ISSUE DIVISION
PATENT OFFICE

ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR THE YEAR

1911

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ANNUAL REPORT

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COMMISSIONER OF PATENTS

FOR THE YEAR

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WASHINGTON
GOVERNMENT PRINTING OFFICE
1912

REPORT
OF THE
COMMISSIONER OF PATENTS
TO CONGRESS
FOR THE YEAR ENDED DECEMBER 31, 1911.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., February 2, 1912.

SIR: I have the honor to transmit through you to the Senate, the Annual Report of the Commissioner of Patents for the calendar year 1911, in compliance with section 494 of the Revised Statues.

Very respectfully,

EDWARD B. MOORE,
Commissioner.

The PRESIDENT OF THE SENATE.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., January 31, 1912.

To the Senate and House of Representatives of the United States of America in Congress assembled:

In compliance with section 494 of the Revised Statutes I have the honor to submit the following report of the business of the Patent Office for the year ended December 31, 1911:

RECEIPTS.

Detailed statement of all moneys received for patents, for copies of records or drawings, or from any source whatever.

Applications:	
Cash received	$1,738,154.00
Cash refunded	6,257.00
Net cash	1,731,897.00
Certificates of deposit	51,685.00
Total cash and certificates	1,783,582.00
Copies:	
Cash received	185,627.52
Cash refunded	7,141.97
Net cash	178,485.55
Certificates of deposit	1,169.65
Total cash and certificates	179,655.20
Recording assignments:	
Cash received	32,398.86
Cash refunded	1,742.63
Net cash	30,656.23
Certificates of deposit	169.00
Total cash and certificates	30,825.23
Official Gazette:	
Cash received	18,650.85
Cash refunded	2.25
Net cash	18,648.60
Certificates of deposit	---------
Total cash and certificates	18,648.60
Registration of prints and labels:	
Cash received	7,649.00
Cash refunded	1,062.00
Net cash	6,587.00
Certificates of deposit	60.00
Total cash and certificates	6,647.00
Court costs:	
Cash received	30.00
Cash refunded	-----
Net cash	30.00
Certificates of deposit	-----
Total cash and certificates	30.00
Cash received	$1,982,510.23
Cash received	1,982,510.23
Cash refunded	16,205.85
Net Cash	1,966,304.38
Certificates of deposit	53,083.65
Total cash and certificates	2,019,388.03

EXPENDITURES.

Amounts expended under the several appropriations from January 1 to December 31.

	1910.	1911.
Salaries	$1,252,450.99	$1,292,716.26
Scientific library	1,743.01	2,253.65
International Union for Protection of Industrial Property	618.36	617.60
Stationery	10,621.36	10,075.40
Postage on foreign matter	1,240.00	935.00
Furniture, carpets, ice, telephones, washing towels, and sundries	14,649.84	17,484.15
Law library	383.18	482.38
Photolithographing:		
Paid contractor	142,837.35	120,128.85
Paid Public Printer for old specifications	.....	16,999.99
Printing and binding, for Official Gazette, indexes, printing specifications, and miscellaneous work	578,263.39	491,976.63
Rent for storage of models and removal of same	2,874.00	.....
Defending suits, etc	30.46	20.00
Total	2,005,711.94	1,953,689.91

RECEIPTS AND EXPENDITURES.

Receipts from all sources	$2,019,388.03
Expenditures	1,953,689.91
Surplus	65,698.12

Surplus earnings of the Patent Office, deposited in the Treasury of the United States.

Amount of total net surplus in Treasury, January 1, 1911	$6,998,227.64
Net surplus for the year 1911	65,698.12
Total net surplus, December 31, 1911	7,063,925.76

SUMMARY OF THE BUSINESS OF THE PATENT OFFICE.

Applications for patents for inventions	67,370
Applications for patents for designs	1,534
Applications for reissues of patents	217
Total	69,121
Applications for registration of trade-marks	7,085
Applications for registration of labels	969
Applications for registration of prints	337
Disclaimers filed	10
Appeals on the merits	1,693
Total	10,094
Patents issued, including designs	33,927
Patents reissued	157
Total	34,084
Trade-marks registered	4,205
Labels registered	659
Prints registered	248
Total	5,112
Patents expired during the year	19,875
Applications forfeited for non-payment of final fees	7,028
Applications allowed, awaiting final fees	11,803
Trade-mark applications passed for publication	4,767

PATENTS ISSUED.

Patents issued to citizens of the United States, with the ratio of population to each patent granted.

States and Territories.	Patents and designs.	One to every—	States and Territories.	Patents and designs.	One to every—
Alabama	163	13,117	Ohio	2,233	2,135
Arkansas	135	11,663	Oklahoma	235	7,052
California	1,575	1,516	Oregon	246	2,735
Colorado	477	1,675	Pennsylvania	2,919	2,626
Connecticut	845	1,319	Rhode Island	315	1,723
Delaware	56	3,613	South Carolina	65	23,314
Florida	104	7,237	South Dakota	109	5,357
Georgia	224	11,647	Tennessee	175	12,484
Idaho	105	3,101	Texas	591	6,593
Illinois	3,172	1,778	Utah	103	3,624
Indiana	726	3,720	Vermont	61	5,835
Iowa	583	3,816	Virginia	226	9,122
Kansas	382	4,427	Washington	410	2,785
Kentucky	240	9,541	West Virginia	196	6,230
Louisiana	165	10,039	Wisconsin	703	3,320
Maine	142	5,228	Wyoming	26	5,614
Maryland	272	4,762			
Massachusetts	1,842	1,828	Alaska	5	12,871
Michigan	1,035	2,715	Arizona	41	4.984
Minnesota	475	4,370	Canal Zone	9	.....
Mississippi	115	15,904	District of Columbia	239	1,385
Missouri	945	3,486	Hawaii	19	10,100
Montana	112	3,357	New Mexico	50	6,546
Nebraska	318	3,749	Philippine Islands	6	.....
Nevada	39	2,099	Porto Rico	7	159,716
New Hampshire	81	5,316	United States Army	10	.....
New Jersey	1,360	1,866	United States Navy	16	.....
New York	4,777	1,908			
North Carolina	191	11,551	Total	[1] 29,801	.....
North Dakota	132	4,372			

[1] Not including 157 reissues and 68 patents withdrawn.

Patents granted to citizens of foreign countries.

Algeria	1	England	935	Netherlands	17	Spain	18
Argentina	6	Ecuador	1	Newfoundland	1	Sweden	92
Austria-Hungary	140	France	347	New South Wales	29	Switzerland	108
Belgium	37	Germany	1,320	New Zealand	38	Tasmania	8
British West Indies	3	Greece	1	Nicaragua	1	Transvaal	28
Brazil	3	Guatemala	1	Norway	36	Venezuela	2
Canada	554	India	6	Orange River Colony	1	Victoria	34
Cape Colony	4	Ireland	11	Persia	1	West Australia	7
Chile	2	Italy	62	Queensland	5		
Colombia	1	Japan	12	Roumania	2	Total	4,058
Cuba	10	Java	1	Russia	49		
Denmark	32	Luxemburg	2	Scotland	47		
Egypt	2	Mexico	42	South Australia	3		

The following tables present a comparative statement of the business of the Patent Office since the enactment of the statute of 1836, and exhibit in detail the business of the Office during the last calendar year:

Comparative statement of the business of the Office from 1837 to 1911, inclusive.

Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.
1837	.....	.....	435	$29,289.08	$33,506.98	.....
1838	.....	.....	520	42,123.54	37,338.92	$4,784.62
1839	.....	.....	425	38,019.97	34,543.51	3,476.46
1840	765	228	473	38,056.51	39,020.67	.....
1841	847	312	495	40,413.01	52,666.87	.....
1842	761	291	517	36,505.63	31,241.43	5,264.20
1843	819	315	519	35,315.81	30,776.96	4,538.85
1844	1,045	380	497	42,509.26	36,344.53	6,164.73
1845	1,246	452	503	51,076.14	39,395.65	11,680.49
1846	1,272	448	638	50,264.16	46,158.71	4,105.45
1847	1,531	533	569	63,111.19	41,878.35	21,232.84
1848	1,628	607	653	67,576.69	58,905.84	8,670.85
1849	1,955	595	1,077	80,752.78	77,716.44	3,036.34
1850	2,193	602	993	86,927.05	80,100.95	6,826.10
1851	2,258	760	872	95,738.61	86,916.93	8,821.68
1852	2,639	996	1,019	112,056.34	95,916.91	16,139.43
1853	2,673	901	961	121,527.45	132,869.83	.....
1854	3,324	868	1,844	163,789.84	167,146.32	.....
1855	4,435	906	2,013	216,459.35	179,540.33	36,919.02
1856	4,960	1,024	2,505	192,588.02	199,931.02	.....
1857	4,771	1,010	2,896	196,132.01	211,582.09	.....
1858	5,364	943	3,710	203,716.16	193,193.74	10,522.42
1859	6,225	1,079	4,538	245,942.15	210,278.41	35,663.74
1860	7,653	1,084	4,819	256,352.59	252,820.80	3,531.79
1861	4,643	700	3,340	137,354.44	221,491.91	.....
1862	5,038	824	3,521	215,754.99	182,810.39	32,944.06
1863	6,014	787	4,170	195,593.29	189,414.14	6,179.15
1864	6,972	1,063	5,020	240,919.98	229,868.00	11,051.98
1865	10,664	1,932	6,616	348,791.84	274,199.34	74,592.50
1866	15,269	2,723	9,450	495,665.38	361,724.28	133,941.10
1867	21,276	3,597	13,015	646,581.92	639,263.32	7,318.60

Comparative statement of the business of the Office from 1837 to 1911, inclusive—Continued.

Year.	Applications.	Caveats filed.	Patents and reissues.	Cash received.	Cash expended.	Surplus.
1868	20,445	3,705	13,378	$681,565.86	$628,679.77	$52,886.09
1869	19,271	3,624	13,986	693,145.81	486,430.74	206,715.07
1870	19,171	3,273	13,321	669,456.76	557,147.19	112,309.57
1871	19,472	3,366	13,033	678,716.46	562,091.64	116,624.82
1872	18,246	3,090	13,590	699,726.39	665,595.00	34,131.39
1873	20,414	3,248	12,864	703,191.77	691,178.98	12,012.79
1874	21,602	3,181	13,599	738,278,17	679,288.41	58,959.76
1875	21,638	3,094	14,837	743,453.36	721,657.71	21,795.65
1876	21,425	2,697	15,595	757,987.65	652,542.60	105,445.05
1877	20,308	2,809	14,187	732,342.85	613,152.62	119,190.23
1878	20,260	2,755	13,444	725,375.55	593,082.89	132,292.66
1879	20,059	2,620	13,213	703,931.47	529,638.97	174,292.50
1880	23,012	2,490	13,947	749,685.32	538,865.17	210,820.15
1881	26,059	2,406	16,584	853,665.89	605,173.28	248,492.61
1882	31,522	2,553	19,267	1,009,219.45	683,867.67	325,351.78
1883	34,576	2,741	22,383	1,146,240.00	675,234.86	471,005.14
1884	35,600	2,582	20,413	1,075,798.80	970,579.76	105,219.04
1885	35,717	2,552	24,233	1,188,089.15	1,024,378.85	163,710.30
1886	35,968	2,513	22,508	1,154,551.40	992,503.45	162,047.95
1887	35,613	2,622	21,477	1,144,509.60	994,472.22	150,037.38
1888	35,797	2,251	20,506	1,118,516.10	973,108.78	145,407.32
1889	40,575	2,481	24,158	1,281,728.05	1,052,955.96	228,772.09
1890	41,048	2,311	26,292	1,340,372.66	1,099,297.74	241,074.92
1891	40,552	2,408	23,244	1,271,285.78	1,139,713.35	131,572.43
1892	40,753	2,290	23,559	1,286,331.88	1,110,739.24	175,592.59
1893	38,473	2,247	23,769	1,242,871.64	1,141,038.45	101,833.19
1894	38,439	2,286	20,867	1,187,439.58	1,100,047.12	87,392.46
1895	40,680	2,415	22,057	1,245,246.93	1,106,389.49	138,857.44
1896	43,982	2,271	23,373	1,324,059.83	1,113,413.71	210,646.12
1897	47,905	2,176	23,794	1,375,641.72	1,122,843.13	252,798.59
1898	35,842	1,659	22,267	1,137,734.48	1,136,196.20	1,538.28
1899	41,443	1,716	25,527	1,325,457.03	1,211,783.73	113,673.30
1900	41,980	1,731	26,499	1,350,828.53	1,260,019.62	90,808.91
1901	46,449	1,842	27,373	1,449,398.16	1,297,385.64	152,012.52
1902	49,641	1,851	27,886	1,552,859.08	1,393,345.54	159,513.54
1903	50,213	1,771	31,699	1,642,201.81	1,448,645.81	193,156.00
1904	52,143	1,808	30,934	1,657,326.53	1,476,000.38	181,326.15
1905	54,971	1,896	30,399	1,806,758.14	1,479,633.22	327,124.92
1906	56,482	1,885	31,965	1,790,921.38	1,554,891.20	236,030.18
1907	58,762	1,967	36,620	1,910,618.14	1,631,458.36	279,159.78
1908	61,475	2,110	33,682	1,896,847.67	1,712,303.42	184,544.25
1909	65,839	1,948	37,421	2,042,828.14	1,955,151.14	87,677.00
1910	64,629	970	35,930	2,025,536.69	2,005,711.94	19,824.75
1911	69,121	.....	34,084	2,019,388.03	1,953,689.91	65,698.12

Statement showing the number of the first patent, design patent, and reissued patent, and the number of the first certificate of registration of a trade-mark, label, and print issued in each calendar year since July 28, 1836, when the present series of numbers of letters patent commenced, together with the total number of each issued during the year.

[The number of patents granted prior to the commencement of this series of numbering (July 28, 1836) was 9,957.]

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues	Trade-marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-marks.	Labels.	Prints.	Total certificates.
1836 (July 28)	1						109							
1837	110						436							
1838	546		1				515		6					
1839	1,061		7				404		13					
1840	1,465		20				458		10					
1841	1,923		30				490		6					
1842	2,413		36				488		13					
1843	2,901	1	49				494	14	11	519				
1844	3,395	15	60				478	12	7	497				
1845	3,873	27	67				475	17	11	503				
1846	4,348	44	78				566	59	13	638				
1847	4,914	103	91				495	60	14	569				
1848	5,409	163	105				584	46	23	653				
1849	5,993	209	128				988	49	30	1,067				
1850	6,981	258	158				884	83	26	993				
1851	7,865	341	184				757	90	25	872				
1852	8,622	431	209				890	109	20	1,019				
1853	9,512	540	229				846	86	29	961				
1854	10,358	626	258				1,759	57	28	1,844				
1855	12,117	683	286				1,892	70	51	2,013				
1856	14,009	753	337				2,315	107	83	2,505				
1857	16,324	860	420				2,686	113	97	2,896				
1858	19,010	973	517				3,467	102	126	3,695				
1859	22,477	1,075	643				4,165	108	231	4,504				
1860	26,642	1,183	674				4,363	183	232	4,778				
1861	31,005	1,366	1,106				3,040	142	147	3,329				
1862	34,045	1,508	1,253				3,221	195	116	3,532				
1863	37,266	1,703	1,369				3,781	176	227	4,184				
1864	41,047	1,879	1,596				4,638	139	248	5,025				

Statement showing the number of the first patent, design patent, and reissued patent, etc.—Continued.

Calendar year.	Number of first patent and certificate issued in each calendar year.						Number of patents and certificates of registration issued during each calendar year.							
	Patents.	Designs.	Reissues.	Trade-Marks.	Labels.	Prints.	Patents.	Designs.	Reissues.	Total patents.	Trade-Marks.	Labels.	Prints.	Total certificates.
1865	45,685	2,018	1,844	.....	.....	.....	6,099	221	296	6,616	.....	.....	.....	.....
1866	51,784	2,239	2,140	.....	.....	.....	8,874	294	290	9,458	.....	.....	.....	.....
1867	60,658	2,533	2,430	.....	.....	.....	12,301	325	400	13,026	.....	.....	.....	.....
1868	72,959	2,858	2,830	.....	.....	.....	12,544	446	420	13,410	.....	.....	.....	.....
1869	85,503	3,304	3,250	.....	.....	.....	12,957	506	534	13,997	.....	.....	.....	.....
1870	98,460	3,810	3,784	1	.....	.....	12,157	737	439	13,333	121	.....	.....	121
1871	110,617	4,547	4,223	122	.....	.....	11,687	905	464	13,056	486	.....	.....	486
1872	122,304	5,452	4,687	608	.....	.....	12,200	884	529	13,613	491	.....	.....	491
1873	134,504	6,336	5,216	1,099	.....	.....	11,616	747	501	12,864	492	.....	.....	492
1874	146,120	7,083	5,717	1,591	1		12,230	886	483	13,599	559	232	.....	791
1875	158,350	7,969	6,200	2,150	233	First print registered Mar. 7, 1893.	13,291	915	631	14,837	1,138	232	.....	1,370
1876	171,641	8,884	6,831	3,283	465		14,172	802	621	15,595	959	472	.....	1,431
1877	185,813	9,686	7,452	4,247	937		12,920	699	568	14,187	1,216	392	.....	1,608
1878	198,733	10,385	8,020	5,463	1,329		12,345	590	509	13,444	1,455	492	.....	1,947
1879	211,078	10,975	8,529	6,918	1,821		12,133	592	488	13,213	872	355	.....	1,227
1880	223,211	11,567	9,017	7,790	2,176		12,926	515	506	13,947	349	203	.....	552
1881	336,137	12,082	9,523	8,139	2,379		15,548	565	471	16,584	834	202	.....	1,036
1882	251,685	12,647	9,994	8,973	2,581		18,135	861	271	19,267	947	304	.....	1,251
1883	269,820	13,508	10,265	9,920	2,885		21,196	1,020	167	22,383	902	906	.....	1,808
1884	291,016	14,528	10,432	10,822	3,791		19,147	1,150	116	20,413	1,021	513	.....	1,534
1885	310,163	15,678	10,548	11,843	4,304		23,331	773	129	24,233	1,067	391	.....	1,458
1886	333,494	16,451	10,677	12,910	4,695		21,797	595	116	22,508	1,029	378	.....	1,407
1887	355,291	17,046	10,793	13,939	5,073		20,429	949	99	21,477	1,133	380	.....	1,513
1888	375,720	17,995	10,892	15,072	5,453		19,585	835	86	20,506	1,059	327	.....	1,386
1889	395,305	18,830	10,978	16,131	5,780		23,360	723	75	24,158	1,229	319	.....	1,548
1890	418,665	19,553	11,053	17,360	6,099		25,322	886	84	26,292	1,415	304	.....	1,719
1891	443,987	20,439	11,137	18,775	6,403		22,328	836	80	23,244	1,762	137	.....	1,899
1892	466,315	21,275	11,217	20,537	6,540		22,661	817	81	23,559	1,737	[1] 6	.....	1,743
1893	488,976	22,092	11,298	22,274	None.	1	22,768	902	99	23,769	1,677	None.	2	1,679
1894	511,744	22,994	11,397	23,951	None.	3	19,875	928	64	20,857	1,806	None.	4	1,810
1895	531,619	23,922	11,461	25,757	None.	7	20,883	1,115	59	22,057	1,829	None.	3	1,832
1896	552,502	25,037	11,520	27,586	6,546	10	21,867	1,445	61	23,273	1,813	1	32	1,846
1897	574,369	26,482	11,581	29,399	6,547	42	22,098	1,631	65	23,794	1,671	14	16	1,701
1898	596,467	28,113	11,646	31,070	6,561	58	20,404	1,803	60	22,267	1,238	200	35	1,473
1899	616,871	29,916	11,706	32,308	6,761	93	23,296	2,139	92	25,527	1,649	511	100	2,260
1900	640,167	32,055	11,798	33,957	7,272	193	24,660	1,758	81	26,499	1,721	737	93	2,551
1901	664,827	33,813	11,879	35,678	8,009	286	25,558	1,734	81	27,373	1,928	878	159	2,965
1902	690,385	35,547	11,960	37,606	8,887	445	27,136	640	110	27,886	2,006	767	158	2,931
1903	717,521	36,187	12,070	39,612	9,654	603	31,046	536	117	31,699	2,186	990	270	3,446
1904	748,567	36,723	12,189	41,798	10,644	873	30,267	557	110	30,934	2,158	1,114	297	3,569
1905	778,834	37,280	12,299	43,956	11,758	1,170	29,784	486	129	30,399	4,490	830	359	5,679
1906	808,618	37,766	12,428	48,446	12,588	1,529	31,181	625	159	31,965	10,568	709	656	11,933
1907	839,799	38,391	12,587	59,014	13,297	1,874	35,880	589	151	36,620	7,878	667	315	8,860
1908	875,679	38,980	12,738	66,892	13,964	2,189	32,757	757	168	33,682	5,191	618	220	6,029
1909	908,436	39,737	12,906	72,083	14,582	2,409	36,574	687	160	37,421	4,184	492	148	4,824
1910	945,010	40,424	13,066	72,267	15,074	2,557	35,168	639	123	35,930	4,239	370	120	4,729
1911	980,178	41 063	13,189	80,506	15,444	2,677	32,917	1,010	157	34,084	4,205	659	248	5,112

[1] Registration of labels practically suspended May 27, 1891, under decision of the United States Supreme Court in *Higgins et al.* v. *Keuffel et al.* (55 O. G., 1139) with the registration of No. 6,545, June 14, 1892. Resumed June 9, 1896, with the registration of No. 6,546.

Expenditures for photolithographic and photographic work since 1906–7.

Fiscal year.	Contractor.	Price per page.				Total.
		Current issue.	Reproduction of exhausted copies.	Library edition.	Photographic copies.	
1906-1907	Norris Peters Co.	[1] $0.80 [2] .65	.....	.....	.....	$140,000.00
	Norris Peters Co.	.....	[3] $0.57 [4] .85	.....	.....	
	A. B. Graham Co.	.....	.....	[5] $1.22	.....	
	E. L. Parker	.....	.....	.....	[6] $0.08 [7] .13	
1907-1908	Norris Peters Co.	[1] .77 [2] .64	.....	.....	.....	140,000.00
	J. A. Eckert	.....	[3] .50 [4] .67	.....	.....	
	Columbia Planograph Co.	.....	.....	[5] 1.15	.....	
	H. A. Farnham	.....	.....	.....	[8] .09 [7] .13	
1908-1909	Norris Peters Co.	[1] .71½ [2] .57½	.....	.....	.....	140,000.00
	Sackett & Wilhelms Co.	.....	Spec. [3] .42½ [4] .53 Drg. [3] .43½ [4] .55	.....	.....	
	Columbia Planograph Co.	.....	.....	[5] .98	.....	
	F. W. Ernst	.....	.....	.....	[8] .12	
	C. Parker	.....	.....	.....	[7] .16	

Expenditures for photolithographic and photographic work since 1906-7—Continued.

Fiscal year.	Contractor.	Price per page. Current issue.	Reproduction of exhausted copies.	Library edition.	Photographic copies.	Total.
1909-1910	A. B. Graham Co	[1]$0.74				$140,000.00
	A. B. Graham Co			[5]$1.00		
	Norris Peters Co	[2].61				
	Sackett & Wilhelms Co		[3]$0.44½ [4].57			
	F. W. Ernst				[6]$0.12	
	Leet Brothers				[7].15	
1910-1911	Norris Peters Co	[1].79				140,000.00
	Webb & Bocorselski	[2].52				
	Sackett & Wilhelms Co		[3].49½ [4].58			
	Sackett & Wilhelms Co			[5].95		
	Leet Bros				[8].11½ [7].11½	
1911-1912	Columbia Planograph Co	[1].73 [10].50				[9]140,000.00
	Sackett & Wilhelms Co		[3].50½ [4].60			
	Sackett & Wilhelms Co			[5].89		
	F. W. Ernst				[8].09¾ [7].10¾	

[1] For 100 thin, 2 thick, and 1 bond copies.
[2] For 50 thin, 2 thick, and 1 bond copies of trade-marks and designs.
[3] For 50 copies each, mechanical and design patents and trade-marks.
[4] For 100 copies each, mechanical and design patents and trade-marks.
[5] For 150 copies.
[6] Size, 7 x 11 in.
[7] Size, 10 x 15 in.
[8] Size, 8 x 12½ in.
[9] Estimated.
[10] Designs.

Number of patents issued by the United States and foreign countries from the earliest period to December 31, 1911.

[Foreign figures for 1911 estimated.]

Country.	To 1870, inclusive.	1871 to 1911.	Total.	Country.	To 1870, inclusive.	1871 to 1911.	Total.
Argentina	83	9,850	9,933	Luxemburg		9,298	9,298
Australia		10,542	10,542	Malta		88	88
Austria		70,463	70,463	Mauritius	113	288	401
Austria-Hungary	15,350	67,583	82,933	Mexico	22	11,113	11,135
Bahamas		2	2	Netherlands	4,535		4,535
Barbados		147	147	Newfoundland	40	421	461
Belgium	35,044	213,156	248,200	New South Wales	236	11,740	11,976
Bolivia	42	65	107	New Zealand	109	14,345	14,454
Brazil	185	7,489	7,674	Norway	737	23,119	23,856
British Guiana	32	94	126	Paraguay		91	91
British Honduras	1	19	20	Peru		160	160
Canada	4,081	137,325	141,406	Portugal	245	7,165	7,410
Ceylon	58	739	797	Queensland	67	6,368	6,435
Chile	266	2,042	2,308	Russia	1,464	25,453	26,917
Colombia		1,029	1,029	St. Helena		4	4
Congo Free State		244	244	South African Republics		1,262	1,262
Costa Rica		64	64	South Australia	123	6,221	6,344
Cuba		1,300	1,300	Spain		46,915	46,915
Denmark	464	22,559	23,023	Straits Settlements		290	290
Ecuador		10	10	Sweden	1,629	33,696	35,325
Fiji Islands		43	43	Switzerland		53,449	53,449
Finland	112	4,364	4,476	Tasmania	43	2,426	2,469
France	103,934	352,710	456,644	Transvaal		2,900	2,900
Germany	9,996	249,638	259,634	Trinidad	6	220	226
Great Britain	53,408	389,627	443,035	Tunis		861	861
Guatemala		57	57	Turkey		2,060	2,060
Hawaii		148	148	Uruguay		400	400
Hongkong		187	187	Venezuela		244	244
Hungary		50,474	50,474	Victoria	822	12,463	13,285
India	445	11,476	11,921	West Australia		3,524	3,524
Italy and Sardinia	4,723	102,179	106,902				
Jamaica	22	231	253	Total foreign	238,437	2,003,658	2,242,095
Japan		21,191	21,191	United States	120,573	902,478	[1] 1,023,051
Leeward Islands		25	25				
Liberia		2	2	Grand total	359,010	2,906,136	3,265,146

[1] Including 9,957 patents issued prior to July 1, 1836.

The following comparison between the receipts, expenditures, applications filed, issues of the Office, the printed copies sold, copies of records furnished, and the number of employees for the years ended, respectively, December 31, 1899, and December 31, 1911, illustrates the growth of the business of the Patent Office:

Class.	1899	1911	Increase.	Percentage of increase.
Receipts	$1,325,457.03	$2,019,388.03	$693,931.00	52.3
Expenditures	$1,211,783.73	$1,953,689.91	$741,906.18	61.2
Applications (including caveats in 1899)	45,990	77,512	31,522	68.5
Letters patent, design and reissue patents granted, and trade-marks, labels, and prints registered	27,787	39,196	11,409	41
Printed copies of patents sold	1,451,519	2,329,259	877,740	60.4
Price received	$50,201.11	$109,975.75	$59,774.64	119
Words written in copies of records furnished	13,575,650	27,186,100	13,610,450	100.2
Number of employees	663	939	276	41.6

In 1911 there were received 67,370 applications for mechanical patents, 1,534 applications for design patents, 217 applications for reissues of patents, 7,085 applications for registration of trade-marks, 969 applications for registration of labels, and 337 applications for registration of prints. There were 33,927 patents issued, including designs, 157 patents reissued, and 4,205 trade-marks, 659 labels, and 248 prints registered. The number of patents that expired was 19,875. The number of allowed applications awaiting the payment of final fees was 11,803, and the number forfeited for non-payment of the final fees 7,028. The total receipts were $2,019,388.03, the expenditures $1,953,689.91, and the surplus of receipts over expenditures $65,698.12. The total balance to the credit of the Patent Office in the Treasury of the United States on December 31, 1911, was $7,063,925.76.

In proportion to population more patents were issued to citizens of Connecticut than to those of any other State—1 to every 1,319. Next in order are the following: District of Columbia, 1 to every 1,385; California, 1 to every 1,516; Colorado, 1 to every 1,675; Rhode Island, 1 to every 1,723; Illinois, 1 to every 1,778; Massachusetts, 1 to every 1,828; New Jersey, 1 to every 1,866; New York, 1 to every 1,908; Nevada, 1 to every 2,099; Ohio, 1 to every 2,135; Pennsylvania, 1 to every 2,626; Michigan, 1 to every 2,715; Oregon, 1 to every 2,735; Washington, 1 to every 2,785; Idaho, 1 to every 3,101; Wisconsin, 1 to every 3,320; Montana, 1 to every 3,357; Missouri, 1 to every 3,486; Delaware, 1 to every 3,613; Utah, 1 to every 3,624; Indiana, 1 to every 3,720; Nebraska, 1 to every 3,749; Iowa, 1 to every 3,816; Minnesota, 1 to every 4,370; North Dakota, 1 to every 4,372; Kansas, 1 to every 4,427; Maryland, 1 to every 4,762; Arizona, 1 to every 4,984; Maine, 1 to every 5,228; New Hampshire, 1 to every 5,316; South Dakota, 1 to every 5,357; Wyoming, 1 to every 5,614; Vermont, 1 to every 5,835; West Virginia, 1 to every 6,230; New Mexico, 1 to every 6,546; Texas, 1 to every 6,593; Oklahoma, 1 to every 7,052; Florida, 1 to every 7,237; Virginia, 1 to every 9,122; Kentucky, 1 to every 9,541. The fewest patents granted in proportion to the number of inhabitants were in the following States and Territories: Porto Rico, 1 to every 159,716; South Carolina, 1 to every 23,314; Mississippi, 1 to every 15,904; Alabama, 1 to every 13,117; Alaska, 1 to every 12,871; Tennessee, 1 to every 12,484; Arkansas, 1 to every 11,663; Georgia, 1 to every 11,647; North Carolina, 1 to every 11,551; Hawaii, 1 to every 10,100, and Louisiana, 1 to every 10,039.

As to foreign patents, 1,320 were granted to citizens of Germany; 935 to those of England; 554 to those of Canada; 347 to those of France; 140 to those of Austria-Hungary; 108 to those of Switzerland; 98 to those of Sweden; 62 to those of Italy; 49 to those of Russia; 47 to those of Scotland; 42 to those of Mexico; 38 to those of New Zealand; 37 to those of Belgium; 36 to those of Norway; 34 to those of Victoria; 32 to those of Denmark; 29 to those of New South Wales; 28 to those of Transvaal; 17 to those of the Netherlands; 12 each to those of Japan and Spain; 11 to those of Ireland; 10 to those of Cuba; 7 to those of West Australia; 6 each to those of India and Argentina; 6 to those of Queensland; 4 to those of Cape Colony; 3 each to those of British West Indies, Brazil, South Australia, and Tasmania; 2 each to those of Chile, Egypt, Luxemburg, Roumania, and Venezuela, and 1 each to those of Algeria, Colombia, Ecuador, Greece, Guatemala, Java, Newfoundland, Nicaragua, Orange River Colony, and Persia.

CONDITION OF WORK.

There is a steady noticeable improvement in the work being done by the examining corps. The increased efficiency of this body of highly-trained men is undoubtedly due to the material increase of salaries granted by Congress in 1909. I do not believe that there is anywhere in the Government service a more competent, intelligent, or efficient class of employees than can be found in the Patent Office. Owing to the rigid examination necessary to pass in order to enter the examining corps it is made up almost exclusively of men who have graduated from various technical schools and universities, and they nearly all have a knowledge of the law, and many take law courses at the Washington law schools.

Although the salaries have been increased during my incumbency of the office of Commissioner and I have been able by this means to check to a certain degree the great number of resignations, I am still unable to hold as great a percentage of these specially-trained men as is desirable to obtain the best possible aggregate of efficiency. This is due to the attractive offers that these men receive from established law-firms and corporations. There has

been no request, however, during the present year for any increase in the salaries of the examining corps.

CLASSIFICATION OF PATENTS.

In the present appropriation bill I have asked for five additional Examiners to aid in the work of the classification which is now under way. This work should be pushed to a completion as rapidly as possible, owing to the fact that no adequate classification of patents has been made since the Office was established. During the last four years the Division of Classification has been rehabilitated and reorganized, with the result that the work is now about half finished. The work of course progresses slowly, due to the fact that there must be digested not only the great volume of American patents already issued, amounting now to more than one million, but also between two and three millions of foreign patents and about fifty thousand volumes of scientific and technical works in the library of this Bureau. When this work is completed, an enormous benefit will accrue to the inventors and manufacturers of this country and the outside public generally, since the work of examination of applications for patent will be much simplified and such patents as are granted will have a much greater degree of validity attached to them.

GAINS IN EFFICIENCY AND ECONOMY.

Within the year just ended a change has been made in the manner of printing certificates of trademark registration, which has resulted in the saving of between five and six thousand dollars annually. This will be a continual annual saving.

Plans are now in contemplation which will result in a more economical method of publishing the PATENT OFFICE GAZETTE. At this time I am able to say that a saving of between eighty and ninety thousand dollars a year will be made possible, and these contemplated changes will not detract from the efficiency of that publication as a work of reference, but will rather add to it in that respect. It will be less bulky and in its more compact form will be appreciated by those who must economize in shelf-space.

Certain changes have been formulated in the rules of practice relating to the registration of trademarks, and have already taken effect, which accomplish a considerable saving of time to Examiners in searching this large class of applications. Formerly it was necessary for the Examiners to search through 20,000 pending applications, which were in various stages of prosecution. The new rules are the same as now apply to applications for patents—that is, they must be amended within one year from the last Office action or the application becomes abandoned. This will not cause forfeiture or undue hardship, it is believed, because applicants still have the right to file new applications if they desire.

PENDING LEGISLATION.

Among the bills now before the Committee on Patents of the House of Representatives the passage of which is urgently desired for the betterment of conditions in the Patent Office is H. R. 7609, reintroduced by Chairman Oldfield and originally prepared by me, which provides for the amendment of the Revised Statutes concerning appeals within the United States Patent Office. Under the present statutes patent appeals in *ex parte* cases lie from the Primary Examiners to the Board of Examiners-in-Chief, thence to the Commissioner, (the First Assistant Commissioner or the Assistant Commissioner,) and from his decision to the Court of Appeals of the District of Columbia. In interference cases the course of appeals is the same, there being three appeals in each case.

The purpose of the proposed amendment to the statute is to shorten the course of prosecution by the elimination of one of the appeals within the Office. This is designed to be accomplished by combining the Commissioner, First Assistant Commissioner, Assistant Commissioner, and Examiners-in-Chief into a single appellate tribunal, any three of whom shall constitute a quorum, to which all appeals shall lie, whether from a Primary Examiner or from the Examiner of Interferences, and from which appeals would lie to the Court of Appeals of the District of Columbia.

The present course of appeals is not well adapted to the volume of business which the Office is now called upon to handle for the following reasons:

It imposes on applicants an unnecessary amount of delay and expense. The very purpose of the patent system is to place at the service of the public at as early a date as practicable inventions as they are made, and unnecessary delays affect not only applicants but all interested in the industries to which the inventions relate. One appeal within the Office, together with the appeal to the Court of Appeals of the District of Columbia, would seem to be ample, especially in view of the fact that in a suit on a patent a single appeal takes the case from the trial court to the court of appeals. The elimination of one appeal would materially shorten the time required for the ultimate disposal of appealed cases and effect a considerable saving of expense to applicants.

Section 4910 provides for an appeal to the Commissioner in person from the Board of Examiners-in-Chief. The work of the Office and the consequent number of appeals have increased to such an extent that it has become difficult and will soon be impossible for the Commissioner to give to each case the amount of personal attention proper to its disposal.

The Board of Examiners-in-Chief as at present constituted consists of three members, and no provision is made under the present law to supply a temporary vacancy caused by the sickness or absence from other cause of any of the members. The absence of one member often results in an evenly-divided board, with the consequent necessity for a rehearing, and the absence of two members causes an entire suspension of business. With the proposed appellate board the presence of a quorum of three would be practically assured at all times which has

not been the case in numerous instances in the past, owing to frequent absences of a member of the board on account of periods of illness of greater or less duration and also by reason of annual leave and other causes. The work of this tribunal has so greatly increased during the last few years that it is almost impossible for its members to give the thorough joint consideration to each case which it deserves.

The existing trade-mark law provides for appeals from the Examiner of Trade-Marks and from the Examiner of Interferences in trade-mark cases directly to the Commissioner, (First Assistant or Assistant Commissioner.) From these tribunals appeal lies to the Court of Appeals of the District of Columbia, as in patent cases. The amendment submitted merely substitutes the proposed board of appeals for the Commissioner as the appellate tribunal of the Office in cases relating to trade-marks, making the course of appeals in this class of cases conform to the course of appeals recommended above in cases involving applications for patents.

These changes in the course of appeals would not only have the effect of expediting the prosecution of applications on appeal, but the elimination of an appeal would be a saving to the inventors of one appeal fee, the attorneys' fees, and other expenses incident thereto. Furthermore, having but one appeal within the Office in lieu of two would result in giving greater stability to the decisions of the Office tribunals and would also obviate any want of comity that has at times existed in the past between the decisions of the Commissioner of Patents and the Assistant Commissioner. These proposed changes in the law in no wise affect the present legal status of the Commissioner of Patents, the First Assistant Commissioner, the Assistant Commissioner, or the Examiners-in-Chief.

Bills embracing the substance of this recommendation were introduced by Senator Smoot and were passed by the Senate. No action, however, was taken upon these bills in the House. I most earnestly recommend that these bills be passed in view of the following facts:

It is the practically unanimous opinion of inventors and manufacturers throughout the country that one appeal should be eliminated in the Patent Office in order to save the great cost and loss of time now involved in obtaining a final adjudication and consequent grant of patent.

That no general protest has been lodged and no effective arguments have been made against the passage of the bill.

Scientific journals have favorably commented upon this measure by editorials and otherwise and offered no protest or objection.

That a great amount of time and labor would be saved to the tribunals of the Patent Office. Under the present system the work is done twice to no good effect.

This is an important part of the plan to expedite business and to grant patents to inventors within a reasonable time, which they have demanded and to which they are entitled.

The bill recently reported favorably from the House Committee on Patents now before the House—viz., H. R. 7711—was also prepared by me and was first introduced in the Sixtieth Congress. This bill provides for the amendment of section 4889 of the Revised Statutes and is aimed to safeguard applications for patent from possible mutilation or fraudulent amendment during the pendency in the Patent Office. Certain changes in the phraseology of the statutes are provided by the bill; but the really essential provision is that there shall be required to be filed with an application for patent, in addition to the drawing, two photographic copies of such drawing. This imposes upon every applicant for patent an additional statutory requirement—to wit, to file with each application of which a signed and attested drawing forms part two photographic copies of such signed and attested drawing.

The purposes of this requirement are (1) to guard against and enable the detection of unauthorized changes in the original drawing or abstraction of such drawing and substitution of another; (2) to lesson the danger of serious mistakes on the part of the Office in failing to detect interferences between copending applications for the same invention.

It is proposed to accomplish the first purpose by causing to be filed in secret archives, in charge of the Chief Draftsman, one of these photographic copies, which may serve as a permanent standard of comparison with the pen-and-ink drawing from which the copies that form a part of the patent are taken. At present the drawing when sent to the attorneys' room upon request of any one appearing of record as having an interest in the application might be changed or abstracted and replaced by a corrupt attorney or employee of the Patent Office, leaving no evidence, or at best negative indications, that any unauthorized changes have been made. An illuminative example of what unauthorized changes may be made is found in the case of the Heany patent, No. 872,936, where no drawing was filed originally with the application, but one was filed subsequently, which was later abstracted and replaced by another of entirely different character, the last drawing being the one which now forms a part of the patent. If at the time the Heany application was filed all applicants had been required to file a photographic reproduction of the drawing, the changes could hardly have been made without detection except by the collusion of two or more employees and with great difficulty.

It is proposed to accomplish the second purpose by retaining the second photographic copy of the drawing in the file-wrapper and sending it with the file to the attorneys' room, upon order, or to any other division or any tribunal of the Patent Office, when required, leaving the original drawing in the examining division where the application is classified for examination, or if for any reason it should become necessary to send the original drawing out of the examining division the photographic copy could be retained therein, where it would be

discovered in interference searches. Under the present procedure both drawing and file-wrapper are sent out of the division on attorneys' orders, also when they are placed in interference or are appealed, and the drawing is frequently sent out on orders of the official draftsman or the Chief of the Copy and Manuscript Division for extended periods, amounting in interference proceedings to years. While the drawing is out of the examining division interferences between the application of which it forms a part and other subsequently-filed applications may be overlooked, as the interference search is made by means of the drawing. The memory of the Examiner cannot always be relied upon to recall interfering applications, especially as the *personnel* of the force changes continually.

The size of the sheets upon which the proposed photographic copies shall be made, their character and disposition, may be left to the discretion of the Commissioner of Patents, who may prescribe, subject to the approval of the Secretary of the Interior, all proper requirements, by rule, under the authority of section 483 of the Revised Statutes.

It is very clear that it is desirable for applicants filing applications for patent to accompany the same with photographic copies of the drawings. This has been the opinion of my predecessors in office. Commissioner Butterworth issued an order to this effect, but subsequently revoked it because he was convinced that he could not legally enforce that order without statutory authority. The recent developments in the Patent Office in regard to the tampering with patent records makes it essential that the statute be amended as requested, so as to give statutory authority to the requirement for the photographic copies. It may be said, however, that this is the first time that the records of the Patent Office have been tampered with during its history, covering a period of 121 years, and it is the only patent so tampered with in more than one million patents which have been granted by the United States to date.

H. R. 7710, now before the House Committee on Patents, was prepared by me and legalizes the issuance of certificates of corrections in Letters Patent. Experience has shown that because of errors, either committed in this Office or the Government Printing Office, the printed patent as issued does not always correspond with the record thereof as filed in this Office. The error may be one of punctuation, technical words may be misspelled, and other mistakes may occur which are inevitable when it is necessary to make a printed reproduction of copy which is technical in its character and which oftentimes is very much confused because of the many amendments which have been made thereto. It has long been the practice of the Patent Office to issue certificates of corrections where the mistakes do not constitute a sufficient ground for reissue. Inasmuch as these certificates do not have the positive sanction of law objection is frequently made to them. Many times the Office is put to the expense of a reissue to correct a mistake which could just as well be corrected by a certificate of correction at much less expense to the Government.

I also respectfully recommend the passage of the bill (H. R. 8388) prepared by me and introduced and referred to the Patent Committee of each House of Congress in the Sixty-first Congress and reintroduced by Mr. Oldfield, chairman of the Patent Committee, requiring that an application for patent shall be prosecuted within six months after any action by the Patent Office. The present period within which the applicant is allowed to amend is one year, and under the existing practice there have been many instances of cases being amended just within the one-year limit in order to keep them alive, they thus serving as drag-nets in many cases to catch inventions along similar lines which may be subsequently applied for, thereby involving inventors in expensive interference proceedings. It has been the effort of the Office to get the old cases out of the Office whenever possible consistent with good work. The Office has been severely criticized recently, especially in the last year or two, for allowing applications, particularly those owned by corporations, to rest in the Office for such long periods as to really have the effect of extending the patent period in case such applications are later passed to issue. Instructions have been repeatedly given to the examining corps to as far as possible get rid of all such cases as are delayed intentionally by the applicant or his attorney. Had this bill passed it would have almost entirely overcome that criticism.

Full hearings were given on all these bills by the Patent Committees of the Sixtieth and Sixty-first Congresses, and these bills were prepared by the Office and their passage strongly urged for fully three years by the present administration of the Office. The bill for shortening the period during which amendments may be filed and the bill eliminating the appeal within the Patent Office were opposed before the Patent Committee by certain members of the Patent Bar Association of Washington and a few attorneys not members of that association. Despite this opposition, however, the bills were favorably reported by the committee, but were not reached on the calendar. I respectfully urge that action be taken during the present session looking to the passage of these bills, as under their operation, if they become laws, a marked increase in the efficiency of this Bureau may be expected.

APPEALS.

In connection with the bill H. R. 7609, showing the heavy appeal docket in the Patent Office, for which this bill provides relief, I furnish the following table:

Number of interferences declared during the year	1,523
Decisions of the Examiner of Interferences on priority in interference cases	298
Appeals to Examiners-in-Chief in interference cases	172
Ex parte appeals to Examiners-in-Chief	928
	1,100

Appeals to Commissioner in interference cases	116
Appeals to Commissioner in opposition cases	15
Appeals to Commissioner in cancelation cases	3
Ex parte appeals to Commissioner	164
Interlocutory appeals to Commissioner	220
Ex parte appeals in trade-mark cases	57
	575
Petitions to Commissioner	2,393
	2,968

Appeals to Court of Appeals, District of Columbia:	
Ex parte cases	33
Interference cases	49
Opposition cases	5
Cancelation cases	3
	90

THE CASE OF EVERDING, BARTON, AND HEANY.

In the fall of 1907 my suspicions were aroused as to probable irregularities in Patent No. 872,936 and also as to several applications for patent pending in the name of John Allen Heany, of York, Pa., for improvements in tungsten-lamps.

I personally conducted for some three weeks the investigation as to these matters. I appointed a board consisting of Examiner-in-Chief Frank C. Skinner, Examiner-in-Chief Levin H. Campbell, and Examiner of Classification Eugene D. Sewall, the sessions being held and all the witnesses examined in my private office.

These inquiries resulted in placing the evidence in the hands of the United States district attorney for the District of Columbia, and the same were by him presented to the grand jury, who at the January term, 1908, returned indictments against Henry E. Everding, a patent attorney of Philadelphia, Ned W. Barton, an Assistant Examiner in the Patent Office, and John Allen Heany, inventor, of York, Pa., for forgery and violation of sections 5403 and 5440 of the Revised Statutes, based upon the destruction of certain papers forming parts of original applications for patents filed in the Patent Office by said Heany and the substitution therefor of forged and fraudulent papers. The case came on for trial in the fall of 1908. Barton pleaded guilty and was immediately sentenced to the penitentiary. Everding and Heany stood trial, with the result that in a verdict rendered by the jury December 24, 1908, Everding was convicted and Heany acquitted. Both Everding and Barton served their terms in the penitentiary. The Government was represented at the trial of the criminal case by United States Attorney D. W. Baker, assisted by Jesse C. Adkins and then Principal Examiner F. C. Skinner, the latter two being appointed by the Attorney-General, at my request, to represent the Patent Office.

After the termination of the criminal trial I then issued an order against John Allen Heany, the alleged inventor, to show cause why certain interferences in which his applications were involved should not be dissolved and his applications included therein and also certain other applications also tainted with fraud should not be stricken from the files and treated as a nullity.

At that time, being under appointment by the President as expert attaché to the United States delegation to the Fourth International Conference of American States at Buenos Aires, 1910, and also subsequently and during the period of these later hearings occupying the position, by appointment of the President, as chairman of the American delegation to the Conference at Washington of the International Union for the Protection of Industrial Property, which Conference was wholly placed in my charge by the Secretary of State, and as my whole time was occupied with these and other important duties I assigned the further investigation and the hearings and determination of the questions which would result from my order to Heany to show cause to First Assistant Commissioner Cornelius C. Billings.

This investigation was begun in the summer of 1910 and was carried on for a period of several months, and a great many witnesses were examined. During these hearings the Government was represented by Mr. Jesse C. Adkins, who was continued specially in the case, at my request, by the Attorney-General, and also by Mr. Webster S. Ruckman, Chief Law Clerk of the Patent Office.

The investigation was very thorough and complete, and the conclusions arrived at by Mr. Billings are set forth in a very able decision, which will be found published in the OFFICIAL PATENT OFFICE GAZETTE of the issue of October 24, 1911. The interferences in which the said Heany applications were involved were dissolved and patents to Heany were refused on the ground of fraud.

The conclusions reached by Mr. Billings and expressed in his decision meet my full and unqualified approval, and I wish also to express my appreciation of the very valuable assistance rendered by Messrs. Skinner, Campbell, and Sewall in detecting and bringing to the surface the very craftily disguised fraudulent sheets and inserted matter in these cases.

I wish also to certify in this report to the very able assistance given by Messrs. Adkins and Ruckman to Mr. Billings in conducting the further investigation.

The Department and the Patent Office are to be congratulated at the very satisfactory termination of the criminal case and the Office investigations as well. As I stated in my previous report and also to the press, this is the only case of its kind that has ever occurred in the Patent Office during the 117 years of its history, a very wonderful record for a Bureau, especially in view of the fact that there are so many possible temptations by reason of the great interests passed upon therein.

THE CONFERENCE AT WASHINGTON.

The International Union for the Protection of Industrial Property held its Fourth Amendatory Conference in Washington beginning May 15, 1911, and completed its deliberations by the signing of the Convention of Washington on June 2 of the same year. Congress made two appropriations of $10,000 each for the expenses and entertainment of the delegates of this Conference, at which there were representatives of more than forty nations, including those nations which were adherents to the Treaty of Paris of 1883, and the Pan-American nations, non-adherents, who were invited to send

representatives. I had the honor to bear the commission of the President of the United States as chairman of the American delegation, and the other members on behalf of the United States were Honorable Charles H. Duell, former Commissioner of Patents, ex-justice of the Court of Appeals of the District of Columbia; Robert H. Parkinson, Esq., of Chicago; Frederick P. Fish, Esq., of Boston, and Melville Church, Esq., of Washington, D. C., all of whom are leaders of the patent bar and well-known authorities in patent law and practice.

The Treaty of Paris having provided that the language of these Conferences be in French, that language was used exclusively by the Conference of Washington in all its publications, including reports and propositions submitted. Important conventions affecting changes in both international patent and trade-mark laws were discussed at the Conference, and the final convention was adopted and signed by the delegates, subject to the ratification of their various governments. Aside from the very desirable changes in the laws of nations relating to patents and trade-marks there is another important underlying reason why these conferences are desirable: they bring together men familiar with the subjects to be discussed and who become well acquainted and talk over their differences not only in formal session but in their social intercourse.

The Conference elected as its permanent chairman the Honorable Charlemagne Tower, formerly American Ambassador to Germany. The formal opening session was presided over by me as chairman of the United States delegation, and after addresses by the Secretary of State, Honorable Philander Chase Knox, and the Secretary of the Interior, Honorable Walter Lowrie Fisher, who welcomed the delegates on behalf of this Government, the chair was relinquished to Mr. Tower, who then addressed the Conference. Subsequent deliberations were presided over by the vice-president of the Conference, M. Georges de Ro, of Brussels, Belgium.

It is a great pleasure for me to report that it was announced in formal session by the vice-president, who voiced the unanimous sentiments of the delegates, that this was one of the most successful Conferences of the Union that had ever been held. The French Ambassador, M. Jusserand, the British Ambassador, Mr. Bryce, the Mexican Ambassador, Senor Zamacona, and the Minister of Portugal, Viscount de Alte, also expressed in unstinted terms their great appreciation on behalf of their respective countries at the splendid manner in which the Conference had been entertained by the United States Government.

The resulting treaties are now pending before the Senate of the United States for approval, and I have no hesitancy in expressing the opinion that when approved by this and the other adhering nations these amendments to the Treaty of Paris will result in much lasting benefit to the inventors and manufacturers of this country.

During the Conference I received a cablegram which stated that the German Reichstag had passed a patent law which upheld the treaty between Germany and the United States providing that patents of American inventors should not be revoked by the German Government for failure to work or manufacture the same in Germany within four years, provided, however, the same is manufactured in the United States in the same period of time. This so-called "working clause" is embraced in the laws of nearly all nations; but since the treaty with Germany has been entered into several of them have modified their laws in this respect. This treaty was the result of certain negotiations instituted by me while in Berlin in 1908, while acting under the direction of the Secretary of State. In the following year I again visited Germany in the interest of this treaty and also visited several other countries at the direction of Secretary of State Knox and Assistant Secretary Huntington Wilson, and the result has been the revision of the laws relating to the working clause in Norway, Sweden, and Switzerland, so that the manufacture of patented inventions in these countries by United States citizens is no longer required in order to sustain their patents. It is thought that several other countries will speedily follow this example.

COURT OF PATENT APPEALS.

I wish to express my hearty approval of the efforts of the American Bar Association to obtain legislation looking to the establishment of a court of patent appeals. Legislation to accomplish this end should, in my opinion, become law at the earliest practical moment. A patent is granted by the Government which is effective throughout the United States and Territories. When this patent, however, is involved in a suit which is brought in any judicial district, the final decision, on appeal, is rendered by the circuit court of appeals of that jurisdiction. A decision involving the construction of a patent by the circuit court of appeals of one jurisdiction is effective only for that jurisdiction and has no legal effect in any other of the several circuits, except through comity. There have been in the past decisions rendered by several circuit courts of appeals which are directly opposed to each other. In view of the fact that a patent when issued is effective in all the States and Territories it is very clear that there should be one court of patent appeals whose decisions will control the status of that patent throughout the entire country. The importance of this is evident when it is considered that there are nine circuit courts of appeals and one Court of Appeals of the District of Columbia, and each of which may and often does entertain in some particular a different view from the others with regard to the same patent.

SCIENTIFIC LIBRARY.

I have in mind the thorough reorganization of the Scientific Library of this Bureau. That branch is of very great importance to inventors and the Office, the number of volumes having reached between forty and fifty thousand, all scientific works, which are constantly searched by interested people and the examining corps in the conduct of their

work of examining applications for patents. It is my desire to have thoroughly digested that whole subject-matter, so that it will be readily accessible and will be a saving of much time and expense.

I deem it quite necessary that additional translators should be provided, as the present translator is compelled to do much translating for the various Bureaus of this Department. The present translator is familiar with ten languages and has a working knowledge of half a dozen in addition.

Of course the number of foreign publications and patents increase each year, as a great many nations other than the larger countries, who have had patent systems for many years, are inaugurating them, and we are now receiving patents printed in many languages. It is highly important that assistant translators be provided who can translate these numerous languages in order that the patents may be at once classified and sent to the various examining divisions to be used as references in the examination of applications for patents. Translations are made for inventors and others, and the Office receipts therefor would pay the salaries of this force.

An addition of five Assistant Examiners has been asked of Congress to assist the Librarian in speedily digesting the library material. It is quite necessary that we should have men who possess technical qualifications and knowledge, to some degree, of languages, as many of the works are in foreign tongues.

NEED FOR ADDITIONAL SPACE IN THE PATENT OFFICE.

I have repeatedly in my reports to the Secretary of the Interior and to the Congress urged the necessity for legislation which will relieve the now extremely overcrowded condition of the United States Patent Office. The present Secretary of the Interior and his immediate predecessor also made strong recommendations in their reports to the President that there should be immediate action in this regard. I now wish again to urge in the strongest possible terms that appropriation be made for the building of a new and adequate structure to house this rapidly-growing Bureau.

It is of course well known throughout the country among inventors and manufacturers and the public generally that the present accommodations for the Patent Office are entirely obsolete and inadequate as to both space and equipment, and are so much so as to seriously interfere with the expeditious and careful handling of the work of the Office and a downright hardship to the inventors and the public. Congress has provided more force and larger salaries, but the great present need to-day in this Bureau is more room.

The present structure is not fireproof and is piled high with tons upon tons of inflammable matter comprising the secret archives of the Office. Much of this material is stored in wooden cases and on open shelves, subject to the ravages of time and other destructive agents. There are also recorded in this Office the deeds of all assignments of titles to inventions, which are of the greatest value in determining the ownership of valuable patents and the loss of which by fire or otherwise would be a tremendous blow to the commercial interests of this country.

Bills have been introduced for the erection of a new Patent Office; but probably in view of the then existing deficit in the Treasury it was necessary to refuse the appropriation for this purpose. Conditions, however, have been growing worse and worse, so I can say that we have about reached the limit of congestion. In the effort to obtain more room for the storage of Patent Office records and the transaction of business in the Patent Office rooms in the basement have been cleaned out and floored for the use of examining divisions, and other rooms have been utilized for the storage of records. In order to obtain this room many tons of valuable books and reports were removed from the basement in a rotted condition, owing to the dampness caused by the earth of the court, and the conditions are so deplorable that I think some immediate action should be taken by Congress. The District fire department and other officials have pronounced the building unsafe as to fire, and the engineers of the War Department have said that the walls should be lightened of their great weight, especially in the northwest corner of the building.

A bill was introduced by the late Senator Daniel in the Sixty-first Congress (S. 1629) providing for the erection of a new building for the Patent Office on the property adjoining the Congressional Library on the north. This is a desirable site, as a subway could be arranged which would give the Patent Office access to the Library of Congress and the readers in the Library would have access to the Scientific Library of the Patent Office. That site, too, it is thought, would be very convenient to out-of-town inventors, manufacturers, and attorneys arriving at the Union Station, which is within three squares of the proposed site, and as there are several first-class hotels in the immediate neighborhood it would be an ideal location.

Great Britain and Germany have each been forced within the past five years to provide larger buildings, owing to the great annual growth pertaining to patents, trade-marks, designs, and labels and prints.

I cannot urge too strongly the importance of providing for a new building for the United States Patent Office. The present net surplus in the Treasury of more than seven million dollars would more than pay for the proposed site and the building, and not a single dollar out of the general revenues of the country would have to be appropriated. This surplus was paid in by the inventors and the manufacturers of the country and represents the net earnings of the Patent Office. That it should be expended for the purpose of increasing the efficiency of the Office, which increased efficiency will work largely to the benefit of those who have actually contributed the money, is a proposition which is not only reasonable but just. I respectfully ask that the present Congress take action looking to this result.

Respectfully submitted.

EDWARD B. MOORE,
Commissioner.

ALPHABETICAL LIST

OF

PATENTEES FOR THE YEAR 1911.

[Patentees of Designs, Trade-Marks, Labels, and Prints, and parties who have filed Disclaimers follow this in separate indexes, but precede the Alphabetical List of Inventions.]

[Abbreviations: "Sp."=Monthly Volume of Specifications; "Gaz."=Official Gazette.]

A. Garrison Foundry Company. (See Shaw, Henry C., assignor.)
A. Karlson, Metall. & Maskin Aktiebolag. (See Thors, Karl O. S., assignor.)
A. Leschen & Sons Rope Company. (See Engle, David E., assignor.)
A. Schrader's Son. (See Kraft, Henry P., assignor.)
A. B. Dick Company. (See Brasseur, Ernest J., assignor.)
A. B. Dick Company. (See Dick, Albert B., assignor.)
A. B. Dick Company. (See Edmonds, Samuel O., assignor.)
A. B. Dick Company. (See Pratt, Charles E., assignor.)
A. B. Dick Company. (See Quentell, William P., assignor.)
A. B. Dick Company. (See Quentell and Judge, assignors.)
A. B. Stove Company. (See Berry, Frank K., assignor.)
A. C. Clark & Company. (See Bigalke, Rudolph F., assignor.)
A. F. Meisselbach & Bro. (See Catucci, Pliny, assignor.)
A. G. Jacobs Cotton Transplanter Company. (See Jacobs, Augustus G., assignor.)
A. G. Morse Company. (See Hodgson, Christopher P., assignor.)
A. G. Spalding & Bros. Manf'g Co. (See Reach, Milton B., assignor.)
A. G. Spalding & Bros. Manf'g Co. (See Reach, William F., assignor.)
A. H. Fox Gun Company. (See Russell, Frederick T., assignor.)
A. H. Heisey & Co. (See Sanford, Andrew J., assignor.)
A. J. Logan Company. (See Micon, David, assignor.)
A. L. Haley Architect Incorporated. (See Haley, Arthur L., assignor.)
A. L. Sykes Manufacturing Company, The. (See Sykes, Alexander L., assignor.)
A. M. McPhail Piano Company. (See Blinn, Charles P., assignor.)
A. R. Mosler & Co. (See Mosler, Arthur R., assignor.)
A/S De Forenede Norske Laase- & Beslagfabrikel. (See Moe, Thorstein O., assignor.)
A. W. South Manufacturing Company, The. (See South, Augustus W., assignor.)
A'Hearn, Frank M., and P. S. Winter, Greenville, Pa. Boiler-injector check-turret. No. 1,006,709; Oct. 24; Sp. p. 4725; Gaz. vol. 171; p. 842.
Aab, William, New Ulm, Minn., assignor of one-half to W. F. Laudenschlager, Huron, S. D. Carrier system. No. 982,920; Jan. 31; Sp. p. 6028; Gaz. vol. 162; p. 1055.
Aalborg, Christian, Wilkinsburg, Pa., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit-interrupter. No. 1,005,121; Oct. 10; Sp. p. 1175; Gaz. vol. 171; p. 221.
Aardahl, Andrew, White Earth, N. D. Telescopic gun-cleaning rod. No. 1,007,512; Oct. 31; Sp. p. 6511; Gaz. vol. 171; p. 1177.
Aaron, Albert, and A. Oathout, Gloversville, assignors to L. Meyers & Son, New York, N. Y. Button-fastening. No. 1,008,511; Nov. 14; Sp. p. 2000; Gaz. vol. 172; p. 342.
Aaron, Solomon E., Charlestown, Mass. Pumping apparatus. No. 1,012,789; Dec. 26; Sp. p. 5315; Gaz. vol. 173; p. 946.
Aasland, Alfred O., Halstad, Minn. Manure-loader. No. 1,004,616; Oct. 3; Sp. p. 151; Gaz. vol. 171; p. 26.
Aastrom, Henry E., Nicollet, Minn. Draft-equalizer. No. 988,161; Mar. 28; Sp. p. 5122; Gaz. vol. 164; p. 908.
Abarno, Michael, assignor of one-half to E. Dupuy, New York, N. Y. Brick-holdfast. No. 1,012,961; Dec. 26; Sp. p. 5722; Gaz. vol. 173; p. 1004.
Abate, Walter L. (See Kelsey, Edgar A., assignor.)
Abbé, Richard F., New York, N. Y. Grinding-mill. No. 997,592; July 11; Sp. p. 2059; Gaz. vol 168; p. 368.
Abbey, Eddie G., Monett, Mo. Music-leaf turner. No. 1,011,895; Dec. 19; Sp. p. 3367; Gaz. vol. 173; p. 591.
Abbot, Marietta M., Murfreesboro, Tenn. Combined pillow-holder and body-prop. No. 982,558; Jan. 24; Sp. p. 5252; Gaz. vol. 162; p. 906.
Abbott, Burl L., Wichita, Kans. Grooving-knife. No. 989,541; Apr. 11; Sp. p. 2662; Gaz. vol. 165; p. 447.
Abbott, Charles C., assignor to Triumph Voting Machine Company, Pittsfield, Mass. Grouping mechanism for voting-machines. No. 980,390; Jan. 3; Sp. p. 431; Gaz. vol. 162; p. 75.
Abbott, Charles C., assignor to Triumph Voting Machine Company, Pittsfield, Mass. Counter-operating mechanism. No. 999,621; Aug. 1; Sp. p. 835; Gaz. vol. 169; p. 146.
Abbott, Edward L., Washington, D. C. Metal plate. No. 988,921; Apr. 4; Sp. p. 1316; Gaz. vol. 165; p. 211.
Abbott, George N., assignor of one-half to C. F. Sayre, Findlay, Ohio. Glove-turning machine. No. 993,937; May 30; Sp. p. 6649; Gaz. vol. 166; p. 1198.
Abbott, Henry C., Launceston, Tasmania, Australia. Attachment for register-grates for the purpose of regulating the uptake-draft. No. 1,009,619; Nov. 21; Sp. p. 4418; Gaz. vol. 172; p. 761.
Abbott, Julian A. (See Butler and Abbott.)
Abbott, William G., Jr., Schenectady, N. Y., assignor to General Electric Company. Method of and apparatus for the treatment of lamp-filaments. No. 1,011,396; Dec. 12; Sp. p. 2238; Gaz. vol. 173; p. 382.
Abbott, William W., Ingram, Pa. Coupling. No. 1,009,458; Nov. 21; Sp. p. 4112; Gaz. vol. 172; p. 709.
Abel, Arthur, Tarrytown, N. Y. Knife. No. 1,000,874; Aug. 15; Sp. p. 3574; Gaz. vol. 169; p. 642.
Abel, Edwin F., Jr., *et al.* (See Pile, Henry, assignor.)
Abel, George H., Jr., assignor of one-fourth to T. B. Wylie, Pittsburgh, Pa. Bracket. No. 1,011,302; Dec. 12; Sp. p. 2042; Gaz. vol. 173; p. 351.
Abell, Rollin, Boston, Mass. Speedometer. No. 990,945; May 2; Sp. p. 253; Gaz. vol. 166; p. 44.
Abendroth Brothers. (See Mersereau, Jacob, assignor.)
Abendroth, Louis, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Impact-fuse. No. 988,846; Apr. 4; Sp. p. 1177; Gaz. vol. 165; p. 188.
Aber, David L., Pittsburg, Pa. Vaginal syringe. No. 989,550; Apr. 18; Sp. p. 2697; Gaz. vol. 165; p. 481.
Abercrombie, Charles M., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Hemstitch sewing-machine. No. 1,012,182; Dec. 19; Sp. p. 4020; Gaz. vol. 173; p. 692.
Abercrombie and Fitch Co. (See Fitch, Ezra H., assignor.)
Abercrombie, Willford F., Allen, Okla. Cultivator. No. 981,600; Jan. 17; Sp. p. 3209; Gaz. vol. 162; p. 545.
Åberg, Oscar G., assignor to C. A. Hult, Stockholm, Sweden. Liner for centrifugal drums. No. 985,876; Mar. 7; Sp. p. 247; Gaz. vol. 164; p. 40.
Abernathy, Arthur W., Champaign, Ill. Vehicle-wheel. No. 993,332; May 23; Sp. p. 5345; Gaz. vol. 166; p. 958.

Alphabetical list of patentees—Continued.

Abitbol, Samuel, and M. H. Tablas, New Bedford, Mass. Vegetable crusher and strainer. No. 1,001,235; Aug. 22; Sp. p. 4385; Gaz. vol. 169; p. 797.
Ableman, Ephraim A., Gheen, Minn. Penholder. No. 991,813; May 9; Sp. p. 2112; Gaz. vol. 166; p. 378.
Ablett, Charles. (See Oulton, Ablett, and Lightfoot.)
Abolt, Angeline, Terre Haute, Ind. Kitchen-cabinet. No. 982,777; Jan. 31; Sp. p. 5703; Gaz. vol. 162; p. 1007.
Aborn, Edward, East Orange, N. J. Coffee-percolator. No. 1,005,096; Oct. 3; Sp. p. 1120; Gaz. vol. 171; p. 189.
Abraham, Charles, Richfield, N. J. Hotbed. No. 992,529; May 16; Sp. p. 3655; Gaz. vol. 166; p. 656.
Abraham, Herbert, Boundbrook, N. J. Testing-machine for plastic substances. No. 989,471; Apr. 11; Sp. p. 2487; Gaz. vol. 165; p. 422.
Abraham, Lawrence, New York, N. Y. Attachment for optical instruments. No. 991,591; May 9; Sp. p. 1651; Gaz. vol. 166; p. 303.
Abraham, William, assignor of one-half to H. F. Bartling, Minot, N. D. Window-pane fastener. No. 1,005,404; Oct. 10; Sp. p. 1814; Gaz. vol. 171; p. 323.
Abraham, William J., Canton, Ill., assignor to D. B. Hyde, Beaver, Pa. Dressing-tool for abrading-stones. No. 990,027; Apr. 18; Sp. p. 3722; Gaz. vol. 165; p. 644.
Abrahamson, Nels S., *et al.* (See Wade, William N., assignor.)
Abrahamson, Nils S. (See Master and Abrahamson.)
Abram Cox Stove Company. (See Mott and Whitehead, assignors.)
Abram, John D., Detroit, Mich. Horse-collar. No. 993,137; May 23; Sp. p. 4950; Gaz. vol. 166; p. 896.
Abrams, John A., Wadsworth, Ohio. Supplemental heating attachment for furnaces. No. 1,008,512; Nov. 14; Sp. p. 2001; Gaz. vol. 172; p. 342.
Abrams, John M., Bentley Manor, N. Y. Tire. No. 1,005,122; Oct. 10; Sp. p. 1176; Gaz. vol. 171; p. 221.
Abrams, Victor, assignor to Giant Ladder Co., Chicago, Ill. Sectional scaffold. No. 1,003,407; Sept. 19; Sp. p. 2653; Gaz. vol. 170; p. 489.
Abramsen, Peter B., Knoxville, Pa. Straightening-table. No. 1,003,575; Sept. 19; Sp. p. 3040; Gaz. vol. 170; p. 548.
Abramson, Alfred C. (See Person and Abramson.)
Abramson, Arthur, *et al.* (See Ostman, Joseph O., assignor.)
Abresch, Eugen. (See Schneider, Georg, assignor.)
Abs, Charles P., Hoboken, N. J. Radiator-cap. No. 995,314; June 13; Sp. p. 2605; Gaz. vol. 167; p. 451.
Accola, Lorenz C., La Grange, Mo. Trap. No. 987,530; Mar. 21; Sp. p. 3716; Gaz. vol. 164; p. 664.
Acetylene Apparatus Mfg. Co. (See Rose, Paul A., assignor.)
Acetylene Construction Company. (See Frary, Ernest A. and E. N., assignors.)
Ach, Lorenz, Mannheim, assignor to C. F. Boehringer & Soehne, Mannheim-Waldorf, Germany. Pyroxylin plastic and making same. No. 996,191; June 27; Sp. p. 4606; Gaz. vol. 167; p. 822.
Achard, John W., Philadelphia, Pa. Mechanical movement for end-cell switches. No. 988,534; Apr. 4; Sp. p. 520; Gaz. vol. 165; p. 83.
Achenbach, Mathias, D. Dreifus, and J. Lehmann, Stuttgart, Germany. Ironing-machine. No. 982,778; Jan. 31; Sp. p. 5704; Gaz. vol. 162; p. 1007.
Achert, Frederick, Cincinnati, Ohio. Stipple-grain metal plate for the graphic arts. No. 993,938; May 30; Sp. p. 6652; Gaz. vol. 166; p. 1198.
Acheson, Edward G., Niagara Falls, N. Y. Deflocculation and product thereof. No. 986,793; Mar. 14; Sp. p. 2197; Gaz. vol. 164; p. 382.
Achor, Servetus T., Kennett Square, Pa. Preparing emulsified chocolate. No. 982,779; Jan. 31; Sp. p. 5702; Gaz. vol. 162; p. 1007.
Achor, Servetus T., Kennett Square, Pa. Emulsified chocolate product. No. 983,014; Jan. 31; Sp. p. 6244; Gaz. vol. 162; p. 1086.
Acker, Charles E., Ossining, N. Y., assignor to The Nitrogen Company. Obtaining nitrogen. No. 999,003; July 25; Sp. p. 5280; Gaz. vol. 168; p. 940.
Acker, Charles E., Ossining, N. Y., assignor to The Nitrogen Company. Electrolytic process of producing compounds. (Reissue.) No. 13,316; Nov. 21; Sp. p. 4593; Gaz. vol. 172; p. 791.
Acker, Charles E., Ossining, N. Y., assignor to The Nitrogen Company. Electrolytic process of producing nitrogen compounds. (Reissue.) No. 13,343; Dec. 26; Sp. p. 6004; Gaz. vol. 173; p. 1050.
Acker, Finley. (See Meredith, Glenn, assignor.)
Acker, Julius J., *et al.* (See Bundy, Cyrus L., assignor.)
Acker, Julius J., Horton, Kans. Machine for turning car-axle journals. No. 1,007,412; Oct. 31; Sp. p. 6284; Gaz. vol. 171; p. 1143.
Acker, Julius J., Horton, Kans., assignor of fifty-one one-hundredths to W. P. Murphy, Chicago, Ill., and twenty-four and one-half one-hundredths to C. L. Bundy, Jersey City, N. J. Burglar-proof side-door bracket. No. 982,341; Jan. 24; Sp. p. 4789; Gaz. vol. 162; p. 829.
Acker, William B., Washington, D. C. Tread for boots and shoes. No. 1,003,576; Sept. 19; Sp. p. 3042; Gaz. vol. 170; p. 548.
Acker, William M. (See Shaaber and Acker.)
Ackerman, Albert H., assignor to Aulinwun Novelties Company, Chicago, Ill. Brush. No. 991,124; May 2; Sp. p. 629; Gaz. vol. 166; p. 107.
Ackerman, Charles P., Albion, Nebr. Grading-machine. No. 988,684; Apr. 4; Sp. p. 842; Gaz. vol. 165; p. 136.
Ackerman, Clarence M., New Westminster, British Columbia, Canada. Draft-excluding means for doors. No. 1,009,879; Nov. 28; Sp. p. 4958; Gaz. vol. 172; p. 895.
Ackerman, Edward L., assignor of one-half to C. E. Chamberlin, Detroit, Mich. Latch mechanism. No. 992,530; May 16; Sp. p. 3656; Gaz. vol. 166; p. 656.
Ackerman, Edward L., assignor of one-half to C. E. Chamberlin, Detroit, Mich. Wind-shield. No. 1,010,715; Dec. 5; Sp. p. 706; Gaz. vol. 173; p. 111.
Ackerman, Maurice, Washington, D. C., assignor of thirty one-hundredths to H. Goldman and thirty one-hundredths to S. Koitlen. Embroidering attachment for sewing-machines. No. 983,193; Jan. 31; Sp. p. 6584; Gaz. vol. 162; p. 1145.
Ackermann, Heinrich, Berlin, Germany. Collapsible bed. No. 986,117; Mar. 7; Sp. p. 760; Gaz. vol. 164; p. 123.
Ackerson, Charles L., *et al.* (See Sullivan and Potter, assignors.)
Ackley, David S., Grand Rapids, Mich. Furniture-clamp. No. 987,531; Mar. 21; Sp. p. 3718; Gaz. vol. 164; p. 664.
Ackley, Griffin S., Buffalo, N. Y. Brake mechanism. No. 1,002,551; Sept. 5; Sp. p. 823; Gaz. vol. 170; p. 121.
Ackley, Griffin S., assignor to National Brake Company, Buffalo, N. Y. Brake mechanism. No. 983,596; Feb. 7; Sp. p. 744; Gaz. vol. 163; p. 116.
Ackley, William J., assignor of one-half to Steam Appliance Manufacturing Company and one-half to H. S. Peck, Batavia, N. Y. Vacuum-cleaner. No. 1,004,840; Oct. 3; Sp. p. 638; Gaz. vol. 171; p. 104.
Acme Ball Bearing Company. (See Schatz, Herrman A., assignor.)
Acme Cement Plaster Company. (See Jacobs, Leo, assignor.)
Acme Combination Rule Company. (See Piggott, Thomas K., assignor.)
Acme Hoisting Machinery Company. (See McCune, Frank R., assignor.)
Acme-Keystone Manufacturing Company. (See McCool, William A., assignor.)
Acme Knitting Machine & Needle Company. (See Ames, Arthur N., assignor.)
Acme Manufacturing Company. (See Philbrook and Hersey, assignors.)
Acme Novelty Company. (See Wallace and Martin, assignors.)
Acme Refrigerating Company. (See Boss, Adolphe E., assignor.)
Acme Steel Goods Company. (See Fischer, Max, assignor.)
Acorn Brass Manufacturing Company. (See Thompson, William B., assignor.)
Acorn Motor Car Company, The. (See Patton, Clarence E., assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Arlt, Ferdinand von, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Berthold, Erich, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Erlenbach, Arnold, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Geldermann, Hugo, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Geldermann and Oster, assignors.)
Actien Gesellschaft für Anilin Fabrikation. (See Herzberg, Wilhelm, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Herzberg and Bruck, assignors.)
Actien Gesellschaft für Anilin Fabrikation. (See Herzberg and Lange, assignors.)
Actien Gesellschaft für Anilin Fabrikation. (See Herzberg, Ronus, and Schwabe, assignors.)
Actien Gesellschaft für Anilin Fabrikation. (See Herzberg and Scharfenberg, assignors.)
Actien Gesellschaft für Anilin Fabrikation. (See Jaesschin and Kaltwasser, assignors.)
Actien Gesellschaft für Anilin Fabrikation. (See Polikier, Heinrich, assignor.)
Actien Gesellschaft für Anilin Fabrikation. (See Ullmann, Fritz, assignor.)
Actien Gesellschaft für Anilin Fabrikation of Berlin. (See Haugwitz, Rudolf, assignor.)
Acutt, Renault C., Germiston, Transvaal. Cigar and cigarette tube or holder. No. 1,001,725; Aug. 29; Sp. p. 5390; Gaz. vol. 169; p. 994.
Aczél, Karl A. (See Harris and Aczél.)
Adair, Charles E., assignor to Cyphers Incubator Company, Buffalo, N. Y. Thermostatic controller for fluid-heating systems. No. 982,229; Jan. 24; Sp. p. 4541; Gaz. vol. 162; p. 791.
Adair, Charles E., Leesville, Ohio, assignor, by mesne assignments, to L. S. Bacon, receiver, Washington, D. C. Regulator for incubator-heaters. No. 987,664; Mar. 21; Sp. p. 3997; Gaz. vol. 164; p. 711.
Adam, Carl F. (See Weber, George A., assignor.)

Alphabetical list of patentees—Continued.

Adam, Heinrich O., Dresden, Germany. Device for transporting loads. No. 982,654; Jan. 24; Sp. p. 5430; Gaz. vol. 162; p. 937.
Adam, Heinrich O., Dresden, Germany. Cableway. No. 1,003,083; Sept. 12; Sp. p. 1972; Gaz. vol. 170; p. 342.
Adam, Jacob C., Buffalo, N. Y. Snow-shovel. No. 1,000,875; Aug. 15; Sp. p. 3576; Gaz. vol. 169; p. 642.
Adam, Roman E., Corona, N. Y. Door check and closer. No. 996,389; June 27; Sp. p. 5049; Gaz. vol. 167; p. 889.
Adam, Roman E., Corona, N. Y. Door-closer. No. 997,432; July 11; Sp. p. 1736; Gaz. vol. 168; p. 315.
Adams, Amos R., Bluffton, Ind. Engine. No. 1,005,763; Oct. 10; Sp. p. 2606; Gaz. vol. 171; p. 449.
Adams, Arthur A. (See Stebbins and Adams.)
Adams, Arthur H., London, and M. C. I. Hunter, Bedford, assignors to Adams Manufacturing Company, Limited, London, England. Speed-changing mechanism for motor-cars. No. 1,006,893; Oct. 24; Sp. p. 5167; Gaz. vol. 171; p. 908.
Adams, Arthur J., assignor to Fulton Manufacturing Company, Chicago, Ill. Go-cart. No. 1,009,372; Nov. 21; Sp. p. 3917; Gaz. vol. 172; p. 678.
Adams-Bagnall Electric Company, The. (See Stowe, Bernard A., assignor.)
Adams, Benjamin F. (See Barry, Robert J., assignor.)
Adams, Burton H. and W. C., Decorah, Iowa. Seed-testing cabinet. No. 986,426; Mar. 14; Sp. p. 1421; Gaz. vol. 164; p. 257.
Adams, Cason F., Pavo, Ga. Weeding-hoe. No. 1,006,819; Oct. 24; Sp. p. 4983; Gaz. vol. 171; p. 882.
Adams, Cason F., Pavo, Ga. File. No. 1,006,820; Oct. 24; Sp. p. 4984; Gaz. vol. 171; p. 882.
Adams, Charles B., assignor of one-half to E. E. Wehmann, Charleston, S. C. Propeller-shaft stuffing-box. No. 994,709; June 13; Sp. p. 1311; Gaz. vol. 167; p. 249.
Adams, Charles E., Morrison, Ill. Cleaner for disk harrows. No. 989,748; Apr. 18; Sp. p. 3120; Gaz. vol. 165; p. 548.
Adams, Comfort A., Cambridge, assignor to American Tool & Machine Company, Boston, Mass. Means for controlling electrically-driven centrifugal machines. No. 981,601; Jan. 17; Sp. p. 3210; Gaz. vol. 162; p. 545.
Adams, Daniel W., Glendale Springs, N. C. Apparatus for extinguishing fires. No. 1,003,853; Sept. 19; Sp. p. 3612; Gaz. vol. 170; p. 642.
Adams, Daniel W., Glendale Springs, N. C. Range-finding apparatus. No. 1,003,854; Sept. 19; Sp. p. 3616; Gaz. vol. 170; p. 643.
Adams, Daniel W., Glendale Springs, N. C. Shoulder-bag water-spraying apparatus. No. 1,003,855; Sept. 19; Sp. p. 3618; Gaz. vol. 170; p. 643.
Adams, Daniel W., Glendale Springs, N. C. Horse-pack water-bag spraying apparatus. No. 1,003,856; Sept. 19; Sp. p. 3619; Gaz. vol. 170; p. 643.
Adams, Daniel W., Glendale Springs, N. C. Multimeter surveying instrument. No. 1,003,857; Sept. 19; Sp. p. 3620; Gaz. vol. 170; p. 644.
Adams, Daniel W., Glendale Springs, N. C. Portable fire-shield. No. 1,009,620; Nov. 21; Sp. p. 4419; Gaz. vol. 172; p. 761.
Adams, Daniel W., Glendale Springs, N. C. Range-finder map. No. 1,010,338; Nov. 28; Sp. p. 5892; Gaz. vol. 172; p. 1049.
Adams, De Monthemar, Madelia, Minn. Measuring instrument. No. 1,010,007; Nov. 28; Sp. p. 5231; Gaz. vol. 172; p. 937.
Adams, Earl T. (See White and Adams.)
Adams, Edward M. (See Miller, George H., assignor.)
Adams, Edwin G., Bellaire, Ohio. Surveyor's instrument. No. 999,538; Aug. 1; Sp. p. 683; Gaz. vol. 169; p. 117.
Adams, Emma F., Springfield, Mo. Playing-cards. No. 1,012,574; Dec. 26; Sp. p. 4829; Gaz. vol. 173; p. 871.
Adams, Erye L., Middleton, Idaho. Train-pipe coupling. No. 992,627; May 16; Sp. p. 3863; Gaz. vol. 166; p. 689.
Adams, Fannie O., East Auburn, Cal. Bedclothes-protector. No. 992,101; May 9; Sp. p. 2665; Gaz. vol. 166; p. 474.
Adams, Frank E., Wallasey, England. Machine for joining or seaming the edges of sheet-metal plates. No. 995,649; June 20; Sp. p. 3401; Gaz. vol. 167; p. 599.
Adams, Frank H., Topeka, Kans. Turn-table. No. 1,006,172; Oct. 17; Sp. p. 3526; Gaz. vol. 171; p. 625.
Adams, Fred L., *et al.* (See Smith, Walton D., assignor.)
Adams, George M., Wanette, Okla. Oil-burner. No. 996,824; July 4; Sp. p. 460; Gaz. vol. 168; p. 76.
Adams, H. S. (See Rolle, Herman, assignor.)
Adams, Harry J. (See Adams, Wilson S., assignor.)
Adams, Henry F. (See Sheppard and Adams.)
Adams, Henry R., Bridgeport, Conn. Valve. No. 982,109; Jan. 17; Sp. p. 4313; Gaz. vol. 162; p. 719.
Adams, John, Stroudsburg, Pa. Spike-puller. No. 995,757; June 20; Sp. p. 3647; Gaz. vol. 167; p. 637.
Adams, John B., Laconia, N. H. Resilient-tread wheel. No. 980,855; Jan. 3; Sp. p. 1440; Gaz. vol. 162; p. 231.
Adams, John F., Lohrville, Iowa. Fastening device for storm-sashes. No. 982,169; Jan. 17; Sp. p. 4411; Gaz. vol. 162; p. 739.
Adams, John H., Brooklyn, N. Y. Headlight attachment for automobiles. No. 988,058; Mar. 28; Sp. p. 4927; Gaz. vol. 164; p. 875.
Adams, John H., New Haven, Conn. Automobile-headlight. No. 1,004,953; Oct. 3; Sp. p. 871; Gaz. vol. 171; p. 142.
Adams, John Q., Jamestown, Ohio. Loose-leaf binder. No. 981,602; Jan. 17; Sp. p. 3213; Gaz. vol. 162; p. 546.
Adams, John Q., Westmont, N. J. Funnel. No. 982,757; Jan. 24; Sp. p. 5664; Gaz. vol. 162; p. 970.
Adams, John Q., Westmont, N. J. Signal for funnels. No. 986,535; Mar. 14; Sp. p. 1652; Gaz. vol. 164; p. 294.
Adams, John Q., Westmont, N. J. Feed-bag and holder. No. 1,008,101; Nov. 7; Sp. p. 978; Gaz. vol. 172; p. 157.
Adams, John Q., Westmont, N. J. Feed-bag and holder. No. 1,012,045; Dec. 19; Sp. p. 3712; Gaz. vol. 173; p. 646.
Adams, John S., Sanger, Cal. Ironing-board. No. 1,000,876; Aug. 15; Sp. p. 3577; Gaz. vol. 169; p. 642.
Adams Laundry Machinery Company. (See Mattice, Charles H., assignor.)
Adams, Malcolm G., Parsons, Kans. Flying-machine. No. 1,003,858; Sept. 19; Sp. p. 3624; Gaz. vol. 170; p. 644.
Adams, Malcolm G., Parsons, Kans. Flying-machine. No. 1,003,859; Sept. 19; Sp. p. 3628; Gaz. vol. 170; p. 645.
Adams Manufacturing Company. (See Adams and Hunter, assignors.)
Adams, Matthias J. and P. P., Turkey River, Iowa. Wheel. No. 982,455; Jan. 24; Sp. p. 5054; Gaz. vol. 162; p. 872.
Adams, Matthias J. and P. P., Turkey River, Iowa. Wheel-hub. No. 1,003,577; Sept. 19; Sp. p. 3044; Gaz. vol. 170; p. 549.
Adams, Ora L., Denver, Colo. Saddle-support for motorcycles. No. 1,003,311; Sept. 12; Sp. p. 2469; Gaz. vol. 170; p. 425.
Adams, Otto, assignor to F. S. Phinney, New York, N. Y. Clock. No. 1,009,880; Nov. 28; Sp. p. 4960; Gaz. vol. 172; p. 895.
Adams, Peter P. (See Adams, Matthias J. and P. P.)
Adams-Randall, Charles, New York, N. Y., assignor to Randall Telephone Manufacturing Company, Augusta, Me. Telephone repeating circuits. No. 1,008,880; Nov. 14; Sp. p. 2795; Gaz. vol. 172; p. 470.
Adams-Randall, Charles, New York, N. Y., assignor to Randall Telephone Manufacturing Company, Augusta, Me. Telephone repeating system. No. 1,008,881; Nov. 14; Sp. p. 2798; Gaz. vol. 172; p. 471.
Adams-Randall, Charles, New York, N. Y., assignor to Randall Telephone Manufacturing Company, Augusta, Me. Circuits for telephone repeating systems. No. 1,008,882; Nov. 14; Sp. p. 2800; Gaz. vol. 172; p. 471.
Adams, Ray, *et al.* (See Kessler, Mervin, assignor.)
Adams, Richard F., Palestine, Tex. Automatic oiler. No. 981,737; Jan. 17; Sp. p. 3483; Gaz. vol. 162; p. 590.
Adams, Robert E., Marshalltown, Iowa. Stove. No. 989,937; Apr. 18; Sp. p. 3533; Gaz. vol. 165; p. 614.
Adams, Rush S., *et al.* (See Cave, Frederick C., assignor.)
Adams, Samuel B., Manchester, Ga. Valve-motion. No. 991,186; May 2; Sp. p. 763; Gaz. vol. 166; p. 129.
Adams, Silas, Cleveland, Ohio. Flue-plug. No. 987,099; Mar. 21; Sp. p. 2795; Gaz. vol. 164; p. 515.
Adams, Soren S. (See Peterson, Christen J., assignor.)
Adams, Theodore C., assignor of one-half to S. C. Wagley, Fort Worth, Tex. Saw-set. No. 999,356; Aug. 1; Sp. p. 327; Gaz. vol. 169; p. 57.
Adams, Thomas E., Cleveland, Ohio. Rock-drill. No. 995,210; June 13; Sp. p. 2403; Gaz. vol. 167; p. 417.
Adams, Thomas E., Cleveland, Ohio. Rock-drill. No. 1,006,339; Oct. 17; Sp. p. 3904; Gaz. vol. 171; p. 682.
Adams, Thomas E., Cleveland, Ohio. Driving mechanism for speedometers. No. 1,007,625; Oct. 31; Sp. p. 6757; Gaz. vol. 171; p. 1215.
Adams, Walker S., assignor of one-half to P. D. Dye, Parkersburg, W. Va. Miner's-lamp holder. No. 1,011,003; Dec. 5; Sp. p. 1324; Gaz. vol. 173; p. 210.
Adams, Walter C. (See Adams, Burton H. and W. C.)
Adams, Walter H., Sound Beach, Conn. Reserve emergency-lantern. No. 991,044; May 2; Sp. p. 450; Gaz. vol. 166; p. 78.
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-truck. No. 1,000,480; Aug. 15; Sp. p. 2702; Gaz. vol. 169; p. 501.
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Brake-handle. No. 1,004,519; Sept. 26; Sp. p. 5108; Gaz. vol. 170; p. 899.
Adams, Walter S., assignor to The J. G. Brill Co., Philadelphia, Pa. Car-truck. No. 1,011,303; Dec. 12; Sp. p. 2043; Gaz. vol. 173; p. 351.
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 1,011,704; Dec. 12; Sp. p. 2944; Gaz. vol. 173; p. 492.
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Platform-rail for cars. No. 1,011,705; Dec. 12; Sp. p. 2946; Gaz. vol. 173; p. 492.
Adams, Warrington E., Chicago, Ill. Motor-car. No. 993,939; May 30; Sp. p. 6653; Gaz. vol. 166; p. 1198.
Adams & Westlake Company, The. (See Giese, James A., assignor.)
Adams & Westlake Company, The. (See Hamm, William S., assignor.)
Adams & Westlake Company, The. (See Hamm and Schuetz, assignors.)
Adams & Westlake Company, The. (See Legge, Thomas A., assignor.)

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Adams & Westlake Company, The. (See Legge and Huston, assignors.)
Adams & Westlake Company, The. (See Newpher, Alfred H., assignor.)
Adams, William E., Salem, Mass. Internal-combustion engine. No. 1,001,600; Aug. 29; Sp. p. 5125; Gaz. vol. 169; p. 951.
Adams, William E., Salem, Mass. Power system. No. 1,008,770; Nov. 14; Sp. p. 2587; Gaz. vol. 172; p. 434.
Adams, William E., New York, N. Y. Aeroplane. No. 1,011,139; Dec. 12; Sp. p. 1659; Gaz. vol. 173; p. 293.
Adams, William T., assignor to Reading Hardware Company, Reading, Pa. Door-check. No. 998,732; July 25; Sp. p. 4663; Gaz. vol. 168; p. 845.
Adams, Wilson D., Pleasantville, N. J. Marking and spacing device. No. 1,000,659; Aug. 15; Sp. p. 3125; Gaz. vol. 169; p. 566.
Adams, Wilson S., Lansing, Kans., assignor of one-third to H. J. Adams, Kansas City, Mo. Combined protractor and rule. No. 999,725; Aug. 8; Sp. p. 1052; Gaz. vol. 169; p. 211.
Adamson, Alexander, Akron, Ohio. Vulcanizer-press. No. 988,295; Apr. 4; Sp. p. 1; Gaz. vol. 165; p. 3.
Adamson, Alexander, Akron, Ohio. Collapsible core. No. 1,007,626; Oct. 31; Sp. p. 6759; Gaz. vol. 171; p. 1216.
Adamson, Carl C., Kenmare, N. D. Whip-operating device. No. 1,009,949; Nov. 28; Sp. p. 5095; Gaz. vol. 172; p. 918.
Adamson, Charles E., Buffalo, N. Y. Type-chase. No. 1,000,315; Aug. 8; Sp. p. 2317; Gaz. vol. 169; p. 411.
Adamson, Herbert J. G., assignor of one-half to J. Adamson, Hastings, Hawkes Bay, New Zealand. Lid of cooking-pots and other vessels. No. 993,811; May 30; Sp. p. 6419; Gaz. vol. 166; p. 1157.
Adamson, James. (See Adamson, Herbert J. G., assignor.)
Adamson, Joseph A., Philadelphia, Pa. Box for holding and displaying tapes. No. 985,564; Feb. 28; Sp. p. 5018; Gaz. vol. 163; p. 888.
Adcock, Edward A., assignor to himself and The Pulsometer Engineering Company Limited, Reading, England. Machine or apparatus for the automatic justification of lines of type. No. 1,008,936; Nov. 14; Sp. p. 2903; Gaz. vol. 172; p. 487.
Addicks, Lawrence, Elizabeth, and A. Marks, assignors to United States Metals Refining Company, Chrome, N. J. Casting copper bars, ingots, and other articles. No. 980,584; Jan. 3; Sp. p. 883; Gaz. vol. 162; p. 142.
Addis, Jacob. (See Hengel and Addis.)
Addograph Manufacturing Company. (See Marshall, Holmes, assignor.)
Adelhelm, Charles, and R. Keck, Chicago, Ill. Driving-gear for motor-vehicles. No. 983,417; Feb. 7; Sp. p. 334; Gaz. vol. 163; p. 56.
Adell, Edward. (See Adell, John A. and E.)
Adell, Edward, Orange, Mass. Clamp. No. 993,940; May 30; Sp. p. 6659; Gaz. vol. 166; p. 1199.
Adell, John A., Orange, Mass. Thread-gage. No. 1,002,019; Aug. 29; Sp. p. 6040; Gaz. vol. 169; p. 1093.
Adell, John A. and E., Orange, Mass. Cutting-tool. No. 987,786; Mar. 28; Sp. p. 4279; Gaz. vol. 164; p. 780.
Adelman, Sol, Chicago, Ill. Outlet-box-supporting bracket for electric-wiring fixtures. No. 982,110; Jan. 17; Sp. p. 4315; Gaz. vol. 162; p. 720.
Adelson, Louis S., New York, N. Y. Article-retaining means. No. 981,603; Jan. 17; Sp. p. 3216; Gaz. vol. 162; p. 546.
Adelsperger, Dow L., assignor to The Bauer Brothers Company, Springfield, Ohio. Hulling and grinding machine. No. 989,686; Apr. 18; Sp. p. 2992; Gaz. vol. 165; p. 527.
Ader, William, *et al.* (See Johnson, John W., assignor.)
Adjustable Tablet Company. (See Thompson, Earl, assignor.)
Adkins, Benjaman W. B., Salisbury, Md. Back-band buckle. No. 1,012,575; Dec. 26; Sp. p. 4830; Gaz. vol. 173; p. 871.
Adkins, Joseph H., assignor of one-half to T. G. Walker, Chatham, Va. Lace-cabinet. No. 1,001,797; Aug. 29; Sp. p. 5547; Gaz. vol. 169; p. 1018.
Adler, Aaron A., San Francisco, Cal. Bed-rest. No. 989,888; Apr. 18; Sp. p. 3412; Gaz. vol. 165; p. 596.
Adler, Abraham L., New York, N. Y. Hinge for doors. No. 997,433; July 11; Sp. p. 1737; Gaz. vol. 168; p. 315.
Adler, Berndt O., St. Paul, Minn. Heating apparatus. No. 985,240; Feb. 28; Sp. p. 4302; Gaz. vol. 163; p. 777.
Adler, Christ, Custar, Ohio. Skate-runner. No. 997,030; July 4; Sp. p. 938; Gaz. vol. 168; p. 149.
Adler, Jette, New York, assignor to C. L. Behlert, Brooklyn, N. Y. Combined scarf, shawl, and sweater. No. 1,002,623; Sept. 5; p. 995; Gaz. vol. 170; p. 148.
Adler, Samuel, Vienna, Austria-Hungary. Safety-razor. No. 1,000,877; Aug. 15; Sp. p. 3578; Gaz. vol. 169; p. 642.
Adler, Samuel L., assignor of one-fourth to M. A. Gilleland, Stonewall, Miss. Railway-signal. No. 1,004,131; Sept. 26; Sp. p. 4317; Gaz. vol. 170; p. 768.
Adler, Theodor L. A., assignor of one-half to W. G. Sullivan, Detroit, Mich. Spring construction. No. 991,187; May 2; Sp. p. 765; Gaz. vol. 166; p. 130.
Adolph, Paul P. (See Lichtig and Adolph.)
Adolph, Paul P., New York, N. Y. Water-cooler. No. 1,005,588; Oct. 10; Sp. p. 2257; Gaz. vol. 171; p. 388.
Adolphson, Godfried. (See Onions and Adolphson.)
Adreon, Robert E., assignor to Westinghouse Automatic Air & Steam Coupler Company, St. Louis, Mo. Ball-and-socket pipe-joint. No. 1,001,117; Aug. 22; Sp. p. 4158; Gaz. vol. 169; p. 760.
Adrian Novelty Co. (See Beal and Crandell, assignors.)
Adrian Wire Fence Company. (See Sturtevant, Orange S., assignor.)
Adriance, Benjamin. (See Calleson, Amos, assignor.)
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Clutch mechanism for drawing-presses and the like. No. 984,253; Feb. 14; Sp. p. 2178; Gaz. vol. 163; p. 370.
Adriance, Benjamin, and A. Calleson, Brooklyn, N. Y.; said Calleson assignor to said Adriance. Making bottle-caps. No. 1,002,354; Sept. 5; Sp. p. 407; Gaz. vol. 170; p. 57.
Adsit, Frank W., St. Paul, Minn. Selective lock-out telephone system. No. 986,260; Mar. 7; Sp. p. 1056; Gaz. vol. 164; p. 169.
Adsit, George, assignor to Benjamin Eastwood Company, Paterson, N. J. Quilling-machine. No. 1,005,405; Oct. 10; Sp. p. 1814; Gaz. vol. 171; p. 323.
Adt, John B., Baltimore, Md. Vehicle-wheel. No. 988,685; Apr. 4; Sp. p. 843; Gaz. vol. 165; p. 136.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 987,100; Mar. 21; Sp. p. 2796; Gaz. vol. 164; p. 515.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 991,766; May 9; Sp. p. 2004; Gaz. vol. 166; p. 361.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 994,233; June 6; Sp. p. 270; Gaz. vol. 167; p. 47.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 999,727; Aug. 8; Sp. p. 1056; Gaz. vol. 169; p. 212.
Adt, Leo F., Albany, N. Y. Nose-guard for eyeglasses. No. 1,003,685; Sept. 19; Sp. p. 3284; Gaz. vol. 170; p. 588.
Adt, Leo F., Albany, N. Y. Eyeglass-mounting. No. 1,004,954; Oct. 3; Sp. p. 873; Gaz. vol. 171; p. 142.
Adt, Leo F., Albany, N. Y. Eyeglasses. No. 1,007,321; Oct. 31; Sp. p. 6099; Gaz. vol. 171; p. 1111.
Adt, Leo F., Troy, N. Y. Eyeglasses. No. 999,726; Aug. 8; Sp. p. 1053; Gaz. vol. 169; p. 211.
Adt, Leo F., Troy, N. Y. Nose-guard for eyeglasses. No. 1,006,894; Oct. 24; Sp. p. 5171; Gaz. vol. 171; p. 908.
Advance Bag Company, The. (See Jackson, Charles S., assignor.)
Advance Broom and Manufacturing Company. (See Smith and Beebe, assignors.)
Advance Threshing Company. (See Thomson, Luther M., assignor.)
Ady, J. Clem, *et al.* (See Chown, James V., assignor.)
Adzit, Henry L., and P. Lindquist, Grand Rapids, Mich. Folding chair. No. 1,004,955; Oct. 3; Sp. p. 875; Gaz. vol. 171; p. 143.
Aeling, Edward S., Ringsted, Iowa. Unloading device. No. 995,937; June 20; Sp. p. 4025; Gaz. vol. 167; p. 700.
Aeolian Company. (See Pain, Willard S., assignor.)
Aeolian Company, The. (See Votey, Edwin S., assignor.)
Aeolian Company. (See Waters, Samuel S., assignor.)
Aermotor Company. (See Scholes, Daniel R., assignor.)
Agar Cross & Company Limited. (See Gee, Thomas J., assignor.)
Agee, George S., Malvern, Ark. Edger-table. No. 989,749; Apr. 18; Sp. p. 3122; Gaz. vol. 165; p. 549.
Agner, Clarence F., Stuarts Draft, Va. Hay-tedder attachment for mowing-machines. No. 1,002,552; Sept. 5; Sp. p. 829; Gaz. vol. 170; p. 122.
Agnew, Roe M., Chesaning, Mich. Locking device for drawbridges. No. 983,194; Jan. 31; Sp. p. 6586; Gaz. vol. 162; p. 1146.
Agre, Bernard M. (See Agre, Carl S. and B. M.)
Agre, Carl S. and B. M., Volga, S. D. Windmill. No. 999,188; July 25; Sp. p. 5629; Gaz. vol. 168; p. 1001.
Agrell, Frans G., Stockholm, Sweden. Telephone system. No. 990,468; Apr. 25; Sp. p. 4711; Gaz. vol. 165; p. 828.
Agricultural Machines Improvement Co. (See Leoni, Alphonse M., assignor.)
Aguayo, José M., Artamisa, Cuba. Preserving milk. No. 1,007,046; Oct. 31; Sp. p. 5471; Gaz. vol. 171; p. 1013.
Ahearn, Michael, Denver, Colo. Double-tube core-barrel. No. 982,456; Jan. 24; Sp. p. 5056; Gaz. vol. 162; p. 872.
Ahern, William J., assignor of one-half to A. M. Pitts, Boston, Mass. Insert for concrete construction. No. 1,004,226; Sept. 26; Sp. p. 4522; Gaz. vol. 170; p. 800.
Ahlberg, Karl E., Chicago, Ill. Grinding device. No. 1,010,565; Dec. 5; Sp. p. 362; Gaz. vol. 173; p. 57.
Ahlbrecht, August, Pittsburgh, Pa. Apparatus for propelling vessels. No. 1,010,716; Dec. 5; Sp. p. 708; Gaz. vol. 173; p. 112.
Ahlen, William. (See Williams, Ahlen, and Ross.)
Ahlen, William, Duquesne, Pa. Regenerative-furnace valve. No. 991,592; May 9; Sp. p. 1653; Gaz. vol. 166; p. 304.
Ahlen, William, Duquesne, Pa. Adjustable stop mechanism. No. 999,194; Aug. 1; Sp. p. 1; Gaz. vol. 169; p. 3.

Alphabetical list of patentees—Continued.

Ahlquist, Karl, Rugby, England, assignor to General Electric Company. Method of and apparatus for altering the condition of gases. No. 1,008,576; Nov. 14; Sp. p. 2155; Gaz. vol. 172; p. 367.
Ahrens, Herman C. (See Brunzwick and Ahrens.)
Ahrens, Herman C., Cincinnati, Ohio. Refrigerator track-door. No. 1,012,576; Dec. 26; Sp. p. 4831; Gaz. vol. 173; p. 871.
Ahrens, Otto L., Hamburg, Germany. Preserving meat. No. 1,007,908; Nov. 7; Sp. p. 593; Gaz. vol. 172; p. 92.
Aichele, Albert, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Electrical distance control. No. 992,628; May 16; Sp. p. 3865; Gaz. vol. 166; p. 689.
Aichele, Albert, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Change-speed pulley. No. 998,733; July 25; Sp. p. 4665; Gaz. vol. 168; p. 845.
Aiguier, Edward B., Newark, N. J., assignor to Richardson Manufacturing Company. Safety-catch. No. 980,956; Jan. 3; Sp. p. 1442; Gaz. vol. 162; p. 232.
Aiken, Edward L., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. No. 1,002,479; Sept. 5; Sp. p. 679; Gaz. vol. 170; p. 98.
Aiken, Harold I., San Francisco, Cal. Electrically-controlled clock and time-interval transmitter. No. 996,551; June 27; Sp. p. 5381; Gaz. vol. 167; p. 942.
Aikin, Charles F., Storm Lake, Iowa. Playing-cards. No. 1,004,520; Sept. 26; Sp. p. 5110; Gaz. vol. 170; p. 900.
Aikins, Herbert A., Cleveland, Ohio. Receipt system. No. 994,234; June 6; Sp. p. 273; Gaz. vol. 167; p. 47.
Aine, Harry E., Richmond, Cal. Pipe-winding machine. No. 1,006,173; Oct. 17; Sp. p. 3529; Gaz. vol. 171; p. 625.
Ainslie, Joseph, Leamington, Ontario, Canada. Rotary weeder and cultivator. No. 1,003,408; Sept. 19; Sp. p. 2655; Gaz. vol. 170; p. 489.
Ainsworth, Lucian M., Austin, Tex. Commode-seat. No. 1,004,521; Sept. 26; Sp. p. 5112; Gaz. vol. 170; p. 900.
Air Cooling Refrigerating Company. (See Strother, William M., assignor.)
Air Torpedo Company. (See Berg, John, assignor.)
Air Torpedo Company. (See Weiss, Max, assignor.)
Airesman, Harry D., Somerset, Pa. Plumb-bob. No. 995,938; June 20; Sp. p. 4026; Gaz. vol. 167; p. 700.
Airhart, Noah S., and J. I. Rhea, Trenton, Mo. Vehicle-wheel. No. 989,750; Apr. 18; Sp. p. 3123; Gaz. vol. 165; p. 549.
Airheart, William P., Detroit, Mich. Spring-wheel structure. No. 1,002,110; Aug. 29; Sp. p. 6201; Gaz. vol. 169; p. 1121.
Aitchison, James, London, England. Manufacture of bifocal lenses. No. 993,812; May 30; Sp. p. 6420; Gaz. vol. 166; p. 1157.
Aitken, Alexander, Oudtshoorn, Cape Colony. Pleasure-railway. No. 989,472; Apr. 11; Sp. p. 2491; Gaz. vol. 165; p. 422.
Aitken, Edwin J., Oakland, Cal. Horse-hitch. No. 1,009,032; Nov. 21; Sp. p. 3139; Gaz. vol. 172; p. 557.
Aitken, John C., Woodville, Oreg. Fish-screen. No. 1,012,500; Dec. 19; Sp. p. 4665; Gaz. vol. 173; p. 801.
Aitken, William, Liverpool, England. Telephone instrument. No. 985,120; Feb. 28; Sp. p. 3987; Gaz. vol. 163; p. 735.
Ajax Manufacturing Co., The. (See Blakeslee, John R., assignor.)
Akeley, Carl E., Chicago, Ill., assignor, by mesne assignments, to McElroy Shepherd Company. Producing and depositing plastic or adhesive mixtures. No. 984,254; Feb. 14; Sp. p. 2181; Gaz. vol. 163; p. 370.
Akeley, Carl E., Chicago, Ill., assignor, by mesne assignments, to McElroy Shepherd Company. Apparatus for mixing and applying plastic or adhesive materials. No. 991,814; May 9; Sp. p. 2113; Gaz. vol. 166; p. 378.
Aker, Erdly B. (See Brumbly and Aker.)
Akerlund, Gustaf, assignor to The Gibbs Gas Engine Company, Atlanta, Ga. Gas-producer system. No. 992,840; May 23; Sp. p. 4305; Gaz. vol. 166; p. 793.
Akers, Gus A., assignor of one-fourth to C. H. Smith, Coventry, Colo. Sacking and assorting attachment for potato-harvesters. No. 998,445; July 18; Sp. p. 4015; Gaz. vol. 168; p. 712.
Akers, Henry H., Lamar, assignor to The Akers-Resh Manufacturing Co., Sedalia, Mo. Liquid-fuel burner. No. 982,342; Jan. 24; Sp. p. 4791; Gaz. vol. 162; p. 830.
Akers-Resh Manufacturing Co., The. (See Akers, Henry H., assignor.)
Akin, Allison, East Orange, N. J., assignor to Western Electric Company, New York, N. Y. Fuse. No. 1,011,896; Dec. 19; Sp. p. 3371; Gaz. vol. 173; p. 591.
Akin, Allison R., assignor of four and one-half sixteenths to H. J. Moore and four and one-half sixteenths to F. W. Irvine, Florence, Ala. Heating-stove. No. 1,000,063; Aug. 8; Sp. p. 1767; Gaz. vol. 169; p. 326.
Akin, William, Los Angeles, Cal. Automatic sign-exhibitor. No. 981,830; Jan. 17; Sp. p. 3692; Gaz. vol. 162; p. 624.
Akin, William, Los Angeles, Cal. Gas-heater. No. 991,408; May 2; Sp. p. 1236; Gaz. vol. 166; p. 206.
Akins, James H., Oregon, Ill. Gate-latch. No. 990,511; Apr. 25; Sp. p. 4844; Gaz. vol. 165; p. 844.
Akins, Randall P., assignor to Colorado Iron Works Co., Denver, Colo. Apparatus for dewatering and classifying ores. No. 992,629; May 16; Sp. p. 3869; Gaz. vol. 166; p. 690.
Akron Cultivator Company, The. (See Noaker, Milton K., assignor.)
Akt.-Ges. Hahn für Optik und Mechanik. (See Möller, Carl, assignor.)
Aktiebolaget Baltic. (See Risberg and Johansson, assignors.)
Aktiebolaget Express Separator Emil G. Lind & Co. (See Sundberg, Per T., assignor.)
Aktiebolaget L. M. Ericsson & Co. (See Larsson, Gustaf O., assignor.)
Aktiebolaget Ljungströms Angturbin. (See Ljungström, Birger, assignor.)
Aktiebolaget Ljungströms Ångturbin. (See Ljungström, Fredrik, assignor.)
Aktiebolaget Salenius' Werkstader. (See Salenius, Anders T., assignor.)
Aktiebolaget Separator. (See Forsberg, Erik A., assignor.)
Aktiebolaget Separator. (See Thörn, Folke R. E., assignor.)
Aktiengesellschaft Arnold B. Heine & Co. (See Bosshard, Arnold, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Aichele, Albert, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Güttinger, Heinrich, assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Seidner,
Aktiengesellschaft Mix & Genest, Telephon- und Tele-Michael, assignor.)
graphen Werke. (See Jahn, Stephan, assignor.)
Aktiengesellschaft St. Georgen. (See König, Gottlieb, assignor.)
Alaska Packers Association. (See Munn, William, assignor.)
Albany Foundry Company. (See Gaitley, John E., assignor.)
Albaugh, Ernest R. (See Detrick, Albaugh, Eicher, and Naugle.)
Albaugh, Walter H., Columbus, Ohio. Reinforced-concrete tie. No. 999,139; July 25; Sp. p. 5541; Gaz. vol. 168; p. 985.
Albee, Henry L., East Douglas, Mass. Oil-burner. No. 982,655; Jan. 24; Sp. p. 5433; Gaz. vol. 162; p. 938.
Albenart Company. (See Richards, Arthur W., assignor.)
Alberger, Alvan H., *et al.*, executors. (See Alberger, Louis R.)
Alberger, Blanche D., *et al.*, executors. (See Alberger, Louis R.)
Alberger Condenser Company. (See Alberger, Louis R., assignor.)
Alberger, Louis R., deceased, Greenwich, Conn.; B. D. Alberger, S. C. Ross, New York, and A. H. Alberger, Hamburg, N. Y., executors, assignors to Alberger Condenser Company. Centrifugal or turbine pump. No. 1,009,819; Nov. 28; Sp. p. 4841; Gaz. vol. 172; p. 875.
Alberger, Louis R., deceased, Greenwich, Conn.; B. D. Alberger, S. C. Ross, New York, and A. H. Alberger, Hamburg, N. Y., executors, assignors to Alberger Condenser Company. Automatic temperature control for water-heaters. No. 1,009,820; Nov. 28; Sp. p. 4843; Gaz. vol. 172; p. 876.
Albers, Henry G. and M. L., Brooklyn, N. Y. Body-supporting undergarment. No. 1,007,047; Oct. 31; Sp. p. 5472; Gaz. vol. 171; p. 1013.
Albers, Mary L. (See Albers, Henry G. and M. L.)
Alberse, Peter L. (See Goldberg, Morris, assignor.)
Albert, Abraham, San Francisco, Cal., assignor, by mesne assignments, to Monarch Manufacturing and Supply Company. Electric water-heater. No. 986,037; Mar. 7; Sp. p. 604; Gaz. vol. 164; p. 97.
Albert, Eugen, Munich, Germany. Apparatus for regulating the color-feeding in inking apparatus. No. 984,991; Feb. 21; Sp. p. 3712; Gaz. vol. 163; p. 656.
Albert, Eugen, Munich, Germany. Sliding crank-gear. No. 1,009,621; Nov. 21; Sp. p. 4421; Gaz. vol. 172; p. 762.
Albert and J. M. Anderson Manufacturing Company. (See Andersen, Johan M., assignor.)
Albert, Karl, Wathlingen, near Celle, Germany. Tobacco-box. No. 997,593; July 11; Sp. p. 2060; Gaz. vol. 168; p. 368.
Albert Lea Gas Light Company. (See Dennstedt, Albert L., assignor.)
Albert Pick & Company. (See Mayer, Sigmund, assignor.)
Albertson, Nels P., and H. O. Iverson, Oakes, N. D. Shock-loader. No. 1,009,821; Nov. 28; Sp. p. 4847; Gaz. vol. 172; p. 876.
Albertson, Sherman. (See Spooner and Albertson.)
Albrecht, Adelmer D., Greenville, Ill. Voting-booth. No. 1,005,789; Oct. 17; Sp. p. 2661; Gaz. vol. 171; p. 489.
Albrecht, Christian A., Berlin, Germany, assignor to Mergenthaler Linotype Company, New York, N. Y. Means for leveling multiple-face matrices in typographical composing-machines. No. 1,009,622; Nov. 21; Sp. p. 4421; Gaz. vol. 172; p. 762.
Albrecht, Henry C., Terre Haute, Ind. Gasolene-lamp. No. 991,815; May 9; Sp. p. 2125; Gaz. vol. 166; p. 378.

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Albrecht, William F. (See Shebol and Albrecht.)
Albree, Chester B., assignor to Chester B. Albree Iron Works, Pittsburgh, Pa. Connecting device. No. 1,006,895; Oct. 24; Sp. p. 5172; Gaz. vol. 171; p. 909.
Albree, Edward C., Swampscott, assignor to Albree Self Figuring System Company, Boston, Mass. Cost-accounting system. No. 980,391; Jan. 3; Sp. p. 434; Gaz. vol. 162; p. 75.
Albree Self Figuring System Company. (See Albree, Edward C., assignor.)
Albright, Andrew, Jr., Eatontown, assignor to Rubber & Celluloid Harness Trimming Co., Newark, N. J. Collapsible foil tube. No. 984,636; Feb. 21; Sp. p. 3017; Gaz. vol. 163; p. 534.
Albright, David A., Gainesville, Fla. Aerodrome. No. 994,897; June 13; Sp. p. 1782; Gaz. vol. 167; p. 314.
Albright, John G. (See Rowley and Albright.)
Alcan, Felix, Scranton, Pa. Backing for tiles. No. 984,637; Feb. 21; Sp. p. 3019; Gaz. vol. 163; p. 535.
Alcock, Alfred U., Perth, Western Australia, Australia. Electric process for drying timber. No. 1,007,513; Oct. 31; Sp. p. 6512; Gaz. vol. 171; p. 1178.
Alden, George I., Worcester, Mass., assignor to Otis Elevator Company, Jersey City, N. J. Speed-regulator for plunger-elevators. No. 1,001,118; Aug. 22; Sp. p. 4159; Gaz. vol. 169; p. 761.
Alden, Herbert W., assignor to The Timken Detroit Axle Company, Detroit, Mich. Driving-axle. No. 1,007,260; Oct. 31; Sp. p. 5970; Gaz. vol. 171; p. 1090.
Alden, John, Boise, Idaho. Electric bed-warmer. No. 1,004,956; Oct. 3; Sp. p. 876; Gaz. vol. 171; p. 143.
Alden Type Machine Company. (See Low and Johnson, assignors.)
Alders, Edward, Farmington, Cal. Extension plow attachment for cultivators. No. 1,007,764; Nov. 7; Sp. p. 251; Gaz. vol. 172; p. 40.
Aldred, Alfred E. (See Aldred, Robert J. F. and A. E.)
Aldred, Robert J. F. and A. E., Glencoe, Ontario, Canada. Dough-molding machine. No. 984,521; Feb. 21; Sp. p. 2765; Gaz. vol. 163; p. 495.
Aldred, Robert J. F. and A. E., Glencoe, Ontario, Canada. Dough-handing machine. No. 993,138; May 23; Sp. p. 4955; Gaz. vol. 166; p. 897.
Aldrich, Charles H., and J. K. Bryan, Perth Amboy, N. J. Process and apparatus for purifying acid electrolyte used in refining copper. No. 991,685; May 9; Sp. p. 1863; Gaz. vol. 166; p. 337.
Aldrich, Jane E., administratrix. (See Norton, Gerrit.)
Aldrich, William O., assignor to The Whitin Machine Works, Whitinsville, Mass. Thread-guide. No. 1,001,119; Aug. 22; Sp. p. 4161; Gaz. vol. 169; p. 761.
Aldrich, William O., assignor to The Whitin Machine Works, Whitinsville, Mass. Thread-board. No. 1,004,227; Sept. 26; Sp. p. 4524; Gaz. vol. 170; p. 801.
Alexander, Alexander M., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making knives. No. 1,003,409; Sept. 19; Sp. p. 2657; Gaz. vol. 170; p. 489.
Alexander, Bert R., East Syracuse, N. Y. Aeroplane. No. 1,002,111; Aug. 29; Sp. p. 6202; Gaz. vol. 169; p. 1122.
Alexander, Elmer P., assignor of one-half to J. H. Mann, Lewistown, Pa. Manufacturing hoes. No. 994,492; June 6; Sp. p. 792; Gaz. vol. 167; p. 135.
Alexander Fan & Propeller Company. (See Alexander, John H. C., assignor.)
Alexander H. Revell & Company. (See Reimer, Gustav F., assignor.)
Alexander, Henry. (See Ashlimann, Adolf E., assignor.)
Alexander, James C., Roseburg, Oreg. Combined milk evaporator and drier. No. 986,118; Mar. 7; Sp. p. 762; Gaz. vol. 164; p. 123.
Alexander, James C., Roseburg, Oreg. Separator-bowl. No. 994,553; June 6; Sp. p. 937; Gaz. vol. 167; p. 155.
Alexander, James C., Roseburg, Oreg. Emulsifier. No. 994,554; June 6; Sp. p. 940; Gaz. vol. 167; p. 156.
Alexander, James C., Roseburg, Oreg. Condensing milk. No. 994,555; June 6; Sp. p. 945; Gaz. vol. 167; p. 156.
Alexander, James G., Ames, Iowa. Rake. No. 994,105; June 6; Sp. p. 1; Gaz. vol. 167; p. 3.
Alexander, John F. (See Moore and Alexander.)
Alexander, John H., and W. J. Brinkman, Victoria, British Columbia, Canada. Machine for forming railway-spikes. No. 997,485; July 11; Sp. p. 1838; Gaz. vol. 168; p. 331.
Alexander, John H. C., Berkeley, Cal., assignor to Alexander Fan & Propeller Company. Propeller. No. 1,003,958; Sept. 19; Sp. p. 3878; Gaz. vol. 170; p. 680.
Alexander, Logan, and R. H. Lemmon, Peru, Kans. Wagon-brake. No. 998,825; July 25; Sp. p. 4858; Gaz. vol. 168; p. 877.
Alexander Milburn Company, The. (See Jenkins, Alexander F., assignor.)
Alexander Milburn Company. (See Johnson, Alexander F. J., now Alexander F. Jenkins, by judicial change of name, assignor.)
Alexander, Nathaniel, Lynchburg, Va. Chair. No. 997,108; July 4; Sp. p. 1082; Gaz. vol. 168; p. 175.
Alexander, Truman. (See Shackelford and Alexander.)
Alexander, William, London, England. Rotary engine. No. 1,000,316; Aug. 8; Sp. p. 2319; Gaz. vol. 169; p. 411.
Alexander, William A. (See Bass and Alexander.)
Alexander, William A., Wilkinsburg, Pa. Faucet, spigot, and cock. No. 981,349; Jan. 10; Sp. p. 2693; Gaz. vol. 162; p. 437.
Alexander, William B., Montreal, Quebec, Canada. Aeroplane. No. 994,106; June 6; Sp. p. 4; Gaz. vol. 167; p. 3.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 996,390; June 27; Sp. p. 5050; Gaz. vol. 167; p. 889.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Reinforcer for telephone-circuits. No. 996,391; June 27; Sp. p. 5052; Gaz. vol. 167; p. 890.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Telephone relay and system. No. 996,445; June 27; Sp. p. 5184; Gaz. vol. 167; p. 908.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Manufacturing rotating bodies for high-speed machinery. No. 998,734; July 25; Sp. p. 4667; Gaz. vol. 168; p. 846.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. High-frequency alternator. No. 1,008,577; Nov. 14; Sp. p. 2157; Gaz. vol. 172; p. 367.
Alexeeff, Valerian, Enseli, Persia. Automatic telephone system. No. 991,260; May 2; Sp. p. 921; Gaz. vol. 166; p. 156.
Alfes, Albert J. (See Earnheart, Isaac L., assignor.)
Alfier, John G., and M. J. Maneas, Oakland, Cal. Swimming appliance. No. 998,146; July 18; Sp. p. 3356; Gaz. vol. 168; p. 605.
Alford, Frank R., assignor to Wm. L. Gilbert Clock Company, Winsted, Conn. Spring-testing apparatus. No. 1,007,171; Oct. 31; Sp. p. 5783; Gaz. vol. 171; p. 1057.
Alford, N. A. (See Weathers, David N., assignor.)
Alfson, Andrew, assignor of one-half to J. E. Quin, Chicago, Ill. Gearing. No. 1,004,228; Sept. 26; Sp. p. 4525; Gaz. vol. 170; p. 801.
Algard, James H., and A. Bramer, Watertown, S. D. Frame for gang-plows. No. 997,355; July 11; Sp. p. 1601; Gaz. vol. 168; p. 290.
Alger, Ethan, Lorain, Ohio. Firing mechanism for guns. No. 1,000,317; Aug. 8; Sp. p. 2320; Gaz. vol. 169; p. 412.
Alger, Frederick M., *et al.* (See Ostergren, Oscar P., assignor.)
Alger, Harley C., Chicago Heights, Ill. Feed-water heater. No. 990,028; Apr. 18; Sp. p. 3724; Gaz. vol. 165; p. 644.
Alger, Harley C., Chicago Heights, Ill. Liquid-meter. No. 1,000,973; Aug. 22; Sp. p. 3793; Gaz. vol. 169; p. 709.
Alger, Russell A., *et al.* (See Ostergren, Oscar P., assignor.)
Alkin, Thomas T., Goulburn, New South Wales, Australia. Dental handpiece. No. 1,001,916; Aug. 29; Sp. p. 5823; Gaz. vol. 169; p. 1059.
Alkire, Homer R., Mount Sterling, Ohio. Cultivator. No. 992,630; May 16; Sp. p. 3870; Gaz. vol. 166; p. 690.
All, Henry, and B. M. Buckland, Sultana, Cal. Tie-spacer. No. 984,638; Feb. 21; Sp. p. 3020; Gaz. vol. 163; p. 535.
Allan, James, Omaha, Nebr., assignor to Larsen-Baker Ice Machine Co. Return-bend pipe connection. No. 1,001,798; Aug. 29; Sp. p. 5549; Gaz. vol. 169; p. 1019.
Allan, James H., Hazel Hurst, Pa. Pipe-coupling. No. 987,683; Mar. 21; Sp. p. 4058; Gaz. vol. 164; p. 718.
Allan, William A., Toronto, Ontario, Canada. Rotary engine. No. 1,010,407; Dec. 5; Sp. p. 1; Gaz. vol. 173; p. 3.
Allard, Andrew J., assignor of one-fourth to T. F. Green and one-fourth to D. R. Creecy, Richmond, Va. Electric signaling means. No. 988,162; Mar. 28; Sp. p. 5124; Gaz. vol. 164; p. 908.
Allatt, Thomas, Toronto, Ontario, Canada, assignor of one-fourth to E. S. J. McAllister and one-fourth to R. J. Upton, Portland, Oreg. Mechanism for making paper receptacles. No. 982,780; Jan. 31; Sp. p. 5708; Gaz. vol. 162; p. 1008.
Allbee, Elmer E., Arlington, N. J., and G. E. Hulse, Amityville, N. Y., assignors to The Safety Car Heating & Lighting Company. Hose-coupling. No. 1,000,570; Aug. 15; Sp. p. 2914; Gaz. vol. 169; p. 534.
Allbright-Nell Company. (See Hannaford, Alfred, assignor.)
Allbright-Nell Company, The. (See Kohlhepp, John W., assignor.)
Allbright, William B. (See Kohlhepp, John W., assignor.)
Allèas, Jean M., Boston, Mass. Apparatus for aerial navigation. No. 991,686; May 9; Sp. p. 1867; Gaz. vol. 166; p. 337.
Allegheny Steel Company, The. (See Smith, Archibald, assignor.)
Allegretti, Giocomo, Chicago, Ill. Coupon-card. No. 1,011,706; Dec. 12; Sp. p. 2947; Gaz. vol. 173; p. 493.
Alleman, Leon, Rochester, Pa. Lubricating system. No. 980,178; Jan. 3; Sp. p. 1; Gaz. vol. 162; p. 3.
Allemand, Albert A., Gilroy, Cal. Gang-plow. No. 1,012,577; Dec. 26; Sp. p. 4833; Gaz. vol. 173; p. 872.
Allen, Aaron B., assignor to The Allen Switch Company, Pueblo, Colo. Switch-operating mechanism. No. 980,473; Jan. 3; Sp. p. 634; Gaz. vol. 162; p. 104.

Alphabetical list of patentees—Continued.

Allen, Adolphus M., *et al.* (See Phelps, Frank, assignor.)
Allen, Arthur S., Brookline, Mass., assignor to Philip Ruxton, Incorporated. Collector for printing-presses. No. 1,009,459; Nov. 21; Sp. p. 4113; Gaz. vol. 172; p. 709.
Allen, Charles, New York, N. Y. Bedstead. No. 1,004,957; Oct. 3; Sp. p. 877; Gaz. vol. 171; p. 143.
Allen, Charles F., Los Angeles, Cal. Door for box-cars. No. 993,744; May 30; Sp. p. 6283; Gaz. vol. 166; p. 1134.
Allen, Charles H., Attleboro, Mass. Safety fob attachment. No. 984,339; Feb. 14; Sp. p. 2359; Gaz. vol. 163; p. 399.
Allen, Charles H., Attleboro, Mass. Pin-guard. No. 986,119; Mar. 7; Sp. p. 765; Gaz. vol. 164; p. 123.
Allen, Charles L. (See Luke and Allen.)
Allen, Charles S. (See Post, Fred, assignor.)
Allen, Charles S., and B. F. Croney, Des Moines, Iowa. Feed-water heater and smoke-box protector. No. 989,938; Apr. 18; Sp. p. 3534; Gaz. vol. 165; p. 614.
Allen, Clifford D. (See Sheppe, Eaton, and Allen.)
Allen, Cornelius J., St. Louis, Mo. Mop-wringer. No. 1,004,958; Oct. 3; Sp. p. 878; Gaz. vol. 171; p. 144.
Allen, Edgar W., San Jose, Cal. Coin-controlled chair. No. 988,059; Mar. 28; Sp. p. 4929; Gaz. vol. 164; p. 875.
Allen, Edmund T., Chicago, Ill. Wave-power machine. No. 992,745; May 23; Sp. p. 4101; Gaz. vol. 166; p. 759.
Allen, Ellnathan, Chicago, Ill. Wrench. No. 983,796; Feb. 7; Sp. p. 1152; Gaz. vol. 163; p. 184.
Allen, Eugene S., New York, N. Y. Kitchenette-stove. No. 999,622; Aug. 1; Sp. p. 838; Gaz. vol. 169; p. 146.
Allen, Eugene S., New York, N. Y. Gas-log rest. No. 1,009,212; Nov. 21; Sp. p. 3539; Gaz. vol. 172; p. 620.
Allen Fire Department Supply Company. (See McHardy and Potter, assignors.)
Allen, Frank B. (See Koenman, Konstantin, assignor.)
Allen, Frank B., Salt Lake City, Utah. Clutch-shifting mechanism. No. 980,897; Jan. 10; Sp. p. 1577; Gaz. vol. 162; p. 277.
Allen, Frank B., Salt Lake City, Utah. Clutch-shifting mechanism. No. 987,665; Mar. 21; Sp. p. 3998; Gaz. vol. 164; p. 712.
Allen, Frank B., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 999,728; Aug. 8; Sp. p. 1058; Gaz. vol. 169; p. 212.
Allen, Frank B., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 999,729; Aug. 8; Sp. p. 1065; Gaz. vol. 169; p. 212.
Allen, Fred R., Providence, R. I. Wrench. No. 1,000,878; Aug. 15; Sp. p. 3579; Gaz. vol. 169; p. 643.
Allen, Fred R., Providence, R. I., assignor, by mesne assignments, to National Antislip Clutch Company, Boston, Mass. Friction-coil clutch. No. 989,102; Apr. 11; Sp. p. 1702; Gaz. vol. 165; p. 297.
Allen, Fred R., assignor to E. F. Bowen, Providence, R. I. Surfacing-machine. No. 992,730; May 16; Sp. p. 4057; Gaz. vol. 166; p. 724.
Allen, George E. (See Carter and Haldan, assignors.)
Allen, Harry L., Sherbrooke, Quebec, Canada, assignor to Peerless Jewelry Company. Band for bracelets. No. 997,225; July 4; Sp. p. 1321; Gaz. vol. 168; p. 215.
Allen, Henry C., Ruby, S. C. Mail-box coin-holder. No. 991,593; May 9; Sp. p. 1655; Gaz. vol. 166; p. 304.
Allen, Henry W., New York, N. Y., assignor to Interborough Realty Company. Bond. No. 997,356; July 11; Sp. p. 1602; Gaz. vol. 168; p. 290.
Allen, Horace M., Detroit, Mich. Adjustable foot-rest or shelf for radiators. No. 1,004,959; Oct. 3; Sp. p. 879; Gaz. vol. 171; p. 144.
Allen, Isabella, Kansas City, Mo. Mail-tying device. No. 982,111; Jan. 17; Sp. p. 4316; Gaz. vol. 162; p. 720.
Allen, James B., San Diego, Cal. Wrench. No. 995,211; June 13; Sp. p. 2408; Gaz. vol. 167; p. 417.
Allen, James B., and W. Bowler, San Diego, Cal. Wheel-puller for motor-vehicles. No. 1,011,140; Dec. 12; Sp. p. 1661; Gaz. vol. 173; p. 293.
Allen, James H. (See Davis and Allen.)
Allen, James P., Pittsburg, Pa. Annealing-box. No. 1,003,959; Sept. 19; Sp. p. 3879; Gaz. vol. 170; p. 681.
Allen, Jared E., and F. F. Ellis, assignors to Oneida Community Limited, Oneida, N. Y. Device for setting animal-traps. No. 1,011,102; Dec. 5; Sp. p. 1543; Gaz. vol. 173; p. 244.
Allen, John, Chippewa, Wis. Tobacco-pipe. No. 997,357; July 11; Sp. p. 1604; Gaz. vol. 168; p. 291.
Allen, John D., and J. A. Conly, Philadelphia, Pa. Motor-vehicle. No. 983,107; Jan. 31; Sp. p. 6435; Gaz. vol. 162; p. 1118.
Allen, John H., East Orange, N. J., assignor, by mesne assignments, to Q. & C. Company, New York, N. Y. Compromise rail-joint. No. 988,238; Mar. 28; Sp. p. 5265; Gaz. vol. 164; p. 934.
Allen, Jonathan S., Newcastle, Ind. Scale. No. 993,216; May 23; Sp. p. 5110; Gaz. vol. 166; p. 921.
Allen, Joseph H., *et al.* (See Brooks, John H., assignor.)
Allen, Joseph H., Chicago, Ill., assignor, by mesne assignments, to General Electric Company. Arc-lamp. No. 996,392; June 27; Sp. p. 5054; Gaz. vol. 167; p. 890.
Allen, Joseph M., Hendersonville, N. C. Cultivator. No. 982,921; Jan. 31; Sp. p. 6030; Gaz. vol. 162; p. 1055.
Allen, Lambeth S. (See Watson, Samuel J., assignor.)
Allen, Lewis C., Cincinnati, assignor to E. A. Johnson, Pomeroy, Ohio. Combined water and air pump mechanism. No. 997,891; July 11; Sp. p. 2762; Gaz. vol. 168; p. 473.
Allen, Manson B. (See Sparks, Allen, and Astley.)
Allen, Mary L., New York, N. Y. Lady's collar-support. No. 983,260; Feb. 7; Sp. p. 1; Gaz. vol. 163; p. 3.
Allen, Mary L., New York, N. Y. Collar-support. No. 996,304; June 27; Sp. p. 4863; Gaz. vol. 167; p. 858.
Allen, Matthew F., Nashville, Tenn. Range warming-closet. No. 1,011,004; Dec. 5; Sp. p. 1325; Gaz. vol. 173; p. 211.
Allen, Miner W., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Carbon electrode. No. 1,008,002; Nov. 7; Sp. p. 777; Gaz. vol. 172; p. 123.
Allen, Miner W., and W. T. Conn, Lakewood, assignors to National Carbon Company, Cleveland, Ohio. Electrode for flaming-arc lamps. No. 982,407; Jan. 24; Sp. p. 4927; Gaz. vol. 162; p. 853.
Allen, Orville C. (See Driggs, Louis L., assignor.)
Allen, Orville E., Hornell, N. Y. Domestic cooking utensil. No. 1,005,919; Oct. 17; Sp. p. 2959; Gaz. vol. 171; p. 536.
Allen, Orville E., Hornell, N. Y. Axle suspension. No. 1,008,102; Nov. 7; Sp. p. 979; Gaz. vol. 172; p. 157.
Allen, Philip, Providence, R. I. Automatic fire-extinguisher. No. 1,011,005; Dec. 5; Sp. p. 1326; Gaz. vol. 173; p. 211.
Allen, Robert A., Chicago, Ill. Dust-collecting apparatus. No. 985,765; Mar. 7; Sp. p. 1; Gaz. vol. 164; p. 3.
Allen, Sallie M., Poplar Bluff, Mo. Skirt-measuring device. No. 990,619; Apr. 25; Sp. p. 5053; Gaz. vol. 165; p. 880.
Allen, Samuel L. (See Stokes, Percy, assignor.)
Allen, Samuel L., Moorestown, N. J. Cultivator and sectional cultivator-teeth. No. 997,943; July 18; Sp. p. 2903; Gaz. vol. 168; p. 533.
Allen, Samuel L., Moorestown, N. J. Cultivator. No. 1,008,445; Nov. 14; Sp. p. 1850; Gaz. vol. 172; p. 319.
Allen, Sherman T., Detroit, Mich. Vehicle-top-bow holder. No. 984,340; Feb. 14; Sp. p. 2361; Gaz. vol. 163; p. 399.
Allen, Sherman T., Detroit, Mich. Vehicle-top bow-holder. No. 994,107; June 6; Sp. p. 6; Gaz. vol. 167; p. 4.
Allen, Stratford B., and E. T. King, Cambridge, Mass. Alternator. No. 998,147; July 18; Sp. p. 3358; Gaz. vol. 168; p. 605.
Allen Switch Company, The. (See Allen, Aaron B., assignor.)
Allen, Thomas B., assignor to The Carborundum Company, Niagara Falls, N. Y. Treating metallic articles. No. 981,513; Jan. 10; Sp. p. 3026; Gaz. vol. 162; p. 493.
Allen, Thomas B., assignor to The Carborundum Company, Niagara Falls, N. Y. Composition of matter containing alumina and magnesia. No. 1,001,497; Aug. 22; Sp. p. 4902; Gaz. vol. 169; p. 886.
Allen, Thomas B., assignor to The Carborundum Company, Niagara Falls, N. Y. Composition of matter containing alumina, magnesia, and boric oxid. No. 1,001,570; Aug. 22; Sp. p. 5047; Gaz. vol. 169; p. 910.
Allen, Thomas B., assignor to The Carborundum Company, Niagara Falls, N. Y. Composition of matter containing beryllia and alumina. No. 1,001,571; Aug. 22; Sp. p. 5048; Gaz. vol. 169; p. 910.
Allen, Thomas B., assignor to The Carborundum Company, Niagara Falls, N. Y. Treating electrometallurgical products. No. 1,001,572; Aug. 22; Sp. p. 5049; Gaz. vol. 169; p. 910.
Allen, Thomas G., London, England. Acetylene-gas generator. No. 997,944; July 18; Sp. p. 2904; Gaz. vol. 168; p. 533.
Allen, Walter P., Philadelphia, Pa. Time circuit-controller. No. 992,631; May 16; Sp. p. 3872; Gaz. vol. 166; p. 690.
Allen, William A. (See Lyhne, Anker S., assignor.)
Allen, William D. (See Anderson, Frank A., assignor.)
Allen, William D., assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-rack. No. 984,060; Feb. 14; Sp. p. 1766; Gaz. vol. 163; p. 304.
Allen, William H., Long Island City, N. Y. Emergency stopping device for cars. No. 984,341; Feb. 14; Sp. p. 2362; Gaz. vol. 163; p. 399.
Allen, William H., Imperial, Cal. Truss. No. 1,000,481; Aug. 15; Sp. p. 2705; Gaz. vol. 169; p. 502.
Allen, William H., San Diego, Cal. Wave-motor. No. 1,004,332; Sept. 26; Sp. p. 4723; Gaz. vol. 170; p. 835.
Allen, William H., Detroit, Mich. Drying hides. No. 1,009,881; Nov. 28; Sp. p. 4961; Gaz. vol. 172; p. 896.
Allen, William P., Moon township, Allegheny county, Pa. Electrical thermostat. No. 1,000,482; Aug. 15; Sp. p. 2706; Gaz. vol. 169; p. 502.
Allen, William R., Indianapolis, Ind. Scale. No. 999,730; Aug. 8; Sp. p. 1070; Gaz. vol. 169; p. 213.
Allenson, John, St. Paul, Minn. Pastry-baking machine. No. 987,032; Mar. 14; Sp. p. 2670; Gaz. vol. 164; p. 462.
Alley, Frederick L., Sydney, and W. Pack, Neutral Bay, near Sydney, New South Wales, Australia, assignors to United Shoe Machinery Company, Paterson, N. J. Skiving-machine. No. 996,744; July 4; Sp. p. 286; Gaz. vol. 168; p. 50.

Alleyn, Henry M., London, England. Antifriction-tip for furniture or the like. No. 995,758; June 20; Sp. p. 3648; Gaz. vol. 167; p. 637.
Allfree, James B., Chicago, Ill. Valve-gear. No. 1,002,112; Aug. 29; Sp. p. 6204; Gaz. vol. 169; p. 1122.
Allgemeine Briketierungs-Gesellschaft m. b. H. (See Rónay, Arpad, assignor.)
Alliance Machine Company, The. (See Cromwell, John C., assignor.)
Alliance Machine Company, The. (See Kendall, David, assignor.)
Alling, James H., Columbia, assignor to Security and Holding Company, San Francisco, Cal. Recovering fine gold. (Reissue.) No. 13,307; Nov. 7; Sp. p. 1412; Gaz. vol. 172; p. 229.
Allinger, Sophia, Ridgway, Pa. Window-chair. No. 992,841; May 23; Sp. p. 4306; Gaz. vol. 166; p. 793.
Allingham, James, Chicago, Ill. Valve-operating mechanism. No. 1,002,953; Sept. 12; Sp. p. 1732; Gaz. vol. 170; p. 300.
Allington, William E., Saginaw, Mich. Dust-collector. No. 989,939; Apr. 18; Sp. p. 3536; Gaz. vol. 165; p. 615.
Allington, William E., Saginaw, Ill. Dust-collector. No. 992,531; May 16; Sp. p. 3657; Gaz. vol. 166; p. 656.
Allis-Chalmers Company. (See Barth, Charles F., assignor.)
Allis-Chalmers Company. (See Bassett, Norman C., assignor.)
Allis-Chalmers Company *et al.* (See Behrend, Bernard A., assignor.)
Allis-Chalmers Company *et al.* (See Behrend and Field, assignors.)
Allis-Chalmers Company. (See Brown, Arthur J., assignor.)
Allis-Chalmers Company. (See Brown and Williamson, assignors.)
Allis-Chalmers Company *et al.* (See Cheney, Herbert W., assignors.)
Allis-Chalmers Company. (See Dandliker, Walter P., assignor.)
Allis-Chalmers Company. (See Davies, David P., assignor.)
Allis-Chalmers Company. (See Elshoff, Henry F., assignor.)
Allis-Chalmers Company. (See Fechheimer, Carl J., assignor.)
Allis-Chalmers Company. (See Fischer, Charles A., assignor.)
Allis-Chalmers Company. (See Gray, Alexander M., assignor.)
Allis-Chalmers Company. (See Haskins, Bradley, assignor.)
Allis-Chalmers Company. (See Jeffrey, Fraser, assignor.)
Allis-Chalmers Company. (See Johnson, John L., assignor.)
Allis-Chalmers Company. (See Karapetoff, Vladimir, assignor.)
Allis-Chalmers Company. (See Knight, Earle R., assignor.)
Allis-Chalmers Company. (See Kwis, Arthur F., assignor.)
Allis-Chalmers Company. (See Lamb, Mark R., assignor.)
Allis-Chalmers Company. (See Latta, Nisbet, assignor.)
Allis-Chalmers Company. (See Lieber, William H., assignor.)
Allis-Chalmers Company *et al.* (See Lietzenmayer, William J., assignor.)
Allis-Chalmers Company. (See Lord, Charles E., assignor.)
Allis-Chalmers Company *et al.* (See Mattman, Emil, assignor.)
Allis-Chalmers Company *et al.* (See Menningen, Joseph F., assignor.)
Allis-Chalmers Company. (See Moore, Joseph W., assignor.)
Allis-Chalmers Company. (See Mortensen, Sören H., assignor.)
Allis-Chalmers Company. (See Nichols, Louis C., assignor.)
Allis-Chalmers Company. (See Patitz, Johann F. M., assignor.)
Allis-Chalmers Company *et al.* (See Powell, William H., assignor.)
Allis-Chalmers Company *et al.* (See Ralston, Howard H., assignor.)
Allis-Chalmers Company. (See Rennie, John C., assignor.)
Allis-Chalmers Company. (See Rotter, Max, assignor.)
Allis-Chalmers Company. (See Schley, George B., assignor.)
Allis-Chalmers Company. (See Shaw, Ernest C., assignor.)
Allis-Chalmers Company. (See Shipley, Grant B., assignor.)
Allis-Chalmers Company. (See Singer, William H., assignor.)
Allis-Chalmers Company. (See Sprado, Carl G., assignor.)
Allis-Chalmers Company. (See Steen, Halfdan A., assignor.)
Allis-Chalmers Company. (See Stull, Emmett W., assignor.)
Allis-Chalmers Company. (See Stull and Schley, assignors.)
Allis-Chalmers Company. (See Sutton, William S., assignor.)
Allis-Chalmers Company. (See Tomlinson, Royal D., assignor.)
Allis-Chalmers Company. (See Trout, William H., assignor.)
Allis-Chalmers Company *et al.* (See Williamson, Robert B., assignor.)
Allis-Chalmers Company *et al.* (See Wouters, Alfred H., assignor.)
Allison, G. L. (See Birdsong, Charles, assignor.)
Allison, Ira, Kowanda, Nebr. Bridle attachment. No. 999,081; July 25; Sp. p. 5443; Gaz. vol. 168; p. 968.
Allison, John, Dravosburg, assignor, by mesne assignments, to Pittsburgh Equipment Company, Pittsburg, Pa. Car-truck. No. 987,033; Mar. 14; Sp. p. 2673; Gaz. vol. 164; p. 462.
Allison, Robert J., assignor of one-third to L. C. Sumerlin, Creston, Wash. Match-box. No. 993,139; May 23; Sp. p. 4957; Gaz. vol. 166; p. 897.
Allison, Robert L., Huckabay, Tex. Scissors or shears. No. 1,007,836; Nov. 7; Sp. p. 440; Gaz. vol. 172; p. 66.
Alloway, Guy, Seattle, Wash. Surfacing-machine. No. 982,408; Jan. 24; Sp. p. 4928; Gaz. vol. 162; p. 853.
Allport, Walter A. D., and T. J. W. Davenport, Roseau, Dominica, British West Indies. Machine for extracting essential oils from citrus fruits. No. 1,002,020; Aug. 29; Sp. p. 6041; Gaz. vol. 169; p. 1093.
Allshouse, Clarence A. (See Bennet, Ella J., assignor.)
Allshouse, Joseph K., Clarion, Pa. Nose-bag. No. 983,108; Jan. 31; Sp. p. 6436; Gaz. vol. 162; p. 1118.
Allsteadt, William A., Chebanse, Ill. Ironing-board. No. 1,006,340; Oct. 17; Sp. p. 3907; Gaz. vol. 171; p. 683.
Allsup, Ralph W., assignor of one-half to H. J. Smith, Lincoln, Nebr. Corn-hanger. No. 984,992; Feb. 21; Sp. p. 3715; Gaz. vol. 163; p. 657.
Alltree, Arthur, Manchester, England. Internal-combustion engine. No. 1,010,566; Dec. 5; Sp. p. 366; Gaz. vol. 173; p. 58.
Allwardt, Henry A., Battle Creek, assignor of one-half to W. J. Stapleton, Detroit, Mich. Bottle-capping machine. No. 991,125; May 2; Sp. p. 631; Gaz. vol. 166; p. 108.
Allwood, Ernest A., Alcester, England. Needle for sound-reproducing instruments. No. 984,789; Feb. 21; Sp. p. 3346; Gaz. vol. 163; p. 590.
Allyn, Newell O., Warren, Ohio. Explosive-engine. No. 989,221; Apr. 11; Sp. p. 1950; Gaz. vol. 165; p. 337.
Allyn, William C., Mulberry, Ind. Brace. No. 993,140; May 23; Sp. p. 4959; Gaz. vol. 166; p. 897.
Alma Manufacturing Company of Baltimore City. (See Greenebaum, Abraham H., assignor.)
Alma Manufacturing Company of Baltimore City. (See Hartman, Emil, assignor.)
Alma Manufacturing Company of Baltimore City. (See Kerngood, Herman, assignor.)
Almon, Charles W., Youngstown, Ohio. Holder for graphophone-records. No. 993,333; May 23; Sp. p. 5346; Gaz. vol. 166; p. 958.
Almond, Lester L., Troy, N. Y., assignor to The Singer Manufacturing Company. Automatic tension device. No. 1,007,837; Nov. 7; Sp. p. 441; Gaz. vol. 172; p. 66.
Almy, Darwin, Providence, R. I. Water-tube boiler. No. 982,198; Jan. 17; Sp. p. 4467; Gaz. vol. 162; p. 749.
Alperin, Bernard A., New York, assignor to L. B. Gleason, Delhi, N. Y. Tire-case. No. 993,632; May 30; Sp. p. 6016; Gaz. vol. 166; p. 1093.
Alphin, Christphor, Kinston, N. C. Lamp-chimney holder. No. 990,181; Apr. 18; Sp. p. 4033; Gaz. vol. 165; p. 694.
Alquist, Karl, Rugby, England, assignor to General Electric Company. Fluid-pressure turbine. No. 994,049; May 30; Sp. p. 6882; Gaz. vol. 166; p. 1236.
Alsberg, Julius, New York, N. Y. Insulator. No. 1,006,040; Oct. 17; Sp. p. 3225; Gaz. vol. 171; p. 578.
Alsberg, Julius, New York, N. Y. Insulator. No. 1,006,041; Oct. 17; Sp. p. 3227; Gaz. vol. 171; p. 578.
Alsberg, Julius, New York, N. Y. Insulator. No. 1,006,042; Oct. 17; Sp. p. 3230; Gaz. vol. 171; p. 578.
Alsfasser, Joseph, Chicago, Ill. Window. No. 999,357; Aug. 1; Sp. p. 329; Gaz. vol. 169; p. 58.
Alshuler, Moses, Waukegan, Ill. Lady's house-dress. No. 1,004,960; Oct. 3; Sp. p. 881; Gaz. vol. 171; p. 144.
Alsip, Joseph E. (See Beauchamp, Alexander S., assignor.)
Alsop, Bertha S., Los Angeles, Cal. Sewing-machine attachment. No. 986,794; Mar. 14; Sp. p. 2198; Gaz. vol. 164; p. 382.
Alsop, Martin L., New York, N. Y. Gem-display holder. No. 1,012,501; Dec. 19; Sp. p. 4667; Gaz. vol. 173; p. 801.
Alsopiedy, Albert J., Jeannette, Pa. Rail-fastener. No. 999,082; July 25; Sp. p. 5444; Gaz. vol. 168; p. 968.
Alsterberg, Henning, St. Paul, Minn. Lock-key. No. 1,004,333; Sept. 26; Sp. p. 4724; Gaz. vol. 170; p. 836.
Alston, Frank H., assignor of one-half to B. Brooks, Birmingham, England. Electric ignition system of internal-combustion engines. No. 1,010,211; Nov. 28; Sp. p. 5628; Gaz. vol. 172; p. 1007.
Alston, James K., Millville, Fla. Lag for conveyer-chains. No. 988,239; Mar. 28; Sp. p. 5267; Gaz. vol. 164; p. 934.

Alphabetical list of patentees—Continued.

Altemus, Forrest E., Philadelphia, Pa. Push-button. No. 994,493; June 6; Sp. p. 793; Gaz. vol. 167; p. 135.
Alten, Alphonso N., and O. David, Avon, Ohio. Blow-valve for gas-wells. No. 999,731; Aug. 8; Sp. p. 1071; Gaz. vol. 169; p. 213.
Alten, George P., Austin, Tex. Sewing-awl. No. 1,009,882; Nov. 28; Sp. p. 4962; Gaz. vol. 172; p. 896.
Altenbaugh, William F. (See Weaver and Altenbaugh.)
Altenberg, George P., and F. Boehm, Cincinnati, Ohio; said Boehm assignor to said Altenberg. Double-walled vessel. No. 991,409; May 2; Sp. p. 1238; Gaz. vol. 166; p. 207.
Altenberg, George P., and F. Boehm, Cincinnati, Ohio; said Boehm assignor to said Altenberg. Double-walled vessel. No. 991,410; May 2; Sp. p. 1241; Gaz. vol. 166; p. 207.
Altenburgh, Wilford G., National City, Cal. Automatic cut-off and stop for sound-reproducing machines. No. 1,006,517; Oct. 24; Sp. p. 4320; Gaz. vol. 171; p. 775.
Altenstein, Fritz, Budapest, assignor to Kommanditgesellschaft Guido Ruetgers Holzimprägnierungs- und Holzpflasterungsgesellschaft, Vienna, Austria-Hungary. Machine for grooving railway-sleepers. No. 999,623; Aug. 1; Sp. p. 839; Gaz. vol. 169; p. 146.
Alter, Christian, New York, N. Y. Door-operating device. No. 993,941; May 30; Sp. p. 6660; Gaz. vol. 166; p. 1199.
Alter, Christian, New York, N. Y. Razor stropping and honing machine. No. 1,001,573; Aug. 22; Sp. p. 5051; Gaz. vol. 169; p. 910.
Althause, John G., Omaha, Nebr. Quilting-frame. No. 1,000,064; Aug. 8; Sp. p. 1769; Gaz. vol. 169; p. 326.
Alther, Henry J., Boston, assignor of one-half to G. W. Gill, Medford, Mass. Annunciator. No. 1,012,790; Dec. 26; Sp. p. 5317; Gaz. vol. 173; p. 947.
Althouse, William E., Reading, Pa. Newspaper-holder. No. 999,724; Aug. 8; Sp. p. 1051; Gaz. vol. 169; p. 211.
Altland, Charles, administrator. (See Altland, Milton J.)
Altland, Milton J., deceased, Dillsburg, Pa.; C. Altland, administrator. Cushion-tire. No. 1,005,589; Oct. 10; Sp. p. 2258; Gaz. vol. 171; p. 389.
Altman, Michael. (See Florsheim, Simon, assignor.)
Altman Neckwear Co., The. (See Mosher, Harry S., assignor.)
Alton, Lee T., Brooklyn, N. Y. Incandescent gas-burner. No. 984,177; Feb. 14; Sp. p. 1994; Gaz. vol. 163; p. 342.
Altoonian, Charles S., Providence, R. I. Stitching for signatures of books. No. 1,006,451; Oct. 24; Sp. p. 4155; Gaz. vol. 171; p. 751.
Altschul, Hugo, Chicago, Ill. Coin-packaging machine. No. 984,522; Feb. 21; Sp. p. 2766; Gaz. vol. 163; p. 495.
Altstetter, George J. (See Brooks, Parsons, and Altstetter.)
Altvater, Henry H., Fowler, Mich. Display-rack. No. 999,189; July 25; Sp. p. 5631; Gaz. vol. 168; p. 1001.
Altwein, Oscar R., assignor to The Peck, Stow and Wilcox Company, Southington, Conn. Chuck-jaws. No. 982,559; Jan. 24; Sp. p. 5253; Gaz. vol. 162; p. 906.
Alvarez, Alfonso, New York, N. Y. Blade for safety-razors. No. 991,594; May 9; Sp. p. 1656; Gaz. vol. 166; p. 304.
Alverson, Lewis, Fort Worth, Tex. Tank for oil-burners. No. 992,102; May 9; Sp. p. 2666; Gaz. vol. 166; p. 475.
Alves, Walter S., Henderson, Ky. Gun-stock. No. 1,007,048; Oct. 31; Sp. p. 5474; Gaz. vol. 171; p. 1013.
Alvey, Andrew L., Kansas City, Kans. Grain-car door. No. 998,941; July 25; Sp. p. 5150; Gaz. vol. 168; p. 919.
Alwin Manufacturing Company. (See McGill, Albert E., assignor.)
Amalgamated Press, The. (See Davis, Sidney C., assignor.)
Amalgamated Radio-Telegraph Company, The. (See Seibt, Georg, assignor.)
Amann, Charles H., assignor to M. R. and J. W. Witt and E. W. Brown, Cincinnati, Ohio. Hinge. No. 1,000,879; Aug. 15; Sp. p. 3581; Gaz. vol. 169; p. 643.
Amanson, Lyman O., and M. H. Ulrich, Miller, S. D. Headlight for automobiles. No. 1,010,340; Nov. 28; Sp. p. 5898; Gaz. vol. 172; p. 1050.
Amato, Edward V., New York, N. Y. Safety window-lock. No. 994,556; June 6; Sp. p. 947; Gaz. vol. 167; p. 157.
Amberson, Linton C., New Castle, Pa. Headlight-shifting mechanism. No. 981,350; Jan. 10; Sp. p. 2694; Gaz. vol. 162; p. 437.
Ambler, George A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for inserting protectors. No. 995,050; June 13; Sp. p. 2105; Gaz. vol. 167; p. 366.
Ambler, George A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Mechanism for controlling work-supports. No. 996,043; June 27; Sp. p. 4239; Gaz. vol. 167; p. 771.
Ambler, George A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,005,920; Oct. 17; Sp. p. 2961; Gaz. vol. 171; p. 536.
Ambler, George A., Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support-controlling mechanism. No. 1,005,921; Oct. 17; Sp. p. 2971; Gaz. vol. 171; p. 537.
Amborn, George, New York, assignor to J. H. Williams & Co., Brooklyn, N. Y. Chain pipe-wrench. No. 985,766; Mar. 7; Sp. p. 2; Gaz. vol. 164; p. 3.
Ambrette, Conrad, assignor to Cevasco, Cavagnaro & Ambrette, New York, N. Y. Kneading-machine. No. 1,006,710; Oct. 24; Sp. p. 4727; Gaz. vol. 171; p. 842.
Ambrock, Ewald, Hagen, Westphalia, Germany. Device for connecting hats and sticks to chairs. No. 993,633; May 30; Sp. p. 6017; Gaz. vol. 166; p. 1094.
Ambrose, Harry T. (See Donning, George W., assignor.)
Ambrozy, Eugene, New York, N. Y. Bed-bottom. No. 981,966; Jan. 17; Sp. p. 4026; Gaz. vol. 162; p. 672.
Ambuhl, Andrew, San Francisco, Cal. Burglar-alarm. No. 985,720; Feb. 28; Sp. p. 5373; Gaz. vol. 163; p. 941.
Ameling, Herman R., Decatur, Ill. Prospecting-drill. No. 997,358; July 11; Sp. p. 1605; Gaz. vol. 168; p. 291.
American Advertograph Co. (See Weener and Gordon, assignors.)
American Arch Company. (See Moore, Charles B., assignor.)
American Art Works, The. (See Kristofek, Frank J., assignor.)
American Automatic Machinery Company, The. (See Heybach, Frederick J., assignor.)
American Automatic Railway Switch Company. (See Penruddocke, Edmund L., assignor.)
American Automatic Railway Switch Company. (See Shemwell, Harold, assignor.)
American Automatic Telephone Company, The. (See Bruce, William M., Jr., assignor.)
American Automotoneer Company. (See Ebersole, Cyrus P., assignor.)
American Bakers Machinery Company. (See Masel, Theodore, assignor.)
American Bakers' Machinery Company. (See Streich, Frank, assignor.)
American Baker's Machinery Company. (See Streich, Paul B., assignor.)
American Bank Note Company. (See Green and Eaton, assignors.)
American Bar Lock Company. (See Mulford, Logan W., assignor.)
American Bioscope Company. (See Klaiber, Maximilan, assignor.)
American Blower Company. (See Inglis, James, assignor.)
American Bottle Cap Company. (See Schmitt, Edward D., assignor.)
American Box Ball Company, The. (See Talbert, Shaw, Holcomb, and Hoke, assignors.)
American Brick-Handling Machine Co. (See Weber, Henry, assignor.)
American Buckle Co., The. (See Kelsey, Horatio G., assignor.)
American Button Company. (See Goerdes, Frederick W., assignor.)
American Can Company. (See Benedict, Charles R., assignor.)
American Can Company. (See Eberhart, Felix, assignor.)
American Can Company. (See Graham, Charles W., assignor.)
American Can Company. (See Hodgson, John G., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Johnson, Axel, assignor.)
American Can Company. (See Kannenberg, Baldwin H., assignor.)
American Can Company. (See Leitch, Meredith, assignor.)
American Can Company. (See Nelson, Charles J., assignor.)
American Can Company. (See Rudolph, Franklin, assignor.)
American Can Company. (See Sharp, Lee C., assignor.)
American Can Company. (See Smith, John E., assignor.)
American Can Company. (See Smith, William H., assignor.)
American Can Company. (See Stewart, Thomas H., assignor.)
American Can Company. (See Stollberg, Charles, assignor.)
American Can Company. (See Swangren, Edwin V., assignor.)
American Can Company. (See Symonds, Clarence M., assignor.)
American Can Company. (See Taylor, William E., assignor.)
American Can Company. (See Weber, George W., assignor.)
American Can Company. (See Werner, Charles, assignor.)
American Can Company. (See Xavier, Schenck, and Rudolph, assignors.)
American Car & Foundry Company. (See Ames, Joseph H., assignor.)
American Car and Foundry Company. (See Beard, Paul M., assignor.)
American Car & Foundry Company. (See Frame, Robert E., assignor.)

Alphabetical list of patentees—Continued.

American Car & Foundry Company. (See Frame and Rohlfing, assignors.)
American Car & Foundry Company. (See King, George I., assignor.)
American Car and Foundry Company. (See Lawler, James G., assignor.)
American Car and Foundry Company. (See Rohlfing, John M., assignor.)
American Car and Foundry Company. (See Summa, Victor M., assignor.)
American Car and Foundry Company. (See Wolff, Herbert W., assignor.)
American Case & Register Company, The. (See Peterson, Fredolf, assignor.)
American Case & Register Company, The. (See Tice and Gorsuch, assignors.)
American Cement Plaster Company, The. (See Henly, Roy A., assignor.)
American Cement Tile Manufacturing Company. (See Stutz, Charles C., assignor.)
American Circular Loom Company. (See Thibodeau, Charles, assignor.)
American Clay Machinery Company, The. (See Strickland, David, assignor.)
American Conduit Manufacturing Company. (See Flack, Charles A., assignor.)
American Cork Screw Company, The. (See Bethel, Joseph T., assignor.)
American Cork and Seal Company. (See Bartlett, Leonard, assignor.)
American Corset Stay Company. (See McCormick, Hugh M., assignor.)
American Corset Stay Company. (See Weber-McCormick, Sara, assignor.)
American Couch Company. (See Plunkett, Charles L., assignor.)
American Cutlery Company. (See Weck, Elmer E., assignor.)
American Cyanamid Company. (See Beckman, John W., assignor.)
American Cyanamid Company. (See Peacock, Samuel, assignor.)
American Cyanamid Company. (See Washburn, Frank S., assignor.)
American Cystoscope Makers Inc. (See Wappler, Reinhold H., assignor.)
American Dairy Supply Company, The. (See Hines, Albert B., assignor.)
American Dehydrating Co. (See Stare, Frank T., assignor.)
American Detachable Shoe Heel Company, The. (See Benton, Edward T., Jr., assignor.)
American District Telegraph Company. (See Hoge, Joseph F. D., assignor.)
American Drill Company, The. (See Cast, George, assignor.)
American Drill Company, The. (See Hunter, Harry D., assignor.)
American Electric Alarm Company. (See Heinrich, Stephen J., assignor.)
American Electric Fuse Co. (See Thompson, George G., assignor.)
American Electric Telephone Company, The. (See Burns, Peter C., assignor.)
American Electrical Heater Company. (See Kuhn and Shailor, assignors.)
American Exploration and Guaranty Company. (See Prentiss, Frederick H., assignor.)
American Farm Tractor Co. (See Traxler, Cisco R., assignor.)
American Finishing Machinery Company. (See Birch, Sydney, assignor.)
American Firecracker Manufacturing Company. (See Schulman, Louis and J., assignors.) (Reissue.)
American Fog Signal Company. (See Knapp, Alfred H., assignor.)
American Gas & Power Co. (See Haywood, Daniel H., assignor.)
American Gas & Power Company. (See Spangler, Walter J., assignor.)
American Gas-Tool Company. (See White and Duryea, assignors.)
American Gasaccumulator Company. (See Dalén, Gustaf, assignor.)
American Gold Amalgamation Company. (See Kittson, Alfred B., assignor.)
American Graphophone Co. (See Pumphrey, Walter H., assignor.)
American Graphophone Company. (See Macdonald, Thomas H., assignor.)
American Graphophone Company. (See Rumble, Charles A., assignor.)
American Hame Mfg. Co. (See Davis, James H., assignor.)
American Heel Machine Company, The. (See Wolfe, William, assignor.)
American Hoist & Derrick Co. (See Crosby, Oliver, assignor.)
American Hydraulic Air Compressor Company. (See Girard, Alfred O., assignor.)
American Insulating Company. (See Fate, John L., assignor.)
American Ironing Machine Co. (See Grosse and French, assignors.) (Reissue.)
American Kitchen Products Company. (See Rademacher, Johann C. W., assignor.)
American-La France Fire Engine Company. (See McCaslin, Harry M., assignor.)
American Lady Corset Company. (See Colley, George H., assignor.)
American Laundry Machinery Company. (See Binder, Gottlob, assignor.)
American Laundry Machinery Company. (See Cooper, Daniel M., assignor.)
American Laundry Machinery Company. (See Hagen, Arthur T., assignor.)
American Laundry Machinery Company. (See Hagen and Cooper, assignors.)
American Lithographic Company. (See Hopkins, William L., assignor.)
American Lock Nut Company. (See Drake, Chester T., assignor.)
American Lock Nut Company. (See Murdock, Edward J., assignor.)
American Machinery Company. (See Bryant, James G., assignor.)
American Mechanical Calculator Company, The. (See Webner, Frank E., assignor.)
American Metal Cap Company. (See Becher, Otto, assignor.)
American Metal Cap Company. (See Hammer, Charles, assignor.)
American Metal Screen and Weatherstrip Company. (See Swart, Robert B., assignor.)
American Moistening Company. (See Comfort, Edward W., assignor.)
American Mono Service Company. (See Taylor, Elmer Z., assignor.)
American Monorail Company. (See Tunis, Howard H., assignor.)
American Moving Picture Machine Company. (See Uebelmesser, Charles R., assignor.)
American Multigraph Company, The. (See Bates, Albert H., assignor.)
American Multigraph Company, The. (See Gammeter, Harry C., assignor.)
American Multigraph Company, The. (See Osborn, Henry C., assignor.)
American News-Vending Machine Co. (See Somers, Everett X., assignor.)
American Oil Engine Company. (See Johnston, Philip D., assignor.)
American Oil Pump & Tank Co., The. (See Davis, John B., assignor.)
American Oil & Supply Co. (See Meyer, Peter, assignor.)
American Optical Company. (See Baker, Nelson M., assignor.)
American Optical Company. (See Carson and Styll, assignors.)
American Optical Company. (See Day, George H., assignor.)
American Optical Company. (See Laflin, Stephen C., assignor.)
American Optical Company. (See Straubel and Vetter, assignors.)
American Optical Company. (See Wells, Joel C., assignor.)
American Oxhydric Company, The. (See Lulli, Primo, assignor.)
American Paper Bottle Company, The. (See Heyl, Henry R., assignor.)
American Paper Goods Company, The. (See Cooley, Henry B., assignor.)
American Paper Products Company. (See Rexford, Ley P., assignor.)
American Paving and Manufacturing Company, The. (See Rufli, Herman J., assignor.)
American Pedal Co. (See Cary, Isaac A., assignor.)
American Pin Company. (See Willetts, William R., assignor.)
American Plow Co. (See Dengel, John, assignor.)
American Pneumatic Service Company. (See Jennings, Chester S., assignor.)
American Pneumatic Service Company. (See Stoddard, Charles F., assignor.)
American Pneumatic Service Company. (See Waterhouse, Harold D., assignor.)
American Post and Pole Company, The. (See Atchison, Herbert E., assignor.) (Reissue.)
American Power and Light Company. (See Ames, Rufus, assignor.)
American Promoting Company. (See Mayhew, Theophilus, assignor.)
American Pulley Company, The. (See Bowen, Russell H., assignor.) (Reissue.)
American Pulley Company, The. (See Brinley, Charles A., assignor.)
American Pump Company, The. (See Lippert, Samuel, assignor.)
American Radiator Company. (See Hoffman, George D., assignor.)

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American Railway Device Company, The. (See Reynolds, James F., assignor.)
American Railway Mail Device Company. (See Gerhardt, Karl, assignor.)
American Rolling Mill Company, The. (See Reynolds, William M., assignor.)
American Safety Door Company. (See Rogers, William S., assignor.)
American Safety Lantern Company. (See Whipple and Moody, assignors.)
American Safety Lantern Company. (See Whipple, Moody, and Stevens, assignors.)
American Sales Book Company. (See Hollingsworth, Samuel, assignor.)
American Sanitary Supply Company. (See Lovatt, Bernard, assignor.)
American Saw Mill Machinery Co. (See Richards, Robert H., assignor.)
American Saw-Mill Machinery Company. (See Hueber, Edward P., assignor.)
American Seamless Trousers Company, Incorporated, of Maryland, The. (See Jacobs, Herman, assignor.)
American Separator Company. (See Cook, George W., Jr., assignor.)
American Separator Company. (See Hartmann, Louis H., assignor.)
American Sheet & Tin Plate Company. (See Bray, Charles W., assignor.)
American Shoe Machinery and Tool Company. (See Medalie, Benjamin, assignor.)
American Skate Company. (See Warner, James, assignor.)
American Slicing Machine Company. (See Wolff and Schaefer, assignors.)
American Spark Arrester Company. (See Van Horn and Endsley, assignors.)
American Stamp and Ticket Vending Machine Company. (See Oehring, Oscar, assignor.)
American Standard Manufacturing Company. (See Lawlor, Simeon C., assignor.)
American Stay Company. (See Merrick, Frank W., assignor.)
American Steam Packing Company. (See Montgomery, Alexander, assignor.)
American Steel Foundries. (See Covert, Edson C., assignor.)
American Steel Foundries. (See Floyd, George G., assignor.)
American Steel Foundries. (See Floyd and Murray, assignors.)
American Steel Foundries. (See Hudson, Frank W., assignor.)
American Steel Foundries. (See Janney, Robert E. L., assignor.)
American Steel Foundries. (See Janney and Kinne, assignors.)
American Steel Foundries. (See Kinne, Edmund P., assignor.)
American Steel Foundries. (See Lamont, John A., assignor.)
American Steel Foundries. (See Murray, Charles F., assignor.)
American Steel Foundries *et al.* (See Murray and Atwood, assignors.)
American Steel Foundries. (See Snyder, Frederick T., assignor.)
American Steel Frame & Band Iron Company. (See Markowitz, Benjamin, assignor.)
American Steel & Wire Company. (See Cocker, John A., assignor.)
American Steel & Wire Company, The. (See Sturdevant, Charles R., assignor.)
American Steel & Wire Company of New Jersey, The. (See Berg and Fray, assignors.)
American Steel & Wire Company of New Jersey, The. (See Tångring, Olof, assignor.)
American Stoker Company, The. (See Wood, Wilfred R., assignor.)
American Stove Company. (See Blackford, Atwell J., assignor.)
American Stove Company. (See Fritz, Herman C., assignor.)
American Stove Company. (See Harvey, John G., assignor.)
American Stove Company. (See Hoffman, Rudolph, assignor.)
American Street Cleaner Company. (See Jones, Alva D., assignor.)
American Street and Station Indicator Company. (See Spindler, Perry T., assignor.)
American Table Protector Company, The. (See McKay, John L., assignor.)
American Tar Company. (See Price, Charles P., assignor.)
American Telegraph Typewriter Company. (See Cardwell, George A., assignor.)
American Telephone and Telegraph Company. (See Blauvelt, William G., assignor.)
American Telephone and Telegraph Company. (See Campbell and Shaw, assignors.)
American Telephone and Telegraph Company. (See Gray, Ernest A., assignor.)
American Telephone and Telegraph Company. (See Shaw, Thomas, assignor.)
American Textile Appliances Company. (See Kean, Arthur, assignor.)
American Thermos Bottle Company. (See Perry, Charles H., assignor.)
American Thread Company, The. (See Livermore, Arthur C., assignor.)
American Tire & Rubber Company, The. (See Butler, James L., assignor.)
American Tobacco Company, The. (See Tucker, Benjamin W., assignor.)
American Tool & Machine Company. (See Adams, Comfort A., assignor.)
American Tool Works Co., The. (See Schatz, Herman W., assignor.)
American Transmitter and Manufacturing Company, The. (See Hayes, Benjamin P., assignor.)
American Trolley Retriever Company, The. (See Levens and Whatley, assignors.)
American Type Founders Company. (See Pinkham and Babb, assignors.)
American Type Founders Company. (See White, Charles E., assignor.)
American Typographic Corporation. (See Richards, Francis H., assignor.)
American Typewriter Company. (See Payne and Wray, assignors.)
American Universal Mill Company. (See Grey, Henry, assignor.)
American Valve & Meter Company, The. (See Anderson, Frank C., assignor.)
American Watch Tool Company. (See Bowers, George W., assignor.)
American Water Supply Company of New England. (See Hussey, Alfred R., assignor.)
American Well Works, The. (See Holmes, Robert E. L., assignor.)
American Wood Working Machinery Co. (See Clement and Whipple, assignors.)
American Wood Working Machinery Co. (See Whipple, Leland B., assignor.)
Ames, Arthur N., Franklin Falls, N. H., assignor to Acme Knitting Machine & Needle Company. Drop-stitch and lacework mechanism for circular-knitting machines. No. 981,351; Jan. 10; Sp. p. 2696; Gaz. vol. 162; p. 438.
Ames, Arthur R., La Grange, Ill. Type-writing machine. No. 1,011,551; Dec. 12; Sp. p. 2594; Gaz. vol. 173; p. 439.
Ames, F. F., *et al.* (See Murrin, William E., assignor.)
Ames, Franklin, Chicago, Ill. Combination stair and hall carpet. No. 985,490; Feb. 28; Sp. p. 4863; Gaz. vol. 163; p. 863.
Ames, John F., Cleveland, Ohio. Paper bag. No. 998,319; July 18; Sp. p. 3766; Gaz. vol. 168; p. 669.
Ames, Joseph H., Oak Park, assignor to American Car & Foundry Company, Chicago, Ill. Built-up male die. No. 996,601; July 4; Sp. p. 1; Gaz. vol. 168; p. 3.
Ames, Oscar H., Coal Hill, assignor of one-half to R. McCalmont, Franklin, Pa. Jack-truck. No. 983,418; Feb. 7; Sp. p. 334; Gaz. vol. 163; p. 57.
Ames, Oscar H., Coal Hill, assignor of one-half to R. McCalmont, Franklin, Pa. Jack. No. 983,419; Feb. 7; Sp. p. 338; Gaz. vol. 163; p. 57.
Ames, Rufus, assignor to American Power and Light Company, Spokane, Wash. Water-motor. No. 981,514; Jan. 10; Sp. p. 3028; Gaz. vol. 162; p. 493.
Ames Steel Lath Company. (See Curtis, Lewis E., assignor.)
Ames, William A., assignor to The Sheffield Dentifrice Company, New London, Conn. Printing-press. No. 982,199; Jan. 17; Sp. p. 4468; Gaz. vol. 162; p. 749.
Amesbury Brass & Foundry Company. (See Miller, William, assignor.)
Amesbury Metal Body Company. (See England, Fred, assignor.)
Amess, Agness, St. Louis, Mo. Potato digger and harvester. No. 1,010,106; Nov. 28; Sp. p. 5423; Gaz. vol. 172; p. 972.
Amidon, William S., Milwaukee, assignor to National Mailing & Mfg. Co., Racine, Wis. Paper-feeding machine. No. 989,103; Apr. 11; Sp. p. 1704; Gaz. vol. 165; p. 297.
Amlie, Paul W., Binford, N. D. Game apparatus. No. 994,629; June 6; Sp. p. 1091; Gaz. vol. 167; p. 182.
Ammons, Ralph W., Los Angeles, Cal. Nut-locking washer. No. 997,359; July 11; Sp. p. 1608; Gaz. vol. 168; p. 291.
Ammons, Ralph W., Los Angeles, Cal. Medical applicator. No. 1,006,341; Oct. 17; Sp. p. 3908; Gaz. vol. 171; p. 683.
Amo, Walter L., Knox, Pa. Automatic desk. No. 1,009,373; Nov. 21; Sp. p. 3919; Gaz. vol. 172; p. 679.
Amoroso, F. C. (See Benedictis, Tommaso de, assignor.)
Amory, Arthur, Boston, Mass. Elevator-controlling means. No. 982,457; Jan. 24; Sp. p. 5058; Gaz. vol. 162; p. 873.
Amrein, August, Philadelphia, Pa. Apparatus for dyeing. No. 997,360; July 11; Sp. p. 1609; Gaz. vol. 168; p. 292.
Amsbary, William N., Denver, Colo. Refrigerator. No. 990,182; Apr. 18; Sp. p. 4033; Gaz. vol. 165; p. 695.

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Amsler, Walter O., Pittsburgh, Pa. Reversing-valve for regenerative furnaces. No. 1,009,822; Nov. 28; Sp. p. 4850; Gaz. vol. 172; p. 876.
Amsterdamsche Maatschappij tot Exploitatie van Uitvindingen. (See Van Keep, Paulus F., assignor.)
Amstutz, Noah S., Cleveland, Ohio. Illustrative telegraphy. No. 1,011,141; Dec. 12; Sp. p. 1663; Gaz. vol. 173; p. 293.
Amy, Edwin M., Seattle, Wash. Windmill. No. 998,446; July 18; Sp. p. 4016; Gaz. vol. 168; p. 713.
Anck, John M., deceased, Philadelphia, Pa.; W. Anck, administrator, assignor of one-twelfth to J. A. Wiedersheim, one-twelfth to W. C. Wiederseim, one-twelfth to E. H. Fairbanks, and one-fourth to W. S. Jackson. Electric mercury-vapor lamp. No. 998,223; July 18; Sp. p. 3517; Gaz. vol. 168; p. 632.
Anck, William, administrator. (See Anck, John M.)
Anderberg, Thomas E., and A. R. Gardner, Sandy, Utah. Weed and insect destroyer. No. 992,140; May 16; Sp. p. 2771; Gaz. vol. 166; p. 519.
Andersen, Anders J., Philadelphia, Pa. Extension-table. No. 1,004,961; Oct. 3; Sp. p. 883; Gaz. vol. 171; p. 145.
Andersen, Hansine, Coulee City, Wash. Strainer. No. 989,473; Apr. 11; Sp. p. 2492; Gaz. vol. 165; p. 422.
Andersen, Jakob, and C. Dam, Gordon, Nebr. School-desk. No. 996,044; June 27; Sp. p. 4243; Gaz. vol. 167; p. 771.
Andersen, Johan M., assignor to Albert and J. M. Anderson Manufacturing Company, Boston, Mass. Electrical connection. No. 985,241; Feb. 28; Sp. p. 4303; Gaz. vol. 163; p. 778.
Andersen, Johan M., assignor to Albert and J. M. Anderson Manufacturing Company, Boston, Mass. End-cell switch. No. 996,960; July 4; Sp. p. 751; Gaz. vol. 168; p. 123.
Andersen, John. (See Olsen, Pedersen, and Andersen.)
Andersen, Nils P. E., Milwaukee, Wis., assignor of one-half to J. R. W. Anderson, Chicago, Ill. Clam-shell bucket. No. 985,317; Feb. 28; Sp. p. 4462; Gaz. vol. 163; p. 803.
Andersen, Otto. (See Morse and Andersen.)
Andersen, Wilford E., Imbler, Oreg. Automobile lamp control. No. 982,112; Jan. 17; Sp. p. 4317; Gaz. vol. 162; p. 720.
Anderson, Adolph J., Houston, Minn. Attachment for planters. No. 984,731; Feb. 21; Sp. p. 3221; Gaz. vol. 163; p. 570.
Anderson, Albert, Glenwood, Minn. Clevis connection. No. 1,008,771; Nov. 14; Sp. p. 2591; Gaz. vol. 172; p. 434.
Anderson, Albert S., Schenectady, N. Y., assignor to General Electric Company. Bucket structure for turbines. No. 980,732; Jan. 3; Sp. p. 1193; Gaz. vol. 162; p. 190.
Anderson, Alexander B., Topeka, Kans. Four-way cock. No. 987,939; Mar. 28; Sp. p. 4661; Gaz. vol. 164; p. 835.
Anderson, Alexander P., Chicago, Ill. Treating maize or Indian corn. No. 990,093; Apr. 18; Sp. p. 3843; Gaz. vol. 165; p. 665.
Anderson, Alfred, assignor to Concord Company, Chicago, Ill. Stopping device for player-motors. No. 1,011,552; Dec. 12; Sp. p. 2596; Gaz. vol. 173; p. 439.
Anderson, Alfred, assignor to Concord Company, Chicago, Ill. Player tempo-regulator. No. 1,011,553; Dec. 12; Sp. p. 2598; Gaz. vol. 173; p. 439.
Anderson, Andren W., Pittsburg, Pa. Device for handling sealing-paper. No. 1,000,571; Aug. 15; Sp. p. 2917; Gaz. vol. 169; p. 534.
Anderson, Andrew J., Galesburg, Ill. Wall-safe. No. 990,469; Apr. 25; Sp. p. 4716; Gaz. vol. 165; p. 829.
Anderson, Andrew M. (See Mowry and Anderson.)
Anderson, Andrew W., Chicago, Ill. Locomotive-superheater. No. 1,010,107; Nov. 28; Sp. p. 5427; Gaz. vol. 172; p. 973.
Anderson, Anthony N., Jacksonville, Fla. Gravity-hinge. No. 983,015; Jan. 31; Sp. p. 6246; Gaz. vol. 162; p. 1087.
Anderson, Anthony N., Jacksonville, Fla., assignor of one-half to International Patent, Investment & Manufacturing Co., Livingston, Mont. Fan attachment for chairs. No. 987,684; Mar. 28; Sp. p. 4067; Gaz. vol. 164; p. 747.
Anderson, Anthony N., Albany, Ga., and F. W. Frank, Wilkes-Barre, Pa. Blow-off valve. No. 980,392; Jan. 3; Sp. p. 437; Gaz. vol. 162; p. 76.
Anderson, Anton, Eureka, Cal. Paint-bucket holder. No. 989,104; Apr. 11; Sp. p. 1706; Gaz. vol. 165; p. 298.
Anderson, August, Ponderay, Idaho. Oscillating water-motor. No. 988,426; Apr. 4; Sp. p. 290; Gaz. vol. 165; p. 47.
Anderson, Axel J., and G. W. Goff, East Hampton, Conn.; said Anderson assignor to said Goff. Work-holder. No. 995,759; June 20; Sp. p. 3649; Gaz. vol. 167; p. 637.
Anderson-Barngrover Mfg. Co. (See Anderson, William C., assignor.)
Anderson-Barngrover Mfg. Co. (See Anderson and Duncan, assignors.)
Anderson, Benjamin F. (See Barr, George, assignor.)
Anderson, Bernard G., Appomattox, Va. Drive mechanism for motor-cycles. No. 985,877; Mar. 7; Sp. p. 248; Gaz. vol. 164; p. 40.
Anderson, Calvin M., Columbus, Ohio. Dress-frame. No. 980,179; Jan. 3; Sp. p. 2; Gaz. vol. 162; p. 3.
Anderson, Carl A. (See Cobb, Leon H., assignor.)
Anderson, Carl A., Rosalia, Wash. Hall-tree. No. 1,007,765; Nov. 7; Sp. p. 252; Gaz. vol. 172; p. 41.
Anderson, Carl E., East Orange, N. J. Bending-machine. No. 1,008,404; Nov. 14; Sp. p. 1737; Gaz. vol. 172; p. 305.
Anderson, Cecil R., Bellevue, Pa. Brace. No. 980,733; Jan. 3; Sp. p. 1195; Gaz. vol. 162; p. 191.
Anderson, Charles. (See Quimby and Anderson.)
Anderson, Charles A. (See Wenneborg, Henry, Jr., assignor.)
Anderson, Charles A., Chicago, Ill. Heat-actuated gas-pump. No. 987,938; Mar. 28; Sp. p. 4658; Gaz. vol. 164; p. 834.
Anderson, Charles A., East Orange, N. J., assignor to W. A. Anderson & Co., New York, N. Y. Tray. No. 1,004,334; Sept. 26; Sp. p. 4726; Gaz. vol. 170; p. 836.
Anderson, Charles C., assignor to Uhler Motor Co., St. Joseph, Mo. Rod-packing. No. 996,446; June 27; Sp. p. 5187; Gaz. vol. 167; p. 908.
Anderson, Charles H., Seattle, Wash. Folding door. No. 992,532; May 16; Sp. p. 3659; Gaz. vol. 166; p. 657.
Anderson, Charles H., Wolf Island, Mo. Packing-ring for steam-engines. No. 1,010,212; Nov. 28; Sp. p. 5632; Gaz. vol. 172; p. 1008.
Anderson, Charles J., Menomonie, Wis. Carrier. No. 991,411; May 2; Sp. p. 1242; Gaz. vol. 166; p 208.
Anderson, Charles O., assignor of two-thirds to A. T. Austin, Omaha, Nebr. Railway-switch. No. 1,005,790; Oct. 17; Sp. p. 2663; Gaz. vol. 171; p. 489.
Anderson, Charles O., assignor of two-thirds to A. T. Austin, Omaha, Nebr. Railway-switch instrument. No. 1,011,554; Dec. 12; Sp. p. 2601; Gaz. vol. 173; p. 440.
Anderson, Charles V., Salt Lake City, Utah. Brush-handle. No. 1,009,883; Nov. 28; Sp. p. 4960; Gaz. vol. 172; p. 896.
Anderson, Christian A., assignor of one-half to Appleton Machine Company, Appleton, Wis. Mechanism for curing and preparing grasses for packing-pads and upholstery purposes. No. 1,005,764; Oct. 10; Sp. p. 2607; Gaz. vol. 171; p. 449.
Anderson, Christian A., Appleton, assignor to Oshkosh Grass Pad Company, Oshkosh, Wis. Machine for making packing-pads. No. 1,006,452; Oct. 24; Sp. p. 4156; Gaz. vol. 171; p. 751.
Anderson, Clarence A., Salina, assignor to The Anderson Electric & Manufacturing Co., Wichita, Kans. Party-line telephone-exchange. No. 980,857; Jan. 3; Sp. p. 1443; Gaz. vol. 162; p. 232.
Anderson, Claues A., St. Charles, Ill. Mold for forming concrete silos. No. 984,993; Feb. 21; Sp. p. 3716; Gaz. vol. 163; p. 657.
Anderson, Cyrus N., trustee. (See Selah, Howard A., assignor.)
Anderson, Davis C., La Prairie, Minn. Stump-exterminator. No. 1,012,962; Dec. 26; Sp. p. 5725; Gaz. vol. 173; p. 1004.
Anderson, Doctor F., Los Angeles, Cal. Container or receptacle. No. 1,000,880; Aug. 15; Sp. p. 3582; Gaz. vol. 169; p. 643.
Anderson, Doctor F., Los Angeles, Cal. Container or receptacle. No. 1,006,342; Oct. 17; Sp. p. 3910; Gaz. vol. 171; p. 684.
Anderson, Edward, Dayton, Ohio. Hose-reel. No. 1,011,397; Dec. 12; Sp. p. 2240; Gaz. vol. 173; p. 382.
Anderson, Edward N., Chicago, Ill. Card-case. No. 982,758; Jan. 24; Sp. p. 5665; Gaz. vol. 162; p. 971.
Anderson, Edward W. (See Brust, Albert G., assignor.)
Anderson, Edward W., Washington, D. C. Article of food. No. 1,000,357; Aug. 15; Sp. p. 2429; Gaz. vol. 169; p. 457.
Anderson Electric & Manufacturing Co., The. (See Anderson, Clarence A., assignor.)
Anderson Electric and Manufacturing Company, The. (See Norstrom, Samuel A., assignor.)
Anderson, Elias B., Rock Falls, Ill. Nut-lock. No. 995,760; June 20; Sp. p. 3650; Gaz. vol. 167; p. 637.
Anderson, Eric, and G. B. Thomas, assignors to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,003,860; Sept. 19; Sp. p. 3633; Gaz. vol. 170; p. 645.
Anderson, Frank A., assignor of one-half to W. D. Allen, Buffalo, N. Y. Pipe-cutter. No. 996,602; July 4; Sp. p. 3; Gaz. vol. 168; p. 3.
Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Valve mechanism for water-columns. No. 981,352; Jan. 10; Sp. p. 2705; Gaz. vol. 162; p. 438.
Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Operating means for switch safety mechanisms. No. 994,108; June 6; Sp. p. 7; Gaz. vol. 167; p. 4.
Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Bridge-valve mechanism for supplying locomotives with water. No. 995,584; June 20; Sp. p. 3254; Gaz. vol. 167; p. 575.
Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Interlocking switch-stand. No. 1,007,514; Oct. 31; Sp. p. 6514; Gaz. vol. 171; p. 1178.

Alphabetical list of patentees—Continued.

Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Switch-stand. No. 1,008,003; Nov. 7; Sp. p. 778; Gaz. vol. 172; p. 123.
Anderson, Fred E., Osage City, Kans. Loading apparatus. No. 1,009,033; Nov. 21; Sp. p. 3140; Gaz. vol. 172; p. 557.
Anderson, George A. (See Rassmussen and Anderson.)
Anderson, George B., Rosbys Rock, W. Va. Rail-joint. No. 985,096; Feb. 21; Sp. p. 3923; Gaz. vol. 163; p. 693.
Anderson, George C., *et al.* (See Hall, Thomas F., assignor.)
Anderson, George J., West Chazy, N. Y. Starting device for internal-combustion engines. No. 999,195; Aug. 1; Sp. p. 3; Gaz. vol. 169; p. 3.
Anderson, George S., assignor to Elliott-Fisher Company, Harrisburg, Pa. Combined type-writer cover and copy-holder. No. 999,539; Aug. 1; Sp. p. 685; Gaz. vol. 169; p. 117.
Anderson, Gus E. (See Lundghren and Anderson.)
Anderson, Gust, assignor of one-half to A. Landen, Spokane, Wash. Protector-block. No. 1,000,767; Aug. 15; Sp. p. 3343; Gaz. vol. 169; p. 603.
Anderson, Gustaf A., Kansas City, Kans. Nozzle. No. 1,002,210; Sept. 5; Sp. p. 1; Gaz. vol. 170; p. 3.
Anderson, Gustaf A., assignor to The Geiser Manufacturing Company, Waynesboro, Pa. Road-engine. No. 980,393; Jan. 3; Sp. p. 439; Gaz. vol. 162; p. 76.
Anderson, Gustaf A., assignor to The Geiser Manufacturing Company, Waynesboro, Pa. Scraper for road-engine wheels. No. 983,196; Jan. 31; Sp. p. 6589; Gaz. vol. 162; p. 1146.
Anderson, Gustaf A., assignor to The Geiser Manufacturing Company, Waynesboro, Pa. Steering mechanism for road-engines. No. 983,197; Jan. 31; Sp. p. 6591; Gaz. vol. 162; p. 1146.
Anderson, Gustaf A., assignor to The Geiser Manufacturing Company, Waynesboro, Pa. Steering mechanism for road-engines. No. 990,794; Apr. 25; Sp. p. 5456; Gaz. vol. 165; p. 939.
Anderson, Gustav E., South Bend, Ind. Making molds. No. 1,002,355; Sept. 5; Sp. p. 408; Gaz. vol. 170; p. 58.
Anderson, Gustave, assignor of one-third to R. Dexter and one-third to J. Taylor, Berlin Mills, N. H. Slab-barking machine. No. 1,009,950; Nov. 28; Sp. p. 5097; Gaz. vol. 172; p. 919.
Anderson, Haldor A., Ortley, S. D. Photographic-printing machine. No. 989,105; Apr. 11; Sp. p. 1707; Gaz. vol. 165; p. 298.
Anderson, Hans J., Lake Mills, Mo. End-gate. No. 982,560; Jan. 24; Sp. p. 5254; Gaz. vol. 162; p. 906.
Anderson, Harold B. (See Winton and Anderson.)
Anderson, Harold N., Dayton, Ohio. Gear-rolling machine. No. 1,001,799; Aug. 29; Sp. p. 5550; Gaz. vol. 169; p. 1019.
Anderson, Harry B., Chicago, Ill. Folding umbrella. No. 990,329; Apr. 25; Sp. p. 4398; Gaz. vol. 165; p. 778.
Anderson, Homer, Peekskill, N. Y. Heater. No. 981,353; Jan. 10; Sp. p. 2707; Gaz. vol. 162; p. 439.
Anderson, Isaac, Dorchester, Mass. Show-case. No. 986,667; Mar. 14; Sp. p. 1940; Gaz. vol. 164; p. 342.
Anderson, James D., Northport, Wash. Gate-latch. No. 988,427; Apr. 4; Sp. p. 291; Gaz. vol. 165; p. 48.
Anderson, Jane, New York, N. Y. Device for cleaning water-closet and other bowls. No. 981,354; Jan. 10; Sp. p. 2709; Gaz. vol. 162; p. 439.
Anderson, John, Jr. (See Smith, Russell, Anderson, and Grimes.)
Anderson, John, West Mount Vernon, Me. Flying-machine. No. 984,255; Feb. 14; Sp. p. 2187; Gaz. vol. 163; p. 370.
Anderson, John, Lincoln, Kans. Sled. No. 1,001,498; Aug. 22; Sp. p. 4903; Gaz. vol. 169; p. 886.
Anderson, John A., Bridgeport, Conn. Chime-whistle. No. 981,604; Jan. 17; Sp. p. 3216; Gaz. vol. 162; p. 546.
Anderson, John A., assignor to Canfield Rubber Company, Bridgeport, Conn. Machine for cutting rubber disks, &c. No. 988,616; Apr. 4; Sp. p. 705; Gaz. vol. 165; p. 112.
Anderson, John A., and C. E. McElwee, Philadelphia, Pa. Car-fender. No. 998,224; July 18; Sp. p. 3518; Gaz. vol. 168; p. 633.
Anderson, John H., St. Paul, Minn. Harrow. No. 995,650; June 20; Sp. p. 3403; Gaz. vol. 167; p. 599.
Anderson, John H., St. Paul, Minn. Bob-sled runner. No. 997,226; July 4; Sp. p. 1322; Gaz. vol. 168; p. 216.
Anderson, John H., St. Paul, Minn. Harrow. No. 998,826; July 25; Sp. p. 4859; Gaz. vol. 168; p. 878.
Anderson, John H., St. Paul, Minn. Hay-stacker. No. 1,003,390; Sept. 12; Sp. p. 2622; Gaz. vol. 170; p. 450.
Anderson, John S., Marble township, Lincoln county, Minn. Trap. No. 1,000,358; Aug. 15; Sp. p. 2430; Gaz. vol. 169; p. 457.
Anderson, John W. (See Witherell, Loren R., assignor.)
Anderson, Jonas W., Brandon, S. D. Hen's nest. No. 1,010,213; Nov. 28; Sp. p. 5633; Gaz. vol. 172; p. 1008.
Anderson, Joseph, Providence, R. I. Shuttle-threader. No. 1,009,623; Nov. 21; Sp. p. 4423; Gaz. vol. 172; p. 762.
Anderson, Julius R. W. (See Andersen, Nils P. E., assignor.)
Anderson, Lars, Chicago, Ill. Carbureter. No. 997,255; July 4; Sp. p. 1377; Gaz. vol. 168; p. 226.
Anderson, Lee, Paris, Tex. Knockdown crate. No. 1,003,686; Sept. 19; Sp. p. 3286; Gaz. vol. 170; p. 588.
Anderson, Louis, Chicago, Ill. Knotter for harvesting-machines. No. 984,639; Feb. 21; Sp. p. 3022; Gaz. vol. 163; p. 535.
Anderson, Louis, Chicago, Ill. Shock-former for grain-binders. No. 989,940; Apr. 18; Sp. p. 3540; Gaz. vol. 165; p. 615.
Anderson, Louis, Chicago, Ill. Bundle-transfer for grain-binders. No. 989,941; Apr. 18; Sp. p. 3546; Gaz. vol. 165; p. 615.
Anderson, Louis, Chicago, Ill. Belt conveyer. No. 1,000,974; Aug. 22; Sp. p. 3804; Gaz. vol. 169; p. 709.
Anderson, Louis, assignor to North and Judd Manufacturing Company, New Britain, Conn. Clasp. No. 1,008,578; Nov. 14; Sp. p. 2160; Gaz. vol. 172; p. 368.
Anderson, Martin T., Lakeland, Fla. Internal-combustion engine. No. 983,109; Jan. 31; Sp. p. 6437; Gaz. vol. 162; p. 1118.
Anderson, Michael H., assignor of one-third to C. Irving, Denver, Colo. Apparatus for flushing catch-basins. No. 999,140; July 25; Sp. p. 5542; Gaz. vol. 168; p. 985.
Anderson, Millard F., New York, N. Y. Packaging-machine. No. 995,939; June 20; Sp. p. 4027; Gaz. vol. 167; p. 700.
Anderson, Millard F., New York, and G. W. Buchanan, Peekskill, assignors to Standard Oil Cloth Company, New York, N. Y. Tube. No. 986,960; Mar. 14; Sp. p. 2541; Gaz. vol. 164; p. 440.
Anderson, Milton E., Louisville, Ky. Insulator. No. 992,397; May 16; Sp. p. 3382; Gaz. vol. 166; p. 609.
Anderson, Monroe D., *et al.* (See Treese, Albert L., assignor.)
Anderson, Nelson F., Los Angeles, Cal. Means for cooling the interior of refrigerating structures. No. 1,001,574; Aug. 22; Sp. p. 5054; Gaz. vol. 169; p. 911.
Anderson, Oliver H., Sparta, assignor of one-fourth to G. I. Frazier and one-fourth to J. T. Timberlake, Nashville, Tenn. Resilient wheel. No. 981,515; Jan. 10; Sp. p. 3031; Gaz. vol. 162; p. 493.
Anderson, Prince M., Memphis, Tenn. Dimension-gage. No. 999,141; July 25; Sp. p. 5543; Gaz. vol. 168; p. 985.
Anderson, Robert, Cincinnati, Ohio. Concrete structure. No. 1,009,712; Nov. 28; Sp. p. 4617; Gaz. vol. 172; p. 839.
Anderson, Robert, assignor to The Ferro-Concrete Construction Company, Cincinnati, Ohio. Reinforcing means for concrete structures. No. 981,516; Jan. 10; Sp. p. 3032; Gaz. vol. 162; p. 494.
Anderson, Robert D. H., Cincinnati, Ohio. Computing-scale. No. 980,898; Jan. 10; Sp. p. 1580; Gaz. vol. 162; p. 277.
Anderson, Robert H., San Diego, Cal. Recess-bed. No. 984,178; Feb. 14; Sp. p. 1998; Gaz. vol. 163; p. 343.
Anderson, Roy, and W. E. Moltz, Charleston, Ill. Composite roofing. No. 984,518; Feb. 14; Sp. p. 2730; Gaz. vol. 163; p. 458.
Anderson, Sigurd E., Des Moines, Iowa. Ink-well. No. 1,008,297; Nov. 14; Sp. p. 1429; Gaz. vol. 172; p. 267.
Anderson, Swan F., assignor to Rockford Tool Company, Rockford, Ill. Burnishing-machine. No. 987,940; Mar. 28; Sp. p. 4663; Gaz. vol. 164; p. 835.
Anderson Tool Company, The. (See Dunn, Frank P., assignor.)
Anderson, W. T. (See Strealy, William J., assignor.)
Anderson, Willard, Longdale, Okla. Telephone-repeater. No. 997,594; July 11; Sp. p. 2061; Gaz. vol. 168; p. 368.
Anderson, William. (See Strange and Anderson.)
Anderson, William, Parkland, Wash. Lock. No. 1,008,883; Nov. 14; Sp. p. 2802; Gaz. vol. 172; p. 471.
Anderson, William, assignor of thirty-two one-hundredths to W. Fay and G. G. Halloway, Memphis, Tenn., and thirty-five one-hundredths to J. Fitzgerald, St. Louis, Mo. Switch-lock. No. 991,926; May 9; Sp. p. 2341; Gaz. vol. 166; p. 416.
Anderson, William C., San Jose, Cal. Apparatus for maintaining crowned roads. No. 980,394; Jan. 3, Sp. p. 441; Gaz. vol. 162; p. 77.
Anderson, William C., assignor to Anderson-Barngrover Mfg. Co., San Jose, Cal. Conveyer. No. 1,012,046; Dec. 19; Sp. p. 3714; Gaz. vol. 173; p. 647.
Anderson, William C., San Jose, and A. L. Duncan, Fruitvale, assignors to Anderson-Barngrover Mfg. Co., Santa Clara, Cal. Fruit-peeler's table. No. 1,006,422; Oct. 17; Sp. p. 4082; Gaz. vol. 171; p. 712.
Anderson, William H., *et al.* (See Hall, Thomas F., assignor.)
Anderson, William J., *et al.* (See Bell, Dillwyn M., assignor.)
Anderson, William P., New York, N. Y. Automatic sewage-ejector. No. 1,008,884; Nov. 14; Sp. p. 2804; Gaz. vol. 172; p. 472.
Anderson, William R., Cleveland, Ohio. Bushing. No. 993,745; May 30; Sp. p. 6285; Gaz. vol. 166; p. 1134.
Anderson, William T. (See Furey, William D., assignor.)
Andersson, Carl E. (See Tenow and Andersson.)
Andrade, Cipriano, Jr., New York, N. Y. Propeller-puller. No. 985,491; Feb. 28; Sp. p. 4864; Gaz. vol. 163; p. 863.

Alphabetical list of patentees—Continued.

Andrade, Cipriano, Jr., New York, N. Y. Automatic trip and brake device for windlasses. No. 988,428; Apr. 4; Sp. p. 293; Gaz. vol. 165; p. 48.
Andrae, Ernst H., Dallas, Tex. Aeroplane. No. 1,003,687; Sept. 19; Sp. p. 3287; Gaz. vol. 170; p. 588.
Andre, Emanuel, Marinette, Wis. Cutter-guard. No. 994,898; June 13; Sp. p. 1786; Gaz. vol. 167; p. 314.
Andregg, John G., Lorain, Ohio. Pin for cross-heads or clevises. No. 1,011,398; Dec. 12; Sp. p. 2241; Gaz. vol. 173; p. 383.
Andrejkovitz, Vincent J., Wallingford, Conn. Milk-can lock. No. 1,003,313; Sept. 12; Sp. p. 2473; Gaz. vol. 170; p. 426.
Andren, Fritz L., assignor of one-half to Kindel Bed Company, Chicago, Ill. Settee-bed. No. 992,469; May 16; Sp. p. 3528; Gaz. vol. 166; p. 634.
Andres, J Frank, assignor to United States Safety Gas Machine Company, St. Louis, Mo. Pump-motor. No. 994,101; May 30; Sp. p. 6988; Gaz. vol. 166; p. 1254.
Andres, J Frank, assignor to United States Safety Gas Machine Company, St. Louis, Mo. Measuring device for gas-machines. No. 994,102; May 30; Sp. p. 6992; Gaz. vol. 166; p. 1254.
Andrew, David J., Lawrence, Mass. Concrete building and making the same. No. 983,597; Feb. 7; Sp. p. 747; Gaz. vol. 163; p. 117.
Andrew, Frederick W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-lamp and series-circuit cut-out. No. 1,005,129; Oct. 10; Sp. p. 1185; Gaz. vol. 171; p. 223.
Andrew, Harve T., Memphis, Mo. Jack-seat. No. 1,011,142; Dec. 12; Sp. p. 1665; Gaz. vol. 173; p. 294.
Andrew, James T. (See Chilton, Arthur B., assignor.)
Andrew, James T. (See Williams, Charles F., assignor.)
Andrew, James T., Montgomery, Ala. Safety appliance for railways. No. 985,650; Feb. 28; Sp. p. 5186; Gaz. vol. 163; p. 917.
Andrew, James T., Montgomery, Ala. Railway safety appliance. No. 986,261; Mar. 7; Sp. p. 1065; Gaz. vol. 164; p. 170.
Andrew, James T., Montgomery, Ala. Railway safety device. No. 987,094; Mar. 14; Sp. p. 2780; Gaz. vol. 164; p. 481.
Andrew, James T., Montgomery, Ala. Cross-tie. No. 1,001,333; Aug. 22; Sp. p. 4596; Gaz. vol. 169; p. 831.
Andrew, Walter R., *et al.* (See Vail, Herbert E., assignor.)
Andrew, William E., *et al.* (See Inshaw, John G. and G. R., assignors.)
Andrew, William E., Atlantic Highlands, N. J. Pneumatic tire. No. 1,008,772; Nov. 14; Sp. p. 2592; Gaz. vol. 172; p. 435.
Andrew, William K. (See Waterman, Bradley, and Andrew.)
Andrew, William W., Livingston, Wis. Metallic tie for railway-rails. No. 987,101; Mar. 21; Sp. p. 2798; Gaz. vol. 164; p. 515.
Andrews, Alfred W., assignor to Andrews Wire & Iron Works, Rockford, Ill. Flue-stopper. No. 983,797; Feb. 7; Sp. p. 1153; Gaz. vol. 163; p. 184.
Andrews, Dorsey G., Los Angeles, Cal. Saw-jointing tool. No. 982,458; Jan. 24; Sp. p. 5059; Gaz. vol. 162; p. 873.
Andrews, Elbert J. (See Andrews, George C., assignor.)
Andrews Floor Planing and Surfacing Company. (See Bagalio, Andrew A., assignor.)
Andrews, George C., assignor to E. J. Andrews, New York, N. Y. Means for holding and adjusting printing-plates on a base-plate. No. 998,447; July 18; Sp. p. 4018; Gaz. vol. 168; p. 713.
Andrews, Harry I., assignor of forty one-hundredths to C. A. Davis, Darien, Conn. Desiccating milk. No. 1,012,578; Dec. 26; Sp. p. 4835; Gaz. vol. 173; p. 872.
Andrews, Hiram B., Melrose, assignor of one-half to J. B. Simpson, Newton, Mass. Tamping implement. No. 981,517; Jan. 10; Sp. p. 3033; Gaz. vol. 162; p. 494.
Andrews, James F., Rosalia, Wash. Animal-trap. No. 1,011,304; Dec. 12; Sp. p. 2046; Gaz. vol. 173; p. 351.
Andrews, James H., and J. W. Broski; said Broski assignor of one-eighth to C. B. Davis, Richmond, Va. Automobile-wheel. No. 991,045; May 2; Sp. p. 451; Gaz. vol. 166; p. 78.
Andrews, Lewis G. (See Hopkins, John S., assignor.)
Andrews, Louis, Newton Upper Falls, Mass. Heel. No. 988,060; Mar. 28; Sp. p. 4931; Gaz. vol. 164; p. 875.
Andrews, Lyman, Dundee, Ill. Combined receptacle and measuring device. No. 1,005,130; Oct. 10; Sp. p. 1187; Gaz. vol. 171; p. 223.
Andrews, Paul I., Kennebunk, Me. Mandrel for seamless tubes of shrinkable material. No. 998,004; July 25; Sp. p. 5283; Gaz. vol. 168; p. 941.
Andrews, Paul I., Kennebunk, Me. Boat. No. 1,001,601; Aug. 29; Sp. p. 5127; Gaz. vol. 169; p. 951.
Andrews, Robert C., High Point, N. C. Fireplace-grate. No. 989,474; Apr. 11; Sp. p. 2493; Gaz. vol. 165; p. 422.
Andrews, Robert L., Beaumont, Tex. Tree and brush cutter. No. 984,412; Feb. 14; Sp. p. 2494; Gaz. vol. 163; p. 422.
Andrews, Thomas E., Jr., Franklin, Tenn. Wire fence. No. 1,003,312; Sept. 12; Sp. p. 2471; Gaz. vol. 170; p. 426.
Andrews, William, New York, N. Y. Hot-water radiator. No. 989,751; Apr. 18; Sp. p. 3124; Gaz. vol. 165; p. 549.
Andrews, William S., and T. Van Aller, Schenectady, N. Y. Igniting device. No. 985,097; Feb. 21; Sp. p. 3925; Gaz. vol. 163; p. 693.
Andrews, William S., and T. Van Aller, Schenectady, N. Y. Igniting device. No. 985,098; Feb. 21; Sp. p. 3926; Gaz. vol. 163; p. 694.
Andrews Wire & Iron Works. (See Andrews, Alfred W., assignor.)
Andrews Wire and Iron Works. (See Dennis, Elmer L., assignor.)
Andriano, Albert K., assignor to Direct-Line General Telephone Company, San Francisco, Cal. Secret-service-telephone circuits and switching mechanism. No. 986,889; Mar. 14; Sp. p. 2412; Gaz. vol. 164; p. 417.
Andrus, George S., assignor to Apsley Rubber Company, Hudson, Mass. Hood for capes or other garments. No. 981,738; Jan. 17; Sp. p. 3484; Gaz. vol. 162; p. 590.
Andrychewicz, Stefan, Warsaw, Russia. Apparatus for crushing cabbage, grapes, and the like. No. 992,632; May 16; Sp. p. 3876; Gaz. vol. 166; p. 691.
Anfinson, Lars A., Clermont, Iowa. Wireless check-row corn-planter. No. 1,000,705; Aug. 15; Sp. p. 3219; Gaz. vol. 169; p. 582.
Angebrandt, Hubert, Jr., Toledo, Ohio. Thermostatic temperature-regulator for glue-heaters. No. 1,007,172; Oct. 31; Sp. p. 5785; Gaz. vol. 171; p. 1058.
Angel, Albert, Rochester, N. Y. Transit. No. 1,010,339; Nov. 28; Sp. p. 5894; Gaz. vol. 172; p. 1050.
Angell, Emmett D., Corvallis, Oreg. Exercising device No. 1,005,791; Oct. 17; Sp. p. 2668; Gaz. vol. 171; p. 489.
Angell, Stephen H., New York, N. Y. Nail-set. No. 983,798; Feb. 7; Sp. p. 1154; Gaz. vol. 163; p. 184.
Angelo, Wallace P., San Francisco, Cal. Fruit-basket. No. 986,341; Mar. 7; Sp. p. 1216; Gaz. vol. 164; p. 197.
Anger, Franz. (See Müller and Anger.)
Anger, John E., Preston, England. Suspension of railway and tramway vehicle-trucks. No. 1,008,103; Nov. 7; Sp. p. 982; Gaz. vol. 172; p. 158.
Angermeier, Joseph O., Inglefield, Ind. Acetylene-gas generator. No. 1,007,909; Nov. 7; Sp. p. 594; Gaz. vol. 172; p. 92.
Angermüller, Eduard. (See Beck and Angermüller.)
Angerstein, Josef, and W. Bürgerhausen, München-Gladbach, Germany. Pneumatic door-latch-operating mechanism. No. 990,213; Apr. 25; Sp. p. 4115; Gaz. vol. 165; p. 737.
Angier, Edward H., Quincy, Mass. Means for making composite sheet material. No. 997,173; July 4; Sp. p. 1217; Gaz. vol. 168; p. 197.
Angle, Edward H., New London, Conn., and J. L. Young, New Rochelle, N. Y. Dental tooth-regulating appliance. No. 1,005,131; Oct. 10; Sp. p. 1190; Gaz. vol. 171; p. 224.
Anglo American Provision Company, The. (See Cowin, Frederick, assignor.)
Anglo French Exploration Company, The. (See Arbuckle, Alexander J., assignor.)
Angood, Ney, Rockport, Wash. Safety-envelop. No. 1,012,579; Dec. 26; Sp. p. 4838; Gaz. vol. 173; p. 872.
Angst, Adolf, Schaffhausen, Switzerland. Elastic wheel. No. 1,000,975; Aug. 22; Sp. p. 3805; Gaz. vol. 169; p. 709.
Aniline Color and Extract Works, The, formerly John R. Geigy. (See Richard, Bernhard, assignor.)
Ankeny, Arthur W., Indiana, Pa. Adjustable work-support. No. 1,011,707; Dec. 12; Sp. p. 2948; Gaz. vol. 173; p. 493.
Anker-Holth, Severin C., Riverside, Ill. Cream-separator. No. 1,006,174; Oct. 17; Sp. p. 3531; Gaz. vol. 171; p. 626.
Anker-Holth, Severin C., Riverside, Ill. Flying-machine. No. 1,011,143; Dec. 12; Sp. p. 1666; Gaz. vol. 173; p. 294.
Anker-Werke Actiengesellschaft vormals Hengstenberg & Co. (See Trog, Carl, assignor.)
Ankrom, Solomon E., McArthur, Ohio. Water-elevator. No. 980,734; Jan. 3; Sp. p. 1196; Gaz. vol. 162; p. 191.
Anliker, Robert, Pierre, S. D. Automatic wagon-brake. No. 985,121; Feb. 28; Sp. p. 3989; Gaz. vol. 163; p. 735.
Annable-Fitzgerald Engineering and Manufacturing Company. (See FitzGerald, John W., assignor.)
Annable, Warren W., assignor of one-fourth to F. Z. Pantlind, Grand Rapids, Mich. Tricycle. No. 1,006,518; Oct. 24; Sp. p. 4322; Gaz. vol. 171; p. 775.
Anrep, Aleph, Helsingborg, Sweden. Excavating-machine for digging and conveying peat. No. 980,858; Jan. 3; Sp. p. 1448; Gaz. vol. 162; p. 233.
Anrig, Joseph, West Hoboken, N. J. Tilting furnace-grate. No. 1,012,963; Dec. 26; Sp. p. 5726; Gaz. vol. 173; p. 1005.
Ansley, Frank, Spokane, Wash. Strainer-top for milk-pails. No. 989,752; Apr. 18; Sp. p. 3125; Gaz. vol. 165; p. 549.

Alphabetical list of patentees—Continued.

Anson, Warren J., El Paso, assignor of one-fourth to G. E. Briggs, Ward county, one-fourth to J. Houlihan, and one-fourth to A. M. Walthall, El Paso, Tex. Sleeping-car. No. 983,528; Feb. 7; Sp. p. 576; Gaz. vol. 163; p. 92.
Anspach, Charles, Amherst, Nebr. Air-brake for vehicles. No. 999,732; Aug. 8; Sp. p. 1073; Gaz. vol. 169; p. 214.
Anstadt, Henry, Gettysburg, Pa. Fruit and vegetable grader. No. 1,002,211; Sept. 5; Sp. p. 3; Gaz. vol. 170; p. 3.
Anstey, Arthur H., Utica, N. Y. Tobacco-cutting machine. No. 997,595; July 11; Sp. p. 2062; Gaz. vol. 168; p. 369.
Anstice, Josiah, Rochester, N. Y. Sash-holder. No. 1,011,006; Dec. 5; Sp. p. 1327; Gaz. vol. 173; p. 211.
Antenen, Frederick, Hamilton, Ohio. Egg-tester. No. 994,557; June 6; Sp. p. 948; Gaz. vol. 167; p. 157.
Anthony, Daniel L., San Francisco, Cal. Darning attachment for sewing-machines. No. 1,004,132; Sept. 26; Sp. p. 4321; Gaz. vol. 170; p. 768.
Anthony, Daniel L., San Francisco, Cal. Holder for darning. No. 1,011,007; Dec. 5; Sp. p. 1330; Gaz. vol. 173; p. 212.
Anthony, David E., *et al.* (See Braddock, Isaac A., assignor.)
Anthony, Frank D., *et al.* (See Blakey, Richard M., assignor.)
Anthony, John, Attleboro, Mass. Reinforced puncture-proof tire. No. 1,003,314; Sept. 12; Sp. p. 2475; Gaz. vol. 170; p. 426.
Anthony, Marcus O., Englewood, N. J., assignor, by mesne assignments, to C. H. Walker, New York, N. Y. Telegraphy. No. 1,012,231; Dec. 19; Sp. p. 4134; Gaz. vol. 173; p. 709.
Anthony, Wendell P., Ridley Park, assignor to The Eddystone Manufacturing Company, Philadelphia, Pa. Sewing-machine. No. 1,001,186; Aug. 22; Sp. p. 4279; Gaz. vol. 169; p. 781.
Anticor Mfg. Co. (See Büchner, Hugo, assignor.)
Antisell, Frank L., New York, N. Y., and D. W. Blair, Perth Amboy, N. J. Pump. No. 981,518; Jan. 10; Sp. p. 3034; Gaz. vol. 162; p. 494.
Antoine, Henri, Paris, France. Press. No. 995,516; June 20; Sp. p. 3099; Gaz. vol. 167; p. 551.
Anton, Frank, Bender, Saskatchewan, Canada. Seed-grain steeper. No. 998,942; July 25; Sp. p. 5152; Gaz. vol. 168; p. 920.
Anton, Frederick A., Topeka, Kans. Awning and arm therefor. No. 986,120; Mar. 7; Sp. p. 766; Gaz. vol. 164; p. 124.
Antoni, Guido and U., Pisa, Italy. Propeller. No. 1,002,796; Sept. 5; Sp. p. 1357; Gaz. vol. 170; p. 206.
Antoni, Ugo. (See Antoni, Guido and U.)
Anway, Clifton L., Parsons, Kans. Airship. No. 982,561; Jan. 24; Sp. p. 5256; Gaz. vol. 162; p. 906.
Any Lite Incandescent Lamp Regulator Co., The. (See Johnson, Emery, assignor.)
Apfelbaum, Frederick A., New York, N. Y. Spot-light song and lecture lantern-slide. No. 1,010,214; Nov. 28; Sp. p. 5635; Gaz. vol. 172; p. 1008.
Apostoloff, Serge B. (See Karavodine, Victor de, assignor.)
Appel, Benjamin, and S. S. Goldman, St. Louis, Mo. Vapor-burner. No. 995,107; June 13; Sp. p. 2213; Gaz. vol. 167; p. 385.
Appel, Orville E., Bushton, Kans. Suction priming-cup. No. 993,942; May 30; Sp. p. 6666; Gaz. vol. 166; p. 1199.
Appelberg, Axel, Schenectady, N. Y., assignor to General Electric Company. Tungsten-furnace. No. 1,006,620; Oct. 24; Sp. p. 4562; Gaz. vol. 171; p. 814.
Appelberg, Axel O., Schenectady, N. Y., assignor to General Electric Company. Terminal for incandescing conductors. No. 998,067; July 18; Sp. p. 3181; Gaz. vol. 168; p. 577.
Appelberg, Axel O., Schenectady, N. Y., assignor to General Electric Company. Treating tungsten. No. 1,011,708; Dec. 12; Sp. p. 2951; Gaz. vol. 173; p. 494.
Appelboom, Pieter A. F., assignor of one-half to C. W. H. Van Dam, Rotterdam, Netherlands. Preservation of meat. No. 1,006,175; Oct. 17; Sp. p. 3540; Gaz. vol. 171; p. 626.
Appell, George M. (See Dubus, Jules F., assignor.)
Appelman, Lucian H., Clermont, Iowa. Starting device. No. 1,003,861; Sept. 19; Sp. p. 3634; Gaz. vol. 170; p. 645.
Apple, Vincent G., Dayton, Ohio. Driving mechanism. No. 1,002,191; Aug. 29; Sp. p. 6359; Gaz. vol. 169; p. 1148.
Applebaugh, Eugene M., Danville, Pa. Brake-beam. No. 990,510; Apr. 25; Sp. p. 4844; Gaz. vol. 165; p. 844.
Applebaugh, Eugene M., and J. D. Hockenbury, Danville, Pa. Fulcrum for brake-beams. No. 983,799; Feb. 7; Sp. p. 1155; Gaz. vol. 163; p. 185.
Appleby, F. M., *et al.* (See Erikson, Charles O., assignor.)
Appleby, William H., Bloxwich, England. Automatic coupling for all rolling-stock. No. 991,467; May 9; Sp. p. 1371; Gaz. vol. 166; p. 259.
Applegate, William J., Chicago, Ill. Grain-drier. No. 983,198; Jan. 31; Sp. p. 6593; Gaz. vol. 162; p. 1147.
Appleton Machine Company. (See Anderson, Christian A., assignor.)
Appleton, Walter U., and G. E. McCoy, Moncton, New Brunswick, Canada. Apparatus for removing and replacing car-wheels. No. 1,002,797; Sept. 5; Sp. p. 1358; Gaz. vol. 170; p. 206.
Appleton, William M., Weston-super-Mare, England. Internal-combustion engine. No. 1,004,720; Oct. 3; Sp. p. 379; Gaz. vol. 171; p. 62.
Appley, Elisha D., Liberty, N. Y. Flying-machine. No. 982,700; Jan. 24; Sp. p. 5529; Gaz. vol. 162; p. 952.
Appleyard, George T., and A. M. Robson, Grand Rapids, Mich. Railway-tie. No. 1,007,660; Nov. 7; Sp. p. 1; Gaz. vol. 172; p. 3.
Appleyard, Thomas W. (See Leggett and Appleyard.)
Apsley Rubber Company. (See Andrus, George S., assignor.)
Apt, William E., E. L. Schott, St. Joseph, and W. H. Garland, Kansas City, Mo.; said Garland assignor to said Apt and Schott. Fluid cut-off. No. 994,050; May 30; Sp. p. 6884; Gaz. vol. 166; p. 1236.
Arabol Manufacturing Company, The. (See Weingärtner, Edward, assignor.)
Arakelian, K., *et al.*, trustees. (See Converse, Newton B., assignor.)
Arbeiter, Traugott, Dalton, S. D. Wheel-guard for sulky or gang plows. No. 985,492; Feb. 28; Sp. p. 4864; Gaz. vol. 163; p. 864.
Arbetter Felling Machine Company. (See Arbetter, Wolf, assignor.)
Arbetter, Wolf, Chelsea, assignor to Arbetter Felling Machine Company, Boston, Mass. Presser-foot. No. 996,192; June 27; Sp. p. 4608; Gaz. vol. 167; p. 822.
Arbetter, Wolf, Chelsea, assignor to Arbetter Felling Machine Company, Boston, Mass. Seam for sewed articles. No. 996,552; June 27; Sp. p. 5382; Gaz. vol. 167; p. 942.
Arbetter, Wolf, Chelsea, assignor to Arbetter Felling Machine Company, Boston, Mass. Sewing-machine. No. 1,001,602; Aug. 29; Sp. p. 5128; Gaz. vol. 169; p. 951.
Arbetter, Wolf, Chelsea, assignor to Arbetter Felling Machine Company, Boston, Mass. Seam for sewed articles. No. 1,009,273; Nov. 21; Sp. p. 3692; Gaz. vol. 172; p. 642.
Arbetter, Wolf, Chelsea, assignor to Arbetter Felling Machine Company, Boston, Mass. Seam for sewed articles. No. 1,012,791; Dec. 26; Sp. p. 5319; Gaz. vol. 173; p. 947.
Arble, N. F. (See Reigh, Caleb F., assignor.)
Arbogast, Francis J., assignor to Standard Glass Block Co., Frankfort, Ky. Brick or block and wall construction. No. 997,596; July 11; Sp. p. 2064; Gaz. vol. 168; p. 369.
Arbogast, John I., Pittsburg, Pa. Machine for forming and blowing glass articles. No. 998,735; July 25; Sp. p. 4668; Gaz. vol. 168; p. 846.
Arbogast, John I., Pittsburg, Pa. Glass-batch gatherer. No. 1,000,224; Aug. 8; Sp. p. 2143; Gaz. vol. 169; p. 381.
Arbogast, John I., assignor of one-half to H. L. Collins, Pittsburg, Pa. Machine for producing hollow glass articles. No. 994,710; June 13; Sp. p. 1312; Gaz. vol. 167; p. 249.
Arbogast, John I., assignor of one-half to H. L. Collins, Pittsburg, Pa. Severing glass. No. 1,002,954; Sept. 12; Sp. p. 1734; Gaz. vol. 170; p. 301.
Arbogast, John I., assignor of one-half to H. L. Collins, Pittsburg, Pa. Manufacturing glass case goods. No. 1,002,955; Sept. 12; Sp. p. 1736; Gaz. vol. 170; p. 301.
Arbogast, John I., assignor of one-half to H. L. Collins, Pittsburg, Pa. Manufacturing glass case goods. No. 1,002,956; Sept. 12; Sp. p. 1738; Gaz. vol. 170; p. 301.
Arbron Friction Gear Company. (See Mackey, John C., assignor.)
Arbuckle, Alexander J., Johannesburg, Transvaal. Means for separating pulverized ore or other comminuted solid matter from liquid. No. 988,535; Apr. 4; Sp. p. 522; Gaz. vol. 165; p. 83.
Arbuckle, Alexander J., Johannesburg, Transvaal. Apparatus for treating crushed ore products for the recovery of the metal contents thereof. No. 1,008,513; Nov. 14; Sp. p. 2003; Gaz. vol. 172; p. 342.
Arbuckle, Alexander J., Johannesburg, Transvaal, assignor of one-half to The Anglo French Exploration Company, Limited, London, England. Rotary filtering apparatus. No. 994,235; June 6; Sp. p. 276; Gaz. vol. 167; p. 47.
Arbuckle Brothers. (See Seavey, Eugene, assignor.)
Arburg, George F., Revere, Mass. Apparatus for reducing the thickness of cuts or blocks. No. 991,468; May 9; Sp. p. 1372; Gaz. vol. 166; p. 259.
Arbuthnot, Charles W., Carthage, Mo. Operating mechanism for concentrating-tables. No. 989,106; Apr. 11; Sp. p. 1713; Gaz. vol. 165; p. 298.
Archer, Charles E. W., assignor of one-half to A. A. Waterman, Port of Spain, Trinidad, British West Indies. Non-refillable bottle. No. 988,061; Mar. 28; Sp. p. 4932; Gaz. vol. 164; p. 875.
Archer, James, St. Thomas, N. D. Grain-door for cars. No. 981,150; Jan. 10; Sp. p. 2223; Gaz. vol. 162; p. 366.
Archer, James, Peterborough, England. Driving and brake mechanism for velocipedes. No. 994,359; June 6; Sp. p. 530; Gaz. vol. 167; p. 91.
Archer, James T., Champaign, Ill. Trolley-harp. No. 1,004,962; Oct. 3; Sp. p. 885; Gaz. vol. 171; p. 145.
Archer, Rulison, Bluefield, W. Va. Package and letter seal. No. 982,562; Jan. 24; Sp. p. 5257; Gaz. vol. 162; p. 907.

Archer, Rulison, Bluefield, W. Va. Paint and scale remover. No. 1,004,617; Oct. 3; Sp. p. 154; Gaz. vol. 171; p. 26.
Archer, Samuel B., Saratoga Springs, N. Y. Potato-peeling machine. No. 999,478; Aug. 1; Sp. p. 556; Gaz. vol. 169; p. 98.
Archer, Samuel R., assignor of forty-five one-hundredths to U. S. Wasson and R. A. Hoover, Moorhead, Miss. Wrench. No. 1,004,522; Sept. 26; Sp. p. 5113; Gaz. vol. 170; p. 900.
Archibald, Alba D., Covington, Ky. Mail-elevator. No. 988,429; Apr. 4; Sp. p. 296; Gaz. vol. 165; p. 49.
Archibald, Nevin A., Concord, N. C. Rein-holder. No. 986,890; Mar. 14; Sp. p. 2421; Gaz. vol. 164; p. 418.
Archie, Charles E., Waterloo, Wis. Variable-speed gearing. No. 1,011,555; Dec. 12; Sp. p. 2603; Gaz. vol. 173; p. 440.
Ardern, James L. (See Bennett and Ardern.)
Arend, Francis J., *et al.* (See Berrigan, John J., assignor.)
Arendarczyk, Andrzej, Newark, N. J. Hat-pin fastener and point-protector. No. 1,004,963; Oct. 3; Sp. p. 886; Gaz. vol. 171; p. 146.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Lock and night-latch mechanism. No. 980,180; Jan. 3; Sp. p. 3; Gaz. vol. 162; p. 3.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Door-lock. No. 983,667; Feb. 7; Sp. p. 890; Gaz. vol. 163; p. 141.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Hotel-lock, emergency-cylinder. No. 987,846; Mar. 28; Sp. p. 4405; Gaz. vol. 164; p. 802.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Lock. No. 990,795; Apr. 25; Sp. p. 5457; Gaz. vol. 165; p. 939.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Lock. No. 1,007,627; Oct. 31; Sp. p. 6761; Gaz. vol. 171; p. 1216.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Hotel-lock-cylinder control. No. 1,009,624; Nov. 21; Sp. p. 4425; Gaz. vol. 172; p. 762.
Arens, August, and E. L. Teich, assignors to P. & F. Corbin, New Britain, Conn. Lock. No. 1,010,341; Nov. 28; Sp. p. 5900; Gaz. vol. 172; p. 1050.
Argleben, Theodore. (See Roy and Argleben.)
Arienta, Secondo, Totowa, N. J. Shedding-motion for looms. No. 996,193; June 27; Sp. p. 4609; Gaz. vol. 167; p. 822.
Arkell, Bartlett, Canajoharie, N. Y., assignor of one-fourth to W. A. Lorenz, one-fourth to W. H. Honiss, Hartford, Conn., and one-half to Beech-Nut Packing Company, Canajoharie, N. Y. Hermetic-sealing apparatus. No. 1,002,192; Aug. 29; Sp. p. 6361; Gaz. vol. 169; p. 1149.
Arlington Leather Company, The. (See Mason, Matthew, assignor.)
Arlt, Ferdinand von, Vienna, Austria-Hungary, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Pharmaceutical preparation. No. 991,261; May 2; Sp. p. 930; Gaz. vol. 166; p. 157.
Arlt, Franz, Lübeck, Germany. Machine for notching lids or covers for tubs or buckets. No. 989,753; Apr. 18; Sp. p. 3127; Gaz. vol. 165; p. 550.
Armbrust, Charles W., assignor of one-fourth to S. Stein, Chicago, Ill. Brake-shoe. No. 1,002,480; Sept. 5; Sp. p. 680; Gaz. vol. 170; p. 99.
Armbrust, Charles W., assignor of one-fourth to S. Stein, Chicago, Ill. Brake-shoe. No. 1,010,008; Nov. 28; Sp. p. 5233; Gaz. vol. 172; p. 938.
Armbrust, Charles W., Crystal Lake, assignor of one-fourth to S. Stein, Chicago, Ill. Brake-shoe. No. 1,010,009; Nov. 28; Sp. p. 5234; Gaz. vol. 172; p. 938.
Armbrust, Charles W., Crystal Lake, assignor of one-fourth to S. Stein, Chicago, Ill. Brake-shoe. No. 1,010,010; Nov. 28; Sp. p. 5237; Gaz. vol. 172; p. 938.
Armbrust, Charles W., Crystal Lake, assignor of one-fourth to S. Stein, Chicago, Ill. Brake-shoe. No. 1,010,397; Nov. 28; Sp. p. 6021; Gaz. vol. 172; p. 1067.
Armbrust, Charles W., Crystal Lake, assignor of one-fourth to S. Stein, Chicago, Ill. Brake-shoe. No. 1,010,398; Nov. 28; Sp. p. 6024; Gaz. vol. 172; p. 1068.
Armbruster, Charles A., *et al.* (See Smith, Christian N., assignor.)
Armbruster, Ernst A. (See Armbruster, John C., assignor.)
Armbruster, John C., assignor of one-half to E. A. Armbruster, Minneapolis, Minn. Key-actuating engine-starting crank. No. 1,005,496; Oct. 10; Sp. p. 2021; Gaz. vol. 171; p. 354.
Armentrout, Melvin, Pleasant township, Franklin county, assignor of one-half to J. Ripple, Jackson township, Ohio. Cutting apparatus for mowing or reaping machines. No. 996,825; July 4; Sp. p. 461; Gaz. vol. 168; p. 76.
Armentrout, Richard B., Menardville, Tex. Compound for destroying boll-weevil. No. 987,102; Mar. 21; Sp. p. 2799; Gaz. vol. 164; p. 515.
Armour & Company. (See Deats, Philip, assignor.)
Armour & Company. (See Hersey, Charles H., assignor.)
Armour & Company. (See Pypes, William C., assignor.)
Armspear Manufacturing Company. (See Spear, Furman D., assignor.)
Armstrong, Adam E., *et al.* (See Arner, Otto H., assignor.)
Armstrong, Albert H., Schenectady, N. Y., assignor to General Electric Company. High-speed trolley. No. 1,003,862; Sept. 19; Sp. p. 3636; Gaz. vol. 170; p. 646.
Armstrong, Charles G., Orange, N. J. Apparatus for producing ozone. No. 991,767; May 9; Sp. p. 2006; Gaz. vol. 166; p. 361.
Armstrong, Cloyd L., Lima, Ohio. Drain-valve. No. 984,994; Feb. 21; Sp. p. 3720; Gaz. vol. 163; p. 657.
Armstrong, Edwin J., Erie, Pa. Electric dynamo and motor. No. 1,009,951; Nov. 28; Sp. p. 5099; Gaz. vol. 172; p. 919.
Armstrong, Ernest, Enfield, England. File, rasp, or similar tool. No. 995,761; June 20; Sp. p. 3652; Gaz. vol. 167; p. 638.
Armstrong, Ernest, Camden, N. J., assignor, by mesne assignments, to Journal Lubricator Company, New York, N. Y. Lubricating-wick. No. 1,012,580; Dec. 26; Sp. p. 4839; Gaz. vol. 173; p. 873.
Armstrong, Frank H., Vulcan, Mich., assignor to C. A. Lawton Company, De Pere, Wis. Power-transmission mechanism. No. 997,031; July 4; Sp. p. 939; Gaz. vol. 168; p. 149.
Armstrong, Hamilton. (See Norton, William J., assignor.)
Armstrong, Hannah, Mount Jackson, Va. Pan-remover. No. 980,735; Jan. 3; Sp. p. 1198; Gaz. vol. 162; p. 192.
Armstrong, Harry H., Oakmont, C. H. Curry, Pittsburg, and F. F. Harrold, Homestead, assignors to Standard Steel Box Company, Pittsburg, Pa. Metal box. No. 988,062; Mar. 28; Sp. p. 4933; Gaz. vol. 164; p. 876.
Armstrong, Harry W., Oakmont, assignor to The Pressed Radiator Company of America, Pittsburg, Pa. Radiator connection. No. 981,355; Jan. 10; Sp. p. 2710; Gaz. vol. 162; p. 439.
Armstrong, Harry Y., Elgin, Ill. Mechanism for cutting wrappers from strips. No. 998,736; July 25; Sp. p. 4672; Gaz. vol. 168; p. 846.
Armstrong, Harry Y., Elgin, Ill. Wrapper or sheet feeding mechanism. No. 998,737; July 25; Sp. p. 4677; Gaz. vol. 168; p. 847.
Armstrong, Harry Y., Elgin, Ill. Snap. No. 998,943; July 25; Sp. p. 5153; Gaz. vol. 168; p. 920.
Armstrong, Henry A., New York, N. Y. Advertising device. No. 1,000,318; Aug. 8; Sp. p. 2321; Gaz. vol. 169; p. 412.
Armstrong, James R., assignor of one-third to W. H. Irvin, Pittsburg, Pa. Gas-meter. No. 991,927; May 9; Sp. p. 2343; Gaz. vol. 166; p. 417.
Armstrong, John J., Pittsburg, Pa. Hose-bridge. No. 995,940; June 20; Sp. p. 4030; Gaz. vol. 167; p. 701.
Armstrong, Joseph, Alvo, Nebr. Flue-stop. No. 996,447; June 27; Sp. p. 5188; Gaz. vol. 167; p. 909.
Armstrong, Lyman P., San Jose, Cal. System of heating and ventilating. No. 1,000,065; Aug. 8; Sp. p. 1770; Gaz. vol. 169; p. 326.
Armstrong, Ralph W., New York, N. Y., assignor to Bankers Trust Company, trustee. Electric switch mechanism. No. 1,008,514; Nov. 14; Sp. p. 2007; Gaz. vol. 172; p. 343.
Armstrong, Richard R. (See Thomson and Armstrong.)
Armstrong, Robert B. (See Suits and Armstrong.)
Armstrong, Ulysses S., New Kensington, Pa. Flexible conduit. No. 998,827; July 25; Sp. p. 4860; Gaz. vol. 168; p. 878.
Armstrong, Ulysses S., New Kensington, Pa. Coating of metal articles. No. 1,012,047; Dec. 19; Sp. p. 3716; Gaz. vol. 173; p. 647.
Armstrong, Ulysses S., New Kensington, Pa. Coating metal articles. No. 1,012,048; Dec. 19; Sp. p. 3719; Gaz. vol. 173; p. 647.
Armstrong Ulysses S., New Kensington, Pa. Apparatus for cleaning pipes. No. 1,012,049; Dec. 19; Sp. p. 3723; Gaz. vol. 173; p. 647.
Armstrong, Ulysses S., New Kensington, Pa., and J. H. Parker, Cliftondale, Mass. Flexible conduit. No. 1,002,481; Sept. 5; Sp. p. 682; Gaz. vol. 170; p. 99.
Armstrong, William F., Sumner, Wash. Anticreeping rail-fastener. No. 986,121; Mar. 7; Sp. p. 768; Gaz. vol. 164; p. 124.
Armstrong, William P., Washington, D. C., assignor to The Strong Arm Manufacturing Company. Exercising device. No. 1,007,628; Oct. 31; Sp. p. 6765; Gaz. vol. 171; p. 1217.
Arnaud, Albert L., and S. Posternak, Paris, France, assignors to F. Hoffman-La Roche and Company, Grenznach, Germany. Tariric acid di-iodid. No. 982,656; Jan. 24; Sp. p. 5435; Gaz. vol. 162; p. 938.
Arnaud, Louis C., Forcalquier, France. Change-speed mechanism. No. 999,691; Aug. 1; Sp. p. 972; Gaz. vol. 169; p. 170.
Arnaud, Louis C., Forcalquier, France. Frictional change-of-speed gearing. No. 1,000,881; Aug. 15; Sp. p. 3584; Gaz. vol. 169; p. 644.
Arnaud, Louis C., Forcalquier, France. Frame for frictional change-of-speed gearing. No. 1,012,792; Dec. 26; Sp. p. 5321; Gaz. vol. 173; p. 947.
Arndt, George, Chicago, Ill. Extension-table. No. 1,009,034; Nov. 21; Sp. p. 3142; Gaz. vol. 172; p. 557.
Arndt, Gustave A. (See Woolslair and Arndt.)

Alphabetical list of patentees—Continued.

Arndt, Max, Aix-la-Chapelle, Germany. Device for making measurements by means of flowing liquid. No. 981,151; Jan. 10; Sp. p. 2226; Gaz. vol. 162; p. 367.
Arndt, Max, Aix-la-Chapelle, Germany. Device for indicating the useful pressure in engines. No. 981,152; Jan. 10; Sp. p. 2228; Gaz. vol. 162; p. 367.
Arndt, Max, Aix-la-Chapelle, Germany. Engine-indicator. No. 984,732; Feb. 21; Sp. p. 3222; Gaz. vol. 163; p. 570.
Arndt, William E. (See Quinn and Arndt.)
Arner, Otto H., assignor of one-fourth to A. E. Armstrong and one-fourth to W. H. Timm, Three Rivers, Mich. Steam-trap. No. 1,006,043; Oct. 17; Sp. p. 3233; Gaz. vol. 171; p. 579.
Arnesen, Charlotte, Portland, Oreg. Strainer. No. 1,003,410; Sept. 19; Sp. p. 2658; Gaz. vol. 170; p. 489.
Arneson, Oscar A., assignor to Yale Manufacturing Company, Chicago, Ill. Lamp. No. 985,318; Feb. 28; Sp. p. 4465; Gaz. vol. 163; p. 803.
Arnold, Charles E., assignor of three-fifths to G. G. Griffin, Indianapolis, Ind. Primer for gasolene-engines. No. 992,327; May 16; Sp. p. 3222; Gaz. vol. 166; p. 585.
Arnold, Edwin E., Wilkinsburg, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburg, Pa. Explosive-engine governor. No. 995,651; June 20; Sp. p. 3404; Gaz. vol. 167; p. 599.
Arnold, Elijah B., Genoa, Ill. Corn-harvester attachment. No. 1,000,976; Aug. 22; Sp. p. 3807; Gaz. vol. 169; p. 710.
Arnold, George A., Brooklyn, assignor to The Telepost Company, New York, N. Y. Telegraphic-tape perforator. No. 986,427; Mar. 14; Sp. p. 1423; Gaz. vol. 164; p. 257.
Arnold, Horace W., Vancouver, Wash. Device for taking moisture or other vapors out of gases. No. 985,966; Mar. 7; Sp. p. 452; Gaz. vol. 164; p. 72.
Arnold, John F., Waterbury, Conn. Spring-wheel. No. 993,285; May 23; Sp. p. 5243; Gaz. vol. 166; p. 941.
Arnold, John L., New York, N. Y. Railway rail, rail joint, chair, and tie. No. 1,000,225; Aug. 8; Sp. p. 2146; Gaz. vol. 169; p. 382.
Arnold, John L., New York, N. Y. Railway-tie. No. 1,001,598; Aug. 22; Sp. p. 5117; Gaz. vol. 169; p. 919.
Arnold, Lewis E., Honolulu, Hawaii. Machine for treating pineapples or the like. No. 1,006,621; Oct. 24; Sp. p. 4565; Gaz. vol. 171; p. 814.
Arnold, Nelson B., New York, N. Y. Boot or shoe heel. No. 990,094; Apr. 18; Sp. p. 3847; Gaz. vol. 165; p. 666.
Arnold, Rex E., and C. P. Hockett, Kouts, Ind. Spring-wheel. No. 994,297; June 6; Sp. p. 399; Gaz. vol. 167; p. 68.
Arnold, Samuel C., assignor to The Denver Quartz Mill and Crusher Company, Denver, Colo. Quartz-mill. No. 993,746; May 30; Sp. p. 6286; Gaz. vol. 166; p. 1134.
Arnold, Whiting, Mandarin, Fla. Boat-propelling device. No. 998,593; July 25; Sp. p. 4335; Gaz. vol. 168; p. 795.
Arnold, William B. (See Dunn, George F., assignor.)
Arnold, William B., Abington, Mass. Producing shoe-stiffeners. No. 1,000,483; Aug. 15; Sp. p. 2708; Gaz. vol. 169; p. 502.
Arnoldi, Heinrich. (See Paessler and Arnoldi.)
Arnst, Joseph, Chicago, Ill. Listing-indicator. No. 1,003,863; Sept. 19; Sp. p. 3637; Gaz. vol. 170; p. 646.
Arntz, William P., Youngstown, Ohio. Mail-bag catcher and deliverer. No. 1,011,709; Dec. 12; Sp. p. 2952; Gaz. vol. 173; p. 494.
Aronis, Peter E., San Francisco, Cal. Shoe-cleaning device. No. 984,640; Feb. 21; Sp. p. 3026; Gaz. vol. 163; p. 536.
Aronson, Benjamin. (See Auerbach, Marcus, assignor.)
Aronson, Frank, Evanston, assignor to Central Scientific Company, Chicago, Ill. Galvanometer. No. 998,594; July 25; Sp. p. 4336; Gaz. vol. 168; p. 795.
Aronson, Frank, Evanston, assignor to Central Scientific Co., Chicago, Ill. Vacuum-pump. No. 999,290; Aug. 1; Sp. p. 182; Gaz. vol. 169; p. 35.
Aronson, Louis V., Newark, N. J. Combination-wrench. No. 995,837; June 20; Sp. p. 3822; Gaz. vol. 167; p. 665.
Arps, Fred, New Holstein, Wis. Repeating firearm. No. 998,738; July 25; Sp. p. 4679; Gaz. vol. 168; p. 847.
Arps, William, Malinta, Ohio. Attachment for ditch-digging machines. No. 982,781; Jan. 31; Sp. p. 5716; Gaz. vol. 162; p. 1008.
Arpurth, Charles, Hoboken, N. J. Spring-motor. No. 994,360; June 6; Sp. p. 534; Gaz. vol. 167; p. 92.
Arquembourg, Emil H. (See Grouvelle, Arquembourg, and Joret.)
Arrington, G. M. (See Noell, Charles H., assignor.)
Arrow Electric Company. (See Marshall, Norman, assignor.)
Arrow Electric Company, The. (See Peterson, Johann G., assignor.)
Arrowsmith, James W., Morristown, N. J. Arch-support adjuster. No. 998,225; July 18; Sp. p. 3520; Gaz. vol. 168; p. 633.
Arsem, William C., Schenectady, N. Y., assignor to General Electric Company. Producing calcium. No. 984,503; Feb. 14; Sp. p. 2693; Gaz. vol. 163; p. 452.
Arsem, William C., Schenectady, N. Y., assignor to General Electric Company. Refining metals. No. 998,665; July 25; Sp. p. 4501; Gaz. vol. 168; p. 821.
Arsem, William C., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. No. 1,009,625; Nov. 21; Sp. p. 4429; Gaz. vol. 172; p. 763.
Arsenault, Jerome, and C. Larrivée, St. Flavie, Quebec, Canada. Combined bed and ladder. No. 995,430; June 20; Sp. p. 2919; Gaz. vol. 167; p. 521.
Art Brass Company. (See Pratt, George H., assignor.)
Art Fibre Co. (See Woegerer, Carl, assignor.)
Art Metal Construction Company. (See Bauer, Edward W., assignor.)
Art Metal Construction Company. (See Ohnstrand, Enoch, assignor.)
Arter, William, Richmond Hill, N. Y. Current-collector or trolley. No. 997,597; July 11; Sp. p. 2065; Gaz. vol. 168; p. 369.
Arthur, Paul. (See Graef, Anthony H., assignor.)
Arthurs, Robert, Pittsburg, Pa. Antislipping device. No. 988,847; Apr. 4; Sp. p. 1180; Gaz. vol. 165; p. 188.
Artista Piano Player Company. (See Bennett, Robert J., assignor.)
Artista Piano Player Company. (See Turney, Eugene T., assignor.)
Artusse, Emil. (See Parent and Artusse.)
Artusse, Lucien. (See Parent and Artusse.)
Arvan, Harry. (See Vaichis and Arvan.)
Arwine, Eugene D., San Jose, Cal. Thumb-knife. No. 1,000,226; Aug. 8; Sp. p. 2148; Gaz. vol. 169; p. 382.
Asbell, Henry, Huntsville, Mo. Stalk-puller. No. 1,004,523; Sept. 26; Sp. p. 5115; Gaz. vol. 170; p. 901.
Asbestos Brake Company, The. (See Headson, Frank A., assignor.)
Asbestos Brake Company, The. (See Hoff, Louis R., assignor.)
Asbestos Protected Metal Company. (See Newsome, Edgar T., assignor.)
Asboth, Géza, and L. Horwáth, Donora, Pa. Rail-joint. No. 986,342; Mar. 7; Sp. p. 1218; Gaz. vol. 164; p. 197.
Asbury, Dorsey F., Washington, D. C. Chain rammer. No. 980,181; Jan. 3; Sp. p. 5; Gaz. vol. 162; p. 4.
Asch, Dagobert. (See Asch, Wladislaw and D.)
Asch, Wladislaw and D., Berlin, Germany. Electric dental heater. No. 1,009,008; Nov. 14; Sp. p. 3080; Gaz. vol. 172; p. 512.
Aschan, Ossian, Helsingfors, Russia, and W. Kempe, assignors to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Preparing camphor. No. 994,437; June 6; Sp. p. 696; Gaz. vol. 167; p. 119.
Aschauer, Charles J., and W. H. Lienesch, Decatur, Ill. Pole. No. 1,001,603; Aug. 29; Sp. p. 5131; Gaz. vol. 169; p. 952.
Aschemeier, Luther W., Baltimore, Md. Portable ink-bottle. No. 985,493; Feb. 28; Sp. p. 4866; Gaz. vol. 163; p. 864.
Aschemeier, Luther W., Baltimore, Md. Bottle closure and supporting device. No. 997,945; July 18; Sp. p. 2908; Gaz. vol. 168; p. 534.
Aschliman, John S., near Bluffton, Ind. Horse-collar. No. 1,001,726; Aug. 29; Sp. p. 5391; Gaz. vol. 169; p. 994.
Ashburn, Jesse A., Winston Salem, N. C. Flavoring compound for tobacco. No. 981,605; Jan. 17; Sp. p. 3218; Gaz. vol. 162; p. 546.
Ashcroft, Edgar A., Sogn, Norway. Treatment of complex ores. No. 1,011,897; Dec. 19; Sp. p. 3372; Gaz. vol. 173; p. 592.
Ashcroft, Edgar A., Sogn, Norway. Metallurgy of zinc-bearing lead sulfids with or without small admixtures of other metals. No. 1,011,898; Dec. 19; Sp. p. 3378; Gaz. vol. 173; p. 592.
Ashcroft, Edgar A., Sogn, Norway. Metallurgy of metal sulfids. No. 1,011,899; Dec. 19; Sp. p. 3381; Gaz. vol. 173; p. 593.
Ashcroft, Edgar A., Sogn, Norway. Metallurgy of metal sulfids. No. 1,011,900; Dec. 19; Sp. p. 3385; Gaz. vol. 173; p. 593.
Ashcroft Manufacturing Company, The. (See Blanchard and Crocker, assignors.)
Ashcroft, William T., Waterbury, Conn. Wire-straightener. No. 1,012,964; Dec. 26; Sp. p. 5727; Gaz. vol. 173; p. 1005.
Ashdown, Sydney, Vancouver, British Columbia, Canada. Hauling-tackle. No. 982,113; Jan. 17; Sp. p. 4319; Gaz. vol. 162; p. 721.
Ashdown, Sydney, Vancouver, British Columbia, Canada. Automatically-releasing hook. No. 992,746; May 23; Sp. p. 4102; Gaz. vol. 166; p. 759.
Ashe, Harry M. (See Fricks, William D., assignor.)
Ashe, Harry M., and W. D. Fricks, Atlanta, Ga., assignors, by mesne assignments, to Underwood Typewriter Co., New York, N. Y. Type-writing machine. No. 989,889; Apr. 18; Sp. p. 3414; Gaz. vol. 165; p. 596.
Asher, Clyde B., Washington, D. C. Concrete floor construction. No. 1,006,423; Oct. 17; Sp. p. 4084; Gaz. vol. 171; p. 712.
Asher, Clyde B., Washington, D. C. Concrete floor construction. No. 1,006,424; Oct. 17; Sp. p. 4087; Gaz. vol. 171; p. 713.
Ashland Manufacturing Company, The. (See Willour, Le Roy, assignor.)

Alphabetical list of patentees—Continued.

Ashley, Arthur, Melbourne, Victoria, Australia. Reinforced resilient heel for boots and shoes. No. 999,358; Aug. 1; Sp. p. 331; Gaz. vol. 169; p. 58.
Ashley, Charles G., Chicago, Ill. Relay. No. 990,183; Apr. 18; Sp. p. 4036; Gaz. vol. 165; p. 695.
Ashley, Charles G., Chicago, Ill. Telephonic relay system. No. 991,928; May 9; Sp. p. 2345; Gaz. vol. 166; p. 417.
Ashley, Charles G., Chicago, Ill. Propagating telephonic currents. No. 994,361; June 6; Sp. p. 536; Gaz. vol. 167; p. 92.
Ashley, Edward, Boise, Idaho. Flume head-gate. No. 983,341, Feb. 7; Sp. p. 177; Gaz. vol. 163; p. 31.
Ashley, Edward, Boise, Idaho. Head-gate. No. 1,004,133; Sept. 26; Sp. p. 4323; Gaz. vol. 170; p. 769.
Ashley, Frank M., New York, N. Y. Fountain-pen. No. 980,899; Jan. 10; Sp. p. 1585; Gaz. vol. 162; p. 277.
Ashley, Frank M., New York, N. Y. Fountain-pen. No. 982,922; Jan. 31; Sp. p. 6031; Gaz. vol. 162; p. 1056.
Ashley, Frank M., New York, N. Y. Inkstand. No. 985,319; Feb. 28; Sp. p. 4467; Gaz. vol. 163; p. 804.
Ashley, Frank M., New York, N. Y. Inkstand. No. 986,536; Mar. 14; Sp. p. 1653; Gaz. vol. 164; p. 294.
Ashley, Frank M., New York, N. Y. Inkstand. No. 993,813; May 30; Sp. p. 6422; Gaz. vol. 166; p. 1157.
Ashley, Frank M., New York, assignor of one-half to W. H. Lawson, Poughkeepsie, N. Y. Fountain-pen. No. 1,000,319; Aug. 8; Sp. p. 2334; Gaz. vol. 169; p. 412.
Ashley, Roy E., Muskegon, Mich. Furnace. No. 985,878; Mar. 7; Sp. p. 250; Gaz. vol. 164; p. 41.
Ashlimann, Adolf E., assignor of one-fourth to H. Alexander, Haskell, Tex. Cotton-chopper. No. 1,005,792; Oct. 17; Sp. p. 2669; Gaz. vol. 171; p. 490.
Ashlock, Henry H., Kansas City, Mo. Door and window guard. No. 1,000,977; Aug. 22; Sp. p. 3808; Gaz. vol. 169; p. 710.
Ashman, David B., Baltimore, Md. Attachment for sewing-machines. No. 991,816; May 9; Sp. p. 2128; Gaz. vol. 166; p. 378.
Ashmore, James M., Cincinnati, Ohio. Combined window-shade and curtain-bracket. No. 999,733; Aug. 8; Sp. p. 1076; Gaz. vol. 169; p. 214.
Ashmusen, Henry W., Kings Park, N. Y. Carbureter. No. 985,122; Feb. 28; Sp. p. 3991; Gaz. vol. 163; p. 736.
Ashton, Edward H. H., Newark, N. J. Folding chair. No. 993,634; May 30; Sp. p. 6018; Gaz. vol. 166; p. 1094.
Ashton, Edwin P., Detroit, Mich. Locking device for motor-vehicle-control levers. No. 986,537; Mar. 14; Sp. p. 1655; Gaz. vol. 164; p. 294.
Ashton, Frank R., assignor to Ricker Manufacturing Company, Rochester, N. Y. Carrier. No. 994,362; June 6; Sp. p. 543; Gaz. vol. 167; p. 93.
Ashton, John T., Lowellville, Ohio. Rail joint and fastener. No. 986,891; Mar. 14; Sp. p. 2422; Gaz. vol. 164; p. 418.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Last-support. No. 1,000,660; Aug. 15; Sp. p. 3127; Gaz. vol. 169; p. 566.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,007,766; Nov. 7; Sp. p. 253; Gaz. vol. 172; p. 41.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-beating machine. No. 1,008,298; Nov. 14; Sp. p. 1431; Gaz. vol. 172; p. 267.
Ashton, Orrell, Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Jack. No. 1,012,581; Dec. 26; Sp. p. 4845; Gaz. vol. 173; p. 873.
Ashton, Orrell, Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-beater. No. 1,009,713; Nov. 28; Sp. p. 4619; Gaz. vol. 172; p. 839.
Ashworth, Arthur, Bury, England. Manufacture of reducing agents. No. 997,534; July 11; Sp. p. 1940; Gaz. vol. 168; p. 348.
Ashworth, Asa, Jamestown, N. Y. Wool-combing machine. No. 1,010,840; Dec. 5; Sp. p. 982; Gaz. vol. 173; p. 153.
Ashworth, Fred, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Press. No. 1,006,453; Oct. 24; Sp. p. 4160; Gaz. vol. 171; p. 752.
Ashworth, Luke, Portsmouth, N. H., assignor of one-half to R. L. Tappenden, Cleveland, Ohio. Mooring-staple. No. 1,010,108; Nov. 28; Sp. p. 5430; Gaz. vol. 172; p. 973.
Aslakson, Baxter M., Salem, Ohio. Balanced valve. No. 985,879; Mar. 7; Sp. p. 253; Gaz. vol. 164; p. 41.
Aslakson, Baxter M., Salem, Ohio. Gas-engine. No. 992,141; May 16; Sp. p. 2772; Gaz. vol. 166; p. 519.
Aslakson, Baxter M., Salem, Ohio. Gas-producer. No. 996,603; July 4; Sp. p. 4; Gaz. vol. 168; p. 3.
Aslakson, Baxter M., Salem, Ohio. Gas-engine. No. 999,426; Aug. 1; Sp. p. 459; Gaz. vol. 169; p. 81.
Aslakson, Baxter M., Salem, Ohio. Engine-governor. No. 1,007,661; Nov. 7; Sp. p. 3; Gaz. vol. 172; p. 3.
Aslakson, Baxter M., Salem, Ohio. Means for driving air and gas pumps. No. 1,007,662; Nov. 7; Sp. p. 6; Gaz. vol. 172; p. 4.
Aslakson, Baxter M., Salem, Ohio. Starting-valve for gas-engines. No. 1,009,626; Nov. 21; Sp. p. 4431; Gaz. vol. 172; p. 763.
Aspegrén, William H., Quincy, Mass. Finger-tip protector. No. 995,108; June 13; Sp. p. 2215; Gaz. vol. 167; p. 385.
Aspinwall, John, *et al.* (See Schwertner, Joseph, assignor.)
Aspinwall, Lewis A., Jackson, Mich. Comb foundation and section honey-box therefor. No. 994,559; June 6; Sp. p. 951; Gaz. vol. 167; p. 157.
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Co., Jackson, Mich. Pump for liquid-sprayers. No. 994,558; June 6; Sp. p. 950; Gaz. vol. 167; p. 157.
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. Beehive. No. 1,004,335; Sept. 26; Sp. p. 4727; Gaz. vol. 170; p. 836.
Aspinwall, Lewis A., assignor to Aspinwall Manufacturing Company, Jackson, Mich. Agricultural implement. No. 1,012,118; Dec. 19; Sp. p. 3884; Gaz. vol. 173; p. 672.
Aspinwall Manufacturing Company. (See Aspinwall, Lewis A., assignor.)
Aspinwall, Robert S., assignor to The Virden Manufacturing Company, Cleveland, Ohio. Suspension-loop for electric fixtures. No. 1,012,582; Dec. 26; Sp. p. 4848; Gaz. vol. 173; p. 873.
Aspy, Lotus, Terre Haute, Ind. Door-hinge. No. 1,007,838; Nov. 7; Sp. p. 455; Gaz. vol. 172; p. 67.
Asselin, Olivier, Ottawa, Ontario, Canada. Car-ticket. No. 997,729; July 11; Sp. p. 2372; Gaz. vol. 168; p. 416.
Associated Oil Company. (See Roe, Alpheus E., assignor.)
Astley, Robert A. (See Sparks, Allen, and Astley.)
Astroff, Hyman, *et al.* (See Pascal, Israel, assignor.)
Astrom, Carl P., Hasbrouck Heights, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Ladle. No. 984,877; Feb. 21; Sp. p. 3502; Gaz. vol. 163; p. 619.
Astrom, Carl P., Hasbrouck Heights, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Built-up ladle. No. 1,006,519; Oct. 24; Sp. p. 4323; Gaz. vol. 171; p. 776.
Astrom, John, Fort Wayne, Ind. Valve mechanism for air-compressors. No. 986,122; Mar. 7; Sp. p. 769; Gaz. vol. 164; p. 124.
Astrom, John, Fort Wayne, Ind. Pump. No. 991,469; May 9; Sp. p. 1375; Gaz. vol. 166; p. 260.
Atchison, Herbert E., Denver, Colo., assignor to The American Post and Pole Company. Post or telegraph and telephone pole. (Reissue.) No. 13,202; Feb. 14; Sp. p. 2745; Gaz. vol. 163; p. 459.
Atchison, James R., San Francisco, and C. R. Weymouth, Berkeley, Cal., assignors to Chas. C. Moore & Co., Engineers, Inc. System of regulation for oil-burning plants. (Reissue.) No. 13,337; Dec. 12; Sp. p. 3355; Gaz. vol. 173; p. 557.
Aten, Merritt L., assignor of one-half to W. L. Mygrants, Jackson, Mich. Fish-rod. No. 997,730; July 11; Sp. p. 2373; Gaz. vol. 168; p. 417.
Athanassiades, Estrate. (See Coconis, Constantine, assignor.)
Atherton, Giles, Stockport, England. Machine for blocking and shaping hats. No. 993,635; May 30; Sp. p. 6020; Gaz. vol. 166; p. 1094.
Athey, Isaac H., assignor to Athey Sanitary Equipment Co., Chicago, Ill. Weatherproofing. No. 1,004,336; Sept. 26; Sp. p. 4730; Gaz. vol. 170; p. 836.
Athey Sanitary Equipment Co. (See Athey, Isaac H., assignor.)
Atkins, Albert S. (See Borger and Atkins.)
Atkins, Charles H., Springfield, Mass. Safety-razor. No. 985,494; Feb. 28; Sp. p. 4868; Gaz. vol. 163; p. 864.
Atkins, Earl F. (See Atkins, Frank K. and E. F.)
Atkins, Frank K. and E. F., Denver, Colo.; said E. F. Atkins assignor to said Frank K. Atkins. Centrifugal filter-press. No. 980,859; Jan. 3; Sp. p. 1450; Gaz. vol. 162; p. 233.
Atkins, James W. (See Humason and Odell, assignors.)
Atkins, John, Sheffield, England. Rolls for the manufacture of shovels, spades, and similar articles. No. 984,790; Feb. 21; Sp. p. 3346; Gaz. vol. 163; p. 590.
Atkins, John, Sheffield, England. Rolls for the manufacture of shovels, spades, &c. No. 985,099; Feb. 21; Sp. p. 3928; Gaz. vol. 163; p. 694.
Atkinson, Charles D., *et al.* (See Brooks, John H., assignor.)
Atkinson, Christopher C., Hawkinsville, Ga. Tide or wave operated motor. No. 987,685; Mar. 28; Sp. p. 4068; Gaz. vol. 164; p. 747.
Atkinson, Claude W., Great Missenden, England. Piano-playing mechanism. No. 1,000,359; Aug. 15; Sp. p. 2431; Gaz. vol. 169; p. 457.
Atkinson, Claude W., Great Missenden, England. Piano-playing mechanism. No. 1,005,793; Oct. 17; Sp. p. 2672; Gaz. vol. 171; p. 490.
Atkinson, Claude W., Great Missenden, England. Piano-playing mechanism and the like. No. 1,010,567; Dec. 5; Sp. p. 369; Gaz. vol. 173; p. 58.
Atkinson, Edie W., Norfolk, Va. Railway-tie. No. 985,123; Feb. 28; Sp. p. 3993; Gaz. vol. 163; p. 736.
Atkinson, George K., assignor to The John Steptoe Shaper Company, Cincinnati, Ohio. Feed mechanism for shapers. No. 986,123; Mar. 7; Sp. p. 771; Gaz. vol. 164; p. 125.

Alphabetical list of patentees—Continued.

Atkinson, James, Pittsburg, Pa. Paper-hanging machine. No. 992,533; May 16; Sp. p. 3661; Gaz. vol. 166; p. 657.
Atkinson, James A. (See Robertson and Atkinson.)
Atkinson, Joel B., Madison, Ga. Saw-vise. No. 981,153; Jan. 10; Sp. p. 2230; Gaz. vol. 162; p. 363.
Atkinson, John M., and L. A. Scovil, Chicago, Ill., assignors, by mesne assignments, to General Electric Company. Rail-bond. No. 990,620; Apr. 25; Sp. p. 5054; Gaz. vol. 165; p. 881.
Atkinson, Lynn S. (See Marks, Don O., assignor.)
Atkinson, Wiley W., assignor of one-half to L. W. Dickinson, Columbia, S. C. Kitchen-safe and drawer. No. 992,103; May 9; Sp. p. 2667; Gaz. vol. 166; p. 475.
Atlanta Tin Plate & Sheet Mill. (See Fox, Edward, assignor.)
Atlantic, Gulf and Pacific Company. (See Field, George E., assignor.)
Atlantic National Bank. (See Stebbins and Adams, assignors.)
Atlantic Terra Cotta Company, The. (See Frerichs, William D., assignor.)
Atlas Engine Works. (See McCarty, Norman, assignor.)
Atlas Metal Works. (See Wyatt, William J., assignor.)
Atlas Portland Cement Company, The. (See Bruhn, Bruno, assignor.)
Atlas Portland Cement Company, The. (See Forell, Carl von, assignor.)
Atlas Tack Company. (See Raiche, Andrew, assignor.)
Atlee, Joshua W., Riverton, N. J. Receptacle and support therefor. No. 997,361; July 11; Sp. p. 1611; Gaz. vol. 168; p. 292.
Atmore, Robert R., New York, assignor to W. H. Rich & Son, Brooklyn, N. Y. Cloth-piler. No. 993,943; May 30; Sp. p. 6668; Gaz. vol. 166; p. 1200.
Aton, Jefferson D., assignor of one-half to W. M. Aton, Henderson, Ky. Spindle for wheeled vehicles. No. 983,855; Feb. 7; Sp. p. 1283; Gaz. vol. 163; p. 205.
Aton, William M. (See Aton, Jefferson D., assignor.)
Atterbury, Grosvenor, New York, N. Y. Lifting device for cores. No. 1,007,663; Nov. 7; Sp. p. 7; Gaz. vol. 172; p. 4.
Attleboro Chain Company. (See Killion, John F., assignor.)
Atwater, Harry R., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Machine for jarring molds. No. 1,008,299; Nov. 14; Sp. p. 1433; Gaz. vol. 172; p. 267.
Atwater, John L., Western Springs, Ill. Laundry apparatus. No. 993,012; May 23; Sp. p. 4685; Gaz. vol. 166; p. 854.
Atwater, Silas I., New York, N. Y. Tablet. No. 1,006,711; Oct. 24; Sp. p. 4730; Gaz. vol. 171; p. 843.
Atwell, Edwin, Baltimore, Md. Internal-combustion gas-turbine engine. No. 1,000,882; Aug. 15; Sp. p. 3585; Gaz. vol. 169; p. 644.
Atwood, Alfred L., San Francisco, Cal. Cable-hanger. No. 1,010,342; Nov. 28; Sp. p. 5902; Gaz. vol. 172; p. 1051.
Atwood, George F., East Orange, N. J., assignor to Western Electric Company, Chicago, Ill. Signaling apparatus. No. 1,000,572; Aug. 15; Sp. p. 2919; Gaz. vol. 169; p. 535.
Atwood, George F., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Motor-driven whistle. No. 1,004,337; Sept. 26; Sp. p. 4732; Gaz. vol. 170; p. 837.
Atwood, Harry N., Lynn, Mass., assignor to General Electric Company. Electric meter. No. 981,235; Jan. 10; Sp. p. 2451; Gaz. vol. 162; p. 397.
Atwood, Harry N., Lynn, Mass., assignor to General Electric Company. Electric meter. No. 981,236; Jan. 10; Sp. p. 2452; Gaz. vol. 162; p. 398.
Atwood, James F., Claremont, N. H. Elastic connecting device. No. 1,012,502; Dec. 19; Sp. p. 4668; Gaz. vol. 173; p. 801.
Atwood, Leonard, Farmington Falls, Me., assignor to Otis Elevator Company, Jersey City, N. J. Antifriction device for lower ends of plungers. No. 987,666; Mar. 21; Sp. p. 4001; Gaz. vol. 164; p. 712.
Atwood, Leonard, Farmington Falls, Me., assignor to Otis Elevator Company, Jersey City, N. J. Stop device for plunger-elevators. No. 1,005,132; Oct. 10; Sp. p. 1191; Gaz. vol. 171; p. 224.
Atwood, William H., Oakland, Cal. Hemp-breaking machine. No. 986,538; Mar. 14; Sp. p. 1656; Gaz. vol. 164; p. 294.
Atwood, William S. (See Murray and Atwood.)
Atwood, William S., Montreal, Quebec, Canada. End stiffener for railway-cars. No. 987,279; Mar. 21; Sp. p. 3219; Gaz. vol. 164; p. 581.
Aub, Hermann, Munich, Germany. Head-electrifying device. No. 999,945; Aug. 8; Sp. p. 1507; Gaz. vol. 169; p. 285.
Auburn Wagon Company. (See Snoddy, James T., assignor.)
Aubury, Lewis E. (See Eliel, Oscar H. and A. L., assignors.)
Auchu, Alvah G., Chicago, Ill., assignor to The Carter's Ink Company, Cambridge, Mass. Paste-jar. No. 1,000,484; Aug. 15; Sp. p. 2710; Gaz. vol. 169; p. 503.
Auchy, Henry B., Philadelphia, Pa. Carousel bearing mechanism. No. 988,536; Apr. 4; Sp. p. 527; Gaz. vol. 165; p. 84.
Aude, Gertrude N. (See Ricker, James H., assignor.)
Audley, Francis H., assignor to Audley Safety Holster Co., New York, N. Y. Automatic-gun holster. No. 996,694; July 4; Sp. p. 197; Gaz. vol. 168; p. 34.
Audley Safety Holster Co. (See Audley, Francis H., assignor.)
Aue, Rudolph, San Antonio, Tex. Tire-protector. No. 1,006,712; Oct. 24; Sp. p. 4731; Gaz. vol. 171; p. 843.
Auerbach, Joseph S. (See Auerbach, Leopold and J. S.)
Auerbach, Leopold and J. S., New York, N. Y. Preserving and shipping receptacle. No. 983,866; Feb. 14; Sp. p. 1333; Gaz. vol. 163; p. 239.
Auerbach, Marcus, Montreal, Quebec, Canada. Indicating-lock. No. 1,002,356; Sept. 5; Sp. p. 410; Gaz. vol. 170; p. 58.
Auerbach, Marcus, assignor of one-half to B. Aronson, Montreal, Quebec, Canada. Ear-ring. No. 983,598; Feb. 7; Sp. p. 748; Gaz. vol. 163; p. 117.
Aufderheide, Benjamin F., Davenport, Iowa. Storm and screen window. No. 998,944; July 25; Sp. p. 5154; Gaz. vol. 168; p. 920.
Aufhauser, Martin, *et al.* (See Kiesel, Oskar, assignor.)
Aufiero, Emanuel, assignor to Automobile Supply Mfg. Co., Brooklyn, N. Y. Electromechanical alarm. No. 988,537; Apr. 4; Sp. p. 528; Gaz. vol. 165; p. 84.
Aufiero, Emanuel, assignor to Automobile Supply Mfg. Co., Brooklyn, N. Y. Drum-actuated alarm. No. 990,796; Apr. 25; Sp. p. 5459; Gaz. vol. 165; p. 940.
Aug. Goertz & Co. (See Eigen, Benno vom, assignor.)
Augir, Newell G., Brooklyn, N. Y. Street-signal for cars. No. 994,363; June 6; Sp. p. 544; Gaz. vol. 167; p. 93.
Augur, Elmer D., Chicago, Ill. Window-lock. No. 1,011,556; Dec. 12; Sp. p. 2606; Gaz. vol. 173; p. 441.
Augustine, Benjamin F., Buffalo, N. Y. Rotary engine. No. 984,061; Feb. 14; Sp. p. 1765; Gaz. vol. 163; p. 304.
Augustine, Benjamin F., Buffalo, N. Y. Rotary engine. No. 1,006,896; Oct. 24; Sp. p. 5173; Gaz. vol. 171; p. 909.
Augustine, Benjamin F., Buffalo, N. Y. Rotary engine. No. 1,009,213; Nov. 21; Sp. p. 3540; Gaz. vol. 172; p. 620.
Augustine, Benjamin F., Buffalo, N. Y. Flexible shaft-coupling. No. 1,010,717; Dec. 5; Sp. p. 709; Gaz. vol. 173; p. 112.
Augustus, John B., Los Angeles, Cal. Uncoupling-lever. No. 990,828; May 2; Sp. p. 1; Gaz. vol. 166; p. 3.
Aulin, Axel C. (See Smith and Aulin.)
Aulinwun Novelties Company. (See Ackerman, Albert H., assignor.)
Aulson, John W., Lynn, Mass. Hide-working machine. No. 1,011,306; Dec. 12; Sp. p. 2048; Gaz. vol. 173; p. 352.
Ault, Edward L., Iola, Kans. Aeroplane. No. 992,470; May 16; Sp. p. 3531; Gaz. vol. 166; p. 634.
Ault, Jesse F. A., Cambridge, Ohio. Railway-rail fastening. No. 1,005,922; Oct. 17; Sp. p. 2974; Gaz. vol. 171; p. 537.
Ault, Jesse F. A., Cambridge, Ohio. Reinforced-concrete railway-tie. No. 1,010,399; Nov. 28; Sp. p. 6026; Gaz. vol. 172; p. 1068.
Aultman & Taylor Machinery Company, The. (See Whiting, Koppes, and Gorham, assignors.)
Aultman, Thomas G., Fairmont, W. Va. Self-lubricating wheel. No. 1,000,883; Aug. 15; Sp. p. 3589; Gaz. vol. 169; p. 645.
Aurand, Balera J., Laporte, Ind. Hinge. No. 991,262; May 2; Sp. p. 931; Gaz. vol. 166; p. 157.
Aurness, Peter A., Minneapolis, Minn. Grain-door. No. 996,961; July 4; Sp. p. 759; Gaz. vol. 168; p. 124.
Aurnhammer, Henry. (See Grabau, Charles F., assignor.)
Aurora Automatic Machinery Company. (See Levedahl, Axel, assignor.)
Aurora Automatic Machinery Company. (See Norling, Reinhold A., assignor.)
Aurora Automatic Machinery Company. (See Ottaway, William, assignor.)
Auster, Arthur C., Birmingham, England. Weather-screen for vehicles. No. 998,320; July 18; Sp. p. 3767; Gaz. vol. 168; p. 670.
Austerlitz, Alexander, Györ, Austria-Hungary. Pressing oil-seeds in open presses. No. 992,534; May 16; Sp. p. 3666; Gaz. vol. 166; p. 657.
Austerweil, Géza, Neuilly, near Paris, France. Making borneol and borneol esters from pinene. No. 986,038; Mar. 7; Sp. p. 606; Gaz. vol. 164; p. 98.
Austin, A. T. (See Anderson, Charles O., assignor.)
Austin, Albert L., Lakewood, Ohio. Steam-generator. No. 1,008,515; Nov. 14; Sp. p. 2008; Gaz. vol. 172; p. 343.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Insulator Company, Mansfield, Ohio. Strain-clamp. No. 1,002,113; Aug. 29; Sp. p. 6209; Gaz. vol. 169; p. 1122.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Insulator Company, Mansfield, Ohio. Sectional insulator. No. 1,010,011; Nov. 28; Sp. p. 5240; Gaz. vol. 172; p. 938.
Austin, Charles H. (See Leisinger, Jacob, assignor.)

Alphabetical list of patentees—Continued.

Austin, Claude L., Narrows, Oreg. Belt-shipping device. No. 1,006,343; Oct. 17; Sp. p. 3912; Gaz. vol. 171; p. 684.
Austin, De Roy, Omaha, Nebr. Insole for shoes. No. 981,154; Jan. 10; Sp. p. 2231; Gaz. vol. 162; p. 363.
Austin, Edward J. (See Martineau and Austin.)
Austin, Frederick C. (See Bathrick, Charles E., assignor.)
Austin, Frederick C. (See Bruns, John M., assignor.)
Austin, Frederick C. (See Bunnell, Morton G., assignor.)
Austin, Guy. (See Henley and Whiteside, assignors.)
Austin, Henry K., Reading, Mass. Attachment for tire-inflating pumps. No. 1,005,123; Oct. 10; Sp. p. 1177; Gaz. vol. 171; p. 221.
Austin, Herbert, Bromsgrove, England. Lifting-jack. No. 1,000,140; Aug. 8; Sp. p. 1960; Gaz. vol. 169; p. 352.
Austin, Joseph E., assignor of three-fourths to L. M. Lee, Richmond, Va. Gage-cock. No. 1,006,520; Oct. 24; Sp. p. 4325; Gaz. vol. 171; p. 776.
Austin, Josiah B., San Diego, Cal. Pipe-union. No. 982,028; Jan. 17; Sp. p. 4151; Gaz. vol. 162; p. 692.
Austin, Mandley J., assignor of one-half to G. E. Boorman, Buffalo, N. Y. Lock-valve. No. 985,100; Feb. 21; Sp. p. 3929; Gaz. vol. 163; p. 694.
Austin Manufacturing Company. (See Mustin, Herbert S., assignor.)
Austin, Nelson A., Spring Arbor, Mich. Molded shingle. No. 1,004,338; Sept. 26; Sp. p. 4733; Gaz. vol. 170; p. 837.
Austin, Richard, assignor to Macdonald Manufacturing Company, Limited, Toronto, Ontario, Canada. Cover-fastener for metal pails. No. 1,004,841; Oct. 3; Sp. p. 641; Gaz. vol. 171; p. 104.
Austin, Robert H., San Francisco, Cal. Wire-splicing machine. No. 1,008,234; Nov. 7; Sp. p. 1271; Gaz. vol. 172; p. 207.
Austin, Stephen J., Terre Haute, Ind., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Pitless scale. No. 992,747; May 23; Sp. p. 4103; Gaz. vol. 166; p. 759.
Austin, Walter M. (See Mahoney and Austin.)
Austin, William, Scranton, Pa. Pipe-coupling. No. 991,595; May 9; Sp. p. 1657; Gaz. vol. 166; p. 305.
Austin, William A., Wayne, assignor to Baldwin Locomotive Works, Philadelphia, Pa. Locomotive. No. 998,321; July 18; Sp. p. 3771; Gaz. vol. 168; p. 670.
Austin, William B., Wilmington, Del. Dirigible headlight. No. 992,142; May 16; Sp. p. 2777; Gaz. vol. 166; p. 519.
Austin, William K., New York, assignor to Equilibrium Valve Engine Company, Brooklyn, N. Y. Steam-engine. No. 992,143; May 16; Sp. p. 2778; Gaz. vol. 166; p. 520.
Austin, William L. (See Slaughter, Elmer E., assignor.)
Austwick, Henry L., Chicago, Ill. Gas-heater and chafing-dish holder. No. 1,002,957; Sept. 12; Sp. p. 1739; Gaz. vol. 170; p. 301.
Autenrieth, Charles F., and R. Chandler, Brooklyn, N. Y. Theatrical appliance. No. 1,008,516; Nov. 14; Sp. p. 2010; Gaz. vol. 172; p. 344.
Auth, Charles, New York, N. Y. Push-button. No. 985,101; Feb. 21; Sp. p. 3931; Gaz. vol. 163; p. 694.
Auth, Charles, New York, N. Y. Break-glass fire-alarm. No. 992,633; May 16; Sp. p. 3878; Gaz. vol. 166; p. 691.
Auto-Hydraulic Limited. (See Hodder, Albert E., assignor.)
Auto Paper Feeder Company, The. (See Hanau, Rudolph, assignor.)
Auto-Play Games Company. (See Rapp, John V. B., assignor.)
Auto Pneumatic Action Co. (See Danquard, Thomas, assignor.)
Auto Pneumatic Action Co. (See Southgate, Louis W., assignor.)
Auto-Process Shops, The. (See Avram, Moïs H., assignor.)
Auto Safety Specialty Company. (See Carrigan, Henry J., assignor.)
Auto Specialties Manufacturing Company. (See Bair, Clarence L., assignor.)
Auto-Spring Wheel Company, The. (See Swing, Alfred J., assignor.)
Auto-Steam Vulcanizer Company, The. (See Hitch, John E., assignor.)
Auto Strop Company. (See Gaisman, Henry J., assignor.)
Autocar Company, The. (See Clarke, Louis S., assignor.)
Autocoil Company, The. (See Varley, Richard, assignor.)
Autographic Register Company. (See Shoup, Samuel R., assignor.)
Automatic Arms Company, The. (See Lewis, Isaac N., assignor.)
Automatic Arms Company, The. (See McClean, Samuel N., assignor.)
Automatic Billing Company. (See Gallagher, Richard W., assignor.)
Automatic Electric Company. (See Erickson, John, assignor.)
Automatic Electric Company. (See Hector, William, assignor.)
Automatic Envelope Sealing and Stamping Machine Company. (See Davis, Charles F., assignor.)
Automatic Fire Protection Company. (See Nolen and Shepherd, assignors.)
Automatic Flareback Prevention Company. (See Smith, William D., assignor.)
Automatic Gas Pump Company. (See McGonigle, Charles W., assignor.)
Automatic Hand-Truck Company. (See West, Edward M., assignor.)
Automatic Laundry Appliance Company. (See Wilson, George, assignor.)
Automatic Movable Headlight Company. (See McElliott, Joseph P., assignor.)
Automatic Pencil Sharpener Company. (See Spengler, Charles C., assignor.)
Automatic Picture Machine Company of Delaware. (See Doyle, Henry, assignor.)
Automatic Platen Press Company. (See Beyer, Otto S., assignor.)
Automatic Platen Press Company. (See Morrison, Lewis E., assignor.)
Automatic Press Feeder Company. (See Kirkman, Karl F., assignor.)
Automatic Printing Press Company. (See Custer, Dwight W., assignor.)
Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)
Automatic Refrigerating Company, The. (See Carpenter and Kimball, assignors.)
Automatic Refrigerating Company, The. (See Culver, Andrew C., assignor.)
Automatic Refrigerating Company, The. (See Marshall, Albert T., assignor.)
Automatic Sounding Machine Company, The. (See Rattray, Gordon, assignor.)
Automatic Specialty Company, The. (See Barlow, Jake, assignor.)
Automatic Sprinkler Company of America. (See Hamilton, John R., assignor.)
Automatic Typewriter Company, The. (See McCall, Thomas A., assignor.)
Automatic Utilities Company. (See Heissenberger, John, assignor.)
Automatic Vending Machines Company, The. (See Craig and Coffman, assignors.)
Automatic Water Heater Company. (See Freeman, Joseph H., assignor.)
Automatic Weighing Machine Company. (See Nickerson, William E., assignor.)
Automatic Welding Machine Company. (See Graves, Charles L., assignor.)
Automobile Supply Mfg. Co. (See Aufiero, Emanuel, assignor.)
Autopiano Co. (See O'Connor, James, assignor.) (Reissue.)
Autoplate Company of America, The. (See Johnston, Robert T., assignor.)
Autoplate Company of America, The. (See Robertson, Charles J., assignor.)
Autoplate Company of America, The. (See Wood, Henry A. W., assignor.)
Autopress Company, The. (See Freeman, Rufus A., assignor.)
Autopress Company, The. (See Vierengel, Matthew, assignor.)
Averbeck, Henry J., Covington, Ky. Rocker-arm for shapers. No. 1,009,460; Nov. 21; Sp. p. 4114; Gaz. vol. 172; p. 710.
Averdung, Hugo, Hückeswagen, Germany. Tilt-hammer. No. 996,194; June 27; Sp. p. 4611; Gaz. vol. 167; p. 822.
Avery, Charles E., Jersey City, N. J., assignor to Manhattan Electrical Supply Company, New York, N. Y. Terminal clip for electric batteries. No. 1,011,710; Dec. 12; Sp. p. 2955; Gaz. vol. 173; p. 494.
Avery, Charles H., Newtonville, Mass. Calculating apparatus. No. 1,004,339; Sept. 26; Sp. p. 4735; Gaz. vol. 170; p. 837.
Avery, Clarence W., and F. E. Searle, Detroit, Mich. Starting-heater for carbureters. No. 998,945; July 25; Sp. p. 5156; Gaz. vol. 168; p. 920.
Avery Company. (See Springer, William N., assignor.)
Avery, Henry C., assignor to Mt. Holyoke Tissue Mills, Holyoke, Mass. Towel-cabinet. No. 1,002,958; Sept. 12; Sp. p. 1740; Gaz. vol. 170; p. 302.
Avery, Morris H., Dover, N. H. Pulley and bearing therefor. No. 1,003,864; Sept. 19; Sp. p. 3638; Gaz. vol. 170; p. 646.
Avery, Nathan P. (See Reed, George G., assignor.)
Avery, Percy C., Milwaukee, Wis. Reflector for automobile-lamps. No. 986,668; Mar. 14; Sp. p. 1940; Gaz. vol. 164; p. 342.
Avery, Roger L., Chicago, Ill. Gas-controller. No. 1,000,485; Aug. 15; Sp. p. 2711; Gaz. vol. 169; p. 503.
Avery Scale Company, The. (See Welsh, Henry W., assignor.)
Avery, Walter W., Dothan, Ala. Pliers. No. 1,004,524; Sept. 26; Sp. p. 5117; Gaz. vol. 170; p. 901.
Avey, Charles H., Oakland, Cal. Feed-bag. No. 993,286; May 23; Sp. p. 5244; Gaz. vol. 166; p. 941.
Avil, Frank S., Collingdale, Pa. Wind-shield. No. 988,538; Apr. 4; Sp. p. 529; Gaz. vol. 165; p. 84.
Avis, Ephraim S., New York, N. Y. Spring-clasp for stocking-supporters and the like. No. 991,470; May 9; Sp. p. 1376; Gaz. vol. 166; p. 260.

Avram, Moïs H., New York, N. Y. Machine for making tipped cigarette-tubes. No. 1,011,557; Dec. 12; Sp. p. 2607; Gaz. vol. 173; p. 441.
Avram, Moïs H., assignor to The Auto-Process Shops, New York, N. Y. Machine for making cigarette papers, tubes, and the like. No. 992,535; May 16; Sp. p. 3667; Gaz. vol. 166; p. 657.
Axelrood, Max, assignor to International Appliance Company, Portland, Oreg. Non-refillable bottle. No. 997,535; July 11; Sp. p. 1941; Gaz. vol. 168; p. 348.
Axelson, Edwin R., and C. B. Desmond, Richmond, Cal. Railway-tie. No. 986,669; Mar. 14; Sp. p. 1942; Gaz. vol. 164; p. 342.
Axelton, Madel T. and W. C., Graettinger, Iowa. Oil-can. No. 982,114; Jan. 17; Sp. p. 4321; Gaz. vol. 162; p. 721.
Axelton, William C. (See Axelton, Madel T. and W. C.)
Axman, Rudolf, assignor of one-fourth to N. R. Harris, San Francisco, Cal. Railway cross-tie. No. 988,752; Apr. 4; Sp. p. 997; Gaz. vol. 165; p. 158.
Ayau, Manuel S., New York, N. Y. Printing-telegraph. No. 1,006,344; Oct. 17; Sp. p. 3913; Gaz. vol. 171; p. 684.
Aycock, George W., assignor of one-half to B. F. Schroader, Murray, Ky. Hasp. No. 984,733; Feb. 21; Sp. p. 3225; Gaz. vol. 163; p. 570.
Aydelott, Charles F., Princeton, Ind. Oar-lock. No. 981,356; Jan. 10; Sp. p. 2711; Gaz. vol. 162; p. 440.
Aydt, Albert A., assignor of one-half to J. Spinner, Brookfield, Ill. Razor-sharpener. No. 987,787; Mar. 28; Sp. p. 4281; Gaz. vol. 164; p. 781.
Aydt, Leonard, Seattle, Wash. Artificial hand. No. 984,179; Feb. 14; Sp. p. 1999; Gaz. vol. 163; p. 343.
Ayer, Albert E., assignor to Universal Manufacturing Company, Boston, Mass. Check-protector. No. 982,782; Jan. 31; Sp. p. 5717; Gaz. vol. 162; p. 1008.
Ayer, Edward M., assignor to The H. C. Marsh Company, Rockford, Ill. Miter-box. No. 1,006,521; Oct. 24; Sp. p. 4327; Gaz. vol. 171; p. 776.
Ayer, George H., Winthrop, Mass. Antisiphonic device for boilers. No. 989,754; Apr. 18; Sp. p. 3128; Gaz. vol. 165; p. 550.
Ayer, James I., assignor to Simplex Electric Heating Company, Cambridge, Mass. Helical heater for tubes, &c. No. 995,051; June 13; Sp. p. 2113; Gaz. vol. 167; p. 366.
Ayers, Edward L., North Vancouver, British Columbia, Canada. Wave-motor. No. 997,731; July 11; Sp. p. 2374; Gaz. vol. 168; p. 417.
Ayers, James R., Petersburg, Va. Peanut-planter. No. 988,063; Mar. 28; Sp. p. 4936; Gaz. vol. 164; p. 876.
Aygarn, Christopher L., Seneca, Ill. Wagon-dump. No. 1,005,497; Oct. 10; Sp. p. 2023; Gaz. vol. 171; p. 355.
Aylett, Philip, Portsmouth, Va. System of concrete construction. No. 984,878; Feb. 21; Sp. p. 3503; Gaz. vol. 163; p. 619.
Ayling, John C., Springfield, Ill. Kite. No. 1,009,274; Nov. 21; Sp. p. 3694; Gaz. vol. 172; p. 642.
Aylsworth, George M., Collingwood, Ontario, Canada. Radiator. No. 981,519; Jan. 10; Sp. p. 3038; Gaz. vol. 162; p. 495.
Aylsworth, Jonas W., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Making duplicate sound-records. No. 1,002,482; Sept. 5; Sp. p. 683; Gaz. vol. 170; p. 99.
Aylward, Henry W. (See Marshall, Herbert E., assignor.)
Aylward, Henry W., Brooklyn, N. Y. Igniter for internal-combustion engines and analogous purposes. No. 982,343; Jan. 24; Sp. p. 4792; Gaz. vol. 162; p. 830.
Aylward, Henry W., New York, N. Y. Valve-gear for fluid-pressure engines. No. 1,005,923; Oct. 17; Sp. p. 2977; Gaz. vol. 171; p. 538.
Ayres, Clarence M., Tuscaloosa, Ala. Trolley-track safety-switch. No. 981,237; Jan. 10; Sp. p. 2454; Gaz. vol. 162; p. 398.
Ayres, Gustav. (See Osgood and Ayres.)
Ayres, Gustav, assignor to G. R. Brown, Washington, D. C. Device for removing wall-paper. No. 992,536; May 16; Sp. p. 3674; Gaz. vol. 166; p. 658.
Ayres, Joseph. (See Wieler, Beuligmann, and Ayres.)
Ayton, Francis R. (See Oglesby and Ayton.)
Azarola y Gresillon, Antonio. (See Diaz and Azarola y Gresillon.)
B. Shoninger Co. (See Bein, William A., assignor.)
B. A. Ballou and Company. (See Morehouse, Eugene, assignor.)
B. A. Ballou & Company. (See Morehouse, Eugene W., assignor.)
B. F. Goodrich Company. (See Gammeter, John R., assignor.)
B. F. Goodrich Company, The. (See Hemenover, William E., assignor.)
B. F. Luke Company. (See Luke and Allen, assignors.)
B. F. Perkins and Son. (See Perkins and Putnam, assignors.)
B. F. Perkins and Son. (See Perkins, Putnam, and Munson, assignors.)
B. F. Sturtevant Company. (See Freeman, Ernest B., assignor.)
B. F. Sturtevant Company. (See Snow, William E., assignor.)
B. F. & H. L. Sweet Company. (See Siebenhaar, Otto W., assignor.)
Baab, Jacob A., and D. Rohrer, New York, N. Y. Automatic bilge-bailer. No. 987,532; Mar. 21; Sp. p. 3719; Gaz. vol. 164; p. 665.
Baack, Peter H., San Francisco, Cal. Screen-rim. No. 988,296; Apr. 4; Sp. p. 3; Gaz. vol. 165; p. 3.
Baade, John, Waco, Tex. Compressing-machine. No. 991,412; May 2; Sp. p. 1246; Gaz. vol. 166; p. 208.
Baar, Peter, Chicago, Ill. Fire-bucket. No. 997,536; July 11; Sp. p. 1942; Gaz. vol. 168; p. 348.
Babb, John A., and B. A. McDonald, Frederick, Okla. Combination burner and stove. No. 980,182; Jan. 3; Sp. p. 12; Gaz. vol. 162; p. 4.
Babb, William H. (See Pinkham and Babb.)
Babbitt, Edwin B., U. S. Army. Grenade. No. 981,357; Jan. 10; Sp. p. 2713; Gaz. vol. 162; p. 440.
Babbitt, George E., Albany, N. Y. Door for hopper-bottom cars. No. 1,011,008; Dec. 5; Sp. p. 1330; Gaz. vol. 173; p. 212.
Babcock, Bertha C., administratrix. (See Babcock, William G.)
Babcock Box Company. (See Prahl, Frederick A., assignor.)
Babcock, Fred A., Wyndmoor, Pa. Blast-nozzle. No. 992,144; May 16; Sp. p. 2782; Gaz. vol. 166; p. 520.
Babcock, Garrison, assignor to Telechronometer Company, Rochester, N. Y. Telephone-service metering system and apparatus. No. 1,012,793; Dec. 26; Sp. p. 5322; Gaz. vol. 173; p. 947.
Babcock, Ira J. (See McNeill and Babcock.)
Babcock, Irwin H., *et al.* (See Messenger, Isaiah L., assignor.)
Babcock, Norman S., assignor of one-half to W. D. Wilson, Matawatchan, Ontario, Canada. Rail-chair. No. 995,941; June 20; Sp. p. 4031; Gaz. vol. 167; p. 701.
Babcock & Wilcox Company, The. (See Bell, John E., assignor.)
Babcock & Wilcox Company, The. (See Butler and Slee, assignors.)
Babcock & Wilcox Company, The. (See Chester and Rust, assignors.)
Babcock & Wilcox Company, The. (See Peabody, Ernest H., assignor.)
Babcock & Wilcox Company, The. (See Sewall, Minott W., assignor.)
Babcock and Wilcox Company, The. (See Sewall and Jacobus, assignors.)
Babcock, William G., deceased, New York; B. C. Babcock, administratrix, assignor, by mesne assignments, of one-half to Union Typewriter Company, Ilion, N. Y. Type-writer. No. 989,222; Apr. 11; Sp. p. 1953; Gaz. vol. 165; p. 338.
Baber, Thomas F., Rockford, Ill. Eyeglasses. No. 986,795; Mar. 14; Sp. p. 2200; Gaz. vol. 164; p. 383.
Baber, William F., Montgomery, W. Va. Device for retaining fillings in teeth. No. 990,621; Apr. 25; Sp. p. 5056; Gaz. vol. 165; p. 881.
Babin, Jules A., Versailles, France. Explosion cycle and motor of atmospheric type. No. 1,005,680; Oct. 10; Sp. p. 2445; Gaz. vol. 171; p. 420.
Babin, Telesphore, Houma, La. Lift-pump. No. 989,475; Apr. 11; Sp. p. 2495; Gaz. vol. 165; p. 423.
Babington, Thomas J., *et al.* (See Lemons, William D., assignor.)
Babington, William D., *et al.* (See Lemons, William D., assignor.)
Babler, Edmund A., St. Louis, Mo. Medical apparatus. No. 986,618; Mar. 14; Sp. p. 1827; Gaz. vol. 164; p. 324.
Babo, Alexander F. L. von, Chicago, Ill. Trunnion bascule-bridge. No. 1,001,800; Aug. 29; Sp. p. 5558; Gaz. vol. 169; p. 1020.
Babson, Henry B., and A. Haug, New York, N. Y., assignors, by mesne assignments, to Victor Talking Machine Company. Talking-machine. No. 1,005,765; Oct. 10; Sp. p. 2609; Gaz. vol. 171; p. 450.
Babst, Effie A., Crestline, Ohio. Sectional railway-rail. No. 1,005,124; Oct. 10; Sp. p. 1178; Gaz. vol. 171; p. 222.
Babst, Joseph C., and H. H. Pierce, Barnesville, Minn. Fire-hose coupling. No. 999,946; Aug. 8; Sp. p. 1508; Gaz. vol. 169; p. 286.
Babst, Joseph C., and J. H. Fisch, Barnesville, assignors to Fergus Falls Rotary Ice Plow Company, Fergus Falls, Minn. Ice-cutting machine. No. 1,009,884; Nov. 28; Sp. p. 4964; Gaz. vol. 172; p. 897.
Bach, Albert D., Knights Ferry, Cal. Vise attachment. No. 986,619; Mar. 14; Sp. p. 1828; Gaz. vol. 164; p. 324.
Bach, Julius H., Chicago, Ill. Burning brick. No. 1,008,300; Nov. 14; Sp. p. 1435; Gaz. vol. 172; p. 268.
Bach, Leopold, Hamburg, and H. Dreyer, Berlin, Germany; said Dreyer assignor to said Bach. Type-writer. No. 1,012,583; Dec. 26; Sp. p. 4849; Gaz. vol. 173; p. 874.
Bachand, Albert J., and W. D. Blossfield, Providence, R. I. Fiber-needle cutter. No. 1,009,009; Nov. 14; Sp. p. 3082; Gaz. vol. 172; p. 512.
Bachand, Levi N., Chicago, Ill. Furniture. No. 993,636; May 30; Sp. p. 6022; Gaz. vol. 166; p. 1095.

Alphabetical list of patentees—Continued.

Bache-Wiig, Jens, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Synchronous dynamo-electric machine. No. 980,183; Jan. 3; Sp. p. 14; Gaz. vol. 162; p. 4.
Bachelder, Elmer N., Portland, Me. Tea-infuser. No. 996,305; June 27; Sp. p. 4865; Gaz. vol. 167; p. 858.
Bachelet, Emile, New York, N. Y. Synchronizing-interrupter for electric currents. No. 986,039; Mar. 7; Sp. p. 608; Gaz. vol. 164; p. 98.
Bachelet, Emile, New York, N. Y. Electromagnetic sound-wave therapeutic apparatus. No. 1,001,236; Aug. 22; Sp. p. 4386; Gaz. vol. 169; p. 798.
Bachle, Frank X., and J. C. L. Krebs, Clyde, Ohio. Internal-combustion engine. No. 997,258; July 11; Sp. p. 1391; Gaz. vol. 168; p. 257.
Bachman, John S. (See McLin and Bachman.)
Bachman, John S., and C. E. McLin, Rome, Ga. Straightening-machine. No. 998,448; July 18; Sp. p. 4020; Gaz. vol. 168; p. 713.
Bachmann, Robert A., Newport, R. I. Surgical instrument. No. 998,148; July 18; Sp. p. 3360; Gaz. vol. 168; p. 606.
Bachmann, Siegmund, Chicago, Ill. Folding box. No. 987,280; Mar. 21; Sp. p. 3220; Gaz. vol. 164; p. 581.
Bachmann, Walter, Langengrobsdorf, Germany. Hatching apparatus for eggs. No. 987,686; Mar. 28; Sp. p. 4069; Gaz. vol. 164; p. 747.
Bachrach, Janet S. (See Bachrach, Sampson, assignor.)
Bachrach, Sampson, assignor to J. S. Bachrach, Chicago, Ill. Display-cabinet. No. 1,012,965; Dec. 26; Sp. p. 5728; Gaz. vol. 173; p. 1005.
Bacigalupi, Frank, San Francisco, Cal. Curtain and shade support. No. 983,420; Feb. 7; Sp. p. 340; Gaz. vol. 163; p. 57.
Bacigalupi, Natalin, Babylon, N. Y. Sprinkling apparatus. No. 1,008,004; Nov. 7; Sp. p. 780; Gaz. vol. 172; p. 123.
Back, Ernest, New York, N. Y. Bone-sawing attachment for food-choppers. No. 984,413; Feb. 14; Sp. p. 2496; Gaz. vol. 163; p. 423.
Back, John N., Seattle, Wash. Nut-lock. No. 1,011,711; Dec. 12; Sp. p. 2955; Gaz. vol. 173; p. 494.
Back, John N., Seattle, Wash. Tunnel-excavating machine. No. 1,011,712; Dec. 12; Sp. p. 2957; Gaz. vol. 173; p. 495.
Backman, Charles M., Los Angeles county, Cal. Vehicle-wheel. No. 980,474; Jan. 3; Sp. p. 637; Gaz. vol. 162; p. 105.
Backman, Charles M., Los Angeles county, Cal. Spring-wheel. No. 981,831; Jan. 17; Sp. p. 3695; Gaz. vol. 162; p. 625.
Backstrom, Henning, Chicago, Ill. Combination rule, bevel-square, gage, and compass. No. 1,009,214; Nov. 21; Sp. p. 3554; Gaz. vol. 172; p. 620.
Backus, J. Clayton. (See Keene, John G., assignor.)
Backus, Jonathan, Vaughan, W. Va. Rail. No. 983,471; Feb. 7; Sp. p. 465; Gaz. vol. 163; p. 74.
Backus, Oscar J. (See Crane and Backus.)
Bacon, Arthur S., Oklahoma, Okla. Brick-machine. No. 994,560; June 6; Sp. p. 954; Gaz. vol. 167; p. 158.
Bacon, Frank R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Multiple-switch starter. No. 993,434; May 30; Sp. p. 5587; Gaz. vol. 166; p. 1025.
Bacon, Frederic W., Englewood, N. J. Protection for rack-work of ferry-slips. No. 988,064; Mar. 28; Sp. p. 4939; Gaz. vol. 164; p. 877.
Bacon, L. S., receiver. (See Adair, Charles E., assignor.)
Bade, Charles W., Chicago, Ill., assignor to Mammoth Manufacturing Company. Hinge. No. 1,001,575; Aug. 22; Sp. p. 5056; Gaz. vol. 169; p. 911.
Badeau, Charles C., Bethlehem, Pa., assignor, by mesne assignments, to Roller-Smith Company, New York, N. Y. Circuit-breaker. No. 993,637; May 30; Sp. p. 6026; Gaz. vol. 166; p. 1095.
Badeau, Charles C., Bethlehem, Pa., assignor, by mesne assignments, to Roller-Smith Company, New York, N. Y. Switch or circuit-opener for high-potential circuits. No. 996,394; June 27; Sp. p. 5058; Gaz. vol. 167; p. 891.
Badeau, Charles C., Bethlehem, Pa., assignor, by mesne assignments, to Roller-Smith Company, New York, N. Y. Circuit-breaker. No. 1,006,522; Oct. 24; Sp. p. 4329; Gaz. vol. 171; p. 777.
Badeau, Charles C. and I. F., Bethlehem, Pa., assignors, by mesne assignments, to Roller-Smith Company, New York, N. Y. Circuit-breaker. No. 996,393; June 27; Sp. p. 5056; Gaz. vol. 167; p. 890.
Badeau, Isaac F. (See Badeau, Charles C. and I. F.)
Badeau, Louis C., New York, N. Y. Airship. No. 1,010,718; Dec. 5; Sp. p. 710; Gaz. vol. 173; p. 112.
Badenhausen, John P., Seattle, Wash. Steam-generator. No. 990,622; Apr. 25; Sp. p. 5058; Gaz. vol. 165; p. 881.
Badenius, Henry. (See Russell, John A., assignor.)
Bader, Gustav A., Rochester, N. Y. Eyeglass-mounting. No. 989,551; Apr. 18; Sp. p. 2698; Gaz. vol. 165; p. 481.
Bader, Gustav A., Rochester, assignor to The Standard Optical Company, Geneva, N. Y. Axis-indicator. No. 981,832; Jan. 17; Sp. p. 3695; Gaz. vol. 162; p. 625.
Bader, Joseph, Buchloe, Germany. Mowing-machine. No. 999,291; Aug. 1; Sp. p. 186; Gaz. vol. 169; p. 35.
Badge, Francis J., New York, N. Y. Die-maker's square. No. 984,995; Feb. 21; Sp. p. 3722; Gaz. vol. 163; p. 658.
Badger, Arthur C., Newton, Mass. Window. No. 991,471; May 9; Sp. p. 1377; Gaz. vol. 166; p. 260.
Badger Brass Manufacturing Company, The. (See Longstaff, Frank, assignor.)
Badger Brass Manufacturing Company, The. (See Welles, Richard H., assignor.)
Badger, George E., Mayger, Oreg. Bilge-pump. No. 1,008,235; Nov. 7; Sp. p. 1272; Gaz. vol. 172; p. 207.
Badger, George L., Quincy, Mass. Engine-driven compressor. No. 992,932; May 23; Sp. p. 4515; Gaz. vol. 166; p. 827.
Badger, George L., Quincy, Mass. Pneumatic hammer. No. 998,226; July 18; Sp. p. 3522; Gaz. vol. 168; p. 634.
Badger, George L., Quincy, Mass. Direct-acting engine. No. 998,563; July 18; Sp. p. 4247; Gaz. vol. 168; p. 752.
Badger, George M. and G. T., Quitman, Ga. Wheel. No. 1,008,517; Nov. 14; Sp. p. 2013; Gaz. vol. 172; p. 344.
Badger, George T. (See Badger, George M. and G. T.)
Badger, John A., Ellwood City, Pa. Nut-lock. No. 1,010,109; Nov. 28; Sp. p. 5431; Gaz. vol. 172; p. 974.
Badger, Luther, St. Johns, Oreg. Roller-bearing. No. 990,946; May 2; Sp. p. 254; Gaz. vol. 166; p. 44.
Badische Anilin & Soda Fabrik. (See Bosch, Carl, assignor.)
Badische Anilin & Soda Fabrik. (See Bosch and Mittasch, assignors.)
Badische Anilin & Soda Fabrik. (See Haber and Le Rossignol, assignors.)
Badische Anilin & Soda Fabrik. (See Isler, Max H., assignor.)
Badische Anilin & Soda Fabrik. (See Julius and Fussenegger, assignors.)
Badische Anilin & Soda Fabrik. (See Just and Wolff, assignors.)
Badische Anilin & Soda Fabrik. (See Kalb, Ludwig, assignor.)
Badische Anilin & Soda Fabrik. (See Kunz, Max A., assignor.)
Badische Anilin & Soda Fabrik. (See Lüttringhaus, Arthur, assignor.)
Badische Anilin & Soda Fabrik. (See Münch, Edward, assignor.)
Badische Anilin & Soda Fabrik. (See Oberreit, Paul E., assignor.)
Badische Anilin & Soda Fabrik. (See Oberreit and Jahrmarkt, assignors.)
Badische Anilin & Soda Fabrik. (See Schmid, Henri, assignor.)
Badische Anilin & Soda Fabrik. (See Schönherr and Hessberger, assignors.)
Badische Anilin & Soda Fabrik. (See Stiegelmann and Dehnel, assignors.)
Badische Anilin & Soda Fabrik. (See Villiger and Fussenegger, assignors.)
Badische Anilin & Soda Fabrik. (See Wolff, Hugo, assignor.)
Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold und Sebold & Neff. (See Landvatter, Otto H., assignor.)
Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold und Sebold & Neff. (See Schmidt, Jakob, assignor.)
Badisco, Nicolas, New York, N. Y. Amusement device. No. 985,880; Mar. 7; Sp. p. 254; Gaz. vol. 164; p. 42.
Badman, Scott W., Continental, Ohio. Automatic fork-tripping means. No. 985,242; Feb. 28; Sp. p. 4306; Gaz. vol. 163; p. 778.
Baechler, Carl A., Zurich, Switzerland. Soluble casein. No. 999,083; July 25; Sp. p. 5445; Gaz. vol. 168; p. 969.
Baechler, Carl A., Zurich, Switzerland. Soluble casein. No. 999,084; July 25; Sp. p. 5446; Gaz. vol. 168; p. 969.
Baeder, Charles W., Memphis, Tenn. Railway-tie. No. 991,188; May 2; Sp. p. 767; Gaz. vol. 166; p. 131.
Baehr, William A., assignor to The Reliance Engineering & Manufacturing Company of Chicago, Chicago, Ill. Gas-regulator. No. 986,343; Mar. 7; Sp. p. 1219; Gaz. vol. 164; p. 197.
Baehr, William A., assignor to The Reliance Engineering & Manufacturing Company of Chicago, Chicago, Ill. Automatic gas-regulator. No. 986,344; Mar. 7; Sp. p. 1222; Gaz. vol. 164; p. 198.
Baekeland, Leo H., Yonkers, N. Y. Coated object and making the same. No. 982,230; Jan. 24; Sp. p. 4542; Gaz. vol. 162; p. 791.
Baer, Frank E. (See Strong and Baer.)
Baer, Harry H., assignor of one-sixth to W. Baer, one-third to R. A. Kinney, and one-third to H. E. Newman, Orrville, Ohio. Clutch mechanism. No. 984,523; Feb. 21; Sp. p. 2771; Gaz. vol. 163; p. 495.
Baer, Harvey E. (See Prunley and Baer.)
Baer, Sylvan T., Dallas, Tex. Refrigerator. No. 995,052; June 13; Sp. p. 2114; Gaz. vol. 167; p. 367.
Baer, William, *et al.* (See Baer, Harry H., assignor.)
Baerbalck, Hans. (See Gibson and Baerbalck.)
Baerbalck, Hans, assignor to The Hamilton Machine Tool Company, Hamilton, Ohio. Gearing. No. 994,899; June 13; Sp. p. 1788; Gaz. vol. 167; p. 315.

Alphabetical list of patentees—Continued.

Baerbalck, Hans, and C. D. Gibson, assignors to The Hamilton Machine Tool Company, Hamilton, Ohio. Gearing. No. 1,003,315; Sept. 12; Sp. p. 2476; Gaz. vol. 170; p. 427.
Baerenklau, Albert, J. L. Flanagan, and J. L. Winters, New York, N. Y. Radiator. No. 1,011,880; Dec. 12; Sp. p. 3320; Gaz. vol. 173; p. 551.
Bagalio, Andrew A., assignor, by mesne assignments, to Andrews Floor Planing and Surfacing Company, New York, N. Y. Floor-surfacing machine. No. 982,759; Jan. 24; Sp. p. 5666; Gaz. vol. 162; p. 971.
Bagalio, Andrew A., assignor to H. Rowland, New York, N. Y. Sandpapering-roller. No. 982,774; Jan. 24; Sp. p. 5694; Gaz. vol. 162; p. 976.
Bagge, Peter E., Moline, Ill. Punch-press. No. 989,476; Apr. 11; Sp. p. 2496; Gaz. vol. 165; p. 423.
Baginksy, Wilhelm, Königsberg, Germany. Apparatus for the disinfection of closet-seats. No. 984,734; Feb. 21; Sp. p. 3226; Gaz. vol. 163; p. 571.
Bagley, Marion L., Alameda, Cal. Hat-pin. No. 989,223; Apr. 11; Sp. p. 1961; Gaz. vol. 165; p. 338.
Bagley, Orin, Waltham, assignor of one-half to A. M. Cole, Lexington, Mass. Furnace-regulator. No. 1,012,584; Dec. 26; Sp. p. 4851; Gaz. vol. 173; p. 874.
Bagnall, Arthur G., Cleveland, Ohio. Sash-cord attachment. No. 999,292; Aug. 1; Sp. p. 186; Gaz. vol. 169; p. 35.
Bahan, Andrew, Sydney, New South Wales, Australia. Tent construction. No. 985,243; Feb. 28; Sp. p. 4308; Gaz. vol. 163; p. 779.
Bahmann, Richard, assignor to The Blymyer Iron Works Company, Cincinnati, Ohio. Coffee-pulper. No. 991,413; May 2; Sp. p. 1250; Gaz. vol. 166; p. 209.
Bahni, Frederick J., Peoria, Ill. Tool-holder. No. 996,195; June 27; Sp. p. 4612; Gaz. vol. 167; p. 823.
Bahr, Amel F. and O. B., Marion, Ind. Beating-engine bed-plate. No. 993,494; May 30; Sp. p. 5721; Gaz. vol. 166; p. 1046.
Bahr, Otto B. (See Bahr, Amel F. and O. B.)
Baier, Ethelbert, Boston, Mass. Printing-press. No. 1,004,229; Sept. 26; Sp. p. 4526; Gaz. vol. 170; p. 801.
Bailey, Adam N., assignor of one-half to H. V. Smith, Schuyler, Pa. Ball-caster. No. 982,409; Jan. 24; Sp. p. 4930; Gaz. vol. 162; p. 854.
Bailey, Charles. (See Sullivan, Charles E., assignor.)
Bailey, Clarence R., Los Angeles, Cal. Automatic switch. No. 982,410; Jan. 24; Sp. p. 4931; Gaz. vol. 162; p. 854.
Bailey, Edgerly R., Clarinda, Iowa. Centrifugal separator. No. 1,006,622; Oct. 24; Sp. p. 4567; Gaz. vol. 171; p. 814.
Bailey, Frank, and F. H. Jackson, London, England. Apparatus for straining liquids. No. 996,553; June 27; Sp. p. 5384; Gaz. vol. 167; p. 942.
Bailey, Fred C., and B. Hoey, Rib Lake, Wis. Drop-spike and corner-bind for logging-cars and the like. No. 997,032; July 4; Sp. p 942; Gaz. vol. 168; p. 150.
Bailey, Gilbert E., Los Angeles, Cal. Making material for explosives. No. 989,519; Apr. 11; Sp. p. 2598; Gaz. vol. 165; p. 439.
Bailey, Harry E., Albany, N. Y. Air-compressor. No. 992,634; May 16; Sp. p. 3880; Gaz. vol. 166; p. 691.
Bailey, James N., Stretford, England, assignor to The Westinghouse Machine Company. Propulsion of vessels in water. No. 993,638; May 30; Sp. p. 6028; Gaz. vol. 166; p. 1096.
Bailey, John B., Forest Hill, Md. Car-fender. No. 993,639; May 30; Sp. p. 6033; Gaz. vol. 166; p. 1096.
Bailey, Joseph W., Drybranch, Ga. Drying-car. No. 986,345; Mar. 7; Sp. p. 1227; Gaz. vol. 164; p. 198.
Bailey, Leonard C., Chicago, Ill. Toy. No. 984,735; Feb. 21; Sp. p. 3226; Gaz. vol. 163; p. 571.
Bailey, Percy T., Newport, R. I. Anchoring-base for posts. No. 980,736; Jan. 3; Sp. p. 1199; Gaz. vol. 162; p. 192.
Bailey, Ralph, Marion, Ind. Mouthpiece for horns. No. 1,003,578; Sept. 19; Sp. p. 3046; Gaz. vol. 170; p. 549.
Bailey, Theodorus S., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Fitting submarine signaling apparatus to vessels. No. 996,395; June 27; Sp. p. 5062; Gaz. vol. 167; p. 891.
Bailey, Walter A., Paulsboro, N. J. Combination-padlock. No. 985,495; Feb. 28; Sp. p. 4869; Gaz. vol. 163; p. 864.
Bailey, William H., deceased, Wheeling, W. Va.; U. G. Jones, administrator. Furnace. No. 1,002,193; Aug. 29; Sp. p. 6363; Gaz. vol. 169; p. 1149.
Bailey, William R., Vidal, Cal. Amusement device. No. 1,008,518; Nov. 14; Sp. p. 2017; Gaz. vol. 172; p. 344.
Bailey, William R., Kansas City, Kans. Collapsible shipping-case. No. 1,010,841; Dec. 5; Sp. p. 984; Gaz. vol. 173; p. 154.
Baillot, Alphonse, Montreal, Quebec, Canada. Lateral-blast Bessemer converter. No. 989,890; Apr. 18; Sp. p. 3418; Gaz. vol. 165; p. 596.
Bailly, Paul E., M. A. Vautier, and E. C. M. Godard, Paris, France. Sock and like suspender. No. 997,033; July 4; Sp. p. 945; Gaz .vol. 168; p. 150.
Baily, Thaddeus F., assignor to The Electric Furnace Company, Alliance, Ohio. Furnace. No. 991,929; May 9; Sp. p. 2352; Gaz. vol. 166; p. 418.
Bain, George G., New York, N. Y. Printing apparatus. No. 1,012,585; Dec. 26; Sp. p. 4853; Gaz. vol. 173; p. 874.
Bain, James, Waipahi, New Zealand. Expanding horse-hoe. No. 1,001,801; Aug. 29; Sp. p. 5563; Gaz. vol. 169; p. 1020.
Bain, John E., Montpelier, assignor to The National Water Softener Company, Muncie, Ind. Water-softener. No. 989,942; Apr. 18; Sp. p. 3549; Gaz. vol. 165; p. 616.
Bain, Robert C., Chicago, Ill. Folding leg for trunks. No. 995,942; June 20; Sp. p. 4033; Gaz. vol. 167; p. 702.
Bainer, Joseph M., Marysville, Ohio. Chair. No. 1,011,713; Dec. 12; Sp. p. 2959; Gaz. vol. 173; p. 495.
Baines, James E., trustee. (See Talbutt, Robert H., assignor.)
Bair, Clarence L., San Francisco, Cal. Curtain-fastener. No. 990,947; May 2; Sp. p. 255; Gaz. vol. 166; p. 45.
Bair, Clarence L., San Francisco, Cal., assignor to Auto Specialties Manufacturing Company. Vehicle-top bow-holder. No. 1,010,110; Nov. 28; Sp. p. 5433; Gaz. vol. 172; p. 974.
Bair, Erasmus V., Kansas City, Kans. Punching-machine. No. 997,946; July 18; Sp. p. 2909; Gaz. vol. 168; p. 534.
Bair, George R., assignor of one-third to R. W. Weeks and one-third to E. Hartwick, Belvue, Kans. Harness. No. 987,847; Mar. 28; Sp. p. 4408; Gaz. vol. 164; p. 802.
Bair, George R., assignor of one-third to H. E. Shortt and one-third to J. W. Garrett, Belvue, Kans. Climbing device. No. 991,472; May 9; Sp. p. 1378; Gaz. vol. 166; p. 260.
Bair, George R., assignor of one-third to H. E. Short and one-third to C. Miller, Belvue, Kans. Wrench. No. 994,364; June 6; Sp. p. 548; Gaz. vol. 167; p. 94.
Bair, John P., Belvue, Kans. Door-closing device. No. 995,212; June 13; Sp. p. 2410; Gaz. vol. 167; p. 418.
Bair, John P., assignor of one-third to R. W. Weeks, Belvue, Kans. Buckle. No. 988,617; Apr. 4; Sp. p. 707; Gaz. vol. 165; p. 113.
Bair, Leo C., York, Pa. Umbrella. No. 1,006,454; Oct. 24; Sp. p. 4168; Gaz. vol. 171; p. 752.
Baird, Chester R., New York, N. Y. Terminal or lug for electrical conductors. No. 982,563; Jan. 24; Sp. p. 5258; Gaz. vol. 162; p. 907.
Baird, Frank S., and W. Peters, Congress, Ariz. Automobilist's tool. No. 997,227; July 4; Sp. p. 1324; Gaz. vol. 168; p. 216.
Baird, George W., Warren, Pa. Self-lubricating pump-plunger. No. 987,788; Mar. 28; Sp. p. 4283; Gaz. vol. 164; p. 781.
Baird, Jasper M. (See Humphrey, Edwin H., assignor.)
Baird Machine Company, The. (See Lewis, Arthur J., assignor.)
Baird Manufacturing Company. (See Smith, Allen B., assignor.)
Baird, Myron T., St. Louis, Mo. Vehicle-lock. No. 981,907; Jan. 17; Sp. p. 3872; Gaz. vol. 162; p. 651.
Baird, Robert, West Orange, N. J. Selvage-printing machine. No. 1,002,624; Sept. 5; Sp. p. 996; Gaz. vol. 170; p. 148.
Baird. Thomas G., Ladd, Ill. Safety mechanism for mine cages and elevators. No. 981,908; Jan. 17; Sp. p. 3876; Gaz. vol. 162; p. 651.
Baird, William C., Colorado Springs, Colo. Game apparatus. No. 985,384; Feb. 28; Sp. p. 4601; Gaz. vol. 163; p. 825.
Baird, William C., Colorado Springs, Colo. Manicuring implement. No. 1,001,727; Aug. 29; Sp. p. 5392; Gaz. vol. 169; p. 995.
Baird, William W., Cleveland, Ohio. Box. No. 997,109; July 4; Sp. p. 1083; Gaz. vol. 168; p. 175.
Baird, Willie D., Annona, Tex. Popcorn-parcher. No. 995,762; June 20; Sp. p. 3653; Gaz. vol. 167; p. 638.
Baird, Zean A. (See Knowles, Baird, and Heselden.)
Baisden, John H., Jr., Dott, W. Va. Dumping-car. No. 1,001,334; Aug. 22; Sp. p. 4597; Gaz. vol. 169; p. 832.
Baisden, John H., Jr., Chattaroy, assignor of one-half to W. P. Buckwalter, Matewan, W. Va. Car-dumping mechanism. No. 983,110; Jan. 31; Sp. p. 6438; Gaz. vol. 162; p. 1119.
Baisley, Walter A. (See Carrick and Baisley.)
Baj, Clement, Lyon, assignor to Compagnie Francaise Des Applications De La Cellulose, Paris, France. Machine for the manuafcture of artificial tissues. No. 995,652; June 20; Sp. p. 3407; Gaz. vol. 167; p. 600.
Bajde, Ludwig, Schischka, near Laibach, Austria-Hungary. Automatic piano-violin. No. 991,596; May 9; Sp. p. 1658; Gaz. vol. 166; p. 305.
Bajde, Ludwig, Schischka, near Laibach, Austria-Hungary. Piano-violin. No. 999,427; Aug. 1; Sp. p. 463; Gaz. vol. 169; p. 81.
Bajluk, Adolf, McKeesport, Pa. Cuspidor. No. 991,263; May 2; Sp. p. 932; Gaz. vol. 166; p. 157.
Bajza, Aladar de, London, England. Airship. No. 1,009,010; Nov. 14; Sp. p. 3084; Gaz. vol. 172; p. 513.
Bakarcih, Joseph A., West Blocton, Ala. Marine table. No. 983,111; Jan. 31; Sp. p. 6443; Gaz. vol. 162; p. 1119.
Baker, Abner. D., Swanton, Ohio. Variable-cut-off valve-gear for engines. No. 1,008,405; Nov. 14; Sp. p. 1744; Gaz. vol. 172; p. 305.
Baker, Alfred Z., Nutley, N. J. Toy kinematograph. No. 1,002,483; Sept. 5; Sp. p. 685; Gaz. vol. 170; p. 100.

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Baker, Andrew H., Brockton, Mass. Poultry-feeder. No. 988,962; Apr. 11; Sp. p. 1405; Gaz. vol. 165; p. 249.
Baker, Arthur G., Cambridge, assignor, by mesne assignments, to D. E. Bigelow, New York, N. Y. Gas-regulating valve. No. 1,007,664; Nov. 7; Sp. p. 8; Gaz. vol. 172; p. 4.
Baker, Arthur H., Pensacola, Fla. Gutter. No. 990,623; Apr. 25; Sp. p. 5059; Gaz. vol. 165; p. 881.
Baker, Burton L., East Braintree, Mass., assignor, by mesne assignments, to G. Murch, Observatory Road, near Capetown, Cape Colony. Machine for dealing playing-cards. No. 999,428; Aug. 1; Sp. p. 464; Gaz. vol. 169; p. 81.
Baker, Charles F., Newton, Mass. Air-forcing apparatus. No. 990,948; May 2; Sp. p. 257; Gaz. vol. 166; p. 45.
Baker, Charles H. (See Rolfe and Baker.)
Baker, Charles V., Newberg, Oreg. Whip-socket. No. 1,005,498; Oct. 10; Sp. p. 2024; Gaz. vol. 171; p. 355.
Baker, Daniel W., Phillipston, Mass. Ice-pick. No. 982,564; Jan. 24; Sp. p. 5259; Gaz. vol. 162; p. 907.
Baker, David, Philadelphia, Pa. Rotary furnace. No. 1,004,340; Sept. 26; Sp. p. 4737; Gaz. vol. 170; p. 838.
Baker, Edwin A., New York, assignor to Rapid Removable Rim Company. Demountable-rim construction. No. 998,666; July 25; Sp. p. 4503; Gaz. vol. 168; p. 821.
Baker Electric Company, The. (See Heath, Harry E., assignor.)
Baker, Ernest C. (See Dingley, Benjamin F., assignor.)
Baker, Ernest M., assignor of one-fourth to M. J. McLeod, one-fourth to W. Roper, and one-fourth to A. L. Wurster, Detroit, Mich. Sash structure. No. 987,034; Mar. 14; Sp. p. 2674; Gaz. vol. 164; p. 463.
Baker, Eugene, assignor of one-half to C. H. Clayton, Los Angeles, Cal. Capping shaver and melter for honeycombs. No. 994,813; June 13; Sp. p. 1559; Gaz. vol. 167; p. 286.
Baker, Eustace T., Spokane, Wash. Individual-thermometer holder. No. 990,415; Apr. 25; Sp. p. 4607; Gaz. vol. 165; p. 810.
Baker, Frank D., Denver, Colo. Indicating mechanism for jigs or classifiers. No. 1,011,307; Dec. 12; Sp. p. 2052; Gaz. vol. 173; p. 352.
Baker, Frank E. (See Baker, George J. and F. E.)
Baker, Frank J., Harrisburg, Pa. Ellipsograph-machine. No. 1,007,910; Nov. 7; Sp. p. 595; Gaz. vol. 172; p. 92.
Baker, Fred A., Evansville, Wis. Compressor. No. 988,848; Apr. 4; Sp. p. 1180; Gaz. vol. 165; p. 188.
Baker, George E., Reed City, Mich. Traction device. No. 1,003,025; Sept. 12; Sp. p. 1868; Gaz. vol. 170; p. 323.
Baker, George F., Sharpsburg, Md. Vending-machine. No. 989,318; Apr. 11; Sp. p. 2179; Gaz. vol. 165; p. 371.
Baker, George J., assignor of one-half to P. Lacey, Republic, Pa. Dirigible headlight. No. 1,004,964; Oct. 3; Sp. p. 888; Gaz. vol. 171; p. 146.
Baker, George J. and F. E., Royal Oak, Mich. Driving mechanism. No. 1,010,111; Nov. 28; Sp. p. 5435; Gaz. vol. 172; p. 974.
Baker, George S., London, and J. Callow, Liverpool, England. Dough-molding apparatus. No. 1,007,665; Nov. 7; Sp. p. 10; Gaz. vol. 172; p. 4.
Baker, George W., Denver, Colo. Steam-engine. No. 987,035; Mar. 14; Sp. p. 2675; Gaz. vol. 164; p. 463.
Baker, George W., Rheems, Pa. Engine. No. 996,045; June 27; Sp. p. 4245; Gaz. vol. 167; p. 771.
Baker, George W., Rheems, Pa. Engine. No. 999,143; July 25; Sp. p. 5546; Gaz. vol. 168; p. 986.
Baker, George W., Rheems, Pa. Steam-engine. No. 1,012,050; Dec. 19; Sp. p. 3726; Gaz. vol. 173; p. 648.
Baker, George W., assignor of one-fourth to M. Ebersole, Rheems, Pa. Engine. No. 999,142; July 25; Sp. p. 5544; Gaz. vol. 168; p. 985.
Baker, George W., assignor to G. W. Baker Machine Company, Wilmington, Del. Machine for fleshing, unhairing, and working out hides and skins. No. 999,540; Aug. 1; Sp. p. 687; Gaz. vol. 169; p. 118.
Baker, J. L. (See Knox, George, assignor.)
Baker, Jesse J., Groveton, Tex. Refrigerator. No. 981,967; Jan. 17; Sp. p. 4027; Gaz. vol. 162; p. 672.
Baker, Joe B., Lawton, Okla. Cigar and pencil vending machine. No. 998,667; July 25; Sp. p. 4505; Gaz. vol. 168; p. 822.
Baker, John, Pasadena, Cal. Demountable rim. No. 1,001,802; Aug. 29; Sp. p. 5565; Gaz. vol. 169; p. 1020.
Baker, John, Passaic, assignor to J. B. Hopper, Ridgewood, N. J. Hanger for license-plates. No. 1,005,499; Oct. 10; Sp. p. 2026; Gaz. vol. 171; p. 355.
Baker, John S., Evansville, Wis. Starting-crank for explosive-engines. No. 983,800; Feb. 7; Sp. p. 1156; Gaz. vol. 163; p. 185.
Baker, John T., *et al.* (See Rist, Joseph, assignor.)
Baker, Joseph G., Vineland, N. J. Lathe tool-holder. No. 1,011,144; Dec. 12; Sp. p. 1668; Gaz. vol. 173; p. 294.
Baker, Joseph G., Vineland, N. J. Tool-holder. No. 1,011,714; Dec. 12; Sp. p. 2960; Gaz. vol. 173; p. 495.
Baker, Joseph G., Vineland, N. J. Right and left hand side and turning tool. No. 1,011,715; Dec. 12; Sp. p. 2961; Gaz. vol. 173; p. 495.
Baker, Joseph G., Vineland, N. J. Lathe tool-holder. No. 1,011,716; Dec. 12; Sp. p. 2962; Gaz. vol. 173; p. 495.
Baker, Joseph G., Vineland, N. J. Tool-holder. No. 1,011,717; Dec. 12; Sp. p. 2964; Gaz. vol. 173; p. 496.
Baker, Lewis T., Pensacola, Fla. Turpentine-gatherer. No. 994,900; June 13; Sp. p. 1789; Gaz. vol. 167; p. 315.
Baker, Littleton L., Denison, assignor of three-fourths to W. A. Link, Tarrant county, Tex. Truss. No. 1,002,625; Sept. 5; Sp. p. 1002; Gaz. vol. 170; p. 148.
Baker, Lura D., Albion, Mich. Hair-curler. No. 980,737; Jan. 3; Sp. p. 1201; Gaz. vol. 162; p. 192.
Baker Motor Vehicle Company, The. (See Gruenfeldt, Emil, assignor.)
Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Eyeglasses. No. 1,005,133; Oct. 10; Sp. p. 1193; Gaz. vol. 171; p. 224.
Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Tubular washer for eyeglasses. No. 1,005,766; Oct. 10; Sp. p. 2611; Gaz. vol. 171; p. 450.
Baker, Ransom E., and J. F. Scolaro, Cedar Rapids, Iowa. Dancing toy. No. 994,236; June 6; Sp. p. 282; Gaz. vol. 167; p. 48.
Baker, Raymond W., New York, N. Y., V. L. King, Woodridge, N. J., and H. C. Parker, assignors to Parker-Clark Electric Company, New York, N. Y. Electric cigar-lighter. No. 995,763; June 20; Sp. p. 3654; Gaz. vol. 167; p. 638.
Baker, Raymond W., New York, N. Y., V. L. King, Woodridge, N. J., and H. C. Parker, assignors to Parker-Clark Electric Company, New York, N. Y. Electrically-heated flat-iron. No. 999,541; Aug. 1; Sp. p. 692; Gaz. vol. 169; p. 118.
Baker, Rollyn H., Dayton, Ohio. Coin-controlled mechanism. No. 983,261; Feb. 7; Sp. p. 3; Gaz. vol. 163; p. 3.
Baker, Roy C., Boston, Mass. Pneumatic cleaning implement. No. 983,971; Feb. 14; Sp. p. 1553; Gaz. vol. 163; p. 273.
Baker, Stephen D., New York, N. Y. Safety-razor. No. 988,753; Apr. 4; Sp. p. 999; Gaz. vol. 165; p. 158.
Baker, Thomas W. (See Magee, Frederick W., assignor.)
Baker, Thomas W., New York, N. Y. Collapsible core. No. 1,007,413; Oct. 31; Sp. p. 6286; Gaz. vol. 171; p. 1143.
Baker, Walter, Wapato, Wash. Rivet and bur feeding mechanism for riveting-machines. No. 995,315; June 13; Sp. p. 2607; Gaz. vol. 167; p. 451.
Baker, Willard D., Rogers, Ark., assignor to J. W. Robinson. Fly-trap for screen-doors. No. 998,449; July 18; Sp. p. 4021; Gaz. vol. 168; p. 713.
Baker, William, Birmingham, England. Drop-down small-arm. No. 1,002,798; Sept. 5; Sp. p. 1362; Gaz. vol. 170; p. 207.
Baker, William H., Bridgeport, Conn. Submarine workshop. No. 1,008,301; Nov. 14; Sp. p. 1438; Gaz. vol. 172; p. 268.
Baker, William J., Newport, Ky. Seal. No. 984,736; Feb. 21; Sp. p. 3227; Gaz. vol. 163; p. 571.
Baker, William J., Newport, Ky. Window-screen. No. 1,004,721; Oct. 3; Sp. p. 381; Gaz. vol. 171; p. 63.
Bakke, Leopold, Chicago, Ill. Printing-press. No. 1,006,176; Oct. 17; Sp. p. 3541; Gaz. vol. 171; p. 626.
Bakke, Leopold, Chicago, Ill. Front guide for printing-presses. No. 1,011,009; Dec. 5; Sp. p. 1332; Gaz. vol. 173; p. 212.
Bakken, Thore A., Soldiers Grove, Wis. Trace-fastener. No. 1,009,461; Nov. 21; Sp. p. 4115; Gaz. vol. 172; p. 710.
Balazik, Martin, Republic, Pa. Feed-water regulator for boilers. No. 1,004,341; Sept. 26; Sp. p. 4740; Gaz. vol. 170; p. 838.
Balázs, Johan, assignor of one-fourth to M. Balint, one-fourth to V. Mihalj, and one-fourth to G. Hekkel, Michel, British Columbia, Canada. Stocking. No. 1,009,627; Nov. 21; Sp. p. 4432; Gaz. vol. 172; p. 764.
Balch, John H., Jr., *et al.* (See Littlefield, Charles W., assignor.)
Balch, Leland R. (See Balch, Rella W. and L. R.)
Balch, Rella W. and L. R., Neillsville, Wis. Car-step register. No. 1,005,681; Oct. 10; Sp. p. 2452; Gaz. vol. 171; p. 420.
Balcom, Henry D., Belfast, assignor of one-half to F. A. Hicks, Black Creek, N. Y. Fish-hook. No. 990,095; Apr. 18; Sp. p. 3848; Gaz. vol. 165; p. 666.
Balcome, Herbert A., Boston, assignor to The Holtzer-Cabot Electric Company, Brookline, Mass. Electric motor or generator. No. 1,004,230; Sept. 26; Sp. p. 4529; Gaz. vol. 170; p. 802.
Baldridge, Harry D., assignor to The Brown Clutch Company, Sandusky, Ohio. Friction-clutch. No. 991,817; May 9; Sp. p. 2127; Gaz. vol. 166; p. 379.
Baldwin, A. J., *et al.* (See Hendrix, Cherry L., assignor.)
Baldwin, Alfred, Sr., Goffs Falls, N. H. Cloth-pressing machine. No. 1,007,666; Nov. 7; Sp. p. 13; Gaz. vol. 172; p. 5.
Baldwin, Alfred R., Springfield, Mo. Auxiliary planter. No. 1,011,010; Dec. 5; Sp. p. 1334; Gaz. vol. 173; p. 212.
Baldwin, Allen J. (See Henning, Chester E., assignor.)
Baldwin, Angus M. (See Connell, William J., assignor.)

Alphabetical list of patentees—Continued.

Baldwin, Charles B., New York, N. Y. Box-covering machine. No. 984,641; Feb. 21; Sp. p. 3027; Gaz. vol. 163; p. 536.
Baldwin, Charles B., New York, N. Y. Internal-combustion engine. No. 996,196; June 27; Sp. p. 4614; Gaz. vol. 167; p. 823.
Baldwin, Curtis C., Nickerson, Kans. Standing-grain thresher. No. 1,004,134; Sept. 26; Sp. p. 4324; Gaz. vol. 170; p. 769.
Baldwin, Dayton A., Worcester, Mass., assignor to F. G. Crone, Buffalo, N. Y. Starting device for gas-engines. No. 1,009,011; Nov. 14; Sp. p. 3087; Gaz. vol. 172; p. 513.
Baldwin, Edward C., Boston, Mass. Bottle case or carrier. No. 985,320; Feb. 28; Sp. p. 4468; Gaz. vol. 163; p. 804.
Baldwin, Edward C., Boston, Mass. Tumbler case or holder. No. 992,471; May 16; Sp. p. 3532; Gaz. vol. 166; p. 634.
Baldwin, Francis H., and W. Graff, New York, N. Y.; said Graff assignor to said Baldwin. Eraser for ink, pigments, and the like. No. 1,005,924; Oct. 17; Sp. p. 2979; Gaz. vol. 171; p. 538.
Baldwin, Frank A., *et al.* (See Sage, Hayden W., assignor.)
Baldwin, Frank J. and J. R., Galion, Ohio. Adjustable ventilator. No. 997,947; July 18; Sp. p. 2912; Gaz. vol. 168; p. 535.
Baldwin, Fred, and W. Millerkee, Doyon, N. D. Cover for caldrons. No. 996,554; June 27; Sp. p. 5385; Gaz. vol. 167; p. 942.
Baldwin, Frederic E., New York, N. Y. Acetylene-gas burner. No. 994,365; June 6; Sp. p. 549; Gaz. vol. 167; p. 94.
Baldwin, Frederick W. (See Bell, Baldwin, McCurdy, Curtiss, and Selfridge.)
Baldwin, Frederick W., Toronto, Ontario, Canada, assignor to C. J. Bell, trustee, Washington, D. C. Flying-machine. No. 1,010,842; Dec. 5; Sp. p. 986; Gaz. vol. 173; p. 154.
Baldwin, Henry G., San Francisco, Cal. Elastic wheel. No. 980,738; Jan. 3; Sp. p. 1201; Gaz. vol. 162; p. 192.
Baldwin, Henry S., assignor, by mesne assignments, to The Columbia Motor Car Company, Hartford, Conn. Motor-vehicle. No. 992,472; May 16; Sp. p. 3535; Gaz. vol. 166; p. 635.
Baldwin, Henry S., Lynn, Mass., assignor to General Electric Company. Electric-motor attachment for sewing-machines. No. 993,944; May 30; Sp. p. 6669; Gaz. vol. 166; p. 1200.
Baldwin, James A., Maynard, Mass. Penholder. No. 981,358; Jan. 10; Sp. p. 2714; Gaz. vol. 162; p. 440.
Baldwin, Jerub R. (See Baldwin, Frank J. and J. R.)
Baldwin, Julius E., Manawa, Wis. Sleigh attachment. No. 1,004,722; Oct. 3; Sp. p. 383; Gaz. vol. 171; p. 63.
Baldwin Locomotive Works. (See Austin, William A., assignor.)
Baldwin Locomotive Works. (See Campbell, Harry A. F., assignor.)
Baldwin Locomotive Works. (See Henderson, George R., assignor.)
Baldwin, Thomas F., New York, N. Y. Vehicle-tire shoe. No. 986,670; Mar. 14; Sp. p. 1942; Gaz. vol. 164; p. 342.
Baldwin, William D., Hummelstown, Pa. Railway-switch. No. 997,174; July 4; Sp. p. 1220; Gaz. vol. 168; p. 197.
Baldwin, William D., New York, N. Y., and F. C. Furlow, Montclair, assignors to Otis Elevator Company, Jersey City, N. J. Controlling apparatus for plunger-brakes. No. 981,909; Jan. 17; Sp. p. 3878; Gaz. vol. 162; p. 652.
Baldwin, William G., Pittsburg, Pa. Loose-leaf holder. No. 988,686; Apr. 4; Sp. p. 845; Gaz. vol. 165; p. 136.
Bale, Emily C., Windsor, England. Adjustable holder for chalk and other marking substances. No. 1,012,503; Dec. 19; Sp. p. 4669; Gaz. vol. 173; p. 801.
Bales, Haden H., Ashcroft, British Columbia, Canada. Pyrotechnical auxiliary propelling mechanism for aerostructures. No. 1,003,411; Sept. 19; Sp. p. 2659; Gaz. vol. 170; p. 490.
Balfour, John W., Victoria, British Columbia, Canada. Spike. No. 1,001,335; Aug. 22; Sp. p. 4599; Gaz. vol. 169; p. 832.
Balg, Bernhard, Görlitz, Germany. Making hollow articles from plastic material. No. 1,012,232; Dec. 19; Sp. p. 4137; Gaz. vol. 173; p. 710.
Baling, John G., Baltimore, Md. Nut-lock. No. 996,962; July 4; Sp. p. 761; Gaz. vol. 168; p. 124.
Balint, Joseph, New Brunswick, N. J. Garden-seed planter. No. 988,539; Apr. 4; Sp. p. 531; Gaz. vol. 165; p. 85.
Balint, Mandi, *et al.* (See Balázs, Johan, assignor.)
Balke, Edward J., Pella, Wis. Gasolene-engine attachment. No. 990,330; Apr. 25; Sp. p. 4401; Gaz. vol. 165; p. 779.
Balkema, Charles E., Badgers, Ind. Corn gathering and husking machine. No. 996,604; July 4; Sp. p. 6; Gaz. vol. 168; p. 4.
Ball, Albert, assignor to Sullivan Machinery Company, Claremont, N. H. Pneumatic tool. No. 1,000,884; Aug. 15; Sp. p. 3591; Gaz. vol. 169; p. 645.
Ball, Albert, and H. H. Mercer, assignors to Sullivan Machinery Company, Claremont, N. H. Stone-cutting machine. No. 1,011,145; Dec. 12; Sp. p. 1669; Gaz. vol. 173; p. 295.
Ball, Arthur T., Mount Vernon, N. Y. Pin-guard. No. 1,004,231; Sept. 26; Sp. p. 4531; Gaz. vol. 170; p. 802.
Ball, Atkinson K., Coffeyville, Kans. Vehicle-body. No. 994,051; May 30; Sp. p. 6886; Gaz. vol. 166; p. 1237.
Ball, Augustus A., Jr., Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Fluid-pressure engine. No. 996,900; July 4; Sp. p. 621; Gaz. vol. 168; p. 102.
Ball, Augustus A., Jr., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 1,003,970; Sept. 26; Sp. p. 3905; Gaz. vol. 170; p. 711.
Ball, Augustus A., Jr., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 1,003,971; Sept. 26; Sp. p. 3910; Gaz. vol. 170; p. 711.
Ball, Bert C., Portland, Oreg. Demountable tire-rim. No. 999,085; July 25; Sp. p. 5447; Gaz. vol. 168; p. 969.
Ball, Bert C., Portland, Oreg. Demountable tire-rim. No. 999,086; July 25; Sp. p. 5448; Gaz. vol. 168; p. 969.
Ball, Charles W. (See Moodie and Ball.)
Ball, Daniel, West Burke, Vt. Tail-holder. No. 983,599; Feb. 7; Sp. p. 750; Gaz. vol. 163; p. 117.
Ball, Daniel F., assignor of one-third to W. A. Ball, Jeffersonton, Va. Cattle-guard. No. 995,943; June 20; Sp. p. 4034; Gaz. vol. 167: p. 702.
Ball, Edgar F., San Francisco, Cal. Box-pasting device. No. 982,115; Jan. 17; Sp. p. 4322; Gaz. vol. 162; p. 721.
Ball, Frank H. (See Ball, Frederick O., assignor.)
Ball, Frederick O., assignor of one-half to F. H. Ball, Plainfield, N. J. Coupling. No. 980,900; Jan. 10; Sp. p. 1587; Gaz. vol. 162; p. 278.
Ball, George W., Jr., Iowa City, Iowa. Land-record card-index. No. 1,012,586; Dec. 26; Sp. p. 4855; Gaz. vol. 173; p. 875.
Ball, Henry P., New York, N. Y., assignor of one-half to S. Insull, Chicago, Ill. Mechanical musical instrument. No. 984,256; Feb. 14; Sp. p. 2189; Gaz. vol. 163; p. 371.
Ball, Henry P., New York, N. Y., assignor of one-half to S. Insull, Chicago, Ill. Mechanical musical instrument. No. 984,257; Feb. 14; Sp. p. 2195; Gaz. vol. 163; p. 371.
Ball, Henry P., New York, and G. Wright, Schenectady, N. Y., assignors to General Electric Company. Circuit-breaker. No. 982,116; Jan. 17; Sp. p. 4323; Gaz. vol. 162; p. 721.
Ball, Horace E. (See Miller and Ball.)
Ball, Joseph E., Syracuse, N. Y. Taper-gage. No. 996,901; July 4; Sp. p. 628; Gaz. vol. 168; p. 102.
Ball, Rodney W., Purcellville, Va. Broom-support. No. 1,008,104; Nov. 7; Sp. p. 983; Gaz. vol. 172; p. 158.
Ball, Samuel M., assignor of one-half to H. Brune, Houston, Tex. Bat-former. No. 987,789; Mar. 28; Sp. p. 4284; Gaz. vol. 164; p. 781.
Ball, Samuel M., assignor of one-half to H. Brune, Houston, Tex. Bat-former. No. 987,790; Mar. 28; Sp. p. 4287; Gaz. vol. 164; p. 782.
Ball, William A. (See Ball, Daniel F., assignor.)
Ballance, Norman L., Pamlico, N. C. Vehicle-axle. No. 983,112; Jan. 31; Sp. p. 6445; Gaz. vol. 162; p. 1120.
Ballantine, Hamilton S., Germantown, Pa. Hedge-shears. No. 998,828; July 25; Sp. p. 4861; Gaz. vol. 168; p. 878.
Ballantyne, Robert, Glasgow, assignor to Stewarts & Lloyds, Limited, Coatbridge, Scotland. Branch pipe connection. No. 980,901; Jan. 10; Sp. p. 1589; Gaz. vol. 162; p. 278.
Ballard, Charles R., Midway, Pa. Valve. No. 1,003,412; Sept. 19; Sp. p. 2662; Gaz. vol. 170; p. 490.
Ballard, Charles R., Midway, Pa. Valve. No. 1,003,413; Sept. 19; Sp. p. 2665; Gaz. vol. 170; p. 490.
Ballard, Coke W., University Place, Nebr. Dredger. No. 991,473; May 9; Sp. p. 1379; Gaz. vol. 166; p. 261.
Ballard, Coke W., University Place, Nebr. Dredge. No. 1,004,723; Oct. 3; Sp. p. 385; Gaz. vol. 171; p. 64.
Ballard, Frederick W., Cleveland Heights, assignor to The Sherwin-Williams Company, Cleveland, Ohio. Paint-sprayer. No. 1,007,667; Nov. 7; Sp. p. 15; Gaz. vol. 172; p. 5.
Ballard, George L., assignor to Wildman Mfg. Co., Norristown, Pa. Dial connection and cutting attachment for knitting-machines. No. 1,007,629; Oct. 31; Sp. p. 6769; Gaz. vol. 171; p. 1217.
Ballard, George L., assignor to Wildman Mfg. Co., Norristown, Pa. Dial-holding device for knitting-machines. No. 1,012,966; Dec. 26; Sp. p. 5729; Gaz. vol. 173; p. 1005.
Ballard, Harlan H., Pittsfield, Mass. Sound-reproducing instrument. No. 985,496; Feb. 28; Sp. p. 4870; Gaz. vol. 163; p. 865.
Ballard, John J., and F. W. Parsons, Newark Valley, N. Y. Pump-valve. No. 980,184; Jan. 3; Sp. p. 15; Gaz. vol. 162; p. 5.
Ballard, John W., Indianapolis, Ind. Medical appliance. No. 993,945; May 30; Sp. p. 6672; Gaz. vol. 166; p. 1201.
Ballard, Silas, Temple, Tex. Bath-cabinet. No. 984,524; Feb. 21; Sp. p. 2773; Gaz. vol. 163; p. 496.
Ballard, Silas, Temple, Tex. Electric foot-warmer. No. 995,213; June 13; Sp. p. 2412; Gaz. vol. 167; p. 418.

Alphabetical list of patentees—Continued.

Ballard, Silas, Abilene, Tex. Elevator. No. 989,552; Apr. 18; Sp. p. 2700; Gaz. vol. 165; p. 481.
Ballentine, John R., Toledo, Ohio. Atomizer. No. 990,949; May 2; Sp. p. 261; Gaz. vol. 166; p. 46.
Ballew, Hensley T. (See Brown, Claud D., assignor.)
Balliett, Howard H., Pittsburgh, Pa. Flexible conduit. No. 1,005,134; Oct. 10; Sp. p. 1196; Gaz. vol. 171; p. 225.
Ballinger, Bert A., Los Angeles, Cal. Truck. No. 990,416; Apr. 25; Sp. p. 4608; Gaz. vol. 165; p. 810.
Ballintine, Frank J., assignor to Parker-Washington Company, Kansas City, Mo. Machine for heating surfaces. No. 1,007,173; Oct. 31; Sp. p. 5787; Gaz. vol. 171; p. 1058.
Ballmer, Albert, Napa, Cal. Horseshoe-spreader. No. 1,006,345; Oct. 17; Sp. p. 3923; Gaz. vol. 171; p. 685.
Ballou, Latimer H., Lawrence, Mass. Winding-machine. No. 983,600; Feb. 7; Sp. p. 751; Gaz. vol. 163; p. 117.
Ballou, William R., Boston, assignor of one-third to J. N. Rice, Quincy, Mass. Wrist-pad. No. 986,620; Mar. 14; Sp. p. 1829; Gaz. vol. 164; p. 324.
Ballul, John, Maspeth, N. Y. Clothes-line fastener. No. 1,012,587; Dec. 26; Sp. p. 4857; Gaz. vol. 173; p. 875.
Baltes, Hermann, München-Gladbach, Germany. Mud-eduction valve for steam-boilers and the like. No. 994,438; June 6; Sp. p. 698; Gaz. vol. 167; p. 119.
Baltezor, Andrew A., Aurora, Mo. Internal-combustion engine. No. 1,002,626; Sept. 5; Sp. p. 1003; Gaz. vol. 170; p. 149.
Balwick, Louis H., San Jose, Cal. Bicycle-lock. No. 981,359; Jan. 10; Sp. p. 2715; Gaz. vol. 162; p. 440.
Balzer, Fritz. (See Bartholomew and Balzer.)
Balzer, Stephen M., Andover, N. J. Trolley. No. 1,005,794; Oct. 17; Sp. p. 2673; Gaz. vol. 171; p. 490.
Bamanshaw, Tehemtan, Bombay, India. Key for regulating sluices, &c., affixed to water-pipes. No. 997,362; July 11; Sp. p. 1614; Gaz. vol. 168; p. 292.
Bamberger, Justin W., Berlin, Germany. Type-writer. No. 987,103; Mar. 21; Sp. p. 2799; Gaz. vol. 164; p. 515.
Bancroft, Charles N. (See White, Robert S., Jr., assignor.)
Bancroft, George J., Denver, Colo. Dam construction. No. 994,666; June 6; Sp. p. 1197; Gaz. vol. 167; p. 195.
Bancroft, George J., Denver, Colo. Pneumatic cushion for vehicles. No. 1,003,579; Sept. 19; Sp. p. 3047; Gaz. vol. 170; p. 549.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Automatic justifying means for pattern-controlled composing-machines. No. 980,902; Jan. 10; Sp. p. 1589; Gaz. vol. 162; p. 279.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Type-matrix-side-grooving machine. No. 980,903; Jan. 10; Sp. p. 1600; Gaz. vol. 162; p. 279.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Record-strip composing-machine. No. 980,904; Jan. 10; Sp. p. 1610; Gaz. vol. 162; p. 280.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Low-quad-mold-control mechanism. No. 989,553; Apr. 18; Sp. p. 2701; Gaz. vol. 165; p. 482.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Matrix-holder for type-casting machines. No. 989,554; Apr. 18; Sp. p. 2704; Gaz. vol. 165; p. 482.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Web-guiding attachment for perforating-machines. No. 989,555; Apr. 18; Sp. p. 2707; Gaz. vol. 165; p. 483.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Centering-pin adjustment for type-casting machines. No. 989,556; Apr. 18; Sp. p. 2711; Gaz. vol. 165; p. 483.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Multiplex composing-machine. No. 989,557; Apr. 18; Sp. p. 2713; Gaz. vol. 165; p. 484.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Matrix-marking machine. No. 1,018,302; Nov. 14; Sp. p. 1441; Gaz. vol. 172; p. 269.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Pattern or record-strip composing-machine. No. 1,008,303; Nov. 14; Sp. p. 1450; Gaz. vol. 172; p. 269.
Bancroft, John S., and M. C. Indahl, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Matrix-milling machine. No. 1,008,304; Nov. 14; Sp. p. 1464; Gaz. vol. 172; p. 270.
Bancroft, Joseph. (See Seidelinger, Robie, assignor.)
Bancroft, William T., and N. W. Van Liew, Kansas City, Mo. Sanitary drinking-fountain. No. 983,472; Feb. 7; Sp. p. 466; Gaz. vol. 163; p. 74.
Bander, Louis S., South Tacoma, Wash. Burglar-alarm. No. 986,671; Mar. 14; Sp. p. 1943; Gaz. vol. 164; p. 342.
Bandlow, Henry E., Chicago, Ill. Liquid-heater. No. 981,155; Jan. 10; Sp. p. 2233; Gaz. vol. 162; p. 369.
Bangs, Chester T., Kansas City, Mo., assignor to D. W. Henry, Mason City, Iowa. Driving-gearing for motor-vehicles. No. 992,104; May 9; Sp. p. 2668; Gaz. vol. 166; p. 475.
Banhart, Albert, Oberndorf-on-the-Neckar, Germany, assignor to J. Banhart, Hutchinson, Kans. Alarm-thermometer. No. 992,145; May 16; Sp. p. 2784; Gaz. vol. 166; p. 520.
Banhart, Julius. (See Banhart, Albert, assignor.)
Banker, Arthur L., Pittsburgh, Pa. Wind-shield. No. 1,005,135; Oct. 10; Sp. p. 1197; Gaz. vol. 171; p. 225.
Banker, Arthur L., Pittsburgh, Pa. Wind-shield. No. 1,005,136; Oct. 10; Sp. p. 1200; Gaz. vol. 171; p. 225.
Bankerd, Howard R., *et al.* (See Marchand, Alexis, assignor.)
Bankers Construction Company, The. (See Wheeler, Raymond O., assignor.)
Bankers Trust Company, trustee. (See Armstrong, Ralph W., assignor.)
Bankers Trust Company, trustee. (See Tiffany, George S., assignor.)
Bankó, György. (See Fürst and Bankó.)
Banks, Frederick R., Paterson, N. J. Gate-valve. No. 992,933; May 23; Sp. p. 4522; Gaz. vol. 166; p. 827.
Banks, James H., York, Nebr. Photograph-printograph. No. 1,008,105; Nov. 7; Sp. p. 984; Gaz. vol. 172; p. 158.
Banks, Owen, Plymouth, Ind. Mechanical movement. No. 1,009,127; Nov. 21; Sp. p. 3335; Gaz. vol. 172; p. 589.
Bankson, James B., Canton, S. D. Wire-fence stretcher. No. 988,065; Mar. 28; Sp. p. 4941; Gaz. vol. 164; p. 877.
Banner, John E., Mount Airy, N. C. Stage-firearm. No. 1,007,174; Oct. 31; Sp. p. 5789; Gaz. vol. 171; p. 1059.
Banner Manufacturing Co. (See Peters, Theodore, assignor.)
Bannihr, Caesar R., New York, N. Y. Implement for projecting an aerodart. No. 998,450; July 18; Sp. p. 4023; Gaz. vol. 168; p. 714.
Banning, Felix, and F. Kunkel, Düren-on-the-Rhine, Germany. Raising felt-press for paper-machines. No. 991,126; May 2; Sp. p. 633; Gaz. vol. 166; p. 108.
Banning, Frederick D., Dallas, Tex. Ink-well. No. 988,849; Apr. 4; Sp. p. 1182; Gaz. vol. 165; p. 188.
Banning, Walker, Chicago, Ill. Car-door-operating mechanism. No. 989,477; Apr. 11; Sp. p. 2501; Gaz. vol. 165; p. 423.
Bannister, Harry B. (See McLaughlin, Mills, and Bannister.)
Banovitch, Joseph, Cartersville, Va. Tile-molding apparatus. No. 996,555; June 27; Sp. p. 5387; Gaz. vol. 167; p. 943.
Banowetz, Mike, Coffeyville, Kans. Lawn-mower. No. 1,001,917; Aug. 29; Sp. p. 5828; Gaz. vol. 169; p. 1060.
Bansart, Louis, Johmont, near Haine St. Pierre, Belgium. Coke-oven. No. 987,941; Mar. 28; Sp. p. 4665; Gaz. vol. 164; p. 835.
Bänsch, Karl. (See Fitzner and Bänsch.)
Banta, Geddes C. (See Osburn, Orren E., assignor.)
Banta, Milton L., assignor of forty-nine one-hundredths to E. Davey and H. T. Opie, Detroit, Mich. Pay-as-you-enter car. No. 1,012,588; Dec. 26; Sp. p. 4858; Gaz. vol. 173; p. 875.
Banta, Thomas A., Jersey City, N. J. Clip or fastener for garments, binders, &c. No. 987,687; Mar. 28; Sp. p. 4071; Gaz. vol. 164; p. 748.
Barabe, Sidney M., Cochern, Ontario, Canada. Wrench. No. 998,271; July 18; Sp. p. 3641; Gaz. vol. 168; p. 650.
Barashick, Aaron, New York, N. Y. Draw-plate. No. 984,737; Feb. 21; Sp. p. 3229; Gaz. vol. 163; p. 571.
Barbas, John G., Detroit, Mich. Cooler for candy-coating. No. 1,007,767; Nov. 7; Sp. p. 256; Gaz. vol. 172; p. 41.
Barbaudy, Georges, Marseille, France. Supporting device for aviation. No. 994,968; June 13; Sp. p. 1928; Gaz. vol. 167; p. 338.
Barbe, Edgar. (See Guissart and Barbe.)
Barbé, Jean M., New York, N. Y. Valve for motors. No. 1,008,687; Nov. 14; Sp. p. 2399; Gaz. vol. 172; p. 405.
Barbee, Thomas M., Owensboro, Ky. Ventilator. No. 985,244; Feb. 28; Sp. p. 4310; Gaz. vol. 163; p. 779.
Barbee Wire & Iron Works. (See Rix, George K., assignor.)
Barbee Wire & Iron Works. (See Snyder, Frank M., assignor.)
Barber Asphalt Paving Company, The. (See Richardson, Clifford, assignor.)
Barber Colman Company. (See Colman and Peterson, assignors.)
Barber-Colman Company. (See Peterson, Burt A., assignor.)
Barber, Earl E. (See Grover and Barber.)
Barber, Efraim, Hartford, Conn. Time actuating device for gas-cocks or the like. No. 992,537; May 16; Sp. p. 3675; Gaz. vol. 166; p. 658.
Barber, Elmer, Philadelphia, Pa. Apparatus for lighting lamps. No. 983,113; Jan. 31; Sp. p. 6446; Gaz. vol. 162; p. 1120.
Barber, Ernest B., Brooklyn, N. Y., assignor to The Ontario Type Machine Company, Limited, Toronto, Canada. Machine for casting and composing type-bodies. No. 1,002,212; Sept. 5; Sp. p. 6; Gaz. vol. 170; p. 3.

Barber, Ernest B., Brooklyn, N. Y., assignor to The Ontario Type Machine Company Limited, Toronto, Canada. Type-metal pot. No. 1,011,718; Dec. 12; Sp. p. 2966; Gaz. vol. 173; p. 496.
Barber, Ernest B., New York, N. Y., assignor to The Ontario Type Machine Company Limited, Toronto, Canada. Type-casting machine. No. 1,011,558; Dec. 12; Sp. p. 2611; Gaz. vol. 173; p. 441.
Barber, Franklin L., and E. W. Webb, assignors to Standard Car Truck Company, Chicago, Ill. Brake-staff. No. 1,003,168; Sept. 12; Sp. p. 2166; Gaz. vol. 170; p. 372.
Barber, Harry C., assignor to New Haven Electric Mfg. Co., North Haven, Conn. Electrical fitting. No. 1,000,141; Aug. 8; Sp. p. 1962; Gaz. vol. 169; p. 353.
Barber, Henry F., Edison, Nebr. Beet-topping mechanism. No. 985,754; Feb. 28; Sp. p. 5436; Gaz. vol. 163; p. 953.
Barber, Hiram E., Stamford, Nebr. Self-heating soldering implement. No. 997,259; July 11; Sp. p. 1396; Gaz. vol. 168; p. 257.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet feeding and folding mechanism. No. 989,891; Apr. 18; Sp. p. 3419; Gaz. vol. 165; p. 597.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Offset mechanism for printing-machines. No. 991,818; May 9; Sp. p. 2129; Gaz. vol. 166; p. 379.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., and Stonington, Conn. Cutting and folding machine. No. 992,473; May 16; Sp. p. 3539; Gaz. vol. 166; p. 635.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Combined cover and center-page insert sheet feeding and folding mechanism. No. 992,474; May 16; Sp. p. 3545; Gaz. vol. 166; p. 636.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Inking mechanism for printing machinery. No. 992,475; May 16; Sp. p. 3549; Gaz. vol. 166; p. 636.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Variable-size-flat-sheet-delivery mechanism. No. 994,366; June 6; Sp. p. 551; Gaz. vol. 167; p. 94.
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Offset mechanism for printing-machines. No. 996,902; July 4; Sp. p. 632; Gaz. vol. 168; p. 103.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 980,739; Jan. 3; Sp. p. 1203; Gaz. vol. 162; p. 193.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Car-truck. No. 980,740; Jan. 3; Sp. p. 1206; Gaz. vol. 162; p. 193.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Roller-bearing. No. 987,422; Mar. 21; Sp. p. 3514; Gaz. vol. 164; p. 628.
Barber, John C., assignor to Standard Car Truck Company, Chicago, Ill. Side bearing for railway-cars. No. 1,007,768; Nov. 7; Sp. p. 257; Gaz. vol. 172; p. 42.
Barber, Johnson N., North Plainfield, assignor of one-sixth to E. W. Wilcox and one-sixth to T. A. Pope, Westfield, N. J. Adjustable door sill or saddle. No. 991,597; May 9; Sp. p. 1660; Gaz. vol. 166; p. 305.
Barber, Paul M., Aberdeen, S. D. Bed-spring. No. 991,930; May 9; Sp. p. 2355; Gaz. vol. 166; p. 418.
Barber, Raymond J., Belmont, and V. Durbin, Brookline, assignors to Globe Ear-Phone Company, Boston, Mass. Electric snap-switch. No. 1,003,391; Sept. 12; Sp. p. 2625; Gaz. vol. 170; p. 451.
Barber, Samuel A., Louisville, Ky. Combination steel and concrete cross-tie. No. 1,003,316; Sept. 12; Sp. p. 2477; Gaz. vol. 170; p. 427.
Barber, William H. (See Barber, William J., assignor.)
Barber, William J., assignor of three-eighths to W. H. Barber, Marietta, Ohio. Combined mop holder and wringer. No. 1,004,965; Oct. 3; Sp. p. 889; Gaz. vol. 171; p. 146.
Barber, William M., Somerville, Mass. Pulp-drying machine. No. 990,950; May 2; Sp. p. 262; Gaz. vol. 166; p. 46.
Barber, William M., Phenix, R. I., assignor to Draper Company, Hopedale, Mass. Picker-check for looms. No. 981,050; Jan. 10; Sp. p. 2006; Gaz. vol. 162; p. 331.
Barbey, Francis A., *et al.* (See McManama, John W., assignor.)
Barbezat, Alfred, Enghien-les-Bains, France. Steam-turbine. No. 995,517; June 20; Sp. p. 3100; Gaz. vol. 167; p. 551.
Barbier, André. (See Koetschet and Barbier.)
Barbour, George H., Pittsburgh, Pa. Metal gangway-support for mines. No. 1,009,628; Nov. 21; Sp. p. 4433; Gaz. vol. 172; p. 764.
Barbour, John E., Paterson, N. J. Adjustable tension for bobbins for spinning or twisting frames. No. 1,004,342; Sept. 26; Sp. p. 4742; Gaz. vol. 170; p. 838.
Barbour, Ralph H., Tiltwood, England. Flexible electrical brush or collector. No. 990,951; May 2; Sp. p. 269; Gaz. vol. 166; p. 46.
Barbour-Stockwell Co. (See Burnham, John A., Jr., assignor.)
Barbour-Stockwell Company. (See Ellis, Frank H., assignor.)
Barbour, Wolsey R., Terre Haute, Ind. Vehicle-tire. No. 1,001,237; Aug. 22; Sp. p. 4388; Gaz. vol. 169; p. 798.
Barbow, Joseph, Portland, Oreg. Surveying instrument. No. 991,598; May 9; Sp. p. 1662; Gaz. vol. 166; p. 306.
Barbow, Joseph, Portland, Oreg. Surveying and cruising instrument. No. 994,901; June 13; Sp. p. 1791; Gaz. vol. 167; p. 315.
Barbrake, John A., Canton, Ohio, assignor to The Seng Company, Chicago, Ill. Pedestal-extension-table lock. No. 1,001,803; Aug. 29; Sp. p. 5567; Gaz. vol. 169; p. 1021.
Barby, Ferdinand, Paris, France. Suction apparatus. No. 982,923; Jan. 31; Sp. p. 6033; Gaz. vol. 162; p. 1056.
Barcalo, Edward J. (See Rogers, Frank R., assignor.)
Barcalo Manufacturing Company. (See Vallone, Charles, assignor.)
Barclay, Alexander. (See Houser, Winfield S., assignor.)
Barclay, Homer R. (See Barclay, John W. and H. R.)
Barclay, John C., Montclair, N. J. Wire-stretcher. No. 1,004,724; Oct. 3; Sp. p. 386; Gaz. vol. 171; p. 64.
Barclay, John C., Montclair, N. J. Wire-stretcher. No. 1,004,725; Oct. 3; Sp. p. 388; Gaz. vol. 171; p. 65.
Barclay, John W. and H. R., Covel, Ill. Gearing. No. 1,012,119; Dec. 19; Sp. p. 3887; Gaz. vol. 173; p. 672.
Barclay, William P., Chicago, Ill. Vertical boiler. No. 1,009,275; Nov. 21; Sp. p. 3695; Gaz. vol. 172; p. 643.
Barclay, William P., assignor to W. D. Kane, Chicago, Ill. Rotary explosive-engine. No. 1,012,051; Dec. 19; Sp. p. 3729; Gaz. vol. 173; p. 648.
Barclay, William R., and J. Gouldbourn, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Machine for attaching heels. No. 1,011,308; Dec. 12; Sp. p. 2055; Gaz. vol. 173; p. 352.
Barcley Corset Company, The. (See Burbank, Charles H., assignor.)
Bard, Charles T., Norwich, Conn. Gas-meter. No. 980,395; Jan. 3; Sp. p. 443; Gaz. vol. 162; p. 77.
Barden, Francis S., Salida, Colo. Blind-iron. No. 994,561; June 6; Sp. p. 957; Gaz. vol. 167; p. 158.
Bardill, John O., Herculaneum, Mo. Carbureter. No. 1,009,629; Nov. 21; Sp. p. 4434; Gaz. vol. 172; p. 764.
Bardon, Clarence, Anaconda, Mont. Safety drill-tap and die-holder. No. 1,005,500; Oct. 10; Sp. p. 2027; Gaz. vol. 171; p. 356.
Bardon, John J., assignor of one-half to F. Moxey, Philadelphia, Pa. Hose-bridge. No. 982,924; Jan. 31; Sp. p. 6034; Gaz. vol. 162; p. 1056.
Bardsley, Willard W. (See Cavanagh and Bardsley.)
Bardwell, Arthur F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combined door check and closer. No. 999,542; Aug. 1; Sp. p. 694; Gaz. vol. 169; p. 119.
Bare, Paul, Pricedale, Pa. Switch for railways. No. 1,009,012; Nov. 14; Sp. p. 3089; Gaz. vol. 172; p. 514.
Barenz, William F. (See Heger, George, assignor.)
Barg, Oswald C., Salt Lake City, Utah. Bicycle-horn. No. 1,009,885; Nov. 28; Sp. p. 4967; Gaz. vol. 172; p. 897.
Bargalló, Marcelino, Barcelona, Spain. Coffee-making apparatus. No. 1,003,317; Sept. 12; Sp. p. 2479; Gaz. vol. 170; p. 427.
Barganier, Joe S., Fort Deposit, Ala. Cotton-dropper attachment. No. 1,007,261; Oct. 31; Sp. p. 5972; Gaz. vol. 171; p. 1090.
Barger, Henry W., Toledo, Ill. Combination power and steering knuckle. No. 982,117; Jan. 17; Sp. p. 4327; Gaz. vol. 162; p. 722.
Barhoff, Fred W., Hartford, Conn. Pulp-press. No. 982,925; Jan. 31; Sp. p. 6035; Gaz. vol. 162; p. 1056.
Bariquand, Jules, Paris, France. Limit-gage for screws. No. 987,942; Mar. 28; Sp. p. 4667; Gaz. vol. 164; p. 836.
Barker, Arthur H., Beckenham, England. Apparatus for feeding water to steam-boilers. No. 998,068; July 18; Sp. p. 3183; Gaz. vol. 168; p. 578.
Barker, Benjamin, Ann Arbor, Mich. Safety-pin. No. 996,046; June 27; Sp. p. 4246; Gaz. vol. 167; p. 772.
Barker, England J. and M. J., Morgan Park, and F. B. La Barr, Chicago, Ill.; said M. J. Barker and F. B. La Barr assignors to said England J. Barker. Printing-press. No. 992,146; May 16; Sp. p. 2787; Gaz. vol. 166; p. 521.
Barker, Ernest M., St. Leonards-on-Sea, England. Carbureter. No. 981,156; Jan. 10; Sp. p. 2235; Gaz. vol. 162; p. 369.
Barker, Frederic R., Boston, Mass. Demountable rim. No. 1,004,966; Oct. 3; Sp. p. 890; Gaz. vol. 171; p. 147.
Barker, Frederic R., Boston, and J. Greenwood, Walpole, Mass. Divisible rim. No. 994,237; June 6; Sp. p. 283; Gaz. vol. 167; p. 48.
Barker, Gerald, Westminster, London, England. Resilient wheel for vehicles. No. 990,184; Apr. 18; Sp. p. 4048; Gaz. vol. 165; p. 696.
Barker, Herbert, J. Dean, P. Grandage, and L. Jackson, Manningham, Bradford, England. Machine for folding fabric. No. 1,001,604; Aug. 29; Sp. p. 5132; Gaz. vol. 169; p. 952.

Alphabetical list of patentees—Continued.

Barker, James, Philadelphia, Pa. Molding-machine. No. 988,922; Apr. 4; Sp. p. 1318; Gaz. vol. 165; p. 212.
Barker, John C., Leeds, England. Pneumatic tire. No. 1,004,343; Sept. 26; Sp. p. 4743; Gaz. vol. 170; p. 839.
Barker, John C., Leeds, England. Outer cover of pneumatic tires. No. 1,004,344; Sept. 26; Sp. p. 4744; Gaz. vol. 170; p. 839.
Barker, Matthew J. (See Barker and La Barr.)
Barker, Percy E., Buffalo, N. Y., assignor to B. F. Stephenson, Detroit, Mich. Vehicle cushioning device. No. 993,287; May 23; Sp. p. 5245; Gaz. vol. 166; p. 941.
Barker, Philetis T., Imboden, Va. Wrench. No. 1,001,605; Aug. 29; Sp. p. 5133; Gaz. vol. 169; p. 952.
Barker, Robert W., Paterson, N. J. Winding-machine. No. 981,520; Jan. 10; Sp. p. 3040; Gaz. vol. 162; p. 495.
Barker, Thomas. (See Hoyle and Barker.)
Barker, Walter S., Cambridge, Mass. Storm-coat. No. 984,180; Feb. 14; Sp. p. 2000; Gaz. vol. 163; p. 343.
Barker, Walter S., Cambridge, Mass. Storm-coat. No. 984,181; Feb. 14; Sp. p. 2002; Gaz. vol. 163; p. 344.
Barker, Walter S., Cambridge, Mass. Garment-pocket. No. 1,004,967; Oct. 3; Sp. p. 892; Gaz. vol. 171; p. 147.
Barker, Wendell A., Chicago, Ill. Friction-brake mechanism. No. 983,668; Feb. 7; Sp. p. 892; Gaz. vol. 163; p. 142.
Barker, William M. (See Perkins and Barker.)
Barker, William M., McGill, Nev., assignor of one-half to H. A. Guess, Flat River, Mo. Filtering-machine. No. 1,012,794; Dec. 26; Sp. p. 5326; Gaz. vol. 173; p. 948.
Barler, Richard O., Chicago, Ill. Sounding toy. No. 986,892; Mar. 14; Sp. p. 2423; Gaz. vol. 164; p. 418.
Barlow, Alfred J., Tottenham, assignor of two-thirds to Electromotor Equipment Company Limited, London, England. Motor-controlled switch. No. 980,475; Jan. 3; Sp. p. 638; Gaz. vol. 162; p. 105.
Barlow, Harry, Seattle, Wash. Elevator for marine vessels. No. 1,006,044; Oct. 17; Sp. p. 3236; Gaz. vol. 171; p. 579.
Barlow, Jake, assignor to The Automatic Specialty Company, Kansas City, Mo. Apparatus for printing roll-paper. No. 994,099; May 30; Sp. p. 0985; Gaz. vol. 166; p. 1253.
Barlow, John B., Grand Rapids, Mich. Loose-leaf binder. No. 1,000,360; Aug. 15; Sp. p. 2434; Gaz. vol. 169; p. 458.
Barlow, Wesley, assignor of one-half to E. Hawkins, Greentown, Ind. Liquid-jacket. No. 981,238; Jan. 10; Sp. p. 2456; Gaz. vol. 162; p. 398.
Barlow, Wilfrid, Lawrence, Mass. Smoke-bell bracket for chandeliers. No. 1,002,799; Sept. 5; Sp. p. 1363; Gaz. vol. 170; p. 207.
Barmettler, Florentin, San Francisco, Cal. Airship. No. 989,319; Apr. 11; Sp. p. 2185; Gaz. vol. 165; p. 371.
Barmore, Charles, Jr., Paterson, N. J., assignor to The Improved Equipment Company, New York, N. Y. Operating gas-producers. No. 1,012,120; Dec. 19; Sp. p. 3889; Gaz. vol. 173; p. 673.
Barna, Joseph W., Chicago, Ill. Machine for marking shoe-uppers. No. 1,012,052; Dec. 19; Sp. p. 3730; Gaz. vol. 173; p. 648.
Barnabé, Luigi V., London, England. Turbine. No. 1,008,106; Nov. 7; Sp. p. 988; Gaz. vol. 172; p. 159.
Barnard, Charles S. (See Bassick and Barnard.)
Barnard, Davis, assignor to Barnard Specialty Company, Los Angeles, Cal. Combination pressure-gage and pump connection for pneumatic tires. No. 986,672; Mar. 14; Sp. p. 1944; Gaz. vol. 164; p. 343.
Barnard, George W., Economy, Ind. Manure-spreader. No. 993,640; May 30; Sp. p. 6036; Gaz. vol. 166; p. 1097.
Barnard, James W., Morgantown, W. Va. Hat-pin protector and fastener. No. 987,533; Mar. 21; Sp. p. 3721; Gaz. vol. 164; p. 665.
Barnard, Jerome W., assignor of one-half to G. C. Schluer, Joseph, Oreg. Revolving fish-screen. No. 1,007,630; Oct. 31; Sp. p. 6770; Gaz. vol. 171; p. 1217.
Barnard and Leas Manufacturing Company, The. (See Cornwall, John B., assignor.)
Barnard Specialty Company. (See Barnard, Davis, assignor.)
Barnard, Therides V., Schaller, Iowa. Soil pulverizer and leveler. No. 985,497; Feb. 28; Sp. p. 4872; Gaz. vol. 163; p. 865.
Barnard, Thomas, assignor to The Eastman Machine Company, Limited, Toronto, Ontario, Canada. Controlling device for electric motors. No. 1,002,484; Sept. 5; Sp. p. 687; Gaz. vol. 170; p. 100.
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 982,701; Jan. 24; Sp. p. 5531; Gaz. vol. 162; p. 952.
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 990,797; Apr. 25; Sp. p. 5460; Gaz. vol. 165; p. 940.
Barnard, Walter E., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,007,839; Nov. 7; Sp. p. 446; Gaz. vol. 172; p. 67.
Barnard, William E., New York, N. Y. Non-refillable bottle. No. 984,642; Feb. 21; Sp. p. 3031; Gaz. vol. 163; p. 536.
Barnes, Adolphus F. (See Swanger, Charles H., assignor.)
Barnes, Albert A., Vancouver, Wash. Wagon-brake. No. 998,829; July 25; Sp. p. 4862; Gaz. vol. 168; p. 878.
Barnes, Alfred A., assignor of one-half to A. L. Pierce, Hillyard, Wash. Extension-ladder. No. 995,396; June 13; Sp. p. 2826; Gaz. vol. 167; p. 480.
Barnes, Bayard. (See Kobert, Frank P., assignor.)
Barnes, Benjamin, Aston, South Melbourne, Victoria, Australia. Gearing. No. 1,004,525; Sept. 26; Sp. p. 5118; Gaz. vol. 170; p. 901.
Barnes, Charles J., assignor of one-half to J. H. Hopkins, Hopkins, Va. Vine-cutter. No. 989,224; Apr. 11; Sp. p. 1962; Gaz. vol. 165; p. 338.
Barnes, Cleo, Melrose, Iowa. Oil-pump. No. 991,931; May 9; Sp. p. 2357; Gaz. vol. 166; p. 418.
Barnes, Edward W., *et al.* (See Gröndahl, Wilhelm A., assignor.)
Barnes, Edwin, Sheffield, England. Spectacle-temple. No. 1,001,238; Aug. 22; Sp. p. 4389; Gaz. vol. 169; p. 798.
Barnes, Eugene L., Detroit, Mich. Underground steam-distributing system. No. 997,434; July 11; Sp. p. 1738; Gaz. vol. 168; p. 315.
Barnes, Frederick W., assignor to Eastman Kodak Co., Rochester, N. Y. Tripod. No. 1,007,322; Oct. 31; Sp. p. 6101; Gaz. vol. 171; p. 1111.
Barnes, Frederick W., assignor to Eastman Kodak Co., Rochester, N. Y. Tripod. No. 1,009,374; Nov. 21; Sp. p. 3921; Gaz. vol. 172; p. 679.
Barnes, George A., assignor to J. L. Bradley and B. W. Farnham, New Haven, Conn. Nail-puller. No. 1,004,842; Oct. 3; Sp. p. 642; Gaz. vol. 171; p. 104.
Barnes, George D., Jr., Memphis, Tenn. Combined conveyer and inspection-table. No. 1,006,455; Oct. 24; Sp. p. 4171; Gaz. vol. 171; p. 753.
Barnes, H. C. (See Merrill, Augustus A., assignor.)
Barnes, Harry D., Bradley Beach, N. J. Automobile-fender. No. 1,002,114; Aug. 29; Sp. p. 6211; Gaz. vol. 169; p. 1123.
Barnes, Henry T., Florisant, Mo. Mowing-machine. No. 1,005,125; Oct. 10; Sp. p. 1179; Gaz. vol. 171; p. 222.
Barnes, Jabez, Birmingham, England. Darning-machine. No. 1,010,112; Nov. 28; Sp. p. 5438; Gaz. vol. 172; p. 975.
Barnes, James B., Clifton Springs, N. Y. Sprayer. No. 1,003,688; Sept. 19; Sp. p. 3289; Gaz. vol. 170; p. 589.
Barnes, John, Rockford, Ill. Speed-transmission mechanism. No. 983,016; Jan. 31; Sp. p. 6247; Gaz. vol. 162; p. 1087.
Barnes, John R., Jr., Oskaloosa, assignor of one-half to R. M. Young, Des Moines, Iowa. Umbrella-locking device. No. 988,240; Mar. 28; Sp. p. 5268; Gaz. vol. 164; p. 935.
Barnes, John S., assignor to W. F. and John Barnes Company, Rockford, Ill. Variable-speed gearing. No. 998,227; July 18; Sp. p. 3533; Gaz. vol. 168; p. 634.
Barnes, Joshua B., Fort Wayne, Ind. Vehicle-wheel tire. No. 998,668; July 25; Sp. p. 4508; Gaz. vol. 168; p. 822.
Barnes Manufacturing Company, The. (See Barnes, Thomas R., assignor.)
Barnes, Peter B., Floresville, Tex. Cotton-gin breast. No. 996,826; July 4; Sp. p. 462; Gaz. vol. 168; p. 76.
Barnes, Pierre, assignor to International Monorail Co., Seattle, Wash. Monorail-car. No. 1,004,135; Sept. 26; Sp. p. 4330; Gaz. vol. 170; p. 769.
Barnes, Ruby A., Baltimore, Md. Ice-cap. No. 1,002,021; Aug. 29; Sp. p. 6045; Gaz. vol. 169; p. 1093.
Barnes, Thomas H., Crawfordsville, Iowa. Milk-bucket. No. 983,473; Feb. 7; Sp. p. 467; Gaz. vol. 163; p. 74.
Barnes, Thomas R., assignor to The Barnes Manufacturing Company, Mansfield, Ohio. Pump-shelf. No. 1,006,994; Oct. 24; Sp. p. 5364; Gaz. vol. 171; p. 941.
Barnes, Walter E., Malden, Mass. Valve. No. 980,585; Jan. 3; Sp. p. 885; Gaz. vol. 162; p. 142.
Barnes, William E., New York, N. Y. Wire garment-stay. No. 985,124; Feb. 28; Sp. p. 3995; Gaz. col. 163; p. 736.
Barnes, William O., Quebec, Quebec, Canada. Bayonet-joint. No. 1,002,115; Aug. 29; Sp. p. 6212; Gaz. vol. 169; p. 1123.
Barnett, Allen R. (See Logan and Barnett.)
Barnett, Arthur R., Portland, Oreg. Adjustable support for beds. No. 1,008,107; Nov. 7; Sp. p. 990; Gaz. vol. 172; p. 159.
Barnett, Arthur R., Portland, Oreg., assignor to Universal Bed and Hospital Supply Company. Adjustable reclining spring-frame. No. 987,423; Mar. 21; Sp. p. 3515; Gaz. vol. 164; p. 628.
Barnett, Arthur R., assignor to Universal Bed and Hospital Supply Company, Portland, Oreg. Adjustable support. No. 1,003,865; Sept. 19; Sp. p. 3641; Gaz. vol. 170; p. 647.
Barnett, Charles C. (See Katz and Barnett.)
Barnett, George W., Chicago, Ill. Card-holder. No. 980,396; Jan. 3; Sp. p. 444; Gaz. vol. 162; p. 77.
Barnett, Henry C., Jefferson, Ga. Road-scraper. No. 998,228; July 18; Sp. p. 3533; Gaz. vol. 168; p. 635.
Barnett, Jackson T., Columbiana, Ala. Buggy-body. No. 1,003,689; Sept. 19; Sp. p. 3291; Gaz. vol. 170; p. 589.
Barnett, John M., Oskaloosa, Iowa. Armor for tires. No. 994,969; June 13; Sp. p. 1930; Gaz. vol. 167; p. 339.

Alphabetical list of patentees—Continued.

Barnett, John S., Central Point, Oreg. Fruit-picker's receptacle. No. 988,163; Mar. 28; Sp. p. 5125; Gaz. vol. 164; p. 909.
Barnett, Otto R. (See Clawson, Charles F., assignor.)
Barnett, Otto R. (See Hanson, Louis, assignor.)
Barnett, Otto R. (See Scott, John M., assignor.)
Barnett, Otto R. (See Smith, Edgar M., assignor.)
Barnett, Otto R. (See Sponenburg, Hiram H., assignor.)
Barnett, Otto R. (See Truman, Percival H., assignor.)
Barnett, Wheeler, Knoxville, Tenn. Antispreader. No. 985,881; Sp. p. 258; Gaz. vol. 164; p. 42.
Barnett, Wheeler, Knoxville, Tenn. Rail-joint. No. 985,882; Mar. 7; Sp. p. 259; Gaz. vol. 164; p. 43.
Barney, Edwin E., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,003,084; Sept. 12; Sp. p. 1973; Gaz. vol. 170; p. 342.
Barney, Edwin E., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,007,840; Nov. 7; Sp. p. 448; Gaz. vol. 172; p. 67.
Barney, Everett H., Springfield, Mass. Life-saving sled. No. 981,360; Jan. 10; Sp. p. 2717; Gaz. vol. 162; p. 441.
Barney, Frank P., Chartley, assignor to Winthrop Manufacturing Company, Attleboro, Mass. Link cuff-button. No. 991,819; May 9; Sp. p. 2132; Gaz. vol. 166; p. 380.
Barney, Frank P., Chartley, assignor to J. H. and W. L. Tidd, Taunton, Mass. Collar-button. No. 997,948; July 18; Sp. p. 2915; Gaz. vol. 168; p. 535.
Barney, Louis D., Chicago, Ill. Lawn-sprinkling system. No. 1,004,726; Oct. 3; Sp. p. 390; Gaz. vol. 171; p. 65.
Barnhart Brothers and Spindler. (See Gaunt, Sidney C., assignor.)
Barnhart, Clarence L., New York, N. Y. Power-register. No. 1,000,885; Aug. 15; Sp. p. 3594; Gaz. vol. 169; p. 646.
Barnhart, Harry J. (See King, Barnhart, and King.)
Barnhart, Harry J., and H. T. Gracely, assignors to The Marion Steam Shovel Company, Marion, Ohio. Float for dredges. No. 1,010,568; Dec. 5; Sp. p. 372; Gaz. vol. 173; p. 59.
Barnhart, Henry B. (See Maltitz and Barnhart.)
Barnhart, Ulysses S. G. (See Uhl and Barnhart.)
Barnhart, William. (See Coyne and Barnhart.)
Barnhill, Edward B. (See Waller and Barnhill.)
Barnhill, Edward B., assignor to Diamond Power Specialty Company, Detroit, Mich. Blower for boilers. No. 982,459; Jan. 24; Sp. p. 5060; Gaz. vol. 162; p. 873.
Barns, Alfred L., Beaver Falls, Pa. Spike. No. 983,856; Feb. 7; Sp. p. 1284; Gaz. vol. 163; p. 205.
Barnum, Dana D., assignor to P. L. Rider, Worcester, Mass. Respirator. No. 1,000,706; Aug. 15; Sp. p. 3222; Gaz. vol. 169; p. 582.
Barnum, Edwards W., assignor to E. A. Mallory and Sons, Incorporated, Danbury, Conn. Hat-body-clipping machine. No. 982,926; Jan. 31; Sp. p. 6037; Gaz. vol. 162; p. 1057.
Barnum, Morgan K. (See Lavis, William K., assignor.)
Barnum, Thomas E., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Self-starter. No. 989,687; Apr. 18; Sp. p. 2993; Gaz. vol. 165; p. 527.
Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 990,512; Apr. 25; Sp. p. 4846; Gaz. vol. 165; p. 845.
Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. System of control for electric motors. No. 991,189; May 2; Sp. p. 769; Gaz. vol. 166; p. 131.
Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 991,190; May 2; Sp. p. 776; Gaz. vol. 166; p. 131.
Barnum, Thomas E., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Motive-power-controlling device. No. 993,814; May 30; Sp. p. 6423; Gaz. vol. 166; p. 1158.
Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 999,947; Aug. 8; Sp. p. 1510; Gaz. vol. 169; p. 286.
Barnwell, Clyde J. (See Naramore and Barnwell.)
Barnwell, Harry T., Providence, R. I. Support for curtain and drapery rods. No. 1,009,375; Nov. 21; Sp. p. 3922; Gaz. vol. 172; p. 680.
Baron, Charles S., and J. F. Haffey, Tiffin, Ohio. Receptacle. No. 981,239; Jan. 10; Sp. p. 2457; Gaz. vol. 162; p. 399.
Barr, Albert D., Batesville, Ark. Medicament and producing the same. No. 1,005,137; Oct. 10; Sp. p. 1201; Gaz. vol. 171; p. 226.
Barr, Archibald, and W. Stroud, Anniesland, Glasgow, Scotland. Collector-brush for torsionmeters. No. 998,272; July 18; Sp. p. 3642; Gaz. vol. 168; p. 651.
Barr, Archibald, Glasgow, Scotland, and W. Stroud, Leeds, England. Electrical apparatus for transmitting and receiving signals. No. 1,009,013; Nov. 14; Sp. p. 3090; Gaz. vol. 172; p. 514.
Barr, Arthur C. (See Berg, Alfred J., assignor.)
Barr, Charles A., Ludlowville, N. Y. Car-brake. No. 987,534; Mar. 21; Sp. p. 3722; Gaz. vol. 164; p. 665.
Barr, Charles F., and W. R. Miller, Winchester, Va. Photograph-printing device. No. 983,801; Feb. 7; Sp. p. 1158; Gaz. vol. 163; p. 185.
Barr, Daniel M., Philadelphia, Pa. Sash-lock. No. 982,783; Jan. 31; Sp. p. 5720; Gaz. vol. 162; p. 1009.
Barr, Frederic, New York, N. Y. Pull-socket for electric switches. (Reissue.) No. 13,301; Oct. 31; Sp. p. 6829; Gaz. vol. 171; p. 1228.
Barr, George, assignor of one-half to B. F. Anderson, La Center, Wash. Automatic railway-gate. No. 986,428; Mar. 14; Sp. p. 1426; Gaz. vol. 164; p. 258.
Barr, Harry E., Erie, Pa. Air-compressor. No. 1,008,519; Nov. 14; Sp. p. 2019; Gaz. vol. 172; p. 345.
Barr, John, Chicago, Ill. Razor. No. 981,739; Jan. 17; Sp. p. 3485; Gaz. vol. 162; p. 590.
Barr, John H., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,000,361; Aug. 15; Sp. p. 2435; Gaz. vol. 169; p. 458.
Barr, John M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Magnetizable wedge for dynamo-electric machines. No. 984,182; Feb. 14; Sp. p. 2003; Gaz. vol. 163; p. 344.
Barr, Wilson, Hamilton, Ontario, Canada. Automatic check printing and recording machine. No. 983,802; Feb. 7; Sp. p. 1160; Gaz. vol. 163; p. 186.
Barr, Wilson, Hamilton, Ontario, Canada. Account-ledger. No. 985,102; Feb. 21; Sp. p. 3933; Gaz. vol. 163; p. 695.
Barr, Wilson, Jr., Hamilton, Ontario, Canada. Account-file. No. 996,197; June 27; Sp. p. 4619; Gaz. vol. 167; p. 823.
Barr, Wilson, Jr., Hamilton, Ontario, Canada. Account-file. No. 1,002,485; Sept. 5; Sp. p. 692; Gaz. vol. 170; p. 101.
Barr, Wilson, Jr., Hamilton, Ontario, Canada. Account-file. No. 1,005,777; Oct. 10; Sp. p. 2633; Gaz. vol. 171; p. 454.
Barrack, Lewis A., Chicago, Ill. Photographic developing apparatus. No. 996,198; June 27; Sp. p. 4621; Gaz. vol. 167; p. 824.
Barratt, William T., assignor, by mesne assignments, to A. and A. J. Cooper and C. S. Kehoe, Bennington, Vt., executors of C. Cooper, deceased. Knitting string-work fabric. No. 999,734; Aug. 8; Sp. p. 1077; Gaz. vol. 169; p. 214.
Barratt, William T., assignor, by mesne assignments, to A. and A. J. Cooper and C. S. Kehoe, Bennington, Vt., executors of C. Cooper, deceased. Stop-motion for knitting-machines. No. 1,000,362; Aug. 15; Sp. p. 2442; Gaz. vol. 169; p. 459.
Barratt, William T., assignor, by mesne assignments, to A. and A. J. Cooper and C. S. Kehoe, Bennington, Vt., executors of Charles Cooper, deceased. Circular-knitting machine. No. 1,003,085; Sept. 12; Sp. p. 1976; Gaz. vol. 170; p. 342.
Barrel Holding and Manufacturing Company. (See Martin, Thomas C., assignor.)
Barrelle, Marie A. L., North Reading, Mass. Hat-pin guard. No. 992,934; May 23; Sp. p. 4523; Gaz. vol. 166; p. 827.
Barrelle, Marie A. L., North Reading, and A. R. Logan, Chelmsford, Mass. Bed-pan cushion. No. 995,692; June 20; Sp. p. 3483; Gaz. vol. 167; p. 614.
Barrenquy, Pablo L., El Salto de Agua, Mexico. Tapping-knife for rubber-trees. No. 991,127; May 2; Sp. p. 634; Gaz. vol. 166; p. 108.
Barrett Adding Machine Co. (See Barrett, Glenn J., assignor.)
Barrett, Albert, and W. Condon, Kansas City, Mo. Anti-induction apparatus for telephone systems. No. 984,738; Feb. 21; Sp. p. 3230; Gaz. vol. 163; p. 572.
Barrett, Albert N., Weed, N. Mex. Pail attachment. No. 1,006,623; Oct. 24; Sp. p. 4569; Gaz. vol. 171; p. 814.
Barrett, Charles F. (See Baxter and Barrett.)
Barrett, Edward E., La Grange, Ill. Loading and unloading apparatus. No. 990,952; May 2; Sp. p. 269; Gaz. vol. 166; p. 46.
Barrett, Edward S. and M. E., South Weymouth, Mass. Sink-shield. No. 998,149; July 18; Sp. p. 3361; Gaz. vol. 168; p. 606.
Barrett, Glenn J., assignor to Barrett Adding Machine Co., Grand Rapids, Mich. Transfer mechanism for adding-machines. No. 994,238; June 6; Sp. p. 286; Gaz. vol. 167; p. 49.
Barrett, Glenn J., assignor to Barrett Adding Machine Co., Grand Rapids, Mich. Actuating device for key-set calculating-machines. No. 1,000,363; Aug. 15; Sp. p. 2448; Gaz. vol. 169; p. 459.
Barrett, Glenn J., assignor, by mesne assignments, to Barrett Adding Machine Co., Grand Rapids, Mich. Key-set calculating-machine. No. 1,003,086; Sept. 12; Sp. p. 1993; Gaz. vol. 170; p. 343.
Barrett, Glenn J., assignor to Barrett Adding Machine Company, Grand Rapids, Mich. Rotary retarding mechanism for adding-machines and like devices. No. 1,003,414; Sept. 19; Sp. p. 2667; Gaz. vol. 170; p. 491.
Barrett, Glenn J., Grand Rapids, Mich., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,011,719; Dec. 12; Sp. p. 2968; Gaz. vol. 173; p. 497.
Barrett, Glenn J., Grand Rapids, Mich., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,011,720; Dec. 12; Sp. p. 2974; Gaz. vol. 173; p. 497.

Alphabetical list of patentees—Continued.

Barrett, Glenn J., Grand Rapids, Mich., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,011,721; Dec. 12; Sp. p. 2981; Gaz. vol. 173; p. 498.
Barrett, Glenn J., Grand Rapids, Mich., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,011,722; Dec. 12; Sp. p. 2986; Gaz. vol. 173; p. 498.
Barrett, Harvey N. (See Newberry and Barrett.)
Barrett, Julious E., Pollock, assignor of nine one-hundredths to J. R. Hunter, Alexandria, ten one-hundredths to J. W. Wilson, fifteen one-hundredths to C. U. Robinson, fifteen one-hundredths to G. A. Foster, twenty-six one-hundredths to F. O. Maxwell, Pollock, and fifteen one-hundredths to E. Nolan, Alexandria, La. Fire-alarm. No. 989,107; Apr. 11; Sp. p. 1715; Gaz. vol. 165; p. 298.
Barrett Manufacturing Company. (See Olmsted, Henry, Jr., assignor.)
Barrett, May E. (See Barrett, Edward S. and M. E.)
Barrett, Thomas A., assignor of twenty-four one-hundredths to C. A. McDade and twenty-five one-hundredths to H. L. Werminghaus, Wilkes-Barre, Pa. Cut-off valve for gas-jets. No. 981,606; Jan. 17; Sp. p. 3219; Gaz. vol. 162; p. 546.
Barrett, William, assignor to Cheney Brothers, Manchester, Conn. Machine for forming paper packages. No. 981,607; Jan. 17; Sp. p. 3221; Gaz. vol. 162; p. 547.
Barrett, Winfield S., and H. C. Bostian, assignors of one-third to B. Galbraith, Milton, Pa. Rail-fastening. No. 992,701; May 16; Sp. p. 4000; Gaz. vol. 166; p. 714.
Barrickman, Harry L., assignor to J. S. Johnson, Richwood, W. Va. Rod-coupling. No. 1,003,973; Sept. 26; Sp. p. 3917; Gaz. vol. 170; p. 712.
Barrie, Robert C., Philadelphia, Pa. Amusement appliance. No. 992,731; May 16; Sp. p. 4060; Gaz. vol. 166; p. 725.
Barrientos, Vincente R., Mambajao, Philippine Islands. Hemp-stripping machine. No. 983,867; Feb. 14; Sp. p. 1334; Gaz. vol. 163; p. 239.
Barriere, Maurice E. (See Robinson, Rupert C., assignor.)
Barringer, Lawrence E., Schenectady, N. Y., assignor to General Electric Company. Insulating material for embedding electrical conductors. No. 1,009,035; Nov. 21; Sp. p. 3144; Gaz. vol. 172; p. 558.
Barringer, Lawrence E., Schenectady, N. Y., assignor to General Electric Company. Insulating compound. No. 1,009,630; Nov. 21; Sp. p. 4437; Gaz. vol. 172; p. 764.
Barringer, Paul B., Blacksburg, Va. Fire alarm and extinguisher. No. 1,000,978; Aug. 22; Sp. p. 3810; Gaz. vol. 169; p. 710.
Barron, Charles A., Snohomish, assignor, by mesne assignments, to Current Motor Company, Tacoma, Wash. Current-motor. No. 995,419; June 13; Sp. p. 2877; Gaz. vol. 167; p. 488.
Barron, Walter J., New York, assignor, by mesne assignments, to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 997,892; July 11; Sp. p. 2763; Gaz. vol. 168; p. 473.
Barron, Walter J., New York, assignor, by mesne assignments, to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 998,946; July 25; Sp. p. 5157; Gaz. vol. 168; p. 921.
Barron, Walter J., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,003,415; Sept. 19; Sp. p. 2670; Gaz. vol. 170; p. 492.
Barron, Walter J., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,003,580; Sept. 19; Sp. p. 3049; Gaz. vol. 170; p. 550.
Barron, Walter J., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,003,972; Sept. 26; Sp. p. 3913; Gaz. vol. 170; p. 711.
Barron, Walter J., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,003,974; Sept. 26; Sp. p. 3918; Gaz. vol. 170; p. 712.
Barron, William L., New York, N. Y., assignor to The Singer Manufacturing Company. Button-sewing machine. No. 998,595; July 25; Sp. p. 4338; Gaz. vol. 168; p. 795.
Barrow, Alfred F., New Haven, Ind. Windmill. No. 985,498; Feb. 28; Sp. p. 4875; Gaz. vol. 163; p. 865.
Barrow, Fred. (See Mueller, George, assignor.)
Barrow, Lewis J., and G. S. Cobb, West Point, Ga. Vending-machine. No. 988,297; Apr. 4; Sp. p. 4; Gaz. vol. 165; p. 3.
Barrows, Arthur C., Providence, R. I. Carpenter's gage. No. 1,008,005; Nov. 7; Sp. p. 782; Gaz. vol. 172; p. 124.
Barrows, Emerson B., Sandwich, Ill. Harrow attachment for plows. No. 980,741; Jan. 3; Sp. p. 1207; Gaz. vol. 162; p. 193.
Barrows, Joseph E., Yardley, England. Cue for billiards and like games. No. 1,007,668; Nov. 7; Sp. p. 17; Gaz. vol. 172; p. 6.
Barrows, Robert Y., Rutherford, assignor of one-half to G. H. Harman, Glen Ridge, N. J. Organ-pipe. No. 1,006,425; Oct. 17; Sp. p. 4090; Gaz. vol. 171; p. 713.
Barrus, George H., Brookline, Mass. Steam-boiler furnace. No. 1,001,336; Aug. 22; Sp. p. 4600; Gaz. vol. 169; p. 832.
Barry, Albert T., Houston, Tex. Railway-bed and means for securing rails thereon. No. 1,004,727; Oct. 3; Sp. p. 391; Gaz. vol. 171; p. 65.
Barry, Alphonse M. and R. D., Pittsburg, Pa. Vermin and bug shield for trees. No. 983,114; Jan. 31; Sp. p. 6448; Gaz. vol. 162; p. 1120.
Barry, Angus F., Kansas City, Mo. Preserving hard wood. No. 1,006,713; Oct. 24; Sp. p. 4733; Gaz. vol. 171; p. 843.
Barry, Edwyn L., Fulham, London, England. Nut-lock. No. 1,010,343; Nov. 28; Sp. p. 5903; Gaz. vol. 172; p. 1051.
Barry, Henry, Chicago, Ill. Bottle-capping machine. No. 982,231; Jan. 24; Sp. p. 4543; Gaz. vol. 162; p. 791.
Barry, Jefferson, Avoca, Mich. Snap-hook. No. 1,009,631; Nov. 21; Sp. p. 4438; Gaz. vol. 172; p. 765.
Barry, John C., Schenectady, N. Y., assignor to General Electric Company. Regulator. No. 1,003,416; Sept. 19; Sp. p. 2676; Gaz. vol. 170; p. 492.
Barry, John J., and F. L. Street, Neodesha, Kans. Safety device for steam-boilers. No. 1,007,175; Oct. 31; Sp. p. 5790; Gaz. vol. 171; p. 1059.
Barry Manufacturing Company. (See Barry, Thomas F., assignor.)
Barry, Philip, Chicago, Ill. Filing-machine. No. 991,414; May 2; Sp. p. 1253; Gaz. vol. 166; p. 209.
Barry, Robert D. (See Barry, Alphonse M. and R. D.)
Barry, Robert J., assignor of one-half to B. F. Adams, Bingham, Me. Non-refillable bottle. No. 1,011,011; Dec. 5; Sp. p. 1336; Gaz. vol. 173; p. 213.
Barry, Thomas F., assignor to Barry Manufacturing Company, Muscatine, Iowa. Button-cutting machine. No. 999,429; Aug. 1; Sp. p. 468; Gaz. vol. 169; p. 82.
Barry, Thomas W., Chicago, Ill. Window-refrigerator. No. 980,397; Jan. 3; Sp. p. 446; Gaz. vol. 162; p. 77.
Barry-Wehmiller Machinery Company. (See Wehmiller and Dawson, assignors.)
Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Making lead chlorid. No. 984,525; Feb. 21; Sp. p. 2774; Gaz vol. 163; p. 496.
Bart, Harvey E., Broken Arrow, Okla. Wagon-box fastener. No. 1,000,886; Aug. 15; Sp. p. 3596; Gaz. vol. 169; p. 646.
Barta, Rudolf, New York, N. Y. Automatic vending-machine for post-cards or like articles. No. 1,007,049; Oct. 31; Sp. p. 5475; Gaz. vol. 171; p. 1013.
Barteau, Daisy M., Coronado, Cal. Wave-motor. No. 991,264; May 2; Sp. p. 934; Gaz. vol. 166; p. 158.
Barteau, Daisy M., Coronado, Cal. Wave-motor. No. 991,265; May 2; Sp. p. 936; Gaz. vol. 166; p. 158.
Bartel, Otto, New York, N. Y. Torch. No. 991,191; May 2; Sp. p. 779; Gaz. vol. 166; p. 132.
Bartel, Rudolph F., Bayonne, N. J. Buckle. No. 1,002,022; Aug. 29; Sp. p. 6046; Gaz. vol. 169; p. 1094.
Bartels, Carl, *et al.* (See Lease, John C., assignor.)
Bartels, George H., *et al.* (See Moore, Oliver M., assignor.)
Bartels, John L., Forest City, Ill. Stovepipe-fastener. No. 988,164; Mar. 28; Sp. p. 5126; Gaz. vol. 164; p. 909.
Bartels, William F. (See Mitchell, John C., assignor.)
Bartelt, Friedrich L., Corston Lodge, near Bristol, England. Apparatus for aerial propulsion. No. 1,001,918; Aug 29; Sp. p. 5827; Gaz. vol. 169; p. 1060.
Barter, Thomas S., Worcester, Mass. Work-holding dog. No. 1,012,967; Dec. 26; Sp. p. 5731; Gaz. vol. 173; p. 1006.
Barth, Charles F., assignor to Allis-Chalmers Company, Milwaukee, Wis. Steam-turbine. No. 995,397; June 13; Sp. p. 2827; Gaz. vol. 167; p. 480.
Barth, Luther B., Tiffin, Ohio. Fertilizer-distributer. No. 1,012,795; Dec. 26; Sp. p. 5328; Gaz. vol. 173; p. 948.
Barthel, Gustav, Dresden, Germany. Vapor-stove. No. 992,328; May 16; Sp. p. 3224; Gaz. vol. 166; p. 585.
Barthel, Hermann, Schweinfurt, Germany. Ball-bearing. No. 990,203; Apr. 18; Sp. p. 4085; Gaz. vol. 165; p. 702.
Barthel, Hermann, Schweinfurt, Germany. Ball-bearing. No. 990,204; Apr. 18; Sp. p. 4086; Gaz. vol. 165; p. 702.
Bartholome, Joseph A., Baltimore, Md. Invalid-bed frame. No. 984,879; Feb. 21; Sp. p. 3506; Gaz. vol. 163; p. 620.
Bartholomew, Cassius M., Columbus, Ohio. Reciprocating toy vehicle. No. 987,688; Mar. 28; Sp. p. 4072; Gaz. vol. 164; p. 748.
Bartholomew, Cassius M., assignor to The Morehouse Manufacturing Company, Columbus, Ohio. Toy vehicle. No. 1,006,045; Oct. 17; Sp. p. 3237; Gaz. vol. 171; p. 580.
Bartholomew, Fleury K., Campbell, Cal. Adjustable drop-light attachment. No. 980,742; Jan. 3; Sp. p. 1208; Gaz. vol. 162; p. 193.
Bartholomew, John A., Chicago, Ill. Medicinal applicator and swab. No. 982,232; Jan. 24; Sp. p. 4552; Gaz. vol. 162; p. 791.
Bartholomew, John B. (See Mahoney, Thomas E., assignor.)

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Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Safety extractor-cover. No. 1,002,894; Sept. 12; Sp. p. 1607; Gaz. vol. 170; p. 278.
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Cuff-press. No. 1,006,524; Oct. 24; Sp. p. 4336; Gaz. vol. 171; p. 778.
Bartholomew, William, assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Driving and reversing mechanism. No. 1,012,184; Dec. 19; Sp. p. 4025; Gaz. vol. 173; p. 693.
Bartholomew, William, and D. J. Phillips, assignors to Troy Laundry Machinery Company, Chicago, Ill. Motor-stopping device. No. 997,228; July 4; Sp. p. 1326; Gaz. vol. 168; p. 216.
Bartholomew, William, and F. Balzer, assignors to Troy Laundry Machinery Company, Limited, Chicago, Ill. Safety-cover. No. 1,006,523; Oct. 24; Sp. p. 4331; Gaz. vol. 171; p. 777.
Bartle, John N., Wichita Falls, Tex. Vehicle-wheel. No. 1,012,796; Dec. 26; Sp. p. 5330; Gaz. vol. 173; p. 949.
Bartlett Capping Machine Company. (See Bartlett, Leonard, assignor.)
Bartlett, Charles L., Cedar Rapids, Iowa. Bucket for transporting plastic material. No. 1,005,138; Oct. 10; Sp. p. 1202; Gaz. vol. 171; p. 226.
Bartlett, Cora, Canadian county, Okla. Rug or carpet loom. No. 1,006,897; Oct. 24; Sp. p. 5177; Gaz. vol. 171; p. 910.
Bartlett, Frederic A., trustee. (See Flood, John H., assignor.)
Bartlett, Gad R. (See Dahill and Bartlett.)
Bartlett, George N. (See Laube, Godfried and H. R., assignors.)
Bartlett, Harry D., and W. F. J. Lutz, Chicago, Ill. Water-closet bend. No. 980,860; Jan. 3; Sp. p. 1458; Gaz. vol. 162; p. 234.
Bartlett, Irene M., New York, N. Y. Garment-fitter. No. 1,003,318; Sept. 12; Sp. p. 2480; Gaz. vol. 170; p. 427.
Bartlett, John C., Detroit, Mich. Cooker. No. 993,013; May 23; Sp. p. 4687; Gaz. vol. 166; p. 854.
Bartlett, Kent W., Chicago, Ill. Liquid-treating apparatus. No. 1,011,399; Dec. 12; Sp. p. 2242; Gaz. vol. 173; p. 383.
Bartlett, Kent W., Madison, Wis., assignor to Northern Water Softener Company. Water-softening apparatus. No. 1,007,176; Oct. 31; Sp. p. 5792; Gaz. vol. 171; p. 1059.
Bartlett, Leonard, assignor to American Cork and Seal Company, Philadelphia, Pa. Bottle-seal-assembling machine. No. 993,288; May 23; Sp. p. 5248; Gaz. vol. 166; p. 941.
Bartlett, Leonard, assignor to Bartlett Capping Machine Company, Philadelphia, Pa. Bottle-capping machine. No. 1,005,795; Oct. 17; Sp. p. 2675; Gaz. vol. 171; p. 491.
Bartlett, Louis G., Somerville, Mass. Terminal for pneumatic-tube apparatus. No. 992,147; May 16; Sp. p. 2797; Gaz. vol. 166; p. 521.
Bartlett, Louis G., Somerville, Mass. Pneumatic-despatch-tube apparatus. No. 995,518; June 20; Sp. p. 3102; Gaz. vol. 167; p. 552.
Bartlett, Louis G., East Somerville, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 1,000,979; Aug. 22; Sp. p. 3812; Gaz. vol. 169; p. 711.
Bartlett, Marcus M., Winsted, Conn. Scythe. No. 992,476; May 16; Sp. p. 3551; Gaz. vol. 166; p. 636.
Bartlett, Samuel L., St. Paul, Minn. Vacuum steam-trap. No. 1,011,103; Dec. 5; Sp. p. 1545; Gaz. vol. 173; p. 245.
Bartley, Harvey. (See Davin, William E., assignor.)
Bartley, Milton, Pittsburg, Pa. Nut-lock. No. 982,118; Jan. 17; Sp. p. 4330; Gaz. vol. 162; p. 722.
Bartley, Milton, Pittsburg, Pa. Nut-lock. No. 982,223; Jan. 17; Sp. p. 4520; Gaz. vol. 162; p. 758.
Bartling, Henry F. (See Abraham, William, assignor.)
Bartmann, Bernard, Münster, Westphalia, Germany. Bobbin-holder. No. 1,003,026; Sept. 12; Sp. p. 1869; Gaz. vol. 170; p. 323.
Barton, Charles T., Buffalo, N. Y. Butter and milk mixer. No. 1,003,319; Sept. 12; Sp. p. 2485; Gaz. vol. 170; p. 428.
Barton, George V., Liverpool, England. Manufacture of lead oxid and white lead. No. 988,963; Apr. 11; Sp. p. 1407; Gaz. vol. 165; p. 249.
Barton, George V., Liverpool, England. Manufacture of red lead. No. 988,964; Apr. 11; Sp. p. 1408; Gaz. vol. 165; p. 249.
Barton, Hurbert S., and G. E. Baumgardner, Highland Park, Tenn. Power-wheel. No. 1,011,902; Dec. 19; Sp. p. 3388; Gaz. vol. 173; p. 594.
Barton, Joseph T., Chicago, Ill. Printer's tie-up. No. 1,012,185; Dec. 19; Sp. p. 4028; Gaz. vol. 173; p. 694.
Barton, Mina E., Greeley, Colo. Rope-measuring machine. No. 982,460; Jan. 24; Sp. p. 5062; Gaz. vol. 162; p. 874.
Barton, Robert. (See Brown and Barton.)
Barton, Thomas E., Washington, D. C. Window-screen. No. 988,540; Apr. 4; Sp. p. 534; Gaz. vol. 165; p. 85.
Barton, William C. (See Watts, Jones, and Barton.)
Bartosik, Joseph F., assignor of one-fourth to W. W. Ford and one-fourth to C. H. Close, Pittsburg, Pa. Power-transmitting mechanism. No. 984,526; Feb. 21; Sp. p. 2776; Gaz. vol. 163; p. 496.
Bartram, William M., Philadelphia, Pa. Steering mechanism. No. 1,012,233; Dec. 19; Sp. p. 4139; Gaz. vol. 173; p. 710.
Bartran, David W., Lake Charles, La. Baling-tie buckle. No. 1,009,632; Nov. 21; Sp. p. 4439; Gaz. vol. 172; p. 765.
Bartrum, Charles W. (See Shire, Anton, assignor.)
Bartz, Frederick C. (See Johnson and Bartz.)
Bartz, Johan C., Copenhagen, Denmark. Putting together of the metal wires in shapes for ladies' hats. No. 1,012,968; Dec. 26; Sp. p. 5733; Gaz. vol. 173; p. 1006.
Baruch, Samuel, New York, N. Y. Fastener and seal. No. 1,006,346; Oct. 17; Sp. p. 3923; Gaz. vol. 171; p. 685.
Bary, William B., St. Petersburg, Russia. Mill. No. 985,721; Feb. 28; Sp. p. 5374; Gaz. vol. 163; p. 942.
Basch, David, New York, N. Y. Garment-retaining device. No. 985,321; Feb. 28; Sp. p. 4472; Gaz. vol. 163; p. 805.
Bascom, Joseph D., St. Louis, Mo. Tow-line package. No. 1,009,633; Nov. 21; Sp. p. 4440; Gaz. vol. 172; p. 765.
Bascom, Maurice T., Adair, Iowa. Seed-corn-testing apparatus. No. 1,007,050; Oct. 31; Sp. p. 5477; Gaz. vol. 171; p. 1014.
Bascue, John C., Kingston, Mo. Stalk-cutter. No. 1,007,631; Oct. 31; Sp. p. 6772; Gaz. vol. 171; p. 1217.
Baselli, Antonio, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Earth-alkali salts of diiodo-fatty acids of high molecular weight and making same. No. 988,066; Mar. 28; Sp. p. 4943; Gaz. vol. 164; p. 877.
Baseman, Ernest, Hamilton, Ontario, Canada, assignor to International Harvester Company. Adjusting-lever mechanism. No. 1,004,728; Oct. 3; Sp. p. 392; Gaz. vol. 171; p. 66.
Basford, Claude R., San Francisco, assignor of three-eighths to W. R. Blodgett, Willets, and two-eighths to C. A. Phenegar, Oakland, Cal. Changeable-drive mechanism for automobiles. No. 994,367; June 6; Sp. p. 555; Gaz. vol. 167; p. 94.
Bashore, David, and J. E. Shaveland, Walla Walla, Wash. Air purifier and separator. No. 991,932; May 9; Sp. p. 2358; Gaz. vol. 166; p. 419.
Baskerville, Benjamin J., Joliet, Ill. Water-motor. No. 1,009,014; Nov. 14; Sp. p. 3094; Gaz. vol. 172; p. 515.
Baskin, Isadore, J. Hoffman, and E. Master, Pittsburg, Pa. Absorbent for perspiration. No. 980,398; Jan. 3; Sp. p. 447; Gaz. vol. 162; p. 78.
Basley, Manfred A., assignor of two-thirds to L. W. Harris, Chicago, Ill. Self locking and unlocking mechanism. No. 1,012,053; Dec. 19; Sp. p. 3735; Gaz. vol. 173; p. 649.
Basnett, Augustus, Austin, Tex. Shutter-slat fastener. No. 993,217; May 23; Sp. p. 5112; Gaz. vol. 166; p. 921.
Bason, Frederick W., West Pullman, Ill. Triple-valve-piston rectifier. No. 1,003,690; Sept. 19; Sp. p. 3293; Gaz. vol. 170; p. 590.
Bass, George H., Wilton, Me. Moccasin. No. 984,739; Feb. 21; Sp. p. 3233; Gaz. vol. 163; p. 572.
Bass, Morris R., and W. A. Alexander, Boston, Mass. Cue-rack. No. 1,007,414; Oct. 31; Sp. p. 6287; Gaz. vol. 171; p. 1144.
Bassett, Fred H., Oakville, Conn. Animal-trap. No. 1,006,046; Oct. 17; Sp. p. 3239; Gaz. vol. 171; p. 580.
Bassett, Henry W., Seattle, Wash. Form for molded conduits. No. 990,417; Apr. 25; Sp. p. 4609; Gaz. vol. 165; p. 811.
Bassett, Norman C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Balancing-machine. No. 995,109; June 13; Sp. p. 2216; Gaz. vol. 167; p. 385.
Bassett, Pliny E., Worcester, Mass. Shoe-stretcher. No. 999,144; July 25; Sp. p. 5548; Gaz. vol. 168; p. 986.
Bassford, William K., Perth Amboy, N. J. Igniter for engines. No. 1,002,357; Sept. 5; Sp. p. 414; Gaz. vol. 170; p. 58.
Bassick, Edgar W., Bridgeport, Conn. Handle for drawers. No. 1,005,796; Oct. 17; Sp. p. 2677; Gaz. vol. 171; p. 491.
Bassick, Edgar W., and C. S. Barnard, assignors to Burns and Bassick Company, Bridgeport, Conn. Casing for locks. No. 1,004,729; Oct. 3; Sp. p. 394; Gaz. vol. 171; p. 66.
Baster, Joseph E., Cleveland, Ohio. Cane-harvester. No. 995,994; June 20; Sp. p. 4129; Gaz. vol. 167; p. 719.
Bastert, Frank. (See Morris and Bastert.)
Bastian, Charles L., Chicago, Ill. Speedometer. No. 995,653; June 20; Sp. p. 3409; Gaz. vol. 167; p. 600.
Bastian, Charles L., assignor, by mesne assignments, to Bottlers Machinery Manufacturing Company, Chicago, Ill. Bottle-filling machine. No. 1,000,971; Aug. 15; Sp. p. 3774; Gaz. vol. 169; p. 674.
Bastian, Charles O., London, England. Vapor electric apparatus and operating the same. No. 982,119; Jan. 17; Sp. p. 4331; Gaz. vol. 162; p. 723.
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Bastian, William C., New York, N. Y. Stem for tobacco-pipes. No. 980,476; Jan. 3; Sp. p. 641; Gaz. vol. 162; p. 106.
Bastyns, Edmond. (See Sury and Bastyns.)
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Electric locomotive. No. 988,067; Mar. 28; Sp. p. 4943; Gaz. vol. 164; p. 878.
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Locomotive. No. 1,008,579; Nov. 14; Sp. p. 2160; Gaz. vol. 172; p. 368.
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Electric locomotive. No. 1,008,580; Nov. 14; Sp. p. 2163; Gaz. vol. 172; p. 368.
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Electric-locomotive truck. No. 1,008,581; Nov. 14; Sp. p. 2164; Gaz. vol. 172; p. 369.
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Electric locomotive. No. 1,008,582; Nov. 14; Sp. p. 2165; Gaz. vol. 172; p. 369.
Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Electric locomotive. No. 1,008,937; Nov. 14; Sp. p. 2921; Gaz. vol. 172; p. 488.
Batchelder, Frank R., Worcester, Mass. Hanger-strap for vehicles. No. 992,398; May 16; Sp. p. 3383; Gaz. vol. 166; p. 609.
Batchelder, Frank R., Worcester, Mass. Carrier for first-aid packages or outfits. No. 1,007,515; Oct. 31; Sp. p. 6519; Gaz. vol. 171; p. 1178.
Batchelder, Frank R., assignor to Mills Woven Cartridge Belt Company, Worcester, Mass. Cartridge belt or carrier. No. 985,499; Feb. 28; Sp. p. 4878; Gaz. vol. 163; p. 866.
Batchelder, Matthew S., Fond du Lac, Wis. Cow-stall. No. 1,009,714; Nov. 28; Sp. p. 4621; Gaz. vol. 172; p. 839.
Batchelor, Jamie H., and H. H. Smith, Dothan, Ala. Internal-combustion engine. No. 987,848; Mar. 28; Sp. p. 4410; Gaz. vol. 164; p. 803.
Batdorf, Charles S., Brooklyn, N. Y., assignor to Universal Coin-Wrapping Machine Company. Coin-handling machine. No. 998,830; July 25; Sp. p. 4863; Gaz. vol. 168; p. 878.
Bate, Thomas. (See Woodhouse and Bate.)
Bate, Warwick G., Cleveland, Ohio. Evaporating vessel. No. 996,047; June 27; Sp. p. 4247; Gaz. vol. 167; p. 772.
Bateman, Frank, assignor to Bateman Manufacturing Company, Grenloch, N. J. Furrow-covering machine. No. 999,005; July 25; Sp. p. 5285; Gaz. vol. 168; p. 941.
Bateman, Loftus H. (See Bateman, Richard W. and L. H.)
Bateman Manufacturing Company. (See Bateman, Frank, assignor.)
Bateman Manufacturing Company. (See Willis, Leland, assignor.)
Bateman Manufacturing Company. (See Willis and Woodworth, assignors.)
Bateman, Paul, St. Louis, Mo. Dump-car. No. 981,157; Jan. 10; Sp. p. 2237; Gaz. vol. 162; p. 369.
Bateman, Pliny B., Dayton, Wash. Harrow-weeder. No. 987,535; Mar. 21; Sp. p. 3723; Gaz. vol. 164; p. 666.
Bateman, Richard W. and L. H., Leeds, England. Vise. No. 1,002,486; Sept. 5; Sp. p. 693; Gaz. vol. 170; p. 101.
Bates, Adelmer M., Cleveland, Ohio. Bag. No. 1,012,797; Dec. 26; Sp. p. 5331; Gaz. vol. 173; p. 949.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Cleveland, Ohio. Machine for filling bags. No. 980,905; Jan. 10; Sp. p. 1612; Gaz. vol. 162; p. 280.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Cleveland, Ohio. Machine for filling valve-bags. No. 980,906; Jan. 10; Sp. p. 1614; Gaz. vol. 162; p. 280.
Bates, Adelmer M., assignor to Bates Valve Bag Company, Cleveland, Ohio. Bagging-machine. No. 992,148; May 16; Sp. p. 2798; Gaz. vol. 166; p. 522.
Bates, Albert H., Cleveland, Ohio. Street-car. No. 1,010,843; Dec. 5; Sp. p. 991; Gaz. vol. 173; p. 155.
Bates, Albert H., assignor to The American Multigraph Company, Cleveland, Ohio. Ribbon-feeding mechanism. No. 991,599; May 9; Sp. p. 1666; Gaz. vol. 166; p. 306.
Bates, Albert H., assignor to The American Multigraph Company, Cleveland, Ohio. Duplicating-machine. No. 993,495; May 30; Sp. p. 5722; Gaz. vol. 166; p. 1046.
Bates, Albert J., Chicago, Ill. Making trussed structures. No. 1,005,925; Oct. 17; Sp. p. 2980; Gaz. vol. 171; p. 538.
Bates, Albert J., Chicago, Ill. Trussed structure. No. 1,006,047; Oct. 17; Sp. p. 3240; Gaz. vol. 171; p. 580.
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Bates, Arthur. (See Marsh and Bates.)
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Punching-machine. No. 994,298; June 6; Sp. p. 401; Gaz. vol. 167; p. 68.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting nails in heels. No. 1,000,957; Aug. 15; Sp. p. 3735; Gaz. vol. 169; p. 669.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Heel-breasting machine. No. 1,000,980; Aug. 22; Sp. p. 3815; Gaz. vol. 169; p. 711.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,002,358; Sept. 5; Sp. p. 415; Gaz. vol. 170; p. 59.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,002,359; Sept. 5; Sp. p. 427; Gaz. vol. 170; p. 59.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Press. No. 1,005,139; Oct. 10; Sp. p. 1203; Gaz. vol. 171; p. 226.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,006,456; Oct. 24; Sp. p. 4172; Gaz. vol. 171; p. 753.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,006,821; Oct. 24; Sp. p. 4985; Gaz. vol. 171; p. 883.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Lasting and tacking machine. No. 1,007,051; Oct. 31; Sp. p. 5479; Gaz. vol. 171; p. 1014.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making boots and shoes. No. 1,009,036; Nov. 21; Sp. p. 3146; Gaz. vol. 172; p. 558.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Boston, Mass. Clutch. No. 1,011,903; Dec. 19; Sp. p. 3389; Gaz. vol. 173; p. 594.
Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-finishing apparatus. No. 1,011,904; Dec. 19; Sp. p. 3394; Gaz. vol. 173; p. 595.
Bates, Arthur, A. E. Jerram, and J. Gouldbourn, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Awl-controlling mechanism. No. 1,000,573; Aug. 15; Sp. p. 2923; Gaz. vol. 169; p. 535.
Bates, Eddo V., Lowell, Mass. Card-feeding mechanism. No. 1,010,569; Dec. 5; Sp. p. 374; Gaz. vol. 173; p. 59.
Bates, Frank. (See Polglase and Bates.)
Bates, George. (See Richards and Bates.)
Bates, George A. (See Owen and Bates.)
Bates, George H. (See Westburg and Bates.)
Bates, Harry, New York, N. Y. Automatic predetermined card-index-memoranda apparatus. No. 985,125; Feb. 28; Sp. p. 3996; Gaz. vol. 163; p. 736.
Bates, Harry, West Copake, N. Y. Time-controlled apparatus. No. 1,007,415; Oct. 31; Sp. p. 6288; Gaz. vol. 171; p. 1144.
Bates, Henry A., Middletown, Conn. Sewing-machine shuttle. No. 986,124; Mar. 7; Sp. p. 772; Gaz. vol. 164; p. 125.
Bates, Henry A., Middletown, Conn. Shuttle for sewing-machines. No. 986,125; Mar. 7; Sp. p. 774; Gaz. vol. 164; p. 125.
Bates, Milton B., Farmers Exchange, Tenn. Peanut threshing and recleaning machine. No. 1,002,116; Aug. 29; Sp. p. 6216; Gaz. vol. 169; p. 1123.
Bates, Richard S., Sterling, Colo. Plow. No. 988,850; Apr. 4; Sp. p. 1184; Gaz. vol. 165; p. 189.
Bates Valve Bag Company. (See Bates, Adelmer M., assignor.)
Bates, Walter N., Westwood, Mass. Inking device for printing-presses. No. 1,001,576; Aug. 22; Sp. p. 5058; Gaz. vol. 169; p. 911.
Bates, William M., *et al.* (See Erb, Theodore C., assignor.)
Bates, William W., Lindale, Tex. Whiffletree attachment. No. 1,000,981; Aug. 22; Sp. p. 3820; Gaz. vol. 169; p. 712.
Bathrick, Charles E., assignor to F. C. Austin, Chicago, Ill. Machine for use in street-paving work. No. 990,513; Apr. 25; Sp. p. 4848; Gaz. vol. 165; p. 845.
Bathrick, Charles E., assignor to F. C. Austin, Chicago, Ill. Machine for chopping up asphalt or like pavement. No. 1,004,730; Oct. 3; Sp. p. 394; Gaz. vol. 171; p. 66.
Bathrick, Charles E., assignor to F. C. Austin, Chicago, Ill. Hoist for concrete and the like. No. 1,009,037; Nov. 21; Sp. p. 3149; Gaz. vol. 172; p. 558.
Bathrick, Charles E., assignor to F. C. Austin, Chicago, Ill. Hoist for concrete and like material. No. 1,009,038; Nov. 21; Sp. p. 3151; Gaz. vol. 172; p. 559.
Batistoni, Eolo, San Francisco, Cal. Spraying apparatus. No. 997,034; July 4; Sp. p. 945; Gaz. vol. 168; p. 150.
Batsford, Sterling B. (See Reist and Batsford.)
Battee, Henry S., assignor to Shock & Hay Loader Co., Minneapolis, Minn. Bundle-loader. No. 1,005,126; Oct. 10; Sp. p. 1181; Gaz. vol. 171; p. 222.
Battenfeld, John, Marion, Ohio. Fastener. No. 991,192; May 2; Sp. p. 781; Gaz. vol. 166; p. 132.
Batterman, David F. and D. W., Gettysburg, assignors to Batterman Reversible Gasoline Engine Company, Biglerville, Pa. Internal-combustion motor. No. 1,004,526; Sept. 26; Sp. p. 5120; Gaz. vol. 170; p. 901.

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Batterson, C. W. (See Fawkes, Filbert C., assignor.)
Battey, Sumter B., New York, N. Y. Liquid self-igniting device. No. 987,104; Mar. 21; Sp. p. 2802; Gaz. vol. 164; p. 516.
Battey, Sumter B., New York, N. Y. Stropping device for safety-razors. No. 1,007,416; Oct. 31; Sp. p. 6295; Gaz. vol. 171; p. 1144.
Battin, Grover C., Alma, Nebr. Hay-rack brake. No. 1,008,520; Nov. 14; Sp. p. 2020; Gaz. vol. 172; p. 345.
Battin, Harold T., Bridgeport, Conn. Safety lock-bolt. No. 986,539; Mar. 14; Sp. p. 1658; Gaz. vol. 164; p. 295.
Battle, H. B. (See Mills, James E., assignor.)
Batts, John T., Grand Rapids, Mich. Garment-hanger. No. 980,907; Jan. 10; Sp. p. 1620; Gaz. vol. 162; p. 281.
Batts, John T., Grand Rapids, Mich. Garment-hanger. No. 980,908; Jan. 10; Sp. p. 1621; Gaz. vol. 162; p. 281.
Batts, John T., Grand Rapids, Mich. Garment-support for wardrobes. No. 992,105; May 9; Sp. p. 2670; Gaz. vol. 166; p. 475.
Batts, John T., Grand Rapids, Mich. Show-case. No. 1,007,052; Oct. 31; Sp. p. 5489; Gaz. vol. 171; p. 1015.
Batzer, Richard M., Albuquerque, N. Mex. Spring-tire wheel. No. 996,048; June 27; Sp. p. 4249; Gaz. vol. 167; p. 772.
Baublits, Don P., assignor of twenty one-hundredths to W. E. Johnston, twenty one-hundredths to J. Eckles, twenty one-hundredths to J. I. Johnston, and twenty one-hundredths to C. C. Trapp, Graham, Mo. Can-opener. No. 992,635; May 16; Sp. p. 3882; Gaz. vol. 166; p. 692.
Bauer & Black. (See Bauer, Perry S., assignor.)
Bauer & Black. (See Shaw, Herbert C., assignor.)
Bauer Brothers Company, The. (See Adelsperger, Dow L., assignor.)
Bauer, Carl E., and W. E. Fowler, Jr., Hammond, Ind., assignors to Simplex Railway Appliance Company, Chicago, Ill. Brake-beam. No. 984,643; Feb. 21; Sp. p. 3033; Gaz. vol. 163; p. 537.
Bauer, Conrad, Mount Oliver Station, Pa. Screen construction. No. 983,342; Feb. 7; Sp. p. 178; Gaz. vol. 163; p. 31.
Bauer, Conrad, Pittsburg, Pa. Screen. No. 1,002,360; Sept. 5; Sp. p. 429; Gaz. vol. 170; p. 59.
Bauer, Edward H., Chicago, Ill., and L. L. Whitney, Hammond, Ind., assignor to Simplex Railway Appliance Company, Chicago, Ill. Draft-rigging. No. 1,010,012; Nov. 28; Sp. p. 5243; Gaz. vol. 172; p. 939.
Bauer, Edward W., assignor to Art Metal Construction Company, Jamestown, N. Y. Document-file. No. 996,695; July 4; Sp. p. 198; Gaz. vol. 168; p. 34.
Bauer, John. (See Meeks, William J., assignor.)
Bauer, Joseph. (See Scott, Elmore J., assignor.)
Bauer, Louis P., and T. Speck, Chicago, Ill.; said Speck assignor to said Bauer. Manufacture of starch. No. 986,540; Mar. 14; Sp. p. 1659; Gaz. vol. 164; p. 295.
Bauer, Louis P., and T. Speck, Chicago, Ill.; said Speck assignor to said Bauer. Manufacture of starch. No. 986,541; Mar. 14; Sp. p. 1664; Gaz. vol. 164; p. 296.
Bauer, Perry S., assignor to Bauer & Black, Chicago, Ill. Fumigator. No. 1,003,393; Sept. 12; Sp. p. 2628; Gaz. vol. 170; p. 452.
Bauer, Wilhelm, Vohwinkel, near Elberfeld, and A. Herre, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 997,260; July 11; Sp. p. 1398; Gaz. vol. 168; p. 258.
Bauer, Wilhelm, Vohwinkel, A. Herre and R. Mayer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 985,767; Mar. 7; Sp. p. 4; Gaz. vol. 164; p. 3.
Bauer, Wilhelm, Vohwinkel, A. Herre and R. Mayer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 985,768; Mar. 7; Sp. p. 5; Gaz. vol. 164; p. 3.
Bauer, Wilhelm, Vohwinkel, A. Herre and R. Mayer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dyestuff. No. 985,769; Mar. 7; Sp. p. 5; Gaz. vol. 164; p. 4.
Bauer, Wilhelm, Vohwinkel, A. Herre and R. Mayer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dyestuff. No. 985,770; Mar. 7; Sp. p. 6; Gaz. vol. 164; p. 4.
Bauer, Wilhelm, Vohwinkel, A. Herre and R. Mayer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 998,596; July 25; Sp. p. 4342; Gaz. vol. 168; p. 796.
Bauer, Wilhelm, Vohwinkel, A. Herre and R. Mayer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 1,001,919; Aug. 29; Sp. p. 5828; Gaz. vol. 169; p. 1060.
Bauer, Wilhelm, Vohwinkel, A. Herre and R. Mayer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 1,005,140; Oct. 10; Sp. p. 1212; Gaz. vol. 171; p. 227.
Bauer, Wilhelm, Vohwinkel, A. Herre and R. Mayer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 1,005,141; Oct. 10; Sp. p. 1213; Gaz. vol. 171; p. 227.
Bauer, William M., Chicago, Ill. Piano. No. 1,002,553; Sept. 5; Sp. p. 830; Gaz. vol. 170; p. 122.
Bauerfeind, Henry, Shawano, Wis. Limb-rest. No. 988,923; Apr. 4; Sp. p. 1322; Gaz. vol. 165; p. 212.
Bauernfeind, John, Medford, Wis. Tailor's square. No. 999,359; Aug. 1; Sp. p. 333; Gaz. vol. 169; p. 59.
Bauers, Clarence D. (See Miller, Frank W., assignor.)
Bauert, William H., Forbes, New South Wales, Australia. Signal mechanism for stopping railway-engines. No. 995,316; June 13; Sp. p. 2610; Gaz. vol. 167; p. 452.
Baugatz, Frederic G., Paris, France. Shirt. No. 1,002,117; Aug. 29; Sp. p. 6218; Gaz. vol. 169; p. 1124.
Baugh, Ivy L., Richmond, Va. Jewelry-case. No. 1,004,968; Oct. 3; Sp. p. 893; Gaz. vol. 171; p. 147.
Baughman, Alton L. (See Winebrenner, Andrew J., assignor.)
Baughn, Samuel C., assignor of one-half to B. H. Harris, Canalou, Mo. Grave-vault. No. 994,299; June 6; Sp. p. 404; Gaz. vol. 167; p. 69.
Baujard, Georges, Paris, France. Atomizer. No. 985,500; Feb. 28; Sp. p. 4880; Gaz. vol. 163; p. 866.
Baum, Albert E., assignor of one-half to T. Graham, Waterloo, Iowa. Transmission device. No. 1,011,905; Dec. 19; Sp. p. 3396; Gaz. vol. 173; p. 595.
Baum & Co., Fritz. (See Rotter, Anton, assignor.)
Baum, Frank G. (See Jorgensen, Lars, assignor.)
Baum, Frank G., San Francisco, Cal. Method of and apparatus for cooling electrical generators and motors. No. 987,536; Mar. 21; Sp. p. 3725; Gaz. vol. 164; p. 666.
Baum, Henry G., assignor of one-half to Pullman Motor Car Co., York, Pa. Automobile-hood. No. 1,010,844; Dec. 5; Sp. p. 994; Gaz. vol. 173; p. 155.
Baum, John, Easton, Pa. Adjustable shade-roller and curtain-pole bracket. No. 1,012,183; Dec. 19; Sp. p. 4023; Gaz. vol. 173; p. 693.
Baum, Leo A., New York, N. Y. Cigar-tip cutter. No. 997,261; July 11; Sp. p. 1398; Gaz. vol. 168; p. 258.
Baum, Louis, Harrisburg, Pa. Device for bending ends of pins. No. 985,103; Feb. 21; Sp. p. 3935; Gaz. vol. 163; p. 695.
Baum, Walter, Lebanon, assignor to J. B. Yoch, O'Fallon, Ill. Plow. No. 1,005,501; Oct. 10; Sp. p. 2030; Gaz. vol. 171; p. 356.
Bauman, Arthur A. (See Hull, Cutler, and Bauman.)
Baumann, August, New York, N. Y. Pickling. No. 1,003,320; Sept. 12; Sp. p. 2486; Gaz. vol. 170; p. 428.
Baumann, Ernst K. A., Stuttgart-Oberturkheim, assignor of one-half to E. E. Freytag, Zwickau, Germany. Aeroplane. No. 985,126; Feb. 28; Sp. p. 3999; Gaz. vol. 163; p. 737.
Baumann, Ernst K. A., Stuttgart-Obertürkheim, assignor of one-half to E. E. Freytag, Zwickau, Saxony, Germany. Gas-turbine. No. 990,185; Apr. 18; Sp. p. 4050; Gaz. vol. 165; p. 696.
Baumann, Karl F. (See Berg and Baumann.)
Baumeister, Leonhard, Erlangen, Germany, assignor to Kny-Scheerer Company, New York, N. Y. Mercury-contact breaker. No. 1,000,320; Aug. 8; Sp. p. 2336; Gaz. vol. 169; p. 413.
Baumgardner, George E. (See Barton and Baumgardner.)
Baumgarten, Dora L., Seattle, Wash. Cloth-cutting gage. No. 997,229; July 4; Sp. p. 1328; Gaz. vol. 168; p. 217.
Baumgartner, Charles B., Cedar Rapids, Iowa. Screen-making machine. No. 990,825; Apr. 25; Sp. p. 5513; Gaz. vol. 165; p. 950.
Baumgartner, Conrad, Schenectady, N. Y., assignor to General Electric Company. Automatic pneumatic feed for punch-presses. No. 1,001,606; Aug. 29; Sp. p. 5134; Gaz. vol. 169; p. 952.
Baumgartner, Henry, Bradford, England. Device for preventing seasickness and also applicable to lifts on board ship. No. 991,820; May 9; Sp. p. 2134; Gaz. vol. 166; p. 380.
Baumle, Emil A. (See Schaefer, Theodore W., assignor.)
Baumruk, Joseph, Jr. (See Kriz and Schorik, assignors.)
Baur, Carl H. Vom, assignor, by mesne assignments, to G. W. Morgan, New York, N. Y. Rotary explosive-engine. No. 991,933; May 9; Sp. p. 2359; Gaz. vol. 166; p. 419.
Bauroth, Leonhard. (See Brown and Bauroth.)
Bauroth, Leonhard, Toledo, Ohio, assignor to The Metallic Barrel Company, Chicago, Ill. Barrel-making machine. No. 980,399; Jan. 3; Sp. p. 448; Gaz. vol. 162; p. 78.
Bauroth, Leonhard, Toledo, Ohio, assignor to The Metallic Barrel Company, Chicago, Ill. Metallic package. No. 1,000,486; Aug. 15; Sp. p. 2714; Gaz. vol. 169; p. 503.
Bauroth, Leonhard, Toledo, Ohio, assignor to C. H. Wacker, Chicago, Ill. Barrel-forming die. No. 1,000,574; Aug. 15; Sp. p. 2927; Gaz. vol. 169; p. 536.
Bauroth, Leonhard, Toledo, Ohio, assignor to The Metallic Barrel Company, Chicago, Ill. Barrel-sizing and crimp-rolling machine. No. 1,003,417; Sept. 19; Sp. p. 2678; Gaz. vol. 170; p. 492.
Bausch & Lomb Optical Company. (See Kellner, Gustav A. H., assignor.)
Bausch & Lomb Optical Company. (See Saegmüller, Frederick B., assignor.)
Bausch & Lomb Optical Company. (See Saegmuller, George N., assignor.)

Alphabetical list of patentees—Continued.

Bausch & Lomb Optical Company. (See Saegmuller and Grebe, assignors.)
Bausch & Lomb Optical Company. (See Sailer, Ernst, assignor.)
Bauschlicher, August, Frankfort-on-the-Main-Sachsenhausen, Germany. Gearing. No. 980,909; Jan. 10; Sp. p. 1622; Gaz. vol. 162; p. 281.
Bauschlicher, August, Frankfort-on-the-Main-Sachsenhausen, Germany. Gearing. No. 996,605; July 4; Sp. p. 12; Gaz. vol. 168; p. 4.
Baush, William H., assignor to New England Roller Grate Company, Springfield, Mass. Rocking grate. No. 988,687; Apr. 4; Sp. p. 846; Gaz. vol. 165; p. 137.
Bausher, Thomas D., Reading, Pa. Kindler and fuel. No. 984,644; Feb. 21; Sp. p. 3035; Gaz. vol. 163; p. 537.
Bautz, Andrew J., Milwaukee, Wis. Safety device for elevators. No. 995,654; June 20; Sp. p. 3410; Gaz. vol. 167; p. 600.
Bavier, Charles S., New York, N. Y. Lubrication. No. 1,000,958; Aug. 15; Sp. p. 3748; Gaz. vol. 169; p. 670.
Bawtree, Alfred E. (See Morris and Bawtree.)
Baxter, Arthur E., Stockholm, assignor of one-half to The Standard Veneer Company, Houlton, Me. Attachment for veneer-cutting machines. No. 1,004,345; Sept. 26; Sp. p. 4745; Gaz. vol. 170; p. 839.
Baxter, Calvin S., Nelson, Pa. Surgical appliance. No. 1,011,146; Dec. 12; Sp. p. 1679; Gaz. vol. 173; p. 295.
Baxter, Daniel N., trustee. (See Baxter, Daniel N., assignor.)
Baxter, Daniel N., Wichita, Kans. Boiler-cleaner. No. 1,002,361; Sept. 5; Sp. p. 430; Gaz. vol. 170; p. 60.
Baxter, Daniel N., Ardmore, Okla., assignor to D. N. Baxter, trustee, Wichita, Kans. Fifth-wheel for motor-vehicles. No. 1,007,262; Oct. 31; Sp. p. 5973; Gaz. vol. 171; p. 1090.
Baxter, Frederic L., Grand Rapids, Mich. Safety appliance for centrifugal wringers. No. 981,833; Jan. 17; Sp. p. 3698; Gaz. vol. 162; p. 625.
Baxter, George A. (See Van Norman and Baxter.)
Baxter, Irving K., Utica, N. Y., and C. F. Barrett, assignors to The Standard Vacuum Cleaner Co., Bridgeport, Conn. Pump for portable vacuum-cleaners. No. 997,732; July 11; Sp. p. 2376; Gaz. vol. 168; p. 418.
Baxter, Joseph S., Millsap, Tex. Automatic air-brake appliance. No. 990,953; May 2; Sp. p. 273; Gaz. vol. 166; p. 47.
Baxter, Lonnie A., Cincinnati, Ohio. Hame-fastener. No. 984,183; Feb. 14; Sp. p. 2005; Gaz. vol. 163; p. 344.
Baxter, William C., Washington, D. C. Pipe. No. 981,910; Jan. 17; Sp. p. 3881; Gaz. vol. 162; p. 652.
Baxter, William E. (See Stelle and Baxter.)
Bay State Optical Company. (See Clulee, Stephen J., assignor.)
Bayard, Emery, Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for use in making shoes. No. 1,006,457; Oct. 24; Sp. p. 4179; Gaz. vol. 171; p. 753.
Bayard, Emery, Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-assembling apparatus. No. 1,007,053; Oct. 31; Sp. p. 5491; Gaz. vol. 171; p. 1015.
Bayer, Frederick, Jacksonville, Fla. Sewing-machine attachment. No. 983,343; Feb. 7; Sp. p. 180; Gaz. vol. 163; p. 32.
Bayer, Henry E., assignor of one-fourth to E. E. Rieck, Pittsburgh, Pa. Trolley guard and finder. No. 1,005,797; Oct. 17; Sp. p. 2678; Gaz. vol. 171; p. 492.
Bayer, John, Cleveland, Ohio. Pattern-plate. No. 984,461; Feb. 14; Sp. p. 2596; Gaz. vol. 163; p. 439.
Bayer, John, Cleveland, Ohio. Pattern-plate. No. 985,967; Mar. 7; Sp. p. 454; Gaz. vol. 164; p. 73.
Bayer, Lee, Willisville, Ill. Mine-cage signal. No. 1,001,337; Aug. 22; Sp. p. 4603; Gaz. vol. 169; p. 833.
Bayer, William F., assignor to The Chase & Baker Company, Buffalo, N. Y. Key-lock for autopianos. No. 981,158; Jan. 10; Sp. p. 2239; Gaz. vol. 162; p. 370.
Bayer, William F., assignor to The Chase & Baker Company, Buffalo, N. Y. Automatic musical instrument. No. 994,052; May 30; Sp. p. 6887; Gaz. vol. 166; p. 1237.
Bayer, William F., assignor to The Chase & Baker Company, Buffalo, N. Y. Bellows for automatic musical instruments. No. 1,006,426; Oct. 17; Sp. p. 4092; Gaz. vol. 171; p. 713.
Bayles, Lewis C., Johannesburg, Transvaal, assignor to Ingersoll-Rand Company, New York, N. Y. Combined throttle-valve and oiler. No. 982,927; Jan. 31; Sp. p. 6042; Gaz. vol. 162; p. 1057.
Bayles, Lewis C., Johannesburg, Transvaal, assignor to Ingersoll-Rand Company, New York, N. Y. Valve-motion for rock-drills. No. 985,385; Feb. 28; Sp. p. 4602; Gaz. vol. 163; p. 825.
Bayles, Lewis C., Johannesburg, Transvaal, assignor to Ingersoll-Rand Company, New York, N. Y. Oiler for pressure-fluid tools. No. 989,558; Apr. 18; Sp. p. 2717; Gaz. vol. 165; p. 484.
Bayles, Lewis C., Johannesburg, Transvaal, assignor to Ingersoll-Rand Company, New York, N. Y. Valve-motion for rock-drills. No. 993,014; May 23; Sp. p. 4688; Gaz. vol. 166; p. 854.
Bayles, Lewis C., Johannesburg, Transvaal, assignor to Ingersoll-Rand Company, New York, N. Y. Valve-motion for rock-drills. No. 993,218; May 23; Sp. p. 5113; Gaz. vol. 166; p. 921.
Bayles, Lewis C., Johannesburg, Transvaal, assignor to Ingersoll-Rand Company, New York, N. Y. Direct-acting engine. No. 996,448; June 27; Sp. p. 5189; Gaz. vol. 167; p. 909.
Bayles, Lewis C., Johannesburg, Transvaal, assignor to Ingersoll-Rand Company, New York, N. Y. Shell for rock-drilling machines. No. 1,009,376; Nov. 21; Sp. p. 3924; Gaz. vol. 172; p. 680.
Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Valve-motion for rock-drills. (Reissue.) No. 13,317; Nov. 21; Sp. p. 4597; Gaz. vol. 172; p. 793.
Bayless, George J., Oakland, Cal. Portable telephone-pole. No. 985,127; Feb. 28; Sp. p. 4001; Gaz. vol. 163; p. 737.
Bayless, Patrick A., Oklahoma, Okla. Vacuum-refrigerator. No. 986,673; Mar. 14; Sp. p. 1946; Gaz. vol. 164; p. 343.
Bayley, Arthur J., and H. A. Zastrow, Milwaukee, Wis. Price-indicating scale. No. 1,003,418; Sept. 19; Sp. p. 2681; Gaz. vol. 170; p. 493.
Bayley, William, Springfield, Ohio. Apparatus for and process of laying paving material. No. 992,538; May 16; Sp. p. 3677; Gaz. vol. 166; p. 659.
Bayne, Eugene D. C., and L. A. Subers, Cleveland, Ohio. Automatic machine for laying adhering cords or threads upon a stationary mandrel to form an unwoven fabric. No. 987,791; Mar. 28; Sp. p. 4289; Gaz. vol. 164; p. 782.
Bayne, Eugene D. C., and L. A. Subers, Cleveland, Ohio. Automatic machine for applying longitudinally and spirally laid coated cords or threads to produce a fabric. No. 990,694; Apr. 25; Sp. p. 5241; Gaz. vol. 165; p. 905.
Bayne, Eugene D. C., and L. A. Subers, Cleveland, Ohio. Automatic machine for the manufacture of unwoven tubular fabric upon a longitudinally-moving mandrel or former. No. 991,266; May 2; Sp. p. 938; Gaz. vol. 166; p. 159.
Baynes, Cyril. (See Hall and Baynes.)
Bayuk, Nickolas, McKinley, Minn. Railway-tie and rail-fastener. No. 998,669; July 25; Sp. p. 4509; Gaz. vol. 168; p. 822.
Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Lifting device for coupling-locks. No. 1,012,969; Dec. 26; Sp. p. 5734; Gaz. vol. 173; p. 1006.
Bazell, Frederick G., Coventry, assignor to A. C. Loxley, Leeds, England. Ceiling-rose and the like for use in electric circuits. No. 1,007,054; Oct. 31; Sp. p. 5497; Gaz. vol. 171; p. 1015.
Bazley, William H., Everett, Mass., assignor to The Electric Compressing Machine Company. Sausage-stuffing machine. No. 1,002,487; Sept. 5; Sp. p. 695; Gaz. vol. 170; p. 101.
Be Vier, Abram D., and J. Monteith, Clyde, Ohio. Window-screen. No. 997,951; July 18; Sp. p. 2922; Gaz. vol. 168; p. 536.
Beach, Arthur T., and H. C. Russ, New York, N. Y. Rotary pump. No. 1,002,023; Aug. 29; Sp. p. 6047; Gaz. vol. 169; p. 1094.
Beach, Benjamin R., Fieldsboro, N. J. Trolley wheel and finder. No. 1,011,723; Dec. 12; Sp. p. 2992; Gaz. vol. 173; p. 498.
Beach, Bertha W. (See Beach, Henry M., assignor.)
Beach, Clarence E. (See Doughty and Beach.)
Beach, Edward P., Freehold, N. J. Tire. No. 990,214; Apr. 25; Sp. p. 4116; Gaz. vol. 165; p. 737.
Beach, Henry M., assignor to B. W. Beach, Remsen, N. Y. Coin-controlled delivery apparatus. No. 1,011,105; Dec. 5; Sp. p. 1548; Gaz. vol. 173; p. 245.
Beach Manufacturing Co. (See Harrower, Lewis T., assignor.)
Beach, Oscar W., Los Angeles, Cal. Metallic railway-tie. No. 997,893; July 11; Sp. p. 2776; Gaz. vol. 168; p. 474.
Beacon Cutlery Company. (See Riley, Peter, assignor.)
Beadenkopf, Clarence M., Wilmington, Del. Leather-conveying mechanism. No. 1,007,841; Nov. 7; Sp. p. 457; Gaz. vol. 172; p. 68.
Beadle, George W., Montclair, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Printing attachment for carton-crimping machines. No. 996,827; July 4; Sp. p. 463; Gaz. vol. 168; p. 77.
Beadle, George W., Bayonne, N. J., assignor to Single Service Package Corporation of America, New York, N. Y. Spinning-disk for crimping-machines. No. 1,010,215; Nov. 28; Sp. p. 5636; Gaz. vol. 172; p. 1008.
Beadle, Horace D. (See Beadle, Thomas P., assignor.)
Beadle, Thomas P., Climax, assignor of one-half to H. D. Beadle, Kalamazoo, Mich. Nut and bolt lock. No. 1,011,309; Dec. 12; Sp. p. 2064; Gaz. vol. 173; p. 353.
Beahm, Peter, Altoona, assignor of one-third to C. A. Buch and one-third to J. P. Forsyth, Wayne, Pa. Apparatus for truing ports of automatic connectors for train-pipes. No. 1,007,632; Oct. 31; Sp. p. 6774; Gaz. vol. 171; p. 1218.

Alphabetical list of patentees—Continued.

Beal, George W., New York, N. Y. Gate for stopping runaway animals. No. 992,329; May 16; Sp. p. 3225; Gaz. vol. 166; p. 585.
Beal, Samuel R., and J. D. Crandell, assignors to Adrian Novelty Co., Adrian, Mich. Coin-controlled apparatus. No. 993,641; May 30; Sp. p. 6038; Gaz. vol. 166; p. 1097.
Beall, Albert E., and C. F. Skellenger, Clinton, Iowa, assignors to Iowa Motor Wheel Company. Vehicle-wheel. No. 1,006,525; Oct. 24; Sp. p. 4340; Gaz. vol. 171; p. 778.
Beall, Arthur L. (See Dailey, Howard P., assignor.)
Beall, John, assignor to H. Crea and L. D. White, Decatur, Ill. Grain-cleaner. No. 984,740; Feb. 21; Sp. p. 3234; Gaz. vol. 163; p. 572.
Beall, John S. (See Jarmin, James B., assignor.)
Beall, Richard J., Jr., Washington, D. C. Removable pile for forming concrete piling. No. 999,430; Aug. 1; Sp. p. 469; Gaz. vol. 169; p. 82.
Beall, Richard J., Jr., Washington, D. C. Forming concrete piles. No. 999,431; Aug. 1; Sp. p. 472; Gaz. vol. 169; p. 82.
Beall, William L., assignor to Gale Manufacturing Company, Albion, Mich. Straddle-row cultivator. No. 990,624; Apr. 25; Sp. p. 5060; Gaz. vol. 165; p. 882.
Beals, Albert E., Detroit, Mich. System for making ice. No. 983,017; Jan. 31; Sp. p. 6249; Gaz. vol. 162; p. 1087.
Beals, Walton W., New York, N. Y. Container. No. 985,322; Feb. 28; Sp. p. 4474; Gaz. vol. 163; p. 805.
Beam, Jacob B., Punxsutawney, Pa. Wheel-tire. No. 1,012,186; Dec. 19; Sp. p. 4029; Gaz. vol. 173; p. 694.
Beamer, James A., Tyrone, Pa. Car-coupling. No. 984,997; Feb. 21; Sp. p. 3724; Gaz. vol. 163; p. 658.
Beamish, John H., Ponsonby, Auckland, New Zealand. Sash-bar for glass structures. No. 1,000,887; Aug. 15; Sp. p. 3597; Gaz. vol. 169; p. 647.
Bean, Bruce W., Lansdale, Pa. Clutch for transmission-pulleys. No. 999,948; Aug. 8; Sp. p. 1517; Gaz. vol. 169; p. 287.
Bean, E. J. (See Phillips, Jay V., assignor.)
Bean Spray Pump Co. (See Budlong, Wilbur F., assignor.)
Bean, Wilbert M., Malden, Mass. Wind-shield. No. 985,245; Feb. 28; Sp. p. 4311; Gaz. vol. 163; p. 779.
Bean, William H., Ferndale, Pa. Electric trolley-wheel. No. 997,262; July 11; Sp. p. 1400; Gaz. vol. 168; p. 258.
Bean, William H., Blue Mound, Ill. Corn-harvester attachment. No. 998,150; July 18; Sp. p. 3362; Gaz. vol. 168; p. 606.
Beange, Alexander, Aberchirder, Scotland. Moldboard for plows. No. 1,006,458; Oct. 24; Sp. p. 4186; Gaz. vol. 171; p. 753.
Bear, Carlton J., Monticello, Ill. Animal-shelter. No. 988,241; Mar. 28; Sp. p. 5269; Gaz. vol. 164; p. 935.
Bear, William L., Cedar Rapids, Iowa. Animal-check. No. 990,625; Apr. 25; Sp. p. 5063; Gaz. vol. 165; p. 882.
Beard, James W., Merrill, Miss. Rail-joint. No. 986,346; Mar. 7; Sp. p. 1229; Gaz. vol. 164; p. 198.
Beard, Michael A., Pine Bluff, Ark. Saw-set. No. 994,970; June 13; Sp. p. 1931; Gaz. vol. 167; p. 339.
Beard, Paul M., assignor to American Car and Foundry Company, St. Louis, Mo. Car-door. No. 1,008,774; Nov. 14; Sp. p. 2595; Gaz. vol. 172; p. 435.
Beardmore, William, Glasgow, Scotland. Steel alloy. No. 1,007,055; Oct. 31; Sp. p. 5498; Gaz. vol. 171; p. 1016.
Beardslee Chandelier Manufacturing Company. (See Beardslee, George M., assignor.)
Beardslee, George M., assignor to Beardslee Chandelier Manufacturing Company, Chicago, Ill. Collapsible chandelier. No. 1,012,234; Dec. 19; Sp. p. 4140; Gaz. vol. 173; p. 710.
Beardsley, John W., and E. E. Folts, Kane, Pa. Knife. No. 988,068; Mar. 28; Sp. p. 4949; Gaz. vol. 164; p. 878.
Beardsley, Otis L., Chicago, Ill. Compound brace for furniture-legs. No. 1,008,305; Nov. 14; Sp. p. 1474; Gaz. vol. 172; p. 270.
Beardsley, Rufus C., Cleveland, Ohio. Dam. No. 1,002,817; Sept. 12; Sp. p. 1403; Gaz. vol. 170; p. 251.
Beardsley, Walter W., Salem, Oreg. Fertilizer-distributer. No. 993,815; May 30; Sp. p. 6429; Gaz. vol. 166; p. 1158.
Beart, William F., Kinlough, Ireland. Spliced fishing-rod. No. 984,741; Feb. 21; Sp. p. 3236; Gaz. vol. 163; p. 573.
Beasley, Clifford H. and F. G., Smethwick, near Birmingham, and R. H. Bradbury, Oldbury, assignors of one-fourth to Parkinson and W. & B. Cowan Limited, Birmingham, England. Recording gas-calorimeter. No. 987,537; Mar. 21; Sp. p. 3727; Gaz. vol. 164; p. 666.
Beasley, Frederic G. (See McKechnie and Beasley.)
Beasley, Fredric G. (See Beasley and Bradbury.)
Beasley, Fredric G., Smethwick, near Birmingham, assignor of one-half to Parkinson and W. & B. Cowan Limited, Birmingham, England. Regulator for recording gas-calorimeters and analogous instruments. No. 985,722; Feb. 28; Sp. p. 5375; Gaz. vol. 163; p. 942.
Beasley, Green O., Santa Cruz, Cal. Abradant attachment. No. 1,008,775; Nov. 14; Sp. p. 2597; Gaz. vol. 172; p. 436.

Beasley, William F. (See Budesheim and Stinchcomb, assignors.)
Beaton, Allan J., assignor to The Beaton & Bradley Company, New Britain, Conn. Floor and ceiling plate. No. 983,115; Jan. 31; Sp. p. 6449; Gaz. vol. 162; p. 1120.
Beaton, Allan J., assignor to The Beaton and Cadwell Manufacturing Company, New Britain, Conn. Making floor and ceiling plates. No. 1,007,633; Oct. 31; Sp. p. 6778; Gaz. vol. 171; p. 1218.
Beaton & Bradley Company, The. (See Beaton, Allan J., assignor.)
Beaton and Cadwell Manufacturing Company, The. (See Beaton, Allan J., assignor.)
Beattie, Hugh S., Teziutlan, Mexico. Car-fender. No. 993,219; May 23; Sp. p. 5115; Gaz. vol. 166; p. 921.
Beattie, James G. (See Gair, Broderick, and Beattie.)
Beattie, Roy H., Tiverton, R. I. Carrier. No. 992,748; May 23; Sp. p. 4105; Gaz. vol. 166; p. 760.
Beatty, Albert H. C. (See Oblinger, Barrett C., assignor.)
Beatty, Elie A. (See Clanton and Beatty.)
Beatty, George, W. G., and M. J., Fergus, Ontario, Canada. Suspended track and track-hanger. No. 983,262; Feb. 7; Sp. p. 5; Gaz. vol. 163; p. 3.
Beatty, Jean B., New York, N. Y. Light-screen for bedsteads. No. 984,342; Feb. 14; Sp. p. 2364; Gaz. vol. 163; p. 399.
Beatty, John S., Los Angeles, Cal. Register. No. 991,821; May 9; Sp. p. 2138; Gaz. vol. 166; p. 380.
Beatty, Milton J. (See Beatty, George, W. G., and M. J.)
Beatty, William G. (See Beatty, George, W. G., and M. J.)
Beaty, John A. (See Grady, Michael J., assignor.)
Beauchamp, Alexander S., assignor of one-half to J. E. Alsip, Texico, N. Mex. Shearing-machine. No. 980,910; Jan. 10; Sp. p. 1623; Gaz. vol. 162; p. 281.
Beauchamp, Joseph, Montreal, Quebec, Canada. Shoe-pattern. No. 988,541; Apr. 4; Sp. p. 536; Gaz. vol. 165; p. 86.
Beauchesne, Joseph, Jr., Waterville, Me. Hose-coupling. No. 1,012,121; Dec. 19; Sp. p. 3891; Gaz. vol. 173; p. 673.
Beaucoudray, Emile, and E. Stoltz, Covington, La. Electric lamp. No. 990,514; Apr. 25; Sp. p. 4850; Gaz. vol. 165; p. 846.
Beaudette, Telesphore J., Los Angeles, Cal. Wave-motor. No. 982,928; Jan. 31; Sp. p. 6044; Gaz. vol. 162; p. 1058.
Beaudry, Zotique, Lynn, Mass. Edge setting or burnishing machine. No. 1,000,575; Aug. 15; Sp. p. 2929; Gaz. vol. 169; p. 536.
Beaulieu, Léon, Limoges, France. Machine for carroting skins. No. 986,126; Mar. 7; Sp. p. 776; Gaz. vol. 164; p. 126.
Beaulieu, Louis P., and A. O. Bonin, Holyoke, Mass. Utensil for molding meat-cakes. No. 986,127; Mar. 7; Sp. p. 778; Gaz. vol. 164; p. 126.
Beaumont, Edmund F., San Antonio, Tex. Furnace. No. 985,128; Feb. 28; Sp. p. 4003; Gaz. vol. 163; p. 737.
Beaumont, Frederick J., Stroud Green, assignor of one-third to J. W. Rook, London, England, and one-third to H. Neuburger, Furth, Bavaria, Germany. Prepayment-meter. No. 1,008,108; Nov. 7; Sp. p. 992; Gaz. vol. 172; p. 160.
Beauregard, Adelard J., Woonsocket, R. I. Flying-machine. No. 984,258; Feb. 14; Sp. p. 2202; Gaz. vol. 163; p. 372.
Beauregard Agricultural Implement Company. (See Beauregard, Henry T., assignor.)
Beauregard, Henry T., New Orleans, La., assignor to Beauregard Agricultural Implement Company. Cane stripper and topper. No. 990,215; Apr. 25; Sp. p. 4117; Gaz. vol. 165; p. 737.
Beauvais, John B., Holyoke, Mass. Water-heating apparatus. No. 994,562; June 6; Sp. p. 958; Gaz. vol. 167; p. 159.
Beauvais, John B., Holyoke, Mass. Water-heating apparatus. No. 994,563; June 6; Sp. p. 960; Gaz. vol. 167; p. 159.
Beauvais, John B., Holyoke, Mass. Valve apparatus. No. 994,564; June 6; Sp. p. 964; Gaz. vol. 167; p. 159.
Beaver, John N., Jr. (See Beaver, John S., assignor.)
Beaver, John S., assignor of one-fourth to J. N. Beaver, Jr., Entriken, Pa. Water-wheel. No. 985,104; Feb. 21; Sp. p. 3936; Gaz. vol. 163; p. 695.
Beavin, Charles J., *et al.* (See Edgar, George B., Jr., assignor.)
Beavis, Charles, Pineville, Ky. Key-holder. No. 1,007,634; Oct. 31; Sp. p. 6780; Gaz. vol. 171; p. 1219.
Beazley, Joseph O., assignor to The Brush Mop Wringer Manufacturing Company, Baltimore, Md. Combined brush and mop holder. No. 1,001,239; Aug. 22; Sp. p. 4390; Gaz. vol. 169; p. 798.
Bebout, Ferdinand A. and R., and J. R. Inglis, Madison, Ind. Knockdown case. No. 997,894; July 11; Sp. p. 2778; Gaz. vol. 168; p. 474.
Bebout, Robert. (See Bebout and Inglis.)
Bechberger, Frank W., Norwalk, Ohio. Watchmaker's tool. No. 983,018; Jan. 31; Sp. p. 6252; Gaz. vol. 162; p. 1088.

Alphabetical list of patentees—Continued.

Bêché, Jean, Hückeswagen, Germany. Apparatus for making files. No. 1,000,888; Aug. 15; Sp. p. 3598; Gaz. vol. 169; p. 647.
Becher, James A., Chicago, Ill. Die-stock. No. 991,687; May 9; Sp. p. 1869; Gaz. vol. 166; p. 337.
Becher, Otto, Copiague, assignor to American Metal Cap Company, New York, N. Y. Metal-box top. No. 980,743; Jan. 3; Sp. p. 1209; Gaz. vol. 162; p. 194.
Bechman, Henry F., assignor to Duplex Printing Press Company, Battle Creek, Mich. Stereotype-plate-casting apparatus. No. 995,655; June 20; Sp. p. 3413; Gaz. vol. 167; p. 601.
Bechtel, Ernst, assignor to Hanauer Kunstseide-Fabrik G. m. b. H., Hanau, Germany. Manufacturing artificial threads. No. 988,430; Apr. 4; Sp. p. 299; Gaz. vol. 165; p. 50.
Bechtel, Milton W., assignor to The Borden Company, Warren, Ohio. Work-holder for pipe-threading tools. No. 1,007,635; Oct. 31; Sp. p. 6781; Gaz. vol. 171; p. 1219.
Bechtol, William S., Gollad, Tex. Sheep-shears. No. 999,145; July 25; Sp. p. 5549; Gaz. vol. 168; p. 986.
Bechtold, George W., Jersey City, N. J. Automatic fire-extinguisher. No. 992,741; May 16; Sp. p. 4078; Gaz. vol. 166; p. 729.
Bechtold, William S., Newark, N. J. Hair pin or ornament. No. 980,477; Jan. 3; Sp. p. 643; Gaz. vol. 162; p. 106.
Bechtold, William S., Newark, N. J. Puff-barrette. No. 984,343; Feb. 14; Sp. p. 2366; Gaz. vol. 163; p. 400.
Bechtolsheim, Max von, Munich, Germany. Counting device. No. 1,009,886; Nov. 28; Sp. p. 4968; Gaz. vol. 172; p. 897.
Beck, Adolf, New York, N. Y. Waste-plug. No. 984,259; Feb. 14; Sp. p. 2206; Gaz. vol. 163; p. 372.
Beck, Adolf, and E. Angermüller, Coburg, Germany. Apparatus for scouring grain. No. 984,504; Feb. 14; Sp. p. 2694; Gaz. vol. 163; p. 452.
Beck, Adolf, and E. Angermüller, Coburg, Germany. Apparatus for cleaning and damping grain. No. 987,943; Mar. 28; Sp. p. 4669; Gaz. vol. 164; p. 836.
Beck, Charles W., Rockville Center, N. Y. Tool-clamp. No. 993,642; May 30; Sp. p. 6040; Gaz. vol. 166; p. 1097.
Beck, Edgar S., Treichlers, Pa. Apparatus for producing undamped electrical oscillations. No. 999,543; Aug. 1; Sp. p. 697; Gaz. vol. 169; p. 119.
Beck, Edgar S., Treichlers, Pa. Electric-circuit-opening device. No. 999,735; Aug. 8; Sp. p. 1079; Gaz. vol. 169; p. 215.
Beck Flaming Lamp Company, The. (See Hallberg, Josef H., assignor.)
Beck, Frédéric, Neuilly-sur-Seine, France. Rotary motor. No. 998,451; July 18; Sp. p. 4024; Gaz. vol. 168; p. 714
Beck, George C., Spokane, Wash. Facial-massage apparatus. No. 1,007,636; Oct. 31; Sp. p. 6783; Gaz. vol. 171; p. 1219.
Beck & Gregg Hardware Co. (See Parker, William A., assignor.)
Beck, Gustave A. (See Wheeler, Beck, and Hepburn.)
Beck, Henry O., assignor of one-half to W. R. Beck, Atlanta, Ga. Watch-fob. No. 998,452; July 18; Sp. p. 4025; Gaz. vol. 168; p. 715.
Beck, John F., and W. Lindsay, assignors to L. Wolff Manufacturing Company, Chicago, Ill. Electrically-operated sifter. No. 994,109; June 6; Sp. p. 8; Gaz. vol. 167; p. 4.
Beck, Joseph, Two Harbors, Minn. Furnace-grate. No. 984,344; Feb. 14; Sp. p. 2367; Gaz. vol. 163; p. 400.
Beck, Orrien S., Sacramento, Cal. Advertising device for stamping streets or pavements. No. 994,971; June 13; Sp. p. 1932; Gaz. vol. 167; p. 339.
Beck, Otterbein P. (See Bellis, George W., assignor.)
Beck, Paul, Munich, Germany. Range-finder. No. 981,968; Jan. 17; Sp. p. 4028; Gaz. vol. 162; p. 672.
Beck, Stanley, Camden, N. J. Blackboard-compass. No. 985,968; Mar. 7; Sp. p. 456; Gaz. vol. 164; p. 73.
Beck, Walter E., San Francisco, Cal., assignor of one-half to R. McDougall, Westley, Cal. Purse. No. 1,002,554; Sept. 5; Sp. p. 832; Gaz. vol. 170; p. 122.
Beck, William R. (See Beck, Henry O., assignor.)
Becke, Max, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Producing multicolored effects in spun and woven goods. No. 1,002,118; Aug. 29; Sp. p. 6219; Gaz. vol. 169; p. 1124.
Becke, Max, and A. Beil, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Dyeing half-woolen goods. No. 995,431; June 20; Sp. p. 2920; Gaz. vol. 167; p. 521.
Becker, Allen J., assignor to T. H. Griffin, Pittsburg, Pa. Automobile lifting-jack and turn-table. No. 990,096; Apr. 18; Sp. p. 3849; Gaz. vol. 165; p. 666.
Becker, Amalie F., Philadelphia, Pa. Candy-package. No. 982,461; Jan. 24; Sp. p. 5064; Gaz. vol. 162; p. 874.
Becker, Anton, Columbus, Ohio. Dumping-car. No. 995,216; June 13; Sp. p. 2417; Gaz. vol. 167; p. 419.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Underframe for cars. No. 983,263; Feb. 7; Sp. p. 7; Gaz. vol. 163; p. 4.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 995,214; June 13; Sp. p. 2412; Gaz. vol. 167; p. 418.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 995,215; June 13; Sp. p. 2415; Gaz. vol. 167; p. 419.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Car-underframe. No. 999,293; Aug. 1; Sp. p. 189; Gaz. vol. 169; p. 36.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Tank-car. No. 1,004,731; Oct. 3; Sp. p. 398; Gaz. vol. 171; p. 66.
Becker, Anton, assignor to The Ralston Steel Car Company, Columbus, Ohio. Truck-bolster. No. 1,011,310; Dec. 12; Sp. p. 2066; Gaz. vol. 173; p. 353.
Becker, Bernhard G. (See Kennedy, John L., assignor.)
Becker, Charles C., Indianapolis, Ind. Kitchen-cabinet. No. 1,000,142; Aug. 8; Sp. p. 1963; Gaz. vol. 169; p. 353.
Becker, Charles M., and L. L. Brown, Port Rowan, Ontario, Canada. Transparent oven-door. No. 1,010,845; Dec. 5; Sp. p. 995; Gaz. vol. 173; p. 155.
Becker, Ernst O. G., Kiel, Germany. Speed-meter for rotative movement. No. 998,947; July 25; Sp. p. 5161; Gaz. vol. 168; p. 921.
Becker, Frank J., Hamilton, Ohio. Clamping-jacket. No. 985,771; Mar. 7; Sp. p. 7; Gaz. vol. 164; p. 4.
Becker, Fred, Cleveland, Ohio. Apparatus for manufacturing macaroni. No. 1,004,346; Sept. 26; Sp. p. 4747; Gaz. vol. 170; p. 840.
Becker, Frederick J., assignor to Justrite Manufacturing Company, Chicago, Ill. Safety-can for hydrocarbon liquids. No. 986,429; Mar. 14; Sp. p. 1429; Gaz. vol. 164; p. 258.
Becker, Friederich W., New Athens, Ill. Fan attachment for rocking-chairs and cradles. No. 984,462; Feb. 14; Sp. p. 2598; Gaz. vol. 163; p. 439.
Becker, Heinrich. (See Schröder and Becker.)
Becker, Henry, Newport, Ky. Automatic fire-alarm. No. 992,477; May 16; Sp. p. 3552; Gaz. vol. 166; p. 637.
Becker, John, Hyde Park, Mass. Transmission mechanism. No. 1,004,732; Oct. 3; Sp. p. 399; Gaz. vol. 171; p. 67.
Becker, John, National City, and A. Beyer, San Diego, Cal. Hydraulic press. No. 999,087; July 25; Sp. p. 5451; Gaz. vol. 168; p. 970.
Becker, Julius H., San Francisco, assignor of one-half to J. H. King, Oakland, Cal. Liquid-hydrocarbon furnace. No. 989,828; Apr. 18; Sp. p. 3303; Gaz. vol. 165; p. 576.
Becker, Louis B., New York, N. Y. Eyeglasses. No. 1,002,627; Sept. 5; Sp. p. 1005; Gaz. vol. 170; p. 149.
Becker, Robert C., Pittsburgh, Pa. Composite steel bar. No. 1,005,142; Oct. 10; Sp. p. 1214; Gaz. vol. 171; p. 227.
Becker, Theodor, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Solvent for acetyl cellulose. No. 988,965; Apr. 11; Sp. p. 1410; Gaz. vol. 165; p. 250.
Becker & Wade Company. (See Wade, George W., assignor.)
Becker, William H. (See Traves, Webster F., assignor.)
Beckert, Frederick W. (See Greist and Beckert.)
Beckett, Frederick A., New York, N. Y. Pencil-sharpener. No. 992,749; May 23; Sp. p. 4109; Gaz. vol. 166; p. 760.
Beckett, George H., Belleville, N. J. Book-cover. No. 991,934; May 9; Sp. p. 2362; Gaz. vol. 166; p. 419.
Beckett, James A., assignor to Walter A. Wood Mowing and Reaping Machine Company, Hoosick Falls, N. Y. Harvesting-machine. No. 1,004,843; Oct. 3; Sp. p. 644; Gaz. vol. 171; p. 105.
Beckett, John S. (See Evans and Beckett.)
Beckett, Willard F., assignor of one-half to W. Forsaith, Greeley, Colo. Trace attachment for harness. No. 1,003,581; Sept. 19; Sp. p. 3052; Gaz. vol. 170; p. 550.
Beckett, William H., Lanham, Md. Seed-distributer. No. 1,002,800; Sept. 5; Sp. p. 1365; Gaz. vol. 170; p. 208.
Beckham, E. L. (See Brady, James E., assignor.)
Beckham, Margaret E. L., Columbia, S. C. Ironing-board. No. 1,005,798; Oct. 17; Sp. p. 2680; Gaz. vol. 171; p. 492.
Beckman, James W., Chicago, Ill. Cultivator. No. 986,674; Mar. 14; Sp. p. 1948; Gaz. vol. 164; p. 343.
Beckman, John E., Chicago, Ill. Clutch. No. 985,723; Feb. 28; Sp. p. 5378; Gaz. vol. 163; p. 942.
Beckman, John E., Chicago, Ill. Power-transmission mechanism. No. 998,831; July 25; Sp. p. 4882; Gaz. vol. 168; p. 879.
Beckman, John W., Niagara Falls, Canada, assignor to American Cyanamid Company, New York, N. Y. Making a contact mass. No. 1,007,516; Oct. 31; Sp. p. 6519; Gaz. vol. 171; p. 1179.
Beckstrom, Adolf, Lewistown, Mont. Electric incubator and nursery. No. 982,462; Jan. 24; Sp. p. 5065; Gaz. vol. 162; p. 874.
Beckway, George, Chicago, Ill. Plumbing system and fittings therefor. No. 985,969; Mar. 7; Sp. p. 458; Gaz. vol. 164; p. 73.
Bedard, William H. (See McKernan and Bedard.)
Beddoes, Hubert, Philadelphia, Pa. Apparatus for ejecting fluid matter. No. 1,006,822; Oct. 24; Sp. p. 4992; Gaz. vol. 171; p. 883.
Bedell, C. A., *et al.* (See Kenney, Frank, assignor.)
Bedell, Carl E., Warwood, W. Va., assignor of one-half to Wheeling Steel & Iron Company. Furnace-charging apparatus. No. 1,012,235; Dec. 19; Sp. p. 4142; Gaz. vol. 173; p. 711.

Alphabetical list of patentees—Continued.

Bedell, Charles H., assignor to Electro-Dynamic Company, Bayonne, N. J. Dynamo-electric machine. No. 1,010,216; Nov. 28; Sp. p. 5637; Gaz. vol. 172; p. 1009.
Bedell, Richard M., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 989,943; Apr. 18; Sp. p. 3552; Gaz. vol. 165; p. 616.
Bedell, Richard M., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 996,828; July 4; Sp. p. 467; Gaz. vol. 168; p. 77.
Bedell, Stephen D., Hackensack, N. J. Shipping box or case. No. 1,011,724; Dec. 12; Sp. p. 2993; Gaz. vol. 173; p. 499.
Bedford, Frank H. (See Milne and Bedford.)
Bedford, Fred, Stratton, Nebr. Attachment for disk harrows. No. 990,216; Apr. 25; Sp. p. 4120; Gaz. vol. 165; p. 738.
Bedford, Fred, and C. E. Williams, Sleaford, assignors to Cedford Gas Process Company, London, England. Catalytic synthesis of methane. No. 983,199; Jan. 31; Sp. p. 6594; Gaz. vol. 162; p. 1147.
Bedford, Fred, and C. E. Williams, Sleaford, assignors to Cedford Gas Process Company Limited, London, England. Catalytic synthesis of methane. No. 989,755; Apr. 18; Sp. p. 3130; Gaz. vol. 165; p. 551.
Bedford Harrow-Drag Company. (See Mitchell, Wickliff B., assignor.) (Reissue.)
Bedford, William, and R. K. Thumler, New York, N. Y., assignors to Henry and S. G. Lindeman. Player-piano pedal. No. 1,009,634; Nov. 21; Sp. p. 4442; Gaz. vol. 172; p. 765.
Bedier, Victor L., Seattle, Wash. Explosive. No. 981,969; Jan. 17; Sp. p. 4030; Gaz. vol. 162; p. 673.
Bedillion, Leonard, Shreveport, La. Roller boring-drill. No. 1,012,315; Dec. 19; Sp. p. 4305; Gaz. vol. 173; p. 738.
Bednarczuk, Wasyl. (See Czech and Bednarczuk.)
Bedwell, Pleasant, Charleston, Tenn. Thill-coupling. No. 1,000,143; Aug. 8; Sp. p. 1964; Gaz. vol. 169; p. 353.
Beebe, Dillon, Newark, N. J. Faucet-bung. No. 983,019; Jan. 31; Sp. p. 6254; Gaz. vol. 162; p. 1088.
Beebe, Edwin J. (See Eldridge and Beebe.)
Beebe, Frank, assignor of one-fourth to F. W. Krech and one-fourth to A. Brewer, Chicago, Ill., and one-fourth to F. E. Willis. Shoe. No. 993,496; May 30; Sp. p. 5728; Gaz. vol. 166; p. 1046.
Beebe, John D., Detroit, Mich. Fin-forming machine. No. 1,000,144; Aug. 8; Sp. p. 1965; Gaz. vol. 169; p. 354.
Beebe, Norman H. (See Smith and Beebe.)
Beebe, William W., assignor of forty-nine one-hundredths to W. A. Young, Los Angeles, Cal. Fence-post. No. 1,004,969; Oct. 3; Sp. p. 894; Gaz. vol. 171; p. 147.
Beebee, Hoyt, Astoria, N. Y. Marble pool and billiards. No. 1,002,024; Aug. 29; Sp. p. 6049; Gaz. vol. 169; p. 1094.
Beebee, Lewis, Saginaw, Mich. Water-level alarm for boilers. No. 1,006,898; Oct. 24; Sp. p. 5179; Gaz. vol. 171; p. 910.
Beech, Luke P., Wichita, Kans. Furnace-regulator. No. 1,004,970; Oct. 3; Sp. p. 895; Gaz. vol. 171; p. 148.
Beech-Nut Packing Company *et al.* (See Arkell, Bartlett, assignor.)
Beech-Nut Packing Company *et al.* (See Lorenz, William A., assignor.)
Beecher, Titus A., Coalinga, Cal. Calf-wheel reel. No. 1,007,417; Oct. 31; Sp. p. 6298; Gaz. vol. 171; p. 1145.
Beecher, Titus A., Taft, Cal. Combined bull-wheel, tug-wheel, and mounting-reel therefor. No. 1,007,418; Oct. 31; Sp. p. 6299; Gaz. vol. 171; p. 1145.
Beechlyn, John T., Lynn, Mass., assignor to General Electric Company. Cut-out for electrical circuits. No. 993,946; May 30; Sp. p. 6674; Gaz. vol. 166; p. 1201.
Beecroft, Clement, Philadelphia, Pa., assignor to The Tea Tray Company of Newark, N. J. Horn-crane. No. 984,184; Feb. 14; Sp. p. 2006; Gaz. vol. 163; p. 344.
Beede, Herbert G., and E. C. Williams, Pawtucket, R. I. Clutch. No. 999,088; July 25; Sp. p. 5453; Gaz. vol. 168; p. 970.
Beehler, Charles E., assignor of one-half to B. K. Boyd, Owosso, Mich. Device for use in starting coal fires. No. 984,791; Feb. 21; Sp. p. 3348; Gaz. vol. 163; p. 591.
Beehler, William, assignor of one-half to B. K. Boyd, Owosso, Mich. Boring-machine. No. 984,792; Feb. 21; Sp. p. 3349; Gaz. vol. 163; p. 591.
Beekley, Clarence J. (See Brodbeck and Beekley.)
Beekman, John C., Tarpon Springs, Fla. Necktie-fastener. No. 988,966; Apr. 11; Sp. p. 1411; Gaz. vol. 165; p. 250.
Beeman, Edwin R., Minneapolis, Minn., assignor to The Monitor Drill Company. Scraper for disk furrow-openers. No. 997,175; July 4; Sp. p. 1222; Gaz. vol. 168; p. 198.
Beeman, Edwin R., and T. Brennan, Jr., assignors to The Monitor Drill Company, Minneapolis, Minn. Disk furrow-opener. No. 1,001,920; Aug. 29; Sp. p. 5828; Gaz. vol. 169; p. 1060.
Beeman, Estella, *et al.* (See Mead, John W., assignor.)
Beeman, Marcus M., assignor to The Spirella Company, Meadville, Pa. Making garment-stays. No. 1,002,488; Sept. 5; Sp. p. 698; Gaz. vol. 170; p. 102.
Beeman, Marcus M., assignor to The Spirella Company, Meadville, Pa. Machine for making wire corset-stays. No. 1,009,823; Nov. 28; Sp. p. 4851; Gaz. vol. 172; p. 877.
Beeman, William W., and L. H. Graves, Oshkosh, Nebr. Attachment for plows. No. 995,944; June 20; Sp. p. 4035; Gaz. vol. 167; p. 702.
Beerbower, George M., New York, N. Y. Feed-rack. No. 1,005,143; Oct. 10; Sp. p. 1216; Gaz. vol. 171; p. 227.
Beers, Charles F., Newark, N. J. Lock-washer. No. 985,772; Mar. 7; Sp. p. 8; Gaz. vol. 164; p. 4.
Beers, Clarence P., F. C. Randall, and E. V. Whiton, Janesville, Wis.; said Randall assignor to said Beers and Whiton. Apparatus for filling fountain-pens. No. 1,003,169; Sept. 12; Sp. p. 2172; Gaz. vol. 170; p. 372.
Beers, Edmund O., Elmira, N. Y. Chair. No. 1,001,240; Aug. 22; Sp. p. 4393; Gaz. vol. 169; p. 799.
Beers, Frederic C. (See Beers, Ira F. and F. C.)
Beers, Harry F., assignor of one-fifth to J. B. Faulke, one-fifth to J. Seim, and one-fifth to M. M. Marsh, New York, N. Y. Mop-wringer. No. 1,002,362; Sept. 5; Sp. p. 431; Gaz. vol. 170; p. 60.
Beers, Ira F. and F. C., Rochester, N. Y. Thermostat. No. 1,000,661; Aug. 15; Sp. p. 3129; Gaz. vol. 169; p. 567.
Beese, Otto, Alton, Ill. Transmission-gear. No. 986,347; Mar. 7; Sp. p. 1231; Gaz. vol. 164; p. 199.
Beeson, John S., assignor of one-half to H. Negus, Iowa City, Iowa. Rotary engine. No. 997,895; July 11; Sp. p. 2779; Gaz. vol. 168; p. 475.
Beetham, Thomas J., Newark, N. J., assignor to The Tea Tray Company of Newark, N. J. Fire-extinguisher. No. 1,004,971; Oct. 3; Sp. p. 898; Gaz. vol. 171; p. 148.
Beevers, Thomas, assignor to The Safety Tread Syndicate Limited, London, England. Staircase. No. 996,903; July 4; Sp. p. 633; Gaz. vol. 168; p. 103.
Begg, Roderick, New York, N. Y., assignor of one-half to H. R. Tudhope, Orillia, Canada. Railway-spike. No. 991,688; May 9; Sp. p. 1871; Gaz. vol. 166; p. 338.
Beggs, John M., Crafton, Pa. Stop and waste cock. No. 994,110; June 6; Sp. p. 12; Gaz. vol. 167; p. 5.
Begier, Detley, Cheyenne, Okla. Spring-trap. No. 1,006,048; Oct. 17; Sp. p. 3243; Gaz. vol. 171; p. 580.
Behlen, Charles A., Franklin, Va. Axle-coupling for vehicles. No. 1,010,217; Nov. 28; Sp. p. 5639; Gaz. vol. 172; p. 1009.
Behlert, Charles L. (See Adler, Jette, assignor.)
Behlke, Edward E. (See Hildebrand, Herman E., assignor.)
Behm, Walther, assignor to A. Schuler, New York, N. Y. Reversible handle. No. 986,796; Mar. 14; Sp. p. 2200; Gaz. vol. 164; p. 383.
Behnke, Albert R., St. Paul, Minn. Demountable rim. No. 981,740; Jan. 17; Sp. p. 3487; Gaz. vol. 162; p. 591.
Behr, Bernhard, Dresden, Germany. Stepped roller for Thomas calculating-machines. No. 988,069; Mar. 28; Sp. p. 4950; Gaz. vol. 164; p. 878.
Behr, Gustavus E., Jr., Brooklyn, N. Y. Coke-oven. No. 996,829; July 4; Sp. p. 468; Gaz. vol. 168; p. 77.
Behr, Hans C., Johannesburg, Transvaal. Stamp-actuating means. No. 1,012,187; Dec. 19; Sp. p. 4033; Gaz. vol. 173; p. 694.
Behr, Hans C., Johannesburg, Transvaal. Clutch mechanism for winding or hauling engines. No. 1,012,188; Dec. 19; Sp. p. 4034; Gaz. vol. 173; p. 695.
Behr, Rudolf, Kolberg, Germany. Bow-facing car. No. 981,361; Jan. 10; Sp. p. 2717; Gaz. vol. 162; p. 441.
Behrend, Bernard A., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 1,000,066; Aug. 8; Sp. p. 1772; Gaz. vol. 169; p. 327.
Behrend, Bernard A., and A. B. Field, Pittsburg, Pa., assignors to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 982,784; Jan. 31; Sp. p. 5721; Gaz. vol. 162; p. 1009.
Behrend, Samuel K., Denver, Colo. Ore-concentrator. No. 982,785; Jan. 31; Sp. p. 5723; Gaz. vol. 162; p. 1010.
Behrend, Samuel K., Denver, Colo. Dry concentrator. No. 983,803; Feb. 7; Sp. p. 1164; Gaz. vol. 163; p. 186.
Behringer, Emil and H., Brooklyn, N. Y. Automobile-radiator cooling-tube. No. 989,756; Apr. 18; Sp. p. 3131; Gaz. vol. 165; p. 551.
Behringer, Emil and H., Brooklyn, N. Y. Radiator element. No. 997,949; July 18; Sp. p. 2916; Gaz. vol. 168; p. 535.
Behringer, Herman. (See Behringer, Emil and H.)
Behrmann, Georg J. K., and E. Hurlbrink, Kiel, assignors to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Conning-tower for submarine and diving vessels. No. 1,011,012; Dec. 5; Sp. p. 1338; Gaz. vol. 173; p. 213.
Beidl, Pius, Vienna, Austria-Hungary. Steering apparatus for flying-machines. No. 997,733; July 11; Sp. p. 2379; Gaz. vol. 168; p. 418.
Beier, Otto, Dixon, Ill. Dough-conveying apparatus. No. 983,669; Feb. 7; Sp. p. 894; Gaz. vol. 163; p. 142.
Beige, Heinrich O., Halle-on-the-Saale, Germany. Incandescent-electric-lamp or like holder. No. 992,636; May 16; Sp. p. 3883; Gaz. vol. 166; p. 692.

Alphabetical list of patentees—Continued.

Beighler, E. B., *et al.* (See Cunningham, Edward R., assignor.)
Beil, Albert. (See Becke and Beil.)
Beilis, Israel, San Francisco, Cal. Clamp. No. 998,453; July 18; Sp. p. 4026; Gaz. vol. 168; p. 715.
Bein, Emile J., Newark, N. J. Surfacing-machine. No. 981,159; Jan. 10; Sp. p. 2240; Gaz. vol. 162; p. 370.
Bein, William A., assignor to B. Shoninger Co., New Haven, Conn. Center panel for upright player-pianos. No. 991,822; May 9; Sp. p. 2139; Gaz. vol. 166; p. 381.
Beissel, Ignaz, Aix-la-Chapelle, Germany. Cutting-machine. No. 1,000,959; Aug. 15; Sp. p. 3751; Gaz. vol. 169; p. 670.
Beitman, Albert B., East Cleveland, Ohio. Wind-shield cleaner. No. 993,816; May 30; Sp. p. 6430; Gaz. vol. 166; p. 1159.
Bek, Ernst, Schaffhausen, Switzerland. Preparation of flax fibers. No. 1,004,136; Sept. 26; Sp. p. 4332; Gaz. vol. 170; p. 770.
Bek, Firm of Ernst G. (See Dollinger, Richard, assignor.)
Bek, Firm of Ernst G. (See Dollinger and Bischoff, assignors.)
Bekker, Ludwig, Aberdeen, S. D. Wrench. No. 985,129; Feb. 28; Sp. p. 4005; Gaz. vol. 163; p. 738.
Beland, Joe H. (See Willis and Beland.)
Belanger, John D., Chicago, Ill. Oil-press. No. 981,970; Jan. 17; Sp. p. 4031; Gaz. vol. 162; p. 673.
Belanger, Severen, Provemont, Mich. Rail-splice. No. 1,006,899; Oct. 24; Sp. p. 5182; Gaz. vol. 171; p. 910.
Belair, Isaie. (See Guindon, Jean B. A., assignor.)
Belcher, Frederick J. (See Livingston, Charles A., assignor.)
Belcher, Osmond T., Los Angeles, Cal. Aeroplane. No. 1,005,127; Oct. 10; Sp. p. 1182; Gaz. vol. 171; p. 222.
Belcher, Ralph, Los Angeles, Cal. Buckle device. No. 1,002,489; Sept. 5; Sp. p. 700; Gaz. vol. 170; p. 102.
Beldam, Asplan, Baldock, England. Vehicle-tire. No. 1,011,013; Dec. 5; Sp. p. 1340; Gaz. vol. 173; p. 213.
Beldam, Cyril A. (See Robinson, George H., assignor.)
Belden Manufacturing Company. (See Hoffstrom, Otto, assignor.)
Belding Brothers & Company. (See Egerton, Ottie C., assignor.)
Belgau, Chris J., *et al.* (See Bryant, William A., assignor.)
Belgoder, Angel, Mexico, Mexico. Safety-coupling for electric conductors. No. 987,036; Mar. 14; Sp. p. 2677; Gaz. vol. 164; p. 463.
Belk, Edgar. (See Eddy, Gerald A., assignor.)
Belknap, Ellsworth H., and J. W. Swartz, assignors to Golden, Belknap and Swartz Company, Detroit, Mich. Explosive-engine. No. 1,007,842; Nov. 7; Sp. p. 459; Gaz. vol. 172; p. 68.
Belknap, Gardner A., Conneautville, Pa. Rail tie and fastener. No. 996,306; June 27; Sp. p. 4866; Gaz. vol. 167; p. 858.
Belknap, Robert E. (See Kerwin, John, assignor.)
Belknap, William D. (See Mayle, Murdock, and Belknap.)
Bell, Alexander G., Washington, D. C., F. W. Baldwin, Toronto, Ontario, A. D. McCurdy, Baddeck, Nova Scotia, Canada, G. H. Curtiss, Hammondsport, N. Y., and E. A. Selfridge, San Francisco, Cal., administrator of T. E. Selfridge, deceased, assignors to C. J. Bell, trustee, Washington, D. C. Flying-machine. No. 1,011,106; Dec. 5; Sp. p. 1550; Gaz. vol. 173; p. 246.
Bell, Andrew L., and F. J. Ebert, Braddock, Pa. Door-holding means. No. 989,108; Apr. 11; Sp. p. 1717; Gaz. vol. 165; p. 299.
Bell, Arthur, Jersey City, N. J. Box-lid. No. 1,000,960; Aug. 15; Sp. p. 3753; Gaz. vol. 169; p. 670.
Bell Brothers. (See Johnson, Walter L., assignor.)
Bell, Charles A., Dickey, N. D. Grain-door. No. 1,009,128; Nov. 21; Sp. p. 3336; Gaz. vol. 172; p. 590.
Bell, Charles E., assignor to The C. S. Bell Co., Hillsboro, Ohio. Grinding-mill. No. 1,009,887; Nov. 28; Sp. p. 4970; Gaz. vol. 172; p. 898.
Bell, Charles J., trustee. (See Baldwin, Frederick W., assignor.)
Bell, Charles J., trustee. (See Bell, Baldwin, McCurdy, Curtiss, and Selfridge, assignors.)
Bell, Charles W., Bartlesville, Okla. Pump for oil and like wells. No. 991,600; May 9; Sp. p. 1670; Gaz. vol. 166; p. 306.
Bell, Clinton W., Brownhelm, Ohio. Mail-bag-exchanging apparatus. No. 989,320; Apr. 11; Sp. p. 2187; Gaz. vol. 165; p. 372.
Bell Co., C. S. (See Bell, Charles E., assignor.)
Bell, Cuba E., Laporte, Ind. Sheet-music turner. No. 987,538; Mar. 21; Sp. p. 3732; Gaz. vol. 164; p. 667.
Bell, Cyrus, Taft, assignor of one-half to E. Double, Los Angeles, Cal. Rotary drilling-rig. No. 997,035; July 4; Sp. p. 947; Gaz. vol. 168; p. 151.
Bell, Dillwyn M., Oak Park, assignor to W. J. Anderson and G. F. Lewis, Chicago, Ill. Speedometer. No. 1,004,347; Sept. 26; Sp. p. 4750; Gaz. vol. 170; p. 840.
Bell, Edwin H., Chicago, Ill. Tie-plate. No. 1,001,921; Aug. 29; Sp. p. 5831; Gaz. vol. 169; p. 1061.
Bell, Edwin J., Oshkosh, Wis. Machine for building up boards from pieces. No. 990,829; May 2; Sp. p. 2; Gaz. vol. 166; p. 3.
Bell, Elizabeth W., Norwood, Pa., assignor, by mesne assignments, to Belle Novelty Company. Doll-frame. No. 1,002,363; Sept. 5; Sp. p. 433; Gaz. vol. 170; p. 60.
Bell, Ernest E., Glen Ridge, N. J., assignor to Concealed Transom Lift Company. Transom-lift. No. 983,474; Feb. 7; Sp. p. 469; Gaz. vol. 163; p. 74.
Bell, Fred C. (See Vinzent and Bell.)
Bell, Harcourt. (See Davies and Bell.)
Bell, Harmon, *et al.* (See Loftus, Thomas J., assignor.)
Bell, Harvey H., Nevada, Iowa. Farm-gate. No. 998,739; July 25; Sp. p. 4686; Gaz. vol. 168; p. 848.
Bell, Ira C., Pittsburgh, Pa. Automatically-operated electric switch. No. 1,012,798; Dec. 26; Sp. p. 5332; Gaz. vol. 173; p. 949.
Bell, Isaac A., Ottumwa, Iowa. Photographic camera. No. 999,949; Aug. 8; Sp. p. 1519; Gaz. vol. 169; p. 287.
Bell, James D., Paris, Ky. Lock-nut. No. 998,151; July 18; Sp. p. 3363; Gaz. vol. 168; p. 607.
Bell, James H., Philadelphia, Pa. Roofing-cleat. No. 981,362; Jan. 10; Sp. p. 2719; Gaz. vol. 162; p. 441.
Bell, James H., Philadelphia, Pa. Roofing-cleat. No. 985,501; Feb. 28; Sp. p. 4883; Gaz. vol. 163; p. 866.
Bell, John, Seattle, Wash. Combined washing-machine and clothes-boiler. No. 1,010,570; Dec. 5; Sp. p. 377; Gaz. vol. 173; p. 59.
Bell, John E., assignor to The Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. No. 984,880; Feb. 21; Sp. p. 3507; Gaz. vol. 163; p. 620.
Bell, John P., and G. D. Schlanger, Weir, Kans. Garment-hanger. No. 982,120; Jan. 17; Sp. p. 4334; Gaz. vol. 162; p. 723.
Bell, John W., Montreal, Quebec, Canada. Concentrating process. No. 987,689; Mar. 28; Sp. p. 4074; Gaz. vol. 164; p. 748.
Bell, Joseph M., Frankfort, assignor of one-fourth to F. E. Eichelberger, Washington Court-House, Ohio. Oil-burner. No. 991,935; May 9; Sp. p. 2363; Gaz. vol. 166; p. 419.
Bell, Keller J., Des Moines, Iowa. Door-latch for silos. No. 993,289; May 23; Sp. p. 5251; Gaz. vol. 166; p. 942.
Bell, Lorenzo D., Moorman, Ky. Clevis. No. 1,001,241; Aug. 22; Sp. p. 4394; Gaz. vol. 169; p. 799.
Bell, Nannie E., Wathena, Kans. Photo-cover. No. 1,006,049; Oct. 17; Sp. p. 3244; Gaz. vol. 171; p. 581.
Bell, Orvel, *et al.* (See Loop, Warren L., assignor.)
Bell, Robert A., and J. B. McKiel, assignors of one-fourth to J. Fink and one-fourth to H. E. Reinheimer, Marshall, Tex. Headlight. No. 996,745; July 4; Sp. p. 289; Gaz. vol. 168; p. 50.
Bell, Stuart E., assignor of one-half to G. W. Frey, Los Angeles, Cal. Railway-spike. No. 990,217; Apr. 25; Sp. p. 4122; Gaz. vol. 165; p. 738.
Bell, Stuart E., assignor of one-half to G. W. Frey, Los Angeles, Cal. Bottle-closure. No. 1,007,056; Oct. 31; Sp. p. 5499; Gaz. vol. 171; p. 1016.
Bell, Thomas, Clydebank, Scotland, assignor to General Electric Company. Elastic-fluid turbine. No. 1,006,714; Oct. 24; Sp. p. 4735; Gaz. vol. 171; p. 843.
Bell, Walter J., Atlanta, Ga. Railway-tie. No. 994,902; June 13; Sp. p. 1794; Gaz. vol. 167; p. 316.
Bell, Walter J., assignor to Los Angeles Switch and Signal Company, Los Angeles, Cal. Electric block-signal system. No. 1,008,521; Nov. 14; Sp. p. 2021; Gaz. vol. 172; p. 345.
Bell, Walter J., assignor to Los Angeles Switch and Signal Company, Los Angeles, Cal. Railway-switch signal. No. 1,008,938; Nov. 14; Sp. p. 2922; Gaz. vol. 172; p. 488.
Bell, Walter J., assignor to Los Angeles Switch & Signal Company, Los Angeles, Cal. Electric signal-actuating mechanism. No. 1,009,015; Nov. 14; Sp. p. 3095; Gaz. vol. 172; p. 515.
Bell, William, Plashetts, North Tyne, England. Driving-gearing. No. 987,539; Mar. 21; Sp. p. 3734; Gaz. vol. 164; p. 667.
Bellamy, Charles H., Philadelphia, Pa., assignor to Concrete & Clay Products Company. Ornamental tile. No. 982,029; Jan. 17; Sp. p. 4152; Gaz. vol. 162; p. 692.
Belle Novelty Company. (See Bell, Elizabeth W., assignor.)
Bellefeuil, Jesse H., Wilson, Mich. Detachable blind. No. 1,010,218; Nov. 28; Sp. p. 5640; Gaz. vol. 172; p. 1009.
Bellhouse, Thomas F., Sacramento, Cal. Car-brake-leverage adjustment. No. 993,947; May 30; Sp. p. 6676; Gaz. vol. 166; p. 1201.
Bellingham, Benjamin. (See Richards and Bellingham.)
Bellingrath, Leonard F., Atlanta, Ga. Valve operating and indicating mechanism. No. 1,003,131; Sept. 12; Sp. p. 2085; Gaz. vol. 170; p. 359.
Bellini, Joseph, New Haven, Conn. Ice-cream cutting and wrapping machine. No. 983,421; Feb. 7; Sp. p. 341; Gaz. vol. 163; p. 58.
Bellis, George W., assignor of one-half to O. P. Beck, Galion, Ohio. Burial-vault. No. 995,519; June 20; Sp. p. 3104; Gaz. vol. 167; p. 552.
Belliveau, Peter F. D., East Long Meadow, Mass. Auto-sleigh. No. 982,344; Jan. 24; Sp. p. 4794; Gaz. vol. 162; p. 830.

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Bellmann, Henry, Cincinnati, and H. Middendorf, Elmwood Place, Ohio. Fire-escape. No. 994,239; June 6; Sp. p. 290; Gaz. vol. 167; p. 50.
Bellows, Benjamin F., Cleveland, Ohio, assignor to Electric Compositor Company, New York, N. Y. Type-mold. No. 1,002,959; Sept. 12; Sp. p. 1742; Gaz. vol. 170; p. 302.
Bellows, Winfield S., Steelton, Pa. Valve. No. 995,110; June 13; Sp. p. 2218; Gaz. vol. 167; p. 386.
Belluzzo, Giuseppe, Milan, Italy. Steam-turbine. No. 1,003,321; Sept. 12; Sp. p. 2487; Gaz. vol. 170; p. 428.
Bellville, Lloyd L. (See Bellville, William R. and L. L.)
Bellville, William R., Wyandotte, and L. L. Bellville, Detroit, Mich. Aeroplane. No. 983,868; Feb. 14; Sp. p. 1335; Gaz. vol. 163; p. 239.
Bellwood, E. C. (See Thurston, Thomas O., assignor.)
Belodeau, Peter, and L. Trudeau, Pittsfield, Mass. Attachment for washboilers. No. 982,565; Jan. 24; Sp. p. 5260; Gaz. vol. 162; p. 907.
Belok, Fredie. (See Belok, Solomon, assignor.)
Belok, Solomon, assignor of one-half to F. Belok, Brooklyn, N. Y. Worsted fabric. No. 998,454; July 18; Sp. p. 4027; Gaz. vol. 168; p. 715.
Belser, Joseph H., Kane, Pa. Rod-catcher. No. 1,006,900; Oct. 24; Sp. p. 5183; Gaz. vol. 171; p. 911.
Belsvig, Ole T., Milan, Minn. Swinging latch. No. 1,006,347; Oct. 17; Sp. p. 3924; Gaz. vol. 171; p. 685.
Beltran, Francis A., Chicago, Ill. Pool game. No. 984,463; Feb. 14; Sp. p. 2599; Gaz. vol. 163; p. 439.
Bement, Frank, Shrewsbury, Mass. Garment-hanger. No. 990,515; Apr. 25; Sp. p. 4852; Gaz. vol. 165; p. 846.
Benbough, Percy J., *et al.* (See Silva, Claude L., assignor.)
Benda, Louis. (See Ehrlich and Benda.)
Bendel, Henri, New York, N. Y. Hat. No. 1,005,682; Oct. 10; Sp. p. 2455; Gaz. vol. 171; p. 421.
Bender, Adolph A., Cheyenne, Wyo. Plaster-board machine. No. 1,003,322; Sept. 12; Sp. p. 2490; Gaz. vol. 170; p. 429.
Bender, Albert, McKeesport, Pa. Stretching and drying frame. No. 984,881; Feb. 21; Sp. p. 3508; Gaz. vol. 163; p. 621.
Bender, Alfred and W., Newark, N. J. Wrench. No. 1,003,975; Sept. 26; Sp. p. 3924; Gaz. vol. 170; p. 712.
Bender, Anna C., executrix. (See Bender, George J.)
Bender, Cyrenus K. (See Spaulding and Bender.)
Bender, George J., deceased; A. C. Bender, executrix, Galena, Ill., assignor to J. G. Chalmers, Dubuque, Iowa. Road-scraper. No. 998,740; July 25; Sp. p. 4688; Gaz. vol. 168; p. 848.
Bender, Oscar, Potsdam, Germany. Manufacturing oxids of nitrogen. No. 1,011,014; Dec. 5; Sp. p. 1341; Gaz. vol. 173; p. 214.
Bender, Robert C., St. Louis, Mo. Refrigerator display-case. No. 980,911; Jan. 10; Sp. p. 1625; Gaz. vol. 162; p. 282.
Bender, Robert L., New Cumberland, W. Va. Rail-joint. No. 998,832; July 25; Sp. p. 4886; Gaz. vol. 168; p. 879.
Bender, William. (See Bender, Alfred and W.)
Bender, William H., and R. F. Downey, Milwaukee, Wis. Measuring vessel. No. 987,211; Mar. 21; Sp. p. 3073; Gaz. vol. 164; p. 557.
Bending, William P., Los Angeles, Cal. Treating oils. No. 998,670; July 25; Sp. p. 4511; Gaz. vol. 168; p. 823.
Bendle, Sutton, D. I. Smith, and T. B. H. Thorne, assignors to Bendle's Meat Port Syndicate Limited, London, England. Nourishing alcoholic beverage and manufacturing same. No. 996,199; June 27; Sp. p. 4623; Gaz. vol. 167; p. 825.
Bendle's Meat Port Syndicate Limited. (See Bendle, Smith, and Thorne, assignors.)
Bendt, John F. C., Baltimore, Md. Automatic-alarm drip-pan. No. 997,230; July 4; Sp. p. 1330; Gaz. vol. 168; p. 217.
Benedetti, Almerindo. (See Domenico and Benedetti.)
Benedetti, Fred, and A. Stella, Black Diamond, Wash. Miner's safety-lamp tester. No. 1,004,348; Sept. 26; Sp. p. 4755; Gaz. vol. 170; p. 841.
Benedict, Austin, Merrill, Wis. Grab-hook. No. 1,007,637; Oct. 31; Sp. p. 6784; Gaz. vol. 171; p. 1220.
Benedict, Charles R., Kansas City, Mo., assignor to American Can Company, New York, N. Y. Bail-ear-attaching machine. No. 1,003,691; Sept. 19; Sp. p. 3296; Gaz. vol. 170; p. 590.
Benedict, M., *et al.* (See Sale, John H., assignor.)
Benedictis, Tommaso de, assignor of one-half to F. C. Amoroso, San Francisco, Cal. Fume-condenser. No. 991,823; May 9; Sp. p. 2141; Gaz. vol. 166; p. 381.
Benefield, Chauncey R., Memphis, Tenn. Cotton cleaner and separator. No. 1,011,015; Dec. 5; Sp. p. 1343; Gaz. vol. 173; p. 214.
Benfield, Daniel S., near Fairburn, Ga. Back-band hook. No. 997,363; July 11; Sp. p. 1615; Gaz. vol. 168; p. 292.
Bengough, James. (See Wilson and Bengough.)
Bengough, James, assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Delivery mechanism for printing-presses. No. 992,330; May 16; Sp. p. 3227; Gaz. vol. 166; p. 586.
Bengs, Gustav, Fort Wayne, Ind. Sterilizing apparatus. No. 999,294; Aug. 1; Sp. p. 191; Gaz. vol. 169; p. 36.
Bengtson, Daniel V., New York, N. Y. Rope-holder. No. 994,089; May 30; Sp. p. 6966; Gaz. vol. 166; p. 1249.
Bengtsson, Ernst B., Stockholm, Sweden. Military intrenching-tool. No. 993,015; May 23; Sp. p. 4689; Gaz. vol. 166; p. 855.
Benham, Elijah B., New London, Conn., assignor to Hydrocarbon Converter Company, New York, N. Y. Process of and apparatus for making gas. No. 1,000,768; Aug. 15; Sp. p. 3345; Gaz. vol. 169; p. 604.
Benham, Joseph M., and G. W. Slater, Oakland, Cal. Tire. No. 1,008,688; Nov. 14; Sp. p. 2401; Gaz. vol. 172; p. 405.
Benham, Rubie R., and L. W. Milliman, Warsaw, N. Y. Seat attachment for machines. No. 1,011,725; Dec. 12; Sp. p. 2994; Gaz. vol. 173; p. 499.
Benincasa, Nicholas, Pittsburg, Pa. Pay-on-the-platform car. No. 998,069; July 18; Sp. p. 3184; Gaz. vol. 168; p. 578.
Bening, Harriss L. (See Horn and Bening.)
Benjamin, Albert W., Yarker, Ontario, Canada. Automobile. No. 980,185; Jan. 3; Sp. p. 16; Gaz. vol. 162; p. 5.
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Tempering-tank. No. 993,497; May 30; Sp. p. 5729; Gaz. vol. 166; p. 1046.
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Grain-binder. No. 994,711; June 13; Sp. p. 1316; Gaz. vol. 167; p. 250.
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Treating the finger-bars for mowers. No. 995,432; June 20; Sp. p. 2922; Gaz. vol. 167; p. 521.
Benjamin, Bert R., Oak Park, and W. Webber, Berwyn, Ill. Mowing-machine. No. 995,398; June 13; Sp. p. 2828; Gaz. vol. 167; p. 481.
Benjamin Eastwood Company. (See Adsit, George, assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin Electric Manufacturing Company. (See Weeks, Nelson, assignor.)
Benjamin Fox Incorporated. (See Fox and Wilson, assignors.)
Benjamin, George C. and J. F., Barre, Vt. Axle-lubricator. No. 1,004,972; Oct. 3; Sp. p. 901; Gaz. vol. 171; p. 149.
Benjamin, George H. (See Twitchell, Donn I., assignor.)
Benjamin, George W. (See Zimmer and Benjamin.)
Benjamin, John F. (See Benjamin, George C. and J. F.)
Benjamin, Joseph E., assignor to Commercial Register Company, Rochester, N. Y. Bill-file. No. 987,944; Mar. 28; Sp. p. 4671; Gaz. vol. 164; p. 836.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cluster lamp-socket. No. 980,912; Jan. 10; Sp. p. 1627; Gaz. vol. 162; p. 282.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cluster lamp-socket. No. 980,913; Jan. 10; Sp. p. 1631; Gaz. vol. 162; p. 283.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Reflector-socket. No. 981,240; Jan. 10; Sp. p. 2458; Gaz. vol. 162; p. 399.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Weatherproof plural lamp-socket. No. 981,241; Jan. 10; Sp. p. 2459; Gaz. vol. 162; p. 399.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp socket. No. 981,242; Jan. 10; Sp. p. 2463; Gaz. vol. 162; p. 400.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Canopy-switch. No. 982,345; Jan. 24; Sp. p. 4797; Gaz. vol. 162; p. 831.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lamp-socket. No. 987,690; Mar. 28; Sp. p. 4079; Gaz. vol. 164; p. 749.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Attachment-plug. No. 988,298; Apr. 4; Sp. p. 7; Gaz. vol. 165; p. 4.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Current-tap. No. 990,418; Apr. 25; Sp. p. 4612; Gaz. vol. 165; p. 811.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Current-tap. No. 990,419; Apr. 25; Sp. p. 4615; Gaz. vol. 165; p. 812.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Current-tap. No. 990,420; Apr. 25; Sp. p. 4618; Gaz. vol. 165; p. 812.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-lamp cluster. No. 996,963; July 4; Sp. p. 763; Gaz. vol. 168; p. 124.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Shock-absorber for lighting devices. No. 1,004,137; Sept. 26; Sp. p. 4333; Gaz. vol. 170; p. 770.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric switch. No. 1,005,926; Oct. 17; Sp. p. 2983; Gaz. vol. 171; p. 539.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plural-lamp socket. No. 1,007,419; Oct. 31; Sp. p. 6301; Gaz. vol. 171; p. 1146.

Alphabetical list of patentees—Continued.

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Outlet-box. No. 1,007,420; Oct. 31; Sp. p. 6303; Gaz. vol. 171; p. 1146.
Benkert, August, *et al.* (See Marcy, Herbert E., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Attachment-plug. No. 1,012,970; Dec. 26; Sp. p. 5734; Gaz. vol. 173; p. 1007.
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical conductor-grip. No. 1,012,971; Dec. 26; Sp. p. 5739; Gaz. vol. 173; p. 1007.
Benkö, Stephan, assignor to Company Limited for Exploitation of Inventions by Stephan Benkö, Budapest, Austria-Hungary. Carbon electrode for galvanic elements. No. 1,011,559; Dec. 12; Sp. p. 2615; Gaz. vol. 173; p. 442.
Bennecke, Henry C., Chicago, Ill. Railway signaling system. No. 994,814; June 13; Sp. p. 1562; Gaz. vol. 167; p. 286.
Bennehoff, James D., Alfred, N. Y. Water-distilling apparatus. No. 1,011,016; Dec. 5; Sp. p. 1345; Gaz. vol. 173; p. 214.
Benner, Homer C., Lancaster, Pa. Seesaw. No. 995,433; June 20; Sp. p. 2922; Gaz. vol. 167; p. 521.
Benner, Nathan W., Mahanoy City, Pa. Target-trap. No. 985,651; Feb. 28; Sp. p. 5189; Gaz. vol. 163; p. 918.
Benneson, Cora A. (See Newcomb, Harry H., assignor.)
Bennet, Ella J., assignor of one-half to C. A. Allshouse, Chicago, Ill. Skirt-measuring device. No. 1,003,692; Sept. 19; Sp. p. 3299; Gaz. vol. 170; p. 590.
Bennet, Harold W., Evanston, Ill. Pocket bridge-score. No. 986,675; Mar. 14; Sp. p. 1950; Gaz. vol. 164; p. 344.
Bennet, John F., London, England. Calendar. No. 982,233; Jan. 24; Sp. p. 4553; Gaz. vol. 162; p. 792.
Bennett, Abijah B., Opelika, Ala. Baling-press. No. 1,002,213; Sept. 5; Sp. p. 35; Gaz. vol. 170; p. 4.
Bennett, Abijah B., Opelika, Ala. Operating mechanism for baling-presses. No. 1,005,144; Oct. 10; Sp. p. 1217; Gaz. vol. 171; p. 228.
Bennett, Charles F., Bridgeport, Conn. Making steam-boiler nozzles. No. 982,463; Jan. 24; Sp. p. 5067; Gaz. vol. 162; p. 874.
Bennett, Charles S., Newport News, Va. Car-coupling. No. 1,003,323; Sept. 12; Sp. p. 2494; Gaz. vol. 170; p. 429.
Bennett, Clark, A. and J. E. Sharp, Munhall, Pa. Collapsible core. No. 1,002,119; Aug. 29; Sp. p. 6220; Gaz. vol. 169; p. 1124.
Bennett, David E., assignor of one-third to G. W. Watters and two-thirds to H. McGoughran, Rochester, N. Y. Shock-absorber for vehicles. No. 995,995; June 20; Sp. p. 4132; Gaz. vol. 167; p. 719.
Bennett, Ebenezer. (See Parsons, Stoney, and Bennett.)
Bennett, Edgar. (See Hackney, William F., assignor.)
Bennett, Erastus S., New York, N. Y. Magnetic separator. No. 999,736; Aug. 8; Sp. p. 1080; Gaz. vol. 169; p. 215.
Bennett, Erastus S., New York, N. Y., assignor to Continental Engineering Company. Screw-pump. No. 1,012,504; Dec. 19; Sp. p. 4670; Gaz. vol. 173; p. 802.
Bennett, Fred E., Los Angeles, Cal., assignor to Phoenix Combination Lock Company, Phoenix, Ariz. Lock. No. 1,000,889; Aug. 15; Sp. p. 3600; Gaz. vol. 169; p. 647.
Bennett, George M., Kenosha, Wis. Bucket. No. 989,688; Apr. 18; Sp. p. 2996; Gaz. vol. 165; p. 527.
Bennett, Harrey H., Rockford, assignor of one-half to P. C. Seegmueller, Moline, Ill. Drill. No. 1,000,067; Aug. 8; Sp. p. 1775; Gaz. vol. 169; p. 327.
Bennett, Henderson H., Morley, Tenn. Dumping apparatus for coal-cars. No. 1,002,628; Sept. 5; Sp. p. 1006; Gaz. vol. 170; p. 149.
Bennett, James, administrator. (See Crumpton, Charles.)
Bennett, James C., Detroit, Mich. Feed-water purifier, heater, and circulator. No. 998,741; July 25; Sp. p. 4690; Gaz. vol. 168; p. 849.
Bennett, Joseph J., Pittsfield, Mass. Trolley-head. No. 1,004,618; Oct. 3; Sp. p. 155; Gaz. vol. 171; p. 27.
Bennett, Josiah Q., Cambridge, assignor to Boston Brick Company, Boston, Mass. Burning brick. No. 988,299; Apr. 4; Sp. p. 10; Gaz. vol. 165; p. 4.
Bennett, Josiah Q., and R. A. Parry, Cambridge, assignors to Boston Brick Company, Boston, Mass. Brick-kiln. No. 986,128; Mar. 7; Sp. p. 778; Gaz. vol. 164; p. 126.
Bennett, Mary L. (See Crumpton, Charles, assignor.)
Bennett, Orville. (See Spencer and Bennett.)
Bennett, Richard H. (See Winterbottom and Bennett.)
Bennett, Robert, *et al.* (See Sale, John H., assignor.)
Bennett, Robert J., Moline, assignor to Artista Piano Player Company, Milan, Ill. Folding treadle for piano-playing attachments. No. 984,527; Feb. 21; Sp. p. 2778; Gaz. vol. 163; p. 497.
Bennett, Robert J., Moline, assignor to Artista Piano Player Company, Milan, Ill. Folding treadle for piano-playing attachments. No. 984,528; Feb. 21; Sp. p. 2781; Gaz. vol. 163; p. 497.
Bennett, Robert J., Moline, assignor to Artista Piano Player Company, Milan, Ill. Controlling device for self-playing pianos. No. 992,149; May 16; Sp. p. 2804; Gaz. vol. 166; p. 522.
Bennett, Robert J., Moline, assignor to Artista Piano Player Company, Milan, Ill. Cabinet for automatic musical instruments. No. 1,006,526; Oct. 24; Sp. p. 4342; Gaz. vol. 171; p. 778.
Bennett, Robert J., Moline, assignor to Artista Piano Player Company, Milan, Ill. Controlling device for self-playing pianos. No. 1,009,715; Nov. 28; Sp. p. 4623; Gaz. vol. 172; p. 840.
Bennett, Samuel E., South Williamsport, Pa. Valve. No. 1,011,147; Dec. 12; Sp. p. 1680; Gaz. vol. 173; p. 296.
Bennett, Samuel G., Chesterfield, England. Safety appliance for mines. No. 996,049; June 27; Sp. p. 4250; Gaz. vol. 167; p. 772.
Bennett, Silas W., Somerville, Mass. Ball-caster. No. 1,005,799; Oct. 17; Sp. p. 2681; Gaz. vol. 171; p. 492.
Bennett, Silas W., and E. N. Hutchins, Somerville, Mass. Bed-spring tightener. No. 985,130; Feb. 28; Sp. p. 4007; Gaz. vol. 163; p. 738.
Bennett, William A., Bolton, and J. L. Ardern, Newton-le-Willows, England. Spray-burner. No. 1,000,227; Aug. 8; Sp. p. 2149; Gaz. vol. 169; p. 382.
Bennett, William H. (See McElroy, Lewis D., assignor.)
Bennett, William H., Indianapolis, Ind. Pump. No. 994,368; June 6; Sp. p. 557; Gaz. vol. 167; p. 95.
Bennett, William P., Woodstock, Ohio. Windmill. No. 985,131; Feb. 28; Sp. p. 4009; Gaz. vol. 163; p. 738.
Bennett, William W., and C. S. Pilkington, Westerville, Ohio. Composition for coating molds for concrete. No. 1,004,844; Oct. 3; Sp. p. 646; Gaz. vol. 171; p. 105.
Bennett, Winchester, assignor to Winchester Repeating Arms Co., New Haven, Conn. Tubular-magazine repeating gun. No. 993,817; May 30; Sp. p. 6434; Gaz. vol. 166; p. 1159.
Bennett, Winchester, assignor to Winchester Repeating Arms Co., New Haven, Conn. Reversible mounts for telescope-sights. No. 1,000,145; Aug. 8; Sp. p. 1969; Gaz. vol. 169; p. 354.
Benningfield, Thomas, Englewood, Kans. Clothes-line post. No. 992,842; May 23; Sp. p. 4307; Gaz. vol. 166; p. 794.
Benninghoff, Joseph M., Auburn, Ind., assignor to A. C. Himebaugh, Burr Oak, Mich. Headlight for vehicles. No. 981,834; Jan. 17; Sp. p. 3699; Gaz. vol. 162; p. 625.
Bensen, Bernard, Chicago, Ill. Flushing mechanism for water-closet bowls. No. 1,004,349; Sept. 26; Sp. p. 4756; Gaz. vol. 170; p. 841.
Benskin, Alfred W., Maumee, Ohio. Try-square. No. 985,132; Feb. 28; Sp. p. 4011; Gaz. vol. 163; p. 739.
Benson, Ernest L., *et al.* (See Spaulding, Franklin, assignor.)
Benson, Gust W., Chicago, Ill. Propeller-guard. No. 1,009,635; Nov. 21; Sp. p. 4444; Gaz. vol. 172; p. 766.
Benson, Henry M., Crescent, Nev., assignor of three-fourths to A. Boyce and one-fourth to G. W. Condon, Los Angeles, Cal. Flying-machine. No. 1,006,624; Oct. 24; Sp. p. 4570; Gaz. vol. 171; p. 815.
Benson, Hepburn S., Aldan, Pa. Metal screen. No. 999,479; Aug. 1; Sp. p. 557; Gaz. vol. 169; p. 98.
Benson, James C., Troy, Ohio. Seed-cleaner and grain-separator. No. 1,002,555; Sept. 5; Sp. p. 833; Gaz. vol. 170; p. 123.
Benson, John D., Chesapeake City, Md. Sucker-valve. No. 999,737; Aug. 8; Sp. p. 1082; Gaz. vol. 169; p. 215.
Benson, Joseph S., Iowa City, Iowa. Propeller-wheel. No. 981,835; Jan. 17; Sp. p. 3701; Gaz. vol. 162; p. 626.
Benson, L. C., *et al.* (See Olson, Edward, assignor.)
Benson, Walter, assignor of one-half to N. Laundry, Eau Claire, Wis. Wrench. No. 992,150; May 16; Sp. p. 2805; Gaz. vol. 166; p. 522.
Benson, William C., Mounts, Ind. Self-adjusting pitman connection. No. 985,133; Feb. 28; Sp. p. 4012; Gaz. vol. 163; p. 739.
Benson, William J. (See Wilcox and Benson.)
Benson, William S., and J. Brieloff, New York, N. Y. Photographic plate. No. 1,012,505; Dec. 19; Sp. p. 4671; Gaz. vol. 173; p. 802.
Benster, Halsey L. (See Benster, Joshua G. and H. L.)
Benster, Joshua G. and H. L., Moline, Ill. Coping-machine. No. 1,003,866; Sept. 19; Sp. p. 3643; Gaz. vol. 170; p. 648.
Bent, George H., Hinsdale, assignor to George P. Bent Company, Chicago, Ill. Tempo-indicator for mechanical musical instruments. No. 982,786; Jan. 31; Sp. p. 5725; Gaz. vol. 162; p. 1010.
Bent, William H., *et al.* (See Bentley, Thomas, assignor.)
Bentler, John W., Erlanger, Ky., assignor of one-third to D. S. Marfield, Cincinnati, Ohio. Gas-engine governor. No. 1,001,607; Aug. 29; Sp. p. 5139; Gaz. vol. 169; p. 953.
Bentley, Julian F. (See Phifer, Washington I., assignor.)
Bentley, Manton T., York, Pa. Belt-pulley. No. 980,744; Jan. 3; Sp. p. 1210; Gaz. vol. 162; p. 194.
Bentley, Thaddeus S. (See McGloudy, John L., assignor.)
Bentley, Thomas, Dracut, assignor of one-half to W. H. Bent, Lowell, Mass. Adjustable spindle-step. No. 988,924; Apr. 4; Sp. p. 1323; Gaz. vol. 165; p. 212.
Bentley, Thomas, Dracut Center, assignor of one-fourth to W. H. Bent, Lowell, and one-fourth to M. V. Phipps, Hopkinton, Mass. Means for preventing singles in roving-frames. No. 988,925; Apr. 4; Sp. p. 1324; Gaz. vol. 165; p. 213.

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Benton, Abba, and C. D. Jordan, Monticello, Ga. Combined cultivator, harrow, and rake. No. 980,586; Jan. 3; Sp. p. 887; Gaz. vol. 162; p. 143.
Benton, Daniel M., Macon, Ga. Combined envelop and letter-sheet. No. 1,009,039; Nov. 21; Sp. p. 3153; Gaz. vol. 172; p. 559.
Benton, Edward T., Jr., Washington, D. C., assignor to The American Detachable Shoe Heel Company. Detachable heel. No. 995,656; June 20; Sp. p. 3416; Gaz. vol. 167; p. 602.
Benton, George W., Conneaut, Ohio. Mechanism for closing ferrules. No. 998,455; July 18; Sp. p. 4028; Gaz. vol. 168; p. 715.
Benton, George W., Conneaut, Ohio. Shovel. No. 1,012,972; Dec. 26; Sp. p. 5741; Gaz. vol. 173; p. 1007.
Benton, George W., Finley, N. D. Automobile steering-mechanism lock. No. 1,004,973; Oct. 3; Sp. p. 902; Gaz. vol. 171; p. 149.
Benton, Henry, Elizabeth, N. J. Grate. No. 987,945; Mar 28; Sp p. 4673; Gaz. vol. 164; p. 837.
Bentz, William T., assignor to Elyria Iron and Steel Company, Elyria, Ohio. Tie-plate. No. 989,321; Apr. 11; Sp. p. 2194; Gaz. vol. 165; p. 372.
Benwell, William J. (See Robinson, Benwell, Groves, and Harvey.)
Benz, Frederick, Jr., Haledon, N. J., assignor to J. Frank, New York, N. Y. Narrow-ware loom. No. 982,464; Jan. 24; Sp. p. 5068; Gaz. vol. 162; p. 875.
Benz, Frederick, Jr., Haledon, N. J., assignor to J. Frank, New York, N. Y. Glass-bar-bracket mechanism for looms. No. 983,020; Jan. 31; Sp. p. 6255; Gaz. vol. 162; p. 1088.
Benz, Frederick, Jr., Haledon, N. J., assignor to J. Frank, New York, N. Y. Let-off mechanism for narrow-ware looms. No. 1,001,804; Aug. 29; Sp. p. 5568; Gaz. vol. 169; p. 1021.
Benz, Gustaff A., Big Island township, Marion county, Ohio. Corn-husker. No. 1,007,638; Oct. 31; Sp. p. 6785; Gaz. vol. 171; p. 1220.
Benze, Angeline, and G. L. Hubbell, Bridgeport, Conn. Spool-holder. No. 998,948; July 25; Sp. p. 5163; Gaz. vol. 168; p. 922.
Benzee, Arthur H., Buffalo, N. Y. Ribbon-carrier mechanism for type-writing machines. No. 1,001,608; Aug. 29; Sp. p. 5141; Gaz vol. 169; p. 953.
Benzon, George H., Jr., Jenkintown, assignor to William Sellers & Company, Philadelphia, Pa. Belt driving mechanism for reciprocating parts of machines. No. 990,421; Apr. 25; Sp. p. 4621; Gaz. vol. 165; p. 813.
Beran, Augustin, Vienna, Austria-Hungary. Wrench. No. 1,006,348; Oct. 17; Sp. p. 3926; Gaz. vol. 171; p. 686.
Berardi, Giacomo, Genoa, Italy. Appliance for preventing fraud in connection with electricity-meters. No. 999,196; Aug. 1; Sp. p. 6; Gaz. vol. 169; p. 3.
Berbecker & Rowland Manufacturing Company. (See Laun, Christian F., assignor.)
Bercegol, Raymond de. (See Du Hauron and Bercegol.)
Berchem, Alfred, Detroit, Mich. Sleeping-cabinet. No. 986,430; Mar. 14; Sp. p. 1431; Gaz. vol. 164; p. 259.
Bercot, Henry E., Everett, Wash. Beet-blocker. No. 1,007,421; Oct. 31; Sp. p. 6305; Gaz. vol. 171; p. 1146.
Bercy, George, Monroe, Wis. Compound for treating tobacco. No. 996,830; July 4; Sp. p. 470; Gaz. vol. 168; p. 78.
Berdenich, Ernst. (See Kolossváry, Haltenberger, and Berdenich.)
Berdux, Emil, assignor to Firm of V. Berdux, Munich, Germany. Pianoforte. No. 983,529; Feb. 7; Sp. p. 578; Gaz. vol. 163; p. 93.
Berdux, Firm of V. (See Berdux, Emil, assignor.)
Bereman, John W., Lyons, Kans. Folding table. No. 984,529; Feb. 21; Sp. p. 2785; Gaz. vol. 163; p. 498.
Berendes, Rudolph, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Phenyl esters of alpha-iodoisovaleric acid. No. 994,494; June 6; Sp. p. 796; Gaz. vol. 167; p. 136.
Berends, Jacob, Englewood, Kans. Wheel-driving mechanism. No. 986,262; Mar. 7; Sp. p. 1066; Gaz. vol. 164; p. 170.
Berends, Jacob, Englewood, Kans. Gear-casing for driving and steering wheels. No. 990,798; Apr. 25; Sp. p. 5463; Gaz. vol. 165; p. 940.
Berentsen, Hans G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 981,741; Jan. 17; Sp. p. 3488; Gaz. vol. 162; p. 591.
Berentsen, Hans G., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 984,260; Feb. 14; Sp. p. 2207; Gaz. vol. 163; p. 372.
Berg, Alfred J., Kittery, Me., assignor of one-half to A. C. Barr, Manchester, N. H. Cleaning device for carboys. No. 982,566; Jan. 24; Sp. p. 5262; Gaz. vol. 162; p. 908.
Berg, Andrew, and J. A. Fray, Bridgeport, Conn., assignors to The American Steel & Wire Company of New Jersey, Worcester, Mass. Flying shears. No. 1,010,571; Dec. 5; Sp. p. 378; Gaz. vol. 173; p. 60.
Berg, Augustine E., Oakland, Cal. Tire-sleeve. No. 982,465; Jan. 24; Sp. p. 5071; Gaz. vol. 162; p. 875.
Berg, Carl K. and O. K., Chicago, Ill. Tool for wire. No. 993,571; May 30; Sp. p. 5884; Gaz. vol. 166; p. 1072.
Berg, Carl K., and K. F. Baumann; said Berg assignor to P. W. Imhof, Chicago, Ill. Grinding-machine. No. 992,702; May 16; Sp. p. 4001; Gaz. vol. 166; p. 714.
Berg, Carl O., Everett, assignor to J. S. Wilson, Chelsea, Mass. Circular loom. No. 1,000,576; Aug. 15; Sp. p. 2932; Gaz. vol. 169; p. 537.
Berg, Elling O., Madison, Minn. Detachable valve-seat. No. 984,062; Feb. 14; Sp. p. 1770; Gaz. vol. 163; p. 304.
Berg, Ernst J., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 981,742; Jan. 17; Sp. p. 3490; Gaz. vol. 162; p. 591.
Berg, Hjalmar, Iola, Idaho. Tobacco-receptacle. No. 1,001,242; Aug. 22; Sp. p. 4395; Gaz. vol. 169; p. 799.
Berg, Jacob H., McClusky, N. D. Penholder. No. 988,851; Apr. 4; Sp. p. 1186; Gaz. vol. 165; p. 189.
Berg, John, Chicago, Ill. Painter's scaffold. No. 984,063; Feb. 14; Sp. p. 1771; Gaz. vol. 163; p. 305.
Berg, John, West Pullman, Ill., assignor to Air Torpedo Company. Toy torpedo. No. 989,829; Apr. 18; Sp. p. 3304; Gaz. vol. 165; p. 577.
Berg, Joseph. (See Kallis and Berg.)
Berg, Olaf, Seattle, Wash. Bench-clamp. No. 990,186; Apr. 18; Sp. p. 4051; Gaz. vol. 165; p. 696.
Berg, Ole K. (See Berg, Carl K. and O. K.)
Bergdolt, Wilhelm, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown azo dye. No. 1,009,952; Nov. 28; Sp. p. 5100; Gaz. vol. 172; p. 920.
Bergen, Harry S., Toledo, Ohio. Shock-absorber for vehicles. No. 1,011,311; Dec. 12; Sp. p. 2067; Gaz. vol. 173; p. 353.
Bergen, James V., El Paso, Tex. Rail-fastening device. No. 986,348; Mar. 7; Sp. p. 1235; Gaz. vol. 164; p. 199.
Bergen Point Iron Works. (See McIntyre, Malcolm, assignor.)
Bergenthal, Charles L., and L. Keller, Wichita, Kans. Pulley. No. 986,961; Mar 14; Sp. p. 2542; Gaz. vol. 164; p. 440.
Berger, Alfred A., Arlington, Minn. Hook. No. 1,002,629; Sept. 5; Sp. p. 1008; Gaz. vol. 170; p. 150.
Berger, Bela, Los Angeles, Cal. Filtration-faucet. No. 990,695; Apr. 25; Sp. p. 5247; Gaz. vol. 165; p. 905.
Berger Bros. (See Berger, Darwin S., assignor.)
Berger, Christian L., Boston, Mass. Surveying instrument. No. 1,003,419; Sept. 19; Sp. p. 2684; Gaz. vol. 170; p. 493.
Berger, Darwin S., assignor to Berger Bros., New Haven, Conn. Corset. No. 980,745; Jan. 3; Sp. p. 1213; Gaz. vol. 162; p. 194.
Berger, Ferdinand H., assignor to Russel Motor Axle Company, Detroit, Mich. Gearing. No. 989,689; Apr. 18; Sp. p. 3001; Gaz. vol. 165; p. 528.
Berger, Gustavus F., *et al.* (See Wolever, Franklin H., assignor.)
Berger, Henry. (See Kipp and Berger.)
Berger, Lewis A. (See Young and Berger.)
Berger Manufacturing Company, The. (See Naugle, Harry M., assignor.)
Berger, Otto, New York, N. Y. Lubricator for elevator-guides. No. 1,007,422; Oct. 31; Sp. p. 6307; Gaz. vol. 171; p. 1147.
Berger, Ulysses L., Washington, D. C. Curtain-bracket. No. 988,852; Apr. 4; Sp. p. 1187; Gaz. vol. 165; p. 189.
Berger, Waldemar, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Apparatus for dyeing loose material. No. 983,530; Feb. 7; Sp. p. 579; Gaz. vol. 163; p. 93.
Berger, William A., Boston, Mass. Dumpy-level. No. 994,903; June 13; Sp. p. 1796; Gaz. vol. 167; p. 316.
Bergerat, Henry, *et al.* (See Szilard, Béla, assignor.)
Bergeron, Arthur, Montreal, Wis. Valve-rod and wrist-pin connection. No. 1,011,148; Dec. 12; Sp. p. 1682; Gaz. vol. 173; p. 296.
Bergeron, Louis D., Providence, R. I. Locket-purse sash-pin. No. 999,692; Aug. 1; Sp. p. 973; Gaz. vol. 169; p. 170.
Bergerud, Hans C., Fergus Falls, Minn. Spring-wheel. No. 999,197; Aug. 1; Sp. p. 9; Gaz. vol. 169; p. 4.
Berggren, Eric A., Oneida, Ill. Corn-husking device. No. 980,746; Jan. 3; Sp. p. 1214; Gaz. vol. 162; p. 195.
Berggren, Eric A., Oneida, Ill. Husking implement. No. 1,007,263; Oct. 31; Sp. p. 5975; Gaz. vol. 171; p. 1091.
Bergh, Frederick P., H. J. Loebinger, and H. C. Neuberger, assignors, by mesne assignments, to General Reduction Company, New York, N. Y. Evaporating fluids. No. 997,950; July 18; Sp. p. 2918; Gaz. vol. 168; p. 536.
Bergin, Andrew F., Howell, Mich. Tire-grip. No. 1,000,662; Aug. 15; Sp. p. 3132; Gaz. vol. 169; p. 567.
Bergler, Charles, Portland, Oreg. Damper for stovepipes, furnaces, smoke-stacks, chimneys, and the like. No. 987,946; Mar. 28; Sp. p. 4677; Gaz. vol. 164; p. 837.
Bergman, Erick P., Cherokee, Okla. Grain-separator. No. 993,141; May 23; Sp. p. 4960; Gaz. vol. 166; p. 898.
Bergman, Erick P., Cherokee, Okla. Car-journal oiler. No. 994,565; June 6; Sp. p. 968; Gaz. vol. 167; p. 160.
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Bergmark, Charles O., Chicago, Ill. Feed-water regulator. No. 997,734; July 11; Sp. p. 2381; Gaz. vol. 168; p. 418.
Bergquist, Edward, assignor to Eagle Pencil Company, New York, N. Y. Display-stand. No. 1,010,113; Nov. 28; Sp. p. 5440; Gaz. vol. 172; p. 975.
Bergren, Charles, assignor to J. Henderson, Duluth, Minn. Pipe and bolt thread cutting machine. No. 1,008,885; Nov. 14; Sp. p. 2805; Gaz. vol. 172; p. 472.
Bergsather, Jacob M. (See Bergsather, Rasmus S., assignor.)
Bergsather, Rasmus S., assignor of one-half to J. M. Bergsather, Northwood, Iowa. Warehouse-truck. No. 990,187; Apr. 18; Sp. p. 4053; Gaz. vol. 165; p. 697.
Bergstrom, Andrew, Chicago, Ill. Tool-holder. No. 993,335; May 30; Sp. p. 5371; Gaz. vol. 166; p. 993.
Bergström, Johan E., Christiania, Norway. Self-expanding mandrel. No. 1,005,928; Oct. 17; Sp. p. 2988; Gaz. vol. 171; p. 540.
Bergstrom, Oscar, assignor to Handy Manufacturing Company, Chicago, Ill. Clamp. No. 994,630; June 6; Sp. p. 1094; Gaz. vol. 167; p. 182.
Bergstrom, Oscar M., Minneapolis, Minn. Air-compressing plant. No. 1,011,400; Dec. 12; Sp. p. 2244; Gaz. vol. 173; p. 383.
Bergsvik, Chris, Yankton, S. D. Beer-preserver. No. 1,001,805; Aug. 29; Sp. p. 5570; Gaz. vol. 169; p. 1021.
Berhold, Bernhard, Forest Park, Ill. Amusement device. No. 995,945; June 20; Sp. p. 4037; Gaz. vol. 167; p. 702.
Berhorst, John C., assignor of one-half to F. D. Case, Fort Madison, Iowa. Plant-setter. No. 1,010,572; Dec. 5; Sp. p. 381; Gaz. vol. 173; p. 60.
Berkeley, Wales O., assignor to Sanitary Repository Company, Inc., Potsdam, N. Y. Repository. No. 998,742; July 25; Sp. p. 4692; Gaz. vol. 168; p. 849.
Berkes, Gus A., *et al.* (See Lange, Wilhelm E., assignor.)
Berkey, Peter F., Jennerstown, Pa. Washing-machine. No. 1,004,527; Sept. 26; Sp. p. 5122; Gaz. vol. 170; p. 902.
Berky, Jacob H., River Park, Ind. Well-driving point. No. 1,004,528; Sept. 26; Sp. p. 5124; Gaz. vol. 170; p. 902.
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Berlin-Anhaltische Maschinenbau-Aktiengesellschaft. (See Fröhlich, Otto, assignor.)
Berlin, Henry H., *et al.* (See Febiger, Henry B., assignor.)
Berlin Machine Works, The. (See Harper, William, assignor.)
Berlin Machine Works, The. (See Harper and Converse, assignors.)
Berlin Machine Works, The. (See Lane, Franklin L., assignor.)
Berlin Machine Works, The. (See Mitchell, Harrison J., assignor.)
Berlin Machine Works, The. (See Osborn, Ozra B., assignor.)
Berlin Machine Works, The. (See Stevens, Burt D., assignor.)
Berlin, Melvin, Columbus, Ohio. Device for removing excrescences from pipes. No. 980,914; Jan. 10; Sp. p. 1634; Gaz. vol. 162; p. 283.
Berlin, Samuel N., *et al.* (See Williams, David C., assignor.)
Berliner, Emile. (See Moore, Robert S., assignor.)
Berman, Barnett, New York, N. Y. Bed-bottom. No. 984,882; Feb. 21; Sp. p. 3509; Gaz. vol. 163; p. 621.
Bermel, Joseph, New York, N. Y. Burial-vault. No. 983,804; Feb. 7; Sp. p. 1166; Gaz. vol. 163; p. 187.
Bernadou, Andrew H., assignor of one-half to H. Grass, Philadelphia, Pa. Railway-signal. No. 1,006,901; Oct. 24; Sp. p. 5184; Gaz. vol. 171; p. 911.
Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Pliers. No. 999,738; Aug. 8; Sp. p. 1083; Gaz. vol. 169; p. 215.
Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Pliers. No. 999,739; Aug. 8; Sp. p. 1085; Gaz. vol. 169; p. 216.
Bernardini, Roland P., Providence, R. I. Fuse. No. 994,566; June 6; Sp. p. 970; Gaz. vol. 167; p. 160.
Bernau, Gottfried J., New York, N. Y. Combined strainer and cover. No. 982,760; Jan. 24; Sp. p. 5668; Gaz. vol. 162; p. 971.
Bernau, Gottfried J., New York, N. Y. Cooking utensil. No. 987,691; Mar. 28; Sp. p. 4082; Gaz. vol. 164; p. 749.
Berndt, Fred P., Lancaster, Wis. Gate-hanger. No. 992,637; May 16; Sp. p. 3885; Gaz. vol. 166; p. 692.
Berndt, Siegfried, *et al.* (See Herd, Frank J., assignor.)
Berne, Frederic A., Birmingham, Ala. Reinforced concrete construction. No. 989,830; Apr. 18; Sp. p. 3306; Gaz. vol. 165; p. 577.
Bernegger, Henry, West New York, N. J. Balloon. No. 993,948; May 30; Sp. p. 6678; Gaz. vol. 166; p. 1202.
Berner, Corrèze A. O., London, England. Shackle. No. 1,002,120; Aug. 29; Sp. p. 6221; Gaz. vol. 169; p. 1124.
Berner, John, Whitefield, Marshall county, Ill. Spring-hub. No. 994,111; June 6; Sp. p. 14; Gaz. vol. 167; p. 5.
Bernert, George and J., South Germantown, Wis. Pneumatic elevator. No. 1,002,556; Sept. 5; Sp. p. 836; Gaz. vol. 170; p. 123.
Bernert, Jacob. (See Bernert, George and J.)
Bernesser, Vincent F., and J. J. Crotty, assignors to M. Farrell, New York, N. Y. Valve. No. 985,134; Feb. 28; Sp. p. 4013; Gaz. vol. 163; p. 739.
Bernett, Willis J., Kansas City, Mo. Advertising device or toy. No. 985,970; Mar. 7; Sp. p. 461; Gaz. vol. 164; p. 74.
Berney, Ernest S., Lakeview, Oreg. Attachment for steam-shovels. No. 1,008,776; Nov. 14; Sp. p. 2598; Gaz. vol. 172; p. 436.
Bernhard, Edward J. (See Hohmann, Richard K., assignor.)
Bernhardt, William E., Chicago, Ill. Flue-cleaner. No. 1,007,423; Oct. 31; Sp. p. 6309; Gaz. vol. 171; p. 1147.
Bernheimer, Oscar, Vienna, Austria-Hungary. Disinfecting composition. No. 989,322; Apr. 11; Sp. p. 2196; Gaz. vol. 165; p. 373.
Bernick, Ernst. (See Jacob and Bernick.)
Bernier, Alsime, Providence, R. I. Pneumatic tire. No. 1,002,214; Sept. 5; Sp. p. 39; Gaz. vol. 170; p. 4.
Berning, Ernst, Schwelm, Germany. Button-fastening tool or device. No. 989,109; Apr. 11; Sp. p. 1717; Gaz. vol. 165; p. 299.
Bernstein, Abraham, Cincinnati, Ohio. Shaft-tug. No. 1,005,502; Oct. 10; Sp. p. 2031; Gaz. vol. 171; p. 356.
Bernstein, Abraham, Cincinnati, Ohio. Saddle. No. 1,011,401; Dec. 12; Sp. p. 2246; Gaz. vol. 173; p. 384.
Bernstein, Emil, Nauendorf, Germany. Yieldable pitman for mowing-machines. No. 980,400; Jan. 3; Sp. p. 455; Gaz. vol. 162; p. 78.
Bernstein, Georg, Breslau, Germany. Device for producing continuous wavelike incisions in wood, &c. No. 1,001,338; Aug. 22; Sp. p. 4604; Gaz. vol. 169; p. 833.
Bernstein, Joseph, Chicago, Ill. Reinforced pocket. No. 986,676; Mar. 14; Sp. p. 1951; Gaz. vol. 164; p. 344.
Bernstrom, John, *et al.* (See Berrigan, John J., assignor.)
Bernz, Otto. (See Broderick, John W., assignor.)
Bernz, Otto, Newark, N. J. Automatic pressure-torch. No. 992,399; May 16; Sp. p. 3384; Gaz. vol. 166; p. 610.
Berold, Charles E., assignor to The Printing Machinery Company, Cincinnati, Ohio. Planing-machine attachment. No. 1,004,619; Oct. 3; Sp. p. 156; Gaz. vol. 171; p. 27.
Berold, Charles E., assignor to The Printing Machinery Company, Cincinnati, Ohio. Milling attachment for planing-machines. No. 1,004,620; Oct. 3; Sp. p. 157; Gaz. vol. 171; p. 27.
Berold, Frederick H., Cincinnati, Ohio. Lathe. No. 992,843; May 23; Sp. p. 4308; Gaz. vol. 166; p. 794.
Berowski, August. (See Popiel and Urbanski, assignors.)
Berrenberg, Reinold, Boston, Mass. Signal apparatus. No. 987,037; Mar. 14; Sp. p. 2678; Gaz. vol. 164; p. 464.
Berrenberg, Reinold, Boston, Mass. Convertible whistle and fog-horn. No. 987,038; Mar. 14; Sp. p. 2680; Gaz. vol. 164; p. 464.
Berreyesa, Abe E., Oakland, Cal. Ink-distributer. No. 991,193; May 2; Sp. p. 782; Gaz. vol. 166; p. 132.
Berrier, Stephen E., Batavia, Iowa. Railway-tie. No. 990,696; Apr. 25; Sp. p. 5248; Gaz. vol. 165; p. 905.
Berrigan, John J., Orange, N. J. Process of and apparatus for expression. No. 994,495; June 6; Sp. p. 797; Gaz. vol. 167; p. 136.
Berrigan, John J., Orange, N. J. Process of and apparatus for molding plastics. No. 994,496; June 6; Sp. p. 805; Gaz. vol. 167; p. 136.
Berrigan, John J., Orange, N. J. Producing starch. No. 994,497; June 6; Sp. p. 811; Gaz. vol. 167; p. 137.
Berrigan, John J., Orange, N. J. Extraction process and apparatus therefor. No. 994,631; June 6; Sp. p. 1095; Gaz. vol. 167; p. 182.
Berrigan, John J., Orange, N. J. Press. No. 994,632; June 6; Sp. p. 1108; Gaz. vol. 167; p. 183.
Berrigan, John J., Orange, N. J. Centrifugal separator. No. 998,949; July 25; Sp. p. 5164; Gaz. vol. 168; p. 922.
Berrigan, John J., East Orange, N. J., assignor to J. Bernstrom, Stockholm, Sweden, and F. J. Arend, New York, N. Y. Apparatus for separating liquids and solids. No. 1,005,800; Oct. 17; Sp. p. 2682; Gaz. vol. 171; p. 492.
Berry, Arthur F., Ealing, England, assignor to General Electric Company. Apparatus for use in the distribution of electric currents. No. 1,010,409; Dec. 5; Sp. p. 5; Gaz. vol. 173; p. 3.
Berry, Austin, Ottawa, Ontario, Canada. Car journal-box and dust-guard therefor. No. 999,721; Aug. 1; Sp. p. 1043; Gaz. vol. 169; p. 179.
Berry, Benjamin F., St. Louis, Mo. Paper-perforating device. No. 1,000,228; Aug. 8; Sp. p. 2150; Gaz. vol. 169; p. 382.
Berry, Charles E., Somerville, Mass. Adjustable chock. No. 1,011,726; Dec. 12; Sp. p. 2995; Gaz. vol. 173; p. 499.
Berry, Christopher, assignor of one-half to H. Engle, Syracuse, N. Y. Curtain-bracket. No. 991,936; May 9; Sp. p. 2364; Gaz. vol. 166; p. 420.

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Berry, Frank K., assignor to A. B. Stove Company, Battle Creek, Mich. Gas-stove. No. 1,012,054; Dec. 19; Sp. p. 3736; Gaz. vol. 173; p. 649.
Berry, Frederick E., Hayes, England. assignor to General Electric Company. Apparatus for use in the distribution of electric currents. No. 1,010,410; Dec. 5; Sp. p. 9; Gaz. vol. 173; p. 4.
Berry, George, West Drayton, England, assignor to General Electric Company. Apparatus for use in the distribution of electric currents. No. 1,009,636; Nov. 21; Sp. p. 4446; Gaz. vol. 172; p. 766.
Berry, Joel C., Greer, S. C. Cultivator. No. 1,003,394; Sept. 12; Sp. p. 2630; Gaz. vol. 170; p. 452.
Berry, John H., Newton, Ill. Trousers-stretcher. No. 986,893; Mar. 14; Sp. p. 2425; Gaz. vol. 164; p. 419.
Berry, Joseph C. (See Hawkins and Berry.)
Berry, Levi H., assignor of one-fourth to C. E. Piper, Pittsburg, Kans. Gas-generator. No. 1,002,025; Aug. 29; Sp. p. 6050; Gaz. vol. 169; p. 1094.
Berry, Richard T., Mendenhall, Miss. Rail-joint. No. 993,949; May 30; Sp. p. 6680; Gaz. vol. 166; p. 1202.
Berry, Seneca L., Sunnyvale, Cal. Nozzle. No. 1,002,960; Sept. 12; Sp. p. 1743; Gaz. vol. 170; p. 302.
Berry, Seneca L., Sunnyvale, Cal. Deflecting-nozzle. No. 1,009,377; Nov. 21; Sp. p. 3935; Gaz. vol. 172; p. 680.
Berry, Seneca L., Sunnyvale, Cal. Tangential-impulse water-wheel. No. 1,012,799; Dec. 26; Sp. p. 5334; Gaz. vol. 173; p. 950.
Berry, William D., *et al.* (See Vial, William, assignor.)
Berryman, Joseph D., assignor of one-half to G. E. Schlegelmilch, Philadelphia, Pa. Ice-can. No. 989,690; Apr. 18; Sp. p. 3003; Gaz. vol. 165; p. 528.
Bertels, Bernard H., Amsterdam, Netherlands. Cattle food. No. 989,478; Apr. 11; Sp. p. 2503; Gaz. vol. 165; p. 424.
Bertheim, Alfred. (See Ehrlich and Bertheim.)
Berthelot, Albert, and P. Rosenthal, Paris, France. Apparatus for use in administering anesthetics. No. 999,950; Aug. 8; Sp. p. 1521; Gaz. vol. 169; p. 287.
Berthold, Erich, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Monoazo dye. No. 983,805; Feb. 7; Sp. p. 1167; Gaz. vol. 163; p. 187.
Berthold, George H., assignor to The Metallic Company, Attleboro, Mass. Fob-chain, bracelet, &c., and making same. No. 999,146; July 25; Sp. p. 5552; Gaz. vol. 168; p. 987.
Berthold, Martin O., assignor to Fairbanks-Morse Electrical Manufacturing Company, Indianapolis, Ind. Induction-motor. No. 998,868; July 25; Sp. p. 4974; Gaz. vol. 168; p. 893.
Berthold, Paul, Dahlen, Germany. Support for bicycles. No. 1,008,006; Nov. 7; Sp. p. 783; Gaz. vol. 172; p. 124.
Berthon, Rodolphe, Lyon, France. Apparatus for color photography. No. 992,151; May 16; Sp. p. 2808; Gaz. vol. 166; p. 523.
Berti, Salvatore, Rimini, Italy. Machine for loading hunting-cartridges. No. 986,349; Mar. 7; Sp. p. 1237; Gaz. vol. 164; p. 200.
Bertilsen, Sivert O., Chicago, Ill. Force-pump. No. 1,011,149; Dec. 12; Sp. p. 1684; Gaz. vol. 173; p. 296.
Bertin, Paul. (See Hoage, Leon, assignor.)
Bertke, Bernard, Victoria, Ohio. Unloading apparatus. No. 1,001,922; Aug. 29; Sp. p. 5833; Gaz. vol. 169; p. 1061.
Bertke, Edward J., Norwood, Ohio. Step-ladder attachment. No. 1,004,550; Oct. 3; Sp. p. 1; Gaz. vol. 171; p. 3.
Bertolotti, Constantino, and D. Piccardo, New York, N. Y. Confection-immersing machine. No. 1,004,232; Sept. 26; Sp. p. 4532; Gaz. vol. 170; p. 802.
Bertolotti, Constantino, and D. Piccardo, New York, N. Y. Confection-marking machine. No. 1,004,233; Sept. 26; Sp. p. 4538; Gaz. vol. 170; p. 803.
Berton, Félicien, Paris, France. Horn for motor-vehicles and other purposes. No. 992,152; May 16; Sp. p. 2809; Gaz. vol. 166; p. 523.
Berton, Félicien, Paris, France. Construction of warning-horns. No. 993,336; May 30; Sp. p. 5372; Gaz. vol. 166; p. 993.
Bertram, August, New York, N. Y. Pencil-sharpener. No. 995,764; June 20; Sp. p. 3655; Gaz. vol. 167; p. 638.
Bertram, William E., Brooklyn, assignor to Mergenthaler Linotype Company, New York, N. Y. Font-selecting mechanism for monoline composing-machines. No. 991,937; May 9; Sp. p. 2365; Gaz. vol. 166; p. 420.
Bertram, William E., Brooklyn, assignor to Mergenthaler Linotype Company, New York, N. Y. Matrix selecting and delivery mechanism for composing-machines. No. 991,938; May 9; Sp. p. 2368; Gaz. vol. 166; p. 421.
Bertram, William E., Brooklyn, assignor to H. Ridder, New York, N. Y. Monoline composing-machine. No. 997,735; July 11; Sp. p. 2383; Gaz. vol. 168; p. 419.
Bertram, William E., Brooklyn, assignor to H. Ridder, New York, N. Y. Monoline composing-machine. No. 997,736; July 11; Sp. p. 2398; Gaz. vol. 168; p. 419.
Bertsch, Charles C. (See Kallenbach and Bertsch.)
Bertschy, Adolph J. P., Chicago, Ill. Shock-absorbing mechanism. No. 1,011,560; Dec. 12; Sp. p. 2617; Gaz. vol. 173; p. 442.
Berven, Knut O., Hodges, Mont. Furrow-guide. No. 1,000,961; Aug. 15; Sp. p. 3754; Gaz. vol. 169; p. 670.
Berzac, Cliff, New York, N. Y. Apparatus for training and amusement purposes. No. 994,567; June 6; Sp. p. 971; Gaz. vol. 167; p. 160.
Besaw, Willie O., Reedley, Cal. Gang-punch. No. 984,530; Feb. 21; Sp. p. 2786; Gaz. vol. 163; p. 498.
Beshore, Jacob B., assignor of one-third to G. C. Proctor and one-third to S. A. Williams, Harford county, Md. Brick. No. 1,003,693; Sept. 19; Sp. p. 3301; Gaz. vol. 170; p. 591.
Besler, William, Coloma, Wis. Resilient wheel. No. 987,340; Mar. 21; Sp. p. 3344; Gaz. vol. 164; p. 600.
Besler, William, Coloma Station, Wis. Automobile-brake. No. 1,004,733; Oct. 3; Sp. p. 403; Gaz. vol. 171; p. 67.
Besnier, Paul, New Orleans, La. Dyeing. No. 988,300; Apr. 4; Sp. p. 12; Gaz. vol. 165; p. 4.
Besser, Herman, Alpena, Mich. Grinding-machine. No. 980,587; Jan. 3; Sp. p. 889; Gaz. vol. 162; p. 143.
Besser, Herman and J. H., Alpena, Mich. Power tile-machine. No. 981,051; Jan. 10; Sp. p. 2008; Gaz. vol. 162; p. 331.
Besser, Herman and J. H., Alpena, Mich. Automatic file-machine. No. 1,001,609; Aug. 29; Sp. p. 5142; Gaz. vol. 169; p. 953.
Besser, Jesse H. (See Besser, Herman and J. H.)
Bessolo, William L., Denver, Colo. Pipe-wrench. No. 1,004,792; Oct. 3; Sp. p. 521; Gaz. vol. 171; p. 86.
Bessolo, William L., Denver, Colo. Pipe-wrench. No. 1,008,939; Nov. 14; Sp. p. 2924; Gaz. vol. 172; p. 488.
Bessonnet-Favre, Henri, assignor to Société Anonyme des Élévateurs de Liquides "Chaîne-Hélice" Bessonnet-Favre, Châtellerault, France. Lifting-chain with multiple concentric spirals for raising liquids. No. 988,301; Apr. 4; Sp. p. 12; Gaz. vol. 165; p. 4.
Best, Harley J. (See Simpson, Selden L., assignor.)
Best, Harrison D., assignor to The H. D. Best Dental Manufacturing Company, Pittsburg, Pa. Dental work. (Reissue.) No. 13,203; Feb. 14; Sp. p. 2746; Gaz. vol. 163; p. 459.
Best, Jennie, administratrix. (See Best, Thomas C.)
Best, Paul, Saarbrücken, Germany. Acetylene-lamp. No. 1,011,561; Dec. 12; Sp. p. 2620; Gaz. vol. 173; p. 442.
Best, Thomas C., deceased, Chicago, Ill.; J. Best, administratrix. Die and shearing mechanism. No. 1,008,940; Nov. 14; Sp. p. 2925; Gaz. vol. 172; p. 489.
Bestgen, John G., Quincy, Mass. Sharpening device for edge-tools. No. 984,464; Feb. 14; Sp. p. 2601; Gaz. vol. 163; p. 439.
Betham, William R., Chicago, Ill. Street-car safety appliance. No. 988,070; Mar. 28; Sp. p. 4952; Gaz. vol. 164; p. 878.
Bethea, Peter H., Latta, S. C. Sign. No. 993,818; May 30; Sp. p. 6435; Gaz. vol. 166; p. 1159.
Bethel, Charles O., Frederick, Okla. Plumb for corners, pilasters, and the like. No. 987,424; Mar. 21; Sp. p. 3516; Gaz. vol. 164; p. 629.
Bethel, Joseph T., Manchester, Va., assignor to The American Cork Screw Company. Corkscrew. No. 1,009,040; Nov. 21; Sp. p. 3156; Gaz. vol. 172; p. 559.
Bethlehem Steel Company. (See Meigs and Jakobsson, assignors.)
Bethlehem Steel Company. (See Meigs and Stout, assignors.)
Betsworth, Nettie E., Los Angeles, Cal. Attachment for douche-pans. No. 996,200; June 27; Sp. p. 4625; Gaz. vol. 167; p. 825.
Bett, Robert B., Lord, Md. Car-fender. No. 1,006,349; Oct. 17; Sp. p. 3927; Gaz. vol. 171; p. 686.
Bettendorf Axle Company. (See Hamilton, Karl M., assignor.)
Bettendorf, J. W., administrator. (See Bettendorf, William P.)
Bettendorf Tool Company. (See Drake, Iama, assignor.)
Bettendorf, William P., deceased, Bettendorf, Iowa; J. W. Bettendorf, administrator. Floor construction for freight-cars. No. 986,422; Mar. 7; Sp. p. 1399; Gaz. vol. 164; p. 226.
Bettendorf, William P., deceased, Davenport, Iowa; J. W. Bettendorf, administrator. Side frame for car-trucks. No. 994,053; May 30; Sp. p. 6889; Gaz. vol. 166; p. 1237.
Bettendorf, William P., deceased, Davenport, Iowa; J. W. Bettendorf, administrator. Draft-rigging for cars and supporting structure therefor. No. 995,996; June 20; Sp. p. 4134; Gaz. vol. 167; p. 719.
Bettigole, Samuel, New Haven, Conn. Candlestick. No. 1,012,973; Dec. 26; Sp. p. 5742; Gaz. vol. 173; p. 1008.
Bettis, Frank W., Buffalo, N. Y. Jar-opener. No. 1,004,734; Oct. 3; Sp. p. 406; Gaz. vol. 171; p. 67.
Betts, Anson G., Troy, N. Y. Electrolytically refining alloys. No. 987,947; Mar. 28; Sp. p. 4679; Gaz. vol. 164; p. 837.
Betts, Benjamin B., St. Louis, Mo., assignor to Positive Rail Anchor Company, Louisville, Ky. Railway-rail anchor. No. 996,904; July 4; Sp. p. 634; Gaz. vol. 168; p. 103.

Betts, Benjamin B., St. Louis, Mo., assignor to Positive Rail Anchor Company, Louisville, Ky. Rail-anchor. No. 996,905; July 4; Sp. p. 636; Gaz. vol. 168; p. 104.
Betts, Charles L., assignor to R. E. Dietz Company, New York, N. Y. Acetylene-lamp. No. 1,006,715; Oct. 24; Sp. p. 4737; Gaz. vol. 171; p. 844.
Betts, Lewis F., New York, assignor to A. A. Low, Horseshoe, M. J. Wohl and H. Hertzberg, New York, N. Y., trustees. Broiler. No. 1,007,323; Oct. 31; Sp. p. 6102; Gaz. vol. 171; p. 1112.
Betz, Charles L., assignor to F. W. Woodruff, Rochester, Pa. Stopper for glass-pots. No. 987,212; Mar. 21; Sp. p. 3075; Gaz. vol. 164; p. 557.
Betz, Frank S. (See Smith, Leo, assignor.)
Betz, Lawrence J., and W. F. Noe, Allison Park, Pa. Folding crate and box. No. 998,456; July 18; Sp. p. 4032; Gaz. vol. 168; p. 716.
Betz, Philip M., Yonkers, N. Y. Car-seal. No. 986,129; Mar. 7; Sp. p. 781; Gaz. vol. 164; p. 126.
Betz, Roy E., Columbus, Ohio. Lighting system. No. 1,009,888; Nov. 28; Sp. p. 4972; Gaz. vol. 172; p. 898.
Betz, William G., Steger, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Pneumatic piano. No. 980,747; Jan. 3; Sp. p. 1215; Gaz. vol. 162; p. 195.
Betz, William G., Steger, assignor to Steger and Sons Piano Manufacturing Company, Chicago, Ill. Piano-key lock. No. 984,465; Feb. 14; Sp. p. 2605; Gaz. vol. 163; p. 440.
Betz, William G., Steger, assignor to Steger and Sons Piano Manufacturing Company, Chicago, Ill. Expression and tempo indicator. No. 984,466; Feb. 14; Sp. p. 2606; Gaz. vol. 163; p. 440.
Betz, William G., Steger, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Sliding panel for pneumatic pianos. No. 986,621; Mar. 14; Sp. p. 1830; Gaz. vol. 164; p. 325.
Betz, William G., Steger, assignor to Steger and Sons Piano Manufacturing Company, Chicago, Ill. Wind and rewind mechanism for mechanical musical instruments. No. 998,743; July 25; Sp. p. 4694; Gaz. vol. 168; p. 849.
Betz, William G., Steger, assignor to Steger and Sons Piano Manufacturing Company, Chicago, Ill. Pneumatic for automatic pianos. No. 1,001,923; Aug. 29; Sp. p. 5838; Gaz. vol. 169; p. 1062.
Betz, William G., assignor to Steger & Sons Piano Manufacturing Company, Steger, Ill. Bellows mechanism for pneumatic pianos. No. 1,012,316; Dec. 19; Sp. p. 4307; Gaz. vol. 173; p. 739.
Betz, William G., Chicago Heights, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Pneumatic piano. No. 981,363; Jan. 10; Sp. p. 2721; Gaz. vol. 162; p. 442.
Betz, William G., Chicago Heights, assignor to Steger & Sons Piano Manufacturing Company, Chicago, Ill. Pneumatic piano. No. 1,012,317; Dec. 19; Sp. p. 4308; Gaz. vol. 173; p. 739.
Beuermann, Frank O., New York, N. Y. Mouthpiece for telephones. No. 1,008,522; Nov. 14; Sp. p. 2024; Gaz. vol. 172; p. 346.
Beugler, Edwin F., assignor to E. B. Holmes, Buffalo, N. Y. Barrel-sanding machine. No. 988,071; Mar. 28; Sp. p. 4954; Gaz. vol. 164; p. 879.
Beuhler, George A., Belden, N. D. Door-hinge. No. 1,004,529; Sept. 26; Sp. p. 5125; Gaz. vol. 170; p. 902.
Beuligmann, Anton. (See Wieler, Beuligmann, and Ayres.)
Beuoy, George, and G. H. Loshbough, Cedar Vale, Kans. Caponizing instrument. No. 1,002,961; Sept. 12; Sp. p. 1744; Gaz. vol. 170; p. 302.
Beuthe, Carl. (See Knochenhauer and Beuthe.)
Beuttenmüller, Rudolf, Philadelphia, Pa. Machine-tool. No. 998,273; July 18; Sp. p. 3643; Gaz. vol. 168; p. 651.
Bevan, Samuel L. (See Bowne, John D., assignor.)
Bevans, Harry L. and H. D., Mulberry, Kans. Time-controlled electric firing-machine. No. 1,007,177; Oct. 31; Sp. p. 5795; Gaz. vol. 171; p. 1060.
Bevans, Hugh D. (See Bevans, Harry L. and H. D.)
Beverly, George H., *et al.* (See Jones, William E., assignor.)
Beverly, James A., Kansas City, Mo. Rat-trap. No. 991,128; May 2; Sp. p. 636; Gaz. vol. 166; p. 109.
Bevill, Cheves, assignor of one-half to S. D. Bevill, Waldron, Ark. Aspirating-syringe. No. 986,263; Mar. 7; Sp. p. 1067; Gaz. vol. 164; p. 170.
Bevill, Claibourn. Bushnell, Fla. Plant-shield. No. 1,011,017; Dec. 5; Sp. p. 1348; Gaz. vol. 173; p. 215.
Bevill, George W., East Stroudsburg, Pa. Curtain-pole. No. 995,946; June 20; Sp. p. 4039; Gaz. vol. 167; p. 703.
Bevill, Sims D. (See Bevill, Cheves, assignor.)
Bevis, Restal R. (See Clayton, Melville G., assignor.)
Beyer, Adolph. (See Becker and Beyer.)
Beyer, Albert, Newark, N. J. Potato-peeling machine. No. 998,950; July 25; Sp. p. 5168; Gaz. vol. 168; p. 922.
Beyer, Alois, Chicago, Ill. Watchman's clock. No. 1,003,227; Sept. 12; Sp. p. 2299; Gaz. vol. 170; p. 394.
Beyer, Gustav, San Francisco, Cal. Portable stove. No. 981,608; Jan. 17; Sp. p. 3225; Gaz. vol. 162; p. 547.
Beyer, Gustav, Fort Sill, Okla. Combined field water-heater and grate. No. 981,609; Jan. 17; Sp. p. 3227; Gaz. vol. 162; p. 548.
Beyer, Otto S., East Rutherford, N. J., assignor to Automatic Platen Press Company, New York, N. Y. Inking mechanism for platen-presses. No. 993,572; May 30; Sp. p. 5886; Gaz. vol. 166; p. 1073.
Beymer, Alvin C. (See Heaney and Beymer.)
Beyrle, Andrew, Los Angeles, Cal. Machine for covering strips of wood with metal. No. 990,470; Apr. 25; Sp. p. 4717; Gaz. vol. 165; p. 829.
Bezold, John E., Jersey City, N. J. Chair or sofa with interchangeable seat. No. 997,737; July 11; Sp. p. 2409; Gaz. vol. 168; p. 420.
Bezy, Henry F., Tilton, Ark. Railway-tie. No. 1,001,243; Aug. 22; Sp. p. 4397; Gaz. vol. 169; p. 800.
Bialik, Paul, Pine Lawn, assignor of one-half to B. J. Ruhland, St. Louis, Mo. Transposing-keyboard for pianos and organs. No. 1,000,365; Aug. 15; Sp. p. 2461; Gaz. vol. 169; p. 460.
Bialik, Paul, Pine Lawn, assignor of one-half to B. J. Ruhland, St. Louis, Mo. Transposing keyboard attachment for pianos and organs. No. 1,004,350; Sept. 26; Sp. p. 4760; Gaz. vol. 170; p. 841.
Bibauw, Asiman, New York, N. Y. Broom-handle holder. No. 993,220; May 23; Sp. p. 5117; Gaz. vol. 166; p. 922.
Bibbens, George W., Kansas City, Mo. Electrical curling-iron. No. 991,129; May 2; Sp. p. 639; Gaz. vol. 166; p. 109.
Bicalky, Charles H., Buffalo, N. Y. Locking pipe-joint. No. 1,005,145; Oct. 10; Sp. p. 1219; Gaz. vol. 171; p. 228.
Bichel, Christian E., Hamburg, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Treating nitro bodies in shells. No. 1,000,663; Aug. 15; Sp. p. 3134; Gaz. vol. 169; p. 568.
Bickel, Paul S. A., and F. C. Pierce, Shoshone, Idaho. Pump. No. 982,761; Jan. 24; Sp. p. 5670; Gaz. vol. 162; p. 971.
Bicker, Edgar B. (See Coe, Charles E., assignor.)
Bicker, Edward B. (See Coe, Charles E., assignor.)
Bickerstaff, Elmer M., Cochranton, Pa. Lime and fertilizer distributer. No. 981,160; Jan. 10; Sp. p. 2242; Gaz. vol. 162; p. 371.
Bickerstaff, Elmer M., Cochranton, Pa. Fertilizer-distributer. No. 1,005,767; Oct. 10; Sp. p. 2612; Gaz. vol. 171; p. 450.
Bickerton, George W., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Cooling apparatus for plates, sheets, and the like. No. 1,006,902; Oct. 24; Sp. p. 5186; Gaz. vol. 171; p. 911.
Bickerton, Herbert L., Herts, England. Rotary engine. No. 1,002,121; Aug. 29; Sp. p. 6222; Gaz. vol. 169; p. 1125.
Bickerton, Richard F., Washington, D. C. Sunshade. No. 1,008,109; Nov. 7; Sp. p. 995; Gaz. vol. 172; p. 160.
Bickford, Thomas, Brewster, Mass. Power-transmitting mechanism. No. 1,003,027; Sept. 12; Sp. p. 1870; Gaz. vol. 170; p. 323.
Bickley, Walter S., Chester, Pa., assignor to Penn Steel Casting and Machine Company. Testing apparatus. No. 987,609; Mar. 21; Sp. p. 3877; Gaz. vol. 164; p. 690.
Bickley, Walter S., Chester, Pa., assignor to Penn Steel Casting and Machine Company. Testing apparatus. No. 987,667; Mar. 21; Sp. p. 4003; Gaz. vol. 164; p. 713.
Biddemen, Joseph H. (See Hoskyn and Biddemen.)
Biddinger, John W., Washington, Ind. Engine-starter. No. 987,105; Mar. 21; Sp. p. 2805; Gaz. vol. 164; p. 516.
Biddle, Alexander W., Philadelphia, Pa. Golf-club. No. 1,000,982; Aug. 22; Sp. p. 3821; Gaz. vol. 169; p. 712.
Bideaux, Alfred L., Brooklyn, N. Y. Life-saving device. No. 986,431; Mar. 14; Sp. p. 1432; Gaz. vol. 164; p. 259.
Bidlake, Joshua, Vashon, Wash. Gang-plank. No. 1,000,983; Aug. 22; Sp. p. 3822; Gaz. vol. 169; p. 712.
Bidwell, Jason A., assignor to himself and N. S. Bidwell, Cleveland, Ohio. Feeding device for screw-machines and the like. No. 992,935; May 23; Sp. p. 4525; Gaz. vol. 166; p. 828.
Bidwell, John A., Philadelphia, Pa. Loom. No. 1,002,122; Aug. 29; Sp. p. 6223; Gaz. vol. 169; p. 1125.
Bidwell, Noria S. (See Bidwell, Jason A., assignor.)
Bienenstok, Edgar A., Milwaukee, Wis., assignor to Milwaukee Oil Pump & Tank Company. Barrel-manipulating apparatus. No. 1,010,573; Dec. 5; Sp. p. 384; Gaz. vol. 173; p. 61.
Bienhoff, Benjamin B., St. Paul, Minn. Display apparatus. No. 983,344; Feb. 7; Sp. p. 180; Gaz. vol. 163; p. 32.
Bierbaum, Christopher H., *et al.* (See Garretson, Eugene, assignor.)
Bierbaum, Christopher H., Buffalo, N. Y. Trolley. No. 988,754; Apr. 4; Sp. p. 1000; Gaz. vol. 165; p. 159.
Bierce, William W. (See Zalondek, Anton A., assignor.)
Biertuempfel, Hugo C., Newark, N. J. Cork-cutting machine. No. 1,010,579; Dec. 5; Sp. p. 401; Gaz. vol. 173; p. 63.
Bigalke, Rudolph F., assignor, by mesne assignments, to A. C. Clark & Company, Chicago, Ill. Fountain-spittoon. No. 990,218; Apr. 25; Sp. p. 4124; Gaz. vol. 165; p. 738.
Bigazzi, Silvis, and V. Scopetani, Florence, Italy. Punching-machine. No. 980,478; Jan. 3; Sp. p. 644; Gaz. vol. 162; p. 106.

Alphabetical list of patentees—Continued.

Bigelman, Augustus, assignor to The Victor Appliance Company, Watervliet, N. Y. Flexible coupling. No. 1,004,234; Sept. 26; Sp. p. 4542; Gaz. vol. 170; p. 803.
Bigelow Art Manufacturing Company. (See Bigelow, Charles A., assignor.)
Bigelow, Charles A., assignor to Bigelow Art Manufacturing Company, Billings, Mont. Preparing transparencies. No. 981,364; Jan. 10; Sp. p. 2722; Gaz. vol. 162; p. 442.
Bigelow, D. E. (See Baker, Arthur G., assignor.)
Bigelow, David. (See Seaberg, Frederick, assignor.)
Bigelow, John K., assignor of one-half to W. E. Draper, Oakland, Cal. Staple driver and extractor. No. 985,135; Feb. 28; Sp. p. 4016; Gaz. vol. 163; p. 740.
Bigelow, Levi H., Fremont, Mich. Cow-tail holder. No. 986,894; Mar. 14; Sp. p. 2426; Gaz. vol. 164; p. 419.
Biggart, George E., Sandy Hill, N. Y. Bridle-bit. No. 989,479; Apr. 11; Sp. p. 2504; Gaz. vol. 165; p. 424.
Biggert, Florence C., Jr. (See Gardner and Biggert.)
Biggert, Florence C., Jr., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Rolling-mill. No. 980,186; Jan. 3; Sp. p. 17; Gaz. vol. 162; p. 5.
Biggert, Florence C., Jr., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Rolling-mill. No. 980,187; Jan. 3; Sp. p. 18; Gaz. vol. 162; p. 6.
Biggert, Florence C., Jr., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Rolling-mill. No. 984,345; Feb. 14; Sp. p. 2368; Gaz. vol. 163; p. 400.
Biggins, Edward F. (See Lee, Albro, assignor.)
Biggs, Charles W. V. (See Digby and Biggs.)
Biggs, Evert A., Rocky, Okla. Churn and operating mechanism. No. 1,003,395; Sept. 12; Sp. p. 2631; Gaz. vol. 170; p. 452.
Biggs, John, Kimball, Nebr. Grave-protector. No. 991,939; May 9; Sp. p. 2372; Gaz. vol. 166; p. 421.
Bigler, William C. (See McCord and Bigler.)
Bigney, Sidney O., Attleboro, Mass. Fob. No. 1,001,187; Aug. 22; Sp. p. 4282; Gaz. vol. 169; p. 781.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to The Electric Storage Battery Company, Philadelphia, Pa. Alternating-current system of distribution, regulation, and control. No. 983,670; Feb. 7; Sp. p. 895; Gaz. vol. 163; p. 142.
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to The Electric Storage Battery Company, Philadelphia, Pa. System of electrical distribution. No. 984,467; Feb. 14; Sp. p. 2607; Gaz. vol. 163; p. 440.
Bilbrough, Sydney B., Johannesburg, Transvaal. Registering and integrating pressure-gage. No. 999,740; Aug. 8; Sp. p. 1086; Gaz. vol. 169; p. 216.
Bilhartz, Carl, Erstein, Germany. Apparatus for cutting internal and external screw-threads. No. 995,997; June 20; Sp. p. 4136; Gaz. vol. 167; p. 720.
Bill, Edward L., *et al.* (See Jones, William E., assignor.)
Bille, Fred L., assignor of one-tenth to J. T. Casper, Spokane, Wash. Automatic railway-switch. No. 995,317; June 13; Sp. p. 2612; Gaz. vol. 167; p. 452.
Billey, Oscar, Ellendale, N. D. Bridle. No. 996,556; June 27; Sp. p. 5389; Gaz. vol. 167; p. 943.
Billings, Asa W. K., Habana, Cuba. Automatic regulator for feeding fuel to heating apparatus. No. 980,401; Jan. 3; Sp. p. 455; Gaz. vol. 162; p. 78.
Billings, Asa W. K., Habana, Cuba. Pressure-ratio alarm. No. 1,007,178; Oct. 31; Sp. p. 5797; Gaz. vol. 171; p. 1060.
Billings, Frank, Cleveland, Ohio. Sinking deep shafts in water-impregnated ground. No. 989,110; Apr. 11; Sp. p. 1719; Gaz. vol. 165; p. 299.
Billings, William H., Toronto, Ohio. Attachment for clothes-line props. No. 980,915; Jan. 10; Sp. p. 1636; Gaz. vol. 162; p. 283.
Billings, William W., assignor to Hahl Auto Clock Company, Chicago, Ill. Clock. No. 990,697; Apr. 25; Sp. p. 5249; Gaz. vol. 165; p. 905.
Billingsly, Sterling T., Detroit, Mich. Car-door lock. No. 1,010,344; Nov. 28; Sp. p. 5905; Gaz. vol. 172; p. 1051.
Billington, John E. (See Pearce and Billington.)
Billington, John E., *et al.* (See Pearce, Billington, Hollilwell, and Burgess, assignors.)
Billington, Samuel J., and J. A. Stephenson, Elliston, Mont. Railway cattle-guard causeway. No. 999,741; Aug. 8; Sp. p. 1088; Gaz. vol. 169; p. 217.
Billman, Gustus S., Shelbyville, Ind. Machine for cleaning intestines. No. 997,738; July 11; Sp. p. 2411; Gaz. vol. 168; p. 420.
Billman, Gustus S., Shelbyville, Ind. Apparatus for cleaning intestines. No. 998,597; July 25; Sp. p. 4343; Gaz. vol. 168; p. 796.
Billman, Gustus S., Shelbyville, Ind. Machine for cleaning intestines. No. 1,009,215; Nov. 21; Sp. p. 3555; Gaz. vol. 172; p. 621.
Billman, Lemuel A., and L. E. Cornell, Butler, Pa. Lemon-squeezer. No. 991,415; May 2; Sp. p. 1255; Gaz. vol. 166; p. 209.
Billstone, Frank A., Findlay, Ohio. Portable nail and screw holding cabinet. No. 983,116; Jan. 31; Sp. p. 6451; Gaz. vol. 162; p. 1121.
Bilot, George A., *et al.* (See Pascal, Israel, assignor.)
Bilton, Clarence E., Bridgeport, Conn. Gear-cutting machine. No. 991,464; May 2; Sp. p. 1360; Gaz. vol. 166; p. 226.
Bilyeu, Thomas, and W. S. Overlin, Portland, Oreg.; said Overlin assignor to said Bilyeu. Coin-deliverer. No. 985,136; Feb. 28; Sp. p. 4017; Gaz. vol. 163; p. 740.
Binder, Felix, Mülhausen, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dyeing. No. 996,396; June 27; Sp. p. 5063; Gaz. vol. 167; p. 891.
Binder, Gottlob, Rochester, N. Y., assignor to American Laundry Machinery Company, Cincinnati, Ohio. Reversing mechanism. No. 1,001,339; Aug. 22; Sp. p. 4607; Gaz. vol. 169; p. 833.
Bindon, James, Newport, R. I. Antislipping device for horseshoes. No. 1,003,324; Sept. 12; Sp. p. 2496; Gaz. vol. 170; p. 430.
Binford, Edgar P., Chicago, Ill. Centrifugal casting apparatus. No. 986,130; Mar. 7; Sp. p. 783; Gaz. vol. 164; p. 127.
Bingaman, Charles A., Reading, Pa. Power hat-press. No. 985,773; Mar. 7; Sp. p. 10; Gaz. vol. 164; p. 4.
Bingaman, Charles A., Reading, Pa. Hat-trimming machine. No. 1,003,420; Sept. 19; Sp. p. 2687; Gaz. vol. 170; p. 494.
Bingaman, Harvey. (See Miller and Bingaman.)
Bingham, Charles D., Watertown, N. Y., assignor to Prentiss Vise Company. Vise. No. 994,240; June 6; Sp. p. 292; Gaz. vol. 167; p. 50.
Bingham, George A., Cleveland, Ohio. Butter and lard block cutting machine. No. 984,064; Feb. 14; Sp. p. 1772; Gaz. vol. 163; p. 305.
Bingham, George J., New York, N. Y. Lubricator. No. 988,618; Apr. 4; Sp. p. 709; Gaz. vol. 165; p. 113.
Bingham, George J., New York, N. Y. Lubricator. No. 988,853; Apr. 4; Sp. p. 1188; Gaz. vol. 165; p. 190.
Bingham, George W., New York, N. Y., assignor to The Bingham Manufacturing Company. Moving-picture machine. No. 983,021; Jan. 31; Sp. p. 6257; Gaz. vol. 162; p. 1089.
Bingham, Herbert, Lakewood, Ohio. Carbureter. No. 998,457; July 18; Sp. p. 4034; Gaz. vol. 168; p. 716.
Bingham Manufacturing Company, The. (See Bingham, George W., assignor.)
Bingham, Robert O., assignor to The Wagner Manufacturing Co., Sidney, Ohio. Waffle-iron. No. 995,520; June 20; Sp. p. 3106; Gaz. vol. 167; p. 553.
Bingham, Samuel J., San Mateo, Cal. Rotary sand-drier. No. 997,896; July 11; Sp. p. 2780; Gaz. vol. 168; p. 475.
Bingham Trunk Company. (See Van Dusen, Frank L., assignor.)
Binkerd, Aaron T., deceased, Allegheny, Pa.; E. G. Binkerd, executrix, assignor to E. G. Binkerd. Saw-clamp. No. 1,009,016; Nov. 14; Sp. p. 3097; Gaz. vol. 172; p. 515.
Binkerd, Ella G., executrix. (See Binkerd, Aaron T.)
Binkley, Frank C., Sycamore, Ill. Burner for liquid fuel. No. 1,000,229; Aug. 8; Sp. p. 2152; Gaz. vol. 169; p. 383.
Binnie, Alexander, and E. H. E. C. McCarthy, Towamba, New South Wales, Australia. Harness-releasing apparatus. No. 987,213; Mar. 21; Sp. p. 3076; Gaz. vol. 164; p. 557.
Bippart, Achill, Newark, N. J. Combined pencil-protector and paper-cutter. No. 1,002,630; Sept. 5; Sp. p. 1008; Gaz. vol. 170; p. 150.
Bippart, Griscom & Osborn. (See Grasmuk, Henry, assignor.)
Birch, Albert, Belmont, Mass. Cloth spreader and guider. No. 992,703; May 16; Sp. p. 4002; Gaz. vol. 166; p. 714.
Birch, Frank C., Philadelphia, Pa. Extension sidewalk-elevator. No. 982,929; Jan. 31; Sp. p. 6046; Gaz. vol. 162; p. 1058.
Birch, Sydney, Arlington, assignor to American Finishing Machinery Company, Boston, Mass. Cloth-stretching machine. No. 1,005,801; Oct. 17; Sp. p. 2688; Gaz. vol. 171; p. 493.
Birchard, James H., and W. Rexine, Kenosha, Wis. Fluid-gage. No. 1,002,557; Sept. 5; Sp. p. 838; Gaz. vol. 170; p. 123.
Birck, Fred, Jersey City, N. J. Apparatus for grinding stems of feathers. No. 994,633; June 6; Sp. p. 1117; Gaz. vol. 167; p. 183.
Bird, Charles S. (See Clarke, Ralph S., assignor.)
Bird, Charles S. (See Wyman, George R., assignor.)
Bird, Charles S., East Walpole, Mass. Insulating-sheet. No. 999,951; Aug. 8; Sp. p. 1522; Gaz. vol. 169; p. 288.
Bird, Charles S., East Walpole, Mass. Pulp-saver. No. 1,012,974; Dec. 26; Sp. p. 5743; Gaz. vol. 173; p. 1008.
Bird, Frank G., Springfield, Mass. Bread-making machine. No. 999,089; July 25; Sp. p. 5456; Gaz. vol. 168; p. 971.
Bird, George, Earley, near Reading, England. Spring-wheel for road-vehicles. No. 1,006,350; Oct. 17; Sp. p. 3928; Gaz. vol. 171; p. 686.
Bird, James P., Worcester, Mass. Machine for attaching fly-strips to paper boxes. No. 997,263; July 11; Sp. p. 1401; Gaz. vol. 168; p. 258.
Bird, John. (See Morgan and Bird.)
Bird, John L., assignor of one-half to S. Brown, Loraine, Tex. Stalk-cutter. No. 991,601; May 9; Sp. p. 1673; Gaz. vol. 166; p. 307.
Bird, Michael H., Sandersville, Ga. Corn-planter. No. 1,007,517; Oct. 31; Sp. p. 6521; Gaz. vol. 171; p. 1179.

Alphabetical list of patentees—Continued.

Bird, Peter E., assignor of one-half to T. B. Harper, Jenkintown, Pa. Razor-sharpening machine. No. 993,016; May 23; Sp. p. 4692; Gaz. vol. 166; p. 855.
Bird, Roy E. (See Teeter and Bird.)
Bird, Thomas G., assignor of two-fifths to M. P. Bonnett, Eugene, Oreg. Tidal-power device. No. 999,198; Aug. 1; Sp. p. 11; Gaz. vol. 169; p. 4.
Bird, Walter, assignor of one-third to A. S. Buckman, Havana, Ark. Cooker. No. 1,006,903; Oct. 24; Sp. p. 5187; Gaz. vol. 171; p. 912.
Bird, William W., and L. W. Rawson, Worcester, Mass., assignors to Worcester Polytechnic Institute. Raising and lowering mechanism. No. 1,010,574; Dec. 5; Sp. p. 385; Gaz. vol. 173; p. 61.
Birdsey, Seeley P., assignor to Wilcox, Crittenden & Company, Incorporated, Middletown, Conn. Anchor. No. 998,152; July 18; Sp. p. 3365; Gaz. vol. 168; p. 607.
Birdsey-Somers Company. (See Doolittle, James E., assignor.)
Birdsong, Charles, Woodlawn, assignor of one-half to G. L. Allison, Birmingham, Ala. Plow. No. 1,009,824; Nov. 28; Sp. p. 4856; Gaz. vol. 172; p. 877.
Biren, Simon, New York, N. Y. Filter. No. 980,748; Jan. 3; Sp. p. 1216; Gaz. vol. 162; p. 195.
Birkeland, Kristian, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Christiania, Norway. Increasing the working factor (cos. ϕ) and the stability of electric furnaces. No. 1,011,018; Dec. 5; Sp. p. 1349; Gaz. vol. 173; p. 215.
Birkenstock, Pierre, L'Arbresle, France. Producing a cotton substitute from ramie. No. 1,004,974; Oct. 3; Sp. p. 903; Gaz. vol. 171; p. 149.
Birkett, Benjamin F., Norristown, Pa. Preserving eggs. No. 996,696; July 4; Sp. p. 200; Gaz. vol. 168; p. 34.
Birkin, Charles W., and E. Sands, Nottingham, England. Lace. No. 994,634; June 6; Sp. p. 1119; Gaz. vol. 167; p. 183.
Birmingham Iron Foundry, The. (See Crook, William H., assignor.)
Birmingham Iron Foundry. (See Fillingham, Myles P., assignor.)
Birmingham Iron Foundry. (See Gordon, William A., assignor.)
Birmingham, Thomas, *et al.*, trustees. (See Wright, George S., assignor.)
Birnbaum, Henry, New York, N. Y. Attachment for knitting-machines. No. 1,007,264; Oct. 31; Sp. p. 5976; Gaz. vol. 171; p. 1091.
Birnbaum, Ottilie, Vienna, Austria-Hungary, assignor to Westinghouse Lamp Company. Metallic-filament lamp. No. 1,009,129; Nov. 21; Sp. p. 3339; Gaz. vol. 172; p. 590.
Birnie, Alexander A., and A. H. Desilets, East Barre, Vt. Lewis. No. 981,365; Jan. 10; Sp. p. 2725; Gaz. vol. 162; p. 442.
Birnn, Robert, assignor of one-half to I. Gluck, New York, N. Y. Electric switch and cut-out device. No. 992,478; May 16; Sp. p. 3553; Gaz. vol. 166; p. 637.
Biro, Julius, New York, N. Y. Folding box and crate. No. 997,739; July 11; Sp. p. 2415; Gaz. vol. 168; p. 421.
Birrell, James. (See Birrell, William and J.)
Birrell, William and J., Carbonado, Wash. Rotary engine. No. 980,402; Jan. 3; Sp. p. 461; Gaz. vol. 162; p. 79.
Birtels, John M., Walker, Minn. Folding oar-lock. No. 998,153; July 18; Sp. p. 3366; Gaz. vol. 168; p. 607.
Birtman Electric Company. (See English, Frederick A., assignor.)
Bisbing, Harry O., and W. L. Sooy, Coshocton, Ohio. Apparatus for molding bottles. No. 988,165; Mar. 28; Sp. p. 5127; Gaz. vol. 164; p. 909.
Bisceglia, Salvatore, assignor of one-half to L. N. Elkan, Chicago, Ill. Elevator-car-door safety device. No. 992,153; May 16; Sp. p. 2810; Gaz. vol. 166; p. 523.
Bisceglia, Salvatore, assignor of one-half to L. N. Elkan, Chicago, Ill. Elevator safety device. No. 996,051; June 27; Sp. p. 4255; Gaz. vol. 167; p. 773.
Bisceglia, Salvatore, and L. N. Elkan, Chicago, Ill. Elevator safety appliance. No. 996,050; June 27; Sp. p. 4252; Gaz. vol. 167; p. 773.
Bischof, George W., Frankston, Victoria, Australia. Music or like leaf turner. No. 984,065; Feb. 14; Sp. p. 1774; Gaz. vol. 163; p. 305.
Bischoff, Gotthilf. (See Dollinger and Bischoff.)
Bischoff, John B., Mount Clemens, Mich. Pressure and damper regulator. No. 987,610; Mar. 21; Sp. p. 3880; Gaz. vol. 164; p. 691.
Bischoff, Mike P., and J. W. Reynolds, Oilfields, Cal. Air-lift. No. 990,830; May 2; Sp. p. 4; Gaz. vol. 166; p. 3.
Bisell, William C., Wardner, Idaho. Street-indicating device for trolley systems. No. 1,009,637; Nov. 21; Sp. p. 4448; Gaz. vol. 172; p. 767.
Biser, Daniel B., Keyser, W. Va. Railway-tie. No. 997,952; July 18; Sp. p. 2923; Gaz. vol. 168; p. 537.
Bishop, Benjamin S. T. (See Gifford, Burns, and Bishop.)
Bishop, Charles B., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Valve mechanism for door-checks. No. 995,217; June 13; Sp. p. 2420; Gaz. vol. 167; p. 419.
Bishop, Charles B., assignor to Reading Hardware Company, Reading, Pa. Escutcheon-plate. No. 1,005,099; Oct. 3; Sp. p. 1124; Gaz. vol. 171; p. 190.
Bishop, Charles C., St. Louis, Mo. Repeating sign apparatus. No. 1,010,219; Nov. 28; Sp. p. 5641; Gaz. vol. 172; p. 1009.
Bishop, Charles D., *et al.* (See Booth, Charles C., assignor.)
Bishop, Charles D., Hartford, Conn. Gravity box-scale. No. 1,003,421; Sept. 19; Sp. p. 2689; Gaz. vol. 170; p. 494.
Bishop, Charles W., Roanoke, Va. Cigarette and cigar case. No. 990,097; Apr. 18; Sp. p. 3852; Gaz. vol. 165; p. 666.
Bishop, David A. (See Flugstad and Bishop.)
Bishop, Edward W., Bakersfield, Cal. Electrical indicator. No. 994,712; June 13; Sp. p. 1319; Gaz. vol. 167; p. 250.
Bishop, Emery E., Halifax, Nova Scotia, Canada. Side-frame construction for railway-car trucks. No. 997,231; July 4; Sp. p. 1330; Gaz. vol. 168; p. 217.
Bishop, Frank, St. Louis, Mo. Reed for automobile-horns. No. 994,498; June 6; Sp. p. 814; Gaz. vol. 167; p. 137.
Bishop, George A., Leeds, England. Exhaust-silencer for internal-combustion engines and the like. No. 1,009,216; Nov. 21; Sp. p. 3557; Gaz. vol. 172; p. 621.
Bishop, Harry W., Oakland, Cal. Theater and stage construction. No. 1,008,886; Nov. 14; Sp. p. 2807; Gaz. vol. 172; p. 472.
Bishop, Storrs M., Schenectady, N. Y. Power-shovel. No. 991,194; May 2; Sp. p. 785; Gaz. vol. 166; p. 133.
Bishop, William A., assignor of one-half to C. Tomkins, Newark, N. J. Building construction. No. 980,479; Jan. 3; Sp. p. 645; Gaz. vol. 162; p. 107.
Bishop, William A., assignor of one-half to C. Tomkins, Newark, N. J. Construction of buildings. No. 980,480; Jan. 3; Sp. p. 647; Gaz. vol. 162; p. 107.
Bishop, William A., Newark, N. J., assignor of one-half to C. Tomkins, New York, N. Y. Continuous-process rotary plaster calciner, drier, and roaster. No. 986,350; Mar. 7; Sp. p. 1242; Gaz. vol. 164; p. 200.
Bishop, William A., Newark, N. J., assignor of one-half to C. Tomkins, New York, N. Y. Barrel-heading and hoop-driving machine. No. 999,199; Aug. 1; Sp. p. 13; Gaz. vol. 169; p. 5.
Bissel Carpet Sweeper Co. (See Shanahan and Gill, assignors.)
Bissell, Joseph E., Pittsburgh, Pa. Power-transmission device. No. 1,007,518; Oct. 31; Sp. p. 6522; Gaz. vol. 171; p. 1179.
Bister, John, Mamaroneck, N. Y. Umbrella cloth or covering. No. 997,740; July 11; Sp. p. 2417; Gaz. vol. 168; p. 421.
Bither, Benjamin J., Berkeley, Cal. Kiln. No. 994,054; May 30; Sp. p. 6891; Gaz. vol. 166; p. 1238.
Bittenbender, Elias G. (See Bittenbender, William W. and E. G.)
Bittenbender, William W. and E. G., Nanticoke, Pa. Mining-bit. No. 981,243; Jan. 10; Sp. p. 2465; Gaz. vol. 162; p. 400.
Bituminized Road Company. (See Popkess, Michael A., assignor.)
Bivert, Eugene, assignor, by mesne assignments, to P. Corcoran, Chicago, Ill. Fluid-operated clutch. No. 990,188; Apr. 18; Sp. p. 4055; Gaz. vol. 165; p. 697.
Bixby, John L., Jr. (See Tolman and Bixby.)
Bixler, Jerry, Frankfort, Ky. Filter. No. 988,854; Apr. 4; Sp. p. 1192; Gaz. vol. 165; p. 190.
Björgum, Nils, Asker, near Christiania, Norway. Automatic firearm. No. 1,007,911; Nov. 7; Sp. p. 598; Gaz. vol. 172; p. 92.
Bjorklund, Arvid, Minneapolis, Minn. Trammel-head. No. 1,007,424; Oct. 31; Sp. p. 6311; Gaz. vol. 171; p. 1148.
Bjorkman, John G., Chicago, Ill. Game apparatus. No. 1,005,503; Oct. 10; Sp. p. 2032; Gaz. vol. 171; p. 357.
Bjurlund, Johan F., New York, N. Y. Sash-holder. No. 983,475; Feb. 7; Sp. p. 471; Gaz. vol. 163; p. 75.
Blachmann, Michael, Elizabeth, N. J. Swing. No. 993,747; May 30; Sp. p. 6288; Gaz. vol. 166; p. 1135.
Black, Abraham K. L., Sunnyside, Wash. Music-leaf turner. No. 1,006,904; Oct. 24; Sp. p. 5189; Gaz. vol. 171; p. 912.
Black, Ambrose B., Lexington, Okla. Portable gin-saw cleaner. No. 985,137; Feb. 28; Sp. p. 4022; Gaz. vol. 163; p. 741.
Black, Archie L., Oakland, Cal. Novelty illusion. No. 984,414; Feb. 14; Sp. p. 2497; Gaz. vol. 163; p. 423.
Black, Archie L., Oakland, Cal. Billiard-cue. No. 990,098; Apr. 18; Sp. p. 3854; Gaz. vol. 165; p. 667.
Black, Charles. (See Blee and Black.)
Black, Charles E., Cincinnati, Ohio. Oiling-can. No. 1,002,631; Sept. 5; Sp. p. 1009; Gaz. vol. 170; p. 150.
Black, Charles F., Waukegan, Ill. Starch-shovel. No. 1,007,912; Nov. 7; Sp. p. 607; Gaz. vol. 172; p. 93.
Black, Edwin L., assignor of one-half to J. T. Hester, Huntingdon, Tenn. Shaft-releaser. No. 1,003,396; Sept. 12; Sp. p. 2632; Gaz. vol. 170; p. 452.
Black, Ira H., Carnegie, Pa. Trolley-harp. No. 989,323; Apr. 11; Sp. p. 2196; Gaz. vol. 165; p. 373.

Alphabetical list of patentees—Continued.

Black, John, Mendota, Ill. Machine for edge-uniting veneers. No. 1,010,846; Dec. 5; Sp. p. 996; Gaz. vol. 173; p. 156.
Black, John A., Springfield, Ohio. Starter for explosive-engines. No. 984,066; Feb. 14; Sp. p. 1777; Gaz. vol. 163; p. 306.
Black, John C. (See Rheem, Chappell, and Black.)
Black, Lee J., Beaumont, Tex. Steam-feed. No. 993,748; May 30; Sp. p. 6289; Gaz. vol. 166; p. 1135.
Black, Lee J., Beaumont, Tex. Steam-feed. No. 1,004,621; Oct. 3; Sp. p. 158; Gaz. vol. 171; p. 28.
Black, Louis H. (See Gaither and Black.)
Black, Richard, Canonsburg, Pa. Trolley. No. 999,624; Aug. 1; Sp. p. 840; Gaz. vol. 169; p. 147.
Black, William F., East Palestine, Ohio. Concrete tie. No. 1,004,351; Sept. 26; Sp. p. 4762; Gaz. vol. 170; p. 842.
Black, William M., assignor to Scovill Manufacturing Company, Waterbury, Conn. Socket-cap. No. 985,246; Feb. 28; Sp. p. 4312; Gaz. vol. 163; p. 779.
Blackadar, Zebina S., Whitman, assignor to The Emerson Fabric Company, Rockland, Mass. Reinforced textile fabric. No. 1,004,622; Oct. 3; Sp. p. 160; Gaz. vol. 171; p. 28.
Blackburn, Arthur H. (See Ross and Blackburn.)
Blackburn, Cloumbus E., Hodge, La. Burglar-alarm. No. 997,036; July 4; Sp. p. 949; Gaz. vol. 168; p. 151.
Blackburn, Jasper, Kirkwood, Mo. Roller window-screen. No. 1,002,962; Sept. 12; Sp. p. 1745; Gaz. vol. 170; p. 303.
Blackburn, Juditha, Los Angeles, Cal. Skirt-pattern. No. 985,971; Mar. 7; Sp. p. 462; Gaz. vol. 164; p. 74.
Blackburn, Melvin L., and W. A. Stellers, Bellaire, Ohio, assignors to Simmons Hardware Company, St. Louis, Mo. Semaphore-blade. No. 993,643; May 30; Sp. p. 6041; Gaz. vol. 166; p. 1098.
Blackburn, Ross D. (See Johnson, Edgar M., assignor.)
Blackford, Atwell J., Cleveland, Ohio, assignor to American Stove Company, Jersey City, N. J. Oil-burner. No. 990,698; Apr. 25; Sp. p. 5251; Gaz. vol. 165; p. 906.
Blackford, Atwell J., Cleveland, Ohio, assignor to American Stove Company, Jersey City, N. J. Wick blue-flame oil-burner. No. 997,037; July 4; Sp. p. 950; Gaz. vol. 168; p. 151.
Blackledge, John W. (See Tilt, Charles A., assignor.)
Blackman, Isaac. (See Simon, Arthur, assignor.)
Blackman, John E. (See Blackman, William R. and J. E.)
Blackman, Roy C., West Park, Ohio. Attachment for motor-cycles. No. 1,004,975; Oct. 3; Sp. p. 905; Gaz. vol. 171; p. 149.
Blackman, William R. and J. E., Fitchburg, Mass. Bending-machine. No. 997,364; July 11; Sp. p. 1616; Gaz. vol. 168; p. 293.
Blackmond, William C., and G. E. Stoy, Galveston, Tex. Brick fire-box construction. No. 1,003,392; Sept. 12; Sp. p. 2627; Gaz. vol. 170; p. 451.
Blackmore, Charles C., Cincinnati, Ohio. Vehicle-curtain support. No. 985,105; Feb. 21; Sp. p. 3937; Gaz. vol. 163; p. 696.
Blackmore, Henry S., Mount Vernon, assignor to R. E. Robinson and D. C. Spruance, trustees, New York, N. Y. Making nitric or other oxynitrogen acid and metal peroxid. No. 982,466; Jan. 24; Sp. p. 5072; Gaz. vol. 162; p. 875.
Blackwell, E. S., *et al.* (See Maccarthy, Frank J., assignor.)
Blackwell, Harry L., Sydney, New South Wales, Australia. Garment-stiffening device. No. 986,895; Mar. 14; Sp. p. 2427; Gaz. vol. 164; p. 419.
Blackwell, Henry F. (See Goldstein and Blackwell.)
Blackwell, John D. (See Cuttill and Blackwell.)
Blaeker, Joseph, New York, N. Y. Steam-turbine. No. 997,264; July 11; Sp. p. 1404; Gaz. vol. 168; p. 259.
Blaeker, Joseph, New York, N. Y. Fluid seal or lock. No. 999,693; Aug. 1; Sp. p. 974; Gaz. vol. 169; p. 170.
Blagburn, Charles, San Francisco, Cal., assignor to himself, trustee. Apparatus for obtaining nitrogen from air. No. 993,017; May 23; Sp. p. 4697; Gaz. vol. 166; p. 855.
Blagden, John W., Mannheim, and R. Müller, Eilenburg, assignors to C. F. Boehringer & Soehne, Mannheim-Waldhof, Germany. Preparing fatty-acid compounds. No. 1,000,487; Aug. 15; Sp. p. 2715; Gaz. vol. 169; p. 504.
Blagg, Samuel, Erie, Ill. Beehive. No. 987,425; Mar. 21; Sp. p. 3517; Gaz. vol. 164; p. 629.
Blain, Frank A., and C. D. Helm, Fort Worth, Tex. Continuous oil-press. No. 1,007,519; Oct. 31; Sp. p. 6522; Gaz. vol. 171; p. 1180.
Blain, James, Springfield, Mo. Cheese-slicer. No. 1,005,128; Oct. 10; Sp. p. 1184; Gaz. vol. 171; p. 223.
Blaind, William A. (See Symons, Boyle, and Blaind.)
Blaine, Boyd S., Champaign, Ill. File-wrapper. No. 994,241; June 6; Sp. p. 294; Gaz. vol. 167; p. 50.
Blair, Adolph J., Groveland, Mass. Counter-guard for heel-trimming machines. No. 984,883; Feb. 21; Sp. p. 3510; Gaz. vol. 163; p. 621.
Blair Atholl Aeroplane Syndicate Limited. (See Dunne, John W., assignor.)
Blair, Benjamin L., Dryden, Ontario, Canada. Machine for making cement blocks. No. 984,531; Feb. 21; Sp. p. 2788; Gaz. vol. 163; p. 498.
Blair, Charles W. (See Holland, Curtis, assignor.)
Blair, David E., Montreal, Quebec, Canada. Dump-car. No. 1,007,324; Oct. 31; Sp. p. 6104; Gaz. vol. 171; p. 1112.
Blair, David W. (See Antisell and Blair.)
Blair Engineering Company, The. (See Blair, Thomas S., Jr., assignor.)
Blair, Frank R., Glen Ridge, N. J. Shaft-coupling. No. 1,012,506; Dec. 19; Sp. p. 4672; Gaz. vol. 173; p. 802.
Blair, George M., St. Louis, Mo. Sliding-door lock. No. 984,468; Feb. 14; Sp. p. 2610; Gaz. vol. 163; p. 441.
Blair Horse Collar Company. (See Ross, Charles, assignor.)
Blair, John, New York, N. Y. Fountain-pen. No. 1,006,050; Oct. 17; Sp. p. 3245; Gaz. vol. 171; p. 581.
Blair, Oliver C., Cleveland, Ohio. Train-pipe coupling. No. 1,011,727; Dec. 12; Sp. p. 2997; Gaz. vol. 173; p. 500.
Blair, Robert H., Sr., assignor to T. Richardson, Media, Pa. Lantern-bracket. No. 982,762; Jan. 24; Sp. p. 5673; Gaz. vol. 162; p. 972.
Blair, Robert S., New Rochelle, assignor to International Time Recording Company of New York, Endicott, N. Y. Time-recorder. No. 1,010,575; Dec. 5; Sp. p. 387; Gaz. vol. 173; p. 61.
Blair, Robert S., New Rochelle, assignor to International Time Recording Company of New York, Endicott, N. Y. Recorder. No. 1,010,576; Dec. 5; Sp. p. 393; Gaz. vol. 173; p. 62.
Blair, Thomas E., Portland, Oreg. Hame-housing. No. 980,749; Jan. 3; Sp. p. 1217; Gaz. vol. 162; p. 195.
Blair, Thomas S., Jr., Elmhurst, Ill., assignor to The Blair Engineering Company, New York, N. Y. Furnace. No. 1,012,236; Dec. 19; Sp. p. 4145; Gaz. vol. 173; p. 711.
Blair, William, assignor to Rudge-Whitworth Limited, Coventry, England. Coaster-hub for velocipedes and the like. No. 1,004,138; Sept. 26; Sp. p. 4335; Gaz. vol. 170; p. 770.
Blair, William R., assignor to Landis Machine Company, St. Louis, Mo. Thread lock and take-up for sewing-machines. No. 981,521; Jan. 10; Sp. p. 3043; Gaz. vol. 162; p. 496.
Blair, William R., assignor to Landis Machine Company, St. Louis, Mo. Thread-lock for sewing-machines. No. 982,234; Jan. 24; Sp. p. 4554; Gaz. vol. 162; p. 792.
Blair, William R., assignor to Landis Machine Company, St. Louis, Mo. Shuttle for sewing-machines. No. 983,869; Feb. 14; Sp. p. 1337; Gaz. vol. 163; p. 240.
Blair, William R., assignor to Landis Machine Company, St. Louis, Mo. Bobbin-winder for sewing-machines. No. 1,000,577; Aug. 15; Sp. p. 2936; Gaz. vol. 169; p. 537.
Blair, William R., assignor to Landis Machine Company, St. Louis, Mo. Thread-groove cutter for sewing-machines. No. 1,009,716; Nov. 28; Sp. p. 4625; Gaz. vol. 172; p. 840.
Blais, William E., Boston, Mass. Keyhole-guard. No. 1,000,962; Aug. 15; Sp. p. 3754; Gaz. vol. 169; p. 671.
Blaisdell, Benjamin H., Manila, Philippine Islands. Combustion-chamber. No. 1,008,583; Nov. 14; Sp. p. 2167; Gaz. vol. 172; p. 369.
Blaisdell, Benjamin H., Manila, Philippine Islands. Combustion-chamber. No. 1,008,689; Nov. 14; Sp. p. 2401; Gaz. vol. 172; p. 406.
Blake, Albert C. (See Blake, Frank F. C. and A. C.)
Blake, Charles W., Delaware City, Del. Resilient tire. No. 1,008,110; Nov. 7; Sp. p. 995; Gaz. vol. 172; p. 160.
Blake, Charles W., Delaware City, Del. Resilient tire. No. 1,008,111; Nov. 7; Sp. p. 997; Gaz. vol. 172; p. 161.
Blake Crusher and Pulverizer Company. (See Blake, John E. and H. H., assignors.)
Blake, Ernest W., South Croydon, England. Gas controller or regulator. No. 982,702; Jan. 24; Sp. p. 5534; Gaz. vol. 162; p. 953.
Blake, Francis M., assignor of one-half to E. F. Dakin, Worcester, Mass. Car-brake. No. 1,001,499; Aug. 22; Sp. p. 4903; Gaz. vol. 169; p. 886.
Blake, Frank F. C. and A. C., Buffalo, N. Y. Non-refillable bottle. No. 997,645; July 11; Sp. p. 2189; Gaz. vol. 168; p. 388.
Blake, Gene S., Alaska, assignor of two-thirds to J. S. Spoor and one-third to H. T. Blake, Brooklyn, Ind. Cutting-pliers. No. 980,861; Jan. 3; Sp. p. 1460; Gaz. vol. 162; p. 234.
Blake, George A., Boston, Mass. Auxiliary valve for water-pipes, &c. No. 1,010,220; Nov. 28; Sp. p. 5643; Gaz. vol. 172; p. 1010.
Blake, Henry H. (See Blake, John E. and H. H.)
Blake, Henry T., *et al.* (See Blake, Gene S., assignor.)
Blake, Henry W., Ball Ground, Ga. Side frame for car-trucks. No. 990,189; Apr. 18; Sp. p. 4058; Gaz. vol. 165; p. 698.
Blake, John E. and H. H., assignors to Blake Crusher and Pulverizer Company, Pittsburgh, Pa. Pulverizer. No. 1,007,913; Nov. 7; Sp. p. 610; Gaz. vol. 172; p. 93.
Blake, John E. and H. H., assignors to Blake Crusher and Pulverizer Company, Pittsburgh, Pa. Furnace device. No. 1,009,217; Nov. 21; Sp. p. 3560; Gaz. vol. 172; p. 622.

Alphabetical list of patentees—Continued.

Blake, John E. and H. H., assignors to Blake Crusher and Pulverizer Company, Pittsburgh, Pa. Furnace. No. 1,011,312; Dec. 12; Sp. p. 2069; Gaz. vol. 173; p. 354.
Blake, John S., Charlotte, N. C. Foldable car-step. No. 996,201; June 27; Sp. p. 4626; Gaz. vol. 167; p. 825.
Blake and Johnson Company, The. (See Duston, Ernest W., assignor.)
Blake Pump & Condenser Company. (See Blake, William H. and W. L., assignors.)
Blake, Robert S., assignor to Federal Electric Company, Chicago, Ill. Attachment-plug. No. 1,012,975; Dec. 26; Sp. p. 5744; Gaz. vol. 173; p. 1008.
Blake, Washington L. (See Blake, William H. and W. L.)
Blake, William F., Harvey, assignor to Model Kitchen Equipment Company, Chicago, Ill. Sad-iron. No. 1,006,625; Oct. 24; Sp. p. 4574; Gaz. vol. 171; p. 815.
Blake, William F., Harvey, assignor to Model Kitchen Equipment Company, Chicago, Ill. Bench. No. 1,008,007; Nov. 7; Sp. p. 784; Gaz. vol. 172; p. 124.
Blake, William H. and W. L., assignors to Blake Pump & Condenser Company, Fitchburg, Mass. Condenser-pump. No. 988,431; Apr. 4; Sp. p. 300; Gaz. vol. 165; p. 50.
Blakely, Clarence R. (See Challoner and Shipley, assignors.)
Blakeman, William N., Jr., New York, N. Y. Oil and compound thereof. No. 989,225; Apr. 11; Sp. p. 1963; Gaz. vol. 165; p. 338.
Blakeman, William N., Jr., New York, N. Y. Oil and compound thereof. No. 989,226; Apr. 11; Sp. p. 1964; Gaz. vol. 165; p. 339.
Blakeman, William N., Jr., New York, N. Y. Oil and compound thereof. No. 989,227; Apr. 11; Sp. p. 1966; Gaz. vol. 165; p. 339.
Blakemore, Benjamin A. (See Burton and Blakemore.)
Blakemore, Frank P. (See Kepke, George J., assignor.)
Blakemore, Raymond A. (See Patterson, Samuel P., assignor.)
Blaker, James L., Blaker Mills, W. Va. Means for automatically restoring cars after being dumped. No. 986,264; Mar. 7; Sp. p. 1068; Gaz. vol. 164; p. 171.
Blakeslee, George S. (See Bodell, Allen W., assignor.)
Blakeslee, George S., Chicago, Ill. Roll-warmer. No. 988,619; Apr. 4; Sp. p. 712; Gaz. vol. 165; p. 113.
Blakeslee, John R., assignor to The Ajax Manufacturing Co., Cleveland, Ohio. Applying bands onto leaf-springs. No. 988,432; Apr. 4; Sp. p. 304; Gaz. vol. 165; p. 50.
Blakeslee, John R., assignor to The Ajax Manufacturing Company, Cleveland, Ohio. Machine for applying bands on leaf-springs. No. 1,008,941; Nov. 14; Sp. p. 2930; Gaz. vol. 172; p. 489.
Blakeslee, Manley H. (See Jarvis and Blakeslee.)
Blakesley Keyless Lock Company, The. (See Blakesley, Orson J., assignor.)
Blakesley, Orson J., assignor to The Blakesley Keyless Lock Company, Denver, Colo. Keyless lock. No. 992,400; May 16; Sp. p. 3386; Gaz. vol. 166; p. 610.
Blakey, Richard M., Booneville, Mo., assignor of three-fourths to F. D. Anthony and one-fourth to M. J. O'Brien, Montreal, Canada. Nut-lock. No. 982,763; Jan. 24; Sp. p. 5675; Gaz. vol. 162; p. 972.
Blalack, James, Quincy, Ark. Lap-ring or open ring. No. 1,012,318; Dec. 19; Sp. p. 4310; Gaz. vol. 173; p. 739.
Blanchard, Frederick C., and E. B. Crocker, assignors to The Ashcroft Manufacturing Company, Bridgeport, Conn. Gage-movement. No. 980,403; Jan. 3; Sp. p. 464; Gaz. vol. 162; p. 80.
Blanchard, Frederick C., and E. B. Crocker, assignors to The Ashcroft Manufacturing Company, Bridgeport, Conn. Gage-movement. No. 987,039; Mar. 14; Sp. p. 2681; Gaz. vol. 164; p. 464.
Blanchard, Kirk S., Rochester, N. Y. Ventilating system for water-closets. No. 996,906; July 4; Sp. p. 640; Gaz. vol. 168; p. 104.
Blanchard, Martin H., Davisville, Cal. Ditch-making machine. No. 1,012,189; Dec. 19; Sp. p. 4036; Gaz. vol. 173; p. 695.
Bland, Joseph T., Pittsboro, N. C. Fire-alarm. No. 1,009,638; Nov. 21; Sp. p. 4449; Gaz. vol. 172; p. 767.
Blank, A., and M. Latten, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Diazotizable green azo dye. No. 1,006,051; Oct. 17; Sp. p. 3246; Gaz. vol. 171; p. 581.
Blank, George W., Wilkinsburg, Pa. Flag holding and stretching device. No. 984,884; Feb. 21; Sp. p. 3513; Gaz. vol. 163; p. 621.
Blank, Henry, New York, N. Y. Signal-lock. No. 986,962; Mar. 14; Sp. p. 2544; Gaz. vol. 164; p. 440.
Blankinship, William A., and W. Copeland, Corsicana, Tex. Railway-crossing. No. 990,799; Apr. 25; Sp. p. 5464; Gaz. vol. 165; p. 941.
Blanton, Edward A., Jr., Philadelphia, Pa. Nut-lock. No. 987,106; Mar. 21; Sp. p. 2806; Gaz. vol. 164; p. 517.
Blasewitz, Alfons. (See Nowak, John, assignor.)
Blaska, John, Loup City, Nebr. Automatic wagon-brake. No. 999,952; Aug. 8; Sp. p. 1523; Gaz. vol. 169; p. 288.
Blaska, William C., Baraboo, Wis. Lighter. No. 993,950; May 30; Sp. p. 6681; Gaz. vol. 166; p. 1202.
Blass, Lambert, Detroit, Mich. Dough-mixer. No. 1,003,422; Sept. 19; Sp. p. 2691; Gaz. vol. 170; p. 494.
Blasser, Percy L., York, Pa. Film-rewinder. No. 993,337; May 30; Sp. p. 5373; Gaz. vol. 166; p. 993.
Blassingham, Frank H., Superior, Wis. Railway-tie. No. 988,855; Apr. 4; Sp. p. 1194; Gaz. vol. 165; p. 190.
Blatch, Francis H. (See Wilmot, George W., assignor.)
Blatt, Saul S., Altoona, Pa. Metallic tie and rail-fastener. No. 1,009,462; Nov. 21; Sp. p. 4117; Gaz. vol. 172; p. 710.
Blatter, Fréderic G. (See Kloster and Blatter.)
Blattle, Herman I., assignor of one-half to P. Newman, Providence, R. I. Electric railway-switch-operating mechanism. No. 997,897; July 11; Sp. p. 2782; Gaz. vol. 168; p. 475.
Blattle, Herman I., and P. Newman, Providence, R. I. Electric vibrator. No. 994,300; June 6; Sp. p. 405; Gaz. vol. 167; p. 69.
Blatz, Joseph, Karlsruhe, Germany. Cash-register. No. 984,416; Feb. 14; Sp. p. 2498; Gaz. vol. 163; p. 423.
Blau, Fritz, Berlin, Germany, assignor, by mesne assignments, to General Electric Company. Production of divided metals. No. 985,386; Feb. 28; Sp. p. 4605; Gaz. vol. 163; p. 825.
Blau, Fritz, Berlin, Germany, assignor, by mesne assignments, to General Electric Company. Manufacturing metallic illuminating-bodies for electric incandescent lamps. No. 985,387; Feb. 28; Sp. p. 4606; Gaz. vol. 163; p. 826.
Blau, Fritz, Berlin, Germany, assignor, by mesne assignments, to General Electric Company. Apparatus for making metallic filaments for incandescent electric lamps. No. 985,502; Feb. 28; Sp. p. 4885; Gaz. vol. 163; p. 867.
Blau, Hermann, Augsburg, Germany, assignor to Blaugas Company of America. Treating distillation-gases to produce an illuminating liquefied gas. No. 994,369; June 6; Sp. p. 559; Gaz. vol. 167; p. 96.
Blaugas Company of America. (See Blau, Hermann, assignor.)
Blauvelt, Albert, Chicago, Ill. Detector-meter. No. 980,188; Jan. 3; Sp. p. 20; Gaz. vol. 162; p. 6.
Blauvelt, Albert, Chicago, Ill. Automatic fire-extinguisher valve. No. 984,885; Feb. 21; Sp. p. 3515; Gaz. vol. 163; p. 622.
Blauvelt, John S., assignor of one-half to D. J. McCrory, Buffalo, N. Y. Steering-gear for ships. No. 1,001,340; Aug. 22; Sp. p. 4609; Gaz. vol. 169; p. 834.
Blauvelt, William G., New York, N. Y., assignor to American Telephone and Telegraph Company. Supervisory signaling system. No. 990,219; Apr. 25; Sp. p. 4127; Gaz. vol. 165; p. 739.
Blauvelt, William H. (See Pennock, Witherby, Blauvelt, Trump, and Tufts.)
Blaw Collapsible Steel Centering Company. (See McArthur, Charles D., assignor.)
Blay, William L., assignor of one-half to W. H. Morse, Warrens, Wis. Sawmill. No. 993,142; May 23; Sp. p. 4963; Gaz. vol. 166; p. 898.
Blaylock, Claude, Duck Hill, Miss. Seat. No. 1,001,610; Aug. 29; Sp. p. 5146; Gaz. vol. 169; p. 954.
Blayney, Robert O., Niagara Falls, Ontario, Canada. Adjustable form for building tubular structures. No. 1,001,500; Aug. 22; Sp. p. 4905; Gaz. vol. 169; p. 886.
Blechschmidt, Charles E., Connersville, Ind. Auxiliary locking device. No. 981,522; Jan. 10; Sp. p. 3045; Gaz. vol. 162; p. 496.
Blee, Charles O., and C. Black, Roanoke, Ind. Husking apparatus. No. 1,000,984; Aug. 22; Sp. p. 3823; Gaz. vol. 169; p. 712.
Bleimann, Marcus, New York, N. Y. Attachment for baby-carriages. No. 1,000,230; Aug. 8; Sp. p. 2154; Gaz. vol. 169; p. 383.
Bleistein, George. (See Huebner, William C., assignor.)
Bleitz, Louis and L. R., Los Angeles, Cal. Speed varying and reversing mechanism. No. 997,486; July 11; Sp. p. 1842; Gaz. vol. 168; p. 332.
Bleitz, Louis R. (See Bleitz, Louis and L. R.)
Blekum, Hareld. (See Clough, Edwin S., assignor.)
Blenis, Thomas S. O., Rochester, Ind. Fumigating-roost. No. 985,503; Feb. 28; Sp. p. 4888; Gaz. vol. 163; p. 867.
Blennerhassett, William L., Fort William, Ontario, Canada. Car-door. No. 982,787; Jan. 31; Sp. p. 5727; Gaz. vol. 162; p. 1010.
Blériot, Louis, Neuilly-sur-Seine, France. Means for supporting aerial machines. No. 987,540; Mar. 21; Sp. p. 3736; Gaz. vol. 164; p. 668.
Blériot, Louis, Neuilly-sur-Seine, France. Balancing and steering apparatus. No. 1,009,017; Nov. 14; Sp. p. 3098; Gaz. vol. 172; p. 516.
Blevins, David T. (See Lewis, William K., assignor.)
Blevins, Harry E., and L. Brazille, Cove, Oreg. Ribbon-cabinet. No. 989,111; Apr. 11; Sp. p. 1720; Gaz. vol. 165; p. 300.
Blevins, Samuel W., Clarendon, Tex. Transmission-gearing. No. 986,677; Mar. 14; Sp. p. 1952; Gaz. vol. 164; p. 344.
Bley, John M., Philadelphia, Pa. Non-refillable bottle or like vessel. No. 1,012,319; Dec. 19; Sp. p. 4311; Gaz. vol. 173; p. 740.
Blieden, Abraham, Kansas City, Mo. Stamp-moistener. No. 998,951; July 25; Sp. p. 5170; Gaz. vol. 168; p. 923.

Alphabetical list of patentees—Continued.

Blinn, Charles P., assignor to A. M. McPhail Piano Company, Boston, Mass. Hammer-supporting flange for piano-actions. No. 999,480; Aug. 1; Sp. p. 558; Gaz. vol. 169; p. 98.
Blinn, Harry M., Baltimore, Md. Milling process. No. 993,819; May 30; Sp. p. 6436; Gaz. vol. 166; p. 1160.
Blinn, Michael L., Stoneham, Mass. Sash-lock. No. 985,652; Feb. 28; Sp. p. 5193; Gaz. vol. 163; p. 918.
Bliss, Donald M., New York, N. Y. Electric signaling device. No. 982,930; Jan. 31; Sp. p. 6050; Gaz. vol. 162; p. 1058.
Bliss, James E., Faust, N. Y. Rail-tie. No. 991,474; May 9; Sp. p. 1381; Gaz. vol. 166; p. 261.
Bliss, William L., Brooklyn, assignor, by mesne assignments, to The United States Light and Heating Company, New York, N. Y. Connector for electric conductors. No. 983,258; Jan. 31; Sp. p. 6742; Gaz. vol. 162; p. 1169.
Bliss, William L., Brooklyn, assignor, by mesne assignments, to The United States Light and Heating Company, New York, N. Y. Automatic electric train-line coupling. No. 1,011,402; Dec. 5; Sp. p. 2248; Gaz. vol. 173; p. 384.
Blitz, Joseph, Dzn., Rotterdam, Netherlands. Dating-stamp. No. 988,242; Mar. 28; Sp. p. 5270; Gaz. vol. 164; p. 935.
Blizzard Pre-Cooler Company, The. (See Cunningham, John D., assignor.)
Bloch, Alfred. (See Descalles, Engène M. O., assignor.)
Bloch, Jacob, Cincinnati, Ohio. Electric garment-presser. No. 997,953; July 18; Sp. p. 2925; Gaz. vol. 168; p. 537.
Bloch, Jacob, Cincinnati, Ohio. Electric presser for neckties and other articles. No. 997,954; July 18; Sp. p. 2927; Gaz. vol. 168; p. 537.
Blochman, L. A., *et al.* (See Roehrig, Bernard F., assignor.)
Block, Berthold, Erfurt, Germany. Evaporating solutions in which salt is precipitated. No. 1,006,823; Oct. 24; Sp. p. 4994; Gaz. vol. 171; p. 884.
Block, John H., Lewellen, Nebr. Food compound. No. 987,849; Mar. 28; Sp. p. 4412; Gaz. vol. 164; p. 803.
Block, Martin and R., Cozad, Nebr. Shock-loader. No. 988,433; Apr. 4; Sp. p. 306; Gaz. vol. 165; p. 50.
Block, Ralph. (See Block, Martin and R.)
Blodgett, Alando L., South Bend, Ind. Clamping device. No. 990,517; Apr. 25; Sp. p. 4855; Gaz. vol. 165; p. 847.
Blodgett, Alando L., South Bend, Ind. Edge-turning device for blades. No. 990,518; Apr. 25; Sp. p. 4856; Gaz. vol. 165; p. 847.
Blodgett, Charles F., Buchanan, Mich. Sled attachment for vehicles. No. 993,018; May 23; Sp. p. 4699; Gaz. vol. 166; p. 856.
Blodgett, Samuel, Oakdale, Cal. Holdback-strap adjuster. No. 983,972; Feb. 14; Sp. p. 1554; Gaz. vol. 163; p. 273.
Blodgett, Walter R., *et al.* (See Basford, Claude R., assignor.)
Blokusewski, Hans G., Weehawken, N. J. Test-switch for recording-wattmeters. No. 992,539; May 16; Sp. p. 3685; Gaz. vol. 166; p. 659.
Blomberg, Edwin C., assignor of one-half to F. Olander, Rockford, Ill. Equalizer. No. 984,793; Feb. 21; Sp. p. 3352; Gaz. vol. 163; p. 591.
Blomberg, Per G., Liljeholmen, Stockholm, Sweden. Drill-holder or chuck with self-centering device for boring-machines. No. 984,998; Feb. 21; Sp. p. 3726; Gaz. vol. 163; p. 658.
Blomberg, Per G., Liljeholmen, near Stockholm, Sweden, assignor to Meyer & Klein, Hagen, I. W. Germany. Drill-socket. No. 988,302; Apr. 4; Sp. p. 14; Gaz. vol. 165; p. 5.
Blomstrom, Peter, Waukegan, Ill. Pulley and shaft protector. No. 984,185; Feb. 14; Sp. p. 2007; Gaz. vol. 163; p. 345.
Blondel, André, Paris, France, assignor, by mesne assignments, to General Electric Company. Arc-lamp. No. 992,479; May 16; Sp. p. 3556; Gaz. vol. 166; p. 637.
Blondel, André, and G. Dobkevitch, Paris, France, assignors, by mesne assignments, to General Electric Company. Manufacture of electrodes for arc-lamps. No. 991,475; May 9; Sp. p. 1383; Gaz. vol. 166; p. 261.
Blondheim, Bella, *et al.* (See Ruth, Ida M., assignor.)
Blondin, Joseph A., Los Angeles, Cal. Flying-machine. No. 989,520; Apr. 11; Sp. p. 2600; Gaz. vol. 165; p. 439.
Blondin, Joseph A., Los Angeles, Cal. Flying-machine. No. 1,001,120; Aug. 22; Sp. p. 4162; Gaz. vol. 169; p. 761.
Blood, Burr B. (See Manson and Blood.)
Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Beading mechanism for wood-planers. No. 989,480; Apr. 11; Sp. p. 2505; Gaz. vol. 165; p. 424.
Blood, Charles W. H., assignor to S. A. Woods Machine Company, Boston, Mass. Cutter-head for planers. No. 1,011,107; Dec. 5; Sp. p. 1557; Gaz. vol. 173; p. 246.
Blood, George H. (See Olson and Blood.)
Blood, Robert C., Philadelphia, Pa. Hosiery. No. 996,964; July 4; Sp. p. 766; Gaz. vol. 168; p. 125.
Bloodworth, Benjamin P., West Savannah, Ga. Tie-plate. No. 1,006,527; Oct. 24; Sp. p. 4340; Gaz. vol. 171; p. 779.
Bloom, Abraham B. (See Levey, Charles, assignor.)
Bloom, Adde, assignor of one-half to J. Cohen, Rockland, Me. Shade and curtain holder. No. 994,972; June 13; Sp. p. 1933; Gaz. vol. 167; p. 339.
Bloom, Claus F. (See Erb and Bloom.)
Bloom, Edgar J., Tiffin, Ohio. Water-closet bowl. No. 1,008,112; Nov. 7; Sp. p. 1000; Gaz. vol. 172; p. 161.
Bloom, W. E., *et al.* (See Kersteter, James F., assignor.)
Bloomer, Charles T., Newark, N. Y. Paper vessel. No. 996,746; July 4; Sp. p. 292; Gaz. vol. 168; p. 51.
Bloomer, Charles T., Newark, N. Y. Paper vessel. No. 1,004,551; Oct. 3; Sp. p. 2; Gaz. vol. 171; p. 3.
Bloomer, Charles T., Newark, N. Y. Egg-box partition. No. 1,006,716; Oct. 24; Sp. p. 4739; Gaz. vol. 171; p. 844.
Bloomer, Charles T., Newark, N. Y. Folding cup or box. No. 1,009,463; Nov. 21; Sp. p. 4118; Gaz. vol. 172; p. 710.
Bloor, Walter G., Trenton, N. J. Handle. No. 996,052; June 27; Sp. p. 4257; Gaz. vol. 167; p. 774.
Bloss & Wales. (See Cole, Albert L., assignor.)
Blosser Company, The. (See Blosser, Joseph W., assignor.)
Blosser, Joseph W., assignor to The Blosser Company, Atlanta, Ga. Cigarette and making same. No. 984,742; Feb. 21; Sp. p. 3237; Gaz. vol. 163; p. 573.
Blossfield, William D. (See Bachand and Blossfield.)
Blouch, Zero H., Lebanon, Pa. Adjustable book-stand and music-rack. No. 982,567; Jan. 24; Sp. p. 5263; Gaz. vol. 162; p. 908.
Blough, Henry I. (See Mosholder and Blough.)
Blount, Nelson, assignor to United Lamp and Burner Company, New York, N. Y. Lamp. No. 1,008,777; Nov. 14; Sp. p. 2600; Gaz. vol. 172; p. 436.
Blower, Joseph W., Columbus, Ohio. Railway-track construction. No. 981,971; Jan. 17; Sp. p. 4033; Gaz. vol. 162; p. 673.
Blower, Joseph W., Columbus, Ohio. Railway fastening device. No. 999,742; Aug. 8; Sp. p. 1090; Gaz. vol. 169; p. 217.
Blower, Joseph W., Columbus, Ohio. Track connection. No. 999,743; Aug. 8; Sp. p. 1092; Gaz. vol. 169; p. 217.
Blower, Joseph W., Columbus, Ohio. Track connection. No. 999,744; Aug. 8; Sp. p. 1093; Gaz. vol. 169; p. 217.
Blower, Joseph W., Columbus, Ohio. Railway-tie. No. 1,009,717; Nov. 28; Sp. p. 4626; Gaz. vol. 172; p. 840.
Blowski, Alfred A. (See Blowski, John S. and A. A.)
Blowski, John S. and A. A., Oakland, Cal. Recovering sulfuric acid from acid sludge. No. 1,010,221; Nov. 28; Sp. p. 5645; Gaz. vol. 172; p. 1010.
Blue Flame Distillate Burner Company. (See Magoon, Ezra P., assignor.)
Blue, John, Laurinburg, N. C. Fertilizer-distributer. No. 999,295; Aug. 1; Sp. p. 194; Gaz. vol. 169; p. 36.
Blue Ridge Metal Mfg. Company. (See Kail, Charles E., assignor.)
Blugok, Loius, Philadelphia, Pa. Lathe. No. 1,005,504; Oct. 10; Sp. p. 2034; Gaz. vol. 171; p. 357.
Bluhm, Charles A., Michigan City, Ind. Third rail. No. 985,388; Feb. 28; Sp. p. 4608; Gaz. vol. 163; p. 826.
Blum, Abraham, Monterey, Mexico. Manufacture of zinc oxid. No. 993,019; May 23; Sp. p. 4701; Gaz. vol. 166; p. 856.
Blum, Albert, Rorschach, assignor to A. C. Boitel, Herisau, Switzerland. Filling-machine for embroidering-machine shuttles. No. 984,532; Feb. 21; Sp. p. 2790; Gaz. vol. 163; p. 499.
Blum, Eugen, Union Hill, N. J., assignor to The Kny-Scheerer Company. X-ray system. No. 1,003,325; Sept. 12; Sp. p. 2497; Gaz. vol. 170; p. 430.
Blum, Margarete, Halle-on-the-Saale, Germany. Machine for kneading and mixing dough. No. 991,824; May 9; Sp. p. 2143; Gaz. vol. 166; p. 381.
Blumberg & Rindskopf. (See Riethof, Franz, assignor.)
Blumberger, Heinrich O., Leipzig-Gohlis, Germany. Drinking vessel for cages for the transport of birds. No. 1,012,589; Dec. 26; Sp. p. 4860; Gaz. vol. 173; p. 876.
Blume, Charles A., Greenville, Ohio, assignor of one-half to T. J. Sumwalt, Farmland, Ind. Engine. No. 1,009,639; Nov. 21; Sp. p. 4449; Gaz. vol. 172; p. 767.
Blume, Gustav, Sockelstein, Germany. Rocking arrangement for perambulators. No. 980,588; Jan. 3; Sp. p. 892; Gaz. vol. 162; p. 144.
Blume, Max E., Leipzig, Germany. Die. No. 995,399; June 13; Sp. p. 2830; Gaz. vol. 167; p. 481.
Blumenberg, Julius R., Chicago, Ill. Underscore-type. No. 1,009,718; Nov. 28; Sp. p. 4627; Gaz. vol. 172; p. 841.
Blumenberg, Marc A. (See Smith, Abraham L., assignor.)
Blumenthal, Louis, Brooklyn, N. Y. Machine for clamping covers on receptacles. No. 983,117; Jan. 31; Sp. p. 6453; Gaz. vol. 162; p. 1121.
Blumenthal, Louis, Brooklyn, N. Y. Machine for automatically manufacturing sectional buttons. No. 992,540; May 16; Sp. p. 3688; Gaz. vol. 166; p. 660.
Blumer-Streiff, Fritz, Engi, Switzerland. Weaver's shuttle. No. 986,040; Mar. 7; Sp. p. 612; Gaz. vol. 164; p. 98.
Blunck, Henry L., Sioux City, Iowa. Brake-equalizer. No. 1,007,057; Oct. 31; Sp. p. 5500; Gaz. vol. 171; p. 1016.

Alphabetical list of patentees—Continued.

Blundon, William C., and V. H. Esch, Washington, D. C. Substitute light for automobile-lanterns. No. 988,434; Apr. 4; Sp. p. 309; Gaz. vol. 165; p. 51.
Blunt, Laurien E., Wilmette, and T. J. Blunt, Austin, Ill. Hame-fastener. No. 1,011,403; Dec. 12; Sp. p. 2252; Gaz. vol. 173; p. 384.
Blunt, Thomas J. (See Blunt, Laurien E. and T. J.)
Bly, John F., Spring Grove, Ill. Seed-planter. No. 991,940; May 9; Sp. p. 2373; Gaz. vol. 166; p. 421.
Blymyer Iron Works Company, The. (See Bahmann, Richard, assignor.)
Blynt, Herbert S., Cleveland, Ohio. Lubricator. No. 1,008,584; Nov. 14; Sp. p. 2169; Gaz. vol. 172; p. 370.
Blyth, Henry A., assignor of one-half to A. E. Merkel, Cleveland, Ohio. Mausoleum. No. 980,750; Jan. 3; Sp. p. 1219; Gaz. vol. 162; p. 196.
Boardman, Edwin A., Tono, Wash. Baby-pen. No. 1,009,378; Nov. 21; Sp. p. 3926; Gaz. vol. 172; p. 680.
Boardman, Thomas G. (See Extrom and Boardman.)
Boarman, George C. (See Marsh, George A., assignor.)
Boatright, William B. (See McCoy and Boatright.)
Boatwright, Joseph O., *et al.* (See Guerrant, George M., assignor.)
Boatwright, Laurel E., Granger, Iowa. Wrench. No. 988,967; Apr. 11; Sp. p. 1412; Gaz. vol. 165; p. 250.
Boatwright, Walter W., Granger, Iowa. Cattle-guard. No. 1,006,351; Oct. 17; Sp. p. 3931; Gaz. vol. 171; p. 687.
Boatwright, William P., Danville, Va. Fly-paper holder. No. 995,111; June 13; Sp. p. 2218; Gaz. vol. 167; p. 386.
Bobb, Adolph H., New York, N. Y. Fastening. No. 992,638; May 16; Sp. p. 3886; Gaz. vol. 166; p. 692.
Bobbitt, James H., Holstein, Nebr. Sash-fastener. No. 991,416; May 2; Sp. p. 1256; Gaz. vol. 166; p. 210.
Boberg, Gustaf E., Alameda, Cal. Treating peat. No. 993,143; May 23; Sp. p. 4965; Gaz. vol. 166; p. 898.
Boblett, Kinderman M., Dayton, Ohio. Radiator. No. 1,000,068; Aug. 8; Sp. p. 1776; Gaz. vol. 169; p. 327.
Bobo, Charles F., Brooklyn, N. Y. Electric door-alarm. No. 1,012,590; Dec. 26; Sp. p. 4861; Gaz. vol. 173; p. 876.
Bock, Henry L., assignor to W. E. Bock, Toledo, Ohio. Power-transmission mchanism. No. 990,101; Apr. 18; Sp. p. 3864; Gaz. vol. 165; p. 668.
Bock, Johannes, Radebeul, near Dresden, Germany. Producing large well-formed crystals from solutions of different kinds. No. 984,645; Feb. 21; Sp. p. 3035; Gaz. vol. 163; p. 537.
Bock, William E. (See Bock, Henry L., assignor.)
Bock, William E., Toledo, Ohio. Power-transmission mechanism. No. 985,774; Mar. 7; Sp. p. 12; Gaz. vol. 164; p. 5.
Bock, William E., Toledo, Ohio. Power-transmission mechanism. No. 990,099; Apr. 18; Sp. p. 3855; Gaz. vol. 165; p. 667.
Bock, William E., Toledo, Ohio. Power-transmission mechanism. No. 990,100; Apr. 18; Sp. p. 3859; Gaz. vol. 165; p. 667.
Bock, William E., Toledo, Ohio. Power-transmission mechanism. No. 990,190; Apr. 18; Sp. p. 4059; Gaz. vol. 165; p. 698.
Bockhoff, William F., assignor to The National Cash Register Company, Dayton, Ohio. Manifolding account-book. No. 1,010,847; Dec. 5; Sp. p. 1000; Gaz. vol. 173; p. 156.
Bockhoff, William F., and E. J. Von Pein, assignors, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Printing mechanism for cash-registers. No. 985,138; Feb. 28; Sp. p. 4024; Gaz. vol. 163; p. 741.
Bockisch, Karl. (See Welte and Bockisch.)
Bockus, Charles L., Detroit, Mich., and R. G. Hausdorfer, Toledo, Ohio. Cushioning attachment for power-hammers. No. 1,000,769; Aug. 15; Sp. p. 3359; Gaz. vol. 169; p. 604.
Boda, Joseph, assignor to Independent Harvester Company, Plano, Ill. Cord-knotter for grain-binders. No. 995,585; June 20; Sp. p. 3257; Gaz. vol. 167; p. 576.
Boda, Joseph, assignor to Independent Harvester Company, Plano, Ill. Cord-knotter for grain-binders. No. 1,006,177; Oct. 17; Sp. p. 3545; Gaz. vol. 171; p. 627.
Boda, Joseph, assignor to Independent Harvester Company, Plano, Ill. Harvester-reel. No. 1,008,778; Nov. 14; Sp. p. 2602; Gaz. vol. 172; p. 437.
Boda, Joseph, assignor to The Independent Harvester Company, Plano, Ill. Corn gathering and loading machine. No. 1,008,942; Nov. 14; Sp. p. 2932; Gaz. vol. 172; p. 489.
Bode, Alfred, and K. Böttcher, Benrath, near Dusseldorf, Germany. Winding mechanism for electric jib-cranes. No. 1,003,976; Sept. 26; Sp. p. 3924; Gaz. vol. 170; p. 713.
Bode, Peter J., St. Louis, Mo. Pump. No. 996,697; July 4; Sp. p. 201; Gaz. vol. 168; p. 35.
Bodell, Allen W., Wilmette, assignor to G. S. Blakeslee, Chicago, Ill. Ice-cubing machine. No. 1,010,013; Nov. 28; Sp. p. 5247; Gaz. vol. 172; p. 940.
Bodenbach, Robert. (See Peters, Charles L., assignor.)
Bodenstein, Antoinette P., Staatsburg, N. Y. Food-molder. No. 996,449; June 27; Sp. p. 5190; Gaz. vol. 167; p. 909.
Bodkin, John A., New York, N. Y. Rail-joint. No. 1,003,423; Sept. 19; Sp. p. 2692; Gaz. vol. 170; p. 495.
Bodkin, John A., New York, N. Y. Laminated rail-joint. No. 1,005,146; Oct. 10; Sp. p. 1220; Gaz. vol. 171; p. 228.
Bodley, Mark H., and F. T. Kleffman, Altoona, Pa. Grounding-clamp. No. 996,606; July 4; Sp. p. 13; Gaz. vol. 168; p. 4.
Bodman, Walter L., Covington, Ky., assignor to I. Rheinstrom, Cincinnati, Ohio. Bottle-filling apparatus. No. 1,004,623; Oct. 3; Sp. p. 162; Gaz. vol. 171; p. 28.
Bodman, Walter L., Covington, Ky., assignor to I. Rheinstrom, Cincinnati, Ohio, Conveyer. No. 1,004,976; Oct. 3; Sp. p. 907; Gaz. vol. 171; p. 150.
Bodman, Walter L., Covington, Ky., and M. G. Rheinstrom, assignors to I. Rheinstrom, Cincinnati, Ohio. Pitting device. No. 1,010,848; Dec. 5; Sp. p. 1001; Gaz. vol. 173; p. 156.
Bodmer, Christian, assignor to The Stanley Rule & Level Company, New Britain, Conn. Gage. No. 985,389; Feb. 28; Sp. p. 4609; Gaz. vol. 163; p. 826.
Bodmer, Christian, and R. N. Peck, assignors to The Stanley Rule & Level Company, New Britain, Conn. Hinge-butt and mortise gage. No. 985,504; Feb. 28; Sp. p. 4888; Gaz. vol. 163; p. 867.
Bodmer, Christian, and E. A. Schade, assignors to The Stanley Rule & Level Company, New Britain, Conn. Plane. No. 1,012,591; Dec. 26; Sp. p. 4864; Gaz. vol. 173; p. 876.
Bodmer, Ernst. (See De la Harpe and Bodmer.)
Bodnar, Thomas, New York, N. Y. Folding box. No. 988,072; Mar. 28; Sp. p. 4959; Gaz. vol. 164; p. 879.
Bodor, Andor, Elizabeth, N. J. Point-protector for hat-pins. No. 1,002,632; Sept. 5; Sp. p. 1011; Gaz. vol. 170; p. 150.
Bodwell, Harry W., Burlingame, Cal. Code-changing system. No. 998,833; July 25; Sp. p. 4887; Gaz. vol. 168; p. 880.
Body, George L., Hamilton, Ontario, Canada. Automatic weatherproof sash. No. 1,008,113; Nov. 7; Sp. p. 1001; Gaz. vol. 172; p. 162.
Body, Joseph F., Baltimore, Md. Reinforcing device for railway-ties. No. 988,620; Apr. 4; Sp. p. 713; Gaz. vol. 165; p. 114.
Body, Joseph F., Baltimore, Md. Combined rail plate, brace, binder, and protector for railway cross-ties. No. 988,621; Apr. 4; Sp. p. 716; Gaz. vol. 165; p. 114.
Body, William C. D., Grass Valley, Cal. Safety attachment for cars. No. 983,022; Jan. 31; Sp. p. 6261; Gaz. vol. 162; p. 1089.
Boeck, Charles G., assignor to Novelty Manufacturing Co., Jackson, Mich. Automobile-muffler. No. 1,002,801; Sept. 5; Sp. p. 1367; Gaz. vol. 170; p. 208.
Boeck, Charles G., assignor to Novelty Manufacturing Co., Jackson, Mich. Automobile-muffler. No. 1,002,802; Sept. 5; Sp. p. 1369; Gaz. vol. 170; p. 208.
Boeck, Charles H., assignor to Metal Stamping Company, Jackson, Mich. Refrigerator-door. No. 1,000,963; Aug. 15; Sp. p. 3756; Gaz. vol. 169; p. 671.
Boeddener, Ida A., Chicago, Ill. Clothes-receptacle. No. 990,626; Apr. 25; Sp. p. 5064; Gaz. vol. 165; p. 882.
Boegen, John E., Berwyn, assignor to C. P. Monash, Chicago, Ill. Steam, air, and water trap-valve. No. 986,797; Mar. 14; Sp. p. 2201; Gaz. vol. 164; p. 383.
Boehm, Franz. (See Altenberg and Boehm.)
Boehm, Joseph C., Chicago, Ill. Excavating-machine. No. 999,953; Aug. 8; Sp. p. 1526; Gaz. vol. 169; p. 288.
Boehm, Oscar A., New York, N. Y. Towel-rack. No. 1,006,626; Oct. 24; Sp. p. 4576; Gaz. vol. 171; p. 815.
Boehme, Edward H., assignor of one-third to F. Custer, Rankin, Ill. Bale-carrier. No. 1,007,520; Oct. 31; Sp. p. 6526; Gaz. vol. 171; p. 1180.
Boehringer & Soehne, C. F. (See Ach, Lorenz, assignor.)
Boehringer & Soehne, C. F. (See Blagden and Müller, assignors.)
Boekel, Julius, Philadelphia, Pa. Thermostat. No. 983,345; Feb. 7; Sp. p. 184; Gaz. vol. 163; p. 32.
Boekel, Julius, Philadelphia, Pa. Leak-detector. No. 989,691; Apr. 18; Sp. p. 3004; Gaz. vol. 165; p. 529.
Boekel, Julius, Philadelphia, Pa. Centrifugal liquid-testing device. No. 1,001,611; Aug. 29; Sp. p. 5148; Gaz. vol. 169; p. 954.
Boening, Ernest, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Friction rope-drive elevator. No. 994,112; June 6; Sp. p. 14; Gaz. vol. 167; p. 5.
Boerger, William J. (See Smith and Boerger.)
Boericke, Gideon, Philadelphia, Pa. Reducing metallic oxids or other compounds of vanadium, molybdenum, tungsten, or similar metals and producing alloys of these metals. No. 993,338; May 30; Sp. p. 5376; Gaz. vol. 166; p. 994.
Boericke, Gideon, Philadelphia, Pa. Reducing refractory metallic oxids. No. 994,055; May 30; Sp. p. 6892; Gaz. vol. 166; p. 1238.
Boerner, Emile C., assignor to Russell, Burdsall & Ward Bolt and Nut Co., Port Chester, N. Y. Automatic nut-castellating machine. No. 998,229; July 18; Sp. p. 3534; Gaz. vol. 168; p. 635.
Boesch, John E. W., Columbia, Nev. Hose-coupling. No. 983,671; Feb. 7; Sp. p. 901; Gaz. vol. 163; p. 143.
Boesel, Otto J., *et al.* (See Moore, Samuel J., assignor.)

Alphabetical list of patentees—Continued.

Boeshans, Irvin W., Columbus, Ohio. Camera-tripod. No. 1,004,352; Sept. 26; Sp. p. 4764; Gaz. vol. 170; p. 842.
Boesser, George F., Kearny, N. J. Double penholder. No. 989,481; Apr. 11; Sp. p. 2508; Gaz. vol. 165; p. 425.
Boettcher, Fredrick L. J., Washington, D. C. Chimney-top. No. 991,941; May 9; Sp. p. 2375; Gaz. vol. 166; p. 422.
Boettler, George, St. Peters, Mo. Traction-plow. No. 1,004,139; Sept. 26; Sp. p. 4337; Gaz. vol. 170; p. 771.
Boff, Otto C., assignor of one-half to W. J. Boff, Utica, N. Y. Carpet-stretcher. No. 980,404; Jan. 3; Sp. p. 466; Gaz. vol. 162; p. 80.
Boff, Wilbert J. (See Boff, Otto C., assignor.)
Boffin, James A., Chicago, Ill. Surgical instrument. No. 1,006,052; Oct. 17; Sp. p. 3248; Gaz. vol. 171; p. 581.
Bogart, Fred H., Hartford, Conn. Body-yoke. No. 990,627; Apr. 25; Sp. p. 5066; Gaz. vol. 165; p. 882.
Bogdánffy, Alexander, New York, assignor to International Cork Company, Brooklyn, N. Y. Cork-shell-cutting machine. No. 1,012,320; Dec. 19; Sp. p. 4313; Gaz. vol. 173; p. 740.
Bogenhagen, Gustave H., Beemer, Nebr. Rim for automobile-tires. No. 984,186; Feb. 14; Sp. p. 2008; Gaz. vol. 163; p. 345.
Bogenschutz, William C., assignor to Kalamazoo Stove Company, Kalamazoo, Mich. Flask. No. 983,870; Feb. 14; Sp. p. 1339; Gaz. vol. 163; p. 240.
Bogert, Marston T., New York, N. Y. Azo dyestuff. No. 1,012,055; Dec. 19; Sp. p. 3737; Gaz. vol. 173; p. 649.
Boggs, Atwood L. (See Patnaude, William E., assignor.)
Boggs, Atwood L., Boston, Mass. Inverted-bottle cooler. No. 991,417; May 2; Sp. p. 1257; Gaz. vol. 166; p. 210.
Boggs, Edgar C., Nicholasville, Ky. Hat-mark. No. 1,004,977; Oct. 3; Sp. p. 908; Gaz. vol. 171; p. 150.
Boggs, Russell H. (See Etheridge, Harry, assignor.)
Bogle, James R. C., Urmston, England. Disinfectant holder or container. No. 991,825; May 9; Sp. p. 2144; Gaz. vol. 166; p. 382.
Bogue, Reginald C., Medford, N. J. Automobile lamp-moving mechanism. No. 1,002,490; Sept. 5; Sp. p. 701; Gaz. vol. 170; p. 102.
Bohannan, Robert S., and N. Dugger, Ensley, Ala. Rail-joint for weighing-scales. No. 988,542; Apr. 4; Sp. p. 537; Gaz. vol. 165; p. 86.
Bohle, Bruno, Werdau, assignor to Werdauer Textilwerke G. m. b. H., Langenhessen, near Werdau, Germany. Apparatus for condensing fibrous materials preparatory to spinning. No. 996,557; June 27; Sp. p. 5390; Gaz. vol. 167; p. 943.
Bohlin, Carl I., Vesterås, Sweden. Baking-oven. No. 1,012,592; Dec. 26; Sp. p. 4866; Gaz. vol. 173; p. 877.
Bohling, Julius C. (See Bohling, William F. and J. C.)
Bohling, William F., Arcadia, and J. C. Bohling, Glidden, Iowa. Manure-loader. No. 981,052; Jan. 10; Sp. p. 2017; Gaz. vol. 162; p. 332.
Bohlken, Willard C., *et al.* (See Poe, George, assignor.)
Bohm, Horace S. (See Jones and Bohm.)
Böhme, Carl, San Francisco, Cal. Valve. No. 1,004,845; Oct. 3; Sp. p. 646; Gaz. vol. 171; p. 105.
Böhme, Carl, San Francisco, Cal. Oil-burner tip. No. 1,007,325; Oct. 31; Sp. p. 6106; Gaz. vol. 171; p. 1112.
Bohn, Gebhard C., St. Paul, Minn. Refrigerator-trap. No. 989,559; Apr. 18; Sp. p. 2719; Gaz. vol. 165; p. 485.
Bohn, Gebhard C., St. Paul, Minn. Refrigerator-car. No. 1,001,341; Aug. 22; Sp. p. 4616; Gaz. vol. 169; p. 834.
Bohn, Michael, Nagykikinda, Austria-Hungary. Machine for cleaning and sorting clay or the like. No. 988,968; Apr. 11; Sp. p. 1414; Gaz. vol. 165; p. 251.
Boiler Scalers Limited. (See Gilman and Clements, assignors.)
Boin, George S. (See Taylor and Boin.)
Boirault, Louis, Paris, France. Apparatus for braking vehicles. No. 998,458; July 18; Sp. p. 4036; Gaz. vol. 168; p. 716.
Bois, Pierre I., Ottawa, Ontario, Canada. Incinerator. No. 984,646; Feb. 21; Sp. p. 3040; Gaz. vol. 163; p. 538.
Boitano, Angelo J., *et al.* (See Stipe, Robert and W., assignors.)
Boitel, Albert C. (See Blum, Albert, assignor.)
Bokop, Henry D., Defiance, Ohio. Crate. No. 1,006,905; Oct. 24; Sp. p. 5190; Gaz. vol. 171; p. 912.
Boland, Francis P., Providence, R. I. Sawdust-box. No. 981,911; Jan. 17; Sp. p. 3882; Gaz. vol. 162; p. 652.
Boland, John, Decatur, Ill. Acetylene-gas generator. No. 1,001,924; Aug. 29; Sp. p. 5839; Gaz. vol. 169; p. 1062.
Boland, Joseph K., assignor to The Boland Machine and Manufacturing Company, New Orleans, La. Horse-power. No. 996,965; July 4; Sp. p. 767; Gaz. vol. 168; p. 125.
Boland Machine and Manufacturing Company, The. (See Boland, Joseph K., assignor.)
Boland, William J. (See Scott, Richard W., assignor.)
Bolch, Joseph A., New York, N. Y. Packing for piston-rods. No. 1,000,890; Aug. 15; Sp. p. 3601; Gaz. vol. 169; p. 647.
Boldry, Rufus, assignor of one-half to J. Carney, Chatsworth, Ill. Marker for corn-planters. No. 992,401; May 16; Sp. p. 3392; Gaz. vol. 166; p. 611.
Bole, Edward A., Follensbee, W. Va. Brake mechanism. No. 993,339; May 30; Sp. p. 5377; Gaz. vol. 166; p. 994.

Bolgiano, John, Baltimore, Md. Locomotive-furnace device. No. 1,003,228; Sept. 12; Sp. p. 2305; Gaz. vol. 170; p. 395.
Bolick, Charles, Rocky Mount, N. C. Telegraph-key. No. 987,107; Mar. 21; Sp. p. 2808; Gaz. vol. 164; p. 517.
Bolitho, John H., Boone, Iowa. Hose-nozzle and sprinkler. No. 993,498; May 30; Sp. p. 5730; Gaz. vol. 166; p. 1047.
Boll, Karl, Fort Madison, Iowa. Apparatus for extracting and distributing nicotin. No. 1,002,123; Aug. 29; Sp. p. 6228; Gaz. vol. 169; p. 1125.
Bolles, William B., Cleveland, Ohio. Molding-machine. No. 1,006,053; Oct. 17; Sp. p. 3249; Gaz. vol. 171; p. 581.
Bolli, Alexander, and L. Lichtinger, Seattle, Wash. Coin-controlled stamp-seller. No. 1,010,577; Dec. 5; Sp. p. 397; Gaz. vol. 173; p. 62.
Bölling, Friedrich, Oberursel, near Frankfort-on-the-Main, Germany, assignor to The Prometheus Electric Company, New York, N. Y. Electrical cooking vessel. No. 995,434; June 20; Sp. p. 2924; Gaz. vol. 167; p. 522.
Bölling, Friedrich, Oberursel, near Frankfort-on-the-Main, Germany, assignor to The Prometheus Electric Company, New York, N. Y. Electrical resistance. No. 995,435; June 20; Sp. p. 2925; Gaz. vol. 167; p. 522.
Bollinger, Daniel, Cando, N. D. Insect-destroying machine. No. 1,010,578; Dec. 5; Sp. p. 399; Gaz. vol. 173; p. 63.
Bollmann, Friedrich. (See Gehricke, Friedrich, assignor.)
Bölsterli, Heinrich, Zurich, Switzerland. Mast-step. No. 981,610; Jan. 17; Sp. p. 3229; Gaz. vol. 162; p. 548.
Bolt, Joseph, Brooklyn, Fla., assignor to United Paper Company, Atlanta, Ga. Plant-protector. No. 995,657; June 20; Sp. p. 3417; Gaz. vol. 167; p. 602.
Bolte & Weyer Co., The. (See Rockstead, Martin, assignor.)
Bolthoff, Henry, Denver, Colo. Cam for stamp-mills. No. 995,436; June 20; Sp. p. 2927; Gaz. vol. 167; p. 522.
Bolthoff, Henry, Denver, Colo. Compound engine. No. 999,432; Aug. 1; Sp. p. 473; Gaz. vol. 169; p. 83.
Bolting, John G., town of Summit, Waukesha county, Wis. Ice-cutting machine. No. 998,598; July 25; Sp. p. 4345; Gaz. vol. 168; p. 797.
Bolton, Herbert D., assignor to Elliott-Fisher Company, New York, N. Y. Rebound-check for type-writer carriages. No. 996,607; July 4; Sp. p. 14; Gaz. vol. 168; p. 5.
Bolton, James J. (See Murphy and Bolton.)
Bolton, John B., Methuen, assignor to Foster Machine Company, Westfield, Mass. Apparatus for gassing yarn or thread. No. 1,000,770; Aug. 15; Sp. p. 3360; Gaz. vol. 169; p. 605.
Bolton, John C. F., Iowa City, Iowa. Sawing-machine. No. 994,568; June 6; Sp. p. 974; Gaz. vol. 167; p. 161.
Bolz, Christian, Budapest, Austria-Hungary. Producing gases in upright retorts. No. 989,324; Apr. 11; Sp. p. 2198; Gaz. vol. 165; p. 373.
Bolz, Christian, Budapest, Austria-Hungary. Apparatus for charging vertical retorts or chambers. No. 997,742; July 11; Sp. p. 2422; Gaz. vol. 168; p. 422.
Boman, Claes W., assignor to Eagle Pencil Company, New York, N. Y. Pencil. No. 986,896; Mar. 14; Sp. p. 2428; Gaz. vol. 164; p. 420.
Bomblatus, Rudolph J., and F. Caviola, Forbes Road, Pa. Wrench. No. 981,523; Jan. 10; Sp. p. 3047; Gaz. vol. 162; p. 497.
Bomhoff, Waldemar, London, England. Brick-conveyer. No. 1,011,019; Dec. 5; Sp. p. 1350; Gaz. vol. 173; p. 215.
Bommer, Emil, New York, N. Y. Spring-hinge. No. 981,053; Jan. 10; Sp. p. 2021; Gaz. vol. 162; p. 332.
Bond, Albert P. (See Ramsey, Thomas L., assignor.)
Bond Bottle Sealing Company. (See Bond, Samuel C., assignor.)
Bond, Charles J., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 992,844; May 23; Sp. p. 4310; Gaz. vol. 166; p. 794.
Bond, Clarence H. (See Bond, Emilie L. and C. H.)
Bond, Dwight S., assignor of one-half to W. M. Flagg, Conway, Mass. Rotary pump. No. 1,012,237; Dec. 19; Sp. p. 4147; Gaz. vol. 173; p. 711.
Bond, Emilie L. and C. H., Trenton, N. J. Fish-turner. No. 1,005,590; Oct. 10; Sp. p. 2259; Gaz. vol. 171; p. 389.
Bond, Ida M., Forest Hill, N. J. Garment-fitter. No. 986,041; Mar. 7; Sp. p. 613; Gaz. vol. 164; p. 99.
Bond, John T., Palatka, Fla. Burial vault and receptacle. No. 989,482; Apr. 11; Sp. p. 2508; Gaz. vol. 165; p. 425.
Bond, Joseph N. B., New York, N. Y. Apparatus for dispensing cleaning fluids. No. 984,187; Feb. 14; Sp. p. 2010; Gaz. vol. 163; p. 345.
Bond, Joseph T., Spencerville, Md. Machine for making paper receptacles. No. 984,067; Feb. 14; Sp. p. 1782; Gaz. vol. 163; p. 306.
Bond, Rufus L., Gary, Ind. Ignition system for multi-cylinder internal-combustion engines. No. 1,003,424; Sept. 19; Sp. p. 2694; Gaz. vol. 170; p. 495.
Bond, Samuel C., assignor to Bond Bottle Sealing Company, Wilmington, Del. Sealing and capping bottles. No. 1,002,815; Sept. 5; Sp. p. 1394; Gaz. vol. 170; p. 213.

Bond, Samuel C., assignor to Bond Bottle Sealing Company, Wilmington, Del. Apparatus for sealing and capping bottles. No. 1,002,816; Sept. 5; Sp. p. 1396; Gaz. vol. 170; p. 213.
Bond, William A., Lynnfield, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,005,929; Oct. 17; Sp. p. 2989; Gaz. vol. 171; p. 540.
Bone, Raymond O., Little Rock, Ark. Ventilator. No. 982,235; Jan. 24; Sp. p. 4556; Gaz. vol. 162; p. 792.
Bone, William H., Columbus, Ohio. Flower-holder. No. 998,322; July 18; Sp. p. 3772; Gaz. vol. 168; p. 671.
Bonelli, Liborio C., Saltillo, Mexico. Automatic railway-switch. No. 988,073; Mar. 28; Sp. p. 4961; Gaz. vol. 164; p. 880.
Bonfield, Emmons W., Evanston, and J. E. Fellows, Chicago, Ill. Machine for making cardboard blanks. No. 993,749; May 30; Sp. p. 6291; Gaz. vol. 166; p. 1135.
Bonfield, Emmons W., Chicago, and J. E. Fellows, Evanston, Ill. Machine for making cardboard blanks. No. 1,011,906; Dec. 19; Sp. p. 3398; Gaz. vol. 173; p. 596.
Bong Binder Company. (See Wiberg, Sven H., assignor.)
Bonhoeffer, Otto, Elberfeld, and H. Guntrum, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Making acetyl cellulose compounds. No. 987,692; Mar. 28; Sp. p. 4083; Gaz. vol. 164; p. 749.
Bonin, Alexander L., Montreal, Quebec, Canada. Separable tooth-brush. No. 998,744; July 25; Sp. p. 4697; Gaz. vol. 168; p. 850.
Bonin, Alfred O. (See Beaulieu and Bonin.)
Bonine, Charles E., Philadelphia, assignor to Newtown Producing Company, Newtown, Pa. Manifold. No. 999,147; July 25; Sp. p. 5553; Gaz. vol. 168; p. 987.
Bonine, Charles E., assignor to The Electric Service Supplies Company, Philadelphia, Pa. Sign for railway-cars. No. 1,004,978; Oct. 3; Sp. p. 909; Gaz. vol. 171; p. 150.
Bonine, John R., *et al.*, trustees. (See Kenevel, Jeannot W., assignor.)
Bonn, Edward E. (See Huntosh and Bonn.)
Bonnell, James N., Fort Hill, Pa. Rail-chair. No. 982,236; Jan. 24; Sp. p. 4557; Gaz. vol. 162; p. 792.
Bonnell, Levi, Earlville, Ill. Fence-post. No. 1,012,238; Dec. 19; Sp. p. 4148; Gaz. vol. 173; p. 712.
Bonnell, Ralph A., Chicago, Ill. Excavating-tool. No. 994,113; June 6; Sp. p. 18; Gaz. vol. 167; p. 6.
Bonnell, Russell, Elizabeth, N. J. Valve. No. 1,002,491; Sept. 5; Sp. p. 703; Gaz. vol. 170; p. 103.
Bonner, Earl W., Bonnerton, N. C. Whip-lock. No. 985,653; Feb. 28; Sp. p. 5194; Gaz. vol. 163; p. 918.
Bonner, William T., Trenton, N. J., assignor to The Brake Liners Company, Washington, D. C. Brake and brake-liner. No. 980,481; Jan. 3; Sp. p. 652; Gaz. vol. 162; p. 107.
Bonner, William T., Trenton, N. J., assignor to Empire Rubber Manufacturing Company. Rubber fabric. No. 981,524; Jan. 10; Sp. p. 3048; Gaz. vol. 162; p. 497.
Bonness, Wilhelm F., Chicago, Ill. Metallic window-sash. No. 981,972; Jan. 17; Sp. p. 4035; Gaz. vol. 162; p. 673.
Bonnett, Marcellus P. (See Bird, Thomas G., assignor.)
Bonney, Bick R., and O. A. Brown, Wichita, Kans. Door-hanger. No. 1,004,140; Sept. 26; Sp. p. 4340; Gaz. vol. 170; p. 771.
Bonney, Henry L. (See Brown and Bonney.)
Bonnichsen, Bahne. (See Brower and Bonnichsen.)
Bonniefield, A. H., *et al.* (See Martin, William H., assignor.)
Bonniefield, T. W., *et al.* (See Martin, William H., assignor.)
Bonniol, Michel J., Providence, R. I. Manufacturing jewelry. No. 982,237; Jan. 24; Sp. p. 4558; Gaz. vol. 162; p. 793.
Bonsall, Le Roy T., assignor of one-third to A. A. Krieg, Charleston, W. Va. Electromagnetic cutting-tool. No. 998,564; July 18; Sp. p. 4256; Gaz. vol. 168; p. 753.
Bonsall, Seymour W., New York, N. Y. Trunk. No. 1,009,825; Nov. 28; Sp. p. 4856; Gaz. vol. 172; p. 877.
Bonser, John E., Abilene, Tex. Removing ink from paper. No. 1,008,779; Nov. 14; Sp. p. 2604; Gaz. vol. 172; p. 437.
Bonson Dry Concentrator Co. (See Bonson, William W., assignor.)
Bonson, Edward W. (See Kennedy-McGregor, John A., assignor.)
Bonson, William W., assignor to Bonson Dry Concentrator Co., Dubuque, Iowa. Dry ore separation. No. 980,890; Jan. 3; Sp. p. 1548; Gaz. vol. 162; p. 245.
Bonson, William W., assignor to Bonson Dry Concentrator Co., Dubuque, Iowa. Dry ore-separator. No. 980,891; Jan. 3; Sp. p. 1549; Gaz. vol. 162; p. 245.
Bonta, Frank M., assignor to The Clipper Novelty Company, Syracuse, N. Y. Fruit-clipper. No. 987,095; Mar. 14; Sp. p. 2781; Gaz. vol. 164; p. 481.
Boogher, John P., St. Louis, Mo. Railway-tie. No. 980,189; Jan. 3; Sp. p. 21; Gaz. vol. 162; p. 6.
Booher, Claud A., Little Rock, Ark. Cement-brick machine. No. 987,541; Mar. 21; Sp. p. 3737; Gaz. vol. 164; p. 668.
Bookstaber, Max. (See Bookstaber, Morris and M.)
Bookstaber, Morris, New York, N. Y., and M. Bookstaber, Paterson, N. J. Motor. No. 1,000,985; Aug. 22; Sp. p. 3825; Gaz. vol. 169; p. 713.
Bookwalter, Charles A., *et al.* (See Gray, Thomas J., assignor.)
Boone, Charles E., Elk Creek, Nebr. Mail-bag catcher. No. 982,568; Jan. 24; Sp. p. 5265; Gaz. vol. 162; p. 908.
Boone, Daniel. (See Hess, Louis F., assignor.)
Boone, William H., Cincinnati, Ohio. Ornamentation of open-mesh fabrics. No. 998,952; July 25; Sp. p. 5171; Gaz. vol. 168; p. 923.
Booraem, John F., Greenwich, Conn. Life-rail, cap-course, and gutter construction. No. 987,542; Mar. 21; Sp. p. 3739; Gaz. vol. 164; p. 668.
Booraem, Robert E., New York, N. Y. Portable temperature-regulating ventilator. No. 1,000,366; Aug. 15; Sp. p. 2462; Gaz. vol. 169; p. 460.
Boorman, Charles F., Burkett, Nebr. Paddle-wheel for boat propulsion. No. 992,154; May 16; Sp. p. 2813; Gaz. vol. 166; p. 524.
Boorman, George E. (See Austin, Mandley J., assignor.)
Boorse, Le Roy N. (See Bowyer and Boorse.)
Boorum & Pease Loose Leaf Book Company, The. (See Heeter, Thomas E., assignor.)
Boos, Arthur M., Boston, Mass. Display-carton. No. 1,002,633; Sept. 5; Sp. p. 1012; Gaz. vol. 170; p. 151.
Boos, Casper M. B., Oklahoma, Okla. Spring-motor. No. 999,296; Aug. 1; Sp. p. 196; Gaz. vol. 169; p. 37.
Boosted, Henry J., Kenosha, Wis. Bicycle-wheel-rim straightener. No. 1,012,593; Dec. 26; Sp. p. 4867; Gaz. vol. 173; p. 877.
Booth, Albert T., Waterbury, Conn. Swivel connection or coupling. No. 994,815; June 13; Sp. p. 1567; Gaz. vol. 167; p. 287.
Booth, Andrew B. (See Story and Booth.)
Booth, Arthur. (See Sheehan, Murray, and Booth.)
Booth, Charles C., Plainville, assignor to C. D. Bishop, New Britain, and L. M. Schmidt, Hartford, Conn. Egg-beater. No. 1,003,425; Sept. 19; Sp. p. 2696; Gaz. vol. 170; p. 495.
Booth, Charles F., Canandaigua, N. Y. Tray-support. No. 990,519; Apr. 25; Sp. p. 4857; Gaz. vol. 165; p. 847.
Booth, Charles F., Canandaigua, N. Y. Spirit-lamp. No. 990,520; Apr. 25; Sp. p. 4858; Gaz. vol. 165; p. 847.
Booth Co., Thomas. (See Weber, Anton, assignor.)
Booth, Frank G. (See Lee and Booth.)
Booth, Harry J., *et al.* (See Dawson and McAlpine, assignors.)
Booth, James, assignor to Smith and Furbush Machine Company, Philadelphia, Pa. Carding-machine. No. 988,856; Apr. 4; Sp. p. 1196; Gaz. vol. 165; p. 191.
Booth, James A., Everett, assignor of one-half to R. Wyllys and one-half to E. L. Gay, Boston, Mass. Can-soldering machine. No. 1,000,369; Aug. 15; Sp. p. 2467; Gaz. vol. 169; p. 461.
Booth, Jewett. (See Story and Booth.)
Booth, Otis, Saratoga Springs, N. Y. Arch-supporter. No. 997,955; July 18; Sp. p. 2929; Gaz. vol. 168; p. 537.
Booth, Thomas, Boise, Idaho. Rail-fastener. No. 1,006,054; Oct. 17; Sp. p. 3250; Gaz. vol. 171; p. 582.
Booth, Thomas S. (See Stein, Frederick W., assignor.)
Booth, William, Gladwyne, Pa. Lubricator. No. 1,008,780; Nov. 14; Sp. p. 2606; Gaz. vol. 172; p. 437.
Boothby, Charles H., Beverly, Mass. Nut-lock. No. 988,688; Apr. 4; Sp. p. 847; Gaz. vol. 165; p. 137.
Booze, Harry R., Buchanan, Va. Wire-stretcher. No. 1,005,802; Oct. 17; Sp. p. 2690; Gaz. vol. 171; p. 493.
Boozier, Nelson, *et al.* (See Riley, Samuel L., assignor.)
Bopp, Clinton L., Meers, S. D. Composite telegraph and telephone system. No. 1,002,803; Sept. 5; Sp. p. 1372; Gaz. vol. 170; p. 209.
Boraks, Joseph, assignor to Elias Howe Company, Boston, Mass. Music-stand. No. 1,003,427; Oct. 17; Sp. p. 4093; Gaz. vol. 171; p. 714.
Borchardt, Hugo, Charlottenburg, Germany. Trigger mechanism for automatic firearms. No. 987,543; Mar. 21; Sp. p. 3741; Gaz. vol. 164; p. 668.
Borchardt, Hugo, Charlottenburg, Germany. Holder for insertible magazines. No. 989,560; Apr. 18; Sp. p. 2720; Gaz. vol. 165; p. 485.
Borchardt, Hugo, Charlottenburg, Germany. Cartridge-ejecting device for firearms. No. 1,009,464; Nov. 21; Sp. p. 4119; Gaz. vol. 172; p. 710.
Borden, Arthur H., New Bedford, Mass. Fire-escape. No. 990,029; Apr. 18; Sp. p. 3727; Gaz. vol. 165; p. 645.
Borden, Bradford, and W. A. Neracher, assignors to The Borden Company, Warren, Ohio. Taper-thread-cutting tool. No. 1,005,147; Oct. 10; Sp. p. 1222; Gaz. vol. 171; p. 229.
Borden, Charles H., Hartford, Conn. Umbrella attachment. No. 1,007,669; Nov. 7; Sp. p. 18; Gaz. vol. 172; p. 6.
Borden Company, The. (See Bechtel, Milton W., assignor.)
Borden Company, The. (See Borden and Neracher, assignors.)
Borden's Condensed Milk Co. (See Kirkby, Jacques J., assignor.)
Borden's Condensed Milk Company. (See Hausheer, Bernard, assignor.)
Borden's Condensed Milk Company. (See McEwan, Charles F., assignor.)

Alphabetical list of patentees—Continued.

Border, Edmund A., Bolivar, Ohio. Horse-collar. No. 1,008,585; Nov. 14; Sp. p. 2173; Gaz. vol. 172; p. 370.
Border, Edward, Yorkshire, Ohio. Gate. No. 998,459; July 18; Sp. p. 4044; Gaz. vol. 168; p. 717.
Border, William N., and S. P. Love, Trenton, Mo. Shock-absorber. No. 1,001,343; Aug. 22; Sp. p. 4620; Gaz. vol. 169; p. 835.
Borderel, Jean, Paris, France. Bunsen gas-heating burner. No. 1,005,930; Oct. 17; Sp. p. 3000; Gaz. vol. 171; p. 540.
Bordo, Lambert J., Philadelphia, Pa. Strainer-section for flexible metallic pipes. No. 986,678; Mar. 14; Sp. p. 1955; Gaz. vol. 164; p. 344.
Bordo, Lambert J., Philadelphia, Pa. Fluid-pressure valve. No. 988,689; Apr. 4; Sp. p. 849; Gaz. vol. 165; p. 137.
Bordo, Lambert J., Hillside, Pa. Boiler water-column. No. 997,743; July 11; Sp. p. 2423; Gaz. vol. 168; p. 422.
Bordt, Adolf, Mannheim, Germany. Adding-machine. No. 1,012,976; Dec. 26; Sp. p. 5747; Gaz. vol. 173; p. 1009.
Bore, Henry A. (See Bore, John W. and H. A.)
Bore, John W. and H. A., Liverpool, England. Apparatus for untwisting, breaking up, and teasing the fibers in the form of ropes and the like. No. 986,351; Mar. 7; Sp. p. 1245; Gaz. vol. 164; p. 201.
Borein, Charles A., Oakland, Cal. Water-heater. No. 1,000,367; Aug. 15; Sp. p. 2464; Gaz. vol. 169; p. 461.
Borene, Charles. (See Woodcock and Borene.)
Borés, Andrés, Barcelona, Spain. Adjustable mattress. No. 983,118; Jan. 31; Sp. p. 6455; Gaz. vol. 162; p. 1122.
Borg, Frederick G., Chicago, Ill. Hinge device for doors and the like. No. 1,000,707; Aug. 15; Sp. p. 3223; Gaz. vol. 169; p. 582.
Borg, Frederick G., Chicago, Ill. Car-door-operating means. No. 1,000,708; Aug. 15; Sp. p. 3226; Gaz. vol. 169; p. 583.
Borg, Frederick G., Chicago, Ill. Car. No. 1,000,891; Aug. 15; Sp. p. 3603; Gaz. vol. 169; p. 648.
Borgart, Bernhard J. (See Martin, Julius R., assignor.)
Borgen, Oscar, Dallas, Wis. Ensilage-carrier. No. 980,190; Jan. 3; Sp. p. 22; Gaz. vol. 162; p. 7.
Borger, Henry E., Dayton, Ohio, and A. S. Atkins, East St. Louis, Ill. Means for automatically producing and utilizing air-pressure. No. 980,916; Jan. 10; Sp. p. 1637; Gaz. vol. 162; p. 284.
Borges, Joseph, New Bedford, Mass. Toy. No. 1,009,640; Nov. 21; Sp. p. 4451; Gaz. vol. 172; p. 767.
Borgmann, Henry, Washington, D. C. Boring and routing machine. No. 981,743; Jan. 17; Sp. p. 3491; Gaz. vol. 162; p. 592.
Borgstede, Elmer F., Voltaire, N. D. Automatic railway-switch. No. 1,004,735; Oct. 3; Sp. p. 407; Gaz. vol. 171; p. 68.
Bories, Leon L., San Francisco, Cal. Door-signal. No. 1,003,867; Sept. 19; Sp. p. 3644; Gaz. vol. 170; p. 648.
Boring, William F., assignor to J. C. Blair Company, Huntingdon, Pa. Appliance for clamping and transporting tablets or the like in piles. No. 1,005,148; Oct. 10; Sp. p. 1225; Gaz. vol. 171; p. 229.
Borkenhagen, Albert A., St. Louis, Mo. Cockroach-trap. No. 1,000,368; Aug. 15; Sp. p. 2466; Gaz. vol. 169; p. 461.
Borkenhagen, Francis E., Caldwell, Idaho. Flying-machine. No. 1,008,887; Nov. 14; Sp. p. 2810; Gaz. vol. 172; p. 473.
Borkenhagen, Francis E., Caldwell, Idaho. Balancing device for lifting biplanes. No. 1,008,888; Nov. 14; Sp. p. 2812; Gaz. vol. 172; p. 473.
Borkman, Carl O., Victor, Colo. Drill forging and sharpening machine. No. 991,689; May 9; Sp. p. 1872; Gaz. vol. 166; p. 338.
Borlan, George, McKeesport, Pa. Agricultural implement. No. 1,012,321; Dec. 19; Sp. p. 4316; Gaz. vol. 173; p. 741.
Borland, John A., Mina, Nev., assignor of one-eighth to E. Covel, Cincinnati, Ohio. Wrench. No. 995,947; June 20; Sp. p. 4040; Gaz. vol. 167; p. 703.
Bormann, Earnest G., Corsica, S. D. Swingletree. No. 982,788; Jan. 31; Sp. p. 5728; Gaz. vol. 162; p. 1011.
Born, Friedrich W., Charlottenburg, Germany. Steam and water separator. No. 999,481; Aug. 1; Sp. p. 560; Gaz. vol. 169; p. 98.
Born, Walter F., Downers Grove, assignor of forty-nine one-hundredths to R. Miehle, Chicago, Ill. Elastic-fluid motor. No. 1,008,781; Nov. 14; Sp. p. 2608; Gaz. vol. 172; p. 438.
Borner, Otto L., London, England. Internal-combustion engine. No. 1,004,979; Oct. 3; Sp. p. 911; Gaz. vol. 171; p. 151.
Bornside, Harry B., Providence, R. I. Heel and sole protector. No. 1,006,627; Oct. 24; Sp. p. 4576; Gaz. vol. 171; p. 816.
Bornstein, Newton A. (See Gollobin and Bornstein.)
Boroff, Thomas J., Dayton, Ohio. Tube-extractor. No. 989,757; Apr. 18; Sp. p. 3133; Gaz. vol. 165; p. 551.
Borresen, Helge A., Marquette, Mich. Machine for grinding watch-crystals. No. 1,002,124; Aug. 29; Sp. p. 6229; Gaz. vol. 169; p. 1126.
Borries, Ehrmann F. von, White Bear Lake, Minn., assignor to Wheeling Corrugating Company. Sheet-metal-tubing segment. No. 987,693; Mar. 28; Sp. p. 4083; Gaz. vol. 164; p. 749.
Borrmann, Paul, Berlin, Germany. Wooden propeller. No. 1,012,507; Dec. 19; Sp. p. 4674; Gaz. vol. 173; p. 802.
Borroughs, John V., El Paso, Tex. Billiard-cue. No. 988,690; Apr. 4; Sp. p. 851; Gaz. vol. 165; p. 137.
Borst, Andrew J., Jr., Buffalo, N. Y. Vehicle-lock. No. 993,499; May 30; Sp. p. 5731; Gaz. vol. 166; p. 1047.
Borzykowski, Benno, Charlottenburg, Germany. Production of artificial bristles. No. 1,010,222; Nov. 28; Sp. p. 5647; Gaz. vol. 172; p. 1011.
Bosch, Carl, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing ammonia. No. 990,191; Apr. 18; Sp. p. 4063; Gaz. vol. 165; p. 698.
Bosch, Carl, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing ammonium salts. No. 990,192; Apr. 18; Sp. p. 4065; Gaz. vol. 165; p. 698.
Bosch, Carl, and A. Mittasch, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Producing ammonia. No. 993,144; May 23; Sp. p. 4970; Gaz. vol. 166; p. 899.
Bosch, Firm of Robert. (See Honold, Gottlob, assignor.)
Bosch, Firm of Robert. (See Woerner, Eügen, assignor.)
Bosch, Firm of Robert. (See Zähringer, Arnold, assignor.)
Bosch, John N., Jr., Cementon, Pa. Grinding-mill. No. 984,505; Feb. 14; Sp. p. 2695; Gaz. vol. 163; p. 453.
Boshears, Larry. (See Reed, Isaac M., assignor.)
Bosley, Levi, assignor of one-fourth to H. P. and W. D. Hossack, Cedarville, Mich. Hand-wrench. No. 1,004,353; Sept. 26; Sp. p. 4765; Gaz. vol. 170; p. 842.
Bosnic, Frank B. (See Mangan and Bosnic.)
Boss, Homer C., Buffalo, N. Y. Draft-equalizer. No. 998,154; July 18; Sp. p. 3368; Gaz. vol. 168; p. 608.
Boss, Huldah A., St. Louis, Mich. Fruit-picker. No. 997,744; July 11; Sp. p. 2425; Gaz. vol. 168; p. 423.
Boss, Leon A., North Braddock, and W. J. Reardon, Wilmerding, Pa. Snap-flask device. No. 1,008,943; Nov. 14; Sp. p. 2936; Gaz. vol. 172; p. 490.
Boss, Susan, Newark, N. Y. Dish-drainer. No. 986,265; Mar. 7; Sp. p. 1069; Gaz. vol. 164; p. 171.
Bossé, Adolphe E., Pittsburgh, Pa., assignor to Acme Refrigerating Company. Ammonia-generator. No. 1,012,056; Dec. 19; Sp. p. 3739; Gaz. vol. 173; p. 649.
Bosse, Eugene, Salem, Oreg. Machine for treating flax and other fiber-yielding plants. No. 1,001,925; Aug. 29; Sp. p. 5843; Gaz. vol. 169; p. 1062.
Bosse, Hermann, Hecklingen, Germany. Producing juice from beet-roots. No. 1,005,931; Oct. 17; Sp. p. 3001; Gaz. vol 171; p. 541.
Bosset, Félix J., and P. Cachard, assignors to Société Anonyme des Anciens Etablissements Bosset et Cachard, Lyon, France. Loom. No. 1,009,041; Nov. 21; Sp. p. 3156; Gaz. vol. 172; p. 560.
Bosshard, Arnold, assignor to Aktiengesellschaft Arnold B. Heine & Co., Arbon, Switzerland. Fabric-frame for embroidering-machines. No. 981,836; Jan. 17; Sp. p. 3704; Gaz. vol. 162; p. 626.
Bosshard, Arnold, assignor to A. Greuter, Arbon, Switzerland. Embroidering-machine. No. 997,365; July 11; Sp. p. 1617; Gaz. vol. 168; p. 293.
Bossingham, John E., Canton, Ohio. Concrete railway-tie. No. 993,500; May 30; Sp. p. 5733; Gaz. vol. 166; p. 1047.
Bost, Francis W., and B. Gobel, China Grove, N. C.; said Gobel assignor to said Bost. Electrically-operated annunciator. No. 1,004,846; Oct. 3; Sp. p. 648; Gaz. vol. 171; p. 106.
Bostian, Homer C. (See Barrett and Bostian.)
Bostian, James B., Grand Ledge, Mich. Running-gear for automobiles. No. 980,589; Jan. 3; Sp. p. 893; Gaz. vol. 162; p. 144.
Bostick, William, North Braddock, Pa. Wrench. No. 1,003,426; Sept. 19; Sp. p. 2699; Gaz. vol. 170; p. 496.
Bostock, Francis J. (See Drummond and Bostock.)
Boston Automatic Machine Company, The. (See Marston and Cummings, assignors.) (Reissue.)
Boston Brick Company. (See Bennett, Josiah Q., assignor.)
Boston Brick Company. (See Bennett and Parry, assignors.)
Boston Machine Works Company. (See Illingworth, Harry I., assignor.)
Boston Machine Works Company. (See Quinn, Thomas, assignor.)
Boston Pressed Metal Company. (See Wales, Claude A., assignor.)
Bostrom, Axel G. (See Bostrom, John M. and A. G.)
Boström, Johan E. (See Tenow and Boström.)
Bostrom, John M. and A. G., Milwaukee, Wis. Bed-sofa. No. 998,869; July 25; Sp. p. 4976; Gaz. vol. 168; p. 893.
Bostrom, Lars E., Ormond, Fla. Acetylene-gas generator. No. 999,148; July 25; Sp. p. 5554; Gaz. vol. 168; p. 987.
Bostwick Steel Lath Company, The. (See Sanderson, Robert L., assignor.)

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Bostwick, William A., Rochester, N. Y. Jar-closure fastener. No. 1,002,963; Sept. 12; Sp. p. 1747; Gaz. vol. 170; p. 303.
Boswell, Charles T. (See Boswell, Ulyses G. and C. T.)
Boswell, Robert A., Washington, D. C. Amplifying-tube. No. 997,265; July 11; Sp. p. 1408; Gaz. vol. 168; p. 259.
Boswell, Robert A., Washington, D. C. Amplifying-horn for talking-machines. No. 999,954; Aug. 8; Sp. p. 1529; Gaz. vol. 169; p. 289.
Boswell, Samuel H., Norwich, England. Device for starting motor-cars from the driver's seat or footboard. No. 994,370; June 6; Sp. p. 562; Gaz. vol. 167; p. 96.
Boswell, Thomas S. (See Rockwell, Hubert R., assignor.)
Boswell, Ulyses G. and C. T., Durant, Okla. Liquid-fuel burner. No. 994,090; May 30; Sp. p. 6968; Gaz. vol. 166; p. 1249.
Bosworth, Eugene D., and A. C. Staley, Chicago, Ill. Duplicating-stamp. No. 984,533; Feb. 21; Sp. p. 2795; Gaz. vol. 163; p. 499.
Bosworth, Frank E., South Bend, Ind. Refrigerator. No. 994,242; June 6; Sp. p. 295; Gaz. vol. 167; p. 50.
Bosworth, George A., Lincoln, Nebr. Railway-train-order indicator. No. 999,625; Aug. 1; Sp. p. 841; Gaz. vol. 169; p. 147.
Bosworth, Lycurgus J. (See Munden and Bosworth.)
Bosworth, Wendell P., Brockton, Mass. Crosscutting-machine. No. 987,948; Mar. 28; Sp. p. 4681; Gaz. vol. 164; p. 838.
Boszol, Washington, Chicago, Ill. Wheelbarrow. No. 983,200; Jan. 31; Sp. p. 6596; Gaz. vol. 162; p. 1148.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Attachment-plug. No. 985,775; Mar. 7; Sp. p. 17; Gaz. vol. 164; p. 5.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Mechanical movement. No. 993,340; May 30; Sp. p. 5378; Gaz. vol. 166; p. 994.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Mechanical movement. No. 994,114; June 6; Sp. p. 19; Gaz. vol. 167; p. 6.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Mechanical movement. No. 994,713; June 13; Sp. p. 1320; Gaz. vol. 167; p. 250.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Lock for socket-shells. No. 997,598; July 11; Sp. p. 2067; Gaz. vol. 168; p. 370.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Mechanical movement. No. 999,745; Aug. 8; Sp. p. 1094; Gaz. vol. 169; p. 218.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Mechanical movement. No. 999,746; Aug. 8; Sp. p. 1100; Gaz. vol. 169; p. 218.
Both, Tonjes A. C., assignor to I. S. Rosenheim, New York, N. Y. Mechanical movement and electric-light socket. No. 1,007,058; Oct. 31; Sp. p. 5502; Gaz. vol. 171; p. 1016.
Bothe, Otto, and O. Löscher, Berlin, Germany. Speed-indicator for motor-cars and other vehicles. No. 996,966; July 4; Sp. p. 769; Gaz. vol. 168; p. 126.
Bothe, Otto, and O. Löscher, Berlin, Germany. Speed-indicator. No. 1,001,342; Aug. 22; Sp. p. 4618; Gaz. vol. 169; p. 835.
Botsch, Emil. (See Botsch, Jakob and E.)
Botsch, Jakob and E., Rappenau, Germany. Mowing-machine. No. 992,704; May 16; Sp. p. 4004; Gaz. vol. 166; p. 715.
Botsford, Albert H., Manchester Center, Vt. Staging. No. 1,007,843; Nov. 7; Sp. p. 461; Gaz. vol. 172; p. 69.
Bott, Carl P., Leipzig-Sellerhausen, Germany. Gas-burner. No. 1,009,379; Nov. 21; Sp. p. 3927; Gaz. vol. 172; p. 681.
Bottaro, Giacomo, Genoa, Italy. Manufacture of fatty acids. No. 987,426; Mar. 21; Sp. p. 3518; Gaz. vol. 164; p. 629.
Böttcher, Karl. (See Bode and Böttcher.)
Botten, John J., Alcester, S. D. Shingle-truck. No. 993,341; May 30; Sp. p. 5383; Gaz. vol. 166; p. 995.
Böttiger, Friedrich E., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Treatment of mercerized cotton goods. No. 1,002,026; Aug. 29; Sp. p. 6052; Gaz. vol. 169; p. 1095.
Bottle, Edward K., assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Cash-sales book. No. 992,750; May 23; Sp. p. 4111; Gaz. vol. 166; p. 761.
Bottle, Edward K., assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Manifolding sales-book. No. 992,751; May 23; Sp. p. 4112; Gaz. vol. 166; p. 761.
Bottle, Edward K., assignor to The Carter-Crume Company, Limited, Niagara Falls, N. Y. Manifolding sales-book. No. 1,007,844; Nov. 7; Sp. p. 462; Gaz. vol. 172; p. 69.
Bottlers Machinery Manufacturing Company. (See Bastian, Charles L., assignor.)
Bottlers Machinery Manufacturing Company. (See Smith, Horace M., assignor.)
Bottlers Machinery Manufacturing Company. (See Strasburger, Frank C. H., assignor.) (Reissue.)
Bottomley, James R. (See Longsdon and Bottomley.)
Bottomley, William B., London, England. Use of nitrogen-fixing organisms in agriculture or horticulture. No. 982,569; Jan. 24; Sp. p. 5269; Gaz. vol. 162; p. 909.
Bottomly, Edward S., assignor to The Walk Auto Tire Company, Martinsburg, W. Va. Vehicle-wheel. No. 1,006,055; Oct. 17; Sp. p. 3252; Gaz. vol. 171; p. 582.
Bottoms, William L. (See Harris and Bottoms.)
Botts, Barnet N., assignor of one-half to V. Exline, Paso Robles, Cal. Disk plow. No. 1,001,807; Aug. 29; Sp. p. 5572; Gaz. vol. 169; p. 1022.
Botts, Elmer L., and D. Lucas, Frazee, Minn. Attachment for potato-digging machines. No. 992,936; May 23; Sp. p. 4526; Gaz. vol. 166; p. 828.
Botwright, Frederick C., Philadelphia, Pa. Rail-joint. No. 1,003,582; Sept. 19; Sp. p. 3053; Gaz. vol. 170; p. 550.
Botwright, Frederick C., Philadelphia, Pa. Wrench. No. 1,007,179; Oct. 31; Sp. p. 5801; Gaz. vol. 171; p. 1060.
Bouché, William F. (See Jepson and Bouché.)
Boucher, Albert L., Asnières, assignor of one-half to C. Comiot, Paris, France. Apparatus for gas heating stoves and radiators. No. 984,743; Feb. 21; Sp. p. 3239; Gaz. vol. 163; p. 573.
Boucher Cork and Machine Company. (See Karich, Rudolf R., assignor.)
Boucher, Horace E., New York, N. Y., assignor to E. Kiam, Houston, Tex. Coin-controlled vending-machine. No. 994,115; June 6; Sp. p. 22; Gaz. vol. 167; p. 6.
Bouchet, Peter A., Merced, Cal. Earth-boring-auger cutter-head. No. 996,450; June 27; Sp. p. 5191; Gaz. vol. 167; p. 910.
Bouchsein, Max. (See Fried, Johann A., assignor.)
Boughner, George K., Santa Monica, Cal. Clamping device. No. 1,012,508; Dec. 19; Sp. p. 4675; Gaz. vol. 173; p. 803.
Boughton Flying Machine Co., The. (See Boughton, John W., assignor.)
Boughton, James A., Schenectady, N. Y. Fender. No. 983,476; Feb. 7; Sp. p. 472; Gaz. vol. 163; p. 75.
Boughton, John W., Philadelphia, Pa., assignor to The Boughton Flying Machine Co. Aerial navigating device. No. 998,834; July 25; Sp. p. 4890; Gaz. vol. 168; p. 880.
Bouilly, August, Chicago, Ill. Furnace. No. 988,435; Apr. 4; Sp. p. 309; Gaz. vol. 165; p. 51.
Boukofsky, Louis E. (See English, Boukofsky, and Lichtenstein.)
Bourdon, William. (See Kriedter and Bourdon.)
Bourdon, William H. (See Kriedter and Bourdon.)
Bourke, John W., Dorchester, Mass. Pleasure-railway. No. 983,119; Jan. 31; Sp. p. 6456; Gaz. vol. 162; p. 1122.
Bourn, Augustus O. (See Gavin, Edward C., assignor.)
Bourn, James M., Moscow, Idaho. Squirrel-exterminator. No. 997,266; July 11; Sp. p. 1412; Gaz. vol. 168; p. 260.
Bourne, Philip, assignor of one-half to A. Newgarden, New York, N. Y. Split sliding swiveled dental molding-ring. No. 980,751; Jan. 3; Sp. p. 1222; Gaz. vol. 162; p. 196.
Bourne, Theodore F., trustee. (See Waterhouse, Addison G., assignor.)
Bourne, Theodore F., Montclair, N. J. Wind-shield. No. 1,012,239; Dec. 19; Sp. p. 4149; Gaz. vol. 173; p. 712.
Bouscal, Justin P. C., San Francisco, Cal. Floating flying-boat. No. 999,149; July 25; Sp. p. 5556; Gaz. vol. 168; p. 988.
Boutell Manufacturing Company. (See Boutell, William H., assignor.)
Boutell Manufacturing Company. (See Pease, Franklin B., assignor.)
Boutell, William H., assignor to Boutell Manufacturing Company, Rochester, N. Y. Paring apparatus. No. 987,108; Mar. 21; Sp. p. 2809; Gaz. vol. 164; p. 517.
Bouton, Georges. (See Dion and Bouton.)
Bouvier, Greta, Tadworth, England. Garment-fastener. No. 995,218; June 13; Sp. p. 2422; Gaz. vol. 167; p. 420.
Bova, Raphael, Brooklyn, N. Y. Non-refillable bottle. No. 986,042; Mar. 7; Sp. p. 615; Gaz. vol. 164; p. 99.
Bovee, Ransom Y., assignor to Hydro Engine Power and Irrigation Company, Denver, Colo. Water-lift and air-compressor. No. 995,112; June 13; Sp. p. 2220; Gaz. vol. 167; p. 386.
Bovee, Ransom Y., assignor to The Universal Wrench Company, Denver, Colo. Wrench. No. 1,002,215; Sept. 5; Sp. p. 40; Gaz. vol. 170; p. 4.
Bovie, William T., Augusta, assignor of one-half to C. L. Hill, Ann Arbor, Mich. Recording-scale. No. 988,074; Mar. 28; Sp. p. 4965; Gaz. vol. 164; p. 880.
Bowde, Paul W., Waukesha, Wis. Window. No. 993,951; May 30; Sp. p. 6682; Gaz. vol. 166; p. 1202.
Bowdish, Melville S., Los Gatos, Cal. Sectional wagon-bottom. No. 988,543; Apr. 4; Sp. p. 539; Gaz. vol. 165; p. 86.
Bowditch, John F., Boston, Mass. Package. No. 981,744; Jan. 17; Sp. p. 3494; Gaz. vol. 162; p. 592.
Bowditch, John F., Boston, Mass. Brush. No. 986,679; Mar. 14; Sp. p. 1956; Gaz. vol. 164; p. 344.
Bowditch, John F., Boston, Mass. Powder holder and distributer. No. 1,007,425; Oct. 31; Sp. p. 6312; Gaz. vol. 171; p. 1148.
Bowdoin, Harry L., New York, N. Y. Turbine. No. 996,698; July 4; Sp. p. 206; Gaz. vol. 168; p. 35.
Bowdoin, Harry L., New York, N. Y. Submarine salvage apparatus. No. 1,004,552; Oct. 3; Sp. p. 3; Gaz. vol. 171; p. 3.

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Bowen, Edward, Gillett, Wis. Tool for removing vehicle wheels and nuts. No. 1,010,223; Nov. 28; Sp. p. 5648; Gaz. vol. 172; p. 1011.
Bowen, Eugene F. (See Allen, Fred R., assignor.)
Bowen, Fredrick D., and M. C. Hagler, Monett, Mo. Track-sanding device. No. 985,972; Mar. 7; Sp. p. 464; Gaz. vol. 164; p. 74.
Bowen, George W., Auburn, N. Y. Ratchet grease-cup. No. 997,176; July 4; Sp. p. 1225; Gaz. vol. 168; p. 198.
Bowen, Philip A., assignor to L. A. Little, Lynn, Mass. Shoe tree or form. No. 986,680; Mar. 14; Sp. p. 1959; Gaz. vol. 164; p. 345.
Bowen, Russel H., Palmyra, N. J., assignor to The American Pulley Company, Philadelphia, Pa. Holder for bearing material in pulleys. (Reissue.) No. 13,265; July 4; Sp. p. 1386; Gaz. vol. 168; p. 227.
Bowen, Winfred G., Detroit, Mich. Lamp. No. 994,499; June 6; Sp. p. 816; Gaz. vol. 167; p. 137.
Bower, Adolphus L., Lima, Ohio. Toilet mechanism for cars. No. 996,202; June 27; Sp. p. 4637; Gaz. vol. 167; p. 826.
Bower, Fred B., assignor of one-half to E. R. Ramsey, Penn Yan, N. Y. Knob for electric wiring. No. 995,838; June 20; Sp. p. 3823; Gaz. vol. 167; p. 665.
Bower, Jacob M., Lander, Wyo. Hat-stay. No. 1,005,591; Oct. 10; Sp. p. 2260; Gaz. vol. 171; p. 389.
Bower, Samuel M., Chicago, Ill. Traction-wheel. No. 983,023; Jan. 31; Sp. p. 6263; Gaz. vol. 162; p. 1090.
Bowerman, William K., Los Angeles, Cal. Guard for razors and similar implements. No. 988,436; Apr. 4; Sp. p. 311; Gaz. vol. 165; p. 51.
Bowers, Albert J., Worcester, Mass. Multifocal lens for eyeglasses. No. 993,820; May 30; Sp. p. 6438; Gaz. vol. 166; p. 1160.
Bowers, Albert J., Worcester, Mass. Multifocal lens for eyeglasses. (Reissue.) No. 13,298; Oct. 10; Sp. p. 2657; Gaz. vol. 171; p. 458.
Bowers, Bose B., Macon, Ga. Trolley-stand. No. 985,654; Feb. 28; Sp. p. 5196; Gaz. vol. 163; p. 919.
Bowers, Byron, and O. H. Franklin, Canon, Ga., assignors to Cotton Seed and Cotton Improvement Association, Birmingham, Ala. Cotton-seed culler. No. 991,418; May 2; Sp. p. 1259; Gaz. vol. 166; p. 210.
Bowers, Florence J., Spokane, Wash. Razor-blade holder. No. 997,110; July 4; Sp. p. 1084; Gaz. vol. 168; p. 176.
Bowers, Frank J., Cleveland, Ohio. Tape attachment. No. 1,006,056; Oct. 17; Sp. p. 3254; Gaz. vol. 171; p. 583.
Bowers, Fred B., assignor of one-half to E. R. Ramsey, Penn Yan, N. Y. Electric switch. No. 1,012,240; Dec. 19; Sp. p. 4154; Gaz. vol. 173; p. 712.
Bowers, Fredson E., assignor, by mesne assignments, to The Gilbert Manufacturing Co., New Haven, Conn. Carbureter. No. 997,232; July 4; Sp. p. 1331; Gaz. vol. 168; p. 217.
Bowers, Fredson E., assignor, by mesne assignments, to The Gilbert Manufacturing Company, New Haven, Conn. Carbureter. No. 997,233; July 4; Sp. p. 1334; Gaz. vol. 168; p. 218.
Bowers, George W., Somerville, Mass., assignor to Hammel, Riglander & Company, New York, N. Y. Staking-tool. No. 990,422; Apr. 25; Sp. p. 4626; Gaz. vol. 165; p. 813.
Bowers, George W., Somerville, Mass., assignor to Hammel, Riglander & Company, New York, N. Y. Staking-tool. No. 996,053; June 27; Sp. p. 4258; Gaz. vol. 167; p. 774.
Bowers, George W., Somerville, Mass., assignor to Hammel, Riglander & Company, New York, N. Y. Staking-tool. No. 996,054; June 27; Sp. p. 4262; Gaz. vol. 167; p. 774.
Bowers, George W., Somerville, assignor to American Watch Tool Company, Waltham, Mass. Test-indicator. No. 1,001,121; Aug. 22; Sp. p. 4165; Gaz. vol. 169; p. 761.
Bowers, George W., Somerville, assignor of one-half to H. C. Healey, East Bridgewater, and one-half to G. H. Inman, Brockton, Mass. Screw-holding attachment for screw-drivers. No. 989,758; Apr. 18; Sp. p. 3135; Gaz. vol. 165; p. 551.
Bowers, Hunter R. (See Wallace, Alexander, assignor.)
Bowers, John, Longbeach, Cal. Photographic printing, developing, and fixing apparatus. No. 1,006,428; Oct. 17; Sp. p. 4094; Gaz. vol. 171; p. 714.
Bowers, Oscar L., Willard, Ill. Baling-press. No. 988,969; Apr. 11; Sp. p. 1415; Gaz. vol. 165; p. 251.
Bowers, Oscar L., Willard, Ill. Wire-tying device. No. 999,200; Aug. 1; Sp. p. 17; Gaz. vol. 169; p. 5.
Bowers, William F., San Francisco, Cal. Composite conduit and manufacturing same. No. 1,009,465; Nov. 21; Sp. p. 4120; Gaz. vol. 172; p. 711.
Bowers, William G., and S. B. Gardner, New Kensington, Pa. Runner for vehicles. No. 1,005,683; Oct. 10; Sp. p. 2456; Gaz. vol. 171; p. 421.
Bowers, Wilson S., Blandon, Pa. Target-trap. No. 993,501; May 30; Sp. p. 5736; Gaz. vol. 166; p. 1048.
Bowes, George C., New York, N. Y. Dispensing device. No. 990,628; Apr. 25; Sp. p. 5067; Gaz. vol. 165; p. 883.
Bowie, Augustus J., Jr., San Francisco, Cal. Electromagnetic power-transmitting mechanism. No. 982,789; Jan. 31; Sp. p. 5729; Gaz. vol. 162; p. 1011.
Bowie, James, Omaha, Nebr. Metallic packing. No. 989,228; Apr. 11; Sp. p. 1970; Gaz. vol. 165; p. 339.
Bowker, Charles L., Brunswick, Me. Gate-valve. No. 991,690; May 9; Sp. p. 1874; Gaz. vol. 166; p. 338.
Bowker, William, Boston, Mass. Pattern mechanism. No. 1,005,803; Oct. 17; Sp. p. 2691; Gaz. vol. 171; p. 493.
Bowler, William. (See Allen and Bowler.)
Bowles, William R., Hopkinsville, Ky. Lamp-box. No. 1,000,231; Aug. 8; Sp. p. 2156; Gaz. vol. 169; p. 383.
Bowling, James H., Gatliff, Ky. Mail-bag catching and delivering device. No. 993,952; May 30; Sp. p. 6684; Gaz. vol. 166; p. 1203.
Bowman, Alfred. (See Hayes and Bowman.)
Bowman, Benjamin, Springfield, Mo. Ditching-machine. No. 1,003,028; Sept. 12; Sp. p. 1875; Gaz. vol. 170; p. 323.
Bowman, Christian M., Lancaster, Pa. Attachment for engravers' blocks. No. 1,011,108; Dec. 5; Sp. p. 5662; Gaz. vol. 173; p. 247.
Bowman, Edward, and J. A. Wallace, McGill, Nev. Water-purifier. No. 986,897; Mar. 14; Sp. p. 2429; Gaz. vol. 164; p. 420.
Bowman, Ezra. (See Meyers, Hemphill, and Bowman.)
Bowman, George A. (See Cook, Richard, assignor.)
Bowman, George W., Salem, Mo. Brace. No. 1,012,509; Dec. 19; Sp. p. 4677; Gaz. vol. 173; p. 803.
Bowman, Hullbert J., Nodaway, Iowa. Leather-stitching horse. No. 999,360; Aug. 1; Sp. p. 335; Gaz. vol. 169; p. 59.
Bowman, Lee H., Munhall, assignor to Carnegie Steel Company, Pittsburg, Pa. Making armor-plate. No. 996,558; June 27; Sp. p. 5392; Gaz. vol. 167; p. 944.
Bowman, Newton K., North Lawrence, Ohio. Mine-door. No. 988,622; Apr. 4; Sp. p. 719; Gaz. vol. 165; p. 114.
Bowman, Newton K., North Lawrence, Ohio. Mine-gate. No. 992,752; May 23; Sp. p. 4114; Gaz. vol. 166; p. 761.
Bowman, Spencer M. (See Huse and Bowman.)
Bowman, Walter H., Dover, N. H. Flushometer. No. 988,623; Apr. 4; Sp. p. 722; Gaz. vol. 165; p. 114.
Bowman, William C. (See Drawbaugh, Daniel, assignor.)
Bowman, William J. J., Trenton, N. J., assignor to The J. L. Mott Iron Works. Column or post. No. 997,435; July 11; Sp. p. 1739; Gaz. vol. 168; p. 315.
Bown, David E., Pittsburg, Pa. Attachment-plug. No. 1,001,808; Aug. 29; Sp. p. 5575; Gaz. vol. 169; p. 1022.
Bowne, John D., assignor of one-half to S. L. Bevan, New York, N. Y. Safety-crank for explosive-engines. No. 996,608; July 4; Sp. p. 17; Gaz. vol. 168; p. 5.
Bowron, Clara A., New York, N. Y. Collapsible shoe-tree. No. 1,012,978; Dec. 26; Sp. p. 5763; Gaz. vol. 173; p. 1010.
Bowser, La Fayette E., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Valve. No. 998,155; July 18; Sp. p. 3369; Gaz. vol. 168; p. 608.
Bowyer, Charles D., Camden, N. J., and L. N. Boorse, Philadelphia, Pa. Twin bung-spout. No. 1,003,694; Sept. 19; Sp. p. 3302; Gaz. vol. 170; p. 591.
Box Office Ticket Printing Machine Company. (See Vaughan, Thomas M., assignor.)
Box, William A., Denver, Colo. Crushing-machine. No. 1,007,059; Oct. 31; Sp. p. 5506; Gaz. vol. 171; p. 1017.
Boyajean, John A., New York, N. Y. Treatment of rugs, pile fabrics, oriental carpets, and similar textiles. No. 980,752; Jan. 3; Sp. p. 1223; Gaz. vol. 162; p. 197.
Boyce, Arthur, *et al.* (See Benson, Henry M., assignor.)
Boyce, Harrison H., Oyster Bay, N. Y. Alarm-clock. No. 983,672; Feb. 7; Sp. p. 904; Gaz. vol. 163; p. 143.
Boyce, John E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator-door lock. No. 991,691; May 9; Sp. p. 1875; Gaz. vol. 166; p. 339.
Boyce, Thomas J., Chicago, Ill. Extension-card for card systems. No. 981,366; Jan. 10; Sp. p. 2728; Gaz. vol. 162; p. 443.
Boyd, Bertron K. (See Beehler, Charles E., assignor.)
Boyd, Bertron K. (See Beehler, William, assignor.)
Boyd, Edward P., Oklahoma, Okla. System of constructing buildings. No. 991,942; May 9; Sp. p. 2376; Gaz. vol. 166; p. 422.
Boyd, Edward P., Oklahoma, Okla. Fireproof door and window. No. 1,009,218; Nov. 21; Sp. p. 3562; Gaz. vol. 172; p. 622.
Boyd, Eugene, Columbus, Miss. Thill. No. 985,390; Feb. 28; Sp. p. 4612; Gaz. vol. 163; p. 827.
Boyd, Frederic R. C., Lynn, Mass., assignor to General Electric Company. Thrust-bearing. No. 980,482; Jan. 3; Sp. p. 657; Gaz. vol. 162; p. 107.
Boyd, Frederic R. C., Lynn, Mass., assignor to General Electric Company. Emergency governing mechanism. No. 980,483; Jan. 3; Sp. p. 660; Gaz. vol. 162; p. 108.
Boyd, John M., Fond du Lac, Wis. Elevator and carrier apparatus. No. 980,862; Jan. 3; Sp. p. 1461; Gaz. vol. 162; p. 234.
Boyd, John M., Fond du Lac, Wis. Rope-clutch or clutch-pulley. No. 981,525; Jan. 10; Sp. p. 3050; Gaz. vol. 162; p. 497.
Boyd, John R., Asheville, N. C. Couch-rocker. No. 1,011,728; Dec. 12; Sp. p. 2999; Gaz. vol. 173; p. 500.
Boyd, Joseph H. (See Hammond, William C., assignor.)
Boyd, Merlin. (See Woods and Boyd.)

Alphabetical list of patentees—Continued.

Boyd, Richard M. (See Tornwall and Boyd.)
Boyd, Thomas S. (See Stem and Boyd.)
Boyd, William T., Ottumwa, Iowa. Hose-coupling. No. 1,007,326; Oct. 31; Sp. p. 6107; Gaz. vol. 171; p. 1112.
Boye, James H., assignor to The Boye Needle Company, Chicago, Ill. Needle-package. No. 1,004,354; Sept. 26; Sp. p. 4766; Gaz. vol. 170; p. 842.
Boye, James H., assignor to The Boye Needle Company, Chicago, Ill. Commodity-cabinet. No. 1,006,178; Oct. 17; Sp. p. 3547; Gaz. vol. 171; p. 627.
Boye Needle Company, The. (See Boye, James H., assignor.)
Boyer, Allen P., Goshen, Ind. Ladder. No. 1,007,327; Oct. 31; Sp. p. 6109; Gaz. vol. 171; p. 1113.
Boyer, Alva C., Sterling, Ill. Adjustable trestle. No. 1,001,344; Aug. 22; Sp. p. 4622; Gaz. vol. 169; p. 835.
Boyer, Charles, Marengo, Ill. Vacuum cleaning-machine. No. 1,012,800; Dec. 26; Sp. p. 5336; Gaz. vol. 173; p. 950.
Boyer, Fitz H. (See Hadaway and Boyer.)
Boyer, Fred W., Thomasville, Ga. Advertising-post. No. 983,673; Feb. 7; Sp. p. 906; Gaz. vol. 163; p. 144.
Boyer, Herman H., Pensacola, Fla. Turpentine-cup. No. 1,009,641; Nov. 21; Sp. p. 4452; Gaz. vol. 172; p. 767.
Boyer, Martin. (See Misensol and Boyer.)
Boyer, Martin, assignor of one-half to A. A. Wallmark, Lowry, Minn. Rail-joint. No. 1,007,426; Oct. 31; Sp. p. 6313; Gaz. vol. 171; p. 1148.
Boyer, Robert Y., and J. P. Caldwell, San Marcos, Tex. Water-cooling device. No. 998,460; July 18; Sp. p. 4046; Gaz. vol. 168; p. 717.
Boyer, William J., Denver, Colo. Car-sheathing. No. 994,116; June 6; Sp. p. 27; Gaz. vol. 167; p. 7.
Boyett, James V. and T. E., Morris Station, Ga. Motor-plow. No. 996,559; June 27; Sp. p. 5393; Gaz. vol. 167; p. 944.
Boyett, Thomas E. (See Boyett, James V. and T. E.)
Boyette, James J. (See Watson, Morris L., assignor.)
Boyle, Edgar W., Washington, D. C. Railway-rail joint. No. 1,012,510; Dec. 19; Sp. p. 4678; Gaz. vol. 173; p. 803.
Boyle, Jacob. (See Wilson, Edwin, assignor.)
Boyle, James C., Calgary, Alberta, Canada. Clutch for automobile starting devices. No. 1,009,219; Nov. 21; Sp. p. 3563; Gaz. vol. 172; p. 622.
Boyle, James C., Calgary, Alberta, Canada. Starter for automobiles and the like. No. 1,009,276; Nov. 21; Sp. p. 3696; Gaz. vol. 172; p. 643.
Boyle, James E., Lancaster, Pa. Eyeglass-case. No. 1,008,523; Nov. 14; Sp. p. 2026; Gaz. vol. 172; p. 346.
Boyle, James L., Ocean City, N. J., assignor of one-half to J. S. Kneisler, Philadelphia, Pa. Sausage-machine. No. 994,714; June 13; Sp. p. 1328; Gaz. vol. 167; p. 251.
Boyle, James L., Ocean City, N. J., assignor of one-half to J. S. Kneisler, Philadelphia, Pa. Making sausages. No. 1,009,953; Nov. 28; Sp. p. 5101; Gaz. vol. 172; p. 920.
Boyle, Robert J. (See Symons, Boyle, and Blaind.)
Boyler, Emanuel J., Hamilton, Ontario, assignor of sixty-five one-hundredths to W. Kohler, Shelburne, Canada. Buttonhole-sewing-machine attachment. No. 983,265; Feb. 7; Sp. p. 11; Gaz. vol. 163; p. 4.
Boyler, Emanuel J., New Haven, Conn., assignor to The Greist Manufacturing Company. Sewing-machine ruffler. No. 1,011,907; Dec. 19; Sp. p. 3403; Gaz. vol. 173; p. 596.
Boyler, Emanuel J., New Haven, Conn., assignor to The Greist Manufacturing Company. Sewing-machine ruffler. No. 1,011,908; Dec. 19; Sp. p. 3405; Gaz. vol. 173; p. 597.
Boyler, Emanuel J., Hamilton, and W. Kohler, Shelburne, Ontario, Canada. Buttonhole-sewing attachment for sewing-machines. No. 983,264; Feb. 7; Sp. p. 8; Gaz. vol. 163; p. 4.
Boynton, Amos R., Chicago, Ill. Lamp-burner. No. 1,000,370; Aug. 15; Sp. p. 2470; Gaz. vol. 169; p. 462.
Boynton, Eben M., West Newbury, Mass. Railway structure. No. 980,191; Jan. 3; Sp. p. 24; Gaz. vol. 162; p. 7.
Boynton Furnace Company. (See Rouse, Richard, Jr., assignor.)
Boyrie, Harry E. (See Tracy and Boyrie.)
Boys, Charles V., and J. W. Tierney, London, England. Means for producing rapid reciprocating motion. No. 1,007,521; Oct. 31; Sp. p. 6528; Gaz. vol. 171; p. 1181.
Boyum, George A. O., Rushford, Minn. Honeycomb-foundation starter. No. 999,544; Aug. 1; Sp. p. 698; Gaz. vol. 169; p. 119.
Braasch, Henry, Los Angeles, Cal. Bed and lounging table. No. 986,131; Mar. 7; Sp. p. 785; Gaz. vol. 164; p. 127.
Brabrook, George H., Taunton, Mass. Making molds for metal castings. No. 984,469; Feb. 14; Sp. p. 2612; Gaz. vol. 163; p. 441.
Bracey, Isaac. (See Catchings, Tom, assignor.)
Brach, Leon S., New York, N. Y. Lightning-arrester. No. 1,004,235; Sept. 26; Sp. p. 4544; Gaz. vol. 170; p. 804.
Brach, Leon S., New York, N. Y. Composition of matter. No. 1,004,847; Oct. 3; Sp. p. 650; Gaz. vol. 171; p. 106.
Bracher, William F., San Jose, Cal. Motor-cycle tandem attachment. No. 1,000,771; Aug. 15; Sp. p. 3371; Gaz. vol. 169; p. 605.
Bracke, Mathias J., Little Falls, Minn. Belt-loop. No. 996,203; June 27; Sp. p. 4629; Gaz. vol. 167; p. 826.
Bracken, John W., Lakeland, Fla. Engine-crank. No. 995,948; June 20; Sp. p. 4042; Gaz. vol. 167; p. 703.
Brackenbury, Edward W., assignor to The T. L. Smith Co., Milwaukee, Wis. Machine for mixing tar macadam. No. 1,010,114; Nov. 28; Sp. p. 5441; Gaz. vol. 172; p. 975.
Brackett, Edwin E., Central Falls, R. I. Electric high-water alarm. No. 987,694; Mar. 28; Sp. p. 4085; Gaz. vol. 164; p. 750.
Brackett, Frederick, Washington, D. C. Air-craft. No. 981,367; Jan. 10; Sp. p. 2729; Gaz. vol. 162; p. 443.
Brackins, James G., Tazewell, Tenn. Washboard. No. 997,111; July 4; Sp. p. 1085; Gaz. vol. 168; p. 176.
Bracy, Edward L., Scotland Neck, assignor to R. H. Wright, Durham, N. C. Machinery for introducing inclosed packets into sliding trays and boxes. No. 980,917; Jan. 10; Sp. p. 1639; Gaz. vol. 162; p. 284.
Bradbury, Frederick G. (See Jungren, Gusten, assignor.)
Bradbury, George J., Twining City, D. C. Wheel. No. 1,006,179; Oct. 17; Sp. p. 3549; Gaz. vol. 171; p. 628.
Bradbury, John, Deepear, assignor to Samuel Fox and Company, Limited, Stockbridge Works, near Sheffield, England. Frame of umbrellas and the like. No. 1,001,728; Aug. 29; Sp. p. 5393; Gaz. vol. 169; p. 995.
Bradbury, Richard H. (See Beasley and Bradbury.)
Braddock, Isaac A., Haddonfield, N. J., assignor of one-sixth to W. C. Codd, Baltimore, Md., one-sixth to N. A. Kestler and one-sixth to D. E. Anthony, Washington, D. C. Treating ores. No. 987,850; Mar. 28; Sp. p. 4413; Gaz. vol. 164; p. 803.
Braddock, Isaac A., Haddonfield, N. J., assignor of one-sixth to W. C. Codd, Baltimore, Md., one-sixth to N. A. Kestler and one-sixth to D. E. Anthony, Washington, D. C. Apparatus for treating ores. No. 988,437; Apr. 4; Sp. p. 314; Gaz. vol. 165; p. 52.
Braddock Ornamental Iron and Wire Works. (See Vanderpool, Harry, assignor.)
Bradfield, William H., Pomeroy, Ohio. Toy. No. 995,053; June 13; Sp. p. 2115; Gaz. vol. 167; p. 367.
Bradford, Alexander O., Boston, Mass. Hydrocarbon-burner. No. 994,117; June 6; Sp. p. 29; Gaz. vol. 167; p. 7.
Bradford, Charles E., Lakeview, Wash. Trolley-pole. No. 989,112; Apr. 11; Sp. p. 1723; Gaz. vol. 165; p. 300.
Bradford, Chester. (See Chatfield, George L., assignor.)
Bradford, Chester, Indianapolis, Ind. Tally-box. No. 1,005,592; Oct. 10; Sp. p. 2262; Gaz. vol. 171; p. 389.
Bradford, Edward S., Jr., Chicopee, Mass., and M. Olson, Bridgeport, Conn.; said Olson assignor to said Bradford. Stroke-adjusting mechanism for power-hacksaws. No. 981,837; Jan. 17; Sp. p. 3705; Gaz. vol. 162; p. 627.
Bradford, Edward S., Jr., Chicopee, Mass., and M. Olson, Bridgeport, Conn.; said Olson assignor to said Bradford. Power-hacksaw. No. 988,624; Apr. 4; Sp. p. 725; Gaz. vol. 165; p. 115.
Bradford, Edward S., Jr., Chicopee, Mass., and M. Olson, Bridgeport, Conn.; said Olson assignor to said Bradford. Power-hacksaw. No. 1,004,651; Oct. 3; Sp. p. 218; Gaz. vol. 171; p. 38.
Bradford, Edward S., Jr., Chicopee, Mass., and M. Olson, Bridgeport, Conn.; said Olson assignor to said Bradford. Portable hacksaw. No. 1,004,736; Oct. 3; Sp. p. 411; Gaz. vol. 171; p. 68.
Bradford, Fred W. R., Melrose, Mass. Combined brush and cap for bottles and similar containers. No. 988,544; Apr. 4; Sp. p. 540; Gaz. vol. 165; p. 86.
Bradford, Irving L., Chicago, Ill. Display appliance. No. 984,261; Feb. 14; Sp. p. 2208; Gaz. vol. 163; p. 373.
Bradford, James E., Durham, N. C. Spiral-screw stake. No. 1,011,729; Dec. 12; Sp. p. 3000; Gaz. vol. 173; p. 500.
Bradford, John D., and B. R. Moore, Sacramento, Cal. Circuit-breaker. No. 990,471; Apr. 25; Sp. p. 4720; Gaz. vol. 165; p. 830.
Bradford & Lasher. (See Lasher, Frank, assignor.)
Bradford, William J. D., Killeen, Tex. Airship. No. 980,753; Jan. 3; Sp. p. 1225; Gaz. vol. 162; p. 197.
Bradley, Abner J., Petersburg, Nebr. Manure-fork and lifting-derrick. No. 993,145; May 23; Sp. p. 4971; Gaz. vol. 166; p. 899.
Bradley, Benjamin. (See Williams and Bradley.)
Bradley, Byron C., Bradley, assignor, by mesne assignments, to Sears, Roebuck & Co., Chicago, Ill. Hay-press. No. 1,009,719; Nov. 28; Sp. p. 4627; Gaz. vol. 172; p. 841.
Bradley, Charles R., Paris, France. Soil-pulverizing apparatus. No. 980,484; Jan. 3; Sp. p. 664; Gaz. vol. 162; p. 108.
Bradley, Charles S., New York, N. Y., assignor to Sun Power Company, Camden, N. J. Utilizing natural heat. No. 995,219; June 13; Sp. p. 2423; Gaz. vol. 167; p. 420.
Bradley, Charles S., assignor to R. B. Wilson, New York, N. Y. Apparatus for purifying water by ozone. No. 996,560; June 27; Sp. p. 5395; Gaz. vol. 167; p. 944.

Alphabetical list of patentees—Continued.

Bradley, Charles S., assignor to R. B. Wilson, New York, N. Y. Ozonizing and compressing process. No. 996,561; June 27; Sp. p. 5397; Gaz. vol. 167; p. 945.
Bradley, Charles S., New York, N. Y., assignor to Bradley Copper Process Company, Jersey City, N. J. Treating copper-bearing substances. No. 1,011,562; Dec. 12; Sp. p. 2624; Gaz. vol. 173; p. 443.
Bradley Copper Process Company. (See Bradley, Charles S., assignor.)
Bradley, Francois C., McHenry, Miss. Wrench. No. 991,602; May 9; Sp. p. 1674; Gaz. vol. 166; p. 307.
Bradley, Frank B., assignee. (See Carmichael, Thomas.) (Reissue.)
Bradley, Frank B., Chicago, Ill. Guard-rail. No. 987,611; Mar. 21; Sp. p. 3881; Gaz. vol. 164; p. 691.
Bradley, Franklin F., assignor to Bradley and Vrooman Company, Chicago, Ill. Coating objects with subdivided material. No. 988,243; Mar. 28; Sp. p. 5272; Gaz. vol. 164; p. 935.
Bradley, Franklin F., assignor to Bradley and Vrooman Company, Chicago, Ill. Apparatus for coating objects with subdivided material. No. 988,303; Apr. 4; Sp. p. 15; Gaz. vol. 165; p. 5.
Bradley, Franklin F., assignor to Bradley and Vrooman Company, Chicago, Ill. Apparatus for coating objects with subdivided material. No. 995,998; June 20; Sp. p. 4137; Gaz. vol. 167; p. 720.
Bradley, Franklin F., assignor to Bradley and Vrooman Company, Chicago, Ill. Coating objects with subdivided material. No. 995,999; June 20; Sp. p. 4139; Gaz. vol. 167; p. 720.
Bradley, Franklin F., assignor to Bradley and Vrooman Company, Chicago, Ill. Coating objects with subdivided material. No. 997,436; July 11; Sp. p. 1741; Gaz. vol. 168; p. 316.
Bradley, Henry L., New Haven, Conn. Packing-case. No. 996,967; July 4; Sp. p. 772; Gaz. vol. 168; p. 126.
Bradley, Henry W. (See Williams and Bradley.)
Bradley & Hubbard Mfg. Co., The. (See Judd, Arthur G., assignor.)
Bradley, J. Lucius, *et al.* (See Barnes, George A., assignor.)
Bradley, Lyford C. (See Waterman, Bradley, and Andrew.)
Bradley, Richard C., Shreveport, La., assignor of one-half to T. H. Pace, Houston, Tex. Oxygen-generator. No. 983,806; Feb. 7; Sp. p. 1168; Gaz. vol. 163; p. 187.
Bradley and Vrooman Company. (See Bradley, Franklin F., assignor.)
Bradley and Vrooman Company. (See Cragg, George L., assignor.)
Bradley, William A., Denton, near Manchester, England. Handle-fastening. No. 981,745; Jan. 17; Sp. p. 3495; Gaz. vol. 162; p. 592.
Bradoc, Frank, and W. Frost, Athens, assignors to A. Snell, Tice, Ill. Carbid-lamp. No. 988,166; Mar. 28; Sp. p. 5130; Gaz. vol. 164; p. 910.
Bradrick, George M., assignor of one-half to G. W. Ogle, Portersville, Cal. Means for operating walking-beams of deep-well pumps and drills. No. 987,427; Mar. 21; Sp. p. 3519; Gaz. vol. 164; p. 629.
Bradshaw, Ira J., Waukegan, assignor of one-half to J. S. Butterfield, North Chicago, Ill. Annunciator. No. 997,956; July 18; Sp. p. 2930; Gaz. vol. 168; p. 538.
Bradshaw, James W., assignor to Universal Brush Company, Troy, N. Y. Brush-filling machine. No. 980,192; Jan. 3; Sp. p. 25; Gaz. vol. 162; p. 7.
Bradshaw, Julius C., assignor of one-half to C. F. Turkis, Little Rock, Ark. Railway-crossing. No. 989,759; Apr. 18; Sp. p. 3138; Gaz. vol. 165; p. 552.
Bradshaw, Robert Y., Chicago, Ill. Receptacle. No. 985,106; Feb. 21; Sp. p. 3939; Gaz. vol. 163; p. 696.
Bradt, J. H., *et al.* (See Purdy and Miller, assignors.)
Bradway, Victor I. (See Day, William A., assignor.)
Brady, Ambrose J., assignor to C. E. Reichert, Philadelphia, Pa. Brush. No. 988,075; Mar. 28; Sp. p. 4970; Gaz. vol. 164; p. 881.
Brady, Benard F., New York, N. Y. Smoke-consuming furnace. No. 995,765; June 20; Sp. p. 3657; Gaz. vol. 167; p. 639.
Brady, Edwin B. (See Dietze, Emil, Jr., assignor.)
Brady, Huber R. (See Wilkes, Paul, assignor.)
Brady, James E., assignor to E. L. Beckham, Toledo, Ohio. Heel-protector. No. 1,010,345; Nov. 28; Sp. p. 5907; Gaz. vol. 172; p. 1052.
Brady, James H., Louisville, Ky. Paper-feeding machine. No. 1,003,087; Sept. 12; Sp. p. 1999; Gaz. vol. 170; p. 344.
Brady, John F., Chicago, Ill., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Turbine. No. 1,008,306; Nov. 14; Sp. p. 1475; Gaz. vol. 172; p. 271.
Brady, Patrick J., Wilmerding, Pa. Base-ball spike. No. 1,012,057; Dec. 19; Sp. p. 3740; Gaz. vol. 173; p. 650.
Brady, Terence G., Prairie Spring township, Jackson county, Iowa. Gearing. No. 1,004,355; Sept. 26; Sp. p. 4767; Gaz. vol. 170; p. 843.
Brady, Thomas P. (See Eley and Brady.)
Brady, William. (See Cooper, Sandford, and Brady.)
Braf, Gustave, A. Girardi, G. and S. Occhinto, New York, N. Y. Automobile-horn. No. 981,526; Jan. 10; Sp. p. 3053; Gaz. vol. 162; p. 498.
Bragg & Company, Henry E. (See Johnson, Lawrence E., assignor.)
Bragg, James M., East Hartford, Conn. Combined roof bevel and miter. No. 996,451; June 27; Sp. p. 5192; Gaz. vol. 167; p. 910.
Bragstad Bros. Co., The. (See Bragstäd, Joseph W., assignor.)
Bragstäd, Joseph W., assignor to The Bragstad Bros. Co., Canton, S. D. Tamping apparatus. No. 990,220; Apr. 25; Sp. p. 4129; Gaz. vol. 165; p. 739.
Braham, Michael, New York, N. Y. Perambulator. No. 989,561; Apr. 18; Sp. p. 2721; Gaz. vol. 165; p. 485.
Braibant, Nestor, Brussels, Belgium. Vehicle-wheel. No. 996,831; July 4; Sp. p. 471; Gaz. vol. 168; p. 78.
Brainard, Pearl H., assignor to Macomb Poultry Supply Company, Macomb, Ill. Brooder-coop. No. 982,703; Jan. 24; Sp. p. 5536; Gaz. vol. 162; p. 953.
Braine, Bancroft G., New York, N. Y. Game-board. No. 1,009,018; Nov. 14; Sp. p. 3100; Gaz. vol. 172; p. 516.
Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 995,839; June 20; Sp. p. 3825; Gaz. vol. 167; p. 665.
Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Fiber fastening for insulated rail-joints. No. 996,204; June 27; Sp. p. 4630; Gaz. vol. 167; p. 826.
Braine, Bancroft G., assignor to The Rail Joint Company, New York, N. Y. Rolled step rail-joint. No. 1,007,914; Nov. 7; Sp. p. 612; Gaz. vol. 172; p. 94.
Brake Liners Company, The. (See Bonner, William T., assignor.)
Brakey, Robert E., Ventura, Cal. Wave-motor. No. 993,221; May 23; Sp. p. 5119; Gaz. vol. 166; p. 922.
Bralley, Walter S., Schenectady, N. Y., assignor to General Electric Company. Neutralizing induction from alternating-current railways. No. 1,011,020; Dec. 5; Sp. p. 1351; Gaz. vol. 173; p. 215.
Braly, Walter M., Blackwell, Okla. Alarm-actuating mechanism for incubators. No. 1,006,824; Oct. 24; Sp. p. 4996; Gaz. vol. 171; p. 884.
Bramer, Albert. (See Algard and Bramer.)
Bramson, Paul, Chicago, Ill. Electrical hoop. No. 989,944; Apr. 18; Sp. p. 3553; Gaz. vol. 165; p. 617.
Bramwell, James C., *et al.* (See Dohm, Frederick W., assignor.)
Branch, Charles G., Wichita, Kans. Grain-separator. No. 1,007,522; Oct. 31; Sp. p. 6531; Gaz. vol. 171; p. 1181.
Branch, Charles J., Philadelphia, Pa. Non-combustible reflecting material for lamp-shades. No. 1,002,216; Sept. 5; Sp. p. 43; Gaz. vol. 170; p. 5.
Brand, George B., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,004,236; Sept. 26; Sp. p. 4547; Gaz. vol. 170; p. 804.
Brand, George P., New York, N. Y. Automatic piano-playing mechanism. No. 983,422; Feb. 7; Sp. p. 343; Gaz. vol. 163; p. 58.
Brand, George P., New York, N. Y. Mechanical musical instrument. No. 990,831; May 2; Sp. p. 5; Gaz. vol. 166; p. 4.
Brand, George P., New York, N. Y. Exhauster. No. 994,697; June 6; Sp. p. 1268; Gaz. vol. 167; p. 206.
Brand, George P., New York, N. Y. Variable-tension bellows. No. 1,009,380; Nov. 21; Sp. p. 3928; Gaz. vol. 172; p. 681.
Brand, Robert E., assignor to The Resistocrete Company, Casper, Wyo. Artificial stone. No. 991,419; May 2; Sp. p. 1260; Gaz. vol. 166; p. 211.
Brandeau, Etta E. (See Jones, Lyman D., assignor.)
Brandeis, Solomon J., New York, N. Y. Cutting-forceps. No. 1,003,170; Sept. 12; Sp. p. 2176; Gaz. vol. 170; p. 373.
Brandell, Peter, Wichita, Kans. Trolley-head. No. 997,957; July 18; Sp. p. 2932; Gaz. vol. 168; p. 538.
Brandenberger, Edwin, Thaon-les-Vosges, France. Continuous manufacture of cellulose films. No. 981,368; Jan. 10; Sp. p. 2732; Gaz. vol. 162; p. 443.
Brandenberger, Edwin, Thaon-Les-Vosges, France. Manufacture of photographic films. No. 984,886; Feb. 21; Sp. p. 3519; Gaz. vol. 163; p. 622.
Brandenberger, Edwin, Thaon-les-Vosges, France. Apparatus for the continuous manufacture of cellulose films. No. 991,267; May 2; Sp. p. 944; Gaz. vol. 166; p. 159.
Brandenberger, Edwin, Thaon-les-Vosges, France. Manufacture of cellulosic films. No. 1,002,634; Sept. 5; Sp. p. 1014; Gaz. vol. 170; p. 151.
Brandenberger, Jaques E., Thaon-les-Vosges, France. Goffered article made from cellulose films. No. 982,467; Jan. 24; Sp. p. 5072; Gaz. vol. 162; p. 876.
Brandenburg, Emil A., and G. Schmidt, Bremer county, assignors to H. C. Bruns, Waterloo, Iowa. Swinging connection for silo-doors. No. 1,009,889; Nov. 28; Sp. p. 4973; Gaz. vol. 172; p. 898.
Brandenburg, Heinrich, Kempen-on-the-Rhine, Germany. Detinning. No. 1,012,511; Dec. 19; Sp. p. 4680; Gaz. vol. 173; p. 804.
Brander, George, Sutherland, Iowa. Dish-washing machine. No. 987,544; Mar. 21; Sp. p. 3743; Gaz. vol. 164; p. 669.

Alphabetical list of patentees—Continued.

Brandes, Arthur, Cincinnati, Ohio. Friction-locked hinge. No. 1,004,237; Sept. 26; Sp. p. 4550; Gaz. vol. 170; p. 804.
Brandes, August, assignor of one-half to Firm of C. Neff, Hanover, Germany. Treatment of liquids. (Reissue.) No. 13,338; Dec. 12; Sp. p. 3360; Gaz. vol. 173; p. 558.
Brandes, Wilhelm, Gottenborg, Sweden. Apparatus for autogenous metal-working. No. 1,006,459; Oct. 24; Sp. p. 4187; Gaz. vol. 171; p. 754.
Brandly, A. R. (See Raders, Joseph F., assignor.)
Brandon, Arthur H., Toledo, Ohio. Battery-box. No. 984,068; Feb. 14; Sp. p. 1784; Gaz. vol. 163; p. 307.
Brandstetter, Joseph J., Fort Thomas, Ky. Brush. No. 1,007,328; Oct. 31; Sp. p. 6110; Gaz. vol. 171; p. 1113.
Brandt Cashier Company. (See Brandt, Edward J., assignor.)
Brandt, Edward G., assignor to I. Brandt, New York, N. Y. Blow-torch. No. 985,391; Feb. 28; Sp. p. 4613; Gaz. vol. 163; p. 827.
Brandt, Edward J., Watertown, Wis., assignor to Brandt Cashier Company, Chicago, Ill. Designator, recorder, and register. No. 984,999; Feb. 21; Sp. p. 3727; Gaz. vol. 163; p. 659.
Brandt, Isabelle. (See Brandt, Edward G., assignor.)
Brandt, Peter, Chisago City, Minn. Liquid-spraying device. No. 1,011,404; Dec. 12; Sp. p. 2253; Gaz. vol. 173; p. 384.
Brandt, William E., Wausau, Wis. Adjustable roller-track. No. 1,002,125; Aug. 29; Sp. p. 6231; Gaz. vol. 169; p. 1126.
Brandweiner, Adolf, Stuttgart, Germany. Means for composing photographic printing-designs from various original pictures or patterns by means of division-lines. No. 990,832; May 2; Sp. p. 7; Gaz. vol. 166; p. 4.
Brangier, Pierre A., Agnew, Cal. Manufacturing dry diastatic yeast. No. 986,898; Mar. 14; Sp. p. 2431; Gaz. vol. 164; p. 420.
Branham, James C., Portland, Oreg. Railway-tie. No. 1,012,058; Dec. 19; Sp. p. 3741; Gaz. vol. 173; p. 650.
Branin, James I. (See Jolley, Hollis, assignor.)
Brann, John C., Hamptonville, N. C. Tobacco-caser. No. 1,004,624; Oct. 3; Sp. p. 165; Gaz. vol. 171; p. 28.
Brannberg, Gideon E., Joliet, Ill. Printing-press attachment. No. 1,005,684; Oct. 10; Sp. p. 2457; Gaz. vol. 171; p. 421.
Brannen, George S. P., Danforth, Me. Attachment for road-culverts. No. 980,754; Jan. 3; Sp. p. 1227; Gaz. vol. 162; p. 197.
Brannen, Thomas L., Berlin, N. H. Mixing-machine. No. 988,167; Mar. 28; Sp. p. 5131; Gaz. vol. 164; p. 910.
Brannon, Edward F., Tacoma, Wash. Horseshoe. No. 981,054; Jan. 10; Sp. p. 2025; Gaz. vol. 162; p. 333.
Branson, Edwin F. M., Leicester, England, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Typewriting machine. No. 991,692; May 9; Sp. p. 1879; Gaz. vol. 166; p. 339.
Branson, James H. E., Philadelphia, Pa. Automatic machine for stripping and re-covering wire. No. 999,694; Aug. 1; Sp. p. 976; Gaz. vol. 169; p. 171.
Branson, James H. E., W. H. Quick, and T. F. Mackell, Philadelphia, Pa. Track-sanding device for trolley-cars. No. 988,438; Apr. 4; Sp. p. 320; Gaz. vol. 165; p. 52.
Branson, James H. E., W. H. Quick, and T. F. Mackell, Philadelphia, Pa. Car-fender. No. 990,221; Apr. 25; Sp. p. 4133; Gaz. vol. 165; p. 740.
Branson, James H. E., W. H. Quick, and T. F. Mackell, Philadelphia, Pa. Buffer and fender for electric-railway cars. No. 1,010,719; Dec. 5; Sp. p. 712; Gaz. vol. 173; p. 112.
Branson, James H. E., W. H. Quick, and T. F Mackell, Philadelphia, Pa. Wheel guard or fender for electric-railway cars. No. 1,011,021; Dec. 5; Sp. p. 1352; Gaz. vol. 173; p. 215.
Branson, John W., Wallace, Va. Impact water-motor. No. 1,006,906; Oct. 24; Sp. p. 5192; Gaz. vol. 171; p. 912.
Branstetter, Hugh L., assignor of one-eighth to T. S. Manning, St. Louis, Mo. Upright conveyer. No. 993,146; May 23; Sp. p. 4973; Gaz. vol. 166; p. 899.
Brashear, Peter C. (See Suits, Seymour, assignor.)
Brassell, Michael J., Cambridge, Mass. Horse-boot. No. 997,487; July 11; Sp. p. 1843; Gaz. vol. 168; p. 332.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Machine for sealing envelops. No. 989,229; Apr. 11; Sp. p. 1972; Gaz. vol. 165; p. 339.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Envelop sealing and stamping apparatus. No. 1,002,194; Aug. 29; Sp. p. 6364; Gaz. vol. 169; p. 1149.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Calculating-machine. No. 1,007,427; Oct. 31; Sp. p. 6315; Gaz. vol. 171; p. 1148.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Calculating-machine. No. 1,010,849; Dec. 5; Sp. p. 1004; Gaz. vol. 173; p. 157.
Bratkowski, Wladislaus, Berlin, Germany. Apparatus for measuring and regulating the concentration of dye liquors. No. 1,002,635; Sept. 5; Sp. p. 1015; Gaz. vol. 170; p. 151.
Bratt, Fred A., *et al.* (See Chapman, Frank M., assignor.)
Bratton, Fred O. (See Hoffmann, William G., assignor.)
Brauer, Arthur J., St. Louis, Mo. Legging. No. 1,008,236; Nov. 7; Sp. p. 1275; Gaz. vol. 172; p. 208.
Brauer, Eberhard, Leipzig, Germany. Concentrating nitric acid. No. 1,008,690; Nov. 14; Sp. p. 2404; Gaz. vol. 172; p. 406.
Brauer, Michael F., Kulm, N. D. Dumping attachment for headers. No. 1,009,890; Nov. 28; Sp. p. 4974; Gaz. vol. 172; p. 898.
Brauer, William A., North Tonawanda, N. Y. Wind-chest for self-playing organs and musical instruments. No. 1,002,126; Aug. 29; Sp. p. 6233; Gaz. vol. 169; p. 1127.
Braun, Charles O., Brillion, Wis. Cattle-stanchion. No. 987,040; Mar. 14; Sp. p. 2682; Gaz. vol. 164; p. 464.
Braun, Gideon. (See Zybach and Braun.)
Braun, Heinrich. (See Reichel and Braun.)
Braun, Henry C., King's Cross, London, England. Bottle-stopper. No. 985,000; Feb. 21; Sp. p. 3732; Gaz. vol. 163; p. 659.
Braun, Henry C., London, England. Bottle-capsuling machine. No. 995,220; June 13; Sp. p. 2431; Gaz. vol. 167; p. 421.
Braun, Jacob G., Chicago, Ill. Fireproof window construction. No. 1,003,977; Sept. 26; Sp. p. 3928; Gaz. vol. 170; p. 713.
Braun, Joseph, New York, N. Y. Locking device for coal-hole covers. No. 1,003,695; Sept. 19; Sp. p. 3303; Gaz. vol. 170; p. 591.
Braun, Mathias J., Wahpeton, N. D. Boiler-flue cleaner. No. 996,609; July 4; Sp. p. 19; Gaz. vol. 168; p. 6.
Braunbeck, Friedrich, Berlin, Germany. Completely opening or disintegrating grains and legumes. No. 1,011,730; Dec. 12; Sp. p. 3002; Gaz. vol. 173; p. 500.
Brautigam, Frederick H., New York, N. Y., assignor to H. W. Watson, Newark, N. J. Massage-vibrator. No. 1,001,501; Aug. 22; Sp. p. 4907; Gaz. vol. 169; p. 887.
Brawley, Thomas G., Arcanum, Ohio. Machine for making concrete shingles and the like. No. 1,004,553; Oct. 3; Sp. p. 5; Gaz. vol. 171; p. 4.
Brawley, William O. (See Wallace, William A., assignor.)
Brawner, Henry N., Jr., Washington, D. C. Emulsifying apparatus. No. 1,002,127; Aug. 29; Sp. p. 6235; Gaz. vol. 169; p. 1127.
Bray, Albert H., assignor to Detroit Screw Works, Detroit, Mich. Apparatus for threading nuts. No. 999,090; July 25; Sp. p. 5458; Gaz. vol. 168; p. 971.
Bray, Arthur, Leeds, England. Supporting means for globes of inverted incandescent gas-burners and like fittings. No. 986,432; Mar. 14; Sp. p. 1434; Gaz. vol. 164; p. 259.
Bray, Charles W., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Pack-heating furnace. No. 985,776; Mar. 7; Sp. p. 20; Gaz. vol. 164; p. 6.
Bray, Charles W., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Pack-opening apparatus. No. 991,195; May 2; Sp. p. 786; Gaz. vol. 166; p. 133.
Bray, Charles W., assignor to American Sheet & Tin Plate Company, Pittsburg, Pa. Apparatus for opening packs. No. 997,958; July 18; Sp. p. 2934; Gaz. vol. 168; p. 539.
Bray, Gilmer. (See Scruggs, George R., assignor.)
Bray & Kates. (See Bray, Richard, assignor.)
Bray, Myron O., Rochester, N. Y. Temperature-indicator for tempering-furnaces. No. 1,010,224; Nov. 28; Sp. p. 5649; Gaz. vol. 172; p. 1011.
Bray, Richard, assignor to Bray & Kates, Arlington Heights, Ill. Milk-can cover. No. 998,070; July 18; Sp. p. 3186; Gaz. vol. 168; p. 578.
Bray, William H., assignor of one-half to H. L. Healey, (now by marriage H. L. Felch,) Manchester, N. H. Tobacco-pipe. No. 981,369; Jan. 10; Sp. p. 2733; Gaz. vol. 162; p. 444.
Bray, William H., assignor of one-half to H. L. Healey, (now by marriage H. L. Felch,) Manchester, N. H. Automatic safety-valve for water-gages. No. 981,370; Jan. 10; Sp. p. 2734; Gaz. vol. 162; p. 444.
Brayton, Henry L., Owosso, Mich. Safety-gate for elevators. No. 1,007,428; Oct. 31; Sp. p. 6328; Gaz. vol. 171; p. 1149.
Brazelle, Benjamin, Kirkwood, assignor to H. A. Hamilton, trustee, St. Louis, Mo. Cold-dispensing can. No. 1,007,060; Oct. 31; Sp. p. 5508; Gaz. vol. 171; p. 1017.
Brazil, Emile, Hartford, Conn. Motor-cycle attachment. No. 994,715; June 13; Sp. p. 1334; Gaz. vol. 167; p. 251.
Brazill, Michael P., Fresno, Cal. Match-box. No. 988,168; Mar. 28; Sp. p. 5122; Gaz. vol. 164; p. 910.
Brazille, Lafayette. (See Blevins and Brazille.)
Breaid, Thomas, Savanna, Ill. Journal-box. No. 980,590; Jan. 3; Sp. p. 895; Gaz. vol. 162; p. 144.
Breault, Joseph. (See Carter, Ezra W., assignor.)
Breck, Edward Y., Pittsburg, and C. T. Kurtz, Clearfield, Pa. Heating and ventilating system. No. 987,792; Mar. 28; Sp. p. 4297; Gaz. vol. 164; p. 783.
Breck, George D. (See Myers, Henry K., assignor.)
Brede, Carl E., Detroit, Mich. Lock. No. 1,009,891; Nov. 28; Sp. p. 4976; Gaz. vol. 172; p. 899.
Bredell, Baldwin S., Camden, N. J. Stamping-machine. No. 998,274; July 18; Sp. p. 3647; Gaz. vol. 168; p. 652.
Breed, George, Philadelphia, Pa., assignor to The Lyrachord Company, New York, N. Y. Method of and mechanism for producing musical sounds. No. 1,007,265; Oct. 31; Sp. p. 5980; Gaz. vol. 171; p. 1091.

Alphabetical list of patentees—Continued.

Breeding, James L., Perry, Okla. Cotton-chopper. No. 993,342; May 30; Sp. p. 5384; Gaz. vol. 166; p. 995.
Breen, John H., Eden Valley, Minn. Spring-guard attachment for corn-harvesters. No. 1,001,577; Aug. 22; Sp. p. 5061; Gaz. vol. 169; p. 912.
Bregha, Leopold, assignor of one-half to H. Kaiser, Vienna, Austria-Hungary. Deodorizing exhaust-gases from internal-combustion engines. No. 996,205; June 27; Sp. p. 4631; Gaz. vol. 167; p. 826.
Breitenstein, Julius G., assignor to Independent Button & Machine Company, Chicago, Ill. Button-making machine. No. 988,304; Apr. 4; Sp. p. 17; Gaz. vol. 165; p. 5.
Breitung, Edward N., Marquette, Mich. Two-part bottle. No. 986,963; Mar. 14; Sp. p. 2545; Gaz. vol. 164; p. 440.
Breitung, Edward N., Marquette, Mich. Mold for artificial ice. No. 1,010,225; Nov. 28; Sp. p. 5652; Gaz. vol. 172; p. 1012.
Breivogel, William, Gleason, assignor to H. L. Brooks, Tomahawk, Wis. Safety grab-hook. No. 981,838; Jan. 17; Sp. p. 3708; Gaz. vol. 162; p. 627.
Brekke, Lewis T., Wallace, S. D. Animal-smoker. No. 1,009,042; Nov. 21; Sp. p. 3155; Gaz. vol. 172; p. 560.
Brelle, Frank, San Jose, Cal. Fruit-jar. No. 983,423; Feb. 7; Sp. p. 349; Gaz. vol. 163; p. 58.
Bremer, Russell H., Reading, assignor of one-fourth to F. W. Maurer, one-fourth to J. Kistler, Lansford, and one-fourth to O. F. Thiry, Reading, Pa. Tree-protector. No. 989,325; Apr. 11; Sp. p. 2199; Gaz. vol. 165; p. 373.
Brendel, Georg, Pittsburgh, Pa. Pick. No. 1,008,944; Nov. 14; Sp. p. 2937; Gaz. vol. 172; p. 490.
Brenia, Sawwa H., Olyphant, Pa. Drawer-handle. No. 980,193; Jan. 3; Sp. p. 27; Gaz. vol. 162; p. 8.
Brenn, George W., *et al.* (See Hutson, William A., assignor.)
Brennan, Charles M., Naugatuck, Conn. Trolley-wheel. No. 1,002,128; Aug. 29; Sp. p. 6237; Gaz. vol. 169; p. 1128.
Brennan, Charles M., Chicago, Ill. Support for obstetrical operations. No. 1,011,150; Dec. 12; Sp. p. 1685; Gaz. vol. 173; p. 297.
Brennan, James F., New Milford, Conn. Hat-press. No. 984,794; Feb. 21; Sp. p. 3353; Gaz. vol. 163; p. 592.
Brennan, Robert T., Portland, Oreg. Mop holder and wringer. No. 1,011,109; Dec. 5; Sp. p. 1563; Gaz. vol. 173; p. 247.
Brennan, Thomas, Jr. (See Beeman and Brennan.)
Brennan, Thomas, Jr., Minneapolis, Minn., assignor to The Monitor Drill Company. Single-disk furrow-opener. No. 1,011,731; Dec. 12; Sp. p. 3003; Gaz. vol. 173; p. 501.
Brennecke, Herman J., Chicago, Ill. Eyeglass-holder. No. 995,840; June 20; Sp. p. 3828; Gaz. vol. 167; p. 666.
Brenner, Ludwig F. (See Levi, Harold, assignor.)
Brenner, Richard M., New York, N. Y. Race-game apparatus. No. 1,011,563; Dec. 12; Sp. p. 2638; Gaz. vol. 173; p. 443.
Brent, Charles, Buffalo, N. Y. Feed-water regulator. No. 995,841; June 20; Sp. p. 3829; Gaz. vol. 167; p. 666.
Brent, Charles, Brandon, Manitoba, Canada, assignor to Ever Ready Fire Extinguisher Co., Jersey City, N. J. Fire-extinguishing stand-pipe system. No. 1,006,528; Oct. 24; Sp. p. 4345; Gaz. vol. 171; p. 779.
Brentano, John F. T. B., St. Paul, Oreg. Automatic ram-starter. No. 1,006,352; Oct. 17; Sp. p. 3932; Gaz. vol. 171; p. 687.
Brenzinger, Julius, assignor to Max Ams Machine Company, Mount Vernon, N. Y. Soldering-machine. No. 980,755; Jan. 3; Sp. p. 1228; Gaz. vol. 162; p. 198.
Brenzinger, Karl, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 993,020; May 23; Sp. p. 4704; Gaz. vol. 166; p. 857.
Brereton, John J., Troy, N. Y. Concrete railway-tie. No. 991,420; May 2; Sp. p. 1261; Gaz. vol. 166; p. 211.
Brescia, Domingo, Quito, Ecuador. Device for charging capsules. No. 980,756; Jan. 3; Sp. p. 1237; Gaz. vol. 162; p. 198.
Breslauer, Max, Charlottenburg, Germany, assignor to Minimax Consolidated Limited, London, England, and Neuruppin, Germany. Extinguishing fires. No. 990,521; Apr. 25; Sp. p. 4859; Gaz. vol. 165; p. 847.
Bressler, Regina N., New York, N. Y. Swimming device. No. 1,002,558; Sept. 5; Sp. p. 840; Gaz. vol. 170; p. 124.
Brethauer, Charles J., assignor of fifty-one one-hundredths to J. R. Kahn and twenty-four one-hundredths to G. B. Levy, Chicago, Ill. Valve and operating mechanism therefor. No. 998,275; July 18; Sp. p. 3652; Gaz. vol. 168; p. 652.
Bretherick, Clarence O., Seattle, Wash. Current-inducing apparatus. No. 1,011,313; Dec. 12; Sp. p. 2071; Gaz. vol. 173; p. 354.
Bretherton, Walter L., Corry, Pa. Package. No. 1,008,237; Nov. 7; Sp. p. 1277; Gaz. vol. 172; p. 208.
Brethour, William, Grand Rapids, Mich. Dish and lid lifter. No. 1,006,460; Oct. 24; Sp. p. 4189; Gaz. vol. 171; p. 754.
Breting, Ulysses A. (See Coles, William A., assignor.)
Breton, René, Paris, France. Explosion-motor. No. 982,468; Jan. 24; Sp. p. 5075; Gaz. vol. 162; p. 876.
Bretsch, Homer L., Hastings-upon-Hudson, N. Y. Tellurian. No. 1,010,226; Nov. 28; Sp. p. 5653; Gaz. vol. 172; p. 1012.
Bretsnyder, William, Chicago, Ill. Collar-buttoner. No. 1,008,238; Nov. 7; Sp. p. 1278; Gaz. vol. 172; p. 209.
Brett, Adolph R., Portland, Oreg. Automatic switch for street-railways. No. 988,857; Apr. 4; Sp. p. 1197; Gaz. vol. 165; p. 191.
Brett, Henry E. (See Talbot and Brett.)
Brett, Henry E., assignor of one-half to J. A. Talbot, Los Angeles, Cal. Combined punching and riveting machine. No. 980,405; Jan. 3; Sp. p. 467; Gaz. vol. 162; p. 80.
Bretteville, Axel, Notodden, assignor to Norsk-Hydro-elektrisk Kvaelstofaktieselskab, Kristiania, Norway. Dicalcium-phosphate fertilizer. No. 1,011,909; Dec. 19; Sp. p. 3408; Gaz. vol. 173; p. 597.
Bretz, Everett M. (See Peercy and Bretz.)
Bretz, Everett M., Hamilton, Mo. Attachment for bridles. No. 1,005,932; Oct. 17; Sp. p. 3003; Gaz. vol. 171; p. 541.
Breuchaud, Jules, Yonkers, assignor to The Underpinning Company, New York, N. Y. Support for building-walls, &c. No. 996,397; June 27; Sp. p. 5064; Gaz. vol. 167; p. 891.
Breuning, Eugen. (See West and Breuning.)
Breuninger, Charles, *et al.* (See Harrell, William D., assignor.)
Brewbaker, Charles W., and G. R. Shanklin, Portland, Oreg. Hydrocarbon-oil burner. No. 1,011,881; Dec. 12; Sp. p. 3322; Gaz. vol. 173; p. 552.
Brewbaker, Charles W., and G. R. Shanklin; said Brewbaker assignor to E. M. Brewbaker, Portland, Oreg. Hydrocarbon-oil burner. No. 990,331; Apr. 25; Sp. p. 4403; Gaz. vol. 165; p. 779.
Brewbaker, Ella M. (See Brewbaker and Shanklin, assignors.)
Brewer, Albert G., and E. H. Hawes, assignors to H. Harwood and Sons, Natick, Mass. Ball winding and rolling machine. No. 999,482; Aug. 1; Sp. p. 561; Gaz. vol. 169; p. 99.
Brewer, Alfred, *et al.* (See Beebe, Frank, assignor.)
Brewer, Asa R., Atlantic, Iowa. Automobile-tire. No. 981,611; Jan. 17; Sp. p. 3230; Gaz. vol. 162; p. 548.
Brewer, Emmet P., Winnemucca, Nev. Support for cooking vessels. No. 990,102; Apr. 18; Sp. p. 3867; Gaz. vol. 165; p. 668.
Brewer, George W., assignor of one-half to E. N. Early, Clio, Ky. Motor. No. 1,008,307; Nov. 14; Sp. p. 1478; Gaz. vol. 172; p. 271.
Brewer, Josiah B., *et al.* (See Poinan, Francis J., assignor.)
Brewer, Vera A., Los Angeles, Cal. Apparatus for extracting copper. No. 994,301; June 6; Sp. p. 407; Gaz. vol. 167; p. 69.
Brewer, William J., Troy, N. Y. Bearing. No. 981,055; Jan. 10; Sp. p. 2025; Gaz. vol. 162; p. 333.
Brewer, William J., Troy, N. Y. Roller-bearing. No. 983,807; Feb. 7; Sp. p. 1170; Gaz. vol. 163; p. 188.
Brewin, John C., Philadelphia, Pa. Friction-clutch. No. 1,008,945; Nov. 14; Sp. p. 2938; Gaz. vol. 172; p. 490.
Brewster, Edwin H. (See Frazier, Brewster, and Hopfenbeck.)
Brewster, Guy O., Cliffside Park, N. J. Protector for use in boxing. No. 1,004,737; Oct. 3; Sp. p. 413; Gaz. vol. 171; p. 69.
Brewster, Jabez, Tombstone, Ariz. Preparing wheat. No. 1,012,979; Dec. 26; Sp. p. 5764; Gaz. vol. 173; p. 1010.
Brewster, Percy D., East Orange, N. J. Dust-collector. No. 993,343; May 30; Sp. p. 5387; Gaz. vol. 166; p. 995.
Brewster, William A., Victoria, British Columbia, Canada. Boiler. No. 1,005,593; Oct. 10; Sp. p. 2264; Gaz. vol. 171; p. 389.
Brewton, Charles A. (See Hurley and Brewton.)
Brey, Joseph, Cologne, Germany. Driving-wheel for traction-engines. No. 1,005,505; Oct. 10; Sp. p. 2036; Gaz. vol. 171; p. 358.
Briand, Charles C., Revere, Mass., assignor to Peter Gray & Sons. Oil-burner for lamps. No. 1,008,691; Nov. 14; Sp. p. 2405; Gaz. vol. 172; p. 406.
Briandet, Henri, Paris, France. Smoothing-iron with removable handle. No. 1,003,397; Sept. 12; Sp. p. 2633; Gaz. vol. 170; p. 453.
Brice, Edward C. (See Hudson and Brice.)
Brice, Edward C., and R. N. Hudson, Lexington, Ky. Apparatus for generating electricity. No. 989,892; Apr. 18; Sp. p. 3423; Gaz. vol. 165; p. 597.
Brick, Thomas, New York, N. Y. Work-holder for machine-tools. No. 989,893; Apr. 18; Sp. p. 3427; Gaz. vol. 165; p. 597.
Bricker, Charles H., Clay Center, assignor of one-half to H. F. Sahr, Martin, Ohio. Attachment for open-bag-filling machines. No. 987,341; Mar. 21; Sp. p. 3345; Gaz. vol. 164; p. 601.
Bricker, Edward J., assignor of one-half to L. H. Johnson, Minneapolis, Minn. Railway-spike. No. 1,001,612; Aug. 29; Sp. p. 5151; Gaz. vol. 169; p. 955.
Bricker, Samuel P., Allegheny, Pa. Meeting-rail weather-strip. No. 989,760; Apr. 18; Sp. p. 3139; Gaz. vol. 165; p. 552.

Brickley, Gilbert, Missoula, Mont. Rotary engine. No. 1,000,371; Aug. 15; Sp. p. 2471; Gaz. vol. 169; p. 462.
Bridenbaugh, Elmer H. (See Ohmer and Bridenbaugh.)
Bridge, Richard W., assignor to Window Glass Machine Company, Pittsburgh, Pa. Horse for glass cylinders. No. 1,006,995; Oct. 24; Sp. p. 5365; Gaz. vol. 171; p. 941.
Bridgen, Arthur, Albertville, Ala. Spring-tooth cultivator. No. 1,003,029; Sept. 12; Sp. p. 1878; Gaz. vol. 170; p. 324.
Bridger, Frank G., Phelps, N. Y. Potato-digging machine. No. 990,522; Apr. 25; Sp. p. 4859; Gaz. vol. 165; p. 848.
Bridger, Theo E., Dunedin, New Zealand. Dental apparatus. No. 982,931; Jan. 31; Sp. p. 6051; Gaz. vol. 162; p. 1059.
Bridges, Charles E., Chicago, Ill. Vending device. No. 996,610; July 4; Sp. p. 20; Gaz. vol. 168; p. 6.
Bridges, Josiah S., Chicago, Ill. Teething device. No. 1,002,364; Sept. 5; Sp. p. 435; Gaz. vol. 170; p. 61.
Bridges, William C., Wapello, Iowa. Single-delivery dispensing-receptacle. No. 997,112; July 4; Sp. p. 1086; Gaz. vol. 168; p. 176.
Bridges, William T., Los Angeles, Cal. Double-acting sawmill. No. 1,002,129; Aug. 29; Sp. p. 6238; Gaz. vol. 169; p. 1128.
Bridgman, Thomas E., Swansea, England. Detachable rim-flange for the wheels of motor-cars and other vehicles. No. 997,745; July 11; Sp. p. 2427; Gaz. vol. 168; p. 423.
Briechle, Ambrosius, New York, N. Y. Automatic mechanical burglar-alarm. No. 990,423; Apr. 25; Sp. p. 4628; Gaz. vol. 165; p. 814.
Briede, Otto, Benrath, Germany. Feeding and cutting mechanism. No. 984,887; Feb. 21; Sp. p. 3520; Gaz. vol. 163; p. 622.
Briede, Otto, Benrath, near Dusseldorf, Germany. Manufacture of bolts, rivets, &c. No. 987,282; Mar. 21; Sp. p. 3222; Gaz. vol. 164; p. 581.
Briegel, Johann G., Philadelphia, Pa., assignor of one-third to W. H. Oswald and one-third to G. F. Wieland, Lindsay, Cal. Boiler. No. 1,007,329; Oct. 31; Sp. p. 6111; Gaz. vol. 171; p. 1114.
Brieloff, Joseph. (See Benson and Brieloff.)
Briercliffe, James R. G., Moses Gate, Bolton, England. Yarn-testing machine. No. 1,008,308; Nov. 14; Sp. p. 1480; Gaz. vol. 172; p. 271.
Briesen, Arthur v., New York, N. Y. Screw-secured article and producing same. No. 992,331; May 16; Sp. p. 3234; Gaz. vol. 166; p. 586.
Briesen, Frank von, New York, N. Y. Film for moving pictures. No. 1,011,564; Dec. 12; Sp. p. 2642; Gaz. vol. 173; p. 444.
Brigance, Alice O., Navasota, Tex. Bale-band buckle. No. 994,243; June 6; Sp p. 297; Gaz. vol. 167; p. 51.
Brigance, Jane H. (See Cooper and Brigance.)
Brigden, Arthur, Albertville, Ala. Spring-tooth cultivator. No. 995,318; June 13; Sp. p. 2613; Gaz. vol. 167; p. 453.
Brigden, Arthur, Albertville, Ala. Spring-tooth cultivator. No. 995,319; June 13; Sp. p. 2615; Gaz. vol. 167; p. 453.
Brigel, Charles E., Cincinnati, Ohio. Vehicle-brake. No. 997,959; July 18; Sp. p. 2936; Gaz. vol. 168; p. 539.
Brigel, Leo A., Cheviot, Ohio. Heating apparatus. No. 992,155; May 16; Sp. p. 2813; Gaz. vol. 166; p. 524.
Brigel, Leo A., Cincinnati, Ohio. Automobile-heater. No. 996,699; July 4; Sp. p. 208; Gaz. vol. 168; p. 36.
Briggs, Arthur H., Bradford, England. Bobbin for spinning-machines. No. 983,973; Feb. 14; Sp. p. 1555; Gaz. vol. 163; p. 274.
Briggs, Arthur J. (See Brown and Briggs.)
Briggs Beet Harvester Company. (See Briggs, Frank, assignor.)
Briggs, Burdett B., Creston, Iowa. Fire apparatus. No. 986,352; Mar. 7; Sp. p. 1247; Gaz. vol. 164; p. 201.
Briggs, Charles L. (See Puddington, Thomas E., assignor.)
Briggs, Frank, Leavenworth, Wash. Steering mechanism for beet-harvesters. No. 1,002,895; Sept. 12; Sp. p. 1609; Gaz. vol. 170; p. 279.
Briggs, Frank, Leavenworth, assignor to Briggs Beet Harvester Company, Spokane, Wash. Beet-topper. No. 984,795; Feb. 21; Sp. p. 3354; Gaz. vol. 163; p. 592.
Briggs, Frank, Leavenworth, assignor to Briggs Beet Harvester Company, Spokane, Wash. Conveyer. No. 985,107; Feb. 21; Sp. p. 3940; Gaz. vol. 163; p. 696.
Briggs, Frank H., Elyria, Ohio. Electrolytic cell. No. 981,371; Jan. 10; Sp. p. 2736; Gaz. vol. 162; p. 444.
Briggs, Frank J., Glencoe, Okla. Picker-arm. No. 993,147; May 23; Sp. p. 4974; Gaz. vol. 166; p. 899.
Briggs, Frederick L., Brookline, and G. Morris, Jr., Boston, Mass. Illuminating identification device. No. 997,960; July 18; Sp. p. 2938; Gaz. vol. 168; p. 539.
Briggs, George A., New York, N. Y. Link ring. No. 1,003,696; Sept. 19; Sp. p. 3304; Gaz. vol. 170; p. 591.
Briggs, George E., *et al.* (See Anson, Warren J., assignor.)
Briggs, George H., assignor to Jacob Haish Company, De Kalb, Ill. Detent-lever for gas-engines. No. 1,000,355; Aug. 8; Sp. p. 2415; Gaz. vol. 169; p. 425.
Briggs, Irving L., Clarksburg, W. Va., assignor to L. Pearlman, Philadelphia, Pa. Rotary furnace. No. 1,000,321; Aug. 8; Sp. p. 2337; Gaz. vol. 169; p. 413.
Briggs, Melancthon J., Philadelphia, Pa. Thermostat. No. 992,541; May 16; Sp. p. 3691; Gaz. vol. 166; p. 660.
Briggs, Melancthon J., Philadelphia, Pa. Thermostat. No. 992,542; May 16; Sp. p. 3694; Gaz. vol. 166; p. 661.
Briggs, Oliver H., trustee. (See Taylor, Lewis W., assignor.)
Briggs, Richard, North Adams, Mass. Apparatus for filling bottles. No. 983,974; Feb. 14; Sp. p. 1556; Gaz. vol. 163; p. 274.
Briggs, William C., Winston Salem, assignor, by mesne assignments, to J. W. Murchison, Wilmington, N. C., and J. R. Williams, New York, N. Y. Envelop-machine. No. 990,833; May 2; Sp. p. 9; Gaz. vol. 166; p. 5.
Briggs, William C., Winston Salem, N. C., assignor to Carolina Banding Machine Company. Mechanism for feeding bands, labels, &c. No. 1,001,926; Aug. 29; Sp. p. 5846; Gaz. vol. 169; p. 1063.
Briggs, William C., Winston Salem, N. C., assignor to Carolina Banding Machine Company. Machine for applying bands, labels, or wrappers to cigars or other articles. No. 1,004,141; Sept. 26; Sp. p. 4342; Gaz. vol. 170; p. 771.
Briggs, William C., Winston Salem, and J. R. Williams, assignors, by mesne assignments, to J. W. Murchison, Wilmington, N. C., and J. R. Williams, New York, N. Y. Envelop-feeding mechanism for envelop-loading machines and the like. No. 987,851; Mar. 28; Sp. p. 4416; Gaz. vol. 164; p. 804.
Bright, Fred A. and W. F., Santa Cruz, Cal. Faucet-operating device. No. 988,076; Mar. 28; Sp. p. 4972; Gaz. vol. 164; p. 881.
Bright, Fred E., Philadelphia, Pa. Ball-bearing. No. 996,206; June 27; Sp. p. 4632; Gaz. vol. 167; p. 826.
Bright, Fred E., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Ball-bearing. No. 1,004,738; Oct. 3; Sp. p. 416; Gaz. vol. 171; p. 69.
Bright, Fred E., assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Assembling ball-bearings. No. 1,004,739; Oct. 3; Sp. p. 417; Gaz. vol. 171; p. 69.
Bright, James C., Shelbyville, Ky. Wire-hoop-fastening tool. No. 1,005,804; Oct. 17; Sp. p. 2699; Gaz. vol. 171; p. 494.
Bright, Lena A., Buchanan county, Iowa. Ventilating device. No. 984,262; Feb. 14; Sp. p. 2210; Gaz. vol. 163; p. 373.
Bright, Weston F., Springfield, Mass. Tire-holder. No. 988,305; Apr. 4; Sp. p. 18; Gaz. vol. 165; p. 6.
Bright, William F. (See Bright, Fred A. and W. F.)
Brightman, Frank, Shawano, Wis. Top for milk-cans. No. 999,201; Aug. 1; Sp. p. 20; Gaz. vol. 169; p. 6.
Brightman, Frank E., assignor to The Brightman Hammered Nut and Manufacturing Company, Sandusky, Ohio. Automatic metal-working machine. No. 1,008,586; Nov. 14; Sp. p. 2174; Gaz. vol. 172; p. 371.
Brightman Hammered Nut and Manufacturing Company, The. (See Brightman, Frank E., assignor.)
Brighton, Levi I. (See Joyce, Roy E., assignor.)
Brin, Joseph J., Chicago, Ill. Syringe. No. 983,871; Feb. 14; Sp. p. 1341; Gaz. vol. 163; p. 241.
Briney, Smith A., Brackenridge, Pa. Rail-joint and rail-fastener. No. 986,899; Mar. 14; Sp. p. 2433; Gaz. vol. 164; p. 420.
Brink, Henry W. and W. M., Indianapolis, Ind. Automatic valve for pneumatic tires. No. 1,005,149; Oct. 10; Sp. p. 1228; Gaz. vol. 171; p. 230.
Brink, William M. (See Brink, Henry W. and W. M.)
Brinker, Earl R., Spencer, Ohio. Trousers-stretcher. No. 992,402; May 16; Sp. p. 3395; Gaz. vol. 166; p. 611.
Brinkley, Carroll W., *et al.* (See Wheeler, John R., assignor.)
Brinkman, August, Buffalo, N. Y. Railway-tie and clamp. No. 1,001,188; Aug. 22; Sp. p. 4283; Gaz. vol. 169; p. 782.
Brinkman, Lewis A., Chicago, Ill. Spray-nozzle. No. 985,505; Feb. 28; Sp. p. 4891; Gaz. vol. 163; p. 868.
Brinkman, Lewis A., Chicago, Ill. Music-holder. No. 1,009,043; Nov. 21; Sp. p. 3160; Gaz. vol. 172; p. 560.
Brinkman, William J. (See Alexander and Brinkman.)
Brinley, Charles A., assignor to The American Pulley Company, Philadelphia, Pa. Spool. No. 988,755; Apr. 4; Sp. p. 1004; Gaz. vol. 165; p. 159.
Brinly-Hardy Company. (See Holsclaw, Wilford H., assignor.)
Brinser, Harry R., Middletown, Pa. Grain-drier. No. 996,700; July 4; Sp. p. 209; Gaz. vol. 168; p. 36.
Brinsley, James H., Mankato, Minn. Attachment for knitting-machines. No. 982,238; Jan. 24; Sp. p. 4560; Gaz. vol. 162; p. 793.
Briody, Thomas P., A. B. Fagan, and J. R. Lynch, South Bethlehem, Pa. Display-stand. No. 986,433; Mar. 14; Sp. p. 1435; Gaz. vol. 164; p. 259.
Brion, Adolph E., Brooklyn, N. Y., and F. C. Sanford, Bridgeport, Conn. Combined gas and water cock. No. 992,332; May 16; Sp. p. 3236; Gaz. vol. 166; p. 587.
Briones, José L. de, Carthagena, Spain. Speed-changing mechanism. No. 1,009,954; Nov. 28; Sp. p. 5103; Gaz. vol. 172; p. 920.

Alphabetical list of patentees—Continued.

Brisbane, Arthur, New York, N. Y. Insect-destroying apparatus. No. 993,644; May 30; Sp. p. 6042; Gaz. vol. 166; p. 1098.
Brisben, Ernest J., Cleveland, Ohio. Emery-wheel dresser. No. 990,193; Apr. 18; Sp. p. 4066; Gaz. vol. 165; p. 698.
Brisbin, Hannah E. (See Magee, Frank, assignor.)
Brison, Ira W., Aspinwall, and J. A. Hunter, Monongahela, Pa. Machine for making hollow bricks. No. 981,839; Jan. 17; Sp. p. 3709; Gaz. vol. 162; p. 627.
Brissette, Wilmer H., Saranac, N. Y. Hame and trace connector. No. 1,000,709; Aug. 15; Sp. p. 3227; Gaz. vol. 169; p. 583.
Bristol Brass Company, The. (See Holley, Julian R., assignor.)
Bristol Brass Company, The. (See Wright, Henry C., assignor.)
Bristol, Harold B., Maplewood, Mo. Loose-leaf binder. No. 985,777; Mar. 7; Sp. p. 21; Gaz. vol. 164; p. 6.
Bristol, Harold B., Maplewood, Mo. Loose-leaf binder. No. 986,542; Mar. 14; Sp. p. 1671; Gaz. vol. 164; p. 296.
Bristol, William H., Waterbury, Conn. Temperature-compensating device. No. 1,000,146; Aug. 8; Sp. p. 1970; Gaz. vol. 169; p. 354.
Bristol, William H., Waterbury, Conn. Combined clock and shock-recorder. No. 1,000,147; Aug. 8; Sp. p. 1972; Gaz. vol. 169; p. 354.
Bristol, William H., Waterbury, Conn. Speed-recorder. No. 1,000,148; Aug. 8; Sp. p. 1974; Gaz. vol. 169; p. 355.
Bristol, William H., Waterbury, Conn. Belt-fastener. No. 1,000,149; Aug. 8; Sp. p. 1977; Gaz. vol. 169; p. 355.
Bristol, William H., Waterbury, Conn. Pressure indicating and recording apparatus. No. 1,000,892; Aug. 15; Sp. p. 3605; Gaz. vol. 169; p. 648.
Bristol, William H., Waterbury, Conn. Differential-pressure gage. No. 1,003,229; Sept. 12; Sp. p. 2306; Gaz. vol. 170; p. 395.
Bristol, William H., Waterbury, Conn. Belt-fastener. No. 1,004,356; Sept. 26; Sp. p. 4770; Gaz. vol. 170; p. 843.
Bristol, William S., Anthony, Kans. Brake-lock. No. 1,004,357; Sept. 26; Sp. p. 4771; Gaz. vol. 170; p. 843.
Britain, William P., and G. J. Packman, Westplains, Mo. Automatic fire-alarm. No. 995,221; June 13; Sp. p. 2434; Gaz. vol. 167; p. 421.
Britcher, John C., York, Pa. Turbine. No. 990,523; Apr. 25; Sp. p. 4860; Gaz. vol. 165; p. 848.
British Adding Machine Company, The. (See Browning, Walter H., assignor.)
British Hosiery and Electrolytic Bleaching Company, The. (See Scott, John H., assignor.)
British Humidifier Company. (See Winstanley, Thomas, assignor.)
British Steel & Wire Company, The. (See Horton, James A., assignor.)
Britsch, Otto C. (See Wald, Britsch, and Taigman.)
Britt, Frederick C., Middleport, N. Y. Bean-picker. No. 997,366; July 11; Sp. p. 1619; Gaz. vol. 168; p. 293.
Britt, Oliver W. (See Fitch and Britt.)
Brittain, John W., *et al.* (See Dupré, Wilfred, assignor.)
Brittain, Monroe. (See Darst and Brittain.)
Brittan, Henry H., Walla Walla, Wash. Weeding-machine. No. 981,973; Jan. 17; Sp. p. 4036; Gaz. vol. 162; p. 674.
Britter, Andrew W., Abilene, Tex. Quilting-machine. No. 995,320; June 13; Sp. p. 2618; Gaz. vol. 167; p. 453.
Britton, Richard C., Buxton, Iowa. Coal-mining drill. No. 990,205; Apr. 18; Sp. p. 4086; Gaz. vol. 165; p. 702.
Britzius, Elmer A., St. Charles, Minn. Strainer. No. 1,003,398; Sept. 12; Sp. p. 2634; Gaz. vol. 170; p. 453.
Brizard, Henry F. (See Hunter, William F., assignor.)
Broad, John E., Hempstead, assignor of one-half to New York & New Jersey Lubricant Company, New York, N. Y. Ejecting-container. No. 996,055; June 27; Sp. p. 4265; Gaz. vol. 167; p. 775.
Broadbent, Samuel G. (See Colburn and Broadbent.)
Broadfield, John A., Philadelphia, Pa. Pneumatic bulb for horns. No. 994,118; June 6; Sp. p. 32; Gaz. vol. 167; p. 8.
Broadfield, Thomas F., Grong Grong, New South Wales, Australia. Toothed-wheel mask and attachment. No. 1,004,980; Oct. 3; Sp. p. 914; Gaz. vol. 171; p. 151.
Broadhurst, Herbert F., London, England. Filling and weighing apparatus. No. 1,007,915; Nov. 7; Sp. p. 614; Gaz. vol. 172; p. 94.
Broadley, Joseph, Fair Oaks, Cal. Hinge-seat cutter. No. 1,012,241; Dec. 19; Sp. p. 4157; Gaz. vol. 173; p. 713.
Broadwater, Luke H., Findlay, Ohio, assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Mechanism for elevating torpedoes into mouths of wells. No. 1,004,554; Oct. 3; Sp. p. 8; Gaz. vol. 171; p. 4.
Brochu, Michael, M. C. and A. L. H. Verwys, Grand Rapids, Mich., assignors of one half to said M. C. Verwys, and one-half to said A. L. H. Verwys. Dowel-cutting machine. No. 992,845; May 23; Sp. p. 4314; Gaz. vol. 166; p. 794.
Brock, Andrew A., Chicago, Ill. Carbureter. No. 1,011,565; Dec. 12; Sp. p. 2642; Gaz. vol. 173; p. 444.
Brock, Giota E., Blue Mound, Kans. Vehicle-wheel. No. 1,002,636; Sept. 5; Sp. p. 1017; Gaz. vol. 170; p. 152.
Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-mechanism. No. 1,002,818; Sept. 12; Sp. p. 1404; Gaz. vol. 170; p. 251.
Brockardt, Paul L., assignor to The Triumph Laundry Machinery Company, Hamilton, Ohio. Mangle. No. 1,012,512; Dec. 19; Sp. p. 4681; Gaz. vol. 173; p. 804.
Brockdorff, Rudolf von, Berlin, Germany. Water-heating apparatus. No. 1,002,637; Sept. 5; Sp. p. 1018; Gaz. vol. 170; p. 152.
Brockenbrough, Hugh B., Fort Dodge, Iowa. Cable-gripper. No. 1,011,566; Dec. 12; Sp. p. 2646; Gaz. vol. 173; p. 444.
Brockenbrough, L. W. W., *et al.* (See Rothlisberger, Erneste, assignor.)
Brocker, Frederick, Jr., New York, N. Y. Victim-set rat or mouse trap. No. 1,012,801; Dec. 26; Sp. p. 5337; Gaz. vol. 173; p. 950.
Brockett, J. T., *et al.* (See Silva, Claude L., assignor.)
Brockie, James, Forest Hill, England. Magazine electric-arc lamp. No. 990,103; Apr. 18; Sp. p. 3868; Gaz. vol. 165; p. 668.
Brockman, Oscar, Louisville, Ky. Breast attachment for harness. No. 1,008,692; Nov. 14; Sp. p. 2407; Gaz. vol. 172; p. 407.
Brockmann, Henri, *et al.* (See Stern, Albert, assignor.)
Brockton Mowing Machine Cutter Bar Company. (See Poole, John H., assignor.)
Brodbeck Company, The. (See Brodbeck and Beekley, assignors.)
Brodbeck, Joseph W., and C. J. Beekley, assignors to The Brodbeck Company, Cincinnati, Ohio. Nursery-powder compound. No. 992,937; May 23; Sp. p. 4528; Gaz. vol. 166; p. 828.
Brode, Charles W., Newcomerstown, Ohio. Folding stand for ironing-boards. No. 999,695; Aug. 1; Sp. p. 977; Gaz. vol. 169; p. 171.
Broderick & Bascom Rope Company. (See Grice, Frederick W., assignor.)
Broderick, David F., New Britain, assignor to Sargent & Company, New Haven, Conn. Automatic japanning apparatus. No. 1,010,720; Dec. 5; Sp. p. 713; Gaz. vol. 173; p. 113.
Broderick, Dennis J. (See Obenhoff and Broderick.)
Broderick, Frank. (See Gair, Broderick, and Beattie.)
Broderick, John W., assignor to O. Bernz, Newark, N. J. Window-cleaner. No. 1,011,022; Dec. 5; Sp. p. 1354; Gaz. vol. 173; p. 216.
Brodhagen, Gustav, Neuhaus, Germany. Wrench. No. 988,691; Apr. 4; Sp. p. 852; Gaz. vol. 165; p. 138.
Brodhead, Edward E., New York, N. Y. Baker's tray. No. 1,007,670; Nov. 7; Sp. p. 19; Gaz. vol. 172; p. 6.
Brodkowsky, Morris, assignor of one-half to H. Schlomovitz, Milwaukee, Wis. Separating hair from haircloth. No. 1,009,019; Nov. 14; Sp. p. 3104; Gaz. vol. 172; p. 516.
Brodt, Lincoln, West Berkeley, Cal. Separable square. No. 981,372; Jan. 10; Sp. p. 2737; Gaz. vol. 162; p. 444.
Brodton, Edward R., assignor to The Modern Electric Appliance Company, Mobile, Ala. Means for utilizing water-pressure. No. 996,056; June 27; Sp. p. 4267; Gaz. vol. 167; p. 775.
Broecker, Henry J., Waukegan, Ill., assignor of one-third to E. P. Hauk, Milwaukee, Wis., and one-third to W. C. Dolen, Waukegan, Ill. Bottle-washing machine. No. 984,069; Feb. 14; Sp. p. 1785; Gaz. vol. 163; p. 307.
Broeker, William F., Beardstown, Ill. Lubricator. No. 1,000,232; Aug. 8; Sp. p. 2158; Gaz. vol. 169; p. 384.
Broemmelsiek, Henry W., St. Louis, Mo. Druggist's label-cabinet. No. 991,130; May 2; Sp. p. 640; Gaz. vol. 166; p. 109.
Brogan, James A., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Last. No. 993,502; May 30; Sp. p. 5737; Gaz. vol. 166; p. 1048.
Brogan, John H., Philadelphia, Pa. Exercising device. No. 1,012,802; Dec. 26; Sp. p. 5339; Gaz. vol. 173; p. 950.
Brogan, William E. (See Wade, Edwin T., assignor.)
Brogden, Fay A. (See Morey and Brogden.)
Brohmann, Rudolf, Hanover, Germany. Lock. No. 993,750; May 30; Sp. p. 6296; Gaz. vol. 166; p. 1136.
Broido, David, Berlin, Germany, assignor to General Electric Company. Current-limiting device. No. 1,011,732; Dec. 12; Sp. p. 3006; Gaz. vol. 173; p. 501.
Brolin, Jonas, Duluth, Minn. Decorticating-machine. No. 987,342; Mar. 21; Sp. p. 3346; Gaz. vol. 164; p. 601.
Broman, Harrison L., Leadville, Colo. Flat-iron waxer. No. 1,005,685; Oct. 10; Sp. p. 2459; Gaz. vol. 171; p. 421.
Brombacher, Emil, Buffalo, N. Y. Sash lock and lift. No. 989,483; Apr. 11; Sp. p. 2510; Gaz. vol. 165; p. 425.
Bromley & Sons, John. (See McClain, James, assignor.)
Bromm, George, assignor of one-third to J. Dengler and one-third to J. L. Schwab, Saginaw, Mich. Smoke-consumer. No. 993,148; May 23; Sp. p. 4976; Gaz. vol. 166; p. 900.
Bronder, Gaston A., Brooklyn, N. Y. Making a gas mixture. No. 992,106; May 9; Sp. p. 2671; Gaz. vol. 166; p. 476.

Alphabetical list of patentees—Continued.

Bronson, Enos A., Newburgh, N. Y. Drying apparatus. No. 1,004,358; Sept. 26; Sp. p. 4772; Gaz. vol. 170; p. 843.
Bronstein, Jesse B., Oakland, Cal. Explosive. No. 986,900; Mar. 14; Sp. p. 2434; Gaz. vol. 164; p. 420.
Bronstein, Jesse B., Allentown, Pa. Explosive. No. 988,858; Apr. 4; Sp. p. 1199; Gaz. vol. 165; p. 191.
Brookbank, James O., Driftwood, Pa. Airship. No. 986,434; Mar. 14; Sp. p. 1436; Gaz. vol. 164; p. 260.
Brooke, Banner M., Columbus, Ohio. Scale. No. 1,009,826; Nov. 28; Sp. p. 4858; Gaz. vol. 172; p. 878.
Brooke, Robert G., Macclesfield, England. Steam-injector. No. 991,268; May 2; Sp. p. 946; Gaz. vol. 166; p. 159.
Brooke, William M., assignor, by mesne assignments, to Premier Engineering & Mfg. Co., New York, N. Y. Metallic packing. No. 981,912; Jan. 17; Sp. p. 3883; Gaz. vol. 162; p. 653.
Brooker, Albert, Lancaster, Wis. Vehicle-wheel. No. 1,002,638; Sept. 5; Sp. p. 1020; Gaz. vol. 170; p. 152.
Brooker, Clem M., Lakewood, Ohio. Road-machine for melting snow. No. 987,343; Mar. 21; Sp. p. 3349; Gaz. vol. 164; p. 601.
Brooker, John E., Van Meter, Iowa. Latch. No. 1,002,130; Aug. 29; Sp. p. 6242; Gaz. vol. 169; p. 1128.
Brookfield Glass Company, The. (See Brookfield, Henry M., assignor.)
Brookfield, Henry M., assignor to The Brookfield Glass Company, New York, N. Y. Machine for making glass articles. No. 1,011,023; Dec. 5; Sp. p. 1355; Gaz. vol. 173; p. 216.
Brookins, Guy D., and J. C. Vetter, assignors of one-third to C. H. Collings, Cleveland, Ohio. Multiple electric-light switch. No. 984,534; Feb. 21; Sp. p. 2796; Gaz. vol. 163; p. 499.
Brooklyn Cooperage Company. (See Lobley, Max E., assignor.)
Brooklyn Cooperage Company. (See Shinsky and Langlotz, assignors.)
Brooks, Albert E., Chicago, Ill. Refrigerator. No. 1,012,513; Dec. 19; Sp. p. 4682; Gaz. vol. 173; p. 804.
Brooks, Boultbee. (See Alston, Frank H., assignor.)
Brooks, Carmen C., Haxtum, Colo. Street-sweeper. No. 982,570; Jan. 24; Sp. p. 5270; Gaz. vol. 162; p. 909.
Brooks, Chester K., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-door fastening. No. 1,012,322; Dec. 19; Sp. p. 4317; Gaz. vol. 173; p. 741.
Brooks, Edward J., East Orange, N. J. Car-seal. No. 982,121; Jan. 17; Sp. p. 4334; Gaz. vol. 162; p. 723.
Brooks, Edward J., East Orange, N. J. Seal. No. 982,122; Jan. 17; Sp. p. 4336; Gaz. vol. 162; p. 724.
Brooks, Edward J., East Orange, N. J. Snap-seal. No. 988,169; Mar. 28; Sp. p. 5134; Gaz. vol. 164; p. 911.
Brooks, Edward J., East Orange, N. J. Seal. No. 990,629; Apr. 25; Sp. p. 5068; Gaz. vol. 165; p. 883.
Brooks, Edward J., East Orange, N. J. Bag-seal. No. 990,630; Apr. 25; Sp. p. 5070; Gaz. vol. 165; p. 883.
Brooks, Edward J., East Orange, N. J. Press-fastenable seal. No. 995,321; June 13; Sp. p. 2619; Gaz. vol. 167; p. 454.
Brooks, Edward J., East Orange, N. J. Snap-seal. No. 997,234; July 4; Sp. p. 1338; Gaz. vol. 168; p. 218.
Brooks, Edward J., East Orange, N. J. Snap-seal. No. 1,009,277; Nov. 21; Sp. p. 3699; Gaz. vol. 172; p. 644.
Brooks, Frank M., New York, N. Y. Gas-regulator. No. 1,004,625; Oct. 3; Sp. p. 166; Gaz. vol. 171; p. 29.
Brooks, Franklin V., New York, N. Y. Automatic coffee-pot. No. 1,002,819; Sept. 12; Sp. p. 1410; Gaz. vol. 170; p. 251.
Brooks, Fredrick C., Brunswick, Nebr. Rural-mail-delivering system. No. 1,008,889; Nov. 14; Sp. p. 2813; Gaz. vol. 172; p. 474.
Brooks, George W., Topeka, Kans. Fireproof beam. No. 991,603; May 9; Sp. p. 1676; Gaz. vol. 166; p. 307.
Brooks, Hall L. (See Breivogel, William, assignor.)
Brooks, Harry A. (See McLain and Brooks.)
Brooks, Howell M., Cherryvale, Kans. Collapsible quilting-frame. No. 991,476; May 9; Sp. p. 1385; Gaz. vol. 166; p. 261.
Brooks, James M., Molena, Ga. Subsoil-plow. No. 1,004,238; Sept. 26; Sp. p. 4552; Gaz. vol. 170; p. 805.
Brooks, Jay, La Fayette, Oreg. Land-roller. No. 1,002,492; Sept. 5; Sp. p. 704; Gaz. vol. 170; p. 103.
Brooks, John A., Clinton, Ind. Railway-tie. No. 984,535; Feb. 21; Sp. p. 2797; Gaz. vol. 163; p. 500.
Brooks, John H., Fonda, assignor of one-fourth to J. H. Allen and one-fourth to C. D. Atkinson, Pocahontas, Iowa. Combined wrench and pliers. No. 1,003,978; Sept. 26; Sp. p. 3929; Gaz. vol. 170; p. 713.
Brooks, John O., F. E. Parsons, and G. J. Altstetter, Clarksburg, W. Va. Metallic tie and rail-fastener. No. 991,943; May 9; Sp. p. 2378; Gaz. vol. 166; p. 422.
Brooks, John O., F. E. Parsons, and G. J. Altstetter, Clarksburg, W. Va. Metallic tie and rail-fastener. No. 991,944; May 9; Sp. p. 2380; Gaz. vol. 166; p. 423.
Brooks, John R., Springfield, Mo. Gas-lighter. No. 1,001,345; Aug. 22; Sp. p. 4623; Gaz. vol. 169; p. 836.
Brooks, Mary E. (See Brooks, William D., assignor.)
Brooks, Robert W., Louisville, Ky. Presser for cider-mills. No. 1,002,206; Aug. 29; Sp. p. 6404; Gaz. vol. 169; p. 1154.
Brooks, Silenus D., assignor to C. N. Murdock, Oneonta, N. Y. Vehicle-wheel. No. 1,000,322; Aug. 8; Sp. p. 2338; Gaz. vol. 169; p. 413.
Brooks, Thaddeus R., Oakland, Cal. Ore-concentrating belt. No. 994,439; June 6; Sp. p. 699; Gaz. vol. 167; p. 119.
Brooks, Walter B. M., Montgomery, Ala. Baling apparatus. No. 1,004,555; Oct. 3; Sp. p. 9; Gaz. vol. 171; p. 4.
Brooks, William D., assignor to M. E. Brooks, Baltimore, Md. Can-testing machine. No. 989,562; Apr. 18; Sp. p. 2723; Gaz. vol. 165; p. 486.
Brooks, William N., *et al.* (See Omalia, Matthew, assignor.)
Broome, Christopher C., Atlanta, Ga. Separator for cotton-ginning mechanism. No. 1,002,131; Aug. 29; Sp. p. 6243; Gaz vol. 169; p. 1129.
Brophy, John B., New York, N. Y. Tally-card system. No. 985,108; Feb. 21; Sp. p. 3942; Gaz. vol. 163; p. 696.
Brophy, John P., Cleveland, Ohio. Clutch. No. 992,938; May 23; Sp. p. 4529; Gaz. vol. 166; p. 828.
Brophy, Reuben C. (See Vernon and Brophy.)
Brophy, Truman W., Chicago, Ill. Artificial palate. No. 1,012,980; Dec. 26; Sp. p. 5765; Gaz. vol. 173; p. 1010.
Brorby, Jacob I., Shenandoah, Iowa. Street-flushing machine. No. 987,545; Mar. 21; Sp. p. 3746; Gaz. vol. 164; p. 669.
Brosius, Albert M., Baltimore, Md. Solar still. No. 983,424; Feb. 7; Sp. p. 341; Gaz. vol. 163; p. 59.
Broski, John W. (See Andrews and Broski.)
Brotherhood, Henry, Ottawa, Ontario, Canada. Clamp. No. 1,005,768; Oct. 10; Sp. p. 2615; Gaz. vol. 171; p. 451.
Brothers, Eli, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe. No. 996,057; June 27; Sp. p. 4273; Gaz. vol. 167; p. 776.
Brothers, James H., Newark, N. J., assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,010,850; Dec. 5; Sp. p. 1011; Gaz. vol. 173; p. 157.
Brothers, William F., New York, N. Y. Cableway. No. 1,000,772; Aug. 15; Sp. p. 3373; Gaz. vol. 169; p. 606.
Brothers, William F., New York, N. Y. Traveling crane. No. 1,000,773; Aug. 15; Sp. p. 3377; Gaz. vol. 169; p. 606.
Brotherton, Louis P., Los Angeles, Cal. Guarded spring-tire. No. 1,005,406; Oct. 10; Sp. p. 1818; Gaz. vol. 171; p. 324.
Broudy, Albert M., Dysart, Pa. Check-book. No. 1,003,326; Sept. 12; Sp. p. 2503; Gaz. vol. 170; p. 431.
Brough, Joseph, Lebanon, Pa., assignor of one-half to G. W. Haughwout, Norfolk, Va. Automatic window-fastener. No. 1,012,803; Dec. 26; Sp. p. 5340; Gaz. vol. 173; p. 950.
Brough, William, Washington, D. C. Device for tattooing animals. No. 992,732; May 16; Sp. p. 4061; Gaz. vol. 166; p. 725.
Broughton, Chauncey W., McGirr, Carlton, and F. D. Reynolds, De Kalb, Ill.; said Reynolds assignor to said Broughton. Mail-receiving apparatus. No. 987,949; Mar. 28; Sp. p. 4685; Gaz. vol. 164; p. 838.
Broughton, Chauncey W., McGirr, Carlton, and F. D. Reynolds, De Kalb, Ill.; said Reynolds assignor to said Broughton. Mail-bag receiving and delivering apparatus for railway-cars. No. 987,950; Mar. 28; Sp. p. 4689; Gaz. vol. 164; p. 839.
Broughton, Howard A., *et al.* (See Gale, George C., assignor.)
Broughton, Lyman D., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 990,834; May 2; Sp. p. 14; Gaz. vol. 166; p. 5.
Broussard, Pierre H., London, England. Pattern-display holder. No. 1,002,639; Sept. 5; Sp. p. 1022; Gaz. vol. 170; p. 153.
Broussaud, Edouard. Angouleme, France, assignor of one-half to The Miller, Du Brul & Peters Mfg. Co., Cincinnati, Ohio. Cigarette-pack and holder therefor. No. 996,968; July 4; Sp. p. 775; Gaz. vol. 168; p. 127.
Brousseau, Harry, assignor of one-half to M. Stern, New York, N. Y. Gas-generator. No. 980,918; Jan. 10; Sp. p. 1642; Gaz. vol. 162; p. 284.
Brousseau, Harry, assignor of one-half to M. Stern, New York, N. Y. Welding-torch. No. 992,156; May 16; Sp. p. 2815; Gaz. vol. 166; p. 524.
Brousseau, Harry, assignor of one-half to M. Stern, New York, N. Y. Pipe-joint. No. 1,005,407; Oct. 10; Sp. p. 1819; Gaz. vol. 171; p. 324.
Brouwer, Bertus J., Campbell, Minn. Potato-cleaning apparatus. No. 986,681; Mar. 14; Sp. p. 1962; Gaz. vol. 164; p. 345.
Browder, Jack L., Ottumwa, Iowa. Boiler-tube cutter. No. 1,007,330; Oct. 31; Sp. p. 6113; Gaz. vol. 171; p. 1114.
Brower, Abraham T. H., Chicago, Ill. Printing-press. No. 981,056; Jan. 10; Sp. p. 2027; Gaz. vol. 162; p. 333.
Brower, Bloomfield, and T. A. Weber, New York, N. Y. Sharpening device for knives and the like. No. 989,692; Apr. 18; Sp. p. 3006; Gaz. vol. 165; p. 529.
Brower, Charles E., Memphis, Tenn. Pneumatic tire. No. 1,000,069; Aug. 8; Sp. p. 1778; Gaz. vol. 169; p. 328.

Alphabetical list of patentees—Continued.

Brower, G. L., *et al.* (See Purdy and Miller, assignors.)
Brower, John D., Jr., Pacific Grove, Cal. Escape-valve. No. 1,005,686; Oct. 10; Sp. p. 2460; Gaz. vol. 171; p. 422.
Brower, William H., and B. Bonnichsen, Rembrandt, Iowa. Disk-grinding machine. No. 990,332; Apr. 25; Sp. p. 4406; Gaz. vol. 165; p. 780.
Brown, Ada B., Seattle, Wash. Cream-separator. No. 999,747; Aug. 8; Sp. p. 1104; Gaz. vol. 169; p. 218.
Brown, Alexander T. (See Tomlinson, Charles E., assignor.)
Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 984,744; Feb. 21; Sp. p. 3241; Gaz. vol. 163; p. 574.
Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 985,506; Feb. 28; Sp. p. 4892; Gaz. vol. 163; p. 868.
Brown, Alexander T., Syracuse, N. Y. Type-writing machine. No. 1,000,986; Aug. 22; Sp. p. 3828; Gaz. vol. 169; p. 713.
Brown, Alexander T., Syracuse, N. Y., assignor to W. L. Smith, trustee. Electric exchange system. No. 992,333; May 16; Sp. p. 3237; Gaz. vol. 166; p. 587.
Brown, Alexander T., and A. J. Briggs, Syracuse, N. Y.; said Briggs assignor to said Brown. Type-writing machine. No. 981,974; Jan. 17; Sp. p. 4038; Gaz. vol. 162; p. 674.
Brown, Alfred G., assignor to Union Fibre Company, Winona, Minn. Refrigerator-car. No. 982,571; Jan. 24; Sp. p. 5271; Gaz. vol. 162; p. 909.
Brown, Andrew B., London, England, assignor to W. A. Hickman, Pictou, Canada. Internal-combustion engine. No. 985,507; Feb. 28; Sp. p. 4898; Gaz. vol. 163; p. 868.
Brown, Andrew B., and W. A. Hickman, London, England; said Brown assignor to said Hickman. Internal-combustion engine. No. 986,353; Mar. 7; Sp. p. 1249; Gaz. vol. 164; p. 202.
Brown, Arthur J., Milwaukee, Wis., assignor to Allis-Chalmers Company. Field-magnet structure. No. 992,846; May 23; Sp. p. 4316; Gaz. vol. 166; p. 795.
Brown, Arthur J., Milwaukee, Wis., assignor to Allis-Chalmers Company. Adjustable series shunt. No. 1,005,805; Oct. 17; Sp. p. 2700; Gaz. vol. 171; p. 494.
Brown, Arthur J., and R. B. Williamson, Milwaukee, Wis. assignors to Allis-Chalmers Company. Rotor-coil retainer. No. 981,057; Jan. 10; Sp. p. 2031; Gaz. vol. 162; p. 334.
Brown Automatic Connector Company. (See Brown, Mark A., assignor.)
Brown, Benjamin A. (See Fulford, Stanley L., assignor.)
Brown, Carl E., Columbus, Ohio. Combined mop head and wringer. No. 1,005,806; Oct. 17; Sp. p. 2702; Gaz. vol. 171; p. 494.
Brown, Charles, assignor of one-half to J. E. Ransom, Albert Lea, Minn. Skate. No. 982,239; Jan. 24; Sp. p. 4561; Gaz. vol. 162; p. 793.
Brown, Charles A., Hinsdale, assignor, by mesne assignments, to The Steam Power Devices Company, Chicago, Ill. Boiler construction and means for making the same. No. 1,008,628; Nov. 14; Sp. p. 2266; Gaz. vol. 172; p. 385.
Brown, Charles H., Longbeach, Cal. Device for raising sunken vessels. No. 1,005,408; Oct. 10; Sp. p. 1820; Gaz. vol. 171; p. 324.
Brown, Charles W., Chicago, Ill. Pneumatic conveying apparatus. No. 984,188; Feb. 14; Sp. p. 2012; Gaz. vol. 163; p. 346.
Brown, Claud D., assignor of one-half to H. T. Ballew, Anderson, Ind. Mail device. No. 1,011,733; Dec. 12; Sp. p. 3009; Gaz. vol. 173; p. 501.
Brown, Claud V., Arleta, assignor of one-half to G. Buery, Portland, Oreg. Plasterer's darby. No. 1,002,896; Sept. 12; Sp. p. 1611; Gaz. vol. 170; p. 279.
Brown Clutch Company, The. (See Baldridge, Harry D., assignor.)
Brown, Colin P., and J. L. Uhlik, assignors to Wentworth Manufacturing Company, Detroit, Mich. Bumper for vehicles. No. 996,207; June 27; Sp. p. 4634; Gaz. vol. 167; p. 827.
Brown, Commodore P., Ronceverte, W. Va. Wrench. No. 1,006,057; Oct. 17; Sp. p. 3255; Gaz. vol. 171; p. 583.
Brown, Daniel T., Celina, Tex. Leveling device for traction-engines. No. 981,373; Jan. 10; Sp. p. 2739; Gaz. vol. 162; p. 445.
Brown, David. (See Klein and Brown.)
Brown, David, and H. L. Bonney, Lawrence, Mass. Hand-threading shuttle. No. 1,000,372; Aug. 15; Sp. p. 2472; Gaz. vol. 169; p. 462.
Brown-Durie, Alexander. (See McDonald and Brown-Durie.)
Brown, Earl D., Kalispell, Mont. Railway-switch. No. 1,006,717; Oct. 24; Sp. p. 4740; Gaz. vol. 171; p. 845.
Brown, Earl J., assignor to F. Gerlach, trustee, Chicago, Ill. Optical instrument. No. 987,951; Mar. 28; Sp. p. 4692; Gaz. vol. 164; p. 839.
Brown, Edgar W., Dayton, Ohio. Adjustable support for electric fans. No. 994,904; June 13; Sp. p. 1799; Gaz. vol. 167; p. 317.
Brown, Edith W., *et al.* (See Amann, Charles H., assignor.)
Brown, Edward, and S. H. Martin, Toronto, Ontario, assignors to The Martin Corrugated Paper and Box Company, Limited, Toronto, Canada. Automatic shearing-machine. No. 1,009,028; Nov. 14; Sp. p. 3123; Gaz. vol. 172; p. 520.
Brown, Eric, Baden, Switzerland. Fluid-operated turbine. No. 986,901; Mar. 14; Sp. p. 2435; Gaz. vol. 164; p. 421.
Brown, Eric, Baden, Switzerland. Fluid-operated turbine. No. 986,902; Mar. 14; Sp. p. 2436; Gaz. vol. 164; p. 421.
Brown, Eugene C. (See Eastman, George N., assignor.)
Brown, Eugene L., Jr., St. Louis, Mo. Rod-bending apparatus. No. 1,001,244; Aug. 22; Sp. p. 4398; Gaz. vol. 169; p. 800.
Brown, Frank H. and F. H., Portland, Oreg. Grinding or crushing mill. No. 1,008,946; Nov. 14; Sp. p. 2940; Gaz. vol. 172; p. 491.
Brown, Frank I., Glasgow, Mont. Mail-bag deliverer. No. 989,563; Apr. 18; Sp. p. 2726; Gaz. vol. 165; p. 486.
Brown, Frank M., Salem, Oreg. Window-sash. No. 981,374; Jan. 10; Sp. p. 2743; Gaz. vol. 162; p. 445.
Brown, Fred H. (See Brown, Frank H. and F. H.)
Brown, Fred H., Los Angeles, Cal., assignor to National Electric & Magnetic Company. Apparatus for transmitting sound-waves. No. 1,006,429; Oct. 17; Sp. p. 4097; Gaz. vol. 171; p. 714.
Brown, Frederick C., Komata, New Zealand. Apparatus for the treatment of ores and for the electrolytic deposition of gold and silver and other metals from solutions containing said metals. No. 987,428; Mar. 21; Sp. p. 3520; Gaz. vol. 164; p. 629.
Brown, Frederick C., Waihi, New Zealand. Lining for tube-mills and ball-mills. No. 991,421; May 2; Sp. p. 1262; Gaz. vol. 166; p. 211.
Brown, Frederick M., *et al.* (See Stokes, Homer, assignor.)
Brown, Gary G., Roseburg, Oreg. Thread-cutting die. No. 984,745; Feb. 21; Sp. p. 3250; Gaz. vol. 163; p. 574.
Brown, George A., Boise, Idaho. Combination try-square. No. 991,693; May 9; Sp. p. 1881; Gaz. vol. 166; p. 339.
Brown, George C., New London, Conn. Storage-box for sensitized paper. No. 987,952; Mar. 28; Sp. p. 4695; Gaz. vol. 164; p. 839.
Brown, George F., *et al.*, executors. (See Brown, Linus W.)
Brown, George T., New York, N. Y. Timer. No. 997,746; July 11; Sp. p. 2430; Gaz. vol. 168; p. 424.
Brown, George W., Salamonie township, Huntington county, Ind. Internal-combustion engine. No. 987,852; Mar. 28; Sp. p. 4418; Gaz. vol. 164; p. 804.
Brown, Gilman W., assignor of one-half to H. L. Brown and one-half to H. W. Brown, West Newbury, Mass. Motor-priming apparatus. No. 1,004,359; Sept. 26; Sp. p. 4775; Gaz. vol. 170; p. 844.
Brown, Goodwin, Yonkers, N. Y. Coffee-cartridge. No. 1,010,721; Dec. 5; Sp. p. 714; Gaz. vol. 173; p. 113.
Brown, Gustaf A., Annandale, Minn. Milking-pail attachment. No. 992,480; May 16; Sp. p. 3559; Gaz. vol. 166; p. 637.
Brown, Gustavus R. (See Ayres, Gustav, assignor.)
Brown, Gustavus R. (See Jackson, Franklin B., assignor.)
Brown, Hamilton, and R. Barton, Glasgow, Scotland. Sash-cord fastener. No. 1,011,734; Dec. 12; Sp. p. 3011; Gaz. vol. 173; p. 502.
Brown, Harold S., Stratford, Conn., assignor to J. O. Lashar, Brooklyn, N. Y. Churning or mixing apparatus. No. 993,821; May 30; Sp. p. 6440; Gaz. vol. 166; p. 1160.
Brown, Harry M., Brooklyn, N. Y., assignor to R. A. Canfield, Providence, R. I. Machine for applying stoppers or sealing devices. No. 1,002,559; Sept. 5; Sp. p. 841; Gaz. vol. 170; p. 124.
Brown, Haydn L., *et al.* (See Brown, Gilman W., assignor.)
Brown, Hayes. (See McKinley and Brown.)
Brown, Hayes, Harrisburg, assignor of one-half to J. S. McKinley, Orient, Ohio. Tubular rivet. No. 1,011,151; Dec. 12; Sp. p. 1687; Gaz. vol. 173; p. 297.
Brown, Henry L., Paterson, N. J., assignor to Brown Spin-Wright Company, New York, N. Y. Spindle. No. 987,546; Mar. 21; Sp. p. 3747; Gaz. vol. 164; p. 670.
Brown, Henry R., Pharsalia, N. Y. Milking-stool. No. 989,326; Apr. 11; Sp. p. 2200; Gaz. vol. 165; p. 374.
Brown, Herbert C., *et al.* (See Eckels, George M., assignor.)
Brown, Herbert C. (See Wilcox, Frank E., assignor.)
Brown, Herbert O., Fairfield, Me. Vending-machine. No. 993,021; May 23; Sp. p. 4705; Gaz. vol. 166; p. 857.
Brown Hoisting Machinery Company, The. (See Dowd, John P., assignor.)
Brown Hoisting Machinery Company, The. (See Taylor, Ernest W., assignor.)
Brown Hoisting Machinery Company, The. (See Wright, Charles H., assignor.)
Brown, Hollen, assignor of one-half to V. B. Korner, Upland, Ind. Rail-joint. No. 990,835; May 2; Sp. p. 17; Gaz. vol. 166; p. 5.
Brown, Horace P., Emeryville, Cal. Binding books. No. 1,001,245; Aug. 22; Sp. p. 4399; Gaz. vol. 169; p. 800.
Brown, Horace W., *et al.* (See Brown, Gilman W., assignor.)
Brown, James A. (See Sutherland and Brown.)

Alphabetical list of patentees—Continued.

Brown, James A., assignor of one-half to H. W. Patton, Baltimore, Md. Folding table. No. 983,674; Feb. 7; Sp. p. 908; Gaz. vol. 163; p. 144.
Brown, James H., St. Charles, Ill. Seed-tester. No. 984,746; Feb. 21; Sp. p. 3251; Gaz. vol. 163; p. 574.
Brown, John, Pittsburg, Pa. Feed-bag support. No. 992,107; May 9; Sp. p. 2673; Gaz. vol. 166; p. 476.
Brown, John C., *et al.* (See Hohnhorst, William J., assignor.)
Brown, John D., Suffern, N. Y. Mold and making the same. No. 984,346; Feb. 14; Sp. p. 2371; Gaz. vol. 163; p. 401.
Brown, John E., Putnam, Conn. Covered milk-pail. No. 1,005,687; Oct. 10; Sp. p. 2463; Gaz. vol. 171; p. 422.
Brown, John E., Sarnia, Ontario, Canada, assignor of one-half to L. W. Turnbull, Port Huron, Mich. Double-acting two-cycle internal-combustion engine. No. 1,007,331; Oct. 31; Sp. p. 6116; Gaz. vol. 171; p. 1115.
Brown, John H., West Hoboken, N. J. Projectile. No. 997,538; July 11; Sp. p. 1947; Gaz. vol. 168; p. 349.
Brown, John H., West Hoboken, N. J. Gun. No. 997,539; July 11; Sp. p. 1948; Gaz. vol. 168; p. 349.
Brown, John H., West Hoboken, N. J. Projectile. No. 997,540; July 11; Sp. p. 1949; Gaz. vol. 168; p. 349.
Brown, John H., Marseilles, Ill. Shoe or boot tread. No. 1,011,110; Dec. 5; Sp. p. 1564; Gaz. vol. 173; p. 247.
Brown, John H., Jersey City, N. J., assignor to United States Ordnance & Projectile Company. Tubular structure. No. 1,004,142; Sept. 26; Sp. p. 4356; Gaz. vol. 170; p. 772.
Brown, John J., Baltimore, Md. Dump-wagon. No. 1,007,332; Oct. 31; Sp. p. 6118; Gaz. vol. 171; p. 1115.
Brown, John N. D., Anadarko, Okla. Railway road-bed and track construction. No. 987,041; Mar. 14; Sp. p. 2684; Gaz. vol. 164; p. 465.
Brown, John N. D., Anadarko, Okla. Railway road-bed and track construction. No. 992,403; May 16; Sp. p. 3397; Gaz. vol. 166; p. 612.
Brown, John N. D., Anadarko, Okla. Railway road-bed, track, and rail construction. No. 1,009,020; Nov 14; Sp. p. 3105; Gaz. vol. 172; p. 516.
Brown, John W. (See Levy, Charles C., assignor.)
Brown, John W. (See Ordway and Brown.)
Brown, John W., High Point, N. C. Tether. No. 982,469; Jan. 24; Sp. p. 5077; Gaz. vol. 162; p. 876.
Brown, John W., Lakewood, Ohio, assignor to National Carbon Company. Electric furnace. No. 987,953; Mar. 28; Sp. p. 4697; Gaz. vol. 164; p. 839.
Brown, John W., Jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Apparatus for discharging sand and castings from flasks. No. 1,011,735; Dec. 12; Sp. p. 3012; Gaz. vol. 173; p. 502.
Brown, John W., Jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Pig-iron breaker. No. 1,011,736; Dec. 12; Sp. p. 3014; Gaz. vol. 173; p. 503.
Brown, Julius, Peekskill, N. Y. Explosive gas-turbine engine. No. 990,222; Apr. 25; Sp. p. 4134; Gaz. vol. 165; p. 740.
Brown, L. A., *et al.* (See Koch, Leonard, assignor.)
Brown, Layton, assignor of one-half to F. L. Zimmerman, Youngstown, Ohio. Type-writer attachment. No. 990,223; Apr. 25; Sp. p. 4139; Gaz. vol. 165; p. 741.
Brown, Leighton L. (See Becker and Brown.)
Brown, Lender B., Lexington, Ky. Envelop. No. 998,461; July 18; Sp. p. 4048; Gaz. vol. 168; p. 717.
Brown, Lewis O., and L. Bauroth, Toledo, Ohio, assignors to The Metallic Barrel Company, Chicago, Ill. Barrel-making machine. No. 1,003,427; Sept. 19; Sp. p. 2700; Gaz. vol. 170; p. 496.
Brown, Linus W., deceased, Bakersfield, Cal.; G. F. Brown and D. L B. Condon, executors. Oil and sand separator. No. 990,800; Apr. 25; Sp. p. 5466; Gaz. vol. 165; p. 941.
Brown, Linus W., deceased, Monrovia, Cal.; G. F. Brown and D. L. B. Condon, executors. Breaking up and separating the gaseous liquid and solid constituents of crude petroleum. No. 994,100; May 30; Sp. p. 6987; Gaz. vol. 166; p. 1253.
Brown, Louis O., Toledo, Ohio. Means for securing bail-ears, &c., to receptacles. No. 1,003,697; Sept. 19; Sp. p. 3305; Gaz. vol. 170; p. 592.
Brown, Louis O., Toledo, Ohio, assignor to The Metallic Barrel Company, Chicago, Ill. Metallic vessel. No. 1,005,933; Oct 17; Sp. p. 3004; Gaz. vol. 171; p. 541.
Brown, Louis O., and L. Bauroth, Toledo, Ohio, assignors to The Metallic Barrel Company, Chicago, Ill. Closure for metallic packages. No. 1,005,934; Oct. 17; Sp. p. 3006; Gaz. vol. 171; p. 541.
Brown, Lucius A., Clay Center, Nebr. Score-keeper. No. 985,655; Feb. 28; Sp. p. 5199; Gaz. vol. 163; p. 919.
Brown, Luther, Platte county, near Rushville, Mo. Vehicle-brake for use on hay-racks. No. 1,006,058; Oct. 17; Sp. p. 3257; Gaz. vol. 171; p. 583.
Brown, Marcus A., St. Louis, Mo., assignor to M. A. Brown Paper Box Company. Reticulated-sheet packing material. No. 1,002,132; Aug. 29; Sp. p. 6245; Gaz. vol. 169; p. 1129.
Brown, Mark A., assignor to The Safety Car Coupler Co. Inc., Chattanooga, Tenn. Car-coupling. No. 981,746; Jan. 17; Sp. p. 3496; Gaz. vol. 162; p. 593.
Brown, Mark A., assignor to Brown Automatic Connector Company, Chattanooga, Tenn. Attachment for air-brake couplings. No. 1,012,514; Dec. 19; Sp. p. 4684; Gaz. vol. 173; p. 804.
Brown Metallic Packing Company. (See Brussard, Martin, assignor.)
Brown, Nat E., Grand Haven, Mich. Aerial photographic apparatus. No. 1,002,897; Sept. 12; Sp. p. 1612; Gaz. vol. 170; p. 279.
Brown, Nimrod W. L., Thomasville, Ala. Machine for delinting cotton-seed. No. 997,177; July 4; Sp. p. 1228; Gaz. vol. 168; p. 199.
Brown, Orlow F., Lexington, Mich. Horse-detacher. No. 1,003,698; Sept. 19; Sp. p. 3306; Gaz. vol. 170; p. 592.
Brown, Orlow F., Lexington, Mich. Automatic detaching holdback. No. 1,010,115; Nov. 28; Sp. p. 5443; Gaz. vol. 172; p. 976.
Brown, Orra A. (See Bonney and Brown.)
Brown, Orra A., Wichita, Kans. Ticket printer and register. No. 983,872; Feb. 14; Sp. p. 1344; Gaz. vol. 163; p. 241.
Brown, Otis E., Brockton, Mass., assignor to The Singer Manufacturing Company. Needle mechanism for sewing-machines. No. 1,001,809; Aug. 29; Sp. p. 5576; Gaz. vol. 169; p. 1022.
Brown, Otis E., Brockton, Mass., assignor to The Singer Manufacturing Company. Wax-thread machine. No. 1,002,217; Sept. 5; Sp. p. 44; Gaz. vol. 170; p. 5.
Brown, Otis E., Brockton, Mass., assignor to The Singer Manufacturing Company. Thread-waxing device for sewing-machines. No. 1,008,947; Nov. 14; Sp. p. 2942; Gaz. vol. 172; p. 491.
Brown, Patrick H., Temple, Tex. Powder-dividing machine. No. 999,696; Aug. 1; Sp. p. 978; Gaz. vol. 169; p. 171.
Brown, Peabody A., Denver, Colo. Electrically-operated automatic cut-out. No. 982,346; Jan. 24; Sp. p. 4800; Gaz. vol. 162; p. 831.
Brown, Peabody A., Denver, Colo. Electric alarm. No. 1,002,820; Sept. 12; Sp. p. 1412; Gaz. vol. 170; p. 252.
Brown, Peabody A., Denver, Colo. Electric alarm. No. 1,004,740; Oct. 3; Sp. p. 418; Gaz. vol. 171; p. 70.
Brown, Percy S. (See Kern, Edward F., assignor.)
Brown, Perry, Wilmington, Del. Draft-rigging. No. 1,005,100; Oct. 3; Sp. p. 1125; Gaz. vol. 171; p. 190.
Brown, Richard J., Roxbury, assignor of one-half to T. H. Lynch, Boston, Mass. Safety-razor. No. 999,483; Aug. 1; Sp. p. 567; Gaz. vol. 169; p. 99.
Brown, Robert, Belfast, Ireland. Sewing-machine for fancy stitch and embroidery work. No. 986,354; Mar. 7; Sp. p. 1253; Gaz. vol. 164; p. 202.
Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Journal-bearing. No. 1,003,868; Sept. 19; Sp. p. 3646; Gaz. vol. 170; p. 648.
Brown, Robert S., assignor to New Britain Machine Company, New Britain, Conn. Journal-box. No. 1,006,529; Oct. 24; Sp. p. 4347; Gaz. vol. 171; p. 779.
Brown, Robert S., assignor to The New Britain Machine Company, New Britain, Conn. Machine for mortising pulleys. No. 1,007,180; Oct. 31; Sp. p. 5804; Gaz. vol. 171; p. 1061.
Brown, Royl A., Ashland, Ohio, assignor to New York Buckle Company. Buckle. No. 993,320; May 23; Sp. p. 5314; Gaz. vol. 166; p. 954.
Brown, Samuel, assignor to The Nashawannuck Mfg. Co., Easthampton, Mass. Elastic webbing. No. 997,747; July 11; Sp. p. 2432; Gaz. vol. 168; p. 424.
Brown, Samuel W., Hebron, Ind. Water-heater. No. 985,001; Feb. 21; Sp. p. 3734; Gaz. vol. 163; p. 659.
Brown & Sharpe Manufacturing Company. (See Fuchs, Leon, assignor.)
Brown & Sharpe Manufacturing Company. (See Newton, George H., assignor.)
Brown and Sharpe Manufacturing Company. (See Rich, Charles A., assignor.)
Brown & Sharpe Manufacturing Company. (See Spalding, Frank, assignor.)
Brown, Silas B., assignor to The Rockaway Coaster Company, Cincinnati, Ohio. Hand-truck. No. 980,485; Jan. 3; Sp. p. 669; Gaz. vol. 162; p. 109.
Brown Spin-Wright Company. (See Brown, Henry L., assignor.)
Brown, St. Elmo. (See Bird, John L., assignor.)
Brown, Stephen H., Rust, Cal. Separator. No. 990,954; May 2; Sp. p. 274; Gaz. vol. 166; p. 47.
Brown Straw Binder Company, The. (See Hancock, Harry A., assignor.)
Brown, Theodore P., Worcester, Mass. Furnace-controlling device. No. 1,009,466; Nov. 21; Sp. p. 4121; Gaz. vol. 172; p. 711.
Brown, Theodore P., assignor to Simplex Player Action Co., Worcester, Mass. Sliding panel for musical instruments. No. 1,006,461; Oct. 24; Sp. p. 4190; Gaz. vol. 171; p. 754.

Alphabetical list of patentees—Continued.

Brown, Theodore P., assignor to Simplex Player Action Company, Worcester, Mass. Accenting device for music-players. No. 1,011,567; Dec. 12; Sp. p. 2650; Gaz. vol. 173; p. 445.
Brown, Theodore P., assignor to Simplex Player Action Co., Worcester, Mass. Tracker. No. 1,011,568; Dec. 12; Sp. p. 2653; Gaz. vol. 173; p. 445.
Brown, Theophilus, assignor to Richardson Manufacturing Company, Worcester, Mass. Manure-spreader. No. 986,903; Mar. 14; Sp. p. 2438; Gaz. vol. 164; p. 421.
Brown, Theophilus, assignor to Richardson Manufacturing Company, Worcester, Mass. Manure-spreader. No. 990,472; Apr. 25; Sp. p. 4721; Gaz. vol. 165; p. 830.
Brown, Theophilus, assignor to Richardson Manufacturing Company, Worcester, Mass. Manure-spreader. (Reissue.) No. 13,318; Nov. 21; Sp. p. 4604; Gaz. vol. 172; p. 796.
Brown, Thomas R., New York, N. Y., assignor, by mesne assignments, to National Pneumatic Company. Pneumatic door-operating mechanism. No. 1,002,027; Aug. 29; Sp. p. 6053; Gaz. vol. 169; p. 1095.
Brown, Thomas R., New York, N. Y., assignor, by mesne assignments, to National Pneumatic Company. Pneumatic door-operating mechanism. No. 1,002,028; Aug. 29; Sp. p. 6055; Gaz. vol. 169; p. 1095.
Brown, Thomas R., New York, N. Y., assignor, by mesne assignments, to National Pneumatic Company. Pneumatic door-operating mechanism. No. 1,002,029; Aug. 29; Sp. p. 6057; Gaz. vol. 169; p. 1096.
Brown, Thomas R., New York, N. Y., assignor, by mesne assignments, to National Pneumatic Company. Door-operating mechanism. No. 1,002,030; Aug. 29; Sp. p. 6060; Gaz. vol. 169; p. 1096.
Brown, Thomas R., New York, N. Y., assignor, by mesne assignments, to National Pneumatic Company. Pneumatic door-operating mechanism. No. 1,002,195; Aug. 29; Sp. p. 6382; Gaz. vol. 169; p. 1150.
Brown, Tom W., assignor of one-half to F. C. Tilley, London, England. Pressure-regulator No. 982,123; Jan. 17; Sp. p. 4338; Gaz. vol. 162; p. 724.
Brown, Troy L. (See Carns and Brown.)
Brown, Walter B., Chicago, and R. A. Holbrook, Chicago Heights, assignors to Victor Chemical Works, Chicago, Ill. Baking preparation. No. 990,699; Apr. 25; Sp. p. 5253; Gaz. vol. 165; p. 906.
Brown, Walter E., Herrick, S. D. Cultivator. No. 1,003,869; Sept. 19; Sp. p. 3649; Gaz. vol. 170; p. 649.
Brown, Walter F., Worcester, Mass. Speed-indicator. No. 1,001,613; Aug. 29; Sp. p. 5152; Gaz. vol. 169; p. 955.
Brown, Wilford C., Holyoke, Mass. Lay structure for wire-looms. No. 980,591; Jan. 3; Sp. p. 896; Gaz. vol. 162; p. 144.
Brown, William. (See Estes, Barton, assignor.)
Brown, William A. (See Kelly, William G., assignor.)
Brown, William A. J., Lancaster, Kans. Stalk-chopper. No. 983,477; Feb. 7; Sp. p. 475; Gaz. vol. 163; p. 75.
Brown, William C., Prescott, Ontario, Canada. Centrifugal and turbine pump and the like. No. 984,189; Feb. 14; Sp. p. 2014; Gaz. vol. 163; p. 346.
Brown, William C., U. S. Army. Shelf attachment for tents. No. 985,002; Feb. 21; Sp. p. 3735; Gaz. vol. 163; p. 660.
Brown, William E. (See Scovill and Brown.)
Brown, William H., Newark, Ohio. Hydrocarbon-burner. No. 998,835; July 25; Sp. p. 4892; Gaz. vol. 168; p. 881.
Brown, William R., Chicago, Ill., assignor, by mesne assignments, to The Water Works Specialty Company. Differential-pressure gage. No. 1,001,810; Aug. 29; Sp. p. 5579; Gaz. vol. 169; p. 1023.
Brown, William S., New York, N. Y. Terminal connector or coupling for electric conduits. No. 1,005,506; Oct. 10; Sp. p. 2037; Gaz. vol. 171; p. 358.
Brown, Willis S., assignor to National Sewing Machine Company, Belvidere, Ill. Feeding mechanism for sewing-machines. No. 986,682; Mar. 14; Sp. p. 1963; Gaz. vol. 164; p. 346.
Browne, Ashleigh H., Lebanon, Ohio. Hasp-fastener. No. 1,007,639; Oct. 31; Sp. p. 6787; Gaz. vol. 171; p. 1220.
Browne, Frank E., Los Angeles, Cal. Vented valved funnel-bucket. No. 989,113; Apr. 11; Sp. p. 1725; Gaz. vol. 165; p. 300.
Browne, Richard B., assignor to Richey, Browne & Donald, Maspeth, N. Y. Casting. No. 982,572; Jan. 24; Sp. p. 5274; Gaz. vol. 162; p. 910.
Browne, Walter E., Dallas, Tex. Oval-beveling machine. No. 1,001,346; Aug. 22; Sp. p. 4624; Gaz. vol. 169; p. 836.
Browning, Clarence P., Brooklyn, N. Y. Etching-machine. No. 993,503; May 30; Sp. p. 5741; Gaz. vol. 166; p. 1048.
Browning, George. (See Mallmann and Browning.)
Browning, John H. F., Roxbury, assignor of one-half to R. Storck, Dayton, Ohio. Sewing-machine. No. 1,002,560; Sept. 5; Sp. p. 846; Gaz. vol. 170; p. 125.
Browning, John M., Ogden, Utah. Recoil-operated firearm. No. 984,263; Feb. 14; Sp. p. 2211; Gaz. vol. 163; p. 373.
Browning, John M., Ogden, Utah. Firearm. No. 984,519; Feb. 14; Sp. p. 2731; Gaz. vol. 163; p. 458.
Browning, Justus A., Ogden, Utah. Nail-clipper. No. 994,119; June 6; Sp. p. 34; Gaz. vol. 167; p. 8.
Browning, Justus A., Ogden, Utah. Car-derailer. No. 1,001,927; Aug. 29; Sp. p. 5850; Gaz. vol. 169; p. 1063.
Browning, Robert D., Orange, Va. Account-cabinet. No. 983,531; Feb. 7; Sp. p. 579; Gaz. vol. 163; p. 93.
Browning, Tillie J., Philadelphia, Pa. Garment-hook. No. 981,375; Jan. 10; Sp. p. 2744; Gaz. vol. 162; p. 445.
Browning, Tillie J., Philadelphia, Pa. Flower-pot holder. No. 999,202; Aug. 1; Sp. p. 21; Gaz. vol. 169; p. 6.
Browning, Walter H., Wembley, London, assignor to The British Adding Machine Company, Limited, Westminster, England. Apparatus for adding or calculating. No. 1,010,227; Nov. 28; Sp. p. 5655; Gaz. vol. 172; p. 1012.
Brownlee, James H., Philadelphia, Pa. Gas-heated iron. No. 992,334; May 16; Sp. p. 3257; Gaz. vol. 166; p. 587.
Brownrigg, William A., Boston, Mass. Machine for slitting reinforced strips. No. 1,000,664; Aug. 15; Sp. p. 3135; Gaz. vol. 169; p. 568.
Brownson, Ralph, St. Paul, Minn. Carpet-beater. No. 1,009,130; Nov. 21; Sp. p. 3340; Gaz. vol. 172; p. 590.
Brubacher, H. J., *et al.* (See Messer, Vladimir V., assignor.)
Brubacher, J. B., *et al.* (See Messer, Vladimir V., assignor.)
Brubaker, Abraham, Warsaw, Ind. Protractor. No. 989,327; Apr. 11; Sp. p. 2201; Gaz. vol. 165; p. 374.
Brubaker, H. J., *et al.* (See Messer, Vladimir V., assignor.)
Brubaker, J. B., *et al.* (See Messer, Vladimir V., assignor.)
Bruce, Andrew M., Fulton, Mo. Tire-armor. No. 997,646; July 11; Sp. p. 2191; Gaz. vol. 168; p. 388.
Bruce, Charles, *et al.* (See Crocker, James, assignor.)
Bruce, Robert A., *et al.* (See Homan, James, assignor.)
Bruce, William M., Jr., Springfield, Ohio, assignor, by mesne assignments, to The American Automatic Telephone Company, Rochester, N. Y. Individual selective lock-out device for party-line telephone systems. No. 994,371; June 6; Sp. p. 563; Gaz. vol. 167; p. 96.
Bruce, William M., Jr., Springfield, Ohio, assignor, by mesne assignments, to The American Automatic Telephone Company, Rochester, N. Y. Selective system for party-line telephones. No. 994,500; June 6; Sp. p. 817; Gaz. vol. 167; p. 138.
Bruce, William M., Jr., Springfield, Ohio, assignor, by mesne assignments, to The American Automatic Telephone Company, Rochester, N. Y. Party-line telephone system. No. 1,000,488; Aug. 15; Sp. p. 2717; Gaz. vol. 169; p. 504.
Brück, Fritz, Osnabrück, Germany. Controlling apparatus for submarine mines. No. 1,011,152; Dec. 12; Sp. p. 1688; Gaz. vol. 173; p. 297.
Bruck, Walter. (See Herzberg and Bruck.)
Brucken, Joseph. (See Gossman and Brucken.)
Brucker, Francis, assignor to Standard Manufacturing Co., Shelby, Ohio. Combined spring-hinge and check. No. 980,592; Jan. 3; Sp. p. 898; Gaz. vol. 162; p. 145.
Brucker, Francis, Shelby, Ohio, assignor to The Standard Manufacturing Co. Combined door closer and check for doors. No. 1,007,523; Oct. 31; Sp. p. 6533; Gaz. vol. 171; p. 1181.
Brucker, Louis, Boston, Mass. Sweeper. No. 982,240; Jan. 24; Sp. p. 4563; Gaz. vol. 162; p. 794.
Bruckmann, Franz, Jr. (See Sharp, Lee C., assignor.)
Bruckmann, Franz, Lüdenscheid, assignor to Mensing, Bruckmann & Co., Neuss, Germany. Shaker for ingot-molds. No. 1,010,851; Dec. 5; Sp. p. 1016; Gaz. vol. 173; p. 158.
Bruckner, Rudolph E., Mount Vernon, N. Y. Inverted-incandescent-mantle lamp. No. 982,790; Jan. 31; Sp. p. 5737; Gaz. vol. 162; p. 1011.
Bruckner, Rudolph E., Mount Vernon, assignor to Commercial Acetylene Company, New York, N. Y. Flue construction for signal-lamps. No. 986,043; Mar. 7; Sp. p. 617; Gaz. vol. 164; p. 99.
Bruckshaw, Harry, Denton, near Manchester, England. Mold for hat-brims. No. 993,344; May 30; Sp. p. 5388; Gaz. vol. 166; p. 996.
Bruders, Peter, Aachen, Germany. Feeding-bottle. (Reissue.) No. 13,308; Nov. 7; Sp. p. 1414; Gaz. vol. 172; p. 229.
Brudy, John, Wolverine, Mich. Washing-machine. No. 980,757; Jan. 3; Sp. p. 1239; Gaz. vol. 162; p. 198.
Brueck, Henry. (See Martell, Charles H., assignor.)
Brueckner, Charles, *et al.* (See Healy, Christopher J., assignor.)
Bruen, Edwin C., Brooklyn, N. Y. Vehicle-tire. No. 987,668; Mar. 21; Sp. p. 4004; Gaz. vol. 164; p. 713.
Bruggeman, Frank T. (See Kather, Konrad, assignor.)
Brügmann, William F., Chicago, Ill. Printer's register-hook. No. 983,675; Feb. 7; Sp. p. 910; Gaz. vol. 163; p. 144.
Bruhn, Bruno, Hamburg, Germany, assignor, by mesne assignments, to The Atlas Portland Cement Company, New York, N. Y. Cement and making same. No. 983,024; Jan. 31; Sp. p. 6265; Gaz. vol. 162; p. 1090.

Bruhn, Fred and R., Vicksburg, Miss. Fertilizer-distributer. No. 997,367; July 11; Sp. p. 1621; Gaz. vol. 168; p. 294.
Bruhn, John H., Jr., Spirit Lake, Iowa. Automatic fire-alarm. No. 986,355; Mar. 7; Sp. p. 1254; Gaz. vol. 164; p. 203.
Bruhn, Robert. (See Bruhn, Fred and R.)
Bruhn, Wilhelm G., Berlin, Germany. Taximeter. No. 993,645; May 30; Sp. p. 6044; Gaz. vol. 166; p. 1098.
Brull, Eugene C., Chicago, Ill. Filing-machine. No. 982,791; Jan. 31; Sp. p. 5738; Gaz. vol. 162; p. 1012.
Brumback, John H., Strasburg, Va. Railway-crossing. No. 986,356; Mar. 7; Sp. p. 1256; Gaz. vol. 164; p. 203.
Brumback, Orville S. (See Winter, Wellington P., assignor.)
Brumbaugh, Gaius M. (See Joyce, Maurice E., assignor.)
Brumbly, Frank J., and E. B. Aker, La Jara, Colo. Potato-cutter. No. 995,054; June 13; Sp. p. 2116; Gaz. vol. 167; p. 367.
Brummel, Henry E., Booneville, Mo. Gate. No. 981,161; Jan. 10; Sp. p. 2245; Gaz. vol. 162; p. 371.
Brummel, Henry E., Boonville, Mo. Gate. No. 1,011,569; Dec. 12; Sp. p. 2655; Gaz. vol. 173; p. 446.
Brummer, William H., Venice, Ill. Boiler-feed-pump regulator. No. 997,038; July 4; Sp. p. 953; Gaz. vol. 168; p. 152.
Brunacci, Luigi, New York, N. Y. Safety-razor. No. 980,593; Jan. 3; Sp. p. 899; Gaz. vol. 162; p. 145.
Brundage, Fred A., Belmont, N. Y. Cow-stanchion. No. 1,011,024; Dec. 5; Sp. p. 1362; Gaz. vol. 173; p. 217.
Brundage, Lowell M., Jackson, Pa. Means for cleaning stables. No. 990,700; Apr. 25; Sp. p. 5255; Gaz. vol. 165; p. 907.
Brundelius, Max. (See Fritsch and Brundelius.)
Brüne, Conrad, Radeberg, Germany. Multifloor kiln. No. 1,001,347; Aug. 22; Sp. p. 4628; Gaz. vol. 169; p. 836.
Brune, Frederick, Milwaukee, Wis. Conductor-hook. No. 1,002,640; Sept. 5; Sp. p. 1023; Gaz. vol. 170; p. 153.
Brune, Henry. (See Ball, Samuel M., assignor.)
Brunelle, Arthur J. (See La Londe and Brunelle.)
Brunelle, Homer A. (See La Londe and Brunelle.)
Brunelle, Onésime F., Centerdale, R. I. Frame adapted to be attached to bedsteads for supporting bed-covers. No. 984,070; Feb. 14; Sp. p. 1786; Gaz. vol. 163; p. 307.
Brunelle, Philias G., Jr., and C. Voetsch, Turners Falls, Mass. Spool-stand. No. 997,898; July 11; Sp. p. 2785; Gaz. vol. 168; p. 476.
Bruner, Martin R., Wapakoneta, Ohio. Metallic wheel. No. 1,009,642; Nov. 21; Sp. p. 4454; Gaz. vol. 172; p. 768.
Brüning, Paul O. H., Berlin, Germany. Spring-button and like fastening. No. 1,009,278; Nov. 21; Sp. p. 3701; Gaz. vol. 172; p. 644.
Bruninga, John H. (See Jacobson, Sydney J., assignor.)
Brunner, Arnold, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Fluorescein dyestuff and making same. No. 990,224; Apr. 25; Sp. p. 4143; Gaz. vol. 165; p. 741.
Brunner, Henry E., Hayward, Cal. Plasterer's hawk. No. 1,001,811; Aug. 29; Sp. p. 5583; Gaz. vol. 169; p. 1024.
Brunner, Peter W. (See Stambaugh and Brunner.)
Bruno, Joseph, Mianus, Conn. Window-lock. No. 1,012,515; Dec. 19; Sp. p. 4687; Gaz. vol. 173; p. 805.
Bruns, Hans T., Nuremberg, Germany. Valve. No. 1,005,409; Oct. 10; Sp. p. 1825; Gaz. vol. 171; p. 325.
Bruns, Hans T., Nuremberg, Germany. Starting and reversing mechanism for multicylinder internal-combustion engines. No. 1,005,507; Oct. 10; Sp. p. 2038; Gaz. vol. 171; p. 358.
Bruns, Hans T., Nuremberg, Germany. Multicylinder internal-combustion engine. No. 1,008,693; Nov. 14; Sp. p. 2407; Gaz. vol. 172; p. 407.
Bruns, Henry C. (See Brandenburg and Schmidt, assignors.)
Bruns, Henry C. (See La Tier and Dietel, assignors.)
Bruns, John M., Waterloo, Iowa, assignor to F. C. Austin, Chicago, Ill. Track. No. 997,541; July 11; Sp. p. 1950; Gaz. vol. 168; p. 349.
Brunst, William M., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Flexible or rolling metallic shutter. No. 994,440; June 6; Sp. p. 700; Gaz. vol. 167; p. 120.
Brunswick-Balke-Collender Company of New York, The. (See Hobbs, Francis C., assignor.)
Brunswick-Balke-Collender Company of New York, The. (See Hobbs, Frank C., assignor.)
Brunswick-Balke-Collender Company of New York, The. (See Rogers, Charles R., assignor.)
Brunswick Refrigerating Company, The. (See Whitaker and Lowe, assignors.)
Brunton, William, Elwyn, Pa. Combined valve and trap. No. 1,004,239; Sept. 26; Sp. p. 4553; Gaz. vol. 170; p. 805.
Brunzwick, John, and H. C. Ahrens, assignors to The C. Schmidt Company, Cincinnati, Ohio. Door. No. 981,527; Jan. 10; Sp. p. 3054; Gaz. vol. 162; p. 498.
Brupbacher, Fritz, and F. P. Volmer, New York, N. Y.; said Volmer assignor to said Brupbacher. Shoe-form. No. 1,011,570; Dec. 12; Sp. p. 2658; Gaz. vol. 173; p. 446.
Brush, Alanson P., Flint, Mich. Driving connection between the rear axle structure and chassis-frame. No. 985,247; Feb. 28; Sp. p. 4314; Gaz. vol. 163; p. 780.
Brush, Alanson P., Flint, Mich. Multiple-disk clutch. No. 987,954; Mar. 28; Sp. p. 4700; Gaz. vol. 164; p. 840.
Brush, Alanson P., Detroit, Mich. Explosion-engine. No. 1,012,323; Dec. 19; Sp. p. 4318; Gaz. vol. 173; p. 741.
Brush Development Company, The. (See Crume, Albert, assignor.)
Brush Mop Wringer Manufacturing Company, The. (See Beazley, Joseph O., assignor.)
Brushaber, Charles. (See Nash, Lawrence S., assignor.)
Brussard, Martin, assignor, by mesne assignments, to Brown Metallic Packing Company, Seattle, Wash. Metallic packing. No. 983,201; Jan. 31; Sp. p. 6598; Gaz. vol. 162; p. 1148.
Brusse, James L. (See Watts, Brusse, and Tiedemann.)
Brussel, Hugues, assignor to Reinforced Concrete Company, St. Louis, Mo. Reinforcement for concrete constructions. No. 994,091; May 30; Sp. p. 6969; Gaz. vol. 166; p. 1250.
Brust, Albert G., assignor of one-third to E. W. Anderson, Washington, D. C. Apparatus for molding plastic material. No. 997,647; July 11; Sp. p. 2193; Gaz. vol. 168; p. 388.
Brust, Frank P., Tacoma, Wash. Cooking utensil. No. 1,003,428; Sept. 19; Sp. p. 2705; Gaz. vol. 170; p. 497.
Bryan Brothers Manufacturing Company. (See Logsdon, Alfred, assignor.)
Bryan, Earl I., Miles City, Mont. Broiler. No. 994,056; May 30; Sp. p. 6893; Gaz. vol. 166; p. 1238.
Bryan, John, Yellow Springs, Ohio. Plow. No. 994,120; June 6; Sp. p. 35; Gaz. vol. 167; p. 8.
Bryan, John K. (See Aldrich and Bryan.)
Bryan, Robert W., assignor of one-half to G. B. Reid, Aberdeen, Wash. Engine cross-head. No. 987,853; Mar. 28; Sp. p. 4422; Gaz. vol. 164; p. 804.
Bryan, Thomas. (See Rice, Bryan, and Goodrich.)
Bryan, William A. (See Lawler, Bryan, and Keller.)
Bryant, Charles, London, England. Chain link or coupling. No. 1,000,710; Aug. 15; Sp. p. 3228; Gaz. vol. 169; p. 583.
Bryant, Clyde J., assignor, by mesne assignments, to Workman Mfg. Co., Chicago, Ill. Loose-leaf binder. No. 997,599; July 11; Sp. p. 2071; Gaz. vol. 168; p. 370.
Bryant Electric Company, The. (See Anderson and Thomas, assignors.)
Bryant Electric Company, The. (See Clauder, Arthur W., assignor.)
Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.) (Reissue.)
Bryant Electric Company, The. (See Martin, Joseph E., assignor.) (Reissue.)
Bryant Electric Company, The. (See Seeley, Frank E., assignor.)
Bryant Electric Company, The. (See Seeley and Thomas, assignors.)
Bryant Electric Company, The. (See Thomas, George B., assignor.)
Bryant Electric Company, The. (See Thomas and Seeley, assignors.)
Bryant, Ellsworth S. (See Lamont, James D., assignor.)
Bryant, Ellsworth S., and E. Cederstrom, Detroit, Mich. Reversing mechanism. No. 992,157; May 16; Sp. p. 2819; Gaz. vol. 166; p. 525.
Bryant, George, and W. Underwood, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 999,203; Aug. 1; Sp. p. 23; Gaz. vol. 169; p. 6.
Bryant, George, Finsbury Park, London, and C. H. Ivinson, Ilford, England; said Bryant assignor to said Ivinson. Treatment of metals and alloys. No. 1,002,133; Aug. 29; Sp. p. 6246; Gaz. vol. 169; p. 1129.
Bryant, George W., New York, N. Y. Spring contracting and removing device. No. 1,008,694; Nov. 14; Sp. p. 2409; Gaz. vol. 172; p. 407.
Bryant, James G., assignor to American Machinery Company, Port Huron, Mich. Grinding-disk. No. 1,009,021; Nov. 14; Sp. p. 3109; Gaz. vol. 172; p. 517.
Bryant, Joseph D., Columbus, Ohio. Liquid wax-finish. No. 987,042; Mar. 14; Sp. p. 2687; Gaz. vol. 164; p. 465.
Bryant, Rose U., Monterey county, Cal. Dish-washer. No. 1,012,804; Dec. 26; Sp. p. 5342; Gaz. vol. 173; p. 951.
Bryant, Thomas, assignor of one-half to A. H. Wethey, Butte, Mont. Safety shaft-sinking cross-head. No. 983,120; Jan. 31; Sp. p. 6458; Gaz. vol. 162; p. 1122.
Bryant, Thomas, assignor of one-half to A. H. Wethey, Butte, Mont. Safety device for shaft-sinking. No. 998,599; July 25; Sp. p. 4347; Gaz. vol. 168; p. 797.
Bryant, Willard G., Detroit, Mich. Drum. No. 1,009,467; Nov. 21; Sp. p. 4123; Gaz. vol. 172; p. 711.
Bryant, William A., Wetumpka, assignor of one-half to J. L. Roumillat and one-half to C. J. Belgau, Tampa, Fla. Computing-machine. No. 994,716; June 13; Sp. p. 1335; Gaz. vol. 167; p. 252.

Alphabetical list of patentees—Continued.

Bryant, William L., Springfield, Vt. Multispindle grinding-machine. No. 983,975; Feb. 14; Sp. p. 1560; Gaz. vol. 163; p. 274.
Bryce, Edwin W., Pittsburg, Pa. Collar for glass lamps. No. 1,003,699; Sept. 19; Sp. p. 3307; Gaz. vol. 170; p. 592.
Bryce, Edwin W., Pittsburgh, Pa. Manufacturing glass lamps. No. 1,009,022; Nov. 14; Sp. p. 3111; Gaz. vol. 172; p. 517.
Bryen, George J., Duquesne, Pa. Stop mechanism for shears. No. 1,012,805; Dec. 26; Sp. p. 5343; Gaz. vol. 173; p. 951.
Bryfogle, Alexander, West Easton, Pa. Rail-fastening for metallic railway-ties. No. 993,149; May 23; Sp. p. 4977; Gaz. vol. 166; p. 900.
Bryte, Asbury R., Bellevue, Pa. Trousers-supporter. No. 991,694; May 9; Sp. p. 1883; Gaz. vol. 166; p. 340.
Bub, Karl. (See Huck, Albert, assignor.)
Bubb, Asher D., Cleveland, Ohio. Document file for desks and safes. No. 1,003,230; Sept. 12; Sp. p. 2308; Gaz. vol. 170; p. 396.
Bubb, Elmer F., Chicago, Ill. Automatic switch. No. 1,004,981; Oct. 3; Sp. p. 915; Gaz. vol. 171; p. 151.
Bubola, Tullio, Luipaardsvlei, Transvaal. Apparatus for electrochemical treatment of ores. No. 991,695; May 9; Sp. p. 1884; Gaz. vol. 166; p. 340.
Buch, Charles A., *et al.* (See Beahm, Peter, assignor.)
Buch, Royer S., Elizabethtown, Pa. Molder's flask. No. 983,676; Feb. 7; Sp. p. 914; Gaz. vol. 163; p. 144.
Buch, Royer S., Elizabethtown, Pa. Molder's flask and bar therefor. No. 993,953; May 30; Sp. p. 6686; Gaz. vol. 166; p. 1203.
Buchan, Hugh G., Newark, N. J. Binder and securing clip-joint therefor. No. 984,120; Feb. 14; Sp. p. 1882; Gaz. vol. 163; p. 323.
Buchanan, Albert E., assignor to The Massey-Harris Company, Limited, Toronto, Ontario, Canada. Clutch mechanism. No. 1,003,979; Sept. 26; Sp. p. 3931; Gaz. vol. 170; p. 714.
Buchanan, Amos W., Bryan, Tex. Stalk-cutter. No. 1,007,916; Nov. 7; Sp. p. 616; Gaz. vol. 172; p. 95.
Buchanan, Burtis L., Charlotte, N. C. Machine for manufacturing bottle crowns or caps. No. 987,084; Mar. 14; Sp. p. 2762; Gaz. vol. 164; p. 478.
Buchanan, Charles, Ashland, and M. Jarvis, Crestline, Ohio. Concrete-mixing machine. No. 1,001,729; Aug. 29; Sp. p. 5394; Gaz. vol. 169; p. 995.
Buchanan, De Witt W., Chicago, Ill. Tiling for roofs. No. 989,328; Apr. 11; Sp. p. 2203; Gaz. vol. 165; p. 374.
Buchanan, Frank, Dayton, Ohio. Electric switch. No. 1,012,806; Dec. 26; Sp. p. 5347; Gaz. vol. 173; p. 951.
Buchanan, Frank L., assignor to Frank L. Buchanan Mining Machinery Manufacturing Company, St. Louis, Mo. Crusher and pulverizer. No. 991,477; May 9; Sp. p. 1386; Gaz. vol. 166; p. 262.
Buchanan, George W. (See Anderson and Buchanan.)
Buchanan, James A. (See Lefebvre, Louis, assignor.)
Buchanan, John H., Ashley, Pa. Mail-handling apparatus. No. 985,003; Feb. 21; Sp. p. 3736; Gaz. vol. 163; p. 660.
Buchanan, Stanley. (See Kurtz and Buchanan.)
Buchanan, William, Brooklyn, N. Y. Furnace. No. 991,269; May 2; Sp. p. 950; Gaz. vol. 166; p. 160.
Buchanan, William A., Asheville, N. C. Neck-yoke coupling. No. 1,001,614; Aug. 29; Sp. p. 5156; Gaz. vol. 169; p. 955.
Bucher and Gibbs Plow Company. (See Gordon and Niesz, assignors.)
Buchholz, Paul R., Chattanooga, Tenn. Blade-holder. No. 1,003,870; Sept. 19; Sp. p. 3651; Gaz. vol. 170; p. 649.
Buchholz, Theodor, Kalk, near Cologne, Germany. Fittings for supporting electric conductors. No. 1,011,910; Dec. 19; Sp. p. 3408; Gaz. vol. 173; p. 597.
Buchhop, Ferdinand, New York, N. Y., assignor to The Meyrowitz Manufacturing Co. Ophthalmometer. No. 1,006,825; Oct. 24; Sp. p. 4999; Gaz. vol. 171; p. 884.
Büchi, Alfred, Winterthur, Switzerland. Hydrocarbon power plant. No. 1,006,907; Oct. 24; Sp. p. 5193; Gaz. vol. 171; p. 913.
Buchler, Izidor, assignor to L. B. Wasserstrom, New York, N. Y. Stropping-machine. No. 1,011,571; Dec. 12; Sp. p. 2659; Gaz. vol. 173; p. 447.
Büchner, Hugo, Berlin, Germany, assignor, by mesne assignments, to Anticor Mfg. Co. Corn-cutter. No. 983,202; Jan. 31; Sp. p. 6599; Gaz. vol. 162; p. 1148.
Buchsbaum, Max, New York, N. Y. Skirt-marker. No. 985,508; Feb. 28; Sp. p. 4902; Gaz. vol. 163; p. 869.
Buck, Alfred E., Loughton, England. Reversible turbine. No. 992,335; May 16; Sp. p. 3258; Gaz. vol. 166; p. 588.
Buck, Christian J., Gallitzin, Pa., assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 995,842; June 20; Sp. p. 3832; Gaz. vol. 167; p. 666.
Buck, David V., assignor of one-half to J. S. Reitmeyer, New Columbia, Pa. Rail-joint. No. 1,012,807; Dec. 26; Sp. p. 5350; Gaz. vol. 173; p. 952.
Buck, Ernest L., Courtenay, N. D. Hame-fastener. No. 1,004,360; Sept. 26; Sp. p. 4778; Gaz. vol. 170; p. 844.
Buck, John R. (See Smyth and Buck.)
Buck, Miles R., and M. L. Todd, assignors of one-third to F. C. Roy, Rochester, N. Y. Razor-stropper. No. 993,345; May 30; Sp. p. 5390; Gaz. vol. 166; p. 996.

Buck, Vertrude P., Boston, assignor to Shawmut Machinery Company, Boston, Mass. Seam-rubbing machine. No. 1,011,737; Dec. 12; Sp. p. 3015; Gaz. vol. 173; p. 503.
Buck, William F., Chicago, Ill. Locomotive. No. 1,000,489; Aug. 15; Sp. p. 2723; Gaz. vol. 169; p. 505.
Buckalew, John D., Topeka, Kans. Cut-off valve. No. 1,006,353; Oct. 17; Sp. p. 3935; Gaz. vol. 171; p. 688.
Buckeye Manufacturing Company, The. (See Lambert, Benjamin F., assignor.)
Buckeye Manufacturing Company, The. (See Lambert, John W., assignor.)
Buckham, George T. (See Dawson and Buckham.)
Buckingham, Frank W., assignor to Metal Specialties Manufacturing Company, Chicago, Ill. Balance-wheel holder. No. 1,003,132; Sept. 12; Sp. p. 2087; Gaz. vol. 170; p. 359.
Buckingham, Fremont H., assignor to Standard Computing Scale Company, Limited, Detroit, Mich. Platform-lever mechanism. No. 993,822; May 30; Sp. p. 6442; Gaz. vol. 166; p. 1161.
Buckius, Albert O., Jr., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Truck side frame. No. 995,949; June 20; Sp. p. 4043; Gaz. vol. 167; p. 703.
Buckius, Albert O., Jr., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Truck side frame. No. 996,035; June 20; Sp. p. 4218; Gaz. vol. 167; p. 732.
Buckland, Bradford M. (See All and Buckland.)
Buckley, Duer H., Vienna, assignor of one-half to C. C. Williams, Warren, Ohio. Steering-gear connection. No. 1,000,893; Aug. 15; Sp. p. 3607; Gaz. vol. 169; p. 648.
Buckley, John, Lynn, Mass. Upper for boots and shoes. No. 987,214; Mar. 21; Sp. p. 3078; Gaz. vol. 164; p. 558.
Buckley, John, Lynn, Mass. Protector for the bottoms of shoes. No. 991,046; May 2; Sp. p. 454; Gaz. vol. 166; p. 78.
Buckley, John, Franklin, Idaho. Spinning-head. No. 988,306; Apr. 4; Sp. p. 20; Gaz. vol. 165; p. 6.
Buckley, John, Boston, assignor to Viscol Company, East Cambridge, Mass. Advertising device. No. 993,346; May 30; Sp. p. 5392; Gaz. vol. 166; p. 996.
Buckley, Joseph H., Winchester, Ill. Can-opener. No. 1,007,524; Oct. 31; Sp. p. 6535; Gaz. vol. 171; p. 1182.
Buckley, Paul E., Alton, N. H. Stovepipe-thimble for wall-flues. No. 980,919; Jan. 10; Sp. p. 1647; Gaz. vol. 162; p. 285.
Bucklin, Harrison. (See Hofman, Bucklin, and Burr.)
Bucklin, Harrison, Rochester, N. Y. Order sheet and book. No. 994,372; June 6; Sp. p. 568; Gaz. vol. 167; p. 97.
Bucklin, Orson, Marietta, Minn. End-gate and lifting-jack. No. 982,792; Jan. 31; Sp. p. 5740; Gaz. vol. 162; p. 1012.
Buckman, A. S. (See Bird, Walter, assignor.)
Buckman, Henry H., Jr., assignor of one-third to W. J. Richards and one-third to H. H. Fulton, Indianapolis, Ind. Acetylene-gas package. No. 996,969; July 4; Sp. p. 777; Gaz. vol. 168; p. 127.
Buckman, Walter R., Philadelphia, Pa. Rotary weeder. No. 980,194; Jan. 3; Sp. p. 28; Gaz. vol. 162; p. 8.
Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Resurfacing mechanism. No. 985,973; Mar. 7; Sp. p. 466; Gaz. vol. 164; p. 75.
Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,000,490; Aug. 15; Sp. p. 2727; Gaz. vol. 169; p. 505.
Buckminster, Ira C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Press. No. 1,010,476; Dec. 5; Sp. p. 158; Gaz. vol. 173; p. 28.
Bucknam, Albion L. (See Hand and Bucknam.)
Buckner, John B., Nowata, Okla. Lift-pump. No. 1,009,892; Nov. 28; Sp. p. 4978; Gaz. vol. 172; p. 899.
Buckwalter, Joseph A., and H. W. Kern, assignors to Buckwalter Stove Company, Royersford, Pa. Heating-stove. No. 1,005,508; Oct. 10; Sp. p. 2040; Gaz. vol. 171; p. 359.
Buckwalter Stove Company. (See Buckwalter and Kern, assignors.)
Buckwalter, Tracy V., Altoona, Pa. Tie-truck. No. 981,975; Jan. 17; Sp. p. 4044; Gaz. vol. 162; p. 674.
Buckwalter, Tracy V., Altoona, Pa. Axle-bearing. No. 987,854; Mar. 28; Sp. p. 4423; Gaz. vol. 164; p. 805.
Buckwalter, Tracy V., Altoona, Pa. Baggage-truck. No. 993,823; May 30; Sp. p. 6446; Gaz. vol. 166; p. 1161.
Buckwalter, Tracy V., Altoona, Pa. Metal shape. No. 1,007,845; Nov. 7; Sp. p. 465; Gaz. vol. 172; p. 69.
Buckwalter, Winfred P. (See Baisden, John H., Jr., assignor.)
Bucyrus Company, The. (See Ferris, Walter, assignor.)
Bucyrus Company, The. (See Ferris and Parker, assignors.)
Buda Company, The. (See Jenkins, Merrill L., assignor.)
Buda Company. (See Miller, Harry L., assignor.)
Buday, James, Philadelphia, Pa. Lock. No. 987,043; Mar. 14; Sp. p. 2687; Gaz. vol. 164; p. 465.

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Budde, Henry A., Manchester, Conn. Transmission-gearing. No. 1,001,615; Aug. 29; Sp. p. 5157; Gaz. vol. 169; p. 956.
Buderus'sche Eisenwerke. (See Jantzen, Georg, assignor.)
Budesheim, William, and J. D. Stinchcomb, Baltimore, Md., assignors to W. F. Beasley, Plymouth, N. C. Emergency-tire for automobile-wheels, &c. No. 1,010,014; Nov. 28; Sp. p. 5250; Gaz. vol. 172; p. 940.
Budil, Alfred, Brackwede, Germany. Air-filter. No. 1,012,122; Dec. 19; Sp. p. 3893; Gaz. vol. 173; p. 673.
Budlong, Frank, Ashley Falls, Mass. End-gate fastener for wagons. No. 993,954; May 30; Sp. p. 6688; Gaz. vol. 166; p. 1203.
Budlong, Frank M., San Jose, Cal., assignor of three-fourths to W. F. Budlong, Berea, Ohio. Automatic-balance high-pressure pump. No. 1,004,982; Oct. 3; Sp. p. 920; Gaz. vol. 171; p. 152.
Budlong, Wilbur F. (See Budlong, Frank M., assignor.)
Budlong, Wilbur F., assignor to Bean Spray Pump Co., San Jose, Cal. Valve. No. 1,001,246; Aug. 22; Sp. p. 4400; Gaz. vol. 169; p. 800.
Bueb, Julius, Dessau, Germany. Making ammonium carbonate. No. 1,004,361; Sept. 26; Sp. p. 4780; Gaz. vol. 170; p. 845.
Buechele, Eli M., Jubilee, Iowa. Fence-post and wire-fastener. No. 1,000,774; Aug. 15; Sp. p. 3378; Gaz. vol. 169; p. 607.
Buechner, Albert O., Zurich, Switzerland, assignor to Prana Gesellschaft für Tageslicht-Projektion mit beschränkter Haftung, Hamburg, Germany. Picture-band for kinematographic purposes. No. 1,010,228; Nov. 28; Sp. p. 5663; Gaz. vol. 172; p. 1013.
Buechner, Oswald, Zurich, Switzerland, assignor to Prana Gesellschaft für Tageslicht-Projektion mit beschränkter Haftung, Hamburg, Germany. Projection-screen. No. 997,899; July 11; Sp. p. 2786; Gaz. vol. 168; p. 476.
Buege, William C. (See Stroner and Buege.)
Buehler, Ernest B., Greenville, Miss. Stalk-cutter. No. 1,006,462; Oct. 24; Sp. p. 4192; Gaz. vol. 171; p. 755.
Buehrig, La Trelle F., Wessington Springs, S. D. Oil force-pump. No. 1,005,594; Oct. 10; Sp. p. 2265; Gaz. vol. 171; p. 390.
Buell, Harry J., Mansfield, Ohio, assignor of one-eighth to J. L. Sproat, Pittsburgh, Pa., and one-half to W. A. Plastow, Hamilton, Canada. Composite railway-tie. No. 1,006,430; Oct. 17; Sp. p. 4099; Gaz. vol. 171; p. 714.
Buell, Levi N., and J. E. Wheeler, Cullman, Ala. Concrete railway-tie. No. 1,005,150; Oct. 10; Sp. p. 1230; Gaz. vol. 171; p. 230.
Buente, George F., New York, N. Y., and H. C. Fling, Spring Lake, N. J. Safety-signal for vehicles. No. 1,007,671; Nov. 7; Sp. p. 21; Gaz. vol. 172; p. 7.
Buer, Heinrich C., Bonn, Germany. Extraction of lecithin from the seeds of lupines and other pulses. No. 1,001,247; Aug. 22; Sp. p. 4401; Gaz. vol. 169; p. 801.
Buerger, Theodore J., *et al.* (See Wadsworth, Frank M., assignor.)
Buery, George. (See Brown, Claud V., assignor.)
Buess, Wilhelm, Hanover, Germany. Crucible-furnace or the like. No. 987,793; Mar. 28; Sp. p. 4299; Gaz. vol. 164; p. 783.
Buff, Max, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Blue vat dye. No. 998,156; July 18; Sp. p. 3371; Gaz. vol. 168; p. 608.
Buffalo Dental Manufacturing Company, The. (See Lewis, Theodore G., assignor.)
Buffalo Foundry & Machine Company. (See Sleeper, Oliver S., assignor.)
Buffalo Leather Co. (See Smith, William R., assignor.)
Buffalo Pitts Company. (See Todd, Marquis J., assignor.)
Buffalo Radiator Company. (See McKeown, William C., assignor.)
Buffalo Scale Company. (See Vidinghoff, Charles A., assignor.)
Buffalo Sled Company. (See Orcutt, Charles D., assignor.)
Buffum, Frederick D. (See Eavenson, Buffum, and Flexner.)
Buffum Tool Company. (See Mann, Miles H., assignor.)
Bugbee, Glenn W., Syracuse, N. Y., assignor to Milton Bradley Company, Springfield, Mass. Game. No. 986,683; Mar. 14; Sp. p. 1965; Gaz. vol. 164; p. 346.
Büge, Max, Schramberg, Germany. Clock-gong. No. 993,022; May 23; Sp. p. 4709; Gaz. vol. 166; p. 857.
Bugg, Mary V., Hoboken, N. J. Corset-shield. No. 981,376; Jan. 10; Sp. p. 2745; Gaz. vol. 162; p. 446.
Bugge, Mogens F., Christiania, Norway. Tool for hauling timber and the like. No. 1,007,769; Nov. 7; Sp. p. 258; Gaz. vol. 172; p. 42.
Buhler, Arthur H., Chicago, Ill. Folding couch. No. 997,267; July 11; Sp. p. 1413; Gaz. vol. 168; p. 260.
Bühler, Friedrich A., Grosslichterfelde, near Berlin, Germany. Apparatus for drying and conveying moist materials. No. 992,939; May 23; Sp. p. 4531; Gaz. vol. 166; p. 829.
Bühler, Jakob, Zurich, Switzerland. Artificial-stone building-block. No. 989,564; Apr. 18; Sp. p. 2727; Gaz. vol. 165; p. 486.
Buhlig, Moritz, Chicago, Ill. Ash-sifter. No. 983,532; Feb. 7; Sp. p. 582; Gaz. vol. 163; p. 94.
Buhoup, Harry C., Chicago, Ill. Car-truck. No. 987,695; Mar. 28; Sp. p. 4086; Gaz. vol. 164; p. 750.
Buhoup, Harry C., Chicago, Ill. Car-truck. No. 994,501; June 6; Sp. p. 823; Gaz. vol. 167; p. 138.
Buhoup, Harry C., Chicago, Ill. Car-truck. No. 994,635; June 6; Sp. p. 1120; Gaz. vol. 167; p. 184.
Buhoup, Harry C., Chicago, Ill., assignor to The McConway & Torley Company, Pittsburg, Pa. Buffer-block. No. 984,071; Feb. 14; Sp. p. 1788; Gaz. vol. 163; p. 308.
Buhr, Joseph, Norwood, Ohio. Gasolene-separator. No. 995,521; June 20; Sp. p. 3108; Gaz. vol. 167; p. 553.
Bühring, Otto, Mannheim, Germany. Apparatus for the separation of liquids from gases or vapors. No. 981,058; Jan. 10; Sp. p. 2033; Gaz. vol. 162; p. 334.
Buktenica, Joseph, Chicago, Ill. Non-refillable bottle or jar. No. 1,001,928; Aug. 29; Sp. p. 5853; Gaz. vol. 169; p. 1063.
Bulger, James, Bulger, Colo. Device for controlling locomotive-headlights. No. 1,012,516; Dec. 19; Sp. p. 4687; Gaz. vol. 173; p. 805.
Bulger, James J., assignor of one-half to J. J. Cashion, Chicago, Ill. Method and apparatus for the construction of foundations. No. 1,003,171; Sept. 12; Sp. p. 2179; Gaz. vol. 170; p. 373.
Bulgin, William G., Franklin, N. C. Smelter smoke-washer. No. 1,011,025; Dec. 5; Sp. p. 1364; Gaz. vol. 173; p. 217.
Bulin, Edward, Superior, Wis. Window-fixture. No. 993,955; May 30; Sp. p. 6689; Gaz. vol. 166; p. 1203.
Bull, Charles H., Chicago, Ill. Car-seal. No. 1,003,980; Sept. 26; Sp. p. 3932; Gaz. vol. 170; p. 714.
Bull, George F., Birmingham, England. Shaking-barrel. No. 1,010,229; Nov. 28; Sp. p. 5664; Gaz. vol. 172; p. 1013.
Bull, William B., assignor to Chloride Process Company, Chicago, Ill. Purifying water. No. 982,704; Jan. 24; Sp. p. 5538; Gaz. vol. 162; p. 954.
Bull, William B., assignor to Chloride Process Company, Chicago, Ill. Apparatus for purifying water. No. 982,705; Jan. 24; Sp. p. 5541; Gaz. vol. 162; p. 954.
Bull, William B., assignor to Chloride Process Company, Chicago, Ill. Purifying water. No. 1,012,808; Dec. 26; Sp. p. 5351; Gaz. vol. 173; p. 952.
Bull, William B., assignor to Chloride Process Company, Chicago, Ill. Apparatus for purifying water. No. 1,012,809; Dec. 26; Sp. p. 5353; Gaz. vol. 173; p. 953.
Bullard, Edward P., Jr., Stratford, assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Turret-head for machine-tools. No. 993,290; May 23; Sp. p. 5253; Gaz. vol. 166; p. 942.
Bullard, Edward P., Jr., assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Changeable driving connection for machine-tools. No. 995,322; June 13; Sp. p. 2621; Gaz. vol. 167; p. 454.
Bullard, Edwin W. (See Bullard, James H. and E. W.)
Bullard, James H. and E. W., Springfield, Mass. Speedometer supporting and driving mechanism. No. 986,684; Mar. 14; Sp. p. 1966; Gaz. vol. 164; p. 346.
Bullard Machine Tool Co., The. (See Bullard, Edward P., Jr., assignor.)
Bullard Machine Tool Co., The. (See Bullard, Stanley H., assignor.)
Bullard Machine Tool Co., The. (See Mussler, Henry F., assignor.)
Bullard, Stanley H., assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Counterbalancing device for machine-tools. No. 995,420; June 13; Sp. p. 2881; Gaz. vol. 167; p. 489.
Bullard, Washington I., assignor to E. H. Jacobs Manufacturing Co., Danielson, Conn. Shackle-strap. No. 1,010,580; Dec. 5; Sp. p. 403; Gaz. vol. 173; p. 64.
Buller, William H., E. Glassbrook, and H. N. Hanchett, Jackson, Mich. Spring-motor. No. 1,002,561; Sept. 5; Sp. p. 853; Gaz. vol. 170; p. 125.
Bullert, Edward H., Stewart, Minn. Hot-air intake. No. 986,357; Mar. 7; Sp. p. 1259; Gaz. vol. 164; p. 203.
Bullis, Frederick O., Rochester, N. Y. Dispensing-machine. No. 994,717; June 13; Sp. p. 1338; Gaz. vol. 167; p. 252.
Bullis, W. S. (See Dearing, Joseph W., assignor.)
Bullock, Arthur R., Cleveland, Ohio. Spark-plug protector. No. 1,009,643; Nov. 21; Sp. p. 4455; Gaz. vol. 172; p. 768.
Bullock, Arthur S., Aitkin, Minn. Meat-tenderer. No. 988,170; Mar. 28; Sp. p. 5136; Gaz. vol. 164; p. 911.
Bullock, Charles A. H. (See Daniel and Bullock.)
Bullock, Davis J. (See Nunamaker, James L., assignor.)
Bullock, Edwin P. (See Cook and Bullock.)
Bullock, Edwin R., Pawtucket, R. I. Ginning member for cotton-gins. No. 1,003,327; Sept. 12; Sp. p. 2504; Gaz. vol. 170; p. 431.
Bullock, Edwin R., Pawtucket, R. I. Ginning apparatus. No. 1,005,807; Oct. 17; Sp. p. 2704; Gaz. vol. 171; p. 495.
Bullock Electric Manufacturing Company, The, *et al.* (See Behrend, Bernard A., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Behrend and Field, assignors.)

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Bullock Electric Manufacturing Company, The, *et al.* (See Cheney, Herbert W., assignor.)
Bullock Electric Manufacturing Company, The. (See Crocker, Clarence T., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Hall, David, assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Lietzenmayer, William J., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Mattman, Emil, assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Menningen, Joseph F., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Powell, William H., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Ralston, Howard H., assignor.)
Bullock Electric Manufacturing Company. (See Van Valkenburg, Hermon L., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Williamson, Robert B., assignor.)
Bullock Electric Manufacturing Company, The, *et al.* (See Wouters, Alfred H., assignor.)
Bullock, Henry E., *et al.* (See Houghton, Orley C., assignor.)
Bullock, Henry E., and R. C. Scherling, assignors to H. E. and J. E. Bullock, Chicago, Ill. Cotton-harvester. No. 1,009,381; Nov. 21; Sp. p. 3932; Gaz. vol. 172; p. 681.
Bullock, James E., *et al.* (See Bullock and Scherling, assignors.)
Bullock, James E., *et al.* (See Houghton, Orley C., assignor.)
Bulock, Charles O., assignor to The H. W. Johns-Manville Company, Cleveland, Ohio. Metallic packing. No. 980,594; Jan. 3; Sp. p. 901; Gaz. vol. 162; p. 145.
Bumm, George W. (See Hall and Bumm.)
Bump, George P., La Crosse, Wis., assignor of one-half to J. C. Hawkins, Newton, Iowa. Fastening paper sheets and the like. No. 1,009,644; Nov. 21; Sp. p. 4456; Gaz. vol. 172; p. 768.
Bumpus, Nathan. (See Walters and Bumpus.)
Bumstead, Albert W., New Britain, Conn., assignor of one-half to D. J. Spellacy, Brooklyn, N. Y. Liquid-measure. No. 1,012,517; Dec. 19; Sp. p. 4689; Gaz. vol. 173; p 805.
Bunch, David F., J. E., J. A., and W. H., Blalock, Oreg. Vehicle-brake. No. 998,671; July 25; Sp. p. 4512; Gaz. vol. 168; p. 823.
Bunch, John A. (See Bunch, David F., J. E., J. A., and W. H.)
Bunch, Julius E. (See Bunch, David F., J. E., J. A., and W. H.)
Bunch, William H. (See Bunch, David F., J. E., J. A., and W. H.)
Bundy, Cyrus L., *et al.* (See Acker, Julius J., assignor.)
Bundy, Cyrus L., Kingsland, N. J., assignor of fifty-one per cent. to W. P. Murphy, Chicago, Ill., and twenty-four and five-tenths per cent. to J. J. Acker, Horton, Kans. Slack-adjuster for brakes. No. 988,970; Apr. 11; Sp. p. 1419; Gaz. vol. 165; p. 251.
Bundy, Henry C., Watertown, N. Y., assignor to M. H. Hart, Akron, Ohio, and R. Many, Chicago, Ill. Door-releasing device. No. 981,913; Jan. 17; Sp. p. 3885; Gaz. vol. 162; p. 653.
Bundy Manufacturing Company. (See Knistrom, August, assignor.)
Bundy Manufacturing Company. (See Martin, George L., assignor.)
Bundy, Willard H., assignor to W. H. Bundy Recording Company, Syracuse, N. Y. Time-recorder. No. 983,533; Feb. 7; Sp. p. 583; Gaz. vol. 163; p. 94.
Bunker, James H., Milan, Kans. Oiler. No. 987,283; Mar. 21; Sp. p. 3225; Gaz. vol. 164; p. 582.
Bunker, William L., San Francisco, and S. Lindo, Berkeley, Cal. Means for treating the exhaust-steam of piston steam-engines. No. 1,002,804; Sept. 5; Sp. p. 1376; Gaz. vol. 170; p. 209.
Bunn, Minor K., Bloomington, Ill. Garbage-receptacle. No. 991,270; May 2; Sp. p. 952; Gaz vol. 166; p. 160.
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Drainage-excavator. No. 991,696; May 9; Sp. p. 1886; Gaz. vol. 166; p. 340.
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Excavating-machine. No. 997,542; July 11; Sp. p. 1952; Gaz. vol. 168; p. 350.
Bunnell, Morton G., assignor to F. C. Austin, Chicago, Ill. Excavator. No. 997,543; July 11; Sp. p. 1954; Gaz. vol. 168; p. 350.
Bunnell, Morton G., assignor to J. Cratty and G. C. Mastin, Chicago, Ill. Razor-blade grinder. No. 1,005,808; Oct. 17; Sp. p. 2707; Gaz. vol. 171; p. 495.
Bunnell, Morton G., Porter, Ind., assignor to J. Cratty and G. C. Mastin, Chicago, Ill. Safety-razor. No. 1,011,111; Dec. 5; Sp. p. 1565; Gaz. vol. 173; p. 248.
Bunnell, Sterling H., New York, N. Y. Mixing or ice-cream-freezing machinery. No. 991,604; May 9; Sp. p. 1679; Gaz. vol. 166; p. 307.
Bunnell, Walter A. (See Miller and Bunnell.)
Bunnig, Max, Gardelegen, Germany. Machine for folding letters and putting them into envelops. No. 999,204; Aug. 1; Sp. p. 26; Gaz. vol. 169; p. 6.
Bunte Brothers. (See Bunte, Theodore W., assignor.)
Bunte, Theodore W., Chicago, Ill., assignor to Bunte Brothers. Stacking-tray. No. 1,008,239; Nov. 7; Sp. p. 1279; Gaz. vol. 172; p. 209.
Bunten, John B., Mount Auburn, Iowa. Harrow-cart. No. 996,747; July 4; Sp. p. 293; Gaz. vol. 168; p. 51.
Buntenbach, August, Union City, Pa. Clothes rack and drier. No. 1,004,983; Oct. 3; Sp. p. 921; Gaz. vol. 171; p. 152.
Buras, Leon, Jr., Venice, La. Fish-hook extractor. No. 1,000,775; Aug. 15; Sp. p. 3379; Gaz. vol. 169; p. 607.
Buras, Norbert, and E. P. Larry, Venice, La. Switch throwing and locking apparatus. No. 991,422; May 2; Sp. p. 1264; Gaz. vol. 166; p. 211.
Burbank, Charles H., assignor to The Barcley Corset Company, Newark, N. J. Wire-bending machine. No. 1,002,218; Sept. 5; Sp. p. 53; Gaz. vol. 170; p. 6.
Burbank, Stephen F., Honolulu, Hawaii. Reinforced-concrete pile. No. 983,677; Feb. 7; Sp. p. 917; Gaz. vol. 163; p. 145.
Burbank, Stephen F., Honolulu, Hawaii. Mold for concrete piles or columns. No. 983,678; Feb. 7; Sp. p. 918; Gaz. vol. 163; p. 145.
Burbee, Frank S., Rock Glen, and W. H. Crist, Silver Springs, N. Y. Car-door attachment. No. 997,039; July 4; Sp. p. 954; Gaz. vol. 168; p. 152.
Burby, John M., Elizabeth, N. J., assignor of one-half to F. Muser, Chicago, Ill. Blotting. No. 994,667; June 6; Sp. p. 1198; Gaz. vol. 167; p. 195.
Burch, Charles H., Copake, N. Y. Check-bit. No. 986,044; Mar. 7; Sp. p. 618; Gaz. vol. 164; p. 99.
Burch, Frederick W., Pueblo, Colo. Lambing-tent. No. 998,462; July 18; Sp. p. 4049; Gaz. vol. 168; p. 718.
Burch, Henry, La Grange, Tenn. Implement. No. 997,368; July 11; Sp. p. 1624; Gaz. vol. 168; p. 294.
Burch, Henry M., Atlanta, Ga. Feeding attachment for type-writing machines. No. 994,905; June 13; Sp. p. 1801; Gaz. vol. 167; p. 317.
Burch, John B., Bowling Green, Ky. Steamboat-wheel. No. 986,435; Mar. 14; Sp. p. 1440; Gaz. vol. 164; p. 260.
Burchard, Mayo H., Chicago, Ill., and R. P. Noble, Portland, Oreg. Electropneumatic braking appliance for railways. No. 1,012,059; Dec. 19; Sp. p. 3742; Gaz. vol. 173; p. 650.
Burchardi, Bernhardt T. (See Wahlstrom, Verner J., assignor.)
Burchartz, Ferdinand, New York, N. Y. Building construction. No. 982,030; Jan. 17; Sp. p. 4154; Gaz. vol. 162; p. 693.
Burchartz, Ferdinand, New York, N. Y. Hollow building-block. No. 983,534; Feb. 7; Sp. p. 586; Gaz. vol. 163; p. 94.
Burchartz, Ferdinand, New York, N. Y. Sectional building-block. No. 986,132; Mar. 7; Sp. p. 786; Gaz. vol. 164; p. 127.
Burchartz, Ferdinand, New York, N. Y. Making hollow building-blocks. No. 986,798; Mar. 14; Sp. p. 2212; Gaz. vol. 164; p. 384.
Burchell, Harry, Philadelphia, Pa. Music-leaf turner. No. 996,208; June 27; Sp. p. 4635; Gaz. vol. 167; p. 827.
Burchfield, Clarence E., Johnson City, Tenn. Automatic pipe-coupling. No. 1,009,645; Nov. 21; Sp. p. 4457; Gaz. vol. 172; p. 768.
Burckhardt, Rudolf. (See De la Harpe and Burckhardt.)
Burd, Lacy L. (See Marshall, Henry, assignor.)
Burden, William J. (See Hodgkinson, Percy W., assignor.)
Burdett, John B., assignor to National Pneumatic Company, Chicago, Ill. Divided door for street-cars or other purposes. No. 1,002,031; Aug. 29; Sp. p. 6063; Gaz. vol. 169; p. 1097.
Burdett, John B., assignor to National Pneumatic Company, Chicago, Ill. Welding-torch construction. No. 1,002,134; Aug. 29; Sp. p. 6247; Gaz. vol. 169; p. 1129.
Burdett, John B., assignor to National Pneumatic Company, Chicago, Ill. Welding-burner. No. 1,002,135; Aug. 29; Sp. p. 6249; Gaz. vol. 169; p. 1130.
Burdett, John B., assignor to National Pneumatic Company, Chicago, Ill. Welding or cutting torch. No. 1,002,136; Aug. 29; Sp. p. 6250; Gaz. vol. 169; p. 1130.
Burdett-Rowntree Manufacturing Company. (See Doyle, James S., assignor.)
Burdette, Charles E., Long Meadow township, Hampden county, Mass. Automatic fountain. No. 997,268; July 11; Sp. p. 1415; Gaz. vol. 168; p. 260.
Burdette, Robert T., *et al.* (See Downer, John H., assignor.)
Burdette, Robert T., Los Angeles, Cal. Ratchet-pawl-releasing mechanism. No. 981,162; Jan. 10; Sp. p. 2246; Gaz. vol. 162; p. 371.
Burdette, Robert T., Los Angeles, Cal. Power-driven post-hole excavator. No. 1,000,578; Aug. 15; Sp. p. 2938; Gaz. vol. 169; p. 537.
Burdick, Frank W., Hartford, assignor to himself, and B. F. Turner, Middletown, Conn. Paper-cutter. No. 988,439; Apr. 4; Sp. p. 321; Gaz. vol. 165; p. 52.
Burdick, George E., Coldwater, and J. H. Burdick, Quincy, Mich. Ice-cleaning means for ice-wagons. No. 983,346; Feb. 7; Sp. p. 186; Gaz. vol. 163; p. 33.
Burdick, Hiram B., Port Byron, N. Y. Window-lock. No. 1,009,131; Nov. 21; Sp. p. 3341; Gaz. vol. 172; p. 591.

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Burdick, James H. (See Burdick, George E. and J. H.)
Burdick, James H. (See Pelling, Frank J., assignor.)
Burdick, R. De Witt, *et al.* (See Messenger, Isaiah L., assignor.)
Burdick & Son. (See Maul, Henry C., assignor.)
Burdick, Walter A. (See Robinson, Rupert C., assignor.)
Burge, George H., Richmond, Mo. Rail-joint. No. 989,565; Apr. 18; Sp. p. 2728; Gaz. vol. 165; p. 487.
Burge, Harry. (See Macfarlane and Burge.)
Burge, William C., Greensboro, N. C. Fire-escape. No. 990,701; Apr. 25; Sp. p. 5257; Gaz. vol. 165; p. 907.
Burger, Charles A., Clark, Mo. Brace. No. 981,976; Jan. 17; Sp. p. 4045; Gaz. vol. 162; p. 675.
Burger, Georg. (See Schubert and Burger.)
Burger, Jacob D., assignor to Reiss Bros. & Co., Chicago, Ill. Pipe. No. 999,626; Aug. 1; Sp. p. 843; Gaz. vol. 169; p. 147.
Burger, Pincus, New York, N. Y. Electric-light fixture. No. 984,536; Feb. 21; Sp. p. 2798; Gaz. vol. 163; p. 500.
Burger, William A., Pierre, S. D. Wrench. No. 999,361; Aug. 1; Sp. p. 337; Gaz. vol. 169; p. 59.
Burger, William A., Pierre, S. D., assignor to H. W. Meier, Long Grove, Iowa. Miter-box. No. 982,706; Jan. 24; Sp. p. 5544; Gaz. vol. 162; p. 955.
Burger, William A., and H. W. Meier, Long Grove, Iowa. Rail plate and clamp. No. 1,003,172; Sept. 12; Sp. p. 2180; Gaz. vol. 170; p. 374.
Bürgerhausen, Wilhelm. (See Angerstein and Bürgerhausen.)
Burges, George H., and J. Curtis, London, England. Machine for making concrete blocks. No. 1,005,595; Oct. 10; Sp. p. 2267; Gaz. vol. 171; p. 390.
Burgess, Benjamin, Danville, Ill. Ice-creeper. No. 987,109; Mar. 21; Sp. p. 2812; Gaz. vol. 164; p. 518.
Burgess, Benjamin H., Charlotte, N. C., and L. Camp, Montgomery, Ala. Automatic choker-valve. No. 997,900; July 11; Sp. p. 2787; Gaz. vol. 168; p. 476.
Burgess, Charles F. (See Lorenz, Ernest H. J., assignor.)
Burgess, Edward, Brixton, assignor of one-half to P. Horsley, London, England. Vent-valve for water or other liquid carrying conduits. No. 1,009,044; Nov. 21; Sp. p. 3164; Gaz. vol. 172; p. 561.
Burgess, George, assignor of one-half to R. Long, Indianapolis, Ind. Gas-engine starter. No. 1,004,984; Oct. 3; Sp. p. 923; Gaz. vol. 171; p. 153.
Burgess, George F. (See Burgess, John W. and G. F.)
Burgess, Ira W., Minden, W. Va. Rail-bond. No. 1,006,354; Oct. 17; Sp. p. 3936; Gaz. vol. 171; p. 688.
Burgess, James C., Indianapolis, assignor to O. S. Wagner, Franklin, Ind. Coal-bucket. No. 1,003,583; Sept. 19; Sp. p. 3055; Gaz. vol. 170; p. 551.
Burgess, John J. and S. P., Rock Island, Ill. Warm-air register. No. 989,329; Apr. 11; Sp. p. 2204; Gaz. vol. 165; p. 374.
Burgess, John R., *et al.* (See Pearce, Billington, Holliwell, and Burgess.)
Burgess, John W. and G. F., Brookfield, Mo. Tire. No. 1,001,348; Aug. 22; Sp. p. 4630; Gaz. vol. 169; p. 837.
Burgess, Lysle P. (See Daniels and Burgess.)
Burgess, Neilson, deceased, Highlands; C. V. Pallister, East Orange, N. J., and G. W. Swan, Buffalo, N. Y., administrators. Device for producing illusory dramatic effects. No. 996,452; June 27; Sp. p. 5195; Gaz. vol. 167; p. 910.
Burgess, Samuel P. (See Burgess, John J. and S. P.)
Burgess, William, Hawera, New Zealand. Earmark and means of attachment. No. 1,011,911; Dec. 19; Sp. p. 3411; Gaz. vol. 173; p. 598.
Burgi, Herman, Springfield, Mass., assignor of one-half to C. H. Tenney, Hartford, Conn. Gas-retort bench. No. 1,000,987; Aug. 22; Sp. p. 3848; Gaz. vol. 169; p. 714.
Burglar Alarm Lock Co. (See Kahn, Edward C., assignor.)
Burgsmüller, Karl, Kreiensen, Germany. Apparatus for narcotizing animals and the like. No. 993,023; May 23; Sp. p. 4710; Gaz. vol. 166; p. 857.
Bürk, Richard, Schwenningen, Germany. Shifting device for calculating-machines. No. 996,307; June 27; Sp. p. 4868; Gaz. vol. 167; p. 859.
Burk, Sidney M., assignor to Improved Moulding Manufacturing Company, Philadelphia, Pa. Electric-conductor molding. No. 982,764; Jan. 24; Sp. p. 5676; Gaz. vol. 162; p. 973.
Burk, Wilford, Clermont, Iowa. Mold. No. 982,241; Jan. 24; Sp. p. 4564; Gaz. vol. 162; p. 794.
Burk, William D., Willow Grove, Pa. Flying-machine. No. 1,000,711; Aug. 15; Sp. p. 3229; Gaz. vol. 169; p. 583.
Burk, William H., and L. M. Rigby, assignors of one-third to J. Hodgkiss, Fostoria, Ohio. Liquid-fuel burner. No. 992,404; May 16; Sp. p. 3400; Gaz. vol. 166; p. 612.
Burkam, Elzey G., and R. W. E. Yardley, Columbus, Ohio. Machine for cooling stereotype-plates. No. 997,437; July 11; Sp. p. 1744; Gaz. vol. 168; p. 316.
Burkart, Oliver R., *et al.* (See Coup, Albert A., assignor.)
Burke, Edward J., New York, N. Y., assignor of one-half to J. Q. A. Whittemore, Newton, Mass. Electric-circuit controller. No. 988,440; Apr. 4; Sp. p. 321; Gaz. vol. 165; p. 53.
Burke, Edward J., New York, N. Y., assignor of one-half to J. Q. A. Whittemore, Newton, Mass. Coherer. No. 993,024; May 23; Sp. p. 4711; Gaz. vol. 166; p. 858.
Burke, Elbert S., assignor of one-half to A. D. Elsbeery, Dante, Va. Sanding device. No. 1,002,365; Sept. 5; Sp. p. 437; Gaz. vol. 170; p. 61.
Burke Electric Company. (See Burke, James, assignor.)
Burke, George H., Euclid, assignor to Burke Machinery Company, Cleveland, Ohio. Metal-saw. No. 993,150; May 23; Sp. p. 4978; Gaz. vol. 166; p. 900.
Burke, Henry, and D. James, assignors to Burke & James, Chicago, Ill. Photographic-printing apparatus. No. 989,330; Apr. 11; Sp. p. 2205; Gaz. vol. 165; p. 375.
Burke & James. (See Burke and James, assignors.)
Burke, James, Cleveland, Ohio. Anticreeping device for railway-rails. No. 1,005,410; Oct. 10; Sp. p. 1826; Gaz. vol. 171; p. 325.
Burke, James, Erie, Pa., assignor to Burke Electric Company. Dynamo-electric machine. No. 987,044; Mar. 14; Sp. p. 2690; Gaz. vol. 164; p. 466.
Burke, James J., Hartford, Conn. Automatic boiler-feed and water-level alarm. No. 1,002,219; Sept. 5; Sp. p. 54; Gaz. vol. 170; p. 6.
Burke, James W. (See Patchett and Burke.)
Burke, John F., Philadelphia, Pa. Bathing apparatus. No. 995,658; June 20; Sp. p. 3419; Gaz. vol. 167; p. 602.
Burke, Joseph H., Portland, Me. Combined relishing and boring and grooving machine. No. 985,248; Feb. 28; Sp. p. 4315; Gaz. vol. 163; p. 780.
Burke Machinery Company. (See Burke, George H., assignor.)
Burke, Thomas J., New Orelans, La. Serving device. No. 987,429; Mar. 21; Sp. p. 3523; Gaz. vol. 164; p. 630.
Burke, Thomas J., New Orleans, La. Animal-trap. No. 1,004,985; Oct. 3; Sp. p. 924; Gaz. vol. 171; p. 153.
Burke, Thomas P., Everett, Mass. Burner. No. 994,441; June 6; Sp. p. 701; Gaz. vol. 167; p. 120.
Burke, William J., Webster, Pa. Metallic tie and rail-fastener. No. 1,003,328; Sept. 12; Sp. p. 2506; Gaz. vol. 170; p. 431.
Burkett, Bruce, Burkett, Tex. Safety-valve for pneumatic tires. No. 1,004,986; Oct. 3; Sp. p. 926; Gaz. vol. 171; p. 154.
Burkett, Ira E., Macon, Ga. Excavating and loading apparatus. No. 1,000,988; Aug. 22; Sp. p. 3851; Gaz. vol. 169; p. 714.
Burkett, Sarah, administratrix. (See Burkett, Thomas.)
Burkett, Thomas, deceased, (S. Burkett, administratrix,) assignor of one-half to J. I. Zigler, Austin, Tex. Shears. No. 993,646; May 30; Sp. p. 6048; Gaz. vol. 166; p. 1099.
Burkhalter, Milo W., Kerens, Tex. Cooling device. No. 1,006,463; Oct. 24; Sp. p. 4193; Gaz. vol. 171; p. 755.
Burkhardt, Daniel, St. Louis, Mo. Cake-making machine. No. 989,831; Apr. 18; Sp. p. 3308; Gaz. vol. 165; p. 578.
Burkhart, Charles F., Buffalo, N. Y. Dressing-delivering mechanism. No. 1,009,220; Nov. 21; Sp. p. 3565; Gaz. vol. 172; p. 623.
Burkhart, George W. (See Hartman, Noble W., assignor.)
Burkhart, Harry. (See Martin, Joseph M., assignor.)
Burkholder, John H., Ashland, Ohio. Lift-jack for automobiles. No. 1,004,741; Oct. 3; Sp. p. 423; Gaz. vol. 171; p. 70.
Burkholder, John H., assignor to The Elite Manufacturing Company, Ashland, Ohio. Lifting-jack. (Reissue.) No. 13,289; Sept. 5; Sp. p. 1399; Gaz. vol. 170; p. 213.
Burkholder, John H., assignor to The Elite Manufacturing Company, Ashland, Ohio. Ratchet device for lifting-jacks. (Reissue.) No. 13,290; Sept. 5; Sp. p. 1401; Gaz. vol. 170; p. 214.
Burkland, Charles. (See Falstrem and Burkland.)
Burkle, William M., and W. C. Yeager, New Haven, Conn. Powder-divider. No. 993,436; May 30; Sp. p. 5594; Gaz. vol. 166; p. 1026.
Burleigh, Charles H. (See Lippincott, Robert E., assignor.)
Burleigh, John A., Olean, N. Y. Compound valve. No. 998,672; July 25; Sp. p. 4514; Gaz. vol. 168; p. 823.
Burleigh, John A., Olean, N. Y. Glass-bottle machine. No. 998,673; July 25; Sp. p. 4515; Gaz. vol. 168; p. 823.
Burleson, Joseph L., Upper Alton, Ill. Work-holder for grinders. No. 997,961; July 18; Sp. p. 2939; Gaz. vol. 168; p. 540.
Burley & Tyrrell Co. (See Hanke, August, assignor.)
Burlingame, E. E., *et al.* (See Curtis, Lucy C., assignor.)
Burlingame, George H., assignor to Burlingame Phillips Co., San Francisco, Cal. Cheese-case. No. 1,011,112; Dec. 5; Sp. p. 1568; Gaz. vol. 173; p. 248.
Burlingame Phillips Co. (See Burlingame, George H., assignor.)
Burlingham, William. (See Palen and Burlingham.)
Burmah Oil Company, The. (See Campbell, Andrew, assignor.)
Burn, Mabel, Beaufort, S. C. Coin-holder. No. 1,010,346; Nov. 28; Sp. p. 5908; Gaz. vol. 172; p. 1052.
Burnam, James, Peytontown, Ky. Railway-tie. No. 989,331; Apr. 11; Sp. p. 2208; Gaz. vol. 165; p. 375.
Burnap, James M., assignor of one-half to M. Z. Walsh and one-sixth to B. Way, Freeport, Pa. Pasteurizer. No. 985,139; Feb. 28; Sp. p. 4033; Gaz. vol. 163; p. 742.

Alphabetical list of patentees—Continued.

Burnes, James F., Franklin, Pa. Drill-rod grab or slip-socket. No. 980,920; Jan. 10; Sp. p. 1649; Gaz. vol. 162; p. 285.
Burnett, Charles E., North Rose, N. Y. Scale attachment for supporting wagon-beds. No. 993,647; May 30; Sp. p. 6049; Gaz. vol. 166; p. 1099.
Burnett, George W., West Cliffe, Colo. Hat-pin protector. No. 1,005,411; Oct. 10; Sp. p. 1827; Gaz. vol. 171; p. 325.
Burnett, Ira A., Chicago, Ill. Dental impression-cup. No. 984,796; Feb. 21; Sp. p. 3356; Gaz. vol. 163; p. 592.
Burnett, Sidney R., Body Camp, Va. Vehicle-brake. No. 1,008,782; Nov. 14; Sp. p. 2611; Gaz. vol. 172; p. 438.
Burnett, William E., Ilion, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,010,852; Dec. 5; Sp. p. 1017; Gaz. vol. 173; p. 158.
Burnett, William F., Heisson, Wash. Can-cover. No. 1,000,373; Aug. 15; Sp. p. 2475; Gaz. vol. 169; p. 463.
Burnett, William W., Pelham, Ga. Gun-shot attachment. No. 991,945; May 9; Sp. p. 2381; Gaz. vol. 166; p. 423.
Burnette, William A., Glen Ridge, N. J. Indestructible galley. No. 1,009,045; Nov. 21; Sp. p. 3166; Gaz. vol. 172; p. 561.
Burnham, Arthur M., Gardiner, Me., assignor to National Specialty Company, Washington, D. C. Washing-machine. No. 991,946; May 9; Sp. p. 2382; Gaz. vol. 166; p. 423.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Boston, Mass. Electric switch. No. 980,863; Jan. 3; Sp. p. 1469; Gaz. vol. 162; p. 235.
Burnham, George A., Essex, assignor to S. B. Condit, Jr., Boston, Mass. Automatic voltage-regulator. No. 985,109; Feb. 21; Sp. p. 3943; Gaz. vol. 163; p. 697.
Burnham, George A., Essex, assignor to S. B. Condit, Jr., Boston, Mass. Automatic voltage-regulator. No. 988,441; Apr. 4; Sp. p. 327; Gaz. vol. 165; p. 53.
Burnham, George A., Cliftondale, assignor to S. B. Condit, Jr., Boston, Mass. Automatic voltage-regulator. No. 988,442; Apr. 4; Sp. p. 330; Gaz. vol. 165; p. 53.
Burnham, Ira F., Stoughton, assignor to Stoughton Rubber Company, Boston, Mass. Rubber-covered roll. No. 996,970; July 4; Sp. p. 778; Gaz. vol. 168; p. 127.
Burnham, John A., Jr., Boston, assignor to Barbour-Stockwell Co., Cambridgeport, Mass. Gas-engine. No. 993,291; May 23; Sp. p. 5256; Gaz. vol. 166; p. 943.
Burnham, Joseph L. (See Erben and Burnham.)
Burnham, Joseph L., Schenectady, N. Y., assignor to General Electric Company. Rotary converter. No. 981,059; Jan. 10; Sp. p. 2035; Gaz. vol. 162; p. 335.
Burnham, Joseph L., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,000,776; Aug. 15; Sp. p. 3380; Gaz. vol. 169; p. 607.
Burnham, Orie C., Portland, Oreg. Crosscut-saw set. No. 1,005,688; Oct. 10; Sp. p. 2464; Gaz. vol. 171; p. 423.
Burnham, Samuel, Rochester, N. Y. Heel for boots and shoes. No. 983,679; Feb. 7; Sp. p. 920; Gaz. vol. 163; p. 145.
Burnop, Esther A., administratrix. (See Burnop, William A.)
Burnop, William A., deceased, Deerfield; E. A. Burnop, administratrix, assignor of one-half to G. H. Spitzli, Utica, N. Y. Computing and registering mechanism. No. 1,004,682; Oct. 3; Sp. p. 277; Gaz. vol. 170; p. 48.
Burns, Arthur H., Penn Yan, N. Y. Automobile-starter. No. 998,836; July 25; Sp. p. 4894; Gaz. vol. 168; p. 881.
Burns and Bassick Company. (See Bassick and Barnard, assignors.)
Burns, Bertie K., Lineville, Iowa. Self-leveling table. No. 990,631; Apr. 25; Sp. p. 5072; Gaz. vol. 165; p. 884.
Burns, David M., Savannah, and W. B. Shriver, Ashland, Ohio. Anchor for wire fences. No. 994,906; June 13; Sp. p. 1803; Gaz. vol. 167; p. 317.
Burns, Edward J., Chicago, Ill. Gas-pressure regulator. No. 1,011,572; Dec. 12; Sp. p. 2662; Gaz. vol. 173; p. 447.
Burns, Emeline S., St. Louis, Mo. Collapsible drinking-cup. No. 1,010,581; Dec. 5; Sp. p. 404; Gaz. vol. 173; p. 64.
Burns, George J., Youngstown, Ohio. Guard attachment for trolleys. No. 998,674; July 25; Sp. p. 4518; Gaz. vol. 168; p. 824.
Burns, Harvey, Lebanon, Ohio. Starting device for engines. No. 993,956; May 30; Sp. p. 6691; Gaz. vol. 166; p. 1204.
Burns, Herbert A., Oakland, assignor to Diamond Electric Water Heater Co., San Francisco, Cal. Electric water-heater. No. 981,244; Jan. 10; Sp. p. 2466; Gaz. vol. 162; p. 400.
Burns, James H., Troy, N. Y. Floral-display stand. No. 1,012,242; Dec. 19; Sp. p. 4158; Gaz. vol. 173; p. 713.
Burns, James J. (See Gifford, Burns, and Bishop.)
Burns, Jerry C., Muskogee, Okla. Tie-remover. No. 1,003,399; Sept. 12; Sp. p. 2636; Gaz. vol. 170; p. 453.
Burns, John, Los Angeles, Cal. Parachute. No. 996,058; June 27; Sp. p. 4274; Gaz. vol. 167; p 776.
Burns, P. C., *et al* (See Leich, Oscar M., assignor.)
Burns, Peter C., assignor to The American Electric Telephone Company, Chicago, Ill. Telephone desk set. No. 1,011,405; Dec. 12; Sp. p. 2255; Gaz. vol. 173; p. 385.
Burns, Peter S., Milton, assignor to Milton Chemical Company, Boston, Mass. Cleaning and polishing apparatus. No. 991,131; May 2; Sp. p. 641; Gaz. vol. 166; p. 110.
Burns, Robert J., Hewitt, Okla. Concrete culvert. No. 995,659; June 20; Sp. p. 3422; Gaz. vol. 167; p. 603.
Burns, Robert W. (See Burns, William M. and R. W.)
Burns, William M., Concordia, and R. W. Burns, Cherryvale, Kans. Oil-burner. No. 1,008,783; Nov. 14; Sp. p. 2613; Gaz. vol. 172; p. 439.
Burow, William. (See Saeger and Burow.)
Burr, David E. (See Hofman, Bucklin, and Burr.)
Burr, Edgar, Reno, Nev. Turn-table. No. 1,004,143; Sept. 26; Sp. p. 4357; Gaz. vol. 170; p. 772.
Burr, Ellis M., Champaign, Ill. Discus. No. 1,006,628; Oct. 24; Sp. p. 4576; Gaz. vol. 171; p. 816.
Burr, Harry T., Bangor, Me. Combined snow-plow and rut-cutter. No. 1,005,689; Oct. 10; Sp. p. 2467; Gaz. vol. 171; p. 423.
Burrage, Guy H., U. S. Navy. Course and distance finder. No. 982,793; Jan. 31; Sp. p. 5742; Gaz. vol. 162; p. 1012.
Burrell, Delavan V., Rocky Ford, Colo. Centrifugal pump. No. 1,007,266; Oct. 31; Sp. p. 5983; Gaz. vol. 171; p. 1092.
Burrell, Edmund R. (See Strange, Edward H., assignor.)
Burress, Charles G., Hymera, Ind. Rail-joint. No. 1,000,233; Aug. 8; Sp. p. 2159; Gaz. vol. 169; p. 384.
Burrichter, William C., Panora, Iowa. Disinfecting-cabinet. No. 992,639; May 16; Sp. p. 3887; Gaz. vol. 166; p. 693.
Burright, Charles L. (See Rates and Burright.)
Burriss, John T. and O. G., Anderson, S. C. Flat-lock tin shingle. No. 1,011,153; Dec. 12; Sp. p. 1691; Gaz. vol. 173; p. 298.
Burriss, Oliver G. (See Burriss, John T. and O. G.)
Burroughes, James S., Seaford, England. Billiard-table cushion. No. 986,543; Mar. 14; Sp. p. 1675; Gaz. vol. 164; p. 297.
Burroughs Adding Machine Company. (See Fisher and Vincent, assignors.)
Burroughs Adding Machine Company. (See Harrison, John P., Jr., assignor.)
Burroughs Adding Machine Company. (See Kilpatrick, William J., assignor.)
Burroughs Adding Machine Company. (See Landis, Abb L., assignor.)
Burroughs Adding Machine Company. (See Pike, William H., Jr., assignor.)
Burroughs Adding Machine Company. (See Putnam, George B., assignor.)
Burroughs Adding Machine Company. (See Vincent, Jesse G., assignor.)
Burroughs Adding Machine Company. (See Wales, Charles, assignor.)
Burroughs, Joseph B., Oberlin, Ohio. Shock-absorber for vehicles. No. 1,007,917; Nov. 7; Sp. p. 619; Gaz. vol. 172; p. 95.
Burrow, Ezekiel V., Madison, Ala. Trace-lock. No. 990,104; Apr. 18; Sp. p. 3869; Gaz. vol. 165; p. 668.
Burrowes, Edward T., Portland, Me. Wind-shield for motor-vehicles. No. 985,883; Mar. 7; Sp. p. 261; Gaz. vol. 164; p. 43.
Burrowes, Frank M., Portland, Me. Toy building-blocks. No. 1,009,468; Nov. 21; Sp. p. 4124; Gaz. vol. 172; p. 712.
Burrowes, Frank M., Portland, Me. Toy building-blocks. No. 1,009,469; Nov. 21; Sp. p. 4125; Gaz. vol. 172; p. 712.
Burrowes, Frank M., assignor to The E. T. Burrowes Company, Portland, Me. Game-board. No. 1,005,151; Oct. 10; Sp. p. 1233; Gaz. vol. 171; p. 230.
Burrows, Hubert G., Orcutt, Cal. Refining oil. No. 998,837; July 25; Sp. p. 4895; Gaz. vol. 168; p. 881.
Burrows, Irving L., Clifton Park, N. J. Drill-case. No. 992,336; May 16; Sp. p. 3259; Gaz. vol. 166; p. 588.
Burrows, John R., Wilmington, Del. Pivot for deck-sashes. No. 1,012,324; Dec. 19; Sp. p. 4321; Gaz. vol. 173; p. 742.
Burrows, Marshel B., Haynes, W. Va. Ice-cutter. No. 999,091; July 25; Sp. p. 5460; Gaz. vol. 168; p. 971.
Burrows, William J., assignor to Daisy Manufacturing Company, Plymouth, Mich. Air-gun. No. 984,072; Feb. 14; Sp. p. 1789; Gaz. vol. 163; p. 308.
Burrows, William R., Newark, N. J., assignor to General Electric Company. Filament-mounting machine. No. 989,549; Apr. 11; Sp. p. 2680; Gaz. vol. 165; p. 450.
Burrus, Albert P., Prescott, Ark. Vehicle-tire. No. 989,332; Apr. 11; Sp. p. 2209; Gaz. vol. 165; p. 375.
Bursky, Peter. (See Rozboril and Bursky.)
Burson Manufacturing Company. (See Rolston, Walter F., assignor.)
Burson, Wilson W., Rockford, Ill. Knitting-machine pattern mechanism. No. 996,059; June 27; Sp. p. 4276; Gaz. vol. 167; p. 776.
Burt, D. Arthur, *et al.* (See Todd, Charles W., assignor.)
Burt, Edward W., Brookline, Mass. Therapeutic shoe. No. 984,506; Feb. 14; Sp. p. 2703; Gaz. vol. 163; p. 453.
Burt, Lander B., Hallock, Minn. Flue-cutting device. No. 982,932; Jan. 31; Sp. p. 6053; Gaz. vol. 162; p. 1059.
Burt, Leander B., Minetto, N. Y. Plow. No. 1,001,616; Aug. 29; Sp. p. 5158; Gaz. vol. 169; p. 956.

Alphabetical list of patentees—Continued.

Burt Machine Company. (See Wild, Frederick W., Jr., assignor.)
Burt, Townsend W., Hempstead, N. Y. Tire-applying tool. No. 1,003,030; Sept. 12; Sp. p. 1897; Gaz. vol. 170; p. 324.
Burt, William H., assignor to Waterbury Mfg. Co., Waterbury, Conn. Shade-holder for incandescent electric lamps. No. 998,071; July 18; Sp. p. 3188; Gaz. vol. 168; p. 578.
Burt, William H., assignor to Waterbury Mfg. Co., Waterbury, Conn. Whistle. No. 1,002,493; Sept. 5; Sp. p. 704; Gaz. vol. 170; p. 103.
Burthe, Marie A., University, Va. Toy. No. 1,000,777; Aug. 15; Sp. p. 3383; Gaz. vol. 169; p. 608.
Burtis, Charles F., Toronto, Ontario, Canada. Apparatus for a parlor game. No. 985,004; Feb. 21; Sp. p. 3739; Gaz. vol. 163; p. 660.
Burton, Alva, Columbine, Colo. Swath-rod attachment for mowing-machines. No. 980,195; Jan. 3; Sp. p. 32; Gaz. vol. 162; p. 8.
Burton, Arthur, Whitesboro, Tex. Burner. No. 1,003,329; Sept. 12; Sp. p. 2507; Gaz. vol. 170; p. 431.
Burton, Charles F., *et al.* (See Porter, Joseph Y., assignor.)
Burton, Charles F., Detroit, Mich. Umbrella. No. 990,632; Apr. 25; Sp. p. 5073; Gaz. vol. 165; p. 884.
Burton, Charles M., New York, N. Y. Shock-absorber. No. 986,904; Mar. 14; Sp. p. 2441; Gaz. vol. 164; p. 421.
Burton, Charles M., and R. Gardner, New York, N. Y. Engine-starting device. No. 996,060; June 27; Sp. p. 4278; Gaz. vol. 167; p. 777.
Burton, Charles S., Oak Park, Ill., assignor to E. Tyden, Hastings, Mich. Extension-table. No. 981,163; Jan. 10; Sp. p. 2248; Gaz. vol. 162; p. 372.
Burton, Charles S., Oak Park, Ill., assignor to E. Tyden, Hastings, Mich. Extension-table lock. No. 994,907; June 13; Sp. p. 1804; Gaz. vol. 167; p. 318.
Burton, Donald I., Asbury Park, N. J. Safety robe-rack. No. 992,940; May 23; Sp. p. 4535; Gaz. vol. 166; p. 829.
Burton, George D., Boston, Mass. Preparing fibrous materials for the manufacture of paper. No. 982,170; Jan. 17; Sp. p. 4412; Gaz. vol. 162; p. 739.
Burton, George W., assignor of one-third to V. V. Warwick and one-third to D. O. Patton, Austin, Tex. Cotton-chopper. No. 987,855; Mar. 28; Sp. p. 4424; Gaz. vol. 164; p. 805.
Burton, James E., Whitewater, Wis. Drag attachment for plows. No. 987,856; Mar. 28; Sp. p. 4427; Gaz. vol. 164; p. 805.
Burton, James E., Whitewater, Wis. Drag attachment for plows. No. 998,838; July 25; Sp. p. 4897; Gaz. vol. 168; p. 881.
Burton, James M., Long Island City, assignor to Neptune Meter Company, New York, N. Y. Turbine for water-meters. No. 983,535; Feb. 7; Sp. p. 587; Gaz. vol. 163; p. 95.
Burton, James M., Long Island City, assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 1,001,578; Aug. 22; Sp. p. 5062; Gaz. vol. 169; p. 912.
Burton, James N., Atlanta, Ga. Cotton-chopper. No. 1,011,738; Dec. 12; Sp. p. 3018; Gaz. vol. 173; p. 503.
Burton, John A., and B. A. Blakemore, Staunton, Va. Checking and unchecking device. No. 1,011,912; Dec. 19; Sp. p. 3412; Gaz. vol. 173; p. 598.
Burton, Judson L., Sibleyton, Miss. Cultivator. No. 996,562; June 27; Sp. p. 5401; Gaz. vol. 167; p. 945.
Burton, Sylvester, Waterman, Wash. Stump-puller. No. 997,901; July 11; Sp. p. 2790; Gaz. vol. 168; p. 477.
Burton, Walter, Nottingham, assignor to S. C. Smith, Hoveringham, England. Disinfecting apparatus. No. 1,012,981; Dec. 26; Sp. p. 5766; Gaz. vol. 173; p. 1010.
Burton, Walter C., Fort Worth, Tex. Cotton-chopper. No. 1,002,494; Sept. 5; Sp. p. 705; Gaz. vol. 170; p. 103.
Burwell, Nicholas E., Hackensack, N. J. Car-fender. No. 1,011,406; Dec. 12; Sp. p. 2258; Gaz. vol. 173; p. 385.
Burwell, Spotswood, Jr., Kittrell, N. C. Single-horse-plow fertilizer attachment. No. 989,114; Apr. 11; Sp. p. 1726; Gaz. vol. 165; p. 301.
Bury, James H. (See McKay, Frederick S., assignor.)
Buryanek, Frank, assignor to Herhold Chair Company, Chicago, Ill. Machine for turning chair-bottoms. No. 988,756; Apr. 4; Sp. p. 1006; Gaz. vol. 165; p. 159.
Busald, Frank M., Pittsburg, Pa. Machine for making double-faced corrugated paper-board. No. 999,627; Aug. 1; Sp. p. 844; Gaz. vol. 169; p. 148.
Busat, Gustav, San Francisco, Cal. Fire-escape. No. 991,768; May 9; Sp. p. 2008; Gaz. vol. 166; p. 361.
Busbea, Albert G., Brundidge, assignor of one-half to Doss, Thompson Co., Beebe, Ark. Nut-lock. No. 994,244; June 6; Sp. p. 298; Gaz. vol. 167; p. 51.
Busby, Alvin C., and W. H. Hedden, Ellensburg, Wash. Centrifugal machine. No. 1,000,491; Aug. 15; Sp. p. 2733; Gaz. vol. 169; p. 505.
Busby, Francis M., Tulare, Cal. Hen's nest. No. 988,443; Apr. 4; Sp. p. 333; Gaz. vol. 165; p. 54.
Busby, Harley S., Washington, Iowa. Non-side-draft plow-hitch. No. 987,045; Mar. 14; Sp. p. 2700; Gaz. vol. 164; p. 466.
Busby, Nahum J., Boston, Mass. Tire-tread. No. 993,222; May 23; Sp. p. 5120; Gaz. vol. 166; p. 923.
Busby, William E., McAlester, Okla. Amalgamator. No. 988,288; Mar. 28; Sp. p. 5374; Gaz. vol. 164; p. 950.
Busch, Adolf, Riga, Russia. Fire protecting and signaling apparatus. No. 987,669; Mar. 21; Sp. p. 4005; Gaz. vol. 164; p. 713.
Busch, Conrad W. (See Fulton and Busch.)
Busch, Franz, Duisburg, Germany. Handcuff. No. 982,933; Jan. 31; Sp. p. 6055; Gaz. vol. 162; p. 1059.
Busch, George W., Florence, Mass. Oil-burner. No. 1,003,700; Sept. 19; Sp. p. 3309; Gaz. vol. 170; p. 592.
Busch, Paul F., Cleveland, Ohio. Grain-door for cars. No. 1,009,046; Nov. 21; Sp. p. 3167; Gaz. vol. 172; p. 562.
Buscher, Hermann, Langerfeld, near Barmen, Germany. Braiding-machine. No. 1,011,913; Dec. 19; Sp. p. 3414; Gaz. vol. 173; p. 598.
Buschman, Edward L. (See Depew, Lewis, assignor.)
Buschman, Edward L., East Orange, N. J. Automatic bag filling and weighing machine. No. 984,537; Feb. 21; Sp. p. 2799; Gaz. vol. 163; p. 500.
Buschman, Edward L., East Orange, N. J. Automatic bag filling and weighing machine. No. 993,751; May 30; Sp. p. 6297; Gaz. vol. 166; p. 1136.
Buschmann, Harry C., assignor to The Jenne Acetylene Gas Machine Company, Indianapolis, Ind. Carbid-indicator for acetylene-generators. No. 1,006,826; Oct. 24; Sp. p. 5002; Gaz. vol. 171; p. 885.
Buschmann, Theodor E., Chemnitz, assignor to Wanderer Werke vorm. Winkelhofer & Jaenicke A. G., Schönau, near Chemnitz, Germany. Paper-carriage feed mechanism for type-writers. No. 984,073; Feb. 14; Sp. p. 1791; Gaz. vol. 163; p. 308.
Buschmann, Theodor E., Chemnitz, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke, A. G., Schonau, near Chemnitz, Germany. Ball and roller clutch. No. 993,025; May 23; Sp. p. 4714; Gaz. vol. 166; p. 858.
Buschmann, Theodor E., Chemnitz, assignor to The Firm of Wanderer Werke vorm. Winklhofer & Jaenicke A. G., Schönau, near Chemnitz, Germany. Paper-carriage-feed mechanism of type-writers. No. 994,973; June 13; Sp. p. 1934; Gaz. vol. 167; p. 340.
Buschor, John J., assignor of one-half to W. P. Shuttleworth, Muncie, Ind. Journal-support. No. 983,347; Feb. 7; Sp. p. 187; Gaz. vol. 163; p. 33.
Busell, John N., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Feather-edging machine. No. 1,003,981; Sept. 26; Sp. p. 3934; Gaz. vol. 170; p. 714.
Busenbenz, Jacob J., assignor to Differential Power Clock Company, Chicago, Ill. Clock. No. 1,012,243; Dec. 19; Sp. p. 4160; Gaz. vol. 173; p. 714.
Buser, Samuel. (See Spellmon, William H., assignor.)
Büsgen, Carl, deceased; W. Büsgen, executor, Vallendar, Germany. Seat or stool for cigar makers and twisters. No. 990,702; Apr. 25; Sp. p. 5258; Gaz. vol. 165; p. 907.
Büsgen, Wilhelm, executor. (See Büsgen, Carl.)
Bush, Carl, Seattle, Wash. Screw-driver. No. 980,595; Jan. 3; Sp. p. 904; Gaz. vol. 162; p. 146.
Bush, Charles, assignor of one-half to R. Lamont, Toronto, Ontario, Canada. Printing-ink retainer. No. 1,007,525; Oct. 31; Sp. p. 6536; Gaz. vol. 171; p. 1182.
Bush, Frank H., London, England. Tobacco-pipe. No. 986,436; Mar. 14; Sp. p. 1441; Gaz. vol. 164; p. 260.
Bush, Frank H., London, England. Indicator for showing the time of adjustment of barometers. No. 998,230; July 18; Sp. p. 3545; Gaz. vol. 168; p. 635.
Bush, Hazel B., Littleton, Colo. Fire-alarm system. No. 988,171; Mar. 28; Sp. p. 5137; Gaz. vol. 164; p. 911.
Bush, Le Grand C., Chicago, Ill., and J. F. Cole, Elkhart, Ind., assignors of one-third to W. J. Muller, Aurora, Ill. Recording door-lock. No. 981,164; Jan. 10; Sp. p. 2250; Gaz. vol. 162; p. 372.
Bush, Oscar, assignor of one-half to E. P. Ilten, Grand Forks, N. D. Calcimining compound. No. 993,752; May 30; Sp. p. 6301; Gaz. vol. 166; p. 1136.
Bush, Samuel P., Columbus, Ohio. Car-truck. No. 991,697; May 9; Sp. p. 1888; Gaz. vol. 166; p. 341.
Bush, Samuel P., Columbus, Ohio. Antifriction center-bearing. No. 994,373; June 6; Sp. p. 569; Gaz. vol. 167; p. 97.
Bush, William H., Columbus, Ohio. Making fabrics and threads therefor. No. 990,836; May 2; Sp. p. 19; Gaz. vol. 166; p. 6.
Bush, William J. (See Carpenter, John B., assignor.)
Bushbaum, Lambert T., Toledo, Ohio. Ornamental holder for insect-poisons. No. 992,108; May 9; Sp. p. 2674; Gaz. vol. 166; p. 476.
Bushey, Eli J., New York, N. Y. Removable rim. No. 994,974; June 13; Sp. p. 1937; Gaz. vol. 167; p. 340.
Bushnell, John B., Minneapolis, Minn. Dumping-rack. No. 994,718; June 13; Sp. p. 1344; Gaz. vol. 167; p. 252.
Business Men's Paper Press Company. (See Woodard, George F., assignor.)
Buskard, Samuel G., Hamilton, Ontario, Canada. Pressing-machine for tailors. No. 1,009,955; Nov. 28; Sp. p. 5106; Gaz. vol. 172; p. 921.
Buskirk, Mulford D., Paw Paw, Mich. Sprayer. No. 996,611; July 4; Sp. p. 24; Gaz vol. 168; p. 7.
Busse, Amand, New York, N. Y. Metal frame for glass panes. No. 1,001,502; Aug. 22; Sp. p 4909; Gaz. vol. 169; p. 887.

Alphabetical list of patentees—Continued.

Busse, Arthur, Charlottenburg, Germany. Rail-joint. No. 1,010,411; Dec. 5; Sp. p. 12; Gaz. vol. 173; p. 4.
Busse, Carter F., Chamois, Mo. Concrete cement post. No. 1,006,718; Oct. 24; Sp. p. 4741; Gaz. vol. 171; p. 845.
Busse, Oscar, San Francisco, Cal. Lithography. No. 1,007,846; Nov. 7; Sp. p. 466; Gaz. vol. 172; p. 69.
Bussert, George W. (See Ridinger, Daniel W., assignor.)
Bustamante (h), Miguel, Mexico, Mexico. Automatic mapping-machine. No. 986,437; Mar. 14; Sp. p. 1441; Gaz. vol. 164; p. 260.
Bustanoby, Jacques, New York, N. Y. Vehicle-wheel. No. 1,009,720; Nov. 28; Sp. p. 4630; Gaz. vol. 172; p. 841.
Buster Quick Mill Company. (See Quick, Harry C., assignor.)
Butchart, William A., Los Angeles, Cal. Concentrator. No. 997,235; July 4; Sp. p. 1340; Gaz. vol. 168; p. 219.
Butchart, William A., Los Angeles, Cal. Concentrator. No. 1,000,579; Aug. 15; Sp. p. 2940; Gaz. vol. 169; p. 538.
Butcher, James M., St. Louis, Mo., assignor to E. T. Rainey, Thompsonville, Ill. Detonating burglar-alarm. No. 1,003,701; Sept. 19; Sp. p. 3311; Gaz. vol. 170; p. 593.
Butcher, James M., assignor of three-fourths to E. J. Feiner, St. Louis, Mo. Pencil-sharpener. No. 1,010,853; Dec. 5; Sp. p. 1019; Gaz. vol. 173; p. 158.
Butcher, John S., Vineland, assignor of one-half to E. F. Somers, Rosenhayn, N. J. Railway-tie. No. 980,758; Jan. 3; Sp. p. 1240; Gaz. vol. 162; p. 199.
Butcher, McClure. (See Dowins, Richard G., assignor.)
Butcher, Wilfred H., Burwell, Nebr. Water-boiler. No. 983,680; Feb. 7; Sp. p. 922; Gaz. vol. 163; p. 146.
Butkus, Joseph. (See Ladwig and Butkus.)
Butler, Archie, St. Kilda, Victoria, assignor of one-half to P. Rohs, Melbourne, Australia. Distributer for seed and fertilizer. No. 999,151; July 25; Sp. p. 5562; Gaz. vol. 168; p. 989.
Butler, Charles A., Bartlesville, Okla. Cable-clamp. No. 999,006; July 25; Sp. p. 5287; Gaz. vol. 168; p. 941.
Butler, Charles E. (See Butler and Abbott.)
Butler, David H., assignor to The Inlaid Company, Providence, R. I. Barrette. No. 985,110; Feb. 21; Sp. p. 3946; Gaz. vol. 163; p. 697.
Butler, F. E., *et al.* (See Curtis, Lucy C., assignor.)
Butler, Fabius M., David City, Nebr. Speed-limit-signaling apparatus. No. 1,010,412; Dec. 5; Sp. p. 13; Gaz. vol. 173; p. 5.
Butler, George R., San Francisco, Cal. Manufacture of pictures. No. 1,000,323; Aug. 8; Sp. p. 2339; Gaz. vol. 169; p. 414.
Butler, Henry E., Schenectady, N. Y. Adjustable pillow-support. No. 1,003,982; Sept. 26; Sp. p. 3939; Gaz. vol. 170; p. 715.
Butler, Henry G., Kenosha, Wis. Excavator-shovel. No. 987,612; Mar. 21; Sp. p. 3881; Gaz. vol. 164; p. 691.
Butler, Henry J., Maple Park, Ill. Target-trap-operating mechanism. No. 990,333; Apr. 25; Sp. p. 4407; Gaz. vol. 165; p. 780.
Butler, James A., Winthrop, Mass. Keir. No. 988,971; Apr. 11; Sp. p. 1421; Gaz. vol. 165; p. 252.
Butler, James A., Winthrop, Mass. Apparatus for treating cloth. No. 994,245; June 6; Sp. p. 299; Gaz. vol. 167; p. 51.
Butler, James D. and C. E., and J. A. Abbott, Omaha, Nebr. Ice-cream freezer. No. 981,060; Jan. 10; Sp. p. 2038; Gaz. vol. 162; p. 335.
Butler, James L., Alliance, Ohio. Bucket. No. 989,832; Apr. 18; Sp. p. 3310; Gaz. vol. 165; p. 578.
Butler, James L., assignor to The American Tire & Rubber Company, Akron, Ohio. Tire-tool. No. 1,007,640; Oct. 31; Sp. p. 6788; Gaz. vol. 171; p. 1220.
Butler, James L. Akron, and N. Slee, Barberton, Ohio, assignors to The Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. No. 981,377; Jan. 10; Sp. p. 2747; Gaz. vol. 162; p. 446.
Butler, James T., Reynoldsville, Pa. Rail-joint connector and support. No. 1,007,061; Oct. 31; Sp. p. 5510; Gaz. vol. 171; p. 1017.
Butler, James W., Lynn, Mass. Abrading-machine. No. 1,011,573; Dec. 12; Sp. p. 2663; Gaz. vol. 173; p. 447.
Butler, Otto, Pittsburg, Kans. Car-door hanger. No. 1,009,221; Nov. 21; Sp. p. 3571; Gaz. vol. 172; p. 623.
Butler, Paul, Lowell, Mass. Winding mechanism. No. 998,231; July 18; Sp. p. 3546; Gaz. vol. 168; p. 636.
Butler, Pierce, Louisville, Ky. Combined toy table and playhouse. No. 992,337; May 16; Sp. p. 3260; Gaz. vol. 166; p. 588.
Butler, William C., and A. L. Eaton, Sistersville, W. Va. Rope-socket for oil-wells. No. 991,196; May 2; Sp. p. 788; Gaz. vol. 166; p. 133.
Butler, William E., David City, Nebr. Dental motor. No. 984,507; Feb. 14; Sp. p. 2705; Gaz. vol. 163; p. 454.
Butler, William E., David City, Nebr. Lightning-arrester. No. 1,007,770; Nov. 7; Sp. p. 261; Gaz. vol. 172; p. 42.
Butler, William J., Auckland, New Zealand. Sewing-machine. No. 984,074; Feb. 14; Sp. p. 1795; Gaz. vol. 163; p. 309.
Butler, Wilson W., *et al.* (See Murray, Charles F., assignor.)
Butman, Thomas R., Lake Bluff, Ill. Steam-boiler furnace. No. 989,333; Apr. 11; Sp. p. 2209; Gaz. vol. 165; p. 375.
Butner, William R., Topaz, Cal. Milk-pail cover. No. 1,009,646; Nov. 21; Sp. p. 4459; Gaz. vol. 172; p. 769.
Butsch, Alphonse, St. Lucia, British West Indies. Internal-combustion engine. No. 998,463; July 18; Sp. p. 4050; Gaz. vol. 168; p. 718.
Butsch, Jacob, Lynnville, Ind. Device for removing keys from shafting and pulleys. No. 986,133; Mar. 7; Sp. p. 787; Gaz. vol. 164; p. 127.
Butschko, August, Hoboken, N. J. Horseshoe. No. 985,249; Feb. 28; Sp. p. 4318; Gaz. vol. 163; p. 780.
Butt, Henry J., Bell, N. Mex. Running-gear for hay-presses. No. 988,172; Mar. 28; Sp. p. 5139; Gaz. vol. 164; p. 912.
Butterfield, Charles, Nottingham, England. Selecting mechanism. No. 984,417; Feb. 14; Sp. p. 2503; Gaz. vol. 163; p. 424.
Butterfield, Charles, Nottingham, England. Printing-machine. No. 1,009,647; Nov. 21; Sp. p. 4460; Gaz. vol. 172; p. 769.
Butterfield, Charles W., Bellows Falls, Vt. Machine for facilitating the sealing of package-cases. No. 996,563; June 27; Sp. p. 5402; Gaz. vol. 167; p. 945.
Butterfield, Garrett S., Sault Ste. Marie, Ontario, Canada. Collar-stud. No. 982,124; Jan. 17; Sp. p. 4340; Gaz. vol. 162; p. 724.
Butterfield, John S. (See Bradshaw, Ira J., assignor.)
Butterfield Live Stock Company *et al.* (See Ross, John A., assignor.)
Butterfield, William, Dublin, Ireland. Tire for the wheels of automobiles and other vehicles. No. 1,010,230; Nov. 28; Sp. p. 5666; Gaz. vol. 172; p. 1014.
Buttlar, Rudolph W. E., Columbus, Ohio. Hollow fireproof partition sliding door for fire-walls. No. 983,681; Feb. 7; Sp. p. 923; Gaz. vol. 163; p. 146.
Buttler, William, Indianapolis, Ind. Apparatus for forming shapes of glassware. No. 996,398; June 27; Sp. p. 5065; Gaz. vol. 167; p. 892.
Buttman, Alonzo C. (See Gable and Buttman.)
Button, Charles R., Nelson, British Columbia, Canada. Ink-well. No. 1,011,882; Dec. 12; Sp. p. 3324; Gaz. vol. 173; p. 552.
Button, Hedley, Trevallyn, Tasmania, Australia. Roof or wall covering. No. 985,140; Feb. 28; Sp. p. 4035; Gaz. vol. 163; p. 742.
Button, Robert C., Centralia, Wash. Tank for shower-baths. No. 1,011,113; Dec. 5; Sp. p. 1570; Gaz. vol. 173; p. 249.
Button, Robert C., Centralia, Wash. Bath-mat. No. 1,011,114; Dec. 5; Sp. p. 1571; Gaz. vol. 173; p. 249.
Button, Robert C., Centralia, Wash. Bath-brush. No. 1,011,115; Dec. 5; Sp. p. 1572; Gaz. vol. 173; p. 249.
Buttonholes, Incorporated. (See Seward, Robert B., assignor.)
Buttonholes, Incorporated. (See Turck, Joseph A., assignor.)
Buttrill, David B., Fort Worth, Tex. Combined scraper and fender attachment. No. 989,833; Apr. 18; Sp. p. 3312; Gaz. vol. 165; p. 578.
Butts, Thompson R., Modesto, Cal. Water-meter. No. 1,008,446; Nov. 14; Sp. p. 1854; Gaz. vol. 172; p. 319.
Buttweiler, John R., assignor of one-half to H. Schoener, Freeport, Minn. Disk-sharpener. No. 1,008,695; Nov. 14; Sp. p. 2413; Gaz. vol. 172; p. 408.
Butz, Walter D., assignor to Wildman Manufacturing Company, Norristown, Pa. Rib-knitting machine. No. 1,012,982; Dec. 26; Sp. p. 5767; Gaz. vol. 173; p. 1010.
Butzel, Henry M. (See Delaney and Selby, assignors.)
Buxbaum, Emanuel L., Chicago, Ill. Telephone lock and call-register. No. 989,761; Apr. 18; Sp. p. 3141; Gaz. vol. 165; p. 552.
Buxbaum, Emanuel L., Chicago, Ill. System for registering calls and locking telephones. No. 989,762; Apr. 18; Sp. p. 3144; Gaz. vol. 165; p. 553.
Buxbaum, Emanuel L., Chicago, Ill. System for registering telephone-calls. No. 989,763; Apr. 18; Sp. p. 3148; Gaz. vol. 165; p. 553.
Buys, Henry D., Emmett, Idaho. Miner's candlestick. No. 996,308; June 27; Sp. p. 4869; Gaz. vol. 167; p. 859.
Buzenac, Alexandre. (See Mallett, Clarence T., assignor.)
Buzzell, Lewis H. (See Eshbaugh, Albert R., assignor.)
Byam, Ruth E. (See Martin, Charles H., assignor.)
Byars, W. R. (See Sage, George W., assignor.)
Byers, Charles H., Seattle, Wash. Plow for unloading cars. No. 988,926; Apr. 4; Sp. p. 1328; Gaz. vol. 165; p. 213;
Byers, Jacob J., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-truck. No. 996,000; June 20; Sp. p. 4141; Gaz. vol. 167; p. 721.
Byers, Jacob J., Chicago, Ill., assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft-rigging. No. 1,011,116 Dec. 5; Sp. p. 1573; Gaz. vol. 173; p. 249.
Byers, William J. (See Parry and Byers.)
Byler, Tilden J., Blanco, Tex. Loading and dumping device. No. 990,955; May 2; Sp. p. 276; Gaz. vol. 166; p. 47.

Alphabetical list of patentees—Continued.

Bynum, Robert M. (See Maglenn, James, assignor.)
Byram, Frank A., Philadelphia, Pa. Trimming. No. 996,001; June 20; Sp. p. 4142; Gaz. vol. 167; p. 721.
Byram, William T. (See Harris, Richard H., assignor.)
Byrd, Britton E., assignor to Byrd Manufacturing Co., Durham, N. C. Knotter. No. 1,002,495; Sept. 5; Sp. p. 707; Gaz. vol. 170; p. 104.
Byrd, Cletus O., Gassaway, W. Va. Funnel. No. 1,000,150; Aug. 8; Sp. p. 1970; Gaz. vol. 169; p. 355.
Byrd Manufacturing Co. (See Byrd, Britton E., assignor.)
Byrd, Walter M., Mount Gilead, N. C. Whiffletree. No. 980,486; Jan. 3; Sp. p. 670; Gaz. vol. 162; p. 109.
Byrider, William A. (See Evans, William J., assignor.)
Byrne, Charles A., Minneapolis, assignor of one-half to F. Dunning, Osseo, Minn. Garbage-incinerating and steam-generating system. No. 994,636; June 6; Sp. p. 1123; Gaz. vol. 167; p. 184.
Byrne, Francis W., Everson, Pa. Mine-car-derailing device. No. 990,703; Apr. 25; Sp. p. 5260; Gaz. vol. 165; p. 908.
Byrne, Matthew, San Francisco, Cal. Pneumatic insole and arch-support. No. 989,894; Apr. 18; Sp. p. 3429; Gaz. vol. 165; p. 598.
Byrne, Roderick E., assignor of one-half to J. R. Cameron, Ottawa, Ontario, Canada. Fireproof shutter. No. 991,605; May 9; Sp. p. 1680; Gaz. vol. 166; p. 308.
Byrne, Thomas. (See Spratley, George, assignor.)
Byrne, Walter A., and J. Wise, assignors of one-third to M. A. O'Connell and one-fourth to P. F. Morrissy, Auburn, N. Y. Car-door lock. No. 986,799; Mar. 14; Sp. p. 2214; Gaz. vol. 164; p. 384.
Byrnes, Clarence P., Sewickley, Pa. Tie-plate. No. 981,378; Jan. 10; Sp. p. 2748; Gaz. vol. 162; p. 446.
Byrnes, Eugene A., Washington, D. C., assignor to Pittsburgh Pure Metal Products Company, Pittsburgh, Pa. Iron-silicon ingot. No. 1,004,987; Oct. 3; Sp. p. 928; Gaz. vol. 171; p. 154.
Byron, Hagar B., Dallas, Tex. Cotton-harvester. No. 980,596; Jan. 3; Sp. p. 905; Gaz. vol. 162; p. 146.
Byron Jackson Iron Works. (See Forward, Walter L., assignor.)
Byron Jackson Iron Works. (See Jackson, Franklin H., assignor.)
Byron Jackson Iron Works. (See Paulsmeier, Albert C., assignor.)
Byron, Kenneth M., San Jose, Cal. Type-writer-cabinet. No. 992,640; May 16; Sp. p. 3888; Gaz. vol. 166; p. 693.
Byron, Orra E., assignor of one-half to T. W. Fugate, Denver, Colo. Folding wind-shield for automobiles. No. 994,121; June 6; Sp. p. 37; Gaz. vol. 167; p. 9.
Bzsan, Stephen, Strawn, Tex. Tie-rod for the rails of a track. No. 1,003,330; Sept. 12; Sp. p. 2509; Gaz. vol. 170; p. 432.
C. Cowles & Co. (See Gates, Louis W., assignor.)
C. Schmidt Company, The. (See Brunzwick and Ahrens, assignors.)
C. A. Lawton Company. (See Armstrong, Frank H., assignor.)
C. B. Cottrell & Sons Company. (See Barber, Howard M., assignor.)
C. B. Cottrell & Sons Company. (See Cundall, Constant T., assignor.)
C. B. Cottrell & Sons Company. (See McKee, Milton A., assignor.)
C. B. Cottrell & Sons Company. (See Weinwurm, Stephan, assignor.)
C. E. Sheppard Co., The. (See Eddy, Thomas R., assignor.)
C. F. Pease Company, The. (See Hallefas, Frank H., assignor.)
C. F. Pease Company, The. (See Pease, Charles F., assignor.)
C. F. Splitdorf. (See Splitdorf, John, assignor.)
C. G. Sargent's Sons Corporation. (See Sargent, Allan C., assignor.)
C. G. Sargent's Sons Corporation. (See Sargent, Charles G., assignor.)
C. G. Sargent's Sons Corporation. (See Sargent, Frederick G., assignor.)
C. G. Sargent's Sons Corporation. (See Thompson, Albert W., assignor.)
C. M. Kemp Manufacturing Company, The. (See Kemp, Clarence M., assignor.)
C. P. Power Company. (See Noyes, Edward P., assignor.)
C. P. Power Company. (See Noyes and Reeve, assignors.)
C. P. Power Company. (See Reeve, Sidney A., assignor.)
C. P. Power Company. (See Reeve and Noyes, assignors.)
C. T. Patterson Company. (See Coleman, Thomas A., assignor.)
C. T. Patterson Company Limited. (See Turner, James W., assignor.)
C. W. Raymond Company, The. (See Heuss and Vater, assignors.)
Cabanne, John P., St. Louis, Mo. Pasteurizing liquid food and drink products in glass containers. No. 996,209; June 27; Sp. p. 4636; Gaz. vol. 167; p. 827.
Cabell, Charles A., Carbon, W. Va. System of mining coal. No. 980,196; Jan. 3; Sp. p. 33; Gaz. vol. 162; p. 8.
Cable Company, The. (See Hagey, James C., assignor.)
Cable Company, The. (See Klugh, Paul B., assignor.)
Cable Company, The. (See Pierce, Harry, assignor.) (Reissue.)
Cable, Daniel J., Pittsburg, Pa. Pipe-thread protector. No. 1,000,375; Aug. 15; Sp. p. 2479; Gaz. vol. 169; p. 463.
Cable, Daniel J., assignor to Frick & Lindsay Company, Pittsburg, Pa. Pipe-thread protector. No. 1,000,374; Aug. 15; Sp. p. 2476; Gaz. vol. 169; p. 463.
Cable, Frank E. (See Porter and Cable.)
Cable, John, Seattle, Wash. Sweeping-machine. No. 998,745; July 25; Sp. p. 4698; Gaz. vol. 168; p. 850.
Cable, John W., South Chicago, Ill. Trace-fastener. No. 992,405; May 16; Sp. p. 3401; Gaz. vol. 166; p. 612.
Cabot, Samuel, Canton, Mass. Insulating-board. No. 991,271; May 2; Sp. p. 953; Gaz. vol. 166; p. 160.
Cabral, Jesse L., South Easton, Mass. Rolling window-screen. No. 997,600; July 11; Sp. p. 2073; Gaz. vol. 168; p. 370.
Cachard, Philippe. (See Bosset and Cachard.)
Cadé, Auguste L., Paris, France. Device for securing tires to wheel-rims. No. 982,573; Jan. 24; Sp. p. 5275; Gaz. vol. 162; p. 910.
Cade, Baylus, Shelby, N. C. Line-casting and type-composing machine. No. 1,002,220; Sept. 5; Sp. p. 57; Gaz. vol. 170; p. 7.
Cade, Howard E. (See Knapp and Cade.)
Caddy, Sydney C., Keynsham, near Bristol, England. Skipping appliance and physical-exercising device. No. 1,010,015; Nov. 28; Sp. p. 5251; Gaz. vol. 172; p. 941.
Cady, Carson J., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Rounding-machine. No. 1,010,854; Dec. 5; Sp. p. 1021; Gaz. vol. 173; p. 159.
Cady, Jeptha D., Quanah, Tex. Cement plaster. No. 985,656; Feb. 28; Sp. p. 5201; Gaz. vol. 163; p. 919.
Cady, William M. (See Turner and Cady.)
Cafferty, Ridner P., New York, N. Y. Safety-razor. No. 999,697; Aug. 1; Sp. p. 980; Gaz. vol. 169; p. 171.
Cafferty, Theron S., Union, N. Y. Means for leveling and finishing the surfaces of ballasted railway-tracks. (Reissue.) No. 13,194; Jan. 10; Sp. p. 3197; Gaz. vol. 162; p. 522.
Cagle, A. W. (See Weatherly, William F., assignor.)
Cahaney, James M., assignor of one-half to G. Rausch, Dennison, Ohio. Shelf attachment for tubs. No. 992,641; May 16; Sp. p. 3889; Gaz. vol. 166; p. 693.
Cahill, Helen M., Oregon City, Oreg. Basket for growing plants. No. 994,816; June 13; Sp. p. 1569; Gaz. vol. 167; p. 287.
Cahill, Helm H. (See Falk, Andrew, assignor.)
Cahill Iron Works, The. (See Mahoney, John J., assignor.)
Cahill Iron Works, The. (See Zipp, John, assignor.)
Cahill, Michael F., Boston, Mass. Machine for trimming cups or shells. No. 1,008,784; Nov. 14; Sp. p. 2615; Gaz. vol. 172; p. 439.
Cahill, Thomas J., San Francisco, Cal. Firearm-trigger. No. 1,011,154; Dec. 12; Sp. p. 1692; Gaz. vol. 173; p. 298.
Cahn, Bernard, Fresno, Cal. Lady's folding garment-form. No. 1,000,712; Aug. 15; Sp. p. 3231; Gaz. vol. 169; p. 584.
Cahoone, Edwin R., Troy, N. Y. Combined gas and solid-fuel burning stove. No. 991,272; May 2; Sp. p. 954; Gaz. vol. 166; p. 161.
Caille, Auguste A., Detroit, Mich. Ticket-vending machine. No. 1,004,144; Sept. 26; Sp. p. 4358; Gaz. vol. 170; p. 772.
Caille, Auguste A., and H. B. Conover, Detroit, Mich. Vending-machine. No. 1,010,231; Nov. 28; Sp. p. 5667; Gaz. vol. 172; p. 1014.
Caille, Charles, Le Perreux, France. Feed-water heater. No. 985,778; Mar. 7; Sp. p. 24; Gaz. vol. 164; p. 6.
Cain, David M., and N. F. Rockey, Elida, N. Mex. Mail and coin holder for rural carriers. No. 1,012,594; Dec. 26; Sp. p. 4868; Gaz. vol. 173; p. 877.
Cain, Isaac B., Kinney, Minn. Combination-rack. No. 1,012,518; Dec. 19; Sp. p. 4691; Gaz. vol. 173; p. 806.
Caine, Frank E., assignor to Pacific Patent Appliance Company, San Francisco, Cal. Device for winding and rewinding continuous webs. No. 983,602; Feb. 7; Sp. p. 754; Gaz. vol. 163; p. 118.
Caines, Arthur C., Swansea, England. Construction of ships. No. 1,008,008; Nov. 7; Sp. p. 787; Gaz. vol. 172; p. 124.
Cairncross, James C., Omemee, N. D. Automatic steam and lever plow-lift. No. 987,696; Mar. 28; Sp. p. 4089; Gaz. vol. 164; p. 750.
Cake, David S., Los Angeles, Cal. Combined tail light and number for automobiles. No. 1,009,470; Nov. 21; Sp. p. 4127; Gaz. vol. 172; p. 712.
Calahan, Delona L., Centralia, Wash. Turning-tool. No. 1,003,584; Sept. 19; Sp. p. 3056; Gaz. vol. 170; p. 551.
Calahan, John. (See Pratt and Calahan.)
Caldecott, William A., Johannesburg, Transvaal. Means for separating liquids from crushed-ore products. No. 1,008,524; Nov. 14; Sp. p. 2027; Gaz. vol. 172; p. 346.
Calderwood, Benjamin C. (See White and Calderwood.)
Caldwell, Andrew H., Port Byron, N. Y. Hanger-tape. No. 982,574; Jan. 24; Sp. p. 5276; Gaz. vol. 162; p. 910.

Alphabetical list of patentees—Continued.

Caldwell, Clinton H., Rolfe, Pa. Expansible pulley. No. 1,012,983; Dec. 26; Sp. p. 5769; Gaz. vol. 173; p. 1011.
Caldwell Complete Laundry Marker Company. (See Caldwell, John D., assignor.)
Caldwell, Edwin D., St. Charles, Ill., assignor, by mesne assignments, to Chautauqua Motor Company, Dunkirk, N. Y. Steam-boiler. No. 982,347; Jan. 24; Sp. p. 4804; Gaz. vol. 162; p. 832.
Caldwell, Henry C., Fort Mills, Corregidor, Philippine Islands. Transformer system. No. 1,008,293; Nov. 7; Sp. p. 1402; Gaz. vol. 172; p. 227.
Caldwell, James E., City View, Ontario, Canada. Weed-plow for plants. No. 986,438; Mar. 14; Sp. p. 1447; Gaz. vol. 164; p. 261.
Caldwell, James P. (See Boyer and Caldwell.)
Caldwell, John, assignor of one-third to F. C. Duntlin and one-third to W. H. Williams, New York, N. Y. Apparatus for removing wall-paper. No. 991,826; May 9; Sp. p. 2145; Gaz. vol. 166; p. 382.
Caldwell, John D., assignor to Caldwell Complete Laundry Marker Company, Seattle, Wash. Laundry-marker. No. 991,132; May 2; Sp. p. 642; Gaz. vol. 166; p. 110.
Caldwell, John O., Jr., assignor of one-half to J. O. Caldwell, Sr., Boston, Mass. Tire-protector. No. 1,012,325; Dec. 19; Sp. p. 4323; Gaz. vol. 173; p. 742.
Caldwell, John W., Toronto, Ontario, Canada. Auger-bit. No. 996,612; July 4; Sp. p. 26; Gaz. vol. 168; p. 7.
Caldwell, Joseph R., Stuart, Iowa. Sash-cord guide. No. 988,972; Apr. 11; Sp. p. 1423; Gaz. vol. 165; p. 252.
Caldwell Manufacturing Company. (See Hodgkinson, Percy W., assignor.)
Caldwell, William H. (See Hodgkinson, Percy W., assignor.)
Caldwell, William H., *et al.* (See Selden, Arthur R., assignor.)
Caldwell, Yancey Q., Paris, Tenn. Lock. No. 1,003,331; Sept. 12; Sp. p. 2510; Gaz. vol. 170; p. 432.
Caldwell, Yancey Q., Paris, Tenn. Hasp-lock. No. 1,003,332; Sept. 12; Sp. p. 2512; Gaz. vol. 170; p. 432.
Caley, William H., Littleton, Colo. Coffee-pot. No. 1,010,582; Dec. 5; Sp. p. 406; Gaz. vol. 173; p. 64.
Calhoun, Guy K., U. S. Navy. Attachment for mariners' compasses. No. 994,569; June 6; Sp. p. 976; Gaz. vol. 167; p. 161.
Calhoun, John C., Midville, Ga. Fence-post. No. 1,011,914; Dec. 19; Sp. p. 3416; Gaz. vol. 173; p. 598.
California Corrugated Culvert Company. (See Thorsby, Karl J., assignor.)
California Fruit Canners Association. (See Vallarino, Davide, assignor.)
California Gold Saving Machine Company. (See Ponten, Anders, assignor.)
California Valve and Air Brake Company. (See Neal, Spencer G., assignor.)
Calkin, Benjamin H., and E. W. Mayfield, Chicago, Ill. Preparing and dispensing beverages. No. 994,975; June 13; Sp. p. 1939; Gaz. vol. 167; p. 340.
Calkins, Almon B., Passaic, N. J. Rotary fluid operated and operating device. No. 993,648; May 30; Sp. p. 6053; Gaz. vol. 166; p. 1099.
Calkins, Daniel N., assignor to Rochester Germicide Company, Rochester, N. Y. Fumigating apparatus. No. 996,399; June 27; Sp. p. 5067; Gaz. vol. 167; p. 892.
Calkins, Edmund B., Watertown, N. Y. Safety cranking device. No. 1,002,898; Sept. 12; Sp. p. 1616; Gaz. vol. 170; p. 280.
Calkins, Edmund B., Watertown, N. Y. Safety cranking device. No. 1,002,899; Sept. 12; Sp. p. 1621; Gaz. vol. 170; p. 280.
Calkins, George H., *et al.* (See Garretson, Eugene, assignor.)
Calkins, Mary R., Hayward, Cal. Ironing-board. No. 1,006,180; Oct. 17; Sp. p. 3552; Gaz. vol. 171; p. 628.
Call, Charles W., Jr., Northport, N. Y. Marine craft. No. 1,004,362; Sept. 26; Sp. p. 4781; Gaz. vol. 170; p. 845.
Call, Hubert I., Spokane, Wash., assignor to The Hercules Rotary Engine Company, Limited, Wetaskiwin, Canada. Rotary engine. No. 985,974; Mar. 7; Sp. p. 469; Gaz. vol. 164; p. 75.
Call, Ira A., Denver, Colo. Safety railway-switch. No. 995,950; June 20; Sp. p. 4044; Gaz. vol. 167; p. 704.
Call, Joseph M. (See Darlington and Call.)
Call, Joseph M., assignor to B. Darlington, Vaughan, W. Va. Fire-grate. No. 981,528; Jan. 10; Sp. p. 3055; Gaz. vol. 162; p. 498.
Callaghan, William T., Chicago, Ill. Book-stack. No. 989,566; Apr. 18; Sp. p. 2729; Gaz. vol. 165; p. 487.
Callahan, George M., Jersey Shore, Pa. Composition of matter for cooling journals and shafts of engines, &c. No. 1,003,983; Sept. 26; Sp. p. 3940; Gaz. vol. 170; p. 715.
Callahan, Lee, Los Angeles, Cal. Apparatus for forming concrete building-work. No. 986,134; Mar. 7; Sp. p. 788; Gaz. vol. 164; p. 128.
Callahan, Lee, Los Angeles, Cal. Self-dumping hoist. No. 1,000,234; Aug. 8; Sp. p. 2160; Gaz. vol. 169; p. 384.
Callahan, Owen W., Cleveland, Ohio, assignor to The Owen Bucket Company. Grab-bucket. No. 997,748; July 11; Sp. p. 2433; Gaz. vol. 168; p. 424.
Callahan, Warren C., Louisville, Ky. Portable bathing device. No. 996,453; June 27; Sp. p. 5197; Gaz. vol. 167; p. 911.
Callahan, William J. (See Green, Coulson, and Callahan.)
Callan, John, Globe, Ariz. Vehicle-wheel. No. 1,004,988; Oct. 3; Sp. p. 928; Gaz. vol. 171; p. 154.
Callan, John G. (See Rice and Callan.)
Callan, John G., Nahant, Mass., assignor to General Electric Company. Governing mechanism for elastic-fluid turbines. No. 980,487; Jan. 3; Sp. p. 671; Gaz. vol. 162; p. 109.
Callen, Edward D., Vicksburg, Miss. Sand-scow. No. 988,289; Mar. 28; Sp. p. 5375; Gaz. vol. 164; p. 950.
Calleson, Amos. (See Adriance and Calleson.)
Calleson, Amos, assignor of one-half to B. Adriance, Brooklyn, N. Y. Bottle-capping machine. No. 985,141; Feb. 28; Sp. p. 4036; Gaz. vol. 163; p. 742.
Calleson, Amos, assignor of one-half to B. Adriance, Brooklyn, N. Y. Machine for attaching closures to bottles and the like. No. 987,670; Mar. 21; Sp. p. 4007; Gaz. vol. 164; p. 713.
Calley, Freeman A., Franklin, N. H. Baking apparatus. No. 996,971; July 4; Sp. p. 779; Gaz. vol. 168; p. 128.
Callow, Frank P., Salt Lake City, Utah. Compressed-air water-elevator. No. 1,000,713; Aug. 15; Sp. p. 3233; Gaz. vol. 169; p. 584.
Callow, John. (See Baker and Callow.)
Callsen, Jürgen, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Bromodiethylacetylurea. No. 983,425; Feb. 7; Sp. p. 353; Gaz. vol. 163; p. 59.
Callsen, Jürgen, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Monocinnamic ester of glycerin. No. 999,955; Aug. 8; Sp. p. 1532; Gaz. vol. 169; p. 289.
Calvert, Thomas E., Chicago, Ill. Switch-stand. No. 981,379; Jan. 10; Sp. p. 2749; Gaz. vol. 162; p. 447.
Calvin, Hiram H., Toledo, Ohio. Air-controller for warm-air furnaces. No. 1,000,324; Aug. 8; Sp. p. 2340; Gaz. vol. 169; p. 414.
Camagni, Mario, Paterson, N. J. Loom shuttle-tension mechanism. No. 990,334; Apr. 25; Sp. p. 4409; Gaz. vol. 165; p. 780.
Camal, Victor, Paris, France. Flying-machine. No. 996,613; July 4; Sp. p. 27; Gaz. vol. 168; p. 7.
Cambria Steel Company. (See Morrison, Andrew, assignor.)
Cambridge, Allan S., Keighley, England. Gas-producer. No. 997,962; July 18; Sp. p. 2940; Gaz. vol. 168; p. 540.
Cambridge Novelty Company. (See Lightbody, Frank J., assignor.)
Camden Iron Works. (See Jensenius, Herman A., assignor.)
Camden Iron Works. (See Lummis, Charles W., assignor.)
Camehl, George H., Buffalo, N. Y. Wire nail. No. 984,190; Feb. 14; Sp. p. 2016; Gaz. vol. 163; p. 346.
Cameragraph Co. (See Schwab, William R., assignor.)
Cameron, Clyde M., assignor of one-third to J. M. Johnson and one-third to D. L. Cameron, Simmons, Tex. Computing-scale. No. 1,004,363; Sept. 26; Sp. p. 4784; Gaz. vol. 170; p. 845.
Cameron, Daniel L., *et al.* (See Cameron, Clyde M., assignor.)
Cameron, Daniel W., Pittsburgh, Pa. Rail joint and chair. No. 1,006,719; Oct. 24; Sp. p. 4742; Gaz. vol. 171; p. 845.
Cameron, Everett S., Beverly, Mass. Valve-action for explosive-engines. No. 981,165; Jan. 10; Sp. p. 2257; Gaz. vol. 162; p. 373.
Cameron, George W., Hondo, Tex. Cotton conveying and packing device. No. 988,307; Apr. 4; Sp. p. 21; Gaz. vol. 165; p. 7.
Cameron, James A., New York, N. Y. Light-shield for moving-picture machines. No. 1,005,935; Oct. 17; Sp. p. 3007; Gaz. vol. 171; p. 542.
Cameron, James A., New York, N. Y. Moving-picture machine. No. 1,005,936; Oct. 17; Sp. p. 3010; Gaz. vol. 171; p. 542.
Cameron, John L., executor. (See Carrick, James T., assignor.)
Cameron, John M., Cranberry, N. C. Inertia spindle-lubricator. No. 1,006,908; Oct. 24; Sp. p. 5195; Gaz. vol. 171; p. 913.
Cameron, Joseph R. (See Byrne, Roderick E., assignor.)
Cameron, Julia E. (See Coryell, Edwin M., assignor.)
Cameron, William H., assignor to The Willys-Overland Automobile Company, Toledo, Ohio. Engine. No. 1,006,431; Oct. 17; Sp. p. 4101; Gaz. vol. 171; p. 715.
Cammett, Ira A., Hollywood, assignor of one-half to W. C. Cutler, Los Angeles, Cal. Hat-band. No. 1,012,244; Dec. 19; Sp. p. 4161; Gaz. vol. 173; p. 714.
Camp, Augustus J., Birmingham, Ala. Means for making, collating, and auditing records pertaining to car movements. No. 981,245; Jan. 10; Sp. p. 2467; Gaz. vol. 162; p. 401.
Camp Bros. Co. (See Clements, Charles F., assignor.)
Camp, Henry H., B. J. Maynard, and B. P. Wise, Cleveland, Ohio. Bench. No. 1,000,070; Aug. 8; Sp. p. 1781; Gaz. vol. 169; p. 328.

Alphabetical list of patentees—Continued.

Camp, James O., Jr., Jacksonville, Ala. Electric lamp. No. 982,470; Jan. 24; Sp. p. 5078; Gaz. vol. 162; p. 876.
Camp, Leroy. (See Burgess and Camp.)
Camp, Samuel G., assignor of one-half to T. D. Hill, Philadelphia, Pa. Chandelier. No. 998,323; July 18; Sp. p. 3774; Gaz. vol. 168; p. 671.
Camp, Theodore L. (See Keyes and Camp.)
Camp, Thomas E., Milwaukee, Wis. Tongue-and-groove joint. No. 986,439; Mar. 14; Sp. p. 1448; Gaz. vol. 164; p. 261.
Campau, Merle G., Oconto, Nebr. Cream-tester. No. 987,613; Mar. 21; Sp. p. 3886; Gaz. vol. 164; p. 692.
Campau, Merle G., Oconto, Nebr. Cream-tester. No. 1,002,366; Sept. 5; Sp. p. 439; Gaz. vol. 170; p. 61.
Campau, Merle G., Oconto, Nebr. Cream and milk testing device. No. 1,010,016; Nov. 28; Sp. p. 5253; Gaz. vol. 172; p. 941.
Campbell, Alfred G., Sherbrooke, Quebec, Canada. Rock-pulverizing machine. No. 990,633; Apr. 25; Sp. p. 5075; Gaz. vol. 165; p. 884.
Campbell, Alto L. (See Pledger and Campbell.)
Campbell, Andrew, Crocrannock, Rangoon, Burmah, India, assignor to The Burmah Oil Company, Limited, Glasgow, Scotland. Apparatus for treating paraffin-wax. No. 999,628; Aug. 1; Sp. p. 847; Gaz. vol. 169; p. 148.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car. No. 992,753; May 23; Sp. p. 4116; Gaz. vol. 166; p. 761.
Campbell, Arthur B., Syracuse, N. Y. Nurling device. No. 980,197; Jan. 3; Sp. p. 36; Gaz. vol. 162; p. 9.
Campbell, Arthur W., North Yakima, Wash. Pocket-book holder. No. 982,242; Jan. 24; Sp. p. 4566; Gaz. vol. 162; p. 794.
Campbell, Bertha, administratrix. (See Seifert, Adolph R. R.)
Campbell, Charles A., Brooklyn, N. Y. Incandescent gas-lamp. No. 982,471; Jan. 24; Sp. p. 5080; Gaz. vol. 162; p. 877.
Campbell, Charles E., Lynn, Mass. Time-switch. No. 984,191; Feb. 14; Sp. p. 2017; Gaz. vol. 163; p. 347.
Campbell, Charles E., Lynn, Mass. Fluoroscope. No. 984,520; Feb. 14; Sp. p. 2743; Gaz. vol. 163; p. 458.
Campbell, Charles E., assignor to Vacuum Glass Company, Lynn, Mass. Incandescent lamp. No. 988,308; Apr. 4; Sp. p. 23; Gaz. vol. 165; p. 7.
Campbell, Charles E., assignor to Campbell Electric Company, Lynn, Mass. Electrotherapeutic apparatus. No. 1,012,326; Dec. 19; Sp. p. 4325; Gaz. vol. 173; p. 742.
Campbell, Charles H., New York, N. Y. Manufacture of condensed milk. No. 992,705; May 16; Sp. p. 4005; Gaz. vol. 166; p. 715.
Campbell, Charles H., New York, N. Y. Desiccating milk. No. 996,832; July 4; Sp. p. 473; Gaz. vol. 168; p. 78.
Campbell, Charles H., New York, N. Y. Making dry milk. No. 1,002,496; Sept. 5; Sp. p. 710; Gaz. vol. 170; p. 104.
Campbell, Charles T., Woodville, Ky. Plant-bed burner. No. 988,309; Apr. 4; Sp. p. 24; Gaz. vol. 165; p. 7.
Campbell, Claude D., Lower Salem, Ohio. Stuffing-box. No. 992,109; May 9; Sp. p. 2675; Gaz. vol. 166; p. 476.
Campbell, Duncan, Pendleton, Oreg. Sliding-door lock. No. 1,010,855; Dec. 5; Sp. p. 1023; Gaz. vol. 173; p. 159.
Campbell Electric Company. (See Campbell, Charles E., assignor.)
Campbell, Elton, Frankfort, Ind. Watchmaker's tool. No. 1,001,248; Aug. 22; Sp. p. 4403; Gaz. vol. 169; p. 801.
Campbell, Frank. (See Trayer and Campbell.)
Campbell, George A., Brooklyn, N. Y., and T. Shaw, Hackensack, N. J., assignors to American Telephone and Telegraph Company. Loaded phantom-circuit. No. 980,921; Jan. 10; Sp. p. 1652; Gaz. vol. 162; p. 286.
Campbell, George D., *et al.* (See Griffith, Llewellyn A., assignor.)
Campbell, George P., Schenectady, N. Y. Steam-boiler. No. 997,963; July 18; Sp. p. 2943; Gaz. vol. 168; p. 540.
Campbell, Harry A. F., Cynwyd, assignor to Baldwin Locomotive Works, Philadelphia, Pa. Car-truck. No. 985,657; Feb. 28; Sp. p. 5202; Gaz. vol. 163; p. 919.
Campbell, Henry H., *et al.* (See McCalley, James, assignor.)
Campbell, Herman B., *et al.* (See Ross, Robert J., assignor.)
Campbell, James D., Detroit, Mich. Means for packing ammonia-cylinders. No. 1,005,596; Oct. 10; Sp. p. 2270; Gaz. vol. 171; p. 390.
Campbell, James P. (See Wilson and Campbell.)
Campbell, Jessie M., *et al.* (See McCalley, James, assignor.)
Campbell, John, Dominion, Nova Scotia, Canada. Rail-binder. No. 998,276; July 18; Sp. p. 3655; Gaz. vol. 168; p. 653.
Campbell, John A., Boston, Mass. Miter-box. No. 991,947; May 9; Sp. p. 2383; Gaz. vol. 166; p. 424.
Campbell, John H., assignor to F. G. Jones, Oregon, Ill. Note-sheet-feed mechanism. No. 987,697; Mar. 28; Sp. p. 4090; Gaz. vol. 164; p. 751.
Campbell, John K., Hartford, Conn. Means for lubrication of wrist-pins. No. 980,597; Jan. 3; Sp. p. 908; Gaz. vol. 162; p. 147.
Campbell, John S., Plainfield, N. J. Lock and fastening. No. 989,484; Apr. 11; Sp. p. 2512; Gaz. vol. 165; p. 425.
Campbell, John S., Pocahontas, Ark. Wire-stretcher. No. 1,003,333; Sept. 12; Sp. p. 2514; Gaz. vol. 170; p. 433.
Campbell, John W. (See Ramsay and McGary, assignors.)
Campbell, John W., Colorado Springs, Colo. Fire-extinguisher. No. 1,012,595; Dec. 26; Sp. p. 4869; Gaz. vol. 173; p. 877.
Campbell, Joseph H., Chicago, Ill. Column and beam. No. 982,472; Jan. 24; Sp. p. 5084; Gaz. vol. 162; p. 877.
Campbell, L. C., *et al.* (See Moore, Louis S., assignor.)
Campbell, Leonard H., Providence, R. I. Dish-washing machine. No. 999,956; Aug. 8; Sp. p. 1532; Gaz. vol. 169; p. 289.
Campbell, Lewis C., Carthage, Mo. Door latch and lock. No. 987,955; Mar. 28; Sp. p. 4703; Gaz. vol. 164; p. 840.
Campbell Magnetic Separating Company. (See Etherington, James B., assignor.)
Campbell, Peter, Carrolltown, Pa. Steel tie. No. 990,704; Apr. 25; Sp. p. 5261; Gaz. vol. 165; p. 908.
Campbell Printing Press & Manufacturing Company. (See Wood, Henry A. W., assignor.)
Campbell, Robert. (See Menzies and Cullon, assignors.)
Campbell, Robert, New York, N. Y. Hair-cutting device. No. 1,002,196; Aug. 29; Sp. p. 6386; Gaz. vol. 169; p. 1150.
Campbell, Robert C., Harlan, Iowa. Winding-machine. No. 993,151; May 23; Sp. p. 4980; Gaz. vol. 166; p. 901.
Campbell, Robert H. (See Read and Campbell.)
Campbell, Robert H., Edmonton, England. Closure for gas-containers. No. 986,135; Mar. 7; Sp. p. 792; Gaz. vol. 164; p. 128.
Campbell, Robert N. B., Derby, Conn. Glue-spreading machine. No. 982,348; Jan. 24; Sp. p. 4806; Gaz. vol. 162; p. 832.
Campbell, Sterling H., St. Louis, Mo. Combined train-pipe and angle-cock holder. No. 986,544; Mar. 14; Sp. p. 1677; Gaz. vol. 164; p. 297.
Campbell, Watson E., New Lebanon, Pa. Game. No. 1,009,471; Nov. 21; Sp. p. 4128; Gaz. vol. 172; p. 712.
Campbell, William, Spring Valley, Ill. Display-rack for beds. No. 999,152; July 25; Sp. p. 5564; Gaz. vol. 168; p. 989.
Campbell, William A., Kenton, Ohio. Nursing-stove. No. 988,077; Mar. 28; Sp. p. 4973; Gaz. vol. 164; p. 881.
Campbell, William A., Bakersfield, assignor of one-half to J. Goldman, San Francisco, Cal. Rope-socket. No. 997,488; July 11; Sp. p. 1845; Gaz. vol. 168; p. 333.
Campbell, William J. (See Hood and Campbell.)
Campbell, William R., Charleston, S. C. Shoe-polishing machine. No. 997,113; July 4; Sp. p. 1087; Gaz. vol. 168; p. 176.
Campfield, Edwin M., Richmond, Ind. Coping-block. No. 1,003,871; Sept. 19; Sp. p. 3652; Gaz. vol. 170; p. 650.
Campfield, Edwin M., Richmond, Ind. Wall-coping. No. 1,004,145; Sept. 26; Sp. p. 4361; Gaz. vol. 170; p. 775.
Campistrou, Maxime, Levallois-Perret, France. Crane. No. 1,011,739; Dec. 12; Sp. p. 3019; Gaz. vol. 173; p. 504.
Campkin, Walter H., Fort Gaines, Ga. Airship. No. 1,000,714; Aug. 15; Sp. p. 3237; Gaz. vol. 169; p. 585.
Canan, Clarence E., Omaha, Nebr. Loose-leaf binder. No. 991,133; May 2; Sp. p. 645; Gaz. vol. 166; p. 110.
Canda, Ferdinand E., New York, N. Y. Apparatus for and process of mixing metals. No. 995,421; June 13; Sp. p. 2883; Gaz. vol. 167; p. 489.
Candland, Arthur C., Provo, Utah. Fastening for railway-rails. No. 995,660; June 20; Sp. p. 3422; Gaz. vol. 167; p. 603.
Candle, Augustine, Leetonia, Ohio. Lamp-shifting mechanism for street-cars. No. 1,008,948; Nov. 14; Sp. p. 2946; Gaz. vol. 172; p. 492.
Cane, Frederick. (See Cane, Richard and F.)
Cane, Richard and F., London, England. Bedstead. No. 982,934; Jan. 31; Sp. p. 6055; Gaz. vol. 162; p. 1060.
Canedy, Earl. (See Stern, Philip K., assignor.)
Canedy, Earl, Chicago Heights, Ill. Sparker for explosive-engines. No. 982,473; Jan. 24; Sp. p. 5086; Gaz. vol. 162; p. 877.
Canedy, Earl, Chicago Heights, Ill. Spark-plug. No. 982,474; Jan. 24; Sp. p. 5088; Gaz. vol. 162; p. 878.
Canepa, Enrico G., Genoa, and G. Ottone fu Giorgio, Quinto al Mare, Italy. Collapsible-handle can. No. 1,007,429; Oct. 31; Sp. p. 6329; Gaz. vol. 171; p. 1149.
Canfield, Charles S., *et al.* (See Curry, Alfred A., assignor.)
Canfield, George W. (See Leach and Canfield.)
Canfield, Isaac P., Paw Paw, W. Va. Package-tie. No. 982,031; Jan. 17; Sp. p. 4155; Gaz. vol. 162; p. 693.
Canfield, Lee, Sparta, Wis. Drill. No. 1,000,778; Aug. 15; Sp. p. 3384; Gaz. vol. 169; p. 608.
Canfield, Richard A. (See Brown, Harry M., assignor.)
Canfield, Richard A. (See Dorman, William S., assignor.)
Canfield Rubber Company. (See Anderson, John A., assignor.)
Canham, Victor H., Guelph, Ontario, Canada. Garment-display stand. No. 988,927; Apr. 4; Sp. p. 1330; Gaz. vol. 165; p. 213.
Cannan, John J. (See Likly and Cannan.)

Alphabetical list of patentees—Continued.

Canner, William H., Corona, N. Y., assignor to Sanger Nozzle Company, Inc. Automatically-closing hose-nozzle. No. 1,011,314; Dec. 12; Sp. p. 2072; Gaz. vol. 173; p. 354.
Canner, William H., Corona, N. Y., assignor to Sanger Nozzle Company, Inc. Convertible hose-nozzle. No. 1,011,315; Dec. 12; Sp. p. 2074; Gaz. vol. 173; p. 355.
Canner, William H., Corona, N. Y., assignor to Sanger Nozzle Co., Inc. Expansible hose-nozzle. No. 1,011,316; Dec. 12; Sp. p. 2077; Gaz. vol. 173; p. 356.
Cannon, Jesse E. H., Americus, Ga. Window-screen. No. 998,464; July 18; Sp. p. 4052; Gaz. vol. 168; p. 718.
Canode, Frederick B., assignor, by mesne assignments, to Lakeside Specialty Company, Chicago, Ill. Pencil-pointer. No. 1,008,949; Nov. 14; Sp. p. 2947; Gaz. vol. 172; p. 492.
Cantilli, Constantin, Bucharest, Roumania. Boring apparatus. No. 1,003,334; Sept. 12; Sp. p. 2516; Gaz. vol. 170; p. 433.
Cantlon, John. (See Coon and Cantlon.)
Canton Culvert Company, The. (See Schlafly, Julius H., assignor.)
Canton Foundry & Heating Co. (See Chandler, Carl B., assignor.)
Canton Foundry and Machine Company, The. (See Slentz, Albertus O., assignor.)
Cantor, Jacob A. (See Lacroix, Fred, assignor.)
Cantor, Julius. (See Smith and Cantor.)
Cantor, Michael J. (See Siegel and Cantor.)
Cantor, Michael J., and E. Siegel, New York, N. Y. Tire for vehicles. No. 1,004,626; Oct. 3; Sp. p. 168; Gaz. vol. 171; p. 29.
Cantrell, Sam, Anadarko, Okla. Revolving stand-table. No. 981,529; Jan. 10; Sp. p. 3056; Gaz. vol. 162; p. 498.
Cantwell, Edward J., assignor to Charles H. Childs & Company, Utica, N. Y. Spraying-machine. No. 990,335; Apr. 25; Sp. p. 4411; Gaz. vol. 165; p. 780.
Canty, John W., Florence, Colo. Fluid-actuated tool. No. 981,530; Jan. 10; Sp. p. 3059; Gaz. vol. 162; p. 499.
Canty, Stephen, New Albany, Ind. Switch-tongue. No. 990,336; Apr. 25; Sp. p. 4412; Gaz. vol. 165; p. 781.
Capell, George M., near Stony Stratford, England. Centrifugal fan and pump-wheel. (Reissue.) No. 13,200; Feb. 7; Sp. p. 1321; Gaz. vol. 163; p. 210.
Capell, George M., Passenham Rectory, near Stony Stratford, England. Centrifugal fan and pump. No. 991,134; May 2; Sp. p. 650; Gaz. vol. 166; p. 111.
Capers, James D., Shaw, Miss. Roll-holding display-rack. No. 991,827; May 9; Sp. p. 2146; Gaz. vol. 166; p. 382.
Capers, James D., Shaw, Miss. Display-rack. No. 1,009,827; Nov. 28; Sp. p. 4860; Gaz. vol. 172; p. 878.
Capitain, Henry D., Chicago, Ill. Hand-bag for physicians and surgeons. No. 1,009,047; Nov. 21; Sp. p. 3168; Gaz. vol. 172; p. 562.
Capital Novelty Company. (See Nash, Thomas J., assignor.)
Capobianco, Joe. (See Landes, Abe R., assignor.)
Cappel, H. Joseph. (See Harbaugh, John R., assignor.)
Capper, George H., Minneapolis, Minn. Collar and tie form. No. 988,625; Apr. 4; Sp. p. 729; Gaz. vol. 165; p. 116.
Capron, Horace M., Winnetka, Ill. Concrete-mixer. No. 1,003,088; Sept. 12; Sp. p. 2002; Gaz. vol. 170; p. 344.
Caps, Arthur W., and R. F. Miehle, Jr.; said Caps assignor to A. M. Miehle, Chicago, Ill. Steam-generator for automobiles and the like. No. 1,011,117; Dec. 5; Sp. p. 1574; Gaz. vol. 173; p. 250.
Caputi, John, Hartford, Conn. Music-stand. No. 987,547; Mar. 21; Sp. p. 3751; Gaz. vol. 164; p. 670.
Capwell, Courtland G., Roslindale, assignor of thirty-seven one-hundredths to F. Rawitser, South Acton, and twenty-five one-hundredths to J. H. Moore, Boston, Mass. Resilient wheel for vehicles. No. 998,953; July 25; Sp. p. 5172; Gaz. vol. 168; p. 923.
Capwell, Courtland G., Boston, assignor of thirty-seven one-hundredths to F. Ruwitser, South Acton, and twenty-five one-hundredths to J. H. Moore, Boston, Mass. Resilient wheel for vehicles. No. 1,007,333; Oct. 31; Sp. p. 6119; Gaz. vol. 171; p. 1116.
Capwell, John H., Anthony, R. I. Speed-indicator. No. 980,198; Jan. 3; Sp. p. 38; Gaz. vol. 162; p. 9.
Caracristi, Virginius Z., Richmond, Va. Combined strainer and coupling for pneumatic hose. No. 993,152; May 23; Sp. p. 4981; Gaz. vol. 166; p. 901.
Carberry, Thomas, and C. A. Hanson, Munising, Mich. Wheel-guard and track-cleaner for sawmill-carriages. No. 986,136; Mar. 7; Sp. p. 793; Gaz. vol. 164; p. 128.
Carbonara, Paolo, Brooklyn, N. Y. Combined tailor's drafting chart and square. No. 1,011,915; Dec. 19; Sp. p. 3417; Gaz. vol. 173; p. 599.
Carbonnelle, Henri, Uccle, near Brussels, Belgium. Apparatus for transmitting half-tone pictures. No. 1,003,429; Sept. 19; Sp. p. 2707; Gaz. vol. 170; p. 497.
Carborundum Company, The. (See Allen, Thomas B., assignor.)
Carborundum Company, The. (See Tone, Frank J., assignor.)
Card, George F., Fort Wayne, Ind. Recording device. No. 1,000,989; Aug. 22; Sp. p. 3853; Gaz. vol. 169; p. 714.
Card, John F., assignor to Sheffield Car Company, Three Rivers, Mich. Collapsible core for use in the manufacture of coils. No. 1,002,367; Sept. 5; Sp. p. 441; Gaz. vol. 170; p. 62.
Card, Joseph B., and F. McArdle, Chicago, Ill. Apparatus for treating wooden blocks. No. 985,392; Feb. 28; Sp. p. 4614; Gaz. vol. 163; p. 827.
Cardell, George H., Reno, Nev. Pattern-drafting device. No. 984,347; Feb. 14; Sp. p. 2374; Gaz. vol. 163; p. 401.
Carder, James L., Los Angeles, Cal. Clothes-pounder. No. 980,199; Jan. 3; Sp. p. 40; Gaz. vol. 162; p. 10.
Carder, William W., Green Spring, W. Va. Cord-holder. No. 991,698; May 9; Sp. p. 1889; Gaz. vol. 166; p. 341.
Cardinet, Albert D., Oakland, Cal., assignor to Cardinet Fountain Brush Company. Brush. No. 985,779; Mar. 7; Sp. p. 25; Gaz. vol. 164; p. 7.
Cardinet, Albert D., Oakland, Cal., assignor to Cardinet Fountain Brush Company. Fountain-brush. No. 1,001,617; Aug. 29; Sp. p. 5160; Gaz. vol. 169; p. 956.
Cardinet Fountain Brush Company. (See Cardinet, Albert D., assignor.)
Cardwell, Addison A., Rye, N. Y., assignor to J. O. Davis, Hartford, Conn. Differential water-heater. No. 997,749; July 11; Sp. p. 2436; Gaz. vol. 168; p. 425.
Cardwell, George A., assignor to American Telegraph Typewriter Company, New York, N. Y. Telegraphic transmitter. No. 987,956; Mar. 28; Sp. p. 4705; Gaz. vol. 164; p. 841.
Cardwell, Robert M., and J. B. Tholen, Terrell, Tex. Proportioning weighing-machine. No. 1,001,503; Aug. 22; Sp. p. 4910; Gaz. vol. 169; p. 887.
Carence, Thomas, and E. W. Sumpter, Kansas City, Mo. Steam-coupling for railway-cars. No. 984,470; Feb. 14; Sp. p. 2613; Gaz. vol. 163; p. 441.
Carey, James D., assignor of one-half to D. M. Dore, New Haven, Conn. Trolley-wheel-restoring device. No. 991,423; May 2; Sp. p. 1266; Gaz. vol. 166; p. 212.
Carey, Joseph H., assignor to W. T. Gregg, Springfield, Mass. Folding square. No. 1,002,562; Sept. 5; Sp. p. 855; Gaz. vol. 170; p. 126.
Carey, Thomas C., Trenton, N. J. Couch-swing. No. 1,001,812; Aug. 29; Sp. p. 5583; Gaz. vol. 169; p. 1024.
Carichoff, Eugene R., Schenectady, N. Y., assignor to General Electric Company. Control of electrically-operated switches. No. 982,032; Jan. 17; Sp. p. 4156; Gaz. vol. 162; p. 693.
Caris, Frank L., and C. J. Gardner, Ravenna, Ohio. Apparatus for filling bottles. No. 996,972; July 4; Sp. p. 781; Gaz. vol. 168; p. 128.
Carkin, William F., Marlboro, N. H. Combination-knife. No. 987,548; Mar. 21; Sp. p. 3753; Gaz. vol. 164; p. 670.
Carle, Martin, and W. E. Kraft, Clifton Forge, Va. Lubricator for air-pumps. No. 1,004,989; Oct. 3; Sp. p. 929; Gaz. vol. 171; p. 154.
Carleton, Ernest W., assignor of one-half to W. M. Walton, Austin, Tex. Combination lock joint or device. No. 998,839; July 25; Sp. p. 4900; Gaz. vol. 168; p. 882.
Carley, Horace S., Hyde Park, Mass. Stereoscopic mailing-card. No. 991,948; May 9; Sp. p. 2385; Gaz. vol. 166; p. 424.
Carlin, James W., Sandusky, Ohio. Fountain-pen. No. 1,002,497; Sept. 5; Sp. p. 712; Gaz. vol. 170; p. 104.
Carlin, William J., *et al.* (See Castle, William W., assignor.)
Carlisle, Fred B., Malden, assignor to Standard Auto Valve Company, Boston, Mass. Tire-valve. No. 991,949; May 9; Sp. p. 2386; Gaz. vol. 166; p. 424.
Carll, Addison B., Jacksonville, Fla. Barrel-filler. No. 1,001,249; Aug. 22; Sp. p. 4404; Gaz. vol. 169; p. 801.
Carll, Charles E., Indianapolis, Ind. Engine-starting crank. No. 1,001,813; Aug. 29; Sp. p. 5585; Gaz. vol. 169; p. 1024.
Carlock, Job W., Graysville, Tenn. Hoe. No. 1,005,152; Oct. 10; Sp. p. 1235; Gaz. vol. 171; p. 231.
Carlsen, Andrew M., St. Paul, Minn. Piano-violin. No. 996,614; July 4; Sp. p. 31; Gaz. vol. 168; p. 8.
Carlsen, Benjamin A., Sioux Falls, S. D. Axle. No. 1,001,349; Aug. 22; Sp. p. 4631; Gaz. vol. 169; p. 837.
Carlson, Albertina N., Riverside, Ill. Ice-cream-freezer support. No. 1,007,062; Oct. 31; Sp. p. 5511; Gaz. vol. 171; p. 1018.
Carlson, Andrew M., Hayden Lake, Idaho. Rail-shoe. No. 1,002,498; Sept. 5; Sp. p. 713; Gaz. vol. 170; p. 105.
Carlson, Andrew W., Spokane, Wash. Detachable heel. No. 1,000,894; Aug. 15; Sp. p. 3608; Gaz. vol. 169; p. 648.
Carlson, Arthur T., Dudley, Iowa. Hinged fork for check-row planters. No. 997,369; July 11; Sp. p. 1625; Gaz. vol. 168; p. 295.
Carlson, Axel A., Lindsborg, Kans. Safety-razor. No. 1,007,847; Nov. 7; Sp. p. 468; Gaz. vol. 172; p. 70.
Carlson, Axel W., Ely, Minn. Tourist's harness or pack-bag. No. 990,837; May 2; Sp. p. 19; Gaz. vol. 166; p. 6.
Carlson, Carl, Portland, Oreg. Furnace. No. 997,178; July 4; Sp. p. 1231; Gaz. vol. 168; p. 199.
Carlson, Carl H., Iron Mountain, Mich. Butcher's-block scraper. No. 1,011,916; Dec. 19; Sp. p. 3419; Gaz. vol. 173; p. 599.
Carlson, Charles W. (See Householder, James E., assignor.)

Alphabetical list of patentees—Continued.

Carlson, Edvard, Jamestown, N. Y. Device for securing the edges of fabrics within a frame. No. 1,005,509; Oct. 10; Sp. p. 2046; Gaz. vol. 171; p. 360.
Carlson, Edwin, Minneapolis, Minn. Elevator-operating mechanism. No. 983,426; Feb. 7; Sp. p. 354; Gaz. vol. 163; p. 59.
Carlson, Eric W. (See Kennedy and Carlson.)
Carlson, Frank E., Chicago, Ill. Automobile tire-pump. No. 1,005,690; Oct. 10; Sp. p. 2468; Gaz. vol. 171; p. 423.
Carlson, Frank W., Chicago, Ill. Closet bend or connection. No. 986,905; Mar. 14; Sp. p. 2442; Gaz. vol. 164; p. 422.
Carlson, Hjalmar G. (See Rockford and Carlson.)
Carlson, Hjalmar G., assignor to Worcester Fire Extinguisher Company, Worcester, Mass. Hanger-block. No. 984,647; Feb. 21; Sp. p. 3041; Gaz. vol. 163; p. 538.
Carlson, John A., Hartford, Conn. Wrench. No. 993,504; May 30; Sp. p. 5742; Gaz. vol. 166; p. 1049.
Carlson, John A., Chicago, Ill. Windmill. No. 996,309; June 27; Sp. p. 4870; Gaz. vol. 167; p. 859.
Carlson, Joseph C., Moline, Ill. Whip-lock. No. 984,192; Feb. 14; Sp. p. 2021; Gaz. vol. 163; p. 347.
Carlson, Lars H., Lorain, Ohio. Box-skid. No. 990,105; Apr. 18; Sp. p. 3870; Gaz. vol. 165; p. 669.
Carlson, Oscar B., Månsbo, Avesta, assignor to O. F. Carlson, Stockholm, Sweden. Producing ammonium perchlorate. No. 985,724; Feb. 28; Sp. p. 5380; Gaz. vol. 163; p. 943.
Carlson, Oscar F. (See Carlson, Oscar B., assignor.)
Carlson, Oskar, Felch, Mich. Grain-door. No. 1,005,510; Oct. 10; Sp. p. 2047; Gaz. vol. 171; p. 360.
Carlson, Peet, Carlson, Tex. Cotton-chopper. No. 986,137; Mar. 7; Sp. p. 794; Gaz. vol. 164; p. 129.
Carlson, Peet, Carlson, Tex. Cotton-chopper. No. 1,005,691; Oct. 10; Sp. p. 2470; Gaz. vol. 171; p. 424.
Carlson, Ture, Jamestown, N. Y. Joint-fastener. No. 1,007,334; Oct. 31; Sp. p. 6122; Gaz. vol. 171; p. 1116.
Carlson, Walter C., assignor to Milwaukee Paper Box Company, Milwaukee, Wis. Paper box. No. 998,746; July 25; Sp. p. 4700; Gaz. vol. 168; p. 851.
Carlton, Cortland, assignor of one-half to C. E. Newton, Iola, Kans. Liquid-mixing apparatus. No. 1,003,872; Sept. 19; Sp. p. 3653; Gaz. vol. 170; p. 650.
Carlton, Cortland, and C. E. Newton, Iola, Kans. Liquid-mixing apparatus. No. 1,011,317; Dec. 12; Sp. p. 2081; Gaz. vol. 173; p. 357.
Carlton, Frank W. (See Keiper and Carlton.)
Carlton, James H. (See Carroll, Joseph H., assignor.)
Carlton, Robert E., Latonia, Ky., and M. W. Ryle, Balmorhea, Tex. Safety device for railway-tracks. No. 985,006; Feb. 21; Sp. p. 3741; Gaz. vol. 163; p. 661.
Carlton, William C., Carson, La., and J. H. Miner, Lumberton, Miss. Skidder-raising device. No. 986,440; Mar. 14; Sp. p. 1450; Gaz. vol. 164; p. 262.
Carlyle, Arthur R. (See Stark and Carlyle.)
Carlyle, Clyde O., Clyde, N. D. Wrench. No. 993,223; May 23; Sp. p. 5121; Gaz. vol. 166; p. 923.
Carman, Clarence A., Islip, N. Y. Vehicle. No. 992,754; May 23; Sp. p. 4118; Gaz. vol. 166; p. 762.
Carman, Ella, Kankakee, Ill. Can and opener therefor. No. 999,957; Aug. 8; Sp. p. 1534; Gaz. vol. 169; p. 289.
Carmer, James R., Wilmington, Del. Bolster construction for railway-cars. No. 984,348; Feb. 14; Sp. p. 2375; Gaz. vol. 163; p. 402.
Carmical, Luther M. (See Holmes, Eugene C., assignor.)
Carmical, Luther M., Jonesville, Va. Plotter. No. 986,358; Mar. 7; Sp. p. 1262; Gaz. vol. 164; p. 204.
Carmichael, Duncan A., *et al.* (See Mead, John W., assignor.)
Carmichael, Dwight B., Chicago, Ill. Sparking gas-lighter. No. 997,489; July 11; Sp. p. 1846; Gaz. vol. 168; p. 333.
Carmichael, Harry E. (See Rees and Carmichael.)
Carmichael, Peter P., Dahlonega, Ga. Aerodrome. No. 1,009,048; Nov. 21; Sp. p. 3170; Gaz. vol. 172; p. 562.
Carmichael, Ray, and W. Schaibley, Indianapolis, Ind. Gas-engine. No. 1,010,583; Dec. 5; Sp. p. 408; Gaz. vol. 173; p. 64.
Carmichael, Thomas, deceased, Carnegie, Pa.; F. B. Bradley, assignee by mesne assignments, Chicago, Ill. Guard-rail. (Reissue.) No. 13,218; Mar. 21; Sp. p. 4060; Gaz. vol. 164; p. 719.
Carmody, Michael B., Columbus, Ohio. Vehicle-wheel tire. No. 993,957; May 30; Sp. p. 6694; Gaz. vol. 166; p. 1204.
Carmody, Thomas. (See Kenne, Carmody, and Swanson.)
Carnagey, Walker H. (See Meadows, Perry L., assignor.)
Carnagy, Alfred D., assignor to John A. Roebling's Sons Company, Trenton, N. J. Torpedo-net. No. 1,010,856; Dec. 5; Sp. p. 1026; Gaz. vol. 173; p. 159.
Carnagy, Alfred D., assignor to John A. Roebling's Sons Company, Trenton, N. J. Torpedo-net. No. 1,010,857; Dec. 5; Sp. p. 1026; Gaz. vol. 173; p. 160.
Carnagy, Alfred D., assignor to John A. Roebling's Sons Company, Trenton, N. J. Torpedo-net. No. 1,010,858; Dec. 5; Sp. p. 1027; Gaz. vol. 173; p. 160.
Carnahan, Robert B., Jr., Middletown, Ohio, assignor to The International Metal Products Company, Newark, N. J. Iron manufacture. No. 986,359; Mar. 7; Sp. p. 1266; Gaz. vol. 164; p. 204.
Carnahan, Robert B., Jr., Middletown, Ohio, assignor to The International Metal Products Company, Newark, N. J. Iron manufacture. No. 987,549; Mar. 21; Sp. p. 3754; Gaz. vol. 164; p. 671.
Carnahan, Robert B., Jr., Middletown, Ohio, assignor to The International Metal Products Company, Newark, N. J. Ingot. No. 987,857; Mar. 28; Sp. p. 4430; Gaz. vol. 164; p. 806.
Carnegie, Alfred Q. (See Parsons and Carnegie.)
Carnegie Steel Company. (See Bowman, Lee H., assignor.)
Carnegie Steel Company. (See Wales, Samuel S., assignor.)
Carnell, William C., Philadelphia, Pa. Insecticide. No. 997,601; July 11; Sp. p. 2075; Gaz. vol. 168; p. 371.
Carnes Artificial Limb Company. (See Carnes, William T., assignor.)
Carnes, William T., assignor to Carnes Artificial Limb Company, Kansas City, Mo. Artificial arm and hand. No. 999,484; Aug. 1; Sp. p. 569; Gaz. vol. 169; p. 100.
Carney, Francis M., Norton, Kans. Attachment for end-gates. No. 983,121; Jan. 31; Sp. p. 6462; Gaz. vol. 162; p. 1123.
Carney, Frank, assignor of one-half to W. R. Watterson, Pittsburg, Pa. Toy fence. No. 1,002,641; Sept. 5; Sp. p. 1024; Gaz. vol. 170; p. 153.
Carney, Giles, Paris, Ill. Hay-rack. No. 988,173; Mar. 28; Sp. p. 5143; Gaz. vol. 164; p. 912.
Carney, Harry, Portland, Oreg. Bass-drum heel-pedal. No. 980,488; Jan. 3; Sp. p. 677; Gaz. vol. 162; p. 109.
Carney, John. (See Boldry, Rufus, assignor.)
Carney, John E., Montgomery, Ala. Gas-tester. No. 986,685; Mar. 14; Sp. p. 1969; Gaz. vol. 164; p. 347.
Carney, Nora L., Chicago, Ill. Combined chair, platform, and receptacle. No. 986,686; Mar. 14; Sp. p. 1970; Gaz. vol. 164; p. 347.
Carnot, John, New York, N. Y. Receptacle for cuspidors. No. 993,958; May 30; Sp. p. 6696; Gaz. vol. 166; p. 1205.
Carnovsky, Byron H., assignor of one-half to C. Schulte, Detroit, Mich. Extensible table. No. 986,417; Mar. 7; Sp. p. 1389; Gaz. vol. 164; p. 224.
Carnovsky, Byron H., assignor of one-half to C. Schulte, Detroit, Mich. Extensible table. No. 1,012,519; Dec. 19; Sp. p. 4692; Gaz. vol. 173; p. 806.
Carns, William T., and T. L. Brown, Red Jacket, W. Va. Section breaker and insulator. No. 980,200; Jan. 3; Sp. p. 41; Gaz. vol. 162; p. 10.
Carnt, Edwin C. (See Rosenthal and Carnt.)
Cáro, Leo, Hanover, Germany. Pendulum apparatus for hygienic gymnastics. No. 1,007,526; Oct. 31; Sp. p. 6538; Gaz. vol. 171; p. 1182.
Caro, Nikodem, Berlin, and T. E. Scheele, Emmerich, Germany. Ammonium-phosphate fertilizer. No. 1,001,350; Aug. 22; Sp. p. 4633; Gaz. vol. 169; p. 837.
Carolan, Patrick, Cleveland, Ohio. Insulating device for electric cables. No. 1,011,118; Dec. 5; Sp. p. 1577; Gaz. vol. 173; p. 250.
Carolin, Charles W., assignor to Enterprise Foundry Co., Detroit, Mich. Apparatus for cleaning castings and the like. No. 999,485; Aug. 1; Sp. p. 574; Gaz. vol. 169; p. 100.
Carolina Banding Machine Company. (See Briggs, William C., assignor.)
Carothers, Charles. (See Jones and Carothers.)
Carpenter, Adam, Tacoma, Wash. Electric heater. No. 996,454; June 27; Sp. p. 5198; Gaz. vol. 167; p. 911.
Carpenter, Adam, Tacoma, Wash. Time-controlled mechanism. No. 1,003,335; Sept. 12; Sp. p. 2517; Gaz. vol. 170; p. 433.
Carpenter, Adam, Tacoma, Wash. Regulator for heaters. No. 1,012,596; Dec. 26; Sp. p. 4871; Gaz. vol. 173; p. 878.
Carpenter, Arthur H., administrator. (See Carpenter, Franklin R. and A. H.)
Carpenter, Bertha A., *et al.* (See Stanley, Joseph, assignor.)
Carpenter, Chalmer, Pittsburg, Pa. Wheel. No. 986,906; Mar. 14; Sp. p. 2444; Gaz. vol. 164; p. 422.
Carpenter, Charles E., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Starting device. No. 981,612; Jan. 17; Sp. p. 3231; Gaz. vol. 162; p. 549.
Carpenter, Charles E., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controlling device. No. 983,976; Feb. 14; Sp. p. 1577; Gaz. vol. 163; p. 275.
Carpenter, Charles E., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Switch. No. 985,509; Feb. 28; Sp. p. 4903; Gaz. vol. 163; p. 869.
Carpenter, Charles E., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling device. No. 985,510; Feb. 28; Sp. p. 4906; Gaz. vol. 163; p. 870.
Carpenter, Charles E., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Switch. No. 996,973; July 4; Sp. p. 782; Gaz. vol. 168; p. 128.
Carpenter, Charles E., assignor of one-half to C. A. Stafford, Chicago, Ill. Razor-stropper. No. 1,011,740; Dec. 12; Sp. p. 3021; Gaz. vol. 173; p. 504.
Carpenter, Clifford C., Seattle, Wash. Electric-light shade. No. 981,531; Jan. 10; Sp. p. 3062; Gaz. vol. 162; p. 499.

Alphabetical list of patentees—Continued.

Carpenter, Clifford C., Tacoma, Wash. Fly-trap. No. 992,158; May 16; Sp. p. 2823; Gaz. vol. 166; p. 525.
Carpenter, Eugene, Newton, Mass. Refrigerated counter. No. 1,011,407; Dec. 12; Sp. p. 2260; Gaz. vol. 173; p. 385.
Carpenter, Eugene, Newton, and F. M. Kimball, Somerville, Mass., assignors to The Automatic Refrigerating Company, Jersey City, N. J. Automatic controlling mechanism for refrigerating systems. No. 981,840; Jan. 17; Sp. p. 3711; Gaz. vol. 162; p. 628.
Carpenter, Eugene, Newton, and F. M. Kimball, Somerville, Mass., assignors to The Automatic Refrigerating Company, Jersey City, N. J. Automatic controlling mechanism for refrigerating systems. No. 982,794; Jan. 31; Sp. p. 5745; Gaz. vol. 162; p. 1013.
Carpenter, Francis W., Greenwich, Conn. Toy. No. 981,977; Jan. 17; Sp. p. 4046; Gaz. vol. 162; p. 675.
Carpenter, Franklin R., deceased, and A. H. Carpenter, Denver, Colo.; A. H. Carpenter, administrator, assignor of one-half to K. Thomas, New York, N. Y. Treating ores. No. 1,006,355; Oct. 17; Sp. p. 3937; Gaz. vol. 171; p. 688.
Carpenter, Friend B., E. D. Swartley, and W. A. Derstine, Sellersville, Pa. Overhead carrier. No. 1,007,267; Oct. 31; Sp. p. 5984; Gaz. vol. 171; p. 1092.
Carpenter, Harold N., Woodford, Vt. Fountain-pen filler. No. 983,348; Feb. 7; Sp. p. 188; Gaz. vol. 163; p. 33.
Carpenter, James A., Ouaway, Mich. Swinging gate. No. 1,012,060; Dec. 19; Sp. p. 3745; Gaz. vol. 173; p. 650.
Carpenter, John B., administrator. (See Wilkin, Theodore S.)
Carpenter, John B., special administrator. (See Wilkin, Theodore S.)
Carpenter, John B., assignor of one-half to W. J. Bush, Colquitt, Ga. Transplanter. No. 982,575; Jan. 24; Sp. p. 5278; Gaz. vol. 162; p. 911.
Carpenter, John C., Houston Heights, Tex. Ignition-regulator. No. 1,004,364; Sept. 26; Sp. p. 4786; Gaz. vol. 170; p. 846.
Carpenter, Lewis A., and R. Middleton, Revere, Mass. Pipe-hanger. No. 992,338; May 16; Sp. p. 3263; Gaz. vol. 166; p. 588.
Carpenter, Lewis A., and R. Middleton, Revere, Mass. Sprinkling device. No. 998,232; July 18; Sp. p. 3548; Gaz. vol. 168; p. 636.
Carpenter, Myron J., La Grange, Ill. Telegraph system. No. 1,007,527; Oct. 31; Sp. p. 6541; Gaz. vol. 171; p. 1183.
Carpenter, William H., Chicago, Ill. Chair-back. No. 1,011,026; Dec. 5; Sp. p. 1367; Gaz. vol. 173; p. 218.
Carper, Albert A., assignor to The Crown Cork & Seal Co., Baltimore, Md. Bottling-machine. No. 1,012,984; Dec. 26; Sp. p. 5771; Gaz. vol. 173; p. 1011.
Carr, Alexander E., Kingston-upon-Hull, England. Adjustable plate for fixing small valve-reseating machines on large valve-cases. No. 981,747; Jan. 17; Sp. p. 3499; Gaz. vol. 162; p. 593.
Carr, Charles B., St. Johnsbury, Vt. Height-measuring attachment for scales. No. 1,001,814; Aug. 29; Sp. p. 5586; Gaz. vol. 169; p. 1024.
Carr, Charles J., assignor of one-half to H. G. Tremmel, Cleveland, Ohio. Tool-securing means. No. 995,055; June 13; Sp. p. 2118; Gaz. vol. 167; p. 367.
Carr & Company. (See Carr, William T., assignor.)
Carr, Dox W., assignor to The Greeley Manufacturing Company, Greeley, Colo. Dump-bed for vehicles. No. 980,922; Jan. 10; Sp. p. 1655; Gaz. vol. 162; p. 286.
Carr, Elmer E., Chicago, Ill. Steam-boiler furnace. No. 1,007,528; Oct. 31; Sp. p. 6543; Gaz. vol. 171; p. 1183.
Carr, Emory M., Newcastle, Ind. Pump-governor. No. 984,193; Feb. 14; Sp. p. 2022; Gaz. vol. 163; p. 347.
Carr Fastener Company. (See England, Arthur E., assignor.)
Carr, Francis J. (See Martin, William J., assignor.)
Carr, Fred S., *et al.* (See England, Arthur E., assignor.)
Carr, Henry E., assignor of one-half to C. Snapp, Clairton, Pa. Oar-lock. No. 997,236; July 4; Sp. p. 1344; Gaz. vol. 168; p. 219.
Carr, Howard G., Hoopeston, Ill. Gearing. No. 1,005,101; Oct. 3; Sp. p. 1129; Gaz. vol. 171; p. 191.
Carr, James C., Doran, Ill. Window-cleaning device. No. 1,007,641; Oct. 31; Sp. p. 6789; Gaz. vol. 171; p. 1221.
Carr, John V. (See Waller and Carr.)
Carr, Joseph S., and H. C. Murphy, Star Junction, Pa. Auxiliary pedal. No. 1,007,063; Oct. 31; Sp. p. 5512; Gaz. vol. 171; p. 1018.
Carr, Laurence, Oakland, Cal. Plow. No. 982,935; Jan. 31; Sp. p. 6056; Gaz. vol. 162; p. 1060.
Carr, Luther L., Chalmers, Ind. Folding hay-knife. No. 1,007,529; Oct. 31; Sp. p. 6545; Gaz. vol. 171; p. 1183.
Carr, Ora C., Lansing, Mich. Electric low-level signal for gasolene-tanks. No. 988,859; Apr. 4; Sp. p. 1200; Gaz. vol. 165; p. 192.
Carr, Uhel U., Pittsburgh, assignor of one-half to C. Karral, Horning, Pa. Lubricator. No. 1,006,059, Oct. 17; Sp. p. 3259; Gaz. vol. 171; p. 583.
Carr, Walter E., Telluride, Colo. Drill. No. 992,847; May 23; Sp. p. 4318; Gaz. vol. 166; p. 795.
Carr, William C., Buffalo, N. Y. Weighing-scale. No. 1,006,464; Oct. 24; Sp. p. 4195; Gaz. vol. 171; p. 755.
Carr, William T., assignor to Carr & Company, Limited, Carlisle, England. Machine for the manufacture of filled biscuits and the like. No. 1,006,530; Oct. 24; Sp. p. 4349; Gaz. vol. 171; p. 780.
Carragher, Henry N., Fall River, Mass. Pneumatic tire for wheels. No. 1,007,064; Oct. 31; Sp. p. 5513; Gaz. vol. 171; p. 1018.
Carrell, Wilber A., Bellevue, assignor to H. J. Heinz Company, Pittsburg, Pa. Sterilizing canned articles. No. 999,007; July 25; Sp. p. 5290; Gaz. vol. 168; p. 942.
Carreras, Luis B. G., Morovis, Porto Rico. Coffee-tablet. No. 1,002,137; Aug. 29; Sp. p. 6253; Gaz. vol. 169; p. 1131.
Carreras, Ramon C., Barcelona, Spain. Safety-razor. No. 1,000,235; Aug. 8; Sp. p. 2162; Gaz. vol. 169; p. 385.
Carrick, James T., deceased, Johannesburg, Transvaal; E. S. Hutchinson and R. G. Ralston, executors. Blackening browned ferro-ferric hydrate. No. 984,075; Feb. 14; Sp. p. 1798; Gaz. vol. 163; p. 309.
Carrick, James T., deceased, Johannesburg, Transvaal; E. S. Hutchinson and R. G. Ralston, executors, assignors to J. L. Cameron, Slangspruit, Foxhill, Natal, executor of B. S. Pattison. Preparation of iron compounds. No. 997,237; July 4; Sp. p. 1345; Gaz. vol. 168; p. 220.
Carrick, Thomas, and W. A. Baisley, San Francisco, Cal. Wheel-flange oiler. No. 988,545; Apr. 4; Sp. p. 541; Gaz. vol. 165; p. 87.
Carrigan, Henry J., Buffalo, N. Y., assignor to Auto Safety Specialty Company. Electric switch. No. 996,615; July 4; Sp. p. 40; Gaz. vol. 168; p. 8.
Carrington, Henry P., New York, N. Y. Lubricant-container. No. 982,349; Jan. 24; Sp. p. 4807; Gaz. vol. 162; p. 833.
Carroll, Alexander H., Philadelphia, Pa. Street and station indicator. No. 1,008,696; Nov. 14; Sp. p. 2415; Gaz. vol. 172; p. 408.
Carroll, Charles W., Kola, Miss. Valve for air-brake systems. No. 1,011,318; Dec. 12; Sp. p. 2085; Gaz. vol. 173; p. 357.
Carroll, Eason H., Clanton, Ala. Vehicle-brake. No. 992,848; May 23; Sp. p. 4321; Gaz. vol. 166; p. 796.
Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Wire-drawing machine. No. 1,000,492; Aug. 15; Sp. p. 2734; Gaz. vol. 169; p. 506.
Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Clutch. No. 1,007,335; Oct. 31; Sp. p. 6123; Gaz. vol. 171; p. 1117.
Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Wire-drawing block. No. 1,008,950; Nov. 14; Sp. p. 2950; Gaz. vol. 172; p. 492.
Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Guide-box for rolling-mills. No. 1,010,584; Dec. 5; Sp. p. 410; Gaz. vol. 173; p. 65.
Carroll, Frank, El Paso, Tex. Lemon-squeezer. No. 986,800; Mar. 14; Sp. p. 2215; Gaz. vol. 164; p. 385.
Carroll, George B., Red Oak, Iowa. Spigot. No. 993,959; May 30; Sp. p. 6697; Gaz. vol. 166; p. 1205.
Carroll, Houston M., assignor of one-half to J. P. Oldham, San Antonio, Tex. Attachment for automobiles. No. 981,914; Jan. 17; Sp. p. 3891; Gaz. vol. 162; p. 653.
Carroll, J. Bruce. (See Coates, Edmond H., assignor.)
Carroll, James A., Amos, W. Va. Revolving clothes-line and merry-go-round. No. 1,005,597; Oct. 10; Sp. p. 2271; Gaz. vol. 171; p. 391.
Carroll, James T., Jr., Long Island City, N. Y. Button-making machinery. No. 998,072; July 18; Sp. p. 3188; Gaz. vol. 168; p. 579.
Carroll, Joseph H., assignor of one-half to J. H. Carlton, Stockton, Cal. Rotary engine. No. 993,960; May 30; Sp. p. 6699; Gaz. vol. 166; p. 1205.
Carroll, Lawrence M., Manchester, N. H. Hollow shoe-form. No. 985,393; Feb. 28; Sp. p. 4616; Gaz. vol. 163; p. 828.
Carroll, Lima S., Dubuque, Iowa. Demonstration-garment. No. 996,210; June 27; Sp. p. 4638; Gaz. vol. 167; p. 827.
Carroll, Louis W., Anamosa, Iowa. Automatic cut-out for aerial telephone-lines and the like. No. 996,701; July 4; Sp. p. 211; Gaz. vol. 168; p. 36.
Carroll, Martin, Kansas City, Mo. Mold. No. 991,606; May 9; Sp. p. 1681; Gaz. vol. 166; p. 308.
Carroll, Michael J. (See Millea and Carroll.)
Carroll, Morris B., Schenectady, N. Y., assignor to General Electric Company. Valve-control system. No. 991,950; May 9; Sp. p. 2388; Gaz. vol. 166; p. 424.
Carroll, Morris B., Schenectady, N. Y., assignor to General Electric Company. Governing mechanism for low-pressure turbines. No. 991,951; May 9; Sp. p. 2390; Gaz. vol. 166; p. 425.
Carroll, Osman L., Kevil, Ky. Umbrella. No. 1,006,531; Oct. 24; Sp. p. 4352; Gaz. vol. 171; p. 780.
Carroll, Patrick, Jr., Bunker Hill, Ill. Automatic land-marker. No. 997,114; July 4; Sp. p. 1090; Gaz. vol. 168; p. 177.
Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register and recorder. No. 980,201; Jan. 3; Sp. p. 44; Gaz. vol. 162; p. 10.

Alphabetical list of patentees—Continued.

Carroll, Thomas, assignor to The National Cash Register Company, Dayton, Ohio. Operating mechanism for cash-registers. No. 982,936; Jan. 31; Sp. p. 6057; Gaz. vol. 162; p. 1060.
Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,006,356; Oct. 17; Sp. p. 3938; Gaz. vol. 171; p. 688.
Carroll, Thomas F., Eau Claire, Wis. Saw-swage. No. 983,427; Feb. 7; Sp. p. 357; Gaz. vol. 163; p. 60.
Carroll, Thomas F., Eau Claire, Wis. Saw-tooth shaper. No. 997,040; July 4; Sp. p. 956; Gaz. vol. 168; p. 152.
Carroll, William R., Roanoke, Va., assignor of one-half to B. V. Maxwell, Washington, D. C. Support for draw-cut-shaper slides. No. 1,002,805; Sept. 5; Sp. p. 1378; Gaz. vol. 170; p. 209.
Carroll, William S., and J. T. Rowles, Bellaire, Ohio. Vehicle-wheel. No. 986,687; Mar. 14; Sp. p. 1971; Gaz. vol. 164; p. 347.
Carron, Arthur L., Binghamton, N. Y. Electric-heated glove. No. 1,011,574; Dec. 12; Sp. p. 2666; Gaz. vol. 173; p. 448.
Carruthers, James, assignor of one-half to J. Sampere, New York, N. Y. Piano-player. No. 1,008,009; Nov. 7; Sp. p. 789; Gaz. vol. 172; p. 125.
Carson, A. M. (See Hyman, Henry F., assignor.)
Carson, Albert A. (See Russell and Carson.)
Carson, Charles W., St. Joseph, Mo. Cutting apparatus. No. 984,349; Feb. 14; Sp. p. 2377; Gaz. vol. 163; p. 402.
Carson, Clarence. (See Dyott and Carson.)
Carson, Edward A. F., San Francisco, Cal. Latch. No. 997,490; July 11; Sp. p. 1847; Gaz. vol. 168; p. 333.
Carson, George C., San Francisco, Cal., assignor to Universal Sanitary Reduction and Power Company. Apparatus for manufacturing producer-gas. No. 981,061; Jan. 10; Sp. p. 2040; Gaz. vol. 162; p. 335.
Carson, Oswald B., and H. H. Styll, assignors to American Optical Company, Southbridge, Mass. Eyeglasses. No. 1,008,240; Nov. 7; Sp. p. 1280; Gaz. vol. 172; p. 209.
Carson, Robert N., San Francisco, Cal. Glove-finger tip and seam protecting device. No. 1,005,511; Oct. 10; Sp. p. 2048; Gaz. vol. 171; p. 360.
Carson, Robert N., San Francisco, Cal. Glove-seam-protecting device. No. 1,005,512; Oct. 10; Sp. p. 2049; Gaz. vol. 171; p. 360.
Carson, Walter, Princeton, N. J. Hay-binder. No. 992,642; May 16; Sp. p. 3890; Gaz. vol. 166; p. 694.
Carssow, Felix H., Camden, N. J. Measuring and recording instrument. No. 992,110; May 9; Sp. p. 2679; Gaz. vol. 166; p. 477.
Carswell, David, St. Joseph, Mo. Fence-post clamp. No. 996,211; June 27; Sp. p. 4639; Gaz. vol. 167; p. 828.
Carter, Byron J., assignor to Motor Car Co., Detroit, Mich. Frictional transmission mechanism. No. 983,349; Feb. 7; Sp. p. 190; Gaz. vol. 163; p. 34.
Carter, Charles H., Farmers Fork, Va. Wood-skinning machine. No. 988,860; Apr. 4; Sp. p. 1202; Gaz. vol. 165; p. 192.
Carter, Charles L., Marion, Ind. Sign. No. 1,009,893; Nov. 28; Sp. p. 4979; Gaz. vol. 172; p. 899.
Carter, Charles P., Kingston, N. Y., assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-reproducer. No. 991,424; May 2; Sp. p. 1267; Gaz. vol. 166; p. 212.
Carter, Charlie, and S. Miller, Bone Gap, Ill. Block-mold. No. 986,266; Mar. 7; Sp. p. 1070; Gaz. vol. 164; p. 171.
Carter, Clayton O., Huntington, W. Va. Fire-engine-house door-releaser. No. 985,142; Feb. 28; Sp. p. 4041; Gaz. vol. 163; p. 743.
Carter-Crume Co., The. (See Bengough, James, assignor.)
Carter-Crume Co., The. (See Bottle, Edward K., assignor.)
Carter-Crume Co. (See O'Hara and Gaynor, assignors.)
Carter-Crume Co., The. (See Pringle, William A., assignor.)
Carter-Crume Company, The. (See Klein, Josef, assignor.)
Carter-Crume Company, The. (See Wilson and Bengough, assignors.)
Carter, Edward D., Houston, Tex. Automatic sack filling and weighing machine. No. 1,007,848; Nov. 7; Sp. p. 470; Gaz. vol. 172; p. 70.
Carter, Edward D., Dallas, Tex. Automatic weighing-scale. No. 1,011,575; Dec. 12; Sp. p. 2668; Gaz. vol. 173; p. 448.
Carter, Edward V., Huntington, W. Va. Runway for stairways. No. 981,613; Jan. 17; Sp. p. 3235; Gaz. vol. 162; p. 549.
Carter, Emory J., assignor to The Simple Account Sales-book Company, Fremont, Ohio. Cabinet for loose-leaf account-slips. No. 1,002,642; Sept. 5; Sp. p. 1025; Gaz. vol. 170; p. 153.
Carter, Ernest A. (See Caton and Carter.)
Carter, Ezra W., Cohoes, assignor of one-half to C. F. Polk, Troy, N. Y. Bottle-filling attachment for bib-faucets. No. 987,550; Mar. 21; Sp. p. 3755; Gaz. vol. 164; p. 671.
Carter, Ezra W., assignor of one-half to J. Breault, Cohoes, N. Y. Drawers. No. 1,006,432; Oct. 17; Sp. p. 4102; Gaz. vol. 171; p. 715.
Carter, Francis A., Chicago, Ill. Artificial tooth. No. 998,600; July 25; Sp. p. 4350; Gaz. vol. 168; p. 798.
Carter, James E., assignor of one-half to R. M. Drake, Reno, Nev. Pick. No. 1,002,643; Sept. 5; Sp. p. 1027; Gaz. vol. 170; p. 154.
Carter, James F., Cedar Hill, Tex. Cotton-chopper. No. 989,115; Apr. 11; Sp. p. 1727; Gaz. vol. 165; p. 301.
Carter, James M., assignor of one-half to M. A. Carter, Larimore, N. D. Corer, parer, and slicer. No. 983,603; Feb. 7; Sp. p. 755; Gaz. vol. 163; p. 118.
Carter, James V., Elliott, S. C. Fertilizer mixer and distributer. No. 999,297; Aug. 1; Sp. p. 200; Gaz. vol. 169; p. 37.
Carter, James W. (See Ruark, William, assignor.)
Carter, John D., Lawton, Okla. Water-supply system for passenger-cars. No. 1,009,279; Nov. 21; Sp. p. 3704; Gaz. vol. 172; p. 644.
Carter, John M., assignor of one-half to A. C. Henry, Memphis, Tenn. Automatic retainer for air-brakes. No. 996,748; July 4; Sp. p. 294; Gaz. vol. 168; p. 51.
Carter, John R., Augusta, Ky., assignor to E. H. Huenefeld, Cincinnati, Ohio. Washing-machine. No. 991,952; May 9; Sp. p. 2393; Gaz. vol. 166; p. 425.
Carter, John W., Brooklyn, N. Y. Protective device for cooking utensils. No. 1,004,146; Sept. 26; Sp. p. 4363; Gaz. vol. 170; p. 775.
Carter, John W., Wilmington, Del. Rotary harrow. No. 1,012,810; Dec. 26; Sp. p. 5355; Gaz. vol. 173; p. 953.
Carter, Lionel A., St. Louis, Mo., assignor to O. H. Hyde, trustee. Toy flying-machine. No. 1,010,585; Dec. 5; Sp. p. 412; Gaz. vol. 173; p. 65.
Carter, Louis A., Oakland, and W. J. Haldan, Berkeley, assignors of one-third to E. Allen, Mill Valley, Cal. Eraser attachment for type-writing machines. No. 989,230; Apr. 11; Sp. p. 1978; Gaz. vol. 165; p. 340.
Carter, Martin J., St. Louis, Mo. Sash-lock. No. 995,429; June 13; Sp. p. 2916; Gaz. vol. 167; p. 492.
Carter, Matthew O., Travellers Rest, S. C. Railway-rail joint. No. 992,159; May 16; Sp. p. 2823; Gaz. vol. 166; p. 525.
Carter, Maurice A. (See Carter, James M., assignor.)
Carter, Redden O., Glory, Ga. Safe. No. 1,011,027; Dec. 5; Sp. p. 1368; Gaz. vol. 173; p. 218.
Carter, Richard B., assignor to The Perfection Harness and Tug Buckle Company, Blair, Nebr. Harness-buckle. No. 988,078; Mar. 28; Sp. p. 4975; Gaz. vol. 164; p. 882.
Carter, Richard T., Carlton, Victoria, Australia. Concentrator and amalgamator. No. 1,006,433; Oct. 17; Sp. p. 4103; Gaz. vol. 171; p. 715.
Carter, Robert A., Jr., New York, N. Y. Volatilizer apparatus. No. 1,003,702; Sept. 19; Sp. p. 3313; Gaz. vol. 170; p. 593.
Carter, Samuel C., Los Angeles, Cal. Transmission mechanism. No. 988,973; Apr. 11; Sp. p. 1423; Gaz. vol. 165; p. 252.
Carter, Thomas L. (See Elliott and Carter.)
Carter, Thomas L., Greenville, S. C. Fertilizer-distributer and planter. No. 1,004,365; Sept. 26; Sp. p. 4790; Gaz. vol. 170; p. 846.
Carter, Walter T., Los Angeles, Cal. Change-speed gearing. No. 985,511; Feb. 28; Sp. p. 4909; Gaz. vol. 163; p. 870.
Carter, William C., St. Louis, Mo. Carbureter. No. 1,010,116; Nov. 28; Sp. p. 5444; Gaz. vol. 172; p. 976.
Carter's Ink Company, The. (See Auchu, Alvah G., assignor.)
Cartwright Automatic Press Company, The. (See Jennings, Emerson P., Jr., assignor.)
Cartwright, James H. (See Howard, Hasting P., assignor.)
Cartwright, Lester O., assignor of one-half to C. M. Williams, Springfield, Ill. Churn-dasher. No. 1,011,883; Dec. 12; Sp. p. 3325; Gaz. vol. 173; p. 553.
Cartwright, Zachariah, Ilford, England. Obtaining solutions or quasi solutions of certain metallic oxids. No. 988,692; Apr. 4; Sp. p. 852; Gaz. vol. 165; p. 138.
Carty, Harry B., Riegelsville, Pa. Hat-retainer. No. 997,115; July 4; Sp. p. 1092; Gaz. vol. 168; p. 177.
Carver, Edwin, Indianapolis, assignor to J. E. Owen and H. L. McNaughton, North Vernon, Ind. Insulator pin or bracket machine. No. 997,269; July 11; Sp. p. 1416; Gaz. vol. 168; p. 260.
Carver, George W., New York, N. Y. Power-feed lubricator. No. 997,964; July 18; Sp. p. 2944; Gaz. vol. 168; p. 540.
Carver, Harry, Fontanelle, Iowa. Display-rack for scythes. No. 983,203; Jan. 31; Sp. p. 6601; Gaz. vol. 162; p. 1149.
Carver, Thomas A. B., assignor to Textile Appliances Limited, Glasgow, Scotland. Appliance for supporting devices. No. 1,001,351; Aug. 22; Sp. p. 4634; Gaz. vol. 169; p. 837.
Cary, Elmer A., Omaha, Nebr. Corner-piece for screen-frames. No. 987,046; Mar. 14; Sp. p. 2701; Gaz. vol. 164; p. 467.
Cary, Isaac A., Brooklyn, assignor to American Pedal Co., New York, N. Y. Pedal-grip. No. 1,001,504; Aug. 22; Sp. p. 4913; Gaz. vol. 169; p. 888.
Cary, James H. (See Palmer, Roderick M., assignor.)

Cary Manufacturing Co. (See Cary, Spencer C., assignor.)
Cary, Spencer C., assignor to Cary Manufacturing Co., New York, N. Y. Metallic box-strap. No. 981,532; Jan. 10; Sp. p. 3063; Gaz. vol. 162; p. 500.
Casagrande, John, assignor of one-half to H. J. Gammeter, Denver, Colo. Flue-cutter. No. 996,310; June 27; Sp. p. 4872; Gaz. vol. 167; p. 859.
Casanova, Henry J., Chicago, Ill. Flying-machine. No. 980,489; Jan. 3; Sp. p. 679; Gaz. vol. 162; p. 110.
Casanova, Henry J., Chicago, Ill. Frame construction. No. 995,437; June 20; Sp. p. 2928; Gaz. vol. 167; p. 523.
Casaretti, Alfredo, Brooklyn, N. Y. Check-distributing device. No. 997,902; July 11; Sp. p. 2792; Gaz. vol. 168; p. 477.
Casazza, August, Hoboken, N. J. Portable magnetic drill. No. 1,006,532; Oct. 24; Sp. p. 4354; Gaz. vol. 171; p. 781.
Cascaden, Thomas, Jr., Waterloo, Iowa. Illuminating device for ovens. No. 980,598; Jan. 3; Sp. p. 910; Gaz. vol. 162; p. 147.
Case, Charles A., New York, N. Y. Blazing twyer. No. 985,394; Feb. 28; Sp. p. 4617; Gaz. vol. 163; p. 828.
Case, Charles A., New York, N. Y., assignor, by mesne assignments, to Ore Desulphurization Company. Desulfurizing apparatus for refractory ores. No. 982,243; Jan. 24; Sp. p. 4567; Gaz. vol. 162; p. 794.
Case, Charles A., New York, N. Y., assignor, by mesne assignments, to Ore Desulphurization Company. Twyer. No. 982,244; Jan. 24; Sp. p. 4573; Gaz. vol. 162; p. 795.
Case, Charles A., New York, N. Y., assignor, by mesne assignments, to Ore Desulphurization Company. Reducing and desulfurizing refractory ores. No. 982,245; Jan. 24; Sp. p. 4575; Gaz. vol. 162; p. 795.
Case, Elmer E. (See Thompson and Case.)
Case, Francis M., Cleveland, assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Detachable pipe-coupling. No. 1,005,153; Oct. 10; Sp. p. 1237; Gaz. vol. 171; p. 231.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Emergency operating means for reversing-switches. No. 982,033; Jan. 17; Sp. p. 4159; Gaz. vol. 162; p. 693.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Trolley-control system. No. 1,000,779; Aug. 15; Sp. p. 3385; Gaz. vol. 169; p. 608.
Case, Frank E., Schenectady, N. Y., assignor to General Electric Company. Device for grounding trolley-cords. No. 1,011,741; Dec. 12; Sp. p. 3024; Gaz. vol. 173; p. 505.
Case, Fred D. (See Berhorst, John C., assignor.)
Case, Homer W., assignor of one-half to C. C. Nichols, San Francisco, Cal. Railway-rail-fastening mechanism. No. 997,750; July 11; Sp. p. 2438; Gaz. vol. 168; p. 425.
Case, Willis W., Sr., Denver, Colo. Burner. No. 1,003,873; Sept. 19; Sp. p. 3656; Gaz. vol. 170; p. 650.
Casein Company of America. (See Dunham, Henry V. and A. A., assignors.)
Casey, Edward J., Springfield, Mass. Printing-press. No. 989,334; Apr. 11; Sp. p. 2214; Gaz. vol. 165; p. 376.
Casey, Samuel B., New York, N. Y. Hook-fastener. No. 995,951; June 20; Sp. p. 4049; Gaz. vol. 167; p. 704.
Casey, Thomas J. (See Ross, John C., assignor.)
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making awls. No. 997,238; July 4; Sp. p. 1347; Gaz. vol. 168; p. 220.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Reel-support. No. 1,001,815; Aug. 29; Sp. p. 5587; Gaz. vol. 169; p. 1025.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Clutch. No. 1,004,240; Sept. 26; Sp. p. 4554; Gaz. vol. 170; p. 805.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,006,533; Oct. 24; Sp. p. 4356; Gaz. vol. 171; p. 781.
Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,012,811; Dec. 26; Sp. p. 5356; Gaz. vol. 173; p. 953.
Cash, Arthur W. (See Matthews, Johnstone, and Cash.)
Cash, John W. (See Robertson and Cash.)
Cashion, James J. (See Bulger, James J., assignor.)
Casler, Benjamin G., Tonawanda, N. Y., assignor of one-half to F. W. Ritter, Jr., Washington, D. C. Mandrel for reeling ready-roofing fabrics. No. 980,406; Jan. 3; Sp. p. 469; Gaz. vol. 162; p. 81.
Casler, Herman, Canastota, N. Y. Boring-head. No. 981,062; Jan. 10; Sp. p. 2042; Gaz. vol. 162; p. 336.
Caspar, Charles J., assignor to The Pittsburg Plate Glass Company, Pittsburg, Pa. Shelf-support. No. 993,753; May 30; Sp. p. 6302; Gaz. vol. 166; p. 1136.
Caspari, Rudolf, assignor to R. Wedekind & Co., m. b. H. Uerdingen, Germany. Making granular sodium bichromate. No. 1,003,875; Sept. 19; Sp. p. 3660; Gaz. vol. 170; p. 651.
Casper, Frank L., Weiner, Ark. Sand-pump. No. 1,003,874; Sept. 19; Sp. p. 3658; Gaz. vol. 170; p. 651.
Casper, John T. (See Bille, Fred L., assignor.)
Cass, Dora, Mobile, Ala. Garment-supporter. No. 1,007,530; Oct. 31; Sp. p. 6546; Gaz. vol. 171; p. 1184.
Cass, Jacob, Manchester, England. Electric fire-alarm. No. 1,003,173; Sept. 12; Sp. p. 2181; Gaz. vol. 170; p. 374.
Cass, Thomas N. (See Miller and Cass.)
Cassady, George, Vancouver, British Columbia, Canada. Nut-lock. No. 990,106; Apr. 18; Sp. p. 3872; Gaz. vol. 165; p. 669.
Cassady, George, New Westminster, British Columbia, Canada. Fluid-pressure engine. No. 991,699; May 9; Sp. p. 1891; Gaz. vol. 166; p. 341.
Cassady, George, New Westminister, British Columbia, Canada. Power-translating mechanism. No. 1,001,816; Aug. 29; Sp. p. 5589; Gaz. vol. 169; p. 1025.
Cassel, Otto, Vienna, Austria-Hungary. Manufacturing crude-oil soap. No. 1,007,531; Oct. 31; Sp. p. 6547; Gaz. vol. 171; p. 1184.
Cassell, Oscar R., New York, N. Y. Bedstead extension. No. 990,107; Apr. 18; Sp. p. 3873; Gaz. vol. 165; p. 669.
Cassella Color Company (See Ehrlich and Benda, assignors.)
Cassella Color Company. (See Kalischer, Georg, assignor.)
Casserly, Joseph E., New York, N. Y., assignor to Ely-Norris Safe Company, Perth Amboy, N. J. Safe. No. 1,001,817; Aug. 29; Sp. p. 5590; Gaz. vol. 169; p. 1025.
Cassidy, Fred W. (See Shadell and Cassidy.)
Cassidy, James. (See Giffin, Lingley, and Cassidy.)
Cassidy, Joseph. (See Pinard, Cassidy, and Mellor.)
Cassidy, Terence. (See Giffin, Lingley, and Cassidy.)
Cassity, Isaac N., assignor of one-half to W. Wolgast, Alta Vista, Kans. Calendar. No. 994,122; June 6; Sp. p. 39; Gaz. vol. 167; p. 9.
Cast, George, assignor to The American Drill Company, Marion, Ind. Scraper for furrow-opening disks. No. 998,747; July 25; Sp. p. 4701; Gaz. vol. 168; p. 851.
Cast Steel Platform Company. (See Westlake, Charles T., assignor.)
Castelli, Francisco, Buenos Aires, Argentina. Transom-adjuster. No. 993,754; May 30; Sp. p. 6303; Gaz. vol. 166; p. 1137.
Castelli, Peter, Carney, Iowa. Automatic gate for railway-crossings. No. 1,009,222; Nov. 21; Sp. p. 3572; Gaz. vol. 172; p. 624.
Castle, James B., assignor of one-half to R. S. Moore, San Francisco, Cal. Cranking means for automobiles. No. 991,135; May 2; Sp. p. 653; Gaz. vol. 166; p. 111.
Castle, William W., East Weymouth, assignor to W. J. Carlin and D. J. Kiley, Boston, Mass. Liquid impelling or circulating device. No. 999,092; July 25; Sp. p. 5462; Gaz. vol. 168; p. 971.
Castleman, Samuel T., assignor to The Travelers' Insurance Machine Company, Louisville, Ky. Power mechanism for vending-machines. No. 1,011,576; Dec. 12; Sp. p. 2676; Gaz. vol. 173; p. 449.
Castonguay, Leger J., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Incandescent-lamp socket. No. 986,138; Mar. 7; Sp. p. 796; Gaz. vol. 164; p. 129.
Castro, Aquiles E. V., Merida, Mexico. Manufacture of alcohol. No. 996,400; June 27; Sp. p. 5068; Gaz. vol. 167; p. 892.
Castro, James T., Lanana, Tex. Log-measure. No. 991,478; May 9; Sp. p. 1389; Gaz. vol. 166; p. 262.
Caswell, Daniel G., Los Angeles, Cal. Velocipede. No. 984,648; Feb. 21; Sp. p. 3042; Gaz. vol. 163; p. 538.
Caswell, Daniel G., Los Angeles, Cal. Velocipede. No. 1,011,408; Dec. 12; Sp. p. 2261; Gaz. vol. 173; p. 386.
Caswell, Frederick K., Los Angeles, Cal., assignor to Paul Dickinson (Incorporated), Chicago, Ill. Brake-shoe machine. No. 1,003,231; Sept. 12; Sp. p. 2309; Gaz. vol. 170; p. 396.
Caswell, Lewis O. (See Caswell, Perry O., assignor.)
Caswell, Perry O., assignor of one-fourth to L. O. Caswell, Silverton, Oreg. Weed-cutter. No. 1,011,917; Dec. 19; Sp. p. 3421; Gaz. vol. 173; p. 599.
Caswell, William A., Chicago, Ill., assignor to National Dump Car Company. Dump-car. No. 988,310; Apr. 4; Sp. p. 25; Gaz. vol. 165; p. 7.
Caswell, William A., Chicago, Ill., assignor to National Dump Car Company. Dump-car. No. 990,030; Apr. 18; Sp. p. 3728; Gaz. vol. 165; p. 645.
Catalano, Peter P., Lawton Station, N. Y. Railway-switch. No. 999,093; July 25; Sp. p. 5464; Gaz. vol. 168; p. 972.
Catchings, Tom, assignor to I. Bracey, Jackson, Miss. Railway-track construction. No. 1,003,703; Sept. 19; Sp. p. 3316; Gaz. vol. 170; p. 593.
Catelain, Andre G., Chicago, Ill. Hose-clamp. No. 991,769; May 9; Sp. p. 2011; Gaz. vol. 166; p. 362.
Cater, Charles F., Pleasant City, Ohio. Gripping device. No. 1,004,366; Sept. 26; Sp. p. 4791; Gaz. vol. 170; p. 846.
Cater, Walter D., Yorktown, Va. Pocket for plumb-bobs. No. 982,476; Jan. 24; Sp. p. 5093; Gaz. vol. 162; p. 878.
Cathels, Edmund, Providence, R. I. Sealing device. No. 991,479; May 9; Sp. p. 1391; Gaz. vol. 166; p. 263.
Cather, Frank B., Grafton, W. Va. Megaphone. No. 986,139; Mar. 7; Sp. p. 797; Gaz. vol. 164; p. 129.

Alphabetical list of patentees—Continued.

Catino, Pasquale, Stamford, Conn. Life-saving-garment attachment. No. 1,006,909; Oct. 24; Sp. p. 5200; Gaz. vol. 171; p. 914.
Catlin, Abel D., Chattanooga, Tenn. Band-saw mill. No. 992,160; May 16; Sp. p. 2825; Gaz. vol. 166; p. 526.
Catlin, Abel D., Chattanooga, Tenn. Valve mechanism. No. 992,161; May 16; Sp. p. 2826; Gaz. vol. 166; p. 526.
Cato, John H., Kansas City, Mo. Attachment for gas-fixtures. No. 995,323; June 13; Sp. p. 2623; Gaz. vol. 167; p. 454.
Caton, Augustus B., and E. A. Carter, Camden, Tex. Metal tie. No. 992,643; May 16; Sp. p. 3892; Gaz. vol. 166; p. 694.
Catucci, Pliny, Newark, N. J., assignor, by mesne assignments, to Meisselbach-Catucci Manufacturing Company. Hob-grinding machine. No. 986,688; Mar. 14; Sp. p. 1973; Gaz. vol. 164; p. 348.
Catucci, Pliny, assignor to A. F. Meisselbach & Bro., Newark, N. J. Fishing-reel. No. 1,005,154; Oct. 10; Sp. p. 1240; Gaz. vol. 171; p. 232.
Cauderay, Georges E., and J. C. Chauve, Paris, France. Variable-speed power-transmission device. No. 998,277; July 18; Sp. p. 3656; Gaz. vol. 168; p. 653.
Caudy, Daniel B., and E. K. Cutlip, Holcomb, W. Va. Railway-switch. No. 1,001,618; Aug. 29; Sp. p. 5161; Gaz. vol. 169; p. 956.
Cauffman, Robert M., Centerville, Mich. Pasteurizing apparatus. No. 1,002,499; Sept. 5; Sp. p. 715; Gaz. vol. 170; p. 105.
Caulfield, James P., Baltimore, Md. Player-piano. No. 995,766; June 20; Sp. p. 3659; Gaz. vol. 167; p. 639.
Causey, Charles H. (See Hubbard and Causey.)
Cavally, Frederick L., Jr., assignor to The Williamson-Haffner Engraving Co., Denver, Colo. Fan. No. 1,000,665; Aug. 15; Sp. p. 3139; Gaz. vol. 169; p. 568.
Cavanagh, James, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Upper-creasing machine. No. 1,009,721; Nov. 28; Sp. p. 4632; Gaz. vol. 172; p. 841.
Cavanagh, John F., assignor to E. P. Lynch, Providence, R. I. Portable work-supporting rack. No. 982,477; Jan. 24; Sp. p. 5093; Gaz. vol. 162; p. 879.
Cavanagh, John F., assignor of three-fourths to The Lindsley and Allen Electric Company, Providence, R. I. Ignition device. No. 995,400; June 13; Sp. p. 2831; Gaz. vol. 167; p. 481.
Cavanagh, John F., assignor of three-fourths to Lindsley and Allen Electric Company, Providence, R. I. Ignition device. No. 1,011,884; Dec. 12; Sp. p. 3326; Gaz. vol. 173; p. 553.
Cavanagh, John F., and W. W. Bardsley, assignors to P. Newman, Providence, R. I. Measuring instrument. No. 997,648; July 11; Sp. p. 2196; Gaz. vol. 168; p. 389.
Cavanaugh, Mary T., Salt Lake City, Utah. Combination dust-catcher. No. 1,002,500; Sept. 5; Sp. p. 717; Gaz. vol. 170; p. 105.
Cavarly, Haywood P., Richmond Hill, N. Y. Buckle for white-lead manufacture. No. 999,205; Aug. 1; Sp. p. 28; Gaz. vol. 169; p. 7.
Cave, Frederick C., assignor of one-third to R. S. Adams and one-third to P. H. Rourke, Lisbon, N. D. Gearing. No. 1,011,409; Dec. 12; Sp. p. 2263; Gaz. vol. 173; p. 386.
Cave, Ulysses G., Louisville, Ky. Memorandum and recording device for use with telephones. No. 995,222; June 13; Sp. p. 2435; Gaz. vol. 167; p. 421.
Caven, Walter L., assignor of one-fourth to W. MacLeod, Cincinnati, Ohio. Railway-rail. No. 992,162; May 16; Sp. p. 2829; Gaz. vol. 166; p. 527.
Caveney, George, assignor to Caveney Invention Company, Oakland, Cal. Handcuff and like lock. No. 1,000,666; Aug. 15; Sp. p. 3140; Gaz. vol. 169; p. 569.
Caveney Invention Company. (See Caveney, George, assignor.)
Caviola, Frank. (See Bomblatus and Caviola.)
Cawyer, Roscoe, and J. D. Gattis, Mercury, Tex. Switch. No. 1,003,430; Sept. 19; Sp. p. 2710; Gaz. vol. 170; p. 497.
Caya, Henry, Jr. (See Leith, James, assignor.)
Caywood, Albert D., Chicago, Ill. Wall plug or socket. No. 1,000,715; Aug. 15; Sp. p. 3239; Gaz. vol. 169; p. 585.
Cebulla, Thomas, Latrobe, Pa. Lock. No. 990,225; Apr. 25; Sp. p. 4144; Gaz. vol. 165; p. 741.
Cecil, W. C., *et al.* (See Kenney, Frank, assignor.)
Cederstrom, Emil. (See Bryant and Cederstrom.)
Cedford Gas Process Company. (See Bedford and Williams, assignors.)
Ceipek, Norbert, Vienna, Austria-Hungary. Explosive. No. 988,244; Mar. 28; Sp. p. 5274; Gaz. vol. 164; p. 936.
Celfor Tool Company. (See Hanlin and Ross, assignors.)
Cement Appliances Company. (See Faller, Ernest A., assignor.)
Cement Tile Machinery Company, The. (See Stewart and Schenk, assignors.)
Centala, Frank. (See Centala, Watson and F.)
Centala, Watson and F., Metz, Mich. Prospecting device. No. 982,246; Jan. 24; Sp. p. 4578; Gaz. vol. 162; p. 796.
Centoni, Cesare, Chicago, Ill. Automatic alarm. No. 1,012,812; Dec. 26; Sp. p. 5374; Gaz. vol. 173; p. 954.
Central Brass & Stamping Co. (See Nelson, Lewen R., assignor.)
Central Foundry Company. (See Fitzsimmons, James J., assignor.)
Central Iron Works. (See Sigle, Charles E., assignor.)
Central Machine & Foundry Co. (See Erlewine, Henry L., assignor.)
Central Manufacturing Company. (See Nichols, Andrew P., assignor.)
Central Scientific Company. (See Aronson, Frank, assignor.)
Central Stamping Co., The. (See Kimberley, Arthur N., assignor.)
Central Trust Company of New York, trustee. (See Price, Edgar F., assignor.)
Cepeda, Josefa E., Helotes, Tex. Cover for kettles and the like. No. 993,505; May 30; Sp. p. 5743; Gaz. vol. 166; p. 1049.
Ceramic Machinery Company, The. (See Goldsmith, Frederick E., assignor.)
Ceranek, Albert, Audubon, Iowa. Hydrant. No. 987,614; Mar. 21; Sp. p. 3888; Gaz. vol. 164; p. 692.
Cerbo, Ferdinando, Providence, R. I. Urethroscope. No. 1,003,232; Sept. 12; Sp. p. 2314; Gaz. vol. 170; p. 397.
Cevasco, Cavagnaro & Ambrette. (See Ambrette, Conrad, assignor.)
Chadborn, Frederic C., Newburgh, N. Y. Burner. No. 991,197; May 2; Sp. p. 789; Gaz. vol. 166; p. 134.
Chadbourne, Edward M., San Francisco, Cal. Concrete roadway. No. 982,247; Jan. 24; Sp. p. 4581; Gaz. vol. 162; p. 796.
Chadbourne, Edward M., San Francisco, Cal. Concrete roadway. No. 994,092; May 30; Sp. p. 6971; Gaz. vol. 166; p. 1250.
Chadeloid Chemical Company, The. (See Ellis, Carleton, assignor.)
Chadeloid Chemical Company, The. (See Enell, Otto E., assignor.)
Chadwick, Everett D., Winchester, Mass. Releasing device. No. 1,000,895; Aug. 15; Sp. p. 3609; Gaz. vol. 169; p. 649.
Chadwick, Francis C., assignor to Savage Arms Company, Utica, N. Y. Sight for firearms. No. 1,004,241; Sept. 26; Sp. p. 4559; Gaz. vol. 170; p. 806.
Chadwick, Lee S., Philadelphia, Pa. Valve mechanism. No. 1,001,352; Aug. 22; Sp. p. 4639; Gaz. vol. 169; p. 838.
Chadwick, Lee S., Pottstown, Pa. Recording means for signaling devices. No. 1,002,368; Sept. 5; Sp. p. 442; Gaz. vol. 170; p. 62.
Chadwick, Lee S., Pottstown, Pa. Record-making device. No. 1,002,369; Sept. 5; Sp. p. 448; Gaz. vol. 170; p. 62.
Chadwick, Lee S., assignor to Fairmount Engineering Works, Philadelphia, Pa. Water-jacket for internal-combustion engines. No. 995,324; June 13; Sp. p. 2624; Gaz. vol. 167; p. 455.
Chaffin, George W., Dayton, Ohio. Electric insulator. No. 998,073; July 18; Sp. p. 3197; Gaz. vol. 168; p. 579.
Chaix, Joseph C., and E. Duhé, Hahnville, La. Centrifugal attachment for sugar-driers. No. 1,004,556; Oct. 3; Sp. p. 12; Gaz. vol. 171; p. 5.
Chaleil, Paul A., Paris, France. Turbine. No. 1,012,813; Dec. 26; Sp. p. 5376; Gaz. vol. 173; p. 954.
Chalfant, Brantly, Philadelphia, Pa. Flying-machine. No. 990,424; Apr. 25; Sp. p. 4631; Gaz. vol. 165; p. 814.
Chalfant, William E. (See Indahl and Chalfant.)
Chalke, Joseph, New York, N. Y. Fresh-air-inlet device. No. 992,849; May 23; Sp. p. 4322; Gaz. vol. 166; p. 796.
Chalkley, Nettie S. (See Smith, Eugene P., assignor.)
Challet, Etienne. (See Roch and Challet.)
Challoner Company. (See Kratsch, William H., assignor.)
Challoner, John W. (See Shipley and Challoner.)
Challoner, John W., and H. T. Shipley, assignors of one-fourth to C. R. Blakely, Oshkosh, Wis. Hay and grain loader. No. 990,108; Apr. 18; Sp. p. 3874; Gaz. vol. 165; p. 669.
Chalmers-Detroit Motor Company. (See Coffin, Howard E., assignor.)
Chalmers, Harry B., Dedham, Mass. Spraying apparatus. No. 988,693; Apr. 4; Sp. p. 855; Gaz. vol. 165; p. 138.
Chalmers, John G. (See Bender, George J., assignor.)
Chalmers Motor Company, The. (See Coffin, Howard E., assignor.)
Chalmers Motor Company. (See Dunham, George W., assignor.)
Chalmers Motor Company. (See Morgan, Mathew B., assignor.)
Chalmers, Nathanael L., Newark, N. J. Lubricator. No. 983,025; Jan. 31; Sp. p. 6268; Gaz. vol. 162; p. 1090.
Chalmers, Stephen D., and H. S. Ryland, London, England. Apparatus for grinding toric lenses. No. 990,524; Apr. 25; Sp. p. 4862; Gaz. vol. 165; p. 848.
Chalupa, Harry, Iowa City, Iowa. Mechanical movement. No. 1,006,181; Oct. 17; Sp. p. 3553; Gaz. vol. 171; p. 629.
Chamberlain, Charles H., Bellefontaine, Ohio. Cover for headlights. No. 1,011,742; Dec. 12; Sp. p. 3026; Gaz. vol. 173; p. 505.

Alphabetical list of patentees—Continued.

Chamberlain, Chauncey C., Ionia, Mich. Tire-splicing mandrel. No. 1,011,155; Dec. 12; Sp. p. 1693; Gaz. vol. 173; p. 298.
Chamberlain, Eliot H., trustee. (See Ressencourt, Eugène G., assignor.)
Chamberlain, Henry V., Somerville, and A. E. Troop, Roxbury, assignors to W. Gray, Amesbury, Mass. Illuminating device. No. 1,000,580; Aug. 15; Sp. p. 2944; Gaz. vol. 169; p. 539.
Chamberlain, Wheaton R., assignor of one-fourth to C. C. Lakin and three-eighths to J. J. Ricker, Kansas City, Mo. Pump. No. 995,843; June 20; Sp. p. 3835; Gaz. vol. 167; p. 667.
Chamberlain, Wilbur L., East Hartford, Conn. Insulator-support. No. 989,231; Apr. 11; Sp. p. 1980; Gaz. vol. 165; p. 340.
Chamberlin, Charles C., Washington, Pa., assignor to Marion Machinery Foundry and Supply Company, Marion, Ind. Adjustable support for flue-cleaners. No. 1,012,327; Dec. 19; Sp. p. 4334; Gaz. vol. 173; p. 743.
Chamberlin, Charles E. (See Ackerman, Edward L., assignor.)
Chamberlin, George F. (See Newcomb, Edward C., assignor.)
Chamberlin, John, assignor of one-half to A. H. Kelsall, Suffern, N. Y. Truck for railway-cars. No. 993,755; May 30; Sp. p. 6304; Gaz. vol. 166; p. 1137.
Chamberlin Metal Weather Strip Company. (See McMahon, Josiah C., assignor.)
Chamberlin, Newton F., Libertyville, Ill. Ditching-machine. No. 1,008,114; Nov. 7; Sp. p. 1003; Gaz. vol. 172; p. 162.
Chamberlin, Paul E., U. S. Marine Corps. Aerotorpedo appliance. No. 1,004,367; Sept. 26; Sp. p. 4793; Gaz. vol. 170; p. 847.
Chamberlin, William M., Jr., Detroit, Mich. Stand for memorandum pads and calendars. No. 992,850; May 23; Sp. p. 4324; Gaz. vol. 166; p. 796.
Chambers, Albert N., assignor of one-half to J. L. Godfrey, Martin, Tenn. Preserving meats. No. 997,179; July 4; Sp. p. 1232; Gaz. vol. 168; p. 199.
Chambers, Bering, Quinlan Company. (See Hilbert, John N. J., assignor.)
Chambers Brothers Company. (See Cross, Herbert, assignor.)
Chambers Brothers Company. (See Root, Arthur, assignor.)
Chambers, Carlton H. (See Hunter and Chambers.)
Chambers, Connor C., Chicago, Ill. Railway-frog. No. 1,002,964; Sept. 12; Sp. p. 1749; Gaz. vol. 170; p. 303.
Chambers, Cyrus, Jr., deceased, Overbrook, Pa.; M. P., S. B., and J. H. Chambers, executors. Dough-mixing machine. No. 1,005,769; Oct. 10; Sp. p. 2616; Gaz. vol. 171; p. 451.
Chambers, David F., assignor to The Star Ball Retainer Company, Lancaster, Pa. End-thrust ball-bearing. No. 1,011,028; Dec. 5; Sp. p. 1370; Gaz. vol. 173; p. 218.
Chambers, David F., assignor to The Star Ball Retainer Company, Lancaster, Pa. Roller-bearing. No. 1,011,029; Dec. 5; Sp. p. 1372; Gaz. vol. 173; p. 219.
Chambers, Francis T., *et al.* (See Christensen, Anton, assignor.)
Chambers, Harry H., assignor of one-half to W. P. Hurley, Fort Collins, Colo. Drinking-cup. No. 1,007,918; Nov. 7; Sp. p. 621; Gaz. vol. 172; p. 95.
Chambers, J. Howard, *et al.*, executors. (See Chambers, Cyrus, Jr.)
Chambers, J. R., *et al.* (See Crocker, James, assignor.)
Chambers, Job I., Eddy, Okla. Mixer. No. 1,011,030; Dec. 5; Sp. p. 1374; Gaz. vol. 173; p. 219.
Chambers, John E., Shelbyville, Ind. Cook-stove. No. 986,360; Mar. 7; Sp. p. 1267; Gaz. vol. 164; p. 205.
Chambers, John S., Rocky Mount, N. C. Valve. No. 993,026; May 23; Sp. p. 4716; Gaz. vol. 166; p. 858.
Chambers, Joseph, Jr., Hillman, Me. Rail tie and brace. No. 1,000,780; Aug. 15; Sp. p. 3387; Gaz. vol. 169; p. 609.
Chambers, Mary P., *et al.*, executors. (See Chambers, Cyrus, Jr.)
Chambers, S. Bernard, *et al.*, executors. (See Chambers, Cyrus, Jr.)
Chambers, William H., assignor of one-half to A. Hamill, Baltimore, Md. Electric switch. No. 1,009,648; Nov. 21; Sp. p. 4465; Gaz. vol. 172; p. 769.
Chambers, William J., Chicago, Ill. Can. No. 1,002,965; Sept. 12; Sp. p. 1750; Gaz. vol. 170; p. 304.
Chambers, William W., Darlington, Ind. Poultry-fountain. No. 987,551; Mar. 21; Sp. p. 3757; Gaz. vol. 164; p. 671.
Chambersburg Engineering Company. (See Derbyshire and Longaker, assignors.)
Chambersburg Engineering Company. (See Longaker, Albert A., assignor.)
Chambliss, Andrew F., Xenia, Ohio. Tie. No. 999,094; July 25; Sp. p. 5466; Gaz. vol. 168; p. 972.
Champ, Joseph H., Cleveland, Ohio. Liquid-dispensing device. No. 986,361; Mar. 7; Sp. p. 1270; Gaz. vol. 164; p. 205.
Champ, Joseph H., Cleveland, Ohio. Electric switch. No. 995,767; June 20; Sp. p. 3669; Gaz. vol. 167; p. 640.
Champ, Joseph H., Cleveland, Ohio. Bottling-machine. No. 1,001,353; Aug. 22; Sp. p. 4639; Gaz. vol. 169; p. 838.
Champagne, Albert E., assignor to Sullivan Machinery Company, Claremont, N. H. Double feed-screw for channelers. No. 982,478; Jan. 24; Sp. p. 5096; Gaz. vol. 162; p. 879.
Champagne, Graziella M., Portland, Oreg. Abdominal supporter. No. 1,003,336; Sept. 12; Sp. p. 2520; Gaz. vol. 170; p. 434.
Champion, Abraham L., Los Angeles, Cal. Lawn-trimmer. No. 987,552; Mar. 21; Sp. p. 3758; Gaz. vol. 164; p. 671.
Champion Chemical Company, The. (See Myers, John E., assignor.)
Champion Igniter Company. (See Koehler, Ernest F., assignor.)
Champion Ignition Company. (See Schmidt, Albert, assignor.)
Champion, Leon, Tallmadge, Mich. Cattle-stanchion. No. 999,958; Aug. 8; Sp. p. 1536; Gaz. vol. 169; p. 290.
Champion Potato Machinery Company. (See Knoerzer, Otto, assignor.)
Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)
Champion Spark Plug Company, The. (See Robertson, James D., assignor.)
Chamrod, Frank J. (See Marshall and Chamrod.)
Chance, Henry M. and T. M., Philadelphia, Pa. Operating internal-combustion pumps and compressors. No. 1,011,410; Dec. 12; Sp. p. 2265; Gaz. vol. 173; p. 387.
Chance, Perry R. (See McLaren, John M., assignor.)
Chance, Thomas M. (See Chance, Henry M. and T. M.)
Chandlee, Grace E., Washington, D. C. Artificial flower. No. 989,693; Apr. 18; Sp. p. 3008; Gaz. vol. 165; p. 529.
Chandler, Alfred D., *et al.*, trustees. (See Ellis, Edward H., assignor.)
Chandler, Carl B., assignor to S. Savill, Canton, Ill. Hacksaw. No. 982,937; Jan. 31; Sp. p. 6062; Gaz. vol. 162; p. 1060.
Chandler, Carl B., assignor, by mesne assignments, to Canton Foundry & Heating Co., Canton, Ill. Lubricating device for wheels. No. 1,009,649; Nov. 21; Sp. p. 4467; Gaz. vol. 172; p. 770.
Chandler, Daniel L., Ayer, Mass. Manufacturing combs. No. 998,675; July 25; Sp. p. 4519; Gaz. vol. 168; p. 824.
Chandler, Edwin N., Brockton, assignor to Simplex Electric Heating Company, Boston, Mass. Electrically-heated press for leather-work. No. 984,508; Feb. 14; Sp. p. 2707; Gaz. vol. 163; p. 454.
Chandler, Edwin N., Brockton, assignor to Simplex Electric Heating Company, Boston, Mass. Edge setter and finisher. No. 984,538; Feb. 21; Sp. p. 2803; Gaz. vol. 163; p. 501.
Chandler, Edwin N., Brockton, and T. B. Lewis, Cambridge, assignors to Simplex Electric Heating Company, Boston, Mass. Electrically-heated wax-pot for shoe-sewing machines. No. 990,109; Apr. 18; Sp. p. 3876; Gaz. vol. 165; p. 670.
Chandler, Harry F., *et al.* (See Leftwich and Markle, assignors.)
Chandler, Henry E., New York, N. Y. Knife. No. 991,953; May 9; Sp. p. 2395; Gaz. vol. 166; p. 425.
Chandler, Josie B., Nelson, Va. Storm-apron support. No. 1,005,598; Oct. 10; Sp. p. 2272; Gaz. vol. 171; p. 391.
Chandler, Leonard D., North Abington, Mass. Signal for fire-sprinkler systems and the like. No. 989,335; Apr. 11; Sp. p. 2215; Gaz. vol. 165; p. 376.
Chandler, Richard. (See Autenrieth and Chandler.)
Chandonnet, Thomas J., Waubun, Minn. Spreader-bars for traction-engine hitch. No. 990,031; Apr. 18; Sp. p. 3730; Gaz. vol. 165; p. 645.
Chaney, Edward P., Moline, Ill. Sharpener for talking-machine needles. No. 1,009,894; Nov. 28; Sp. p. 4980; Gaz. vol. 172; p. 900.
Chaney, Oscar A., Rimer, Pa. Match-safe. No. 1,008,951; Nov. 14; Sp. p. 2952; Gaz. vol. 172; p. 493.
Chaninel, Edward D., and J. R. Henry, Seward, Pa. Applying calks to horseshoes. No. 1,008,785; Nov. 14; Sp. p. 2621; Gaz. vol. 172; p. 439.
Channon, William, Des Moines, Iowa. Elevator for mines. No. 1,001,818; Aug. 29; Sp. p. 5591; Gaz. vol. 169; p. 1026.
Chantland, Andrew A., Badger, Iowa. Animal-trap. No. 1,005,102; Oct. 3; Sp. p. 1133; Gaz. vol. 171; p. 191.
Chantrell Hardware & Tool Co. (See Shaaber and Acker, assignors.)
Chanudet, Louis, and G. P. Ribis, Neuilly-sur-Seine, France. Shock-absorber. No. 997,370; July 11; Sp. p. 1627; Gaz. vol. 168; p. 295.
Chaoul, Jalil, Guadalajara, Mexico. Compensation balance-wheel for watches and the like. No. 982,479; Jan. 24; Sp. p. 5099; Gaz. vol. 162; p. 879.
Chapin, Charles E., Elmhurst, Cal. Respiratory apparatus for firemen or others. No. 986,907; Mar. 14; Sp. p. 2447; Gaz. vol. 164; p. 423.
Chapin Manufacturing Company, The. (See Stevenson, Edgar M., assignor.)
Chapitel, Charles F. A., Nantes, France. Crushing and mixing machine. No. 998,840; July 25; Sp. p. 4902; Gaz. vol. 168; p. 882.
Chaplin, Orril R., assignor of one-half to R. W. Howard, Boston, Mass. Lawn-mower. No. 984,471; Feb. 14; Sp. p. 2615; Gaz. vol. 163; p. 442.

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Chapman, Charles C., Medford, Okla. Lock. No. 982,125; Jan. 17; Sp. p. 4341; Gaz. vol. 162; p. 725.
Chapman, Charles H., Winchester, Mass., assignor to Chapman Detachable Rubber Heel Company. Detachable rubber heel for boots and shoes. No. 987,047; Mar. 14; Sp. p. 2703; Gaz. vol. 164; p. 467.
Chapman, Charles H., Winchester, Mass., assignor to Lightning Hose-Coupling Company. Coupling. (Reissue.) No. 13,222; Mar. 28; Sp. p. 5386; Gaz. vol. 164; p. 952.
Chapman Detachable Rubber Heel Company. (See Chapman, Charles H., assignor.)
Chapman, Everett B., Marlboro, assignor to The Randall-Faichney Company, Boston, Mass. Case for vials, &c. No. 999,362; Aug. 1; Sp. p. 339; Gaz. vol. 169; p. 59.
Chapman, Frank F. B., Winchester, Mass. Drinking-fountain for poultry. No. 983,978; Feb. 14; Sp. p. 1582; Gaz. vol. 163; p. 275.
Chapman, Frank M., Hudson Falls, assignor of one-half to R. McWhorter and three-eighths to F. A. Bratt, Fort Edward, N. Y. Change-speed mechanism. No. 1,001,354; Aug. 22; Sp. p. 4645; Gaz. vol. 169; p. 839.
Chapman, Frank S., assignor to The National Electric Specialty Company, Toledo, Ohio. Soldering device. (Reissue.) No. 13,219; Mar. 21; Sp. p. 4061; Gaz. vol. 164; p. 719.
Chapman, Frederick, Brooklyn, N. Y. Stop-cock box, hydrant, and street-washer. No. 988,974; Apr. 11; Sp. p. 1431; Gaz. vol. 165; p. 253.
Chapman, George, Spencerville, Ind. Fruit-spoon. No. 1,004,990; Oct. 3; Sp. p. 931; Gaz. vol. 171; p. 155.
Chapman, Loren C., assignor of one-half to W. Lauren, Wedderburn, Oreg. Combination-wrench. No. 1,007,020; Oct. 24; Sp. p. 5413; Gaz. vol. 171; p. 949.
Chapman, Mercer E., Dripping Springs, Tex. Type-cabinet. No. 997,239; July 4; Sp. p. 1348; Gaz. vol. 168; p. 220.
Chapman, Samuel E., assignor of one-third to W. M. Woodward, Oakland, Cal. Vehicle-wheel. No. 994,571; June 6; Sp. p. 978; Gaz. vol. 167; p. 162.
Chapman, Solomon D., Canton, Ohio. Radiator return-valve. No. 1,006,629; Oct. 24; Sp. p. 4580; Gaz. vol. 171; p. 816.
Chapman, Theron W., assignor to National Sewing Machine Company, Belvidere, Ill. Driving-gear mechanism for washing-machines. No. 1,011,577; Dec. 12; Sp. p. 2679; Gaz. vol. 173; p. 449.
Chapman, Thomas, Denver, Colo. Automatic electric igniter for orchard-heaters. No. 983,979; Feb. 14; Sp. p. 1584; Gaz. vol. 163; p. 276.
Chapman, William A., Smithville, Ark. Sound reproducer and recorder. No. 998,465; July 18; Sp. p. 4054; Gaz. vol. 168; p. 719.
Chapman, William B., New York, N. Y. Gas-washer. No. 992,706; May 16; Sp. p. 4006; Gaz. vol. 166; p. 715.
Chapman, William B., Brooklyn, assignor to W. B. Hopping, trustee, New York, N. Y. Gas-producer. No. 995,586; June 20; Sp. p. 3264; Gaz. vol. 167; p. 576.
Chapman, William B., assignor to W. B. Hopping, trustee, New York, N. Y. Gas-producer. No. 999,698; Aug. 1; Sp. p. 981; Gaz. vol. 169; p. 172.
Chapman, William B., assignor to W. B. Hopping, trustee, New York, N. Y. Gas-producer. No. 1,011,578; Dec. 12; Sp. p. 2681; Gaz. vol. 173; p. 450.
Chapman, William H., Portland, Me. Removing static electricity. No. 983,536; Feb. 7; Sp. p. 588; Gaz. vol. 163; p. 95.
Chapman, William J., and W. Robertson, Minneapolis, Minn. Market-quotation indicator. No. 986,045; Mar. 7; Sp. p. 618; Gaz. vol. 164; p. 100.
Chapman, William L., New York, N. Y. Davit. No. 1,002,032; Aug. 29; Sp. p. 6065; Gaz. vol. 169; p. 1097.
Chapman, Winthrop M., Needham, Mass., assignor to Electric-Railway Signal Company, Kittery, Me. Circuit-closer for trolley-signals. No. 1,006,996; Oct. 24; Sp. p. 5366; Gaz. vol. 171; p. 942.
Chappel, James M., Cleveland, Ohio. Eyeglass-mounting. No. 983,204; Jan. 31; Sp. p. 6603; Gaz. vol. 162; p. 1149.
Chappel, James M., Dallas, Tex. Time-switch. No. 996,616; July 4; Sp. p. 44; Gaz. vol. 168; p. 9.
Chappell, Albert R., and E. S. Ormsby, St. Louis, Mo. Self-oiling engine. No. 992,163; May 16; Sp. p. 2830; Gaz. vol. 166; p. 527.
Chappell, David, Llanelly, England, and J. Chappell, Pittsburg, Pa. Life-saving device for submarine vessels. No. 1,002,033; Aug. 29; Sp. p. 6067; Gaz. vol. 169; p. 1097.
Chappell, Frederick D., San Francisco, Cal. Extension-bed. No. 981,533; Jan. 10; Sp. p. 3066; Gaz. vol. 162; p. 500.
Chappell, John. (See Chappell, David and J.)
Chappell, Marvin L. (See Rheem, Chappell, and Black.)
Charbonneau, James J., Nashua, N. H. Monorail and truck. No. 991,954; May 9; Sp. p. 2396; Gaz. vol. 166; p. 426.
Chard, Nicholas D., assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Engine-lathe. No. 981,915; Jan. 17; Sp. p. 3894; Gaz. vol. 162; p. 654.
Chard, Nicholas D., assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Lathe. No. 982,034; Jan. 17; Sp. p. 4161; Gaz. vol. 162; p. 694.
Chard, Nicholas D., assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Lathe. No. 999,629; Aug. 1; Sp. p. 848; Gaz. vol. 169; p. 148.
Chard, Nicholas D., assignor to The Lodge & Shipley Machine Tool Co., Cincinnati, Ohio. Lathe. No. 1,007,181; Oct. 31; Sp. p. 5813; Gaz. vol. 171; p. 1061.
Chard, Nicholas D., assignor to The Lodge & Shipley Machine Tool Co., Cincinnati, Ohio. Lathe. No. 1,007,182; Oct. 31; Sp. p. 5816; Gaz. vol. 171; p. 1062.
Charles E. Reed & Company. (See Reed, Charles E., assignor.)
Charles, George M., Washington, D. C. Fountain-comb. No. 1,004,991; Oct. 3; Sp. p. 932; Gaz. vol. 171; p. 155.
Charles, George M., Washington, D. C. Fountain-comb. No. 1,005,412; Oct. 10; Sp. p. 1828; Gaz. vol. 171; p. 325.
Charles H. Childs & Company. (See Cantwell, Edward J., assignor.)
Charles Hunnicutt Company, The. (See Hunnicutt, Charles, assignor.)
Charles Parker Company, The. (See Walker, Eli M., assignor.)
Charles, Phyllis E., Portland, Oreg. Foot-warming attachment for electrothermal garments. No. 990,206; Apr. 18; Sp. p. 4088; Gaz. vol. 165; p. 703.
Charles, Samuel W., Palo Alto, Cal. Razor. No. 989,116; Apr. 11; Sp. p. 1730; Gaz. vol. 165; p. 301.
Charles, Samuel W., Palo Alto, Cal. Razor-stropping device. No. 998,954; July 25; Sp. p. 5177; Gaz. vol. 168; p. 924.
Charles, Thomas, Dallas, Tex. Attachment for pipes. No. 983,122; Jan. 31; Sp. p. 6463; Gaz. vol. 162; p. 1123.
Charleton, Guy, Camden, Me. Machine for stamping and severing blanks. No. 982,475; Jan. 24; Sp. p. 5090; Gaz. vol. 162; p. 878.
Charlton, Thomas, Chicago, Ill. Apparatus for separating ores. No. 1,003,704; Sept. 19; Sp. p. 3317; Gaz. vol. 170; p. 594.
Charlton, Thomas, assignor to Sterling Machine Works, Philadelphia, Pa. Gearing. No. 1,001,819; Aug. 29; Sp. p. 5594; Gaz. vol. 169; p. 1026.
Charmois, Dennis C., Canton, Ohio. Supply and waste for bath-tubs. No. 1,001,122; Aug. 22; Sp. p. 4166; Gaz. vol. 169; p. 762.
Charroin, Frank B., assignor of two-tenths to O. E. Charroin and one-tenth to I. A. Charroin, South Bellingham, Wash. Tank-valve. No. 990,337; Apr. 25; Sp. p. 4414; Gaz. vol. 165; p. 781.
Charroin, Ida A., *et al.* (See Charroin, Frank B., assignor.)
Charroin, Olive E., *et al.* (See Charroin, Frank B., assignor.)
Charter, James A., Chicago, Ill. Lubricator. No. 989,694; Apr. 18; Sp. p. 3010; Gaz. vol. 165; p. 530.
Chartrand, Jean B., assignor of one-fourth to J. J. Day, one-fourth to H. B. Ledoux, and one-fourth to A. Pilon, Montreal, Quebec, Canada. Non-refillable bottle. No. 985,111; Feb. 21; Sp. p. 3947; Gaz. vol. 163; p. 697.
Chas. C. Moore & Co., Engineers. (See Atchison and Weymouth, assignors.) (Reissue.)
Chase, Andrew J., Melrose, assignor of one-half to C. Chase, Roxbury, and one-half to A. E. Howes, Melrose, Mass. Temperature - controlling apparatus. No. 1,005,599; Oct. 10; Sp. p. 2274; Gaz. vol. 171; p. 391.
Chase & Baker Company, The. (See Bayer, William F., assignor.)
Chase, Charles A., Irvington, and H. A. Lewine, Belleville, N. J. Folding box. No. 997,116; July 4; Sp. p. 1092; Gaz. vol. 168; p. 177.
Chase, Confucius, *et al.* (See Chase, Andrew J., assignor.)
Chase, Daniel W., Haverhill, Mass. Sandal. No. 1,012,245; Dec. 19; Sp. p. 4162; Gaz. vol. 173; p. 714.
Chase Foundry and Manufacturing Company, The. (See Chase, Sherwood M., assignor.)
Chase, Frank H., assignor to The Standard Earth Auger Co., Chicago, Ill. Earth-auger. No. 1,004,242; Sept. 26; Sp. p. 4560; Gaz. vol. 170; p. 806.
Chase, George C., Providence, R. I. Registering mechanism for calculating-machines. No. 1,011,156; Dec. 12; Sp. p. 1694; Gaz. vol. 173; p. 298.
Chase, Henry P. (See Saunders and Chase.)
Chase, Reps E., Clifton, N. J. Plumb-level. No. 997,371; July 11; Sp. p. 1628; Gaz. vol. 168; p. 295.
Chase, Reuben H., Denver, Colo., assignor, by mesne assignments, to National Binding Machine Company, Boston, Mass. Device for supporting and delivering paper for wrapping or bundling purposes. (Reissue.) No. 13,309; Nov. 7; Sp. p. 1415; Gaz. vol. 172; p. 229.
Chase Rolling Mill Co. (See Summey, David L., assignor.)
Chase, Sherwood M., assignor to The Chase Foundry and Manufacturing Company, Columbus, Ohio. Deck for trucks. No. 990,110; Apr. 18; Sp. p. 3879; Gaz. vol. 165; p. 670.
Chase, Sherwood M., assignor to The Chase Foundry and Manufacturing Company, Columbus, Ohio. Flexible bearing. No. 1,011,885; Dec. 12; Sp. p. 3328; Gaz. vol. 173; p. 553.

Alphabetical list of patentees—Continued.

Chase, Sherwood M., assignor to The Chase Foundry and Manufacturing Company, Columbus, Ohio. Bearing-bracket. No. 1,011,886; Dec. 12; Sp. p. 3329; Gaz. vol. 173; p. 554.
Chase Tool Manufacturing Company. (See Hachmann, Frederick, assignor.)
Chase, Warren A., assignor of one-half to F. B. Crane, Dorchester, Mass. Refrigerator. No. 1,001,505; Aug. 22; Sp. p. 4914; Gaz. vol. 169; p. 888.
Chasins, Marcus L. (See Zuckerman, Morris, assignor.)
Chatfield, Franklin, Minneapolis, Minn. Fabric-opening device. No. 995,522; June 20; Sp. p. 3110; Gaz. vol. 167; p. 553.
Chatfield, George L., assignor to C. Bradford, Indianapolis, Ind. Pipe-making machine. No. 997,602; July 11; Sp. p. 2076; Gaz. vol. 168; p. 371.
Chatillon, George E., New York, N. Y. Twine-holder. No. 1,005,155; Oct. 10; Sp. p. 1245; Gaz. vol. 171; p. 232.
Chatwin, Thomas and T. P., and J. Virtue, Birmingham, England. Die-head of screwing-machines. No. 996,311; June 27; Sp. p. 4875; Gaz. vol. 167; p. 860.
Chatwin, Thomas P. (See Chatwin and Virtue.)
Chaudron, Alfred G., Flomaton, assignor of one-half to S. H. Newton, Pollard, Ala. Bow-facing manually-operated boat-propelling apparatus. No. 987,794; Mar. 28; Sp. p. 4301; Gaz. vol. 164; p. 783.
Chaumat, Henri, Paris, France. Indigo-dyeing vat. No. 981,380; Jan. 10; Sp. p. 2754; Gaz. vol. 162; p. 447.
Chaurette, Edmond. (See Wells and Chaurette.)
Chausse, Francis W., Portland, Oreg. Window-sash lock. No. 1,006,357; Oct. 17; Sp. p. 3953; Gaz. vol. 171; p. 689.
Chaussee, Fred, Vermilion, S. D. Washbench. No. 995,844; June 20; Sp. p. 3837; Gaz. vol. 167; p. 667.
Chaussinand, Paul L. F. H., St.-Dizier, France. Candle-lamp. No. 997,751; July 11; Sp. p. 2441; Gaz. vol. 168; p. 426.
Chautauqua Appliance Company. (See Westburg and Bates, assignors.)
Chautauqua Motor Company. (See Caldwell, Edwin D., assignor.)
Chauve, Jean C. (See Cauderay and Chauve.)
Chauvet, Joseph J. M., and J. T. Dowdall; said Dowdall assignor to J. W. Coulter, New York, N. Y. Automatic clamp feeder and releaser. No. 1,006,827; Oct. 24; Sp. p. 5003; Gaz. vol. 171; p. 885.
Chavanne, Irénée A., and B. Ollagnier, St. Chamond, France. Method of and apparatus for grinding cereals. No. 990,705; Apr. 25; Sp. p. 5262; Gaz. vol. 165; p. 908.
Chavassieu, Henri L. J., Lyon, France. Obtaining soluble and coagulatable proteid composition. No. 984,539; Feb. 21; Sp. p. 2805; Gaz. vol. 163; p. 501.
Cheape, John A., Charlottesville, Va. Match-box holder. No. 1,006,434; Oct. 17; Sp. p. 4105; Gaz. vol. 171; p. 716.
Cheape, John A., assignor to The Simplex Adder Company, Charlottesville, Va. Resetting device for adding-machines. No. 983,682; Feb. 7; Sp. p. 925; Gaz. vol. 163; p. 146.
Chedester, William T., Fort Worth, Tex. Drawer or unit for filing-cabinets. No. 1,011,743; Dec. 12; Sp. p. 3027; Gaz. vol. 173; p. 505.
Chédru, Gustave, assignor to E. R. Thomas Motor Company, Buffalo, N. Y. Starting device for gas-engines. No. 998,157; July 18; Sp. p. 3372; Gaz. vol. 168; p. 608.
Cheek, Marcellus B., Aurora, Ind. Feed-water heater. No. 980,759; Jan. 3; Sp. p. 1241; Gaz. vol. 162; p. 199.
Cheever, Frederick L., Quincy, Mass. Boot or shoe. No. 983,604; Feb. 7; Sp. p. 756; Gaz. vol. 163; p. 119.
Chehalis Fir Door Company, The. (See Hobart, William C., assignor.)
Chehey, Joseph. (See Whiteman and Chehey.)
Chelf, Simeon D., Kensington, Kans. Bicycle-support. No. 1,007,532; Oct. 31; Sp. p. 6548; Gaz. vol. 171; p. 1184.
Chellis, Eugene D., assignor to National Metal Seal Company, Portland, Me. Containing vessel. No. 1,006,720; Oct. 24; Sp. p. 4745; Gaz. vol. 171; p. 845.
Chellis, William H., Milwaukee, Wis. Skin-cleaner. No. 996,974; July 4; Sp. p. 785; Gaz. vol. 168; p. 129.
Chelsea Clock Company. (See Menns, Walter K., assignor.)
Chem.-Pharm. Laboratorium "Sahir" G. m. b. H. (See Osborne, Wilhelm, assignor.)
Chemical Development Co., The. (See Ramage, Alexander S., assignor.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Aschan and Kempe, assignors.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Dohrn and Thiele, assignors.)
Chemische Fabrik auf Actien (vorm. E. Schering). (See Rehländer, Paul, assignor.)
Chemische Fabrik auf Actien, (vorm. E. Schering.) (See Wichmann, Georg, assignor.)
Chemische Fabrik Griesheim-Elektron, The. (See Böttiger, Friedrich E., assignor.)
Chemische Fabrik Griesheim-Elektron. (See Ellenberger, Ernst, assignor.)
Chemische Fabrik Griesheim-Elektron. (See Hess, Jacob H., assignor.)
Chemische Fabrik Greisheim-Elektron. (See Hoffmann and Suchy, assignors.)
Chemische Fabrik Griesheim-Elektron. (See Laska, August L., assignor.)
Chemische Fabrik Griesheim Elektron. (See Schnitzspahn, Karl, assignor.)
Chemische Fabrik Griesheim Elektron. (See Singer, Friedrich, assignor.)
Chemische Fabrik Griesheim Elektron. (See Singer, Fritz, assignor.)
Chemische Fabrik Griesheim-Elektron. (See Weber and Schreiber, assignors.)
Chemische Fabrik Reisholz, G. m. b. H. (See Nerking, Joseph, assignor.)
Chemische Fabrik Rhenamia. (See Simon, Carl F., assignor.)
Chemische Fabrik vorm. Goldenberg, Geromont & Cie. (See Federer, Berthold, assignor.)
Chemische Fabrik vormals Sandoz. (See Steiner, Arnold, assignor.)
Chemische Werke vorm. Dr. Heinrich Byk. (See Grüter, Reinhold, assignor.)
Cheney Brothers. (See Barrett, William, assignor.)
Cheney, George M., Southbridge, Mass. Hand-threading shuttle. No. 985,143; Feb. 28; Sp. p. 4042; Gaz. vol. 163; p. 743.
Cheney, Herbert W., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Switch for electric circuits. No. 981,063; Jan. 10; Sp. 2045; Gaz. vol. 162; p. 336.
Cheney, Herbert W., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. System of control. No. 1,000,071; Aug. 8; Sp. p. 1782; Gaz. vol. 169; p. 328.
Cheney, Herbert W., Norwood, Ohio, assignor to Allis-Chalmers Company. Oil-switch. No. 1,007,771; Nov. 7; Sp. p. 263; Gaz. vol. 172; p. 43.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Multiple-voltage controller. No. 987,698; Mar. 28; Sp. p. 4091; Gaz. vol. 164; p. 751.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Oil-switch. No. 988,245; Mar. 28; Sp. p. 5275; Gaz. vol. 164; p. 936.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Controlling device. No. 992,851; May 23; Sp. p. 4325; Gaz. vol. 166; p. 797.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Motor-control system. No. 992,852; May 23; Sp. p. 4327; Gaz. vol. 166; p. 797.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Liquid rheostat. No. 993,027; May 23; Sp. p. 4717; Gaz. vol. 166; p. 859.
Cheney, Herbert W., assignor to Allis-Chalmers Company, Milwaukee, Wis. Unloading device. No. 995,401; June 13; Sp. p. 2833; Gaz. vol. 167; p. 481.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Controller. No. 995,438; June 20; Sp. p. 2929; Gaz. vol. 167; p. 523.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of electrical distribution. No. 1,005,937; Oct. 17; Sp. p. 3013; Gaz. vol. 171; p. 542.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Fluid-pressure governor. No. 1,011,918; Dec. 19; Sp. p. 3422; Gaz. vol. 173; p. 600.
Cheney, Herbert W., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of motor control. No. 1,011,919; Dec. 19; Sp. p. 3426; Gaz. vol. 173; p. 600.
Cheney, Ira W., Great Bend, Kans. Steel shears. No. 981,166; Jan. 10; Sp. p. 2260; Gaz. vol. 162; p. 373.
Cheney, Ward N., *et al.* (See Mullineaux, Edgar J., assignor.)
Cheney, William H., St. Louis, Mo. Locomotive ash-pan. No. 994,817; June 13; Sp. p. 1570; Gaz. vol. 167; p. 287.
Chenoweth, Alexander C., New York, assignor of one-half to J. McNamee, Brooklyn, N. Y. Machine for making reinforced-concrete piles, columns, and the like. No. 984,747; Feb. 21; Sp. p. 3252; Gaz. vol. 163; p. 575.
Chenoweth, Fred M., and A. J. Miller, Lynn, Ind. Pump. No. 1,004,368; Sept. 26; Sp. p. 4796; Gaz. vol. 170; p. 847.
Chernack, Abraham E., Boston, Mass. Machine for covering flexible tubing. No. 982,249; Jan. 24; Sp. p. 4584; Gaz. vol. 162; p. 796.
Chernack, Abraham E., assignor to Chernack Circular Loom Company, Boston, Mass. Flexible conduit. No. 982,248; Jan. 24; Sp. p. 4583; Gaz. vol. 162; p. 796.
Chernack Circular Loom Company. (See Chernack, Abraham E., assignor.)
Cherpit, Louis. (See Pillionnel and Cherpit.)
Cherry, Peterson H., Los Angeles, Cal. Cigarette-machine. No. 1,012,123; Dec. 19; Sp. p. 3894; Gaz. vol. 173; p. 674.
Chertemps, Charles A., Soisy-sous-Montmorency, France. Resilient wheel for vehicles. No. 998,748; July 25; Sp. p. 4703; Gaz. vol. 168; p. 851.
Cheshire, William D., and E. D. Weippert, assignors to Parkinson and W. and B. Cowan Limited, Birmingham, England. Gas-meter registering mechanism. No. 1,012,520; Dec. 19; Sp. p. 4693; Gaz. vol. 173; p. 806.
Chesley, Leon P., Montrose, Pa. Advertising-sign. No. 991,136; May 2; Sp. p. 656; Gaz. vol. 166; p. 112.

Alphabetical list of patentees—Continued.

Chesnutt, Thomas S., Oklahoma, Okla. Loading-truck. No. 991,137; May 2; Sp. p. 657; Gaz. vol. 166; p. 112.
Chesnutt, Thomas S., Buffalo, N. Y. Wheel. No. 1,005,103; Oct. 3; Sp. p. 1134; Gaz. vol. 171; p. 191.
Chester B. Albree Iron Works. (See Albree, Chester B., assignor.)
Chester, Christian L., Monessen, Pa. Sprayer. No. 988,079; Mar. 28; Sp. p. 4976; Gaz. vol. 164; p. 882.
Chester, Everett B. (See Ellison, John D., assignor.)
Chester, Frank E. (See Stetchell, George C., assignor.)
Chester, Wilfred D., and H. B. Rust, Pittsburg, Pa., assignors to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 995,523; June 20; Sp. p. 3112; Gaz. vol. 167; p. 554.
Cheston, Walter S., and T. A. McIntyre, Jr., New York, N. Y. Suction cleaning device. No. 1,011,579; Dec. 12; Sp. p. 2685; Gaz. vol. 173; p. 450.
Chetwynd, Louis W. P., Kingston-upon-Thames, England, and F. W. Clark, Glasgow, Scotland. Mariner's compass. No. 988,626; Apr. 4; Sp. p. 730; Gaz. vol. 165; p. 116.
Chevallard, John, Millersburg, Ohio. Lighting attachment for miners' lamps. No. 998,466; July 18; Sp. p. 4060; Gaz. vol. 168; p. 719.
Chevallier, Arnold L., Ropley, near Alresford, county of Hants, and J. Eastwick, Fyning Wood, parish of Rogate, county of Sussex, England. Automatic small-arm. No. 1,001,250; Aug. 22; Sp. p. 4407; Gaz. vol. 169; p. 801.
Chevrette, Augustin J., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Protector mechanism for looms. No. 987,110; Mar. 21; Sp. p. 2814; Gaz. vol. 164; p. 518.
Chi-Ill Electric Company. (See Silbert, Gustaf I., assignor.)
Chicago Car Door Company. (See Hill, Edward A., assignor.)
Chicago Flexible Shaft Company. (See Larson, Edward A., assignor.)
Chicago Flexible Shaft Company. (See Stewart, John K., assignor.)
Chicago Folding Box Company. (See Pacyna, Arnold, assignor.)
Chicago Laundry Machinery Co. (See Spansail, George H., assignor.)
Chicago Laundry Machinery Company. (See Polaski, John J., assignor.)
Chicago Lino-Tabler Company. (See Stevenson, Ashton G., assignor.)
Chicago Lubricator Company, The. (See Edwards, Frank W., assignor.)
Chicago Lubricator Company, The. (See Keith, Walter A., assignor.)
Chicago Nut Company. (See Messinger, Charles F., assignor.)
Chicago Pneumatic Tool Company. (See Coates, Charles B., assignor.)
Chicago Pneumatic Tool Company. (See Duntley, William O., assignor.)
Chicago Pneumatic Tool Company. (See Kimman, Henry J., assignor.)
Chicago Pneumatic Tool Company. (See Mackie and Doyle, assignors.)
Chicago Pneumatic Tool Company. (See Meissner, Edward C., assignor.)
Chicago Pneumatic Tool Company. (See Thompson and Mackie, assignors.)
Chicago Pneumatic Tool Company. (See Westaway, Walter C., assignor.)
Chicago Railway Equipment Company. (See Cornwall, Frederick R., assignor.)
Chicago Railway Equipment Company, The. (See Kiesel, William F., Jr., assignor.)
Chicago Railway Equipment Company. (See Le Beau, Ernest A., assignor.)
Chicago Railway Equipment Company. (See White, Edward L., assignor.)
Chicago Railway Equipment Company. (See Williams, Charles H., Jr., assignor.)
Chicago Spring Butt Company. (See Keene and Schuster, assignors.)
Chicago Varnish Company. (See Willey, Frederick D., assignor.)
Chichester, Warren, Brooklyn, N. Y., and C. E. Russell, West Orange, N. J.; said Russell assignor to said Chichester. Tape-sealing machine. No. 1,003,233; Sept. 12; Sp. p. 2318; Gaz. vol. 170; p. 397.
Chick, Stephen W., Los Angeles, Cal. Street-car indicator. No. 981,167; Jan. 10; Sp. p. 2262; Gaz. vol. 162; p. 374.
Chief Automobile Company. (See Grace, James E., assignor.)
Chief Motor Car Company. (See Little, Alexander, assignor.)
Child, Edward T., Rosemont, Pa. Controlling electrical circuits. No. 994,976; June 13; Sp. p. 1942; Gaz. vol. 167; p. 341.
Childress, Thornten D., Ansted, W. Va. Insulator. No. 996,312; June 27; Sp. p. 4878; Gaz. vol. 167; p. 860.
Childs, Elmer N., and C. McMillen, Perry, Iowa. Calk-former. No. 984,194; Feb. 14; Sp. p. 2024; Gaz. vol. 163; p. 348.
Childs, George A., Denver, Colo. Burglar-alarm. No. 997,240; July 4; Sp. p. 1350; Gaz. vol. 168; p. 220.
Childs, George W., Ridgway, Pa. Evaporating apparatus. No. 1,005,600; Oct. 10; Sp. p. 2278; Gaz. vol. 171; p. 392.
Childs, Joseph G., Willesden Green, London, England. Wind-turbine. (Reissue.) No. 13,319; Nov. 21; Sp. p. 4610; Gaz. vol. 172; p. 797.
Childs, Joseph G., Willesden Green, London, England. Wind-turbine. No. 1,010,586; Dec. 5; Sp. p. 414; Gaz. vol. 173; p. 66.
Childs, Wallace, Neosho, Mo. Bit for rock-drills, moils, and picks. No. 994,668; June 6; Sp. p. 1200; Gaz. vol. 167; p. 195.
Childs, Willard T., Springfield, Mass. Automobile coupling attachment. No. 994,374; June 6; Sp. p. 571; Gaz. vol. 167; p. 98.
Chilton, Arthur B., assignor of one-half to J. T. Andrew, Montgomery, Ala. Slug-indicator for type-setting machines. No. 991,955; May 9; Sp. p. 2398; Gaz. vol. 166; p. 426.
Chilton, Henry J., Chicago, Ill. Bottle-capping machine. No. 990,338; Apr. 25; Sp. p. 4415; Gaz. vol. 165; p. 781.
Chipchase, Calvert G. (See Chipchase and Metcalfe, assignors.)
Chipchase, John, and A. E. Metcalfe, Newcastle-upon-Tyne, England, assignors to C. G. Chipchase, San Francisco, Cal. Wrench. No. 1,010,232; Nov. 28; Sp. p. 5670; Gaz. vol. 172; p. 1014.
Chipley, William G., New Orleans, La. Tie. No. 1,001,355; Aug. 22; Sp. p. 4647; Gaz. vol. 169; p. 839.
Chipperfield, Walter, Romford, England. Type-case. No. 983,350; Feb. 7; Sp. p. 192; Gaz. vol. 163; p. 34.
Chisholm, Boyd & White Company. (See Cotton and Flood, assignors.)
Chisholm, Charles L., Marysville, New Brunswick, Canada. Telephone-signal. No. 986,267; Mar. 7; Sp. p. 1070; Gaz. vol. 164; p. 171.
Chisholm, Jesse C., Dallas, Tex. Refining crude cottonseed oil. No. 1,007,642; Oct. 31; Sp. p. 6790; Gaz. vol. 171; p. 1221.
Chisholm, Jesse C., Dallas, Tex. Refining crude cottonseed oil. No. 1,010,017; Nov. 28; Sp. p. 5254; Gaz. vol. 172; p. 941.
Chisholm, Thomas P., Saginaw, Mich. Bearing for traveling brushes. No. 999,748; Aug. 8; Sp. p. 1105; Gaz. vol. 169; p. 219.
Chittenden, A. Percival. (See Witham, Adelbert E., assignor.)
Chivers, Algernon S., assignor of one-fifth to T. Craven, Beeville, Tex. Well discharger and cleanser. No. 990,801; Apr. 25; Sp. p. 5469; Gaz. vol. 165; p. 941.
Chiverton, Herbert. (See Prine, Jay W., assignor.)
Chlan, Frank C., assignor of one-half to C. L. Stockhausen, Baltimore, Md. Switch. No. 993,756; May 30; Sp. p. 6306; Gaz. vol. 166; p. 1137.
Chleborad, Henry E., Atwood, Kans. Mail-box. No. 995,845; June 20; Sp. p. 3838; Gaz. vol. 167; p. 667.
Chloride Process Company. (See Bull, William B., assignor.)
Chmurowicz, Karol, Chester, N. Y. Nutcracking device. No. 1,005,692; Oct. 10; Sp. p. 2471; Gaz. vol. 171; p. 424.
Choate, William E., Melrose, Mass. Stencil-cutting machine. No. 983,537; Feb. 7; Sp. p. 589; Gaz. vol. 163; p. 95.
Choma, John A., Hazleton, Pa. Horseshoe. No. 996,455; June 27; Sp. p. 5201; Gaz. vol. 167; p. 912.
Chord, Frank S., Napa, Cal. Wagon-jack. No. 1,003,585; Sept. 19; Sp. p. 3057; Gaz. vol. 170; p. 551.
Chott, Edward L., assignor of one-half to H. J. Chott, Chicago, Ill. Dental broach-holder. No. 983,538; Feb. 7; Sp. p. 598; Gaz. vol. 163; p. 96.
Chott, Hugo J. (See Chott, Edward L., assignor.)
Chown, James V., assignor of one-sixth to R. P. Giles, one-sixth to W. S. Cox, one-sixth to J. C. Ady, and one-half to J. M. Chown, Oakland, Cal. Electric oven. No. 985,144; Feb. 28; Sp. p. 4046; Gaz. vol. 163; p. 743.
Chown, Jessie M., *et al.* (See Chown, James V., assignor.)
Chrisler, Stanley, *et al.* (See Pearson, Eliphalet L., assignor.)
Christ, Charles E., Tamaqua, Pa. Separating and washing apparatus. No. 999,545; Aug. 1; Sp. p. 699; Gaz. vol. 169; p. 120.
Christ, Isaac, Tamaqua, Pa. Bucket conveyer. No. 1,004,992; Oct. 3; Sp. p. 933; Gaz. vol. 171; p. 155.
Christ, Isaac, Tamaqua, Pa. Conveyer. No. 1,004,993; Oct. 3; Sp. p. 935; Gaz. vol. 171; p. 155.
Christensen, Anton, assignor to F. T. Chambers, Philadelphia, Pa., and H. W. H. Powel, Newport, R. I. Lathe. No. 1,007,065; Oct. 31; Sp. p. 5516; Gaz. vol. 171; p. 1019.
Christensen, Carl, Clifton, assignor, by mesne assignments, to Sears, Roebuck & Company, Chicago, Ill. Agricultural implement. No. 996,313; June 27; Sp. p. 4879; Gaz. vol. 167; p. 860.
Christensen, Christen, Scotia, N. Y., assignor to General Electric Company. Oil-switch. No. 991,480; May 9; Sp. p. 1392; Gaz. vol. 166; p. 263.

Alphabetical list of patentees—Continued.

Christensen, Christoffer A., Portland, Oreg. Ore-concentrator and sliming-table. No. 980,202; Jan. 3; Sp. p. 54; Gaz. vol. 162; p. 11.
Christensen, Emil. (See Tremmel and Christensen.)
Christensen, Emil, Portland, Oreg. Snatch-block. No. 1,010,018; Nov. 28; Sp. p. 5256; Gaz. vol. 172; p. 942.
Christensen, Hans, Halle, Germany. Producing substitutes for lithographic stones or metal plates. No. 991,273; May 2; Sp. p. 958; Gaz. vol. 166; p. 161.
Christensen, Hjalmar, Seattle, Wash. Lamp-socket fastening. No. 985,395; Feb. 28; Sp. p. 4621; Gaz. vol. 163; p. 828.
Christensen, Jens H., Sölleröd pr. Holte, Denmark. Manufacture of color plates or screens for color photography. No. 994,977; June 13; Sp. p. 1949; Gaz. vol. 167; p. 341.
Christensen, John, Evans City, Pa. Insulator for electric-railway cars. No. 1,000,493; Aug. 15; Sp. p. 2735; Gaz. vol. 169; p. 506.
Christensen, Niels A., Milwaukee, Wis. Piston. No. 988,311; Apr. 4; Sp. p. 27; Gaz. vol. 165; p. 8.
Christensen, Niels A., Milwaukee, Wis. Governor. No. 996,212; June 27; Sp. p. 4640; Gaz. vol. 167; p. 828.
Christensen, Peter B., New Britain, Conn. Tool-holder. No. 989,117; Apr. 11; Sp. p. 1732; Gaz. vol. 165; p. 302.
Christenson, Algot L., Stockholm, Sweden. Blue-milk outlet in centrifugal separators. No. 982,200; Jan. 17; Sp. p. 4471; Gaz. vol. 162; p. 750.
Christenson, Christian, Clifford, Colo. Washboard. No. 1,000,990; Aug. 22; Sp. p. 3856; Gaz. vol. 169; p. 715.
Christenson, George, Nevada, Mo., assignor to H. W. Johns-Manville Company. Piston-packing expander. No. 984,888; Feb. 21; Sp. p. 3521; Gaz. vol. 163; p. 623.
Christian, Andrew W. (See Schlosser and Christian.)
Christiansen, Bruno, Cologne-Sülz, Germany. Electric safety-lamp. No. 999,298; Aug. 1; Sp. p. 202; Gaz. vol. 169; p. 38.
Christiansen, Charles, Gelsenkirchen, Germany. Valve mechanism. No. 1,010,859; Dec. 5; Sp. p. 1028; Gaz. vol. 173; p. 160.
Christiansen, Christian, Kenmare, N. D. Starting mechanism for explosion-engines. No. 1,010,233; Nov. 28; Sp. p. 5672; Gaz. vol. 172; p. 1015.
Christiansen, Christian B., New York, N. Y. Sinking concrete columns, piers, and the like. No. 983,808; Feb. 7; Sp. p. 1172; Gaz. vol. 163; p. 188.
Christiansen, Julius, New York, N. Y. Aeroplane. No. 996,456; June 27; Sp. p. 5202; Gaz. vol. 167; p. 912.
Christiansen, Julius C., New York, N. Y. Double-acting rudder. No. 999,959; Aug. 8; Sp. p. 1538; Gaz. vol. 169; p. 290.
Christianson, Andrew, Butler, Pa. Brake. No. 999,153; July 25; Sp. p. 5565; Gaz. vol. 168; p. 989.
Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburg, Pa. Coupling-releasing mechanism. No. 989,945; Apr. 18; Sp. p. 3555; Gaz. vol. 165; p. 617.
Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburg, Pa. Passenger-car frame. No. 992,164; May 16; Sp. p. 2833; Gaz. vol. 166; p. 527.
Christianson, Andrew, Butler, assignor to Standard Motor Truck Co., Pittsburg, Pa. Brake-hanger. No. 998,870; July 25; Sp. p. 4980; Gaz. vol. 168; p. 894.
Christie, Evi W., Sewaren, N. J., assignor to Wheeler Condenser & Engineering Company, New York, N. Y. Valve. No. 994,572; June 6; Sp. p. 979; Gaz. vol. 167; p. 162.
Christie, Haldane H., Jackson, Mich. Vehicle-top. No. 981,168; Jan. 10; Sp. p. 2263; Gaz. vol. 162; p. 374.
Christie, Louis C., Berkeley, Cal. Testing apparatus. No. 998,591; July 18; Sp. p. 4320; Gaz. vol. 168; p. 763.
Christie, Robert J., Sanger, Cal. Ironing-board. No. 1,002,900; Sept. 12; Sp. p. 1623; Gaz. vol. 170; p. 281.
Christman, Daniel H., Marietta, assignor of one-fourth to W. C. McClure, Cleveland, and one-fourth to R. H. Cole, Marietta, Ohio. Reflux condensing-dome. No. 1,009,049; Nov. 21; Sp. p. 3172; Gaz. vol. 172; p. 563.
Christman, Henry, Avena, Ill. Metallic cross-tie and rail-fastener. No. 982,126; Jan. 17; Sp. p. 4343; Gaz. vol. 162; p. 725.
Christman, Matthias, and E. Johnson, Springfield, Mo. Piston-valve. (Reissue.) No. 13,272; July 18; Sp. p. 4325; Gaz. vol. 168; p. 764.
Christman, Peter, Green Bay, Wis. Mechanical movement. No. 1,004,147; Sept. 26; Sp. p. 4364; Gaz. vol. 170; p. 775.
Christman, Philip D., Bryan, Ohio. Strap-tightener. No. 1,002,901; Sept. 12; Sp. p. 1624; Gaz. vol. 170; p. 281.
Christoffel, Thomas, Monroe, Wis. Cheese-handling apparatus. No. 981,381; Jan. 10; Sp. p. 2756; Gaz. vol. 162; p. 447.
Christoph, Emil A., Chicago, Ill., assignor to McGill Manufacturing Company. Beater. No. 1,010,019; Nov. 28; Sp. p. 5257; Gaz. vol. 172; p. 942.
Christopher, Calvin F., Asheville, N. C. Computing-scale. No. 1,006,062; Oct. 17; Sp. p. 3266; Gaz. vol. 171; p. 584.
Christophersen, Louis P., St. Louis, Mo. Display-canister. No. 999,206; Aug. 1; Sp. p. 30; Gaz. vol. 169; p. 7.
Christopherson, Albert G., California Junction, Iowa. Grain-door. No. 991,274; May 2; Sp. p. 959; Gaz. vol. 166; p. 161.
Christopherson, Thomas, East Helena, Mont. Automobile-tire. No. 1,010,234; Nov. 28; Sp. p. 5675; Gaz. vol. 172; p. 1015.
Christophery, Heinrich, Iserlohn, Germany. Lever-handle. No. 981,246; Jan. 10; Sp. p. 2471; Gaz. vol. 162; p. 448.
Christy, James. (See Denmead, John W., assignor.)
Christy, James. (See Wildman and Christy.)
Christy, Henry A., Kenilworth, Ill. Car-roof. No. 1,005,938; Oct. 17; Sp. p. 3015; Gaz. vol. 171; p. 543.
Christy, Thomas A., Hot Springs, S. D. Stretcher for fractures. No. 990,525; Apr. 25; Sp. p. 4863; Gaz. vol. 165; p. 848.
Chriswell, Frederick W., assignor to The Seattle Car Manufacturing Company, Seattle, Wash. Logging-car. No. 995,056; June 13; Sp. p. 2119; Gaz. vol. 167; p. 368.
Chritton, James M., Rocky Ford, Colo. Aerodrome. No. 980,599; Jan. 3; Sp. p. 912; Gaz. vol. 162; p. 148.
Chromasta, Adolph H., *et al.* (See Harris, Charles S., assignor.)
Chrysler, William L., assignor of one-half to J. O. Snyder, Eugene, Oreg. Pitman connection. No. 993,757; May 30; Sp. p. 6308; Gaz. vol. 166; p. 1138.
Chryst, William A. (See Kettering and Chryst.)
Chubb, Lewis W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Forming coils for electric apparatus. No. 999,749; Aug. 8; Sp. p. 1107; Gaz. vol. 169; p. 219.
Church, Edmund S., Oak Park, Ill., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Mechanical cashier. No. 985,145; Feb. 28; Sp. p. 4047; Gaz. vol. 163; p. 744.
Church, Edmund S., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 998,601; July 25; Sp. p. 4354; Gaz. vol. 168; p. 798.
Church, Edmund S., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,004,848; Oct. 3; Sp. p. 651; Gaz. vol. 171; p. 106.
Church, Edmund S., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,005,601; Oct. 10; Sp. p. 2281; Gaz. vol. 171; p. 392.
Church, Edmund S., Dayton, Ohio, assignor, by mesne assignments, to The Travelers Insurance Machine Company, Louisville, Ky. Vending-machine. No. 1,011,319; Dec. 12; Sp. p. 2086; Gaz. vol. 173; p. 357.
Church, Edmund S., Dayton, Ohio, assignor, by mesne assignments, to The Travelers Insurance Machine Company, Louisville, Ky. Check-controlled apparatus. No. 1,011,320; Dec. 12; Sp. p. 2095; Gaz. vol. 173; p. 358.
Church, George W., Stamford, Conn., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Stapling mechanism. No. 993,649; May 30; Sp. p. 6057; Gaz. vol. 166; p. 1100.
Church, James E., Cambridge, Mass. Boat. No. 1,006,435; Oct. 17; Sp. p. 4107; Gaz. vol. 171; p. 716.
Church, Joel C., Los Angeles, Cal. Rod-packing. No. 1,006,436; Oct. 17; Sp. p. 4108; Gaz. vol. 171; p. 716.
Church, John L., Bellingham, Wash. Heel. No. 1,012,597; Dec. 26; Sp. p. 4873; Gaz. vol. 173; p. 878.
Church, Lewis H., Stamford, Conn. Cutter for cable armor and tubing. No. 980,600; Jan. 3; Sp. p. 917; Gaz. vol. 162; p. 148.
Churchill, Durand, Chicago, Ill. Lock for locker-doors. No. 998,871; July 25; Sp. p. 4981; Gaz. vol. 168; p. 894.
Churchill, Frank B., Shelbyville, Ind. Currency-washing machine. No. 981,169; Jan. 10; Sp. p. 2265; Gaz. vol. 162; p. 374.
Churchill, Frank B., Shelbyville, Ind. Currency-drier. No. 994,246; June 6; Sp. p. 300; Gaz. vol. 167; p. 51.
Churchill, Richard J., Essex, Kans. Broom-corn header. No. 980,203; Jan. 3; Sp. p. 56; Gaz. vol. 162; p. 11.
Churchill, Thomas H., assignor of one-third to C. H. Ruggles, Toronto, Ontario, Canada. Ladder. No. 997,241; July 4; Sp. p. 1352; Gaz. vol. 168; p. 221.
Churchill, Thomas J., Boardman, Conn. Machine for sowing Paris green. No. 981,614; Jan. 17; Sp. p. 3236; Gaz. vol. 162; p. 549.
Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Optical system for headlights. No. 1,004,627; Oct. 3; Sp. p. 170; Gaz. vol. 171; p. 29.
Churchill, William, assignor to Corning Glass Works, Corning, N. Y. Headlight or other light-projector. No. 1,004,628; Oct. 3; Sp. p. 171; Gaz. vol. 171; p. 30.
Churchward, Alexander, New York, N. Y., assignor to General Electric Company. Rectifier system. No. 996,975; July 4; Sp. p. 787; Gaz. vol. 168; p. 129.
Churchward, Alexander, New York, N. Y., assignor to General Electric Company. System of motor control. No. 1,003,431; Sept. 19; Sp. p. 2712; Gaz. vol. 170; p. 498.
Chute, Harry O., Cleveland, Ohio, and K. P. McElroy, Washington, D. C., assignors to Ligno-Chemical Company, New York, N. Y. Making acetates. No. 1,002,034; Aug. 29; Sp. p. 6068; Gaz. vol. 169; p. 1098.
Chytraus, Emil F., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Insulation-cutter. No. 1,011,157; Dec. 12; Sp. p. 1699; Gaz. vol. 173; p. 299.
Cieslinskie, Anthony J., and W. G. Whittle, Brooklyn, N. Y. Milk-bottle safe. No. 998,955; July 25; Sp. p. 5178; Gaz. vol. 168; p. 924.

Alphabetical list of patentees—Continued.

Ciglia, Ernest F., and L. F. Pelletier, New York, N. Y., assignors to Ciglia Shock Preventer Company. Shock-absorber. No. 986,622; Mar. 14; Sp. p. 1832; Gaz. vol. 164; p. 325.
Ciglia Shock Preventer Company. (See Ciglia and Pelletier, assignors.)
Ciliske, Charles H., Chicago, Ill. Self-heating flat-iron. No. 983,683; Feb. 7; Sp. p. 926; Gaz. vol. 163; p. 146.
Cimarik, Charles, Akron, Ohio. Plow. No. 1,002,966; Sept. 12; Sp. p. 1751; Gaz. vol. 170; p. 304.
Cincinnati Butchers' Supply Company, The. (See Naegelen, Charles, assignor.)
Cincinnati Butchers Supply Company, The. (See Schmidgall and Kornmann, assignors.
Cincinnati Butcher's Supply Company. (See Schmidt, Gustav, assignor.)
Cincinnati Gear Cutting Machine Company, The. (See Murray, Aristides R., assignor.)
Cincinnati Milling Machine Company, The. (See De Leeuw, Adolph L., assignor.)
Cincinnati Shaper Co., The. (See Murray, Aristides R., assignor.)
Ciolfi, Antonino, assignor to M. Levy, Cincinnati, Ohio. Syringe. No. 1,004,369; Sept. 26; Sp. p. 4798; Gaz. vol. 170; p. 848.
Cipperly, Wilbur N., Rockford, Ill. Protective device for elevators. No. 990,226; Apr. 25; Sp. p. 4145; Gaz. vol. 165; p. 742.
Cirac, Louis, Ely, Nev. Stuffing-box. No. 1,002,806; Sept. 5; Sp. p. 1379; Gaz. vol. 170; p. 210.
Cirillo, Giovanni. (See Palmieri and Cirillo.)
Citroën, André, assignor to Société André Citroen et Cie., Paris, France. Speed-reducing apparatus. No. 1,009,280; Nov. 21; Sp. p. 3705; Gaz. vol. 172; p. 645.
Citron, William J., San Francisco, Cal. Tonsorial apparatus. No. 1,004,849; Oct. 3; Sp. p. 655; Gaz. vol. 171; p. 107.
Cižek, Charles, Cleveland, Ohio. Reversible plow. No. 1,010,117; Nov. 28; Sp. p. 5449; Gaz. vol. 172; p. 976.
Clabaugh, Harry G., assignor of one-half to A. J. Hunt, Altoona, Pa. Bottle. No. 980,601; Jan. 3; Sp. p. 919; Gaz. vol. 162; p. 148.
Clack, John Y., Red Bay, Ala. Wagon-brake. No. 1,012,985; Dec. 26; Sp. p. 5783; Gaz. vol. 173; p. 1012.
Claessen, Conrad H. H., Berlin, Germany. Aluminum alloy. No. 995,113; June 13; Sp. p. 2223; Gaz. vol. 167; p. 387.
Claflin, Alan A., Medford, Mass. Utilizing zinc-sulfite sludge. No. 994,502; June 6; Sp. p. 825; Gaz. vol. 167; p. 138.
Clairemont, Mary. (See Petersen and Clairemont.)
Clamens, Jean B., Paris, France. Making bimetallic wire. No. 1,011,744; Dec. 12; Sp. p. 3029; Gaz. vol. 173; p. 505.
Clancy, Cornelius L., *et al.* (See Thomas, Wesley A., assignor.)
Clancy, John C., New York, N. Y. Treating metalliferous ores. No. 1,010,347; Nov. 28; Sp. p. 5908; Gaz. vol. 172; p. 1052.
Clancy, John C., New York, N. Y., assignor to Clancy Metals Process Company. Treatment of precious metalliferous ores. No. 998,749; July 25; Sp. p. 4704; Gaz. vol. 168; p. 852.
Clancy Metals Process Company. (See Clancy, John C., assignor.)
Clanton, John B., and E. A. Beatty, Charlotte, N. C. Wagon-brake. No. 1,002,807; Sept. 5; Sp. p. 1381; Gaz. vol. 170; p. 210.
Clapp, Albert L., Braintree, assignor to Hide-Ite Leather Company, Boston, Mass. Making leather-board. No. 981,591; Jan. 10; Sp. p. 3182; Gaz. vol. 162; p. 519.
Clapp, Clarence E., Buffalo, N. Y. Rotary engine. No. 982,035; Jan. 17; Sp. p. 4162; Gaz. vol. 162; p. 694.
Clapp, Ford M., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 998,750; July 25; Sp. p. 4706; Gaz. vol. 168; p. 852.
Clapp, George E., Kalamazoo, Mich. Faucet. No. 993,758; May 30; Sp. p. 6309; Gaz. vol. 166; p. 1138.
Clapp, George L., assignor of one-third to C. F. Hirshfeld and one-third to B. L. Johnson, Ithaca, N. Y. Sign. No. 983,684; Feb. 7; Sp. p. 929; Gaz. vol. 163; p. 147.
Clapp, Harold W., Berkeley, and B. C. Edgar, San Francisco, Cal. Insulated adjustable trolley-crossing. No. 1,010,722; Dec. 5; Sp. p. 715; Gaz. vol. 173; p. 113.
Clare, Frederick, Preston, Ontario, Canada. Radiator. No. 1,007,643; Oct. 31; Sp. p. 6792; Gaz. vol. 171; p. 1221.
Clarey, James, New York, N. Y. Baker's oven. No. 987,957; Mar. 28; Sp. p. 4714; Gaz. vol. 164; p. 841.
Clark, Aaron W., Winslow, Ark. Closure for mail-bags. No. 984,540; Feb. 21; Sp. p. 2806; Gaz. vol. 163; p. 501.
Clark, Albert M., Marshalltown, Iowa. Railway-truck. No. 983,478; Feb. 7; Sp. p. 476; Gaz. vol. 163; p. 76.
Clark, Alfred M., Kalamazoo, Mich. Mail-bag and parcel receiving and delivering apparatus. No. 991,425; May 2; Sp. p. 1269; Gaz. vol. 166; p. 212.
Clark, Allen M., South Bend, Ind. Multicolor-printing press. No. 995,524; June 20; Sp. p. 3112; Gaz. vol. 167; p. 554.
Clark, Amasa B., New York, N. Y. Pile-sinking apparatus. No. 1,005,693; Oct. 10; Sp. p. 2472; Gaz. vol. 171; p. 424.
Clark, Amasa B., New York, N. Y. Apparatus for sinking tubular piles. No. 1,005,770; Oct. 10; Sp. p. 2618; Gaz. vol. 171; p. 452.
Clark, Amasa B., New York, N. Y. Pile-driver. No. 1,010,723; Dec. 5; Sp. p. 717; Gaz. vol. 173; p. 113.
Clark, Arthur E., Memphis, Mo. Bearing. No. 982,250; Jan. 24; Sp. p. 4587; Gaz. vol. 162; p. 797.
Clark Blade & Razor Company. (See Molkenthin, Joseph, Jr., assignor.)
Clark Car Company. (See Clark, Charles H., assignor.)
Clark, Charles, Chautauqua, Kans. Attachment for harness. No. 1,001,820; Aug. 29; Sp. p. 5596; Gaz. vol. 169; p. 1026.
Clark, Charles, Gueydan, La. Wire-stretcher. No. 1,012,598; Dec. 26; Sp. p. 4874; Gaz. vol. 173; p. 878.
Clark, Charles A., Toledo, Ohio. Automatic buffing-machine. No. 1,012,814; Dec. 26; Sp. p. 5378; Gaz. vol. 173; p. 955.
Clark, Charles H., Jackson, Mich. Hose-supporter and fastener for corsets, &c. No. 985,565; Feb. 28; Sp. p. 5018; Gaz. vol. 163; p. 888.
Clark, Charles H., Crafton, assignor to Clark Car Company, Pittsburgh, Pa. Tilting side-dump car. No. 1,007,533; Oct. 31; Sp. p. 6549; Gaz. vol. 171; p. 1184.
Clark, Charles M., Chicago, Ill., and G. H. Gibson, Upper Montclair, N. J.; said Gibson assignor to said Clark. Boiler feed-water regulator. No. 1,005,156; Oct. 10; Sp. p. 1247; Gaz. vol. 171; p. 232.
Clark, Charles P., Bridgeport, Conn. Razor. No. 987,553; Mar. 21; Sp. p. 3759; Gaz. vol. 164; p. 672.
Clark, Charles W., assignor of one-half to D. A. Warner, Los Angeles, Cal. Purifier. No. 984,472; Feb. 14; Sp. p. 2620; Gaz. vol. 163; p. 442.
Clark, Charles W., assignor of one-half to E. C. Crowley, New York, N. Y. Dancing toy. No. 992,111; May 9; Sp. p. 2699; Gaz. vol. 166; p. 477.
Clark, Chester H., and W. H. Van Dyne, Atlantic City, N. J. Tray. No. 995,114; June 13; Sp. p. 2224; Gaz. vol. 167; p. 387.
Clark, Clement, Sandusky, Ohio. Emergency-brake. No. 1,007,268; Oct. 31; Sp. p. 5986; Gaz. vol. 171; p. 1092.
Clark, David A., deceased, Altheimer; S. E. Clark, administratrix, assignor of one-half to I. S. Langford, Pine Bluff, Ark. Nut-lock. No. 988,928; Apr. 4; Sp. p. 1333; Gaz. vol. 165; p. 214.
Clark, David P., Dayton, Ohio. Mechanically-operated toy. No. 991,275; May 2; Sp. p. 960; Gaz. vol. 166; p. 162.
Clark, David P., Dayton, Ohio. Locomotive toy. No. 991,276; May 2; Sp. p. 964; Gaz. vol. 166; p. 162.
Clark, David P., Dayton, Ohio. Wheeled toy of the self-propelled type. No. 1,012,815; Dec. 26; Sp. p. 5381; Gaz. vol. 173; p. 955.
Clark, Edward D., Evergreen, Tex. Rail-antispreader. No. 1,007,066; Oct. 31; Sp. p. 5538; Gaz. vol. 171; p. 1019.
Clark, Edward W., Los Angeles, Cal. Stay-bolt. No. 1,003,705; Sept. 19; Sp. p. 3320; Gaz. vol. 170; p. 594.
Clark, Edwin A., Topeka, Kans. Chuck. No. 986,689; Mar. 14; Sp. p. 1978; Gaz. vol. 164; p. 348.
Clark, Ellsworth E. (See Rosenberg and Clark.)
Clark, Elmor S., Middletown, Ohio. Mechanical stoker. No. 989,895; Apr. 18; Sp. p. 3430; Gaz. vol. 165; p. 598.
Clark, Elmor S., Middletown, Ohio. Tobacco-barn implement. No. 1,006,721; Oct. 24; Sp. p. 4746; Gaz. vol. 171; p. 846.
Clark, Erle T., Comanche, Okla. Protector for pneumatic tires. No. 997,752; July 11; Sp. p. 2443; Gaz. vol. 168; p. 426.
Clark, Ernest G., De Kalb, Ill. Machine for making stencils. No. 983,873; Feb. 14; Sp. p. 1347; Gaz. vol. 163; p. 242.
Clark, Ernest G., De Kalb, Ill. Controlling device for automatic musical instruments and players. No. 1,005,413; Oct. 10; Sp. p. 1829; Gaz. vol. 171; p. 326.
Clark, Francis J., San Jose, Cal. Horse-collar cap-clamp and pad-guard. No. 1,007,336; Oct. 31; Sp. p. 6125; Gaz. vol. 171; p. 1117.
Clark, Francis W. (See Chetwynd and Clark.)
Clark, Frank A., San Francisco, Cal. Knob-fastener. No. 999,546; Aug. 1; Sp. p. 701; Gaz. vol. 169; p. 120.
Clark, Frank E., Canton, Ohio. Twine-holder. No. 1,004,994; Oct. 3; Sp. p. 937; Gaz. vol. 171; p. 156.
Clark, Frank M., Tilton, N. H., assignor to Clark Mechanical Co. Needle-loom. No. 1,009,472; Nov. 21; Sp. p. 4130; Gaz. vol. 172; p. 713.
Clark, Gardner, South Acton, Mass. Fuel-economizer and smoke and spark consumer. No. 988,861; Apr. 4; Sp. p. 1205; Gaz. vol. 165; p. 192.
Clark, George F., Crosland, Ga. Cup and apron. No. 980,204; Jan. 3; Sp. p. 57; Gaz. vol. 162; p. 12.
Clark, George J. J., West Hanover, Mass. Toy pistol. No. 991,956; May 9; Sp. p. 2400; Gaz. vol. 166; p. 426.
Clark, George L., Mount Gilead, Ohio. Feed-receptacle. No. 1,000,667; Aug. 15; Sp. p. 3141; Gaz. vol. 169; p. 569.
Clark, George M., Jr., Lynn, Mass. Ingot-casting machine. No. 992,853; May 23; Sp. p. 4333; Gaz. vol. 166; p. 797.

Alphabetical list of patentees—Continued.

Clark, Gilbert A. (See Zeidler, William A., assignor.)
Clark, H. J., *et al.* (See Griffin, William H., assignor.)
Clark, Horace F. (See Rittenhouse, Irvin, assignor.)
Clark, Horace O., New York, N. Y. Piano-action. No. 995,439; June 20; Sp. p. 2931; Gaz. vol. 167; p. 523.
Clark, Horace W., Mattoon, Ill. Protecting box or casing. No. 989,695; Apr. 18; Sp. p. 3012; Gaz. vol. 165; p. 530.
Clark, Horace W., Mattoon, Ill. Protecting box or casing. No. 1,002,501; Sept. 5; Sp. p. 718; Gaz. vol. 170; p. 105.
Clark, Hubert D., Columbus, Ohio. Burial casing or vault. No. 1,005,513; Oct. 10; Sp. p. 2050; Gaz. vol. 171; p. 360.
Clark, Ira D. (See Tawlks, Allan, assignor.)
Clark, James, Youngstown, Ohio. Chute. No. 1,005,939; Oct. 17; Sp. p. 3017; Gaz. vol. 171; p. 543.
Clark, James, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Clamping-ring for lock-bar-pipe couplings. No. 999,547; Aug. 1; Sp. p. 702; Gaz. vol. 169; p. 120.
Clark, James, assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Clamping-ring for pipe-couplings. No. 999,548; Aug. 1; Sp. p. 705; Gaz. vol. 169; p. 121.
Clark, James B., Harrisburg, Ark. Fire-grate. No. 1,000,716; Aug. 15; Sp. p. 3241; Gaz. vol. 169; p. 585.
Clark, James G., Vancouver, British Columbia, Canada. Crude-oil vaporizer and burner. No. 1,006,534; Oct. 24; Sp. p. 4363; Gaz. vol. 171; p. 781.
Clark, James S., London, England. Tire and tire-carrying rim for the wheels of motor-cars, &c. No. 987,344; Mar. 21; Sp. p. 3352; Gaz. vol. 164; p. 601.
Clark, James T., Montreal, Quebec, Canada. Display-fixture. No. 984,797; Feb. 21; Sp. p. 3357; Gaz. vol. 163; p. 592.
Clark, James T., Montreal, Quebec, Canada. Display-fixture. No. 984,798; Feb. 21; Sp. p. 3359; Gaz. vol. 163; p. 593.
Clark, James W., Muncie, Ind. Die-holder. No. 1,008,115; Nov. 7; Sp. p. 1005; Gaz. vol. 172; p. 162.
Clark, Jesiah E., *et al.* (See Cooper, George, assignor.)
Clark, Jesse L., *et al.* (See Hardwick, Joseph H., assignor.)
Clark, John A. (See Wyman, Clark, and Soderberg.)
Clark, John A., Columbus, Ohio. Strainer. No. 1,000,072; Aug. 8; Sp. p. 1789; Gaz. vol. 169; p. 329.
Clark, John A., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Evener-frame for tuft-fabric looms. No. 986,441; Mar. 14; Sp. p. 1451; Gaz. vol. 164; p. 262.
Clark, John L., Rockford, Ill. Folding box. No. 999,207; Aug. 1; Sp. p. 31; Gaz. vol. 169; p. 7.
Clark, John T., New York, N. Y. Apparatus for loading vessels. No. 1,003,706; Sept. 19; Sp. p. 3321; Gaz. vol. 170; p. 595.
Clark, John T., Provo City, Utah. Railway-tie and fastener. No. 1,010,587; Dec. 5; Sp. p. 417; Gaz. vol. 173; p. 66.
Clark, John T., Provo City, Utah. Railway-tie and fastener. No. 1,010,588; Dec. 5; Sp. p. 419; Gaz. vol. 173; p. 66.
Clark, John T., Provo City, Utah. Railway-tie and fastener. No. 1,010,589; Dec. 5; Sp. p. 421; Gaz. vol. 173; p. 67.
Clark, John W., Wyoming, Del. Splice-joint and brace for railway-rails. No. 983,123; Jan. 31; Sp. p. 6464; Gaz. vol. 162; p. 1123.
Clark, John W., Jr., Provo, Utah. Railway-tie. No. 1,003,707; Sept. 19; Sp. p. 3323; Gaz. vol. 170; p. 595.
Clark, John W., Jr., Provo, Utah. Rail-joint. No. 1,005,414; Oct. 10; Sp. p. 1833; Gaz. vol. 171; p. 326.
Clark, Le Roy. (See Murphy, Howard M. P., assignor.)
Clark, Le Roy, New York, N. Y., assignor to Safety Insulated Wire & Cable Company. Taping-machine. No. 986,690; Mar. 14; Sp. p. 1980; Gaz. vol. 164; p. 348.
Clark, Maurice C., Providence, R. I. Rubber footwear. No. 985,780; Mar. 7; Sp. p. 26; Gaz. vol. 164; p. 7.
Clark Mechanical Co. (See Clark, Frank M., assignor.)
Clark, Melville, Chicago, Ill. Antiskidding vehicle-wheel. No. 985,884; Mar. 7; Sp. p. 266; Gaz. vol. 164; p. 43.
Clark, Melville, Chicago, Ill. Leak-regulator for primary pneumatics. No. 986,442; Mar. 14; Sp. p. 1452; Gaz. vol. 164; p. 262.
Clark, Melville, Chicago, Ill. Vehicle-wheel tire. No. 990,956; May 2; Sp. p. 278; Gaz. vol. 166; p. 48.
Clark, Melville, Chicago, Ill. Vehicle wheel and tire. No. 993,028; May 23; Sp. p. 4720; Gaz. vol. 166; p. 859.
Clark, Melville, Chicago, Ill. Pneumatic shifting device for movable members of an automatic musical instrument. No. 1,005,771; Oct. 10; Sp. p. 2622; Gaz. vol. 171; p. 452.
Clark, Melville, Chicago, Ill. Vehicle wheel and tire. No. 1,006,465; Oct. 24; Sp. p. 4196; Gaz. vol. 171; p. 756.
Clark, Melville, Chicago, Ill. Vehicle wheel and tire. No. 1,008,116; Nov. 7; Sp. p. 1007; Gaz. vol. 172; p. 163.
Clark, Melville, Chicago, Ill. Interior piano-player. No. 1,009,828; Nov. 28; Sp. p. 4862; Gaz. vol. 172; p. 878.
Clark, Melville, Chicago, Ill. Take-up roll for automatic musical instruments. No. 1,009,829; Nov. 28; Sp. p. 4868; Gaz. vol. 172; p. 879.
Clark, Melville, Chicago, Ill. Tracker-board construction for automatic musical instruments. No. 1,011,745; Dec. 12; Sp. p. 3030; Gaz. vol. 173; p. 505.
Clark, Melville, Chicago, Ill. Interior-player piano. No. 1,011,920; Dec. 19; Sp. p. 3430; Gaz. vol. 173; p. 600.
Clark, Melville A., Syracuse, N. Y. Harp. No. 1,005,157; Oct. 10; Sp. p. 1250; Gaz. vol. 171; p. 233.
Clark, Melville A., Syracuse, N. Y. Harp. No. 1,010,477; Dec. 5; Sp. p. 173; Gaz. vol. 173; p. 29.
Clark Mfg. Company, The. (See Strong, Leslie P., assignor.)
Clark, Morris F. (See Morgan and Clark.)
Clark, Norris E., Plainville, Conn. Welded-wire fabric. No. 980,602; Jan. 3; Sp. p. 920; Gaz. vol. 162; p. 149.
Clark, Osborne S., Provo, Utah. Combined metallic tie and chair. No. 1,007,337; Oct. 31; Sp. p. 6126; Gaz. vol. 171; p. 1117.
Clark, Philo I., assignor to P. Kessler, Chicago, Ill. Combined thread-cutting die and milling device. No. 980,864; Jan. 3; Sp. p. 1472; Gaz. vol. 162; p. 236.
Clark, Prentice E., Elkins, W. Va. Transmission-gearing. No. 1,011,746; Dec. 12; Sp. p. 3032; Gaz. vol. 173; p. 506.
Clark, Reuben M., Webb City, Mo. Eccentric. No. 980,760; Jan. 3; Sp. p. 1243; Gaz. vol. 162; p. 199.
Clark, Reuben M., Webb City, Mo. Traveling conveyer. No. 983,205; Jan. 31; Sp. p. 6605; Gaz. vol. 162; p. 1150.
Clark, Reuben M., Webb City, Mo. Tank-gate. No. 990,706; Apr. 25; Sp. p. 5266; Gaz. vol. 165; p. 909.
Clark, Richard F., Chicago, Ill. Corn-husker. No. 1,010,860; Dec. 5; Sp. p. 1031; Gaz. vol. 173; p. 161.
Clark, Riley D. (See Smith, Red P., assignor.)
Clark, Roy S., Anderson, W. Va. Wrench. No. 985,396; Feb. 28; Sp. p. 4622; Gaz. vol. 163; p. 829.
Clark, Sarah E., administratrix. (See Clark, David A.)
Clark, Simpson. (See Percival, Charles F., assignor.)
Clark, Theodore S. (See Wild, Irving L., assignor.)
Clark, Thomas H., Chicago, Ill. Window construction. No. 1,012,190; Dec. 19; Sp. p. 4038; Gaz. vol. 173; p. 695.
Clark, Thomas R., Bradford, Pa. Display apparatus. No. 1,007,534; Oct. 31; Sp. p. 6552; Gaz. vol. 171; p. 1185.
Clark, Victor E., Grand Rapids, Mich. Resilient wheel. No. 999,960; Aug. 8; Sp. p. 1540; Gaz. vol. 169; p. 291.
Clark, Vivian V., assignor to Northern Engineering Co., Seattle, Wash. Placer-mining apparatus. No. 1,011,321; Dec. 12; Sp. p. 2099; Gaz. vol. 173; p. 358.
Clark, Walter R. (See Eddy and Clark.)
Clark, Warren H., West Burlington, N. Y. Resilient vehicle-tire. No. 995,115; June 13; Sp. p. 2225; Gaz. vol. 167; p. 387.
Clark, Warren H., West Burlington, N. Y. Spring-wheel. No. 995,116; June 13; Sp. p. 2226; Gaz. vol. 167; p. 387.
Clark, Warren W., Lorain, Ohio. Valve mechanism comprising rotary valves. No. 987,215; Mar. 21; Sp. p. 3079; Gaz. vol. 164; p. 558.
Clark, William H., Cleveland, Ohio. Screw-propeller. No. 1,007,183; Oct. 31; Sp. p. 5819; Gaz. vol. 171; p. 1062.
Clark, William H., Cleveland, Ohio. Wheel-propeller. No. 1,009,473; Nov. 21; Sp. p. 4135; Gaz. vol. 172; p. 713.
Clark, William H., assignor to The W. J. Clark Company, Salem, Ohio. Truck-wheel. No. 990,339; Apr. 25; Sp. p. 4418; Gaz. vol. 165; p. 782.
Clark, William J., San Antonio, Tex. Trap. No. 987,284; Mar. 21; Sp. p. 3226; Gaz. vol. 164; p. 582.
Clark, William M. (See Sutch and Clark.)
Clark, William R., Jersey City, N. J. Journal-box bearing for railway-cars. No. 992,481; May 16; Sp. p. 3561; Gaz. vol. 166; p. 638.
Clark, William W., Covington, Ga. Non-refillable bottle. No. 1,011,580; Dec. 12; Sp. p. 2687; Gaz. vol. 173; p. 451.
Clark, Wylie S., Juliette, Ga. Magazine-pipe. No. 1,011,747; Dec. 12; Sp. p. 3035; Gaz. vol. 173; p. 507.
Clarke Chapman and Company Limited. (See Harris, Robert C., assignor.)
Clarke, Charles E., Winthrop, assignor to N. C. Smith, Dedham, Mass. Time-stamp. No. 1,007,672; Nov. 7; Sp. p. 25; Gaz. vol. 172; p. 8.
Clarke Cover Company, The. (See Clarke, Fred C., assignor.)
Clarke, Edward J., and P. F. Dewitt, Scranton, Pa. Train controlling and stopping mechanism. No. 1,004,148; Sept. 26; Sp. p. 4365; Gaz. vol. 170; p. 774.
Clarke, Elwyn. (See Pridgen and Clarke.)
Clarke, Fred C., Winfield, Kans., assignor to The Clarke Cover Company, Pittsburg, Pa. Diamond-cover. No. 983,857; Feb. 7; Sp. p. 1285; Gaz. vol. 163; p. 206.
Clarke, George R., Montell, Tex. Self-closing farm-gate. No. 997,753; July 11; Sp. p. 2444; Gaz. vol. 168; p. 426.
Clarke, John S., East Cleveland, assignor of one-half to A. H. Langell, Cleveland, Ohio. Device for cranking automobiles. No. 1,006,063; Oct. 17; Sp. p. 3268; Gaz. vol. 171; p. 585.
Clarke, John S., East Cleveland, assignor of one-half to A. H. Langell, Cleveland, Ohio. Starting device for automobile-engines. No. 1,006,064; Oct. 17; Sp. p. 3271; Gaz. vol. 171; p. 585.

Clarke, John S., East Cleveland, assignor of one-third to A. H. Langell and one-third to C. R. Wedler, Cleveland, Ohio. Steering apparatus for vessels. No. 998,158; July 18; Sp. p. 3376; Gaz. vol. 168; p. 609.
Clarke, John S., East Cleveland, assignor of one-third to A. H. Langell and one-third to C. R. Wedler, Cleveland, Ohio. Device for blowing whistles on vessels. No. 998,159; July 18; Sp. p. 3377; Gaz. vol. 168; p. 609.
Clarke, John T. (See Hillman, Henry G., assignor.)
Clarke, Joseph I. C., New York, N. Y. Airship. No. 989,834; Apr. 18; Sp. p. 3314; Gaz. vol. 165; p. 579.
Clarke, Joseph T., Harrow, England, assignor to Eastman Kodak Co., Rochester, N. Y. Photographic negative. No. 986,443; Mar. 14; Sp. p. 1454; Gaz. vol. 164; p. 262.
Clarke, Lemuel H., and J. H. Dorton, Camden, N. J. Battery chute or well. No. 1,012,246; Dec. 19; Sp. p. 4164; Gaz. vol. 173; p. 714.
Clarke, Louis S., Haverford, assignor to The Autocar Company, Ardmore, Pa. Planetary-gear mechanism. No. 980,407; Jan. 3; Sp. p. 471; Gaz. vol. 162; p. 81.
Clarke, Louis S., Haverford, assignor to The Autocar Company, Ardmore, Pa. Motor-vehicle. No. 980,603; Jan. 3; Sp. p. 922; Gaz. vol. 162; p. 149.
Clarke, Mary M., Des Moines, Iowa. Fish-scaling tool. No. 1,000,073; Aug. 8; Sp. p. 1790; Gaz. vol. 169; p. 329.
Clarke, Matthew, Wilkes-Barre, Pa. Clinometer. No. 986,140; Mar. 7; Sp. p. 798; Gaz. vol. 164; p. 129.
Clarke, Matthew, Wilkes-Barre, Pa. Compound measuring instrument. No. 1,007,269; Oct. 31; Sp. p. 5988; Gaz. vol. 171; p. 1093.
Clarke, Oliver C., *et al.* (See Limbert, Samuel H., assignor.)
Clarke, Peete B., Liverpool, England. Telephone instrument. No. 1,004,995; Oct. 3; Sp. p. 939; Gaz. vol. 171; p. 156.
Clarke, Ralph S., Walpole, assignor to C. S. Bird, East Walpole, Mass. Container-closing machine. No. 992,112; May 9; Sp. p. 2701; Gaz. vol. 166; p. 478.
Clarke, Robert, Brooklyn, N. Y. Protector for drinking-glasses, &c. No. 1,000,581; Aug. 15; Sp. p. 2947; Gaz. vol. 169; p. 539.
Clarke, St. John, Bogota, N. J., and R. Welcker, Yonkers, N. Y. Apparatus for mixing and delivering concrete and the like materials. No. 995,422; June 13; Sp. p. 2886; Gaz. vol. 167; p. 490.
Clarke, Thomas W. K., Surbiton, England. Aeronautical machine. No. 996,061; June 27; Sp. p. 4279; Gaz. vol. 167; p. 777.
Clarke, Walter H., Huntington Park, Cal. Wiping and rubbing device. No. 1,006,630; Oct. 24; Sp. p. 4581; Gaz. vol. 171; p. 817.
Clarke, William H., Chicago, Ill. System of electrical distribution. No. 1,006,631; Oct. 24; Sp. p. 4582; Gaz. vol. 171; p. 817.
Clarkson, Charlie C. (See Lower, Prince E., assignor.)
Clarkson, Edwin S. (See Simms, Harold H., assignor.)
Clarkson, William, Corsicana, Tex. Die for sash-weights. No. 995,325; June 13; Sp. p. 2626; Gaz. vol. 167; p. 455.
Clary, Burton N., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Fastening-inserting mechanism. No. 1,003,984; Sept. 26; Sp. p. 3940; Gaz. vol. 170; p. 715.
Clason Architectural Metal Works, The. (See Cummings, Willard H., assignor.)
Classen Lignum Company. (See George, John K., assignor.)
Claude, Georges, assignor to La Societe l'Air Liquide, Paris, France. Liquefaction of air and its separation into its constituents. No. 981,748; Jan. 17; Sp. p. 3500; Gaz. vol. 162; p. 593.
Clauder, Arthur W., Bridgeport, Conn., assignor to Union Typewriter Company, Jersey City, N. J. Adding-machine. No. 996,976; July 4; Sp. p. 789; Gaz. vol. 168; p. 129.
Clauder, Arthur W., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 998,467; July 18; Sp. p. 4062; Gaz. vol. 168; p. 720.
Claudin, John L., Morton, Ill. Combined hay, grain, and stock rack. No. 989,118; Apr. 11; Sp. p. 1734; Gaz. vol. 165; p. 302.
Claus, Emil A. (See Claussen and Claus.)
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 992,165; May 16; Sp. p. 2835; Gaz. vol. 166; p. 528.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 994,302; June 6; Sp. p. 408; Gaz. vol. 167; p. 69.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 994,719; June 13; Sp. p. 1346; Gaz. vol. 167; p. 253.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,002,222; Sept. 5; Sp. p. 64; Gaz. vol. 170; p. 7.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Subscriber's telephone apparatus. No. 1,010,478; Dec. 5; Sp. p. 176; Gaz. vol. 173; p. 29.
Clausen, Henry P., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone-transmitter. No. 1,010,590; Dec. 5; Sp. p. 423; Gaz. vol. 173; p. 67.
Clauss, Henrie, Fremont, Ohio. Stropping-machine. No. 985,975; Mar. 7; Sp. p. 473; Gaz. vol. 164; p. 76.
Clauss, William, Cincinnati, Ohio. Bake-oven. No. 1,003,133; Sept. 12; Sp. p. 2089; Gaz. vol. 170; p. 360.
Claussen, Edward E., Hartford, Conn. Concentrating milk. No. 993,224; May 23; Sp. p. 5122; Gaz. vol. 166; p. 923.
Claussen, Edward E., Hartford, Conn. Mouthpiece. No. 1,007,919; Nov. 7; Sp. p. 622; Gaz. vol. 172; p. 96.
Claussen, Edward E., Hartford, Conn. Coin-controlled apparatus. No. 1,010,861; Dec. 5; Sp. p. 1034; Gaz. vol. 173; p. 161.
Claussen, Edward E., and E. A. Claus, Hartford, Conn. Waterproof paper cup. No. 1,006,722; Oct. 24; Sp. p. 4746; Gaz. vol. 171; p. 846.
Claussen, Hermann, Brooklyn, N. Y. Musical instrument. No. 1,010,724; Dec. 5; Sp. p. 719; Gaz. vol. 173; p. 114.
Clavel, Alexander, assignor to Färberei-U-Appretürgesellschaft vormals A. Clavel & Fritz Lindenmeyer, Basel, Switzerland. Apparatus for treating yarn in hanks with liquid. No. 990,802; Apr. 25; Sp. p. 5470; Gaz. vol. 165; p. 942.
Claviez, Emil, Adorf, Germany. Machine for making a compound paper and fiber material. No. 983,266; Feb. 7; Sp. p. 13; Gaz. vol. 163; p. 5.
Claviez, Emil, Adorf, Germany. Thread and forming same. No. 999,008; July 25; Sp. p. 5293; Gaz. vol. 168; p. 942.
Clawson, Charles F., Mount Pleasant, Iowa, assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 999,299; Aug. 1; Sp. p. 205; Gaz. vol. 169; p. 39.
Clawson, Clement C., Flagtown, N. J. Vending-machine. No. 1,006,723; Oct. 24; Sp. p. 4747; Gaz. vol. 171; p. 846.
Clawson, Danial A., Waynesville, Ill. Wire-twisting tool. No. 997,754; July 11; Sp. p. 2447; Gaz. vol. 168; p. 427.
Clawson, George E., Mooresville, Ind. Latch and lock. No. 996,977; July 4; Sp. p. 811; Gaz. vol. 168; p. 130.
Clawson, Leonard E., San Francisco, Cal. Stove. No. 991,198; May 2; Sp. p. 791; Gaz. vol. 166; p. 134.
Clawson, Leonard E., San Francisco, Cal. Arch and regulator attachment for fireplaces. No. 1,008,952; Nov. 14; Sp. p. 2953; Gaz. vol. 172; p. 493.
Claxton, Louis L., Paterson, N. J. Thermostat. No. 986,801; Mar. 14; Sp. p. 2216; Gaz. vol. 164; p. 385.
Clay, George B., Jenkintown, Pa. Door-opening device. No. 998,324; July 18; Sp. p. 3777; Gaz. vol. 168; p. 671.
Clay, Harry C., assignor to Reeves & Company, Columbus, Ind. Generator-driver. No. 989,521; Apr. 11; Sp. p. 2602; Gaz. vol. 165; p. 439.
Clay, Harry C., assignor to Reeves & Company, Columbus, Ind. Oil-pump. No. 993,292; May 23; Sp. p. 5259; Gaz. vol. 166; p. 943.
Clay, John B., and W. J. Hogue, Shelby, N. C. Cotton-seed separator. No. 1,010,235; Nov. 28; Sp. p. 5676; Gaz. vol. 172; p. 1016.
Claycomb, William T., Owensboro, Ky. Combined ventilator and heating apparatus. No. 994,057; May 30; Sp. p. 6894; Gaz. vol. 166; p. 1238.
Claypool, Frank J., Ottawa, Kans. Artificial tooth. No. 983,685; Feb. 7; Sp. p. 930; Gaz. vol. 163; p. 147.
Clayton, Alfred C., Toronto, Ontario, Canada. Water-heater. No. 993,506; May 30; Sp. p. 5744; Gaz. vol. 166; p. 1049.
Clayton Aniline Company Limited. (See Dreyfus, Friedl, and Bentley, assignors.)
Clayton, Arthur B. (See Holt and Clayton.)
Clayton, Benjamin, *et al.* (See Treese, Albert L., assignor.)
Clayton, Benjamin A., Lockhart, Miss. Switch. No. 985,658; Feb. 28; Sp. p. 5204; Gaz. vol. 163; p. 920.
Clayton, Benjamin A., Lockhart, Miss. Switch-operating mechanism. No. 1,003,876; Sept. 19; Sp. p. 3661; Gaz. vol. 170; p. 651.
Clayton, Cassius H. (See Baker, Eugene, assignor.)
Clayton, Melville G., Wallasey, assignor of one-half to R. R. Bevis, Birkenhead, England. Means or apparatus for determining and indicating stress in metal bodies. No. 996,314; June 27; Sp. p. 4883; Gaz. vol. 167; p. 861.
Clayton, Walter, Belmar, N. J. Spread-hook. No. 985,659; Feb. 28; Sp. p. 5205; Gaz. vol. 163; p. 920.
Clayton, William L., *et al.* (See Treese, Albert L., assignor.)
Clayton, William R., Chicago, Ill. Mausoleum. No. 1,002,223; Sept. 5; Sp. p. 70; Gaz. vol. 170; p. 8.
Cleal, Joseph P., Toronto, Ontario, Canada, assignor to The National Cash Register Company, Dayton, Ohio. Electric cash-register. No. 982,938; Jan. 31; Sp. p. 6064; Gaz. vol. 162; p. 1061.

Alphabetical list of patentees—Continued.

Cleal, Joseph P., Toronto, Ontario, Canada, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 998,602; July 25; Sp. p. 4357; Gaz. vol. 168; p. 798.
Cleal, Joseph P., Toronto, Ontario, Canada, and J. G. Fletcher, Pittsburg, Pa. Machine for canceling mail-matter. No. 999,009; July 25; Sp. p. 5295; Gaz. vol. 168; p. 943.
Cleal, Joseph P., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,006,358; Oct. 17; Sp. p. 3954; Gaz. vol. 171; p. 689.
Cleaning Devices Manufacturing Company. (See Little, Paul C., assignor.)
Cleary, Edward. (See Oppenheim and Cleary.)
Cleary, Joseph M., San Francisco, Cal. Hat. No. 1,009,281; Nov. 21; Sp. p. 3707; Gaz. vol. 172; p. 645.
Cleaves, William S., Revere, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Carton-marking attachment. No. 991,828; May 9; Sp. p. 2148; Gaz. vol. 166; p. 382.
Clefton Company, The. (See Filloon, Lewis F., assignor.)
Clegg Engine Syndicate Limited, The. (See Clegg, William H., assignor.)
Clegg, Lawrence H., Bury, England. Means used in the manufacture or treatment of felt and other fabric or material. No. 999,750; Aug. 8; Sp. p. 1108; Gaz. vol. 169; p. 219.
Clegg, Nelson, Neodesha, Kans. Hose-coupling for air-brakes. No. 998,841; July 25; Sp. p. 4903; Gaz. vol. 168; p. 882.
Clegg, William H., Newtown, Burnley, assignor to The Clegg Engine Syndicate Limited, Burnley, England. Rotary valve for internal-combustion engines. No. 980,761; Jan. 3; Sp. p. 1244; Gaz. vol. 162; p. 200.
Cleland, Frank O. (See Sweger, Russell L., assignor.)
Cleland, James E. (See Peck and Cleland.)
Clemens, Ferd, What Cheer, Iowa. Cement-mixer. No. 994,978; June 13; Sp. p. 1950; Gaz. vol. 167; p. 341.
Clemens, John G. (See Kaiser and Clemens.)
Clemens, John G., assignor of one-half to F. H. Kaiser, Buffalo, N. Y. Protector for polyphase electrical machinery. No. 1,012,599; Dec. 26; Sp. p. 4875; Gaz. vol. 173; p. 878.
Clément, Adolphe, Levallois-Perret, France. Engine-mounting for airships. No. 1,000,494; Aug. 15; Sp. p. 2737; Gaz. vol. 169; p. 507.
Clément, Adolphe, Levallois-Perret, France. Dirigible aerostat and the like. No. 1,000,495; Aug. 15; Sp. p. 2739; Gaz. vol. 169; p. 507.
Clément, Antoine M., New York, N. Y. Internal-combustion engine. No. 1,001,506; Aug. 22; Sp. p. 4916; Gaz. vol. 169; p. 888.
Clément, Antoine M., New York, N. Y. Automobile air-pump. No. 1,002,035; Aug. 29; Sp. p. 6072; Gaz. vol. 169; p. 1098.
Clement, Edward E., Washington, D. C. Electrical sound-producing device. No. 1,002,036; Aug. 29; Sp. p. 6076; Gaz. vol. 169; p. 1098.
Clement, Edward E., Washington, D. C. Sender for automatic telephone systems. No. 1,002,563; Sept. 5; Sp. p. 858; Gaz. vol. 170; p. 126.
Clement, Edward E., Washington, D. C. Relaying electrical currents. No. 1,003,337; Sept. 12; Sp. p. 2521; Gaz. vol. 170; p. 434.
Clement, Edward E., Washington, D. C. Recording and reproducing sounds or signals. No. 1,011,322; Dec. 12; Sp. p. 2100; Gaz. vol. 173; p. 358.
Clement, Edward E., Washington, D. C., assignor to The North Electric Company, Cleveland, Ohio. Electrical relay. No. 990,032; Apr. 18; Sp. p. 3732; Gaz. vol. 165; p. 646.
Clement, Edward E., Washington, D. C., assignor to The North Electric Company, Cleveland, Ohio. Electrical relay. No. 991,829; May 9; Sp. p. 2150; Gaz. vol. 166; p. 383.
Clement, Frank H., and L. B. Whipple, assignors to American Wood Working Machinery Co., Rochester, N. Y. Self-feeding jointer. No. 1,001,579; Aug. 22; Sp. p. 5066; Gaz. vol. 169; p. 912.
Clement, James. (See McNeill and Clement.)
Clément, Léon A., Mexico, Mexico. Tobacco-feeding device. No. 991,277; May 2; Sp. p. 967; Gaz vol. 166; p. 163.
Clement, Lewis J., Carnduff, Saskatchewan, Canada. Shocking-machine. No. 1,004,370; Sept. 26; Sp. p. 4802; Gaz. vol. 170; p. 848.
Clement, Robert B., Crayne, Ky. Clamp. No. 1,012,600; Dec. 26; Sp. p. 4878; Gaz. vol. 173; p. 879.
Clements, Alfred. (See Knee, Lucious C., assignor.)
Clements, Charles F., Peoria, assignor to Camp Bros. Co., Washington, Ill. Elevator-drag. No. 993,650; May 30; Sp. p. 6059; Gaz. vol. 166; p. 1100.
Clements, Charles J., New York, N. Y. Expansion-bolt. No. 981,382; Jan. 10; Sp. p. 2758; Gaz. vol. 162; p. 448.
Clements, Charles J., Brooklyn, N. Y. Bolt-anchor. No. 983,479; Feb. 7; Sp. p. 480; Gaz. vol. 163; p. 76.
Clements, Charles J., Brooklyn, N. Y. Toggle-bolt. No. 991,426; May 2; Sp. p. 1272; Gaz. vol. 166; p. 213.
Clements, Charles J., Brooklyn, N. Y. Toggle-bolt. No. 991,427; May 2; Sp. p. 1274; Gaz. vol. 166; p. 213.
Clements, Charles J., Brooklyn, N. Y. Drill. No. 991,830; May 9; Sp. p. 2153; Gaz. vol. 166; p. 383.
Clements Co., The. (See Kennedy, Joseph, assignor.)
Clements, Eugene F., Philadelphia, Pa. Fan attachment for baby-carriages. No. 1,007,920; Nov. 7; Sp. p. 623; Gaz. vol. 172; p. 96.
Clements, George F. (See Gilman and Clements.)
Clements, George W., Richmond, Ind. Registering car-step. No. 989,764; Apr. 18; Sp. p. 3151; Gaz. vol. 165; p. 553.
Clements, Roy, *et al.* (See Glassburn and Evans, assignors.)
Clements, Williard B., Veedum, Wis. Apparatus for generating electric currents. No. 1,010,591; Dec. 5; Sp. p. 424; Gaz. vol. 173; p. 68.
Clemow, William, C. L. Heid, and A. W. Speicher, Carbondale, Pa. Tooth-extractor. No. 1,010,862; Dec. 5; Sp. p. 1038; Gaz. vol. 173; p. 162.
Clendenning, George A., Mulberry, Ind. Belt-stretching device. No. 980,490; Jan. 3; Sp. p. 683; Gaz. vol. 162; p. 110.
Clennell, Frank, Wellington, and F. W. Thorp, Motueka, New Zealand. Ship's propeller. No. 1,008,953; Nov. 14; Sp. p. 2954; Gaz. vol. 172; p. 493.
Clenny, James E., and W. H. Fairchild, Chicago, Ill., assignors to The Sefton Manufacturing Company, Anderson, Ind. Packing or shipping box. No. 987,958; Mar. 28; Sp. p. 4716; Gaz. vol. 164; p. 842.
Clerc, Frank L., Boulder, Colo. Metallurgy of zinc. No. 1,002,037; Aug. 29; Sp. p. 6078; Gaz. vol. 169; p. 1099.
Clerc, Frank L., Boulder, Colo. Metallurgy of zinc. No. 1,012,816; Dec. 26; Sp. p. 5384; Gaz. vol. 173; p. 955.
Cléret, Albert, Paris, France. Bulb for automobile-horns and the like. No. 1,011,158; Dec. 12; Sp. p. 1702; Gaz. vol. 173; p. 299.
Clerk, Dugald, Ewhurst, England. Internal-combustion engine. No. 983,206; Jan. 31; Sp. p. 6607; Gaz. vol. 162; p. 1150.
Clerkin, William, assignor to The Taplin-Rice, Clerkin Company, Akron, Ohio. Fire-pot for stoves and furnaces. No. 1,006,466; Oct. 24; Sp. p. 4198; Gaz. vol. 171; p. 756.
Clerkin, William, assignor to The Taplin-Rice, Clerkin Company, Akron, Ohio. Furnace. No. 1,011,411; Dec. 12; Sp. p. 2269; Gaz. vol. 173; p. 387.
Cleveland Automatic Street Flushing and Nozzle Company. (See Jackson, George, assignor.)
Cleveland Car Specialty Company. (See Costello, Joseph A., assignor.)
Cleveland Gas and Electric Fixture Company, The. (See Mitchell, Edward P., assignor.)
Cleveland Gas Mantle and Supply Company, The. (See Lister, John T., assignor.)
Cleveland, George E., Fairmount, assignor, by mesne assignments, to Cleveland Machine Company, Marion, Ind. Machine for making articles of glass. No. 987,671; Mar. 21; Sp. p. 4011; Gaz. vol. 164; p. 714.
Cleveland Macaroni Company, The. (See Gammel, Karl, assignor.)
Cleveland Machine Company. (See Cleveland, George E., assignor.)
Cleveland Pneumatic Tool Company, The. (See Scott, Arthur, assignor.)
Cleveland Steel Tool Company, The. (See Silliman, Benjamin F., assignor.)
Cleveland Stone Company, The. (See Sterling, David L., assignor.)
Cleveland Twist Drill Company, The. (See Peck, Eugene C., assignor.)
Cleveland Vibrator & Electrical Company, The. (See Ruprecht, Charles C., assignor.)
Cleveland, William B., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail-bond. No. 994,818; June 13; Sp. p. 1572; Gaz. vol. 167; p. 288.
Cleveland, William B., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Bonding rails. No. 994,908; June 13; Sp. p. 1810; Gaz. vol. 167; p. 318.
Clevenger, J. P., *et al.* (See Tatum, Franklin M., assignor.)
Clevenger, Shobal V., Park Ridge, Ill. Type-writing machine. No. 1,005,158; Oct. 10; Sp. p. 1251; Gaz. vol. 171; p. 233.
Cliff, Edward R., New York, N. Y. Constant-current regulator. No. 988,312; Apr. 4; Sp. p. 28; Gaz. vol. 165; p. 8.
Clifford, Arthur B., Braintree, Mass. Resilient wheel. No. 989,567; Apr. 18; Sp. p. 2731; Gaz. vol. 165; p. 487.
Clifford, Charles, St. Paul, Minn. Bed-spring frame. No. 984,122; Feb. 14; Sp. p. 1886; Gaz. vol. 163; p. 324.
Clifford, George R., Chicago, Ill. Hydroplane vessel. No. 998,278; July 18; Sp. p. 3658; Gaz. vol. 168; p. 653.
Clifford, Harry F., Concord, N. H. Tool-holder. No. 993,759; May 30; Sp. p. 6311; Gaz. vol. 166; p. 1139.
Clifford, Herbert, New Haven, Conn. Suspension-wheel. No. 996,315; June 27; Sp. p. 4886; Gaz. vol. 167; p. 861.
Clifford, John, and J. H. Gavin, assignors to L. Wolff Manufacturing Company, Chicago, Ill. Water-closet. No. 1,011,159; Dec. 12; Sp. p. 1703; Gaz. vol. 173; p. 299.
Climax Machinery Company. (See Hood and Campbell, assignors.)

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Clinch, Charles S., Lynn, Mass. Bow for apparel. No. 1,005,415; Oct. 10; Sp. p. 1834; Gaz. vol. 171; p. 326.
Clinch, Charles S., assignor to Shoe City Novelty Co., Lynn, Mass. Ornament or imitation buckle for shoes. No. 980,205; Jan. 3; Sp. p. 58; Gaz. vol. 162; p. 12.
Cline, Albert, Indianapolis, Ind. Burglar-alarm. No. 1,003,234; Sept. 12; Sp. p. 2319; Gaz. vol. 170; p. 398.
Cline, Allan J., Chicago, Ill. Current-controlling device. No. 991,481; May 9; Sp. p. 1394; Gaz. vol. 166; p. 263.
Cline, Samuel, assignor to G. A. Reach, Philadelphia, Pa. Base-ball glove. No. 1,003,031; Sept. 12; Sp. p. 1883; Gaz. vol. 170; p. 325.
Clinton Wire Cloth Company. (See Smith, Herbert L., assignor.)
Clipper Novelty Company, The. (See Bonta, Frank M., assignor.)
Clites, William, Elliott, Iowa. Headlight for vehicles. No. 1,001,730; Aug. 29; Sp. p. 5396; Gaz. vol. 169; p. 995.
Clookie, William E., Lakeview, N. J. Winding-machine. No. 995,768; June 20; Sp. p. 3671; Gaz. vol. 167; p. 640.
Clorius, Axel V., Copenhagen, Denmark. Valve. No. 985,146; Feb. 28; Sp. p. 4081; Gaz. vol. 163; p. 744.
Close, Clifton H., *et al.* (See Bartosik, Joseph F., assignor.)
Close, Edmund E., assignor of two-fifths to R. L. Greenleaf, Brockton, Mass. Nut-lock. No. 1,002,197; Aug. 29; Sp. p. 6387; Gaz. vol. 169; p. 1151.
Close, Frederick B., Los Angeles, Cal., assignor to Olds Gas Power Company, Lansing, Mich. Hoisting-drum. No. 997,903; July 11; Sp. p. 2793; Gaz. vol. 168; p. 477.
Clothmeter Manufacturing Company. (See Heckel and Spellmeyer, assignors.)
Clough, Edwin S., assignor of one-half to H. Blekum, Seattle, Wash. Releasable connection. No. 997,438; July 11; Sp. p. 1746; Gaz. vol. 168; p. 317.
Clouse, William L., assignor to National Machinery Co., Tiffin, Ohio. Nut-burring machine. No. 989,119; Apr. 11; Sp. p. 1735; Gaz. vol. 165; p. 302.
Cloutier, John B., Saco, Me., assignor to Crompton & Knowles Loom Works. Loom shuttle-check. No. 1,005,159; Oct. 10; Sp. p. 1254; Gaz. vol. 171; p. 233.
Clow, Charles W., *et al.* (See Clow, William C., assignor.)
Clow, James H., *et al.* (See Clow, William C., assignor.)
Clow, William C., assignor of one-half to C. S. Dunning, Portland, Oreg. Animal-trap. No. 999,751; Aug. 8; Sp. p. 1109; Gaz. vol. 169; p. 220.
Clow, William C., assignor of one-fourth to C. W. Clow and one-fourth to J. H. Clow, Portland, Oreg. Jeweler's clamp. No. 1,009,895; Nov. 28; Sp. p. 4982; Gaz. vol. 172; p. 900.
Clow, William E., Chicago, Ill. Pipe-cleaning machine. No. 983,980; Feb. 14; Sp. p. 1587; Gaz. vol. 163; p. 276.
Clucus, Charles R., Chicago, Ill. Bed-bottom. No. 986,141; Mar. 7; Sp. p. 800; Gaz. vol. 164; p. 130.
Clulee, Stephen J., Attleboro, Mass. Eyeglass-mounting. No. 995,661; June 20; Sp. p. 3424; Gaz. vol. 167; p. 603.
Clulee, Stephen J., Attleboro, Mass., assignor to Bay State Optical Company. Eyeglasses. No. 996,062; June 27; Sp. p. 4280; Gaz. vol. 167; p. 777.
Clutch, Charles C. (See Moffett and Clutch.)
Cluthe, Gustave, Cincinnati, Ohio. Device for removing char from barrels. No. 999,208; Aug. 1; Sp. p. 33; Gaz. vol. 169; p. 8.
Clutter, J. Marion. (See Mims, William B., assignor.)
Cluxton, Manley W., Chicago, Ill. Metal sheet-piling. No. 981,749; Jan. 17; Sp. p. 3503; Gaz. vol. 162; p. 594.
Clyde Iron Works. (See McGiffert, John R., assignor.)
Clymans, Ezra G., and A. M. Hess, assignors to The Geiser Manufacturing Company, Waynesboro, Pa. Cleaning mechanism. No. 990,803; Apr. 25; Sp. p. 5472; Gaz. vol. 165; p. 942.
Clymans, Ezra G., and A. M. Hess, assignors to The Geiser Manufacturing Company, Waynesboro, Pa. Grain-separator. No. 990,804; Apr. 25; Sp. p. 5474; Gaz. vol. 165; p. 943.
Clymer, Frederick, Belmar, N. J., assignor to United Revolving Door Company. Revolving door. No. 990,227; Apr. 25; Sp. p. 4147; Gaz. vol. 165; p. 742.
Clyne, Robert G., Upper Alton, assignor to Western Cartridge Company, East Alton, Ill. Cartridge. No. 1,002,038; Aug. 29; Sp. p. 6080; Gaz. vol. 169; p. 1099.
Clyne, Robert G., Upper Alton, assignor to Western Cartridge Company, East Alton, Ill. Paper shot-shell. No. 1,006,828; Oct. 24; Sp. p. 5009; Gaz. vol. 171; p. 885.
Coale, Harvey, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Closure. No. 989,336; Apr. 11; Sp. p. 2219; Gaz. vol. 165; p. 376.
Coale, Harvey, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Process of packaging. No. 989,337; Apr. 11; Sp. p. 2221; Gaz. vol. 165; p. 377.
Coan, James, Westville, assignor of one-half to C. F. Cook, Danville, Ill. Trolley-pole. No. 1,001,251; Aug. 22; Sp. p. 4411; Gaz. vol. 169; p. 802.
Coaske, Arthur, Memphis, Tenn. Toy. No. 983,207; Jan. 31; Sp. p. 6609; Gaz. vol. 162; p. 1150.
Coates, Charles B., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Electric tool. No. 996,833; July 4; Sp. p. 474; Gaz. vol. 168; p. 79.
Coates, Edmond H., Chattanooga, Tenn., assignor to J. B. Carroll, Chicago, Ill. Coupon-book. No. 982,127; Jan. 17; Sp. p. 4344; Gaz. vol. 162; p. 725.
Coates, Frederic J., Philadelphia, Pa. Safety attachment for aerocraft. No. 1,004,742; Oct. 3; Sp. p. 425; Gaz. vol. 171; p. 70.
Coates, Frederick, Springfield, Mass., assignor to F. M. Burt Company Limited, Toronto, Canada. Box-labeling machine. No. 1,012,191; Dec. 19; Sp. p. 4039; Gaz. vol. 173; p. 696.
Coates, George F., Rutherford, N. J. Device to be used in monotype-machines. No. 1,011,581; Dec. 12; Sp. p. 2689; Gaz. vol. 173; p. 451.
Coates, Jesse, Lynn, Mass., assignor to General Electric Company. Armature. No. 994,058; May 30; Sp. p. 6896; Gaz. vol. 166; p. 1239.
Coates, Leonard R., Baltimore, Md. Manufacture of fertilizers. (Reissue.) No. 13,302; Oct. 31; Sp. p. 6834; Gaz. vol. 171; p. 1229.
Coates, Robert, Washington, D. C. Agricultural implement. No. 992,543; May 16; Sp. p. 3696; Gaz. vol. 166; p. 661.
Coates, Walton L., Santa Cruz, Cal. Milk-can cover. No. 997,180; July 4; Sp. p. 1233; Gaz. vol. 168; p. 199.
Coats, James G., *et al.* (See Thompson, David D., assignor.)
Cobb, Alfred L., assignor of twenty-four and one-half one-hundredths to H. E. James and twenty-four and one-half one-hundredths to H. P. James, Estes Park, Colo. Clamp. No. 1,004,743; Oct. 3; Sp. p. 426; Gaz. vol. 171; p. 71.
Cobb, Benjamin F., Denver, Colo. Ore-concentrator. No. 996,834; July 4; Sp. p. 478; Gaz. vol. 168; p. 79.
Cobb, Benjamin F., Denver, Colo. Concentrator. No. 1,010,348; Nov. 28; Sp. p. 5909; Gaz. vol. 172; p. 1052.
Cobb, Elmer M., South Portland, assignor to E. M. Lang, Jr., Portland, Me. Machine for making solder-hemmed caps. No. 983,208; Jan. 31; Sp. p. 6610; Gaz. vol. 162; p. 1150.
Cobb, Elmer M., South Portland, assignor to E. M. Lang, Jr., Portland, Me. Machine for making solder-hemmed caps. No. 1,009,474; Nov. 21; Sp. p. 4136; Gaz. vol. 172; p. 714.
Cobb, George S. (See Barrow and Cobb.)
Cobb, Henry Z., Winchester, assignor to Revere Rubber Company, Boston, Mass. Manufacture of rubber hose. No. 1,002,644; Sept. 5; Sp. p. 1028; Gaz. vol. 170; p. 154.
Cobb, Herbert F., Cleveland, Ohio. Reinforcement for structures of concrete. No. 989,120; Apr. 11; Sp. p. 1737; Gaz. vol. 165; p. 303.
Cobb, James M. (See Millner and Cobb.)
Cobb, Leon H., assignor of one-fifth to C. A. Anderson, Brockton, Mass. Revolving cabinet. No. 997,965; July 18; Sp. p. 2948; Gaz. vol. 168; p. 541.
Cobb, Levi, Rensselaer Falls, N. Y. Fodder-tie. No. 983,686; Feb. 7; Sp. p. 932; Gaz. vol. 163; p. 148.
Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Automatic firearm. No. 992,854; May 23; Sp. p. 4336; Gaz. vol. 166; p. 798.
Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Safety-razor. No. 996,617; July 4; Sp. p. 50; Gaz. vol. 168; p. 10.
Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Ejector for firearms. No. 999,209; Aug. 1; Sp. p. 34; Gaz. vol. 169; p. 8.
Cobb, Lyman H., assignor to M. E. Johnson, trustee, Fitchburg, Mass. Firearm. No. 1,009,282; Nov. 21; Sp. p. 3708; Gaz. vol. 172; p. 645.
Cobb, William S., Flushing, N. Y. Sound-distributing horn. No. 986,908; Mar. 14; Sp. p. 2448; Gaz. vol. 164; p. 423.
Coble, Grady W., Greensboro, N. C. Receptacle for holding matches, toothpicks, or the like. No. 982,411; Jan. 24; Sp. p. 4934; Gaz. vol. 162; p. 854.
Coble, Harvey E., Los Angeles, Cal. Snap-hook. No. 990,526; Apr. 25; Sp. p. 4864; Gaz. vol. 165; p. 849.
Cochran, Charles W., Athens, Tenn. Attachment for telephone-desks. No. 982,795; Jan. 31; Sp. p. 5748; Gaz. vol. 162; p. 1013.
Cochran, Edward A., assignor of three-sixteenths to L. Seidenberg and three-sixteenths to G. M. Davis, San Francisco, Cal. Watch stem winder and pendent set. No. 1,007,430; Oct. 31; Sp. p. 6330; Gaz. vol. 171; p. 1150.
Cochran, Frederick, Assumption, Ill. Plowshare. No. 1,005,416; Oct. 10; Sp. p. 1835; Gaz. vol. 171; p. 327.
Cochran, George T., Hundred, W. Va. Churn. No. 1,008,241; Nov. 7; Sp. p. 1281; Gaz. vol. 172; p. 209.
Cochran, James, assignor to The Niagara Cotton & Batting Company, Lockport, N. Y. Bat cutting and rolling machine. No. 1,007,921; Nov. 7; Sp. p. 624; Gaz. vol. 172; p. 96.
Cochran, John J., San Francisco, Cal. Hose-coupling. No. 1,010,236; Nov. 28; Sp. p. 5678; Gaz. vol. 172; p. 1016.
Cochran, Joseph E. (See Mayer, George M., assignor.)
Cochran, Robert B., Jr., Charlotte, N. C. Machine for manufacturing bottle-crowns. No. 1,006,997; Oct. 24; Sp. p. 5370; Gaz. vol. 171; p. 942.
Cochrane, David H. (See Cochrane, John A. and D. H.)

Cochrane, John A. and D. H., Cleveland, Ohio. Quick-closing faucet. No. 1,007,338; Oct. 31; Sp. p. 6127; Gaz. vol. 171; p. 1118.
Cochrane, Josephine G., Chicago, Ill. Dish-washing machine. No. 1,009,223; Nov. 21; Sp. p. 3575; Gaz. vol. 172; p. 625.
Cochrane, Ralph D., Norbury, England. Miner's lamp. No. 994,123; June 6; Sp. p. 42; Gaz. vol. 167; p. 9.
Cochrane, Ralph D., Hetton-le-Hole, England. Means for quenching and arresting fires in mines. No. 1,000,236; Aug. 8; Sp. p. 2164; Gaz. vol. 169; p. 385.
Cochrane, Robert B., assignor to A. H. Ingle, Rochester, N. Y. Package-wrapping machine. No. 996,213; June 27; Sp. p. 4642; Gaz. vol. 167; p. 828.
Cock, George H., Brazil, Ind. Fence-tie. No. 986,545; Mar. 14; Sp. p. 1678; Gaz. vol. 164; p. 297.
Cockburn, Sidney M., J. R. and J. Temperley, Westminster, England. Water-tube steam-boiler. No. 996,401; June 27; Sp. p. 5069; Gaz. vol. 167; p. 892.
Cocke, William I., Port Washington, N. Y. Respirator. No. 1,007,644; Oct. 31; Sp. p. 6794; Gaz. vol. 171; p. 1221.
Cocker, John A., Joliet, assignor to American Steel & Wire Company, Chicago, Ill. Fence-clamp. No. 995,525; June 20; Sp. p. 3117; Gaz. vol. 167; p. 554.
Cockerell, Andrew J., Chillicothe, Ohio. Frost-water shield for gas-meters. No. 987,111; Mar. 21; Sp. p. 2816; Gaz. vol. 164; p. 518.
Cockerell, Lewis. (See Keightley and Cockerell.)
Cockrum, Leeland V., Kirksville, Mo. Poultry-feeder. No. 996,214; June 27; Sp. p. 4646; Gaz. vol. 167; p. 829.
Coconis, Constantine, Boston, Mass., assignor of one-half to E. Athanassiades, New York, N. Y. Machine for making cigarettes. No. 983,480; Feb. 7; Sp. p. 482; Gaz. vol. 163; p. 77.
Codd, William C., *et al.* (See Braddock, Isaac A., assignor.)
Coddington, George D. C., West Middletown, Ohio. Machine for molding sealing-wax. No. 993,321; May 23; Sp. p. 5316; Gaz. vol. 166; p. 951.
Codman, Franklin L. and John C. (See Codman and Worch, assignors.)
Codman, John C., Detroit, Mich., and F. W. Worch, Mattapan, assignors to F. L. and J. C. Codman, South Boston, Mass. Buffing or polishing wheel. No. 981,841; Jan. 17; Sp. p. 3715; Gaz. vol. 162; p. 628.
Coe, Benjamin S., assignor to The Coe-Stapley Manufacturing Company, Bridgeport, Conn. Tire-pump. No. 990,838; May 2; Sp. p. 21; Gaz. vol. 166; p. 6.
Coe Brass Manufacturing Company. (See Smith, Lester C., assignor.)
Coe, Charles A., Lewis, Iowa. Veterinary obstetrical forceps. No. 1,009,475; Nov. 21; Sp. p. 4146; Gaz. vol. 172; p. 714.
Coe, Charles E., assignor of one-half to E. B. Bicker, St. Louis, Mo. Aerial projectile toy. No. 991,138; May 2; Sp. p. 660; Gaz. vol. 166; p. 112.
Coe, Charles E., assignor of one-half to E. B. Bicker, St. Louis, Mo. Spinning-top. No. 1,003,985; Sept. 26; Sp. p. 3944; Gaz. vol. 170; p. 716.
Coe, Harry P., assignor to The Coe Manufacturing Company, Painesville, Ohio. Drier. No. 1,000,376; Aug. 15; Sp. p. 2482; Gaz. vol. 169; p. 464.
Coe, Henry L., assignor to The Warren Paint Company, Warren, Ohio. Agitator. No. 1,008,010; Nov. 7; Sp. p. 790; Gaz. vol. 172; p. 125.
Coe, John B., assignor of one-half to F. E. Smith, Boston, Mass. Blow-lamp. No. 1,009,132; Nov. 21; Sp. p. 3342; Gaz. vol. 172; p. 591.
Coe Manufacturing Company, The. (See Coe, Harry P., assignor.)
Coe, S. W. (See Werden, Edward W., assignor.)
Coe, Sara L. W., and H. Werden, New York, N. Y. Vending-machine. No. 994,059; May 30; Sp. p. 6897; Gaz. vol. 166; p. 1239.
Coe-Stapley Manufacturing Company, The. (See Coe, Benjamin S., assignor.)
Coey, Charles A. (See De Clements, George W., assignor.)
Coffee, Robert W., Richmond, Va., assignor to L. M. Keizer, Baltimore, Md. Internal-combustion engine. No. 982,251; Jan. 24; Sp. p. 4588; Gaz. vol. 162; p. 797.
Coffey, Barney, *et al.* (See Heron, Christopher, assignor.)
Coffey, Barton H., Elizabeth, N. J., assignor to The Mitchell-Tappen Company, New York, N. Y. Device for cooling liquids. No. 1,010,020; Nov. 28; Sp. p. 5260; Gaz. vol. 172; p. 943.
Coffey, John J., Bridgeport, Conn. Fender for elevators. No. 1,004,744; Oct. 3; Sp. p. 427; Gaz. vol. 171; p. 71.
Coffield Motor Washer Company, The. (See Coffield, Peter T., assignor.)
Coffield, Peter T., assignor to The Coffield Motor Washer Company, Dayton, Ohio. Water-motor. No. 1,001,821; Aug. 29; Sp. p. 5597; Gaz. vol. 169; p. 1027.
Coffield, Peter T., assignor to The Coffield Motor Washer Company, Dayton, Ohio. Water-motor. No. 1,008,954; Nov. 14; Sp. p. 2957; Gaz. vol. 172; p. 494.
Coffin, Algernon B., Apache, Okla. Pencil-holder. No. 1,003,032; Sept. 12; Sp. p. 1884; Gaz. vol. 170; p. 325.
Coffin, Francis P., Schenectady, N. Y., assignor to General Electric Company. Mercury-rectifier. No. 1,011,160; Dec. 12; Sp. p. 1705; Gaz. vol. 173; p. 300.
Coffin, Howard E., Detroit, Mich. Vehicle assembly-stand. No. 1,001,619; Aug. 29; Sp. p. 5163; Gaz. vol. 169; p. 957.
Coffin, Howard E., assignor to Chalmers-Detroit Motor Company, Detroit, Mich. Explosion-engine. No. 992,482; May 16; Sp. p. 3564; Gaz. vol. 166; p. 638.
Coffin, Howard E., assignor to The Chalmers Motor Company, Detroit, Mich. Explosion-engine. No. 1,011,748; Dec. 12; Sp. p. 3036; Gaz. vol. 173; p. 507.
Coffin, Howard E., assignor to E. R. Thomas Detroit Co., Detroit, Mich. Controlling mechanism for automobiles. No. 1,007,673; Nov. 7; Sp. p. 28; Gaz. vol. 172; p. 8.
Coffin Valve Company. (See McAvinney, Patrick F., assignor.)
Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Brake mechanism. No. 994,698; June 6; Sp. p. 1269; Gaz. vol. 167; p. 207.
Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Chain-hole cover-plate for car-couplings. No. 997,181; July 4; Sp. p. 1234; Gaz. vol. 168; p. 200.
Coffin, Walter E., assignor to The National Malleable Castings Company, Cleveland, Ohio. Uncoupling-rod for car-couplings. No. 1,012,986; Dec. 26; Sp. p. 5784; Gaz. vol. 173; p. 1012.
Coffman, Albert. (See Craig and Coffman.)
Coffman, Walter M., Madison, Wis., assignor, by mesne assignments, to General Electric Company. Thrust-bearing. No. 996,457; June 27; Sp. p. 5203; Gaz. vol. 167; p. 912.
Coffron, John B., Eugene, Oreg. Tractor. No. 983,256; Jan. 31; Sp. p. 6736; Gaz. vol. 162; p. 1168.
Coffron, Rutherford, assignor of one-half to A. Cowsill, Washington, D. C. Blade-clamp for saw-frames. No. 990,839; May 2; Sp. p. 22; Gaz. vol. 166; p. 6.
Cofrode, Parker, Johnstown, Pa. Folding portable closet. No. 997,270; July 11; Sp. p. 1418; Gaz. vol. 168; p. 261.
Cogger, William B., Cleveland, Ohio. Ink-well. No. 993,347; May 30; Sp. p. 5393; Gaz. vol. 166; p. 996.
Cogger, William B., Cleveland, assignor to T. Kundtz, Lakewood, Ohio. Standard for school-desks and other objects. No. 998,074; July 18; Sp. p. 3198; Gaz. vol. 168; p. 579.
Coggeshall, George W., Dedham, Mass. Preparing materials for furnacing. No. 987,554; Mar. 21; Sp. p. 3760; Gaz. vol. 164; p. 672.
Coghe, Andrew J., Pittsburg, Pa. Collapsible box and crate. No. 997,755; July 11; Sp. p. 2448; Gaz. vol. 168; p. 427.
Coghill, David, assignor of one-half to T. M. Gibson, Toronto, Ontario, Canada. Attachment to sewing-machines. No. 998,956; July 25; Sp. p. 5180; Gaz. vol. 168; p. 925.
Cogil, Joseph, Central City, Nebr. Wind-shield. No. 1,004,850; Oct. 3; Sp. p. 657; Gaz. vol. 171; p. 107.
Cogley, Glen B., Everson, assignor of one-half G. H. Meyers, Kittanning, Pa. Check-valve for cuspidors. No. 988,929; Apr. 4; Sp. p. 1333; Gaz. vol. 165; p. 214.
Cogswell, Asa F., Kirwin, Kans. Electrical device for controlling unruly animals. No. 987,345; Mar. 21; Sp. p. 3353; Gaz. vol. 164; p. 602.
Cogswell, Lewis W., Taylorville, Ill. Miner's cap and lamp. No. 985,660; Feb. 28; Sp. p. 5207; Gaz. vol. 163; p. 920.
Cohen, Adolph, Brooklyn, N. Y. Doll. No. 1,007,922; Nov. 7; Sp. p. 630; Gaz. vol. 172; p. 97.
Cohen, Dan, Memphis, Tenn. Comb. No. 1,004,371; Sept. 26; Sp. p. 4807; Gaz. vol. 170; p. 849.
Cohen, Hyman, New York, N. Y. Spare-tire cover. No. 1,012,247; Dec. 19; Sp. p. 4166; Gaz. vol. 173; p. 715.
Cohen, Joseph. (See Bloom, Adde, assignor.)
Cohen, Morris. (See Thomson, Alfred J., assignor.)
Cohen, Morris, New York, N. Y. Buckle. No. 989,121; Apr. 11; Sp. p. 1740; Gaz. vol. 165; p. 303.
Cohen, Moses, New York, N. Y. Suspenders. No. 986,362; Mar. 7; Sp. p. 1272; Gaz. vol. 164; p. 205.
Cohen, Nathan D., New York, N. Y. Garment or merchandise hanger. No. 1,000,896; Aug. 15; Sp. p. 3612; Gaz. vol. 169; p. 649.
Cohn, Henry J. (See Stoetzel, Joseph J., assignor.)
Cohn, Joseph, Berlin, Germany. Hat-pin for ladies' hats. No. 987,795; Mar. 28; Sp. p. 4302; Gaz. vol. 164; p. 784.
Cohn, Samuel, New York, N. Y., assignor, by mesne assignments, to Mantle Machinery and Patents Company. Machine for sewing the heads of mantles. No. 1,008,011; Nov. 7; Sp. p. 791; Gaz. vol. 172; p. 126.
Cohnen, Joseph P., Detroit, Mich. Mattress. No. 1,004,745; Oct. 3; Sp. p. 429; Gaz. vol. 171; p. 71.
Cohoe, Wallace P., Toronto, Ontario, Canada. Making a fermentable product from cellulosic and ligneous materials. No. 985,725; Feb. 28; Sp. p. 5381; Gaz. vol. 163; p. 943.
Cohoe, Wallace P., Toronto, Ontario, Canada. Making a glucose-like product from cellulosic and ligneous materials. No. 985,726; Feb. 28; Sp. p. 5385; Gaz. vol. 163; p. 943.
Cohran, John, Dubuque, Iowa. Railway dining-car. No. 1,007,184; Oct. 31; Sp. p. 5821; Gaz. vol. 171; p. 1062.
Cohrs, Peter W., Hoboken, N. J. Toy gun. No. 990,228; Apr. 25; Sp. p. 4152; Gaz. vol. 165; p. 743.

Alphabetical list of patentees—Continued.

Coin Controlled Lock Co. (See Farnsworth, Willis S., assignor.)
Coin Controlled Lock Co. (See Farnsworth and Reed, assignors.)
Cokel Company, The. (See Cooke, Ernest W., assignor.)
Coker, James L., Jr., Hartsville, S. C. Centrifugal pump. No. 998,751; July 25; Sp. p. 4707; Gaz. vol. 168; p. 852.
Colahan, Charles, Lexington, Ky. Apparatus for preparing unretted fiber stalks for decortication and conversion into fiber. No. 994,124; June 6; Sp. p. 43; Gaz. vol. 167; p. 9.
Colas, Albert, Warnemünde, Germany. Means for suspending pictures and the like. No. 999,961; Aug. 8; Sp. p. 1541; Gaz. vol. 169; p. 291.
Colber, George W., Milwaukee, Wis. Shoe-sole-finishing machine. No. 1,003,432; Sept. 19; Sp. p. 2714; Gaz. vol. 170; p. 498.
Colbert, Clarence F., Oak Park, Ill. Filling-machine. No. 983,351; Feb. 7; Sp. p. 194; Gaz. vol. 163; p. 35.
Colburn, Eugene, San Francisco, Cal. Valve-grinding implement. No. 998,957; July 25; Sp. p. 5181; Gaz. vol. 168; p. 925.
Colburn, Hebden, and S. G. Broadbent, Bradford, England. Making fertilizer. No. 986,623; Mar. 14; Sp. p. 1834; Gaz. vol. 164; p. 325.
Colby, Daniel W., South Boston, Mass. Loose-leaf binder. No. 992,707; May 16; Sp. p. 4009; Gaz. vol. 166; p. 716.
Colby, Edward B., assignor to N. B. Colby, Montclair, N. J. Grate-bar. No. 997,904; July 11; Sp. p. 2795; Gaz. vol. 168; p. 478.
Colby, Grant, New Paris, Ohio. Electrically-operated elevator-gate mechanism. No. 1,010,863; Dec. 5; Sp. p. 1040; Gaz. vol. 173; p. 162.
Colby, Nellie B. (See Colby, Edward B., assignor.)
Coldwell, William H., Newburgh, N. Y. Motor lawn-mower. No. 1,012,521; Dec. 19; Sp. p. 4696; Gaz. vol. 173; p. 807.
Cole, A. B. (See Morelock, William H. H., assignor.)
Cole, Albert L., Auburndale, Mass., assignor, by mesne assignments, to Bloss & Wales, Incorporated, Boston, Mass. Telescopic pipe-joint. No. 1,003,033; Sept. 12; Sp. p. 1884; Gaz. vol. 170; p. 325.
Cole, Alice M. (See Bagley, Orin, assignor.)
Cole, Arthur D., deceased; N. M. Cole, Bath, Me., administratrix. Automatic machine for making bobbins. No. 998,565; July 18; Sp. p. 4258; Gaz. vol. 168; p. 753.
Cole, Benjamin F., assignor of one-half to N. J. Fortney, Kingwood, W. Va. Copy-holder. No. 980,206; Jan. 3; Sp. p. 59; Gaz. vol. 162; p. 12.
Cole, Edward S., New York, N. Y. Recording device. No. 993,437; May 30; Sp. p. 5595; Gaz. vol. 166; p. 1026.
Cole, Ernest E., Chicago, Ill. Camera and film-package therefor. No. 981,064; Jan. 10; Sp. p. 2048; Gaz. vol. 162; p. 337.
Cole, Francis J., Schenectady, N. Y. Cylinder-saddle for locomotive-engines. No. 990,840; May 2; Sp. p. 25; Gaz. vol. 166; p. 7.
Cole, Francis J., Schenectady, N. Y. Valve-stem guide for locomotives. No. 993,651; May 30; Sp. p. 6062; Gaz. vol. 166; p. 1100.
Cole, Francis J., Schenectady, N. Y. Steam-pipe for locomotive-engines. No. 998,872; July 25; Sp. p. 4983; Gaz. vol. 168; p. 894.
Cole, Francis J., Schenectady, N. Y. Piston-rod extension-guide. No. 1,003,235; Sept. 12; Sp. p. 2322; Gaz. vol. 170; p. 398.
Cole, Francis J., Schenectady, N. Y. Manufacture of pipe-bends. No. 1,011,412; Dec. 12; Sp. p. 2275; Gaz. vol. 173; p. 388.
Cole, Francis J., and F. F. Scoville, Schenectady, N. Y. Locomotive-engine. No. 991,139; May 2; Sp. p. 661; Gaz. vol. 166; p. 113.
Cole, Frank H., Holyoke, Mass. Spark-arrester and smoke-preventing device for locomotives. No. 1,002,564; Sept. 5; Sp. p. 860; Gaz. vol. 170; p. 127.
Cole, Frank M., assignor of one-half to M. F. Tallmage, Buffalo, N. Y. Separating-machine. No. 1,008,697; Nov. 14; Sp. p. 2417; Gaz. vol. 172; p. 408.
Cole, Frederick W., Newton, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, New York, N. Y. Supervisory signaling device for clocks. No. 997,603; July 11; Sp. p. 2079; Gaz. vol. 168; p. 371.
Cole, Frederick W., Newton, Mass., assignor to Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Fire-alarm box. No. 1,008,955; Nov. 14; Sp. p. 2960; Gaz. vol. 172; p. 494.
Cole, Frederick W., Newton, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, New York, N. Y. Insulating-bushing for electric conductors and binding-posts. No. 1,010,592; Dec. 5; Sp. p. 425; Gaz. vol. 173; p. 68.
Cole, Glenn, Chicago, Ill. Game apparatus. No. 980,207; Jan. 3; Sp. p. 62; Gaz. vol. 162; p. 12.
Cole, Harvey L., Rockford, Ill. Heating apparatus. No. 1,005,160; Oct. 10; Sp. p. 1256; Gaz. vol. 171; p. 234.
Cole, Henry W. N., Brooklyn, N. Y. Compressor. No. 983,605; Feb. 7; Sp. p. 758; Gaz. vol. 163; p. 119.
Cole, James F., Chicago, Ill. Stencil apparatus. No. 1,000,496; Aug. 15; Sp. p. 2740; Gaz. vol. 169; p. 507.
Cole, John A., Chicago, Ill. Valve-indicator. No. 989,835; Apr. 18; Sp. p. 3316; Gaz. vol. 165; p. 579.
Cole, John A., Chicago, Ill. Device for measuring the velocity of flowing streams. No. 993,029; May 23; Sp. p. 4721; Gaz. vol. 166; p. 859.
Cole, John C., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Metal rim for vehicle-tires. No. 987,216; Mar. 21; Sp. p. 3081; Gaz. vol. 164; p. 558.
Cole, John C., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Removable tubular rim. No. 994,247; June 6; Sp. p. 302; Gaz. vol. 167; p. 52.
Cole, Joseph F. (See Bush and Cole.)
Cole, Malcolm, McKees Rocks, Pa. Electric trap. No. 1,006,910; Oct. 24; Sp. p. 5201; Gaz. vol. 171; p. 914.
Cole, Nancy M., administratrix. (See Cole, Arthur D.)
Cole, Paul, Tyrrell, Ohio. Device for manipulating jar-closures. No. 991,047; May 2; Sp. p. 456; Gaz. vol. 166; p. 79.
Cole, R. H., *et al.* (See Christman, Daniel H., assignor.)
Cole, Ralph, Norwalk, Ohio. Flying-machine. No. 1,011,031; Dec. 5; Sp. p. 1376; Gaz. vol. 173; p. 219.
Cole, Shadrach W. (See Owen, Heckethorn, and Cole.)
Cole, Thomas R., Buxton, Iowa. Egg-tester. No. 983,687; Feb. 7; Sp. p. 933; Gaz. vol. 163; p. 148.
Cole, William B., assignor of one-half to E. M. Warffuel, Chicago, Ill. Automobile-fender. No. 1,009,224; Nov. 21; Sp. p. 3579; Gaz. vol. 172; p. 625.
Cole, William C., Locust Hill, Mo. Vehicle-wheel. No. 996,835; July 4; Sp. p. 480; Gaz. vol. 168; p. 79.
Cole, William H., Charles City, Iowa. Combined door-hanger and track for edgewise-movable doors. No. 1,004,746; Oct. 3; Sp. p. 430; Gaz. vol. 171; p. 72.
Colegrove, Charles E., East Cleveland, assignor to The White Sewing Machine Company, Cleveland, Ohio. Friction-clutch for sewing-machines. No. 990,033; Apr. 18; Sp. p. 3735; Gaz. vol. 165; p. 646.
Colegrove, Charles E., assignor to The White Sewing Machine Company, Cleveland, Ohio. Clamping mechanism for drop-leaf sewing-machine stands. No. 997,271; July 11; Sp. p. 1420; Gaz. vol. 168; p. 261.
Coleman, Ava R., Palmyra, Va. Game apparatus. No. 996,458; June 27; Sp. p. 5204; Gaz. vol. 167; p. 912.
Coleman, Clarence W., Westfield, N. J., assignor to The Hall Signal Company. Switch instrument. No. 1,010,864; Dec. 5; Sp. p. 1044; Gaz. vol. 173; p. 163.
Coleman, Clyde J., New York, N. Y. Heat-insulating wall. No. 984,541; Feb. 21; Sp. p. 2808; Gaz. vol. 163; p. 501.
Coleman, Clyde J., Rockaway, N. J. Secondary battery. No. 1,008,525; Nov. 14; Sp. p. 2029; Gaz. vol. 172; p. 347.
Coleman, Clyde J., New York, N. Y., assignor to Rockaway Automobile Company, Rockaway, N. J. Rotary-cylinder explosion-engine. No. 980,491; Jan. 3; Sp. p. 685; Gaz. vol. 162; p. 110.
Coleman, Clyde J., New York, N. Y., assignor to Rockaway Automobile Company, Rockaway, N. J. Internal-combustion motor. No. 981,978; Jan. 17; Sp. p. 4049; Gaz. vol. 162; p. 675.
Coleman, Clyde J., New York, N. Y., assignor to Rockaway Automobile Company, Rockaway, N. J. Rotary impact-engine. No. 1,003,708; Sept. 19; Sp. p. 3325; Gaz. vol. 170; p. 595.
Coleman, Clyde J., assignor to C. Hubert, New York, N. Y. Automatic engine-starter. No. 993,030; May 23; Sp. p. 4723; Gaz. vol. 166; p. 860.
Coleman, Clyde J., assignor to C. Hubert, New York, N. Y. Brake-facing. No. 993,031; May 23; Sp. p. 4725; Gaz. vol. 166; p. 860.
Coleman, Clyde J., assignor to C. Hubert, New York, N. Y. Hydraulic transmission mechanism for automobiles. No. 993,652; May 30; Sp. p. 6063; Gaz. vol. 166; p. 1101.
Coleman, Clyde J., assignor to C. Hubert, New York, N. Y. Hydraulic power-transmission system. No. 993,653; May 30; Sp. p. 6073; Gaz. vol. 166; p. 1101.
Coleman, Clyde J., assignor to C. Hubert, New York, N. Y. Hydraulic governor. No. 995,117; June 13; Sp. p. 2227; Gaz. vol. 167; p. 387.
Coleman, Clyde J., assignor to C. Hubert, New York, N. Y. Reducing-valve. No. 997,272; July 11; Sp. p. 1421; Gaz. vol. 168; p. 261.
Coleman, Clyde J., assignor to C. Hubert, New York, N. Y. Vehicle movement-detector. No. 1,010,725; Dec. 5; Sp. p. 721; Gaz. vol. 173; p. 114.
Coleman, Clyde J., Rockaway, N. J., assignor to C. Hubert, New York, N. Y. Engine-starter. No. 1,011,582; Dec. 12; Sp. p. 2694; Gaz. vol. 173; p. 452.
Coleman, Edgar P., deceased, Buffalo, N. Y.; R. H. Coleman, administrator. Fluid-meter. No. 986,423; Mar. 7; Sp. p. 1401; Gaz. vol. 164; p. 226.
Coleman, Edgar P., deceased, Buffalo, N. Y.; R. H. Coleman, administrator. Fluid-meter. No. 1,010,400; Nov. 28; Sp. p. 6027; Gaz. vol. 172; p. 1068.
Coleman, George D., Brookline, Mass., assignor to Coleman Liquid Copper Company, Jersey City, N. J. Machine for studding piles. No. 995,118; June 13; Sp. p. 2231; Gaz. vol. 167; p. 388.
Coleman, James M., Montreal, Quebec, Canada. Grain-car. No. 998,325; July 18; Sp. p. 3779; Gaz. vol. 168; p. 672.

Alphabetical list of patentees—Continued.

Coleman, James M., Montreal, Quebec, Canada. Car-dumping mechanism. No. 998,326; July 18; Sp. p. 3780; Gaz. vol. 168; p. 672.
Coleman, James T., Oakland, Cal. Fountain-brush. No. 995,769; June 20; Sp. p. 3676; Gaz. vol. 167; p. 641.
Coleman, James V., San Francisco, Cal. Apparatus for separating mineral-bearing matter from streams of water. No. 995,526; June 20; Sp. p. 3119; Gaz. vol. 167; p. 555.
Coleman, John P., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Electromagnetic apparatus. No. 984,748; Feb. 21; Sp. p. 3257; Gaz. vol. 163; p. 575.
Coleman, John P., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 994,060; May 30; Sp. p. 6899; Gaz. vol. 166; p. 1239.
Coleman, John P., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 994,125; June 6; Sp. p. 45; Gaz. vol. 167; p. 10.
Coleman, John P., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit-controller. No. 1,003,338; Sept. 12; Sp. p. 2525; Gaz. vol. 170; p. 435.
Coleman, John P., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Clutch device. No. 1,003,339; Sept. 12; Sp. p. 2527; Gaz. vol. 170; p. 435.
Coleman, John P., New York, N. Y., and P. Utne, Wilkinsburg, assignors to The Union Switch & Signal Company, Swissvale, Pa. Circuit-controller. No. 1,009,476; Nov. 21; Sp. p. 4147; Gaz. vol. 172; p. 714.
Coleman, John W., Maybeury, assignor of one-half to A. J. Dalton, Powhatan, W. Va. Preventing mine explosions. No. 981,170; Jan. 10; Sp. p. 2269; Gaz. vol. 162; p. 375.
Coleman, Lewis A., assignor of one-third to H. G. Whitehead, Norfolk, Va. Tire for vehicle-wheels. No. 985,397; Feb. 28; Sp. p. 4623; Gaz. vol. 163; p. 829.
Coleman Liquid Copper Company. (See Coleman, George D., assignor.)
Coleman, Robert H., administrator. (See Coleman, Edgar P.)
Coleman, Thomas A., St. Louis, Mo. Vehicle-brake. No. 997,273; July 11; Sp. p. 1423; Gaz. vol. 168; p. 262.
Coleman, Thomas A., Longville, assignor to C. T. Patterson Company, Ltd., New Orleans, La. Conveyer-chain. No. 988,546; Apr. 4; Sp. p. 543; Gaz. vol. 165; p. 87.
Coleman, Thomas A., Longville, assignor to C. T. Patterson Company, Ltd., New Orleans, La. Conveyer-chain. No. 995,952; June 20; Sp. p. 4051; Gaz. vol. 167; p. 704.
Coleman, William C., Wichita, Kans. Lamp. No. 989,765; Apr. 18; Sp. p. 3153; Gaz. vol. 165; p. 554.
Coleman, William C., Wichita, Kans. Lamp. No. 989,766; Apr. 18; Sp. p. 3154; Gaz. vol. 165; p. 554.
Coleman, William C., Wichita, Kans. Bracket-lamp. No. 989,767; Apr. 18; Sp. p. 3158; Gaz. vol. 165; p. 555.
Coleman, William H., assignor to Wilkinson Manufacturing Company, Binghamton, N. Y. Folding or collapsible sled. No. 980,604; Jan. 3; Sp. p. 923; Gaz. vol. 162; p. 149.
Coleridge, John G. (See Gehlert and Coleridge.)
Coles, David H., Brooklyn, N. Y. Internal-combustion engine. No. 1,011,032; Dec. 5; Sp. p. 1378; Gaz. vol. 173; p. 220.
Coles, William A., assignor of one-half to U. A. Breting, Canton, Ohio. Drain-pipe plug and flushing-nozzle. No. 994,442; June 6; Sp. p. 703; Gaz. vol. 167; p. 120.
Colgen, Nicholas, St. Charles, Minn. Separating-grate. No. 985,007; Feb. 21; Sp. p. 3743; Gaz. vol. 163; p. 661.
Colin, Victor, Neuilly-sur-Seine, and M. Jeance, Paris, France. Wireless-telephony apparatus. No. 1,010,593; Dec. 5; Sp. p. 427; Gaz. vol. 173; p. 68.
Colina, William, and M. M. Reid, Waterbury, Conn. Pipe-cleaner. No. 986,268; Mar. 7; Sp. p. 1072; Gaz. vol. 164; p. 171.
Coll, Edward A., Pittsburg, Pa. Can-opener. No. 984,418; Feb. 14; Sp. p. 2505; Gaz. vol. 163; p. 424.
Collar, Adoniram J., Yreka, Cal. Ditch-gate. No. 981,171; Jan. 10; Sp. p. 2270; Gaz. vol. 162; p. 375.
Collar, Adoniram J., Yreka, Cal. Gate-valve. No. 982,036; Jan. 17; Sp. p. 4164; Gaz. vol. 162; p. 695.
Collar, Adoniram J., Yreka, Cal. Fly-escape. No. 982,180; Jan. 17; Sp. p. 4435; Gaz. vol. 162; p. 743.
Collar, Adoniram J., Yreka, Cal. Fish-screen for ditches. No. 991,700; May 9; Sp. p. 1893; Gaz. vol. 166; p. 342.
Collar, Adoniram J., Yreka, Cal. Fish-screen. No. 1,011,119; Dec. 5; Sp. p. 1579; Gaz. vol. 173; p. 250.
Collar, Adoniram J., Yreka, Cal. Ditch-gate. No. 1,011,120; Dec. 5; Sp. p. 1581; Gaz. vol. 173; p. 250.
Collard, Antoine, Molenbeek, near Brussels, Belgium. Apparatus for recovering solvent vapors from air, &c. No. 1,003,089; Sept. 12; Sp. p. 2004; Gaz. vol. 170; p. 345.
Collett, Emil, and M. Eckardt, Christiania, Norway. Manufacturing nitrate fertilizers. No. 985,781; Mar. 7; Sp. p. 27; Gaz. vol. 164; p. 7.
Collett, Emil, and M. Eckardt, Christiania, Norway. Making ammonia. No. 1,003,433; Sept. 19; Sp. p. 2716; Gaz. vol. 170; p. 498.
Collett, John C., assignor to The Fogelsong Machine Co., Dayton, Ohio. Horse-collar-stuffing machine. No. 981,616; Jan. 17; Sp. p. 3240; Gaz. vol. 162; p. 550.
Collett, John C., assignor to The Fogelsong Machine Company, Dayton, Ohio. Collar-stuffing machine. No. 999,549; Aug. 1; Sp. p. 706; Gaz. vol. 169; p. 121.
Collett, John C., assignor to The Fogelsong Machine Company, Dayton, Ohio. Collar-stuffing machine. No. 999,550; Aug. 1; Sp. p. 708; Gaz. vol. 169; p. 122.
Collett, John C., and N. T. Lause, assignors to The Fogelsong Machine Company, Dayton, Ohio. Mechanism for stuffing pads. No. 981,615; Jan. 17; Sp. p. 3238; Gaz. vol. 162; p. 550.
Collett, Laura I., Walker, Mo. Evaporative cooler. No. 988,547; Apr. 4; Sp. p. 544; Gaz. vol. 165; p. 87.
Colley, George H., assignor to American Lady Corset Company, Detroit, Mich. Corset. No. 997,274; July 11; Sp. p. 1426; Gaz. vol. 168; p. 262.
Collier, Arthur T., St. Albans, England. Manufacture of flexible material from india-rubber and the like. No. 1,000,781; Aug. 15; Sp. p. 3388; Gaz. vol. 169; p. 609.
Collier Automobile Goggle Company. (See Collier, Guy B., assignor.)
Collier, Charles, Cleveland, Ohio. Vehicle-wheel. No. 986,691; Mar. 14; Sp. p. 1982; Gaz. vol. 164; p. 348.
Collier, Guy B. (See Wales, Nathaniel B., assignor.)
Collier, Guy B., Kinderhook, N. Y., assignor to Collier Automobile Goggle Company, Cambridge, Mass. Goggles. No. 999,630; Aug. 1; Sp. p. 850; Gaz. vol. 169; p. 148.
Collier, Henry B., Prairie Grove, Ark. Electromagnetic switch. No. 1,000,074; Aug. 8; Sp. p. 1791; Gaz. vol. 169; p. 329.
Collier, James D., Woodville, Tex. Car-steps. No. 986,142; Mar. 7; Sp. p. 801; Gaz. vol. 164; p. 130.
Collier, Rebecca E., Chicago, Ill. Tambour-frame. No. 986,692; Mar. 14; Sp. p. 1984; Gaz. vol. 164; p. 349.
Collin, Erik A., Story, Nebr. Windmill. No. 1,005,602; Oct. 10; Sp. p. 2284; Gaz. vol. 171; p. 393.
Collin, George W., assignor to The Collin Valve Company, Bridgeport, Conn. Regulating-valve. No. 1,001,620; Aug. 29; Sp. p. 5165; Gaz. vol. 169; p. 957.
Collin Valve Company, The. (See Collin, George W., assignor.)
Collinge, Joseph, assignor of one-half to T. M. Creak, Birkdale, England. Liquid-sprinkling apparatus. No. 984,350; Feb. 14; Sp. p. 2378; Gaz. vol. 163; p. 402.
Collings, Clarence H. (See Brookins and Vetter, assignors.)
Collins, Albert F., Minneapolis, Minn. Stocking-holder for use in darning. No. 997,544; July 11; Sp. p. 1957; Gaz. vol. 168; p. 350.
Collins, Albert F., Minneapolis, Minn. Embroidery-holder. No. 997,545; July 11; Sp. p. 1958; Gaz. vol. 168; p. 350.
Collins, Albert M., Portland, Oreg. Balancing device. No. 1,001,123; Aug. 22; Sp. p. 4169; Gaz. vol. 169; p. 762.
Collins, Alvin W., Greenmont, S. D. Letter-binder. No. 999,300; Aug. 1; Sp. p. 206; Gaz. vol. 169; p. 39.
Collins, Annastasia, San Francisco, Cal. Safety-pin. No. 1,008,956; Nov. 14; Sp. p. 2961; Gaz. vol. 172; p. 494.
Collins, Arthur W. (See Fischer, Luening, and Collins.)
Collins, Asa G., Everett, Wash. Well-boring apparatus. No. 993,507; May 30; Sp. p. 5746; Gaz. vol. 166; p. 1050.
Collins, Asa G., Everett, Wash. Well-drilling apparatus. No. 996,002; June 20; Sp. p. 4143; Gaz. vol. 167; p. 721.
Collins Axle Manufacturing Company. (See Collins, Dennis P., assignor.)
Collins, Charles H., Albany, N. Y. Matching device for weaving-machines. No. 988,694; Apr. 4; Sp. p. 857; Gaz. vol. 165; p. 139.
Collins, Charles P., Springfield, Ohio. Lantern. No. 1,005,161; Oct. 10; Sp. p. 1257; Gaz. vol. 171; p. 234.
Collins, Charles W., Seattle, Wash. Transmission-gearing for automobiles. No. 999,699; Aug. 1; Sp. p. 985; Gaz. vol. 169; p. 172.
Collins, Dennis P., assignor to Collins Axle Manufacturing Company, Pittsburg, Pa. Transmission-gearing for automobiles. No. 980,605; Jan. 3; Sp. p. 924; Gaz. vol. 162; p. 149.
Collins, Dennis P., assignor to Collins Axle Manufacturing Company, Pittsburg, Pa. Mechanism for actuating clutches. No. 986,363; Mar. 7; Sp. p. 1273; Gaz. vol. 164; p. 206.
Collins, Edmund R., assignor to New York Die Company, New York, N. Y. Embossing-press. No. 1,007,923; Nov. 7; Sp. p. 631; Gaz. vol. 172; p. 97.
Collins, Edward, Brooklyn, N. Y. Stone-dressing machine. No. 989,122; Apr. 11; Sp. p. 1741; Gaz. vol. 165; p. 303.
Collins, Francis E., Conshohocken, Pa. Oil-filter. No. 1,001,929; Aug. 29; Sp. p. 5855; Gaz. vol. 169; p. 1064.
Collins, Franklin E. (See Hewitt, Leon A., assignor.)
Collins, Henry A. D., London, England. Refractory material. No. 982,252; Jan. 24; Sp. p. 4590; Gaz. vol. 162; p. 797.
Collins, Henry L. (See Arbogast, John I., assignor).
Collins, Herbert G. (See Sparks and Collins.)
Collins, Herbert G., assignor to Sargent & Co., New Haven, Conn. Padlock. No. 993,032; May 23; Sp. p. 4727; Gaz. vol. 166; p. 860.
Collins, J. (See Travers, William J., assignor.)
Collins, James F., Washington, D. C. Swinging shelf for desks. No. 981,979; Jan. 17; Sp. p. 4052; Gaz. vol. 162; p. 676.

Alphabetical list of patentees—Continued.

Collins, James F., Wilmerding, Pa. Tire-protector. No. 995,119; June 13; Sp. p. 2234; Gaz. vol. 167; p. 388.
Collins, John M., South Pittsburg, Tenn. Feed-water heater. No. 1,003,877; Sept. 19; Sp. p. 3663; Gaz. vol. 170; p. 651.
Collins, John W., East Pittsburg, Pa. Non-refillable bottle. No. 986,546; Mar. 14; Sp. p. 1679; Gaz. vol. 164; p. 298.
Collins, Joseph M., assignor of one-half to S. E. Snodgrass, Gorman, Tex. Low-pressure tire-signal. No. 1,010,726; Dec. 5; Sp. p. 726; Gaz. vol. 173; p. 114.
Collins, Lucius J., Winnipeg, Manitoba, Canada. Sheaf-loader. No. 1,004,149; Sept. 26; Sp. p. 4368; Gaz. vol. 170; p. 774.
Collins, Martin H., Philadelphia, Pa. Game-counter. No. 980,208; Jan. 3; Sp. p. 63; Gaz. vol. 162; p. 13.
Collins, Metallic Package Company, The. (See Conniff, Philip, assignor.)
Collins, Michael, Philadelphia, Pa. Packing means for stuffing-boxes. No. 990,841; May 2; Sp. p. 28; Gaz. vol. 166; p. 7.
Collins, Robert F., Paris, France. Manufacturing pressed steel cases for friction-clutches. No. 990,340; Apr. 25; Sp. p. 4419; Gaz. vol. 165; p. 782.
Collins, Robert G. (See Parten, Wilbur, assignor.)
Collins, Thomas E., Chicago, Ill. Fire-door. No. 984,799; Feb. 21; Sp. p. 3361; Gaz. vol. 163; p. 593.
Collins, Thomas E., Chicago, Ill. Fire-door. No. 1,007,339; Oct. 31; Sp. p. 6129; Gaz. vol. 171; p. 1118.
Collins, Timothy, Burlingame, Cal. Clip for metal studding. No. 987,858; Mar. 28; Sp. p. 4431; Gaz. vol. 164; p. 806.
Collins, Walter A., Mount Vernon, N. Y. Hat-pin holder. No. 987,699; Mar. 28; Sp. p. 4096; Gaz. vol. 164; p. 751.
Collins, Walter A., Mount Vernon, N. Y. Automatic circuit-closing device. No. 994,375; June 6; Sp. p. 573; Gaz. vol. 167; p. 98.
Collins, Walter L., Milford, Mass. Metallic reinforcement for walls. No. 1,011,583; Dec. 12; Sp. p. 2699; Gaz. vol. 173; p. 452.
Collins, William F., London, England. Manufacture of briquets for metallurgical or other purposes. No. 982,796; Jan. 31; Sp. p. 5749; Gaz. vol. 162; p. 1013.
Collins, William R., Georgetown, Colo. Tunneling-machine. No. 1,000,075; Aug. 8; Sp. p. 1794; Gaz. vol. 169; p. 329.
Collinson, Clifford W. (See Collinson, Robert W. and C. W.)
Collinson, Robert W., Norwich, and C. W. Collinson, Bradford, England. Composition for marking sheep and other animals. No. 993,348; May 30; Sp. p. 5395; Gaz. vol. 166; p. 997.
Collis, Alfred, London, England. Paper-feeding mechanism. No. 996,459; June 27; Sp. p. 5207; Gaz. vol. 167; p. 913.
Collis, Alfred, London, England. Sheet-delivering mechanism. No. 997,041; July 4; Sp. p. 958; Gaz. vol. 168; p. 153.
Collis, Charles, *et al.* (See Shailer, George W., assignor.)
Collis Company, The. (See Collis, Oliver D., assignor.)
Collis, David, *et al.* (See Shailer, George W., assignor.)
Collis, Henry J., Taunton, Mass. Ankle support and protector. No. 991,831; May 9; Sp. p. 2154; Gaz. vol. 166; p. 383.
Collis, Henry J., Taunton, Mass. Ankle support and protector. No. 999,010; July 25; Sp. p. 5297; Gaz. vol. 168; p. 943.
Collis, John, *et al.* (See Shailer, George W., assignor.)
Collis, Oliver D., assignor to The Collis Company, Dubuque, Iowa. Metallic shelving. No. 1,004,996; Oct. 3; Sp. p. 940; Gaz. vol. 171; p. 156.
Collischonn, Friedel. (See Hertwig and Collischonn.)
Collison, George A., Burlington, Vt. Automobile tire-pump. No. 1,009,382; Nov. 21; Sp. p. 3944; Gaz. vol. 172; p. 682.
Collison, John S., and W. A. Wright, Ord, Nebr. Wrench. No. 1,010,479; Dec. 5; Sp. p. 180; Gaz. vol. 173; p. 29.
Collon, Eugène L., Cannes, and G. Tabard, Lyon, France. Automatically-operated stopping device. No. 994,443; June 6; Sp. p. 704; Gaz. vol. 167; p. 120.
Colloseus, Heinrich, Berlin, Germany. Granulating molten slag. No. 980,606; Jan. 3; Sp. p. 927; Gaz. vol. 162; p. 150.
Colman, Howard D., and B. A. Peterson, assignors to Barber Colman Company, Rockford, Ill. Doffer. No. 983,858; Feb. 7; Sp. p. 1289; Gaz. vol. 163; p. 206.
Colmery, Robert A. D., Mount Gilead, Ohio. Ice-cream ladle or cup. No. 993,508; May 30; Sp. p. 5747; Gaz. vol. 166; p. 1050.
Colmyer, Frank B., East Bloomfield, N. Y. Match-safe. No. 998,468; July 18; Sp. p. 4065; Gaz. vol. 168; p. 720.
Cöln Müsener Bergwerks-Actien Verein. (See Debus and Menne, assignors.)
Colona Manufacturing Company. (See Shrum, Peter J., assignor.)
Colonial Trust Company, The. (See Brady, John F., assignor.)
Colonial Trust Company, The. (See Ehrhart, Raymond N., assignor.)
Colonial Trust Company, The, trustee. (See Arnold, Edwin E., assignor.)
Colonial Trust Company, The, trustee. (See Green, Jonathan S., assignor.)
Colonial Trust Company, The, trustee. (See Hodgkinson, Francis, assignor.)
Colonial Trust Company, The, trustee. (See Lea, Henry I., assignor.)
Colonial Trust Company, The, trustee. (See London, William J. A., assignor.)
Colonial Trust Company, The, trustee. (See Mohn, Trygve, assignor.)
Colonial Trust Company, The, trustee. (See Sweet, Charles E., assignor.)
Colorado Iron Works Co. (See Akins, Randall P., assignor.)
Colorado Iron Works Company. (See Nesmith, John W., assignor.)
Colorado-Yule Marble Co., The. (See Eggers, Ernest, assignor.)
Colozza, Pamphile, Chicoutimi, Quebec, Canada. Liquid-measurer. No. 1,002,224; Sept. 5; Sp. p. 73; Gaz. vol. 170; p. 8.
Colson, Charles H., Sheldahl, Iowa. Spring-scale. No. 984,264; Feb. 14; Sp. p. 2215; Gaz. vol. 163; p. 374.
Colt, Le Baron C., Bristol, R. I. Lasting-machine. No. 996,702; July 4; Sp. p. 214; Gaz. vol. 168; p. 37.
Colt, Le Baron C., Bristol, R. I. Die for cutting out parts of shoe-uppers. No. 999,962; Aug. 8; Sp. p. 1542; Gaz. vol. 169; p. 291.
Columbia Combination Boiler and Heater Company. (See Deasy, Peter A., assignor.)
Columbia Company. (See Zimmerman, Martin B., assignor.)
Columbia Meter Company. (See Scheeffer, Gustave A., assignor.)
Columbia Motor Car Company, The. (See Baldwin, Henry S., assignor.)
Columbia Motor Car Company, The. (See Law, Fred A., assignor.)
Columbia Motor Car Company, The. (See Smith, Albert W., assignor.)
Columbian Conservatory of Music. (See MacMaster, James, assignor.)
Columbian Rope Company. (See Sponsel, Charles W., assignor.)
Columbus Dental Manufacturing Company, The. (See Steele, Thomas, assignor.)
Columbus Electric Scale Company, The. (See Smith, Walter S., assignor.)
Colver, Charles P., *et al.* (See McNaughton, Andrew, assignor.)
Colvin, Chase, South Charleston, Ohio. Metallic fence-post. No. 1,011,749; Dec. 12; Sp. p. 3038; Gaz. vol. 173; p. 507.
Colvin, Walter. (See Copenhaver and Colvin.)
Colwill, Samuel. (See Colwill, William H. and S.)
Colwill, William H., Plymouth, and S. Colwill, Cardiff, England. Telephone and like box. No. 996,907; July 4; Sp. p. 643; Gaz. vol. 168; p. 104.
Coman, Edgar E., Waldron, Mich. Coupling. No. 999,963; Aug. 8; Sp. p. 1543; Gaz. vol. 169; p. 291.
Combs, Elmer E., Evansville, Wis. Harrow-disk sharpener. No. 1,003,340; Sept. 12; Sp. p. 2530; Gaz. vol. 170; p. 436.
Combs, Hiram S., assignor to M. F. Saunders, Norwalk, Conn. Wire-netting machine. No. 983,539; Feb. 7; Sp. p. 599; Gaz. vol. 163; p. 96.
Combs, Rogers M., Chicago, Ill. Amusement apparatus. No. 987,555; Mar. 21; Sp. p. 3762; Gaz. vol. 164; p. 672.
Comellas, Froilan C. and M. C., Mauresa, Spain. Reed for looms. No. 1,002,808; Sept. 5; Sp. p. 1382; Gaz. vol. 170; p. 210.
Comellas, Marcelino C. (See Comellas, Froilan C. and M. C.)
Comer, John W., Ulm, Mont. Cattle-guard for railways. No. 1,011,033; Dec. 5; Sp. p. 1381; Gaz. vol. 173; p. 220.
Comey, George P., Cleveland Heights Village, Ohio. Sewing-machine. No. 1,006,535; Oct. 24; Sp. p. 4365; Gaz. vol. 171; p. 782.
Comfort, Edward W., Chicago, Ill., assignor to American Moistening Company, Boston, Mass. Hygrometric indicator. No. 1,003,341; Sept. 12; Sp. p. 2532; Gaz. vol. 170; p. 436.
Comfort, Edward W., Camden, N. J., assignor to Warren Webster & Company. Thermostatic valve device. No. 1,004,684; Oct. 3; Sp. p. 289; Gaz. vol. 171; p. 49.
Comings, William R. (See Snell, Alfred C., assignor.)
Comings, William R. (See Twiss, George V., assignor.)
Comings, William R., Whamcliffe, Wimbledon Park, England. Manufacturing receptacles. No. 995,953; June 20; Sp. p. 4052; Gaz. vol. 167; p. 705.
Comings, William R., London, England. Box-making machine. No. 1,000,991; Aug. 22; Sp. p. 3857; Gaz. vol. 169; p. 715.
Comins, Charles S., Wollaston, Mass. Time-indicator. No. 994,126; June 6; Sp. p. 49; Gaz. vol. 167; p. 10.
Comiot, Charles. (See Boucher, Albert L., assignor.)
Commercial Acetylene Company. (See Bruckner, Rudolph E., assignor.)

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Commercial Camera Company. (See Greene, John S., assignor.)
Commercial Camera Company. (See Jones, Floyd D., assignor.)
Commercial Non-Refillable Bottle Stopper Company. (See Voss, William R., assignor.)
Commercial Register Company. (See Benjamin, Joseph E., assignor.)
Commercial Register Company. (See Zimmer and Benjamin, assignors.)
Commetti, Joseph, near Garland, Ala. Well-casing placer. No. 995,662; June 20; Sp. p. 3426; Gaz. vol. 167; p. 604.
Commonwealth Steel Company. (See Howard, Clarence H., assignor.)
Commonwealth Steel Company. (See Howe, Andrew F., assignor.)
Commonwealth Steel Company. (See Mitchell and Walker, assignors.)
Commonwealth Title Insurance and Trust Company, trustee. (See Salom, Pedro G., assignor.)
Como Electrical Company. (See Hickley, Arthur S., assignor.)
Compagnie Francaise Des Applications De La Cellulose. (See Baj, Clement, assignor.)
Company Anker-Werke A. G. vormals Hengstenberg & Co. (See Trog, Carl, assignor.)
Company Carl Jäger G. m. b. H. (See Freimann, Hans, assignor.)
Company Limited for Exploitation of Inventions by Stephan Benkö. (See Benkö, Stephan, assignor.)
Complete Book-Keeper Co., The. (See McCormick, Horace, assignor.)
Comptograph Company. (See Niemann, Frederick A., assignor.)
Compton, Andrew J., Trenton, N. J. Seaming and calking knife. No. 1,012,601; Dec. 26; Sp. p. 4879; Gaz. vol. 173; p. 879.
Compton, Harry J., *et al.* (See Wicks, Albert, assignor.)
Compton, James T., assignor of one-half to F. L. Gladish, Wenatchee, Wash. Fruit picker's bucket. No. 1,012,602; Dec. 26; Sp. p. 4880; Gaz. vol. 173; p. 879.
Compton, Joseph B., Buchanan, assignor of one-half to F. T. D. Wallace, Jr., Louisa, Ky. Safety device for railway-tracks. No. 1,010,480; Dec. 5; Sp. p. 181; Gaz. vol. 173; p. 30.
Compton, Melvin D., New York, N. Y. Flying-machine. No. 986,364; Mar. 7; Sp. p. 1276; Gaz. vol. 164; p. 206.
Computing Scale Company. (See Hopkinson, Joseph, assignor.)
Computing Scale Company, The. (See Jones, Richard O., assignor.)
Computing Scale Company, The. (See Thomas, Rufus Y., assignor.)
Comrack, Alfred W., Olyphant, Pa. Fire-alarm. No. 996,618; July 4; Sp. p. 51; Gaz. vol. 168; p. 10.
Comstock, Asa M. (See Folger and Comstock.)
Comstock, Charles H., Indianapolis, Ind. Machine for treating interior woodwork and flooring. No. 981,383; Jan. 10; Sp. p. 2760; Gaz. vol. 162; p. 448.
Comstock, Henry W., Chicago, Ill. Shelving. No. 1,011,161; Dec. 12; Sp. p. 1710; Gaz. vol. 173; p. 300.
Comstock, John B. (See Meade, Norman G., assignor.)
Comstock, Milton E., Burlington, Iowa. Level. No. 986,909; Mar. 14; Sp. p. 2450; Gaz. vol. 164; p. 423.
Comstock, Richard W., Jr., assignor to Rhode Island Perkins Horse Shoe Company, Providence, R. I. Self-sharpening horseshoe-calk. No. 999,700; Aug. 1; Sp. p. 987; Gaz. vol. 169; p. 172.
Comstock, Thomas W., Killingworth, Conn. Lid-lifter. No. 1,002,225; Sept. 5; Sp. p. 75; Gaz. vol. 170; p. 8.
Conant, Albert F., Littleton, Mass. Apparatus for handling scale weighing devices. No. 1,012,522; Dec. 19; Sp. p. 4699; Gaz. vol. 173; p. 807.
Conant, Luther, Oak Park, Ill. Window-guard. No. 993,654; May 30; Sp. p. 6081; Gaz. vol. 166; p. 1102.
Conant, William C., Oak Park, Ill. Speed-changing mechanism. No. 987,430; Mar. 21; Sp. p. 3525; Gaz. vol. 164; p. 630.
Conboy, Henry, Alameda, Cal. Drop back-rest for seats. No. 1,003,034; Sept. 12; Sp. p. 1887; Gaz. vol. 170; p. 326.
Concealed Transom Lift Company. (See Bell, Ernest E., assignor.)
Concealed Transom Lift Company, The. (See Dyer, Leonard H., assignor.)
Concord Company. (See Anderson, Alfred, assignor.)
Concord Company. (See Reeps, Charles F., assignor.)
Concrete & Clay Products Company. (See Bellamy, Charles H., assignor.)
Condict, George H., Plainfield, N. J., assignor to W. Dulles, New York, N. Y. Machine for dressing or surfacing stone and other uses. No. 990,425; Apr. 25; Sp. p. 4633; Gaz. vol. 165; p. 815.
Condict, George H., Plainfield, assignor to W. Dulles, Englewood, N. J. Drill or other impact mechanism. No. 999,433; Aug. 1; Sp. p. 476; Gaz. vol. 169; p. 83.
Condie, Christopher C., Memphis, Tenn. Revetment-mattress. No. 983,209; Jan. 31; Sp. p. 6621; Gaz. vol. 162; p. 1151.
Condie, Christopher C., Memphis, Tenn. Revetment-mattress. No. 984,121; Feb. 14; Sp. p. 1885; Gaz. vol. 163; p. 323.
Condit, S. B., Jr. (See Burnham, George A., assignor.)
Condit, Sears B., Jr. (See Greene, Austin E., assignor.)
Condit, Sears B., Jr. (See Horton, Augustus L., assignor.)
Condit, Sears B., Jr. (See Young, Franz W., assignor.)
Condit, Sears B., Jr., Boston, Mass. Oil-switch. No. 982,253; Jan. 24; Sp. p. 4591; Gaz. vol. 162; p. 798.
Condit, Sears B., Jr., and A. E. Greene, Boston, Mass.; said Greene assignor to said Condit. Manhole-switch. No. 1,008,012; Nov. 7; Sp. p. 794; Gaz. vol. 172; p. 126.
Condit, William D. (See Searle, Elbert H., assignor.)
Condon, Daisy L. B., *et al.* (See Brown, Linus W.)
Condon, Daisy L. B., *et al.*, executors. (See Brown, Linus W.)
Condon, Edward T., Jr., Morristown, N. J. Attachment for talking-machines. No. 1,000,582; Aug. 15; Sp. p. 2947; Gaz. vol. 169; p. 539.
Condon, George W., *et al.* (See Benson, Henry M., assignor.)
Condon, John E., assignor of one-half to G. F. Maguire, New York, N. Y. Tally or checking system. No. 994,819; June 13; Sp. p. 1574; Gaz. vol. 167; p. 288.
Condon, William. (See Barrett and Condon.)
Condos, Ellen M., Goldfield, Nev. Extensible car-step. No. 1,011,750; Dec. 12; Sp. p. 3039; Gaz. vol. 173; p. 508.
Condron & Sinks. (See Sinks, Frank F., assignor.)
Cone, Arthur J., Toledo, Ohio. Folding crate. No. 982,350; Jan. 24; Sp. p. 4809; Gaz. vol. 162; p. 833.
Cone, William H., assignor to L. G. Fixen, Chicago, Ill. Electrically decomposing fluids. No. 1,011,413; Dec. 12; Sp. p. 2276; Gaz. vol. 173; p. 388.
Conelly, John J., Branch Dale, Pa. Watch-chain. No. 1,003,090; Sept. 12; Sp. p. 2006; Gaz. vol. 170; p. 345.
Cones, Charles W., assignor of one-half to A. C. Jacobs, Thorntown, Ind. Splicing-tool. No. 1,007,535; Oct. 31; Sp. p. 6568; Gaz. vol. 171; p. 1185.
Coney, James D., Detroit, Mich. Trousers-hanger. No. 992,855; May 23; Sp. p. 4341; Gaz. vol. 166; p. 798.
Coney, Jesse D., Williamsport, Pa. Reinforcing extension-chuck for polishing devices. No. 987,959; Mar. 28; Sp. p. 4718; Gaz. vol. 164; p. 842.
Coney, Jesse D., Williamsport, assignor to J. W. Ivory, Philadelphia, Pa. Dental polishing device. No. 999,964; Aug. 8; Sp. p. 1545; Gaz. vol. 169; p. 291.
Confrey, Mary T., Indianapolis, Ind. Hat-pin. No. 996,003; June 20; Sp. p. 4145; Gaz. vol. 167; p. 721.
Conger, Oliver P., and W. H. Corbett, Portland, Oreg. Traction-engine. No. 985,566; Feb. 28; Sp. p. 5020; Gaz. vol. 163; p. 888.
Conia, Edward, Meeteetse, Wyo. Animal-trap. No. 1,003,342; Sept. 12; Sp. p. 2534; Gaz. vol. 170; p. 436.
Conigrave, Mostyn, Coolgardie, Western Australia, Australia. Pin for securing ladies' hats. No. 985,976; Mar. 7; Sp. p. 475; Gaz. vol. 164; p. 76.
Conine, Wiley, Oneida, N. Y. Variable-speed power-transmitting mechanism. No. 989,946; Apr. 18; Sp. p. 3557; Gaz. vol. 165; p. 617.
Conklin, Elisha M., deceased; L. L. Conklin, Winnfield, La., administratrix. Saw-set. No. 986,693; Mar. 14; Sp. p. 1985; Gaz. vol. 164; p. 349.
Conklin, Lillian L., administratrix. (See Conklin, Elisha M.)
Conkling, Cloud C., Buffalo, assignor to Lackawanna Steel Company, New York, N. Y. Steel sheet-piling. No. 1,005,514; Oct. 10; Sp. p. 2051; Gaz. vol. 171; p. 361.
Conkling, Cloud C., Buffalo, assignor to Lackawanna Steel Company, New York, N. Y. Metal sheet-piling. No. 1,012,124; Dec. 19; Sp. p. 3896; Gaz. vol. 173; p. 674.
Conkling Company. (See Snow, Frederick, assignor).
Conley Camera Co., The. (See Drake, James C., assignor.)
Conley, Clarence E., Penn Yan, N. Y. Mail-carrier. No. 980,209; Jan. 3; Sp. p. 65; Gaz. vol. 162; p. 13.
Conley, Clarence E., Penn Yan, N. Y. Mail-carrier system. No. 990,842; May 2; Sp. p. 30; Gaz. vol. 166; p. 8.
Conley, Durward D., Flora, Oreg. Plow-point holder. No. 1,006,724; Oct. 24; Sp. p. 4754; Gaz. vol. 171; p. 847.
Conley Foil Company. (See Conley, John, assignor.)
Conley, John, assignor to Conley Foil Company, New York, N. Y. Apparatus for applying closures to vessels. No. 982,797; Jan. 31; Sp. p. 5750; Gaz. vol. 162; p. 1014.
Conley, Joseph, Anadarko, Okla. Latrine-incinerator. No. 985,567; Feb. 28; Sp. p. 5025; Gaz. vol. 163; p. 889.
Conley, Joseph, Anadarko, Okla. Human crematory. No. 988,862; Apr. 4; Sp. p. 1206; Gaz. vol. 165; p. 193.
Conley, Michael R., assignor to J. E. Florence, trustee, New York, N. Y. Cartridge for melting-furnaces. No. 984,123; Feb. 14; Sp. p. 1888; Gaz. vol. 163; p. 324.
Conley, Michael R., assignor to J. E. Florence, trustee, New York, N. Y. Electric furnace. No. 989,568; Apr. 18; Sp. p. 2733; Gaz. vol. 165; p. 487.
Conlisk, George, *et al.* (See Moore, Martin W., assignor.)
Conly, Frank, Indianapolis, Ind. Display apparatus. No. 1,009,477; Nov. 21; Sp. p. 4151; Gaz. vol. 172; p. 715.

Alphabetical list of patentees—Continued.

Conly, Frank, Indianapolis, and W. A. Hawkins, Carmel, Ind. Water-cooler. No. 1,005,809; Oct. 17; Sp. p. 2709; Gaz. vol. 171; p. 495.
Conly, John A. (See Allen and Conly.)
Conn, Charles A. (See Holt and Conn.)
Conn, Wallace T. (See Allen and Conn.)
Conn, Wallace T., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Flaming-arc carbon. No. 1,000,717; Aug. 15; Sp. p. 3242; Gaz. vol. 169; p. 586.
Conn, Wallace T., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Electrode for arc-lamps. No. 1,002,645; Sept. 5; Sp. p. 1031; Gaz. vol. 170; p. 154.
Conneaut Company, The. (See Lumley, Wilfrid, assignor.)
Connecticut Hook & Eye Company, The. (See Courtland, William A., assignor.)
Connecticut Motor Vehicle Company. (See Morse, Arthur J., assignor.)
Connecticut Shock Absorber Company, The. (See Freer, Phelps M., assignor.)
Connecticut Telephone & Electric Company, The. (See Cuno, Charles, assignor.)
Connecticut Telephone & Electric Company, The. (See Wilcox, Ernest C., assignor.)
Connecticut Web and Buckle Co., The. (See Oppenheim and Cleary, assignors.)
Connell, Edward A. (See Hillyer, George H., assignor.)
Connell, William J., assignor of one-third to A. M. Baldwin, Huntington, W. Va. Check-lock. No. 1,004,372; Sept. 26; Sp. p. 4808; Gaz. vol. 170; p. 849.
Connell, William S., New York, N. Y., assignor to Keystone Fire Proofing Company. Plaster-board partition-stud. No. 999,752; Aug. 8; Sp. p. 1112; Gaz. vol. 169; p. 220.
Connelly, Amalia L., Pittsburg, Pa. Clothes-sprinkler. No. 997,242; July 4; Sp. p. 1353; Gaz. vol. 168; p. 221.
Connelly, James W., Methuen, assignor to Draper Company, Hopedale, Mass. Unwrapping mechanism for yarn-chains. No. 1,005,162; Oct. 10; Sp. p. 1259; Gaz. vol. 171; p. 234.
Connelly, Lyman H., Osierfield, Ga. Derailing device. No. 999,190; July 25; Sp. p. 5633; Gaz. vol. 168; p. 1002.
Connelly, Michael E., Cumberland, Md. Toilet. No. 987,112; Mar. 21; Sp. p. 2817; Gaz. vol. 164; p. 519.
Conner, George F., Port Huron, Mich. Actuating mechanism for agricultural machines. No. 998,752; July 25; Sp. p. 4711; Gaz. vol. 168; p. 852.
Conner, John D., assignor of one-half to C. A. Hopper, Philadelphia, Pa. Lubricating device. No. 983,874; Feb. 14; Sp. p. 1350; Gaz. vol. 163; p. 242.
Conner, Lawrence H., Headrick, Okla. Baling-press. No. 989,836; Apr. 18; Sp. p. 3317; Gaz. vol. 165; p. 579.
Conner, Robert T., Hornbeck, La. Horse-detacher. No. 1,003,343; Sept. 12; Sp. p. 2536; Gaz. vol. 170; p. 436.
Conner, Theodore M., Tuscola, Ill. Wire-fence machine. No. 1,006,829; Oct. 24; Sp. p. 5011; Gaz. vol. 171; p. 886.
Connet, Frederick N., Providence, R. I. Feed-water regulator. No. 987,048; Mar. 14; Sp. p. 2706; Gaz. vol. 164; p. 467.
Connies, Samuel J., Brooklyn, N. Y. Game apparatus. No. 999,095; July 25; Sp. p. 5468; Gaz. vol. 168; p. 973.
Conniff, Philip, *et al.* (See Pierce, Franklin A., assignor.)
Conniff, Philip, assignor of one-half to C. M. Harris, Washington, D. C. Wheel-flange lubricator. No. 990,034; Apr. 18; Sp. p. 3735; Gaz. vol. 165; p. 647.
Conniff, Philip, Washington, D. C., assignor to The Collins Metallic Packing Company, Philadelphia, Pa. Lubricating stick or bar. No. 1,010,237; Nov. 28; Sp. p. 5679; Gaz. vol. 172; p. 1016.
Conniff, William E., assignor of one-half to R. F. Engelhardt, Portland, Oreg. Means for controlling the rotation of the reels of fishing-rods. No. 1,010,021; Nov. 28; Sp. p. 5261; Gaz. vol. 172; p. 943.
Connolley, Coleman, Boston, Mass. Water-gage. No. 993,225; May 23; Sp. p. 5124; Gaz. vol. 166; p. 923.
Connolley, Coleman, Boston, Mass. Clothes-line support. No. 1,008,013; Nov. 7; Sp. p. 796; Gaz. vol. 172; p. 126.
Connolly, James J., Jr., New Bedford, assignor of one-half to P. J. Gauvin, Waltham, Mass. Toy merry-go-round. No. 990,035; Apr. 18; Sp. p. 3738; Gaz. vol. 165; p. 647.
Connolly, Joseph A., Everett, Mass. Brooder. No 983,481; Feb. 7; Sp. p. 485; Gaz. vol. 163; p. 77.
Connolly, Martin P., W. H. Fisher, and C. O. Papke, assignors to Connolly-Papke-Fisher Company, Wayne, Mich. Folding shipping-case. No. 1,011,584; Dec. 12; Sp. p. 2700; Gaz. vol. 173; p. 452.
Connolly, Mason, Brooklandville, Md. Rail-joint. No. 1,008,786; Nov. 14; Sp. p. 2623; Gaz. vol. 172; p. 439.
Connolly-Papke-Fisher Company. (See Connolly, Fisher, and Papke, assignors.)
Connolly, William F., Epworth, Iowa. Barn-door latch. No. 985,727; Feb. 28; Sp. p. 5389; Gaz. vol. 163; p. 944.
Connor, Arthur C., Springfield, Ill. Refrigerator. No. 985,323; Feb. 28; Sp. p. 4476; Gaz. vol. 163; p. 805.
Connor, Bartholomew, Buffalo, N. Y. Artificial limb. No. 1,001,356; Aug. 22; Sp. p. 4649; Gaz. vol. 169; p. 839.
Connor, Edward A. (See Eagan, John, assignor.)
Connor, Edward A., and J. E. Miller, Lackawanna, N. Y. Pump. No. 987,217; Mar. 21; Sp. p. 3083; Gaz. vol. 164; p. 559.
Connor, George S., St. Paul, Minn. Tire. No. 998,753; July 25; Sp. p. 4712; Gaz. vol. 168; p. 853.
Connor, George W., Bearwallow, N. C. Washboiler. No. 999,096; July 25; Sp. p. 5469; Gaz. vol. 168; p. 973.
Connor, John J., Providence, R. I. Calk or creeper attachment for horseshoes. No. 1,001,252; Aug. 22; Sp. p. 4415; Gaz. vol. 169; p. 802.
Connor, William, Philadelphia, Pa. Awning. No. 1,001,930; Aug. 29; Sp. p. 5857; Gaz. vol. 169; p. 1064.
Connors, George W., Helena, Ala. Fence-post. No. 985,661; Feb. 28; Sp. p. 5208; Gaz. vol. 163; p. 921.
Connors, George W., Helena, Ala. Fence-post. No. 996,316; June 27; Sp. p. 4887; Gaz. vol. 167; p. 862.
Connors, Joseph M., *et al.* (See Smith, George H., assignor.)
Connors, Patrick J., assignor of one-half to F. Disler, Greenville, Pa. Stay-bolt for steam-boilers. No. 987,431; Mar. 21; Sp. p. 3530; Gaz. vol. 164; p. 631.
Connors, Thomas, Kansas City, Mo. Ladder. No. 987,960; Mar. 28; Sp. p. 4720; Gaz. vol. 164; p. 842.
Conore, Louis E., Paris, France. Machine for decorticating and breaking up the fibers of ramie, caraguata, sansevieria, and other similar textile plants. No. 1,001,357; Aug. 22; Sp. p. 4651; Gaz. vol. 169; p. 840.
Conover, Claude A., Newburgh, N. Y. Horse-overshoe. No. 986,964; Mar. 14; Sp. p. 2546; Gaz. vol. 164; p. 441.
Conover, Edwin K., Paterson, N. J. Fender for motor-vehicles. No. 1,000,668; Aug. 15; Sp. p. 3143; Gaz. vol. 169; p. 569.
Conover, Henry S. (See Rothchild and Conover.)
Conover, Howard B. (See Caille and Conover.)
Conover, Jacob B., Jersey City, N. J. Can-cover. No. 981,384; Jan. 10; Sp. p. 2761; Gaz. vol. 162; p. 448.
Conover, Peter G., Denver, Colo. Agricultural implement. No. 985,568; Feb. 28; Sp. p. 5030; Gaz. vol. 163; p. 889.
Conrad, Frank, Swissvale, Pa. Carbureter. No. 1,002,646; Sept. 5; Sp. p. 1032; Gaz. vol. 170; p. 154.
Conrad, Frank, Swissvale, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transformer. No. 1,005,163; Oct. 10; Sp. p. 1264; Gaz. vol. 171; p. 235.
Conrad, George A., Houghton, Mich. Surgical appliance. No. 996,836; July 4; Sp. p. 482; Gaz. vol. 168; p. 80.
Conrad, John R., Canajoharie, N. Y. Change-making machine. No. 1,002,039; Aug. 29; Sp. p. 6082; Gaz. vol. 169; p. 1099.
Conrad, Louis, New York, N. Y. Automobile-wheel. No. 985,112; Feb. 21; Sp. p. 3949; Gaz. vol. 163; p. 698.
Conrad, Nicholas, Milwaukee, Wis. Meat-binder. No. 985,113; Feb. 21; Sp. p. 3950; Gaz. vol. 163; p. 698.
Conrad, Nicholas J. (See Schweitzer and Conrad.)
Conrad, Warren M., and K. G. List, Chelsea, Mass. Tension for rotary thread-beams. No. 989,123; Apr. 11; Sp. p. 1743; Gaz. vol. 165; p. 303.
Conrader, Rudolph, Erie, Pa. Sand-trap for pumps. No. 981,172; Jan. 10; Sp. p. 2272; Gaz. vol. 162; p. 375.
Conrader, Rudolph, Erie, Pa. Pump. No. 984,351; Feb. 14; Sp. p. 2380; Gaz. vol. 163; p. 403.
Conrath, Bernard, Hammond, Ind., assignor to Simplex Railway Appliance Company, Chicago, Ill. Adjustable brake-head. No. 1,010,022; Nov. 28; Sp. p. 5265; Gaz. vol. 172; p. 944.
Conroy, M. V., *et al.* (See Ogier, Felix F., assignor.)
Conroy, Michael, Ionia, assignor of one-half to G. S. Harger, Sheridan, Mich. Concrete-mixer. No. 1,003,400; Sept. 12; Sp. p. 2637; Gaz. vol. 170; p. 453.
Conroy, William E., Pittsburg, Pa. Mirror-support. No. 987,346; Mar. 21; Sp. p. 3355; Gaz. vol. 164; p. 602.
Conry, William H., Topeka, Kans., assignor to W. H. Holmes, Kansas City, Mo. Railway-track construction. No. 990,843; May 2; Sp. p. 31; Gaz. vol. 166; p. 8.
Consentino, Thomas, Houston, Tex. Firearm. No. 987,672; Mar. 21; Sp. p. 4021; Gaz. vol. 164; p. 714.
Consolidated Car Heating Company. (See Hawley, Cornell S., assignor.)
Consolidated Car Heating Company. (See McElroy, James F., assignor.)
Consolidated Dental Manufacturing Company. (See Goslee, Hart J., assignor.)
Consolidated Dental Manufacturing Company. (See Starr, Frederick J., assignor.)
Consolidated Land and Machinery Company. (See Currie, John W., assignor.)
Consolidated Window Glass Company. (See Healy, Mack J., assignor.)
Consortium für Elektrochemische Industrie Gesellschaft mit beschränkter Haftung. (See Tichner, Gustav, assignor.)
Constantine, Alfred, Birmingham, England. Sewing-thimble. No. 981,173; Jan. 10; Sp. p. 2275; Gaz. vol. 162; p. 376.
Contamin, Philibert, Paris, France. Device for producing sulfur dioxid. No. 996,215; June 27; Sp. p. 4647; Gaz. vol. 167; p. 829.
Contenti, Filiberto, Newark, N. J. Measuring device. No. 1,000,151; Aug. 8; Sp. p. 1979; Gaz. vol. 169; p. 355.
Conti, James T. F., Paris, France. Gripping mechanism. No. 989,696; Apr. 18; Sp. p. 3014; Gaz. vol. 165; p. 530.
Continental-Caoutchouc- & Gutta-Percha-Compagnie. (See Kindscherf, Karl, assignor.)

Alphabetical list of patentees—Continued.

Continental Engineering Company. (See Bennett, Erastus S., assignor.)
Continental Gin Company. (See Lee, Felix L., assignor.)
Continental Paper Bag Company. (See Froehlich, Joseph, assignor.)
Continental Paper Bag Company. (See Hawley, Theodore, assignor.)
Continental Paper Bag Company. (See Smithwick, Harold, assignor.)
Continental Radiator & Foundry Company. (See Ostrander, Lewis F., assignor.)
Continental Railway Equipment Company. (See Murray, George C., assignor.)
Continuous Frog & Crossing Company. (See Roach, Harry F., assignor.)
Continuous Process Coke Company. (See Summers, Leland L., assignor.)
Continuous Rail and Safety Switch Co. (See Roach, Harry F., assignor.)
Continuous Zinc Furnace Company, The. (See Johnson, Woolsey M., assignor.) (Reissue.)
Contos, John, Grand Island, Nebr. Rail-straightener. No. 982,254; Jan. 24; Sp. p. 4594; Gaz. vol. 162; p. 798.
Converse, Frank W. (See Harper and Converse.)
Converse, Newton B., Fresno, Cal., assignor to himself, J. E. Dickinson, F. M. Wright, B. W. Norton, L. Z. Ickes, and K. Arakelian, trustees. Method of treating raisins in the process of seeding and apparatus therefor. No. 992,856; May 23; Sp. p. 4343; Gaz. vol. 166; p. 798.
Converse, Newton B., Fresno, Cal., assignor to N. B. Converse, J. E. Dickinson, F. M. Wright, B. W. Norton, L. Z. Ickes, and K. Arakelian, trustees. Process and apparatus for seeding and packing raisins. No. 998,075; July 18; Sp. p. 3200; Gaz. vol. 168; p. 580.
Converse, Tommy J., Bellingham, Wash. Music-leaf turner. No. 1,006,437; Oct. 17; Sp. p. 4110; Gaz. vol. 171; p. 716.
Convey, Thomas P. (See Webb and Convey.)
Conway, Harry B., Boone, W. Va., assignor of one-half to L. Long, Dante, Va. Electrical-rail bond. No. 990,634; Apr. 25; Sp. p. 5079; Gaz. vol. 165; p. 885.
Conway, Thomas J. (See Richards and Conway.)
Conway, William T., St. Louis, Mo. Device for stamping or marking meats. No. 996,004; June 20; Sp. p. 4146; Gaz. vol. 167; p. 722.
Conyne, Silas J., Chicago, Ill. Kite. No. 1,005,810; Oct. 17; Sp. p. 2711; Gaz. vol. 171; p. 496.
Conzelman, John E., St. Louis, Mo., assignor to Unit Construction Company, Wilmington, Del. Concrete construction. No. 992,733; May 16; Sp. p. 4064; Gaz. vol. 166; p. 726.
Conzelman, John E., assignor to Unit Construction Company, St. Louis, Mo. Concrete construction. No. 992,734; May 16; Sp. p. 4068; Gaz. vol. 166; p. 726.
Conzelman, John E., St. Louis, Mo., assignor to Unit Construction Company, Wilmington, Del. Concrete construction. No. 1,008,587; Nov. 14; Sp. p. 2176; Gaz. vol. 172; p. 371.
Coogan, James A., Milwaukee, Wis. Sad-iron. No. 1,006,438; Oct. 17; Sp. p. 4112; Gaz. vol. 171; p. 717.
Cook, Albert E., and S. E. Kurtz, Odebolt, Iowa, assignors to The International Motor Plow Company, Chicago, Ill. Motor-driven agricultural apparatus. No. 1,010,238; Nov. 28; Sp. p. 5681; Gaz. vol. 172; p. 1016.
Cook, C. P., *et al.* (See Lambert, Jay S., assignor.)
Cook, Carroll E., New London, Iowa. Shooting-glasses. (Reissue.) No. 13,231; May 2; Sp. p. 1365; Gaz. vol. 166; p. 227.
Cook, Charles, Manhattan, Kans. Shaft-collar. No. 992,544; May 16; Sp. p. 3697; Gaz. vol. 166; p. 662.
Cook, Charles F. (See Coan, James, assignor.)
Cook, Christian W., Provo, Utah. Window-sash holder. No. 999,434; Aug. 1; Sp. p. 480; Gaz. vol. 169; p. 84.
Cook, Clifford S., Ensley, Mich. Horseshoe. No. 985,250; Feb. 28; Sp. p. 4319; Gaz. vol. 163; p. 780.
Cook, Elnathan C., *et al.* (See Hachmann, Frederick, assignor.)
Cook, Flournoy. (See Walker and Cook.)
Cook, Frank B. (See Hewitt and Nolen, assignors.)
Cook, Frank B. (See Leeper, Edward W., assignor.)
Cook, Frank B., Chicago, Ill. Individual-protector unit and means for mounting same. No. 990,229; Apr. 25; Sp. p. 4153; Gaz. vol. 165; p. 743.
Cook, Frank B., Chicago, Ill. Cable-terminal. No. 997,042; July 4; Sp. p. 962; Gaz. vol. 168; p. 153.
Cook, Frank B., Chicago, Ill. Cable-terminal. No. 997,043; July 4; Sp. p. 963; Gaz. vol. 168; p. 154.
Cook, Frank J., Collinwood, Ohio. Electrically-heated oven. No. 988,695; Apr. 4; Sp. p. 859; Gaz. vol. 165; p. 139.
Cook, Frank S. (See Mills, Edward N., assignor.)
Cook, Fred W., *et al.* (See Palmer, Herbert R., assignor.)
Cook, Fred W., Denver, Colo. Telephone-muffler. No. 990,527; Apr. 25; Sp. p. 4866; Gaz. vol. 165; p. 849.
Cook, Frederick A. K., London, England. Pipe-stopper. No. 991,278; May 2; Sp. p. 968; Gaz. vol. 166; p. 163.
Cook, George, Buffalo, N. Y. Water-tube boiler. No. 1,008,526; Nov. 14; Sp. p. 2031; Gaz. vol. 172; p. 347.
Cook, George W., Jr., assignor to American Separator Company, Bainbridge, N. Y. Oiling device. No. 988,080; Mar. 28; Sp. p. 4978; Gaz. vol. 164; p. 882.

Cook, Henry E., and E. P. Bullock, Bozeman, Mont. Mouthpiece for musical instruments. No. 995,663; June 20; Sp. p. 3428; Gaz. vol. 167; p. 604.
Cook, Howard G., St. Louis, Mo. Safety-razor. No. 984,800; Feb. 21; Sp. p. 3363; Gaz. vol. 163; p. 593.
Cook, James M., Westmont, Pa. Mine-car. No. 1,012,817; Dec. 26; Sp. p. 5386; Gaz. vol. 173; p. 956.
Cook, John, Buffalo, N. Y. Smokeless boiler-furnace. No. 996,063; June 27; Sp. p. 4283; Gaz. vol. 167; p. 777.
Cook, John W., Manchester, England. Weft-replenishing loom for weaving. No. 993,349; May 30; Sp. p. 5396; Gaz. vol. 166; p. 997.
Cook, Judson, assignor of one-half to T. Crawford, Jr., Philadelphia, Pa. Metal corner-bar. No. 1,006,359; Oct. 17; Sp. p. 3964; Gaz. vol. 171; p. 690.
Cook, Leander P., Cotulla, Tex. Folding crate. No. 991,701; May 9; Sp. p. 1894; Gaz. vol. 166; p. 342.
Cook Railway Signal Company, The. (See Cook, William J., assignor.)
Cook, Richard, Berlin, Ontario, assignor of one-half to G. A. Bowman, Conestogo, Canada. Ball-bearing. No. 989,569; Apr. 18; Sp. p. 2734; Gaz. vol. 165; p. 488.
Cook, Richard H., Fall River, assignor to The Whitin Machine Works, Whitinsville, Mass. Waste-collector. No. 1,002,226; Sept. 5; Sp. p. 76; Gaz. vol. 170; p. 9.
Cook, Samuel, Wilmerding, Pa., assignor to M. Ergenzinger, Atlanta, Ga. Apparatus for controlling the flow of liquids or gases. No. 1,004,629; Oct. 3; Sp. p. 173; Gaz. vol. 171; p. 30.
Cook, Sheldon E., Lincoln, Nebr. Flushing-tank. No. 985,782; Mar. 7; Sp. p. 28; Gaz. vol. 164; p. 7.
Cook, Stanley S. (See Parsons and Cook.)
Cook, Stanley S. (See Parsons, Cook, and Turnbull.)
Cook, Stanley S. (See Ridsdale and Cook.)
Cook, Thomas R., Fort Wayne, Ind. Transfer mechanism. No. 985,398; Feb. 28; Sp. p. 4624; Gaz. vol. 163; p. 829.
Cook, William A., Rome, Ga. Clothes-washing machine. No. 1,011,751; Dec. 12; Sp. p. 3040; Gaz. vol. 173; p. 508.
Cook, William E. (See Repp, Clinton B., assignor.)
Cook, William H., Denver, Colo. Paper-folding machine. No. 1,006,911; Oct. 24; Sp. p. 5203; Gaz. vol. 171; p. 914.
Cook, William J., assignor to The Cook Railway Signal Company, Denver, Colo. Automatic electric railway-gate. No. 985,977; Mar. 7; Sp. p. 476; Gaz. vol. 164; p. 76.
Cook, William S., Atlantic City, Wyo. Compressed-air system. No. 1,006,912; Oct. 24; Sp. p. 5205; Gaz. vol. 171; p. 914.
Cooke, Alfred F. (See Fawcus and Cooke.)
Cooke, Ernest W., New York, N. Y., assignor, by mesne assignments, to The Cokel Company. Cranberry food product and preparing the same. No. 984,749; Feb. 21; Sp. p. 3259; Gaz. vol. 163; p. 576.
Cooke, Henry E., Jr., Chicago, Ill. Producing cocoa-powder and cocoa-butter. No. 1,006,913; Oct. 24; Sp. p. 5206; Gaz. vol. 171; p. 915.
Cooke, John M., Highland Springs, Va. Gage attachment for buttonhole-machines. No. 1,010,865; Dec. 5; Sp. p. 1047; Gaz. vol. 173; p. 163.
Cooke, Joseph E. M., Stafford, assignor of one-half to T. H. Roberts, Sandridge St. Armes-on-the-Sea, England. Heel for boots and shoes. No. 988,975; Apr. 11; Sp. p. 1432; Gaz. vol. 165; p. 253.
Cooke, Shubel S., and F. Noblitt, Richmond, Ind. Separable and adjustable screen. No. 992,857; May 23; Sp. p. 4345; Gaz. vol. 166; p. 799.
Cooke, William E., assignor of one-half to W. S. Wingfield, Shellmound, Miss. Gin. No. 1,008,242; Nov. 7; Sp. p. 1283; Gaz. vol. 172; p. 210.
Cookingham, De Witt C. (See Hertner and Cookingham.)
Cookingham, De Witt C., and J. H. Hertner, assignors to The Rauch and Lang Carriage Company, Cleveland, Ohio. Automobile running-gear. No. 1,007,645; Oct. 31; Sp. p. 6795; Gaz. vol. 171; p. 1222.
Cooksey, Arthur W., London, England. Siphonic water-closet. No. 1,008,787; Nov. 14; Sp. p. 2624; Gaz. vol. 172; p. 440.
Cookson, Charles W., Wahiawa, Hawaii. Machine for coring and sizing pineapples. No. 1,001,931; Aug. 29; Sp. p. 5858; Gaz. vol. 169; p. 1064.
Cookson, Thomas J., Cincinnati, Ohio. Float. No. 998,279; July 18; Sp. p. 3660; Gaz. vol. 168; p. 654.
Cooley, Henry B., New Britain, Conn., assignor to The American Paper Goods Company, Montclair, N. J. Feeding device. No. 994,376; June 6; Sp. p. 574; Gaz. vol. 167; p. 98.
Cooley, Henry B., New Britain, Conn., assignor to The American Paper Goods Company, Montclair, N. J. Vacuum-pump. No. 1,005,515; Oct. 10; Sp. p. 2054; Gaz. vol. 171; p. 361.
Cooley, Henry B., New Britain, assignor to The American Paper Goods Company, Kensington, Conn. Delivery mechanism for printing-presses. No. 1,008,014; Nov. 7; Sp. p. 797; Gaz. vol. 172; p. 127.
Cooley, Henry B., New Britain, assignor to The American Paper Goods Company, Kensington, Conn. Ink-distributing mechanism for printing-machines. No. 1,008,015; Nov. 7; Sp. p. 799; Gaz. vol. 172; p. 127.

Cooley, Henry B., New Britain, assignor to The American Paper Goods Company, Kensington, Conn. Type-chase and form-cylinder for printing-presses. No. 1,008,016; Nov. 7; Sp. p. 803; Gaz. vol. 172; p. 127.
Cooley, Robert L., Milwaukee, Wis. Folding stand. No. 987,113; Mar. 21; Sp. p. 2819; Gaz. vol. 164; p. 519.
Cooley, Ward W., Clinton, Iowa. Hand-tamper. No. 1,007,536; Oct. 31; Sp. p. 6549; Gaz. vol. 171; p. 1185.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Resistance-furnace. No. 1,004,557; Oct. 3; Sp. p. 14; Gaz. vol. 171; p. 5.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Filament. No. 1,008,588; Nov. 14; Sp. p. 2179; Gaz. vol. 172; p. 372.
Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Making composite conductors. No. 1,010,866; Dec. 5; Sp. p. 1048; Gaz. vol. 173; p. 163.
Coomber, James J. (See Rowley and Coomber.)
Coon, Abraham, Kidder, Idaho. Punch. No. 988,976; Apr. 11; Sp. p. 1432; Gaz. vol. 165; p. 253.
Coon, Albert A., Hutsonville, Ill. Wagon-jack. No. 1,012,818; Dec. 26; Sp. p. 5387; Gaz. vol. 173; p. 956.
Coon, Charles B., Evanston, Ill. Journal-box lubricant device. No. 980,492; Jan. 3; Sp. p. 688; Gaz. vol. 162; p. 111.
Coon, Charles B., Evanston, Ill. Journal-box lubricant device. (Reissue.) No. 13,225; Apr. 11; Sp. p. 2686; Gaz. vol. 165; p. 450.
Coon, Charles N., and J. Cantlon, Mattoon, Ill. Valve. No. 990,111; Apr. 18; Sp. p. 3880; Gaz. vol. 165; p. 671.
Coon, H., *et al.* (See Silva, Claude L., assignor.)
Cooney Construction Company. (See Cross, George W., assignor.)
Cooney, John J., New York, N. Y. Sash-chain fastener. No. 987,700; Mar. 28; Sp. p. 4097; Gaz. vol. 164; p. 752.
Cooney, Sebern A., assignor of one-half to J. A. Roebling's Sons Co., Trenton, N. J. Double-rope tramway. No. 998,280; July 18; Sp. p. 3662; Gaz. vol. 168; p. 654.
Cooney, William E., Cleveland, assignor to J. La Framboise, Lakewood, Ohio. Adjustable cleaner and smoke-consumer for locomotive smoke-boxes. No. 1,004,851; Oct. 3; Sp. p. 658; Gaz. vol. 171; p. 107.
Coons, Hattie F. (See Coons, Millard F., assignor.)
Coons, Millard F., assignor to H. F. Coons, New York, N. Y. Razor-stropping device. No. 1,000,237; Aug. 8; Sp. p. 2165; Gaz. vol. 169; p. 385.
Cooper, Alexander J., *et al.*, executors. (See Barratt, William T., assignor.)
Cooper, Alice M. (See Cooper, Lyman M., assignor.)
Cooper, Annie, *et al.*, executors. (See Barratt, William T., assignor.)
Cooper, Augustus S., Los Olivos, Cal. Packer for operating gas, water, and oil wells. No. 1,000,583; Aug. 15; Sp. p. 2949; Gaz. vol. 169; p. 540.
Cooper, Augustus S., Los Olivos, Cal. Apparatus for obtaining gas from wells. No. 1,000,669; Aug. 15; Sp. p. 3145; Gaz. vol. 169; p. 570.
Cooper, B. Ives. (See Myers, Matthew J., assignor.)
Cooper, Charles A., New York, N. Y., assignor to Household Cabinet Works, Providence, R. I. Phonograph-cabinet. No. 997,905; July 11; Sp. p. 2799; Gaz. vol. 168; p. 479.
Cooper, Daniel M. (See Hagen and Cooper.)
Cooper, Daniel M., Rochester, N. Y., assignor, by mesne assignments, to American Laundry Machinery Company, Cincinnati, Ohio. Stop mechanism. No. 1,011,162; Dec. 12; Sp. p. 1711; Gaz. vol. 173; p. 301.
Cooper, Ella H., assignor to United Shirt and Collar Company, Troy, N. Y. Collar. No. 990,957; May 2; Sp. p. 281; Gaz. vol. 166; p. 48.
Cooper, Ellis W., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Web-roll support for printing-machines. No. 995,587; June 20; Sp. p. 3268; Gaz. vol. 167; p. 577.
Cooper, Ellis W., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Stereotype-plate clamp. No. 997,966; July 18; Sp. p. 2953; Gaz. vol. 168; p. 541.
Cooper, Ellis W., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Plate-holding device. No. 997,967; July 18; Sp. p. 2955; Gaz. vol. 168; p. 542.
Cooper, Ernest, Riverside, Cal. Ironing-table. No. 980,762; Jan. 3; Sp. p. 1247; Gaz. vol. 162; p. 200.
Cooper, Ernest, Riverside, Cal. Transposer for pianos. No. 1,007,067; Oct. 31; Sp. p. 5539; Gaz. vol. 171; p. 1019.
Cooper, Floyd, Elkins, W. Va. Pipe. No. 985,324; Feb. 28; Sp. p. 4477; Gaz. vol. 163; p. 806.
Cooper, Freddie V., Sylvania, Ga. Bedstead. No. 1,004,243; Sept. 26; Sp. p. 4562; Gaz. vol. 170; p. 807.
Cooper, George, Ansonia, Conn. Pie-tongs. No. 985,569; Feb. 28; Sp. p. 5031; Gaz. vol. 163; p. 890.
Cooper, George, South Lebanon, assignor of one-fourth to L. W. Luedeke, Hopkinsville, and one-fourth to J. E. Clark, South Lebanon, Ohio. Can-cap-feeding machine. No. 985,008; Feb. 21; Sp. p. 3745; Gaz. vol. 163; p. 662.
Cooper, George L. (See Fairchild and Cooper.)
Cooper, Harry L., Albany, Oreg. Lock-setting gage. No. 996,597; June 27; Sp. p. 5477; Gaz. vol. 167; p. 958.
Cooper, Henry C. H., Jamestown, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 995,326; June 13; Sp. p. 2628; Gaz. vol. 167; p. 455.
Cooper, Henry S., assignor to Cooper Underwear Co., Kenosha, Wis. Union garment. No. 1,005,164; Oct. 10; Sp. p. 1265; Gaz. vol. 171; p. 235.
Cooper, Herbert, Brooklyn, N. Y. Transmission-gearing. No. 1,011,163; Dec. 12; Sp. p. 1714; Gaz. vol. 173; p. 301.
Cooper, Herbert, Brooklyn, N. Y. Clutch mechanism. No. 1,012,819; Dec. 26; Sp. p. 5389; Gaz. vol. 173; p. 956.
Cooper Hewitt Electric Company. (See Flichtner, Stanwood E., assignor.)
Cooper Hewitt Electric Company. (See Hewitt, Peter C., assignor.)
Cooper Hewitt Electric Company. (See Keller, Frederick H. von, assignor.)
Cooper Hewitt Electric Company. (See Potter, Henry N., assignor.)
Cooper Hewitt Electric Company. (See Recklinghausen, Max von, assignor.)
Cooper Hewitt Electric Company. (See Thomas, Percy H., assignor.)
Cooper, Isidor, New York, N. Y. Coupling-ring. No. 1,000,992; Aug. 22; Sp. p. 3866; Gaz. vol. 169; p. 715.
Cooper, James M., and F. J. Prismall, assignors of one-fourth to C. R. Talbot and one-fourth to E. P. Vanderburg, Detroit, Mich. Milk-bottle safe. No. 984,542; Feb. 21; Sp. p. 2811; Gaz. vol. 163; p. 502.
Cooper, John A., Jersey City, and W. R. Van Buskirk, Paterson, N. J. Water-gage. No. 1,003,236; Sept. 12; Sp. p. 2324; Gaz. vol. 170; p. 399.
Cooper, John H., Gravesend, England. Draining-rack. No. 995,120; June 13; Sp. p. 2235; Gaz. vol. 167; p. 389.
Cooper, John J., London, England, assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 991,702; May 9; Sp. p. 1896; Gaz. vol. 166; p. 342.
Cooper, John L., Wilkinsburg, and A. J. Sweet, Pittsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Mica insulation. No. 985,399; Feb. 28; Sp. p. 4626; Gaz. vol. 163; p. 829.
Cooper, John W., Buffalo, N. Y. Metallic railway-tie and support therefor. No. 981,980; Jan. 17; Sp. p. 4053; Gaz. vol. 162; p. 676.
Cooper, John W., Buffalo, N. Y. Safe-deposit vault. No. 1,003,878; Sept. 19; Sp. p. 3666; Gaz. vol. 170; p. 652.
Cooper, John W., Buffalo, N. Y., assignor to The Enterprise Specialty Company, Columbus, Ohio. Dowel-joint. No. 981,385; Jan. 10; Sp. p. 2764; Gaz. vol. 162; p. 449.
Cooper, Joseph, Ilkley, England. Sliver-funnel for textile machinery. No. 984,195; Feb. 14; Sp. p. 2027; Gaz. vol. 163; p. 349.
Cooper, Joseph E., Cripple Creek, Colo. Military airship. No. 984,076; Feb. 14; Sp. p. 1799; Gaz. vol. 163; p. 309.
Cooper, Joseph E., Cripple Creek, Colo. Display-rack. No. 1,007,537; Oct. 31; Sp. p. 6560; Gaz. vol. 171; p. 1186.
Cooper, Louis C., Colorado Springs, Colo. Dispensing apparatus. No. 989,837; Apr. 18; Sp. p. 3320; Gaz. vol. 165; p. 580.
Cooper, Lyman M., assignor to A. M. Cooper, Detroit, Mich. Steam-trap. No. 992,545; May 16; Sp. p. 3699; Gaz. vol. 166; p. 662.
Cooper, Robert J., Jr., R. M. Sandford, and W. Brady, New Rochelle, N. Y. Machine for removing waste gilding. No. 1,005,694; Oct. 10; Sp. p. 2477; Gaz. vol. 171; p. 425.
Cooper, Stanley, Solihull, England. Coaster-hub for cycles and the like. No. 993,760; May 30; Sp. p. 6312; Gaz. vol. 166; p. 1139.
Cooper, Thomas, Ranger, Tex. Cooling device. No. 994,127; June 6; Sp. p. 51; Gaz. vol. 167; p. 11.
Cooper, Thomas, Farfield, Kidderminster, England. Tuft-yarn-carrying spools of looms for weaving tufted fabrics. No. 1,005,603; Oct. 10; Sp. p. 2286; Gaz. vol. 171; p. 393.
Cooper, Truesdell, and J. H. Brigance, Denver, Colo. Foundation-lining for maternity-gowns. No. 1,000,718; Aug. 15; Sp. p. 3243; Gaz. vol. 169; p. 586.
Cooper Underwear Co. (See Cooper, Henry S., assignor.)
Cooper, William, Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 985,400; Feb. 28; Sp. p. 4627; Gaz. vol. 163; p. 830.
Cooper, William, Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 990,958; May 2; Sp. p. 282; Gaz. vol. 166; p. 49.
Cooper, William, Wilkinsburg, Pa., assignor, by mesne assignments, to The Westinghouse Air Brake Company. Vehicle braking system. No. 1,003,035; Sept. 12; Sp. p. 1888; Gaz. vol. 170; p. 326.
Cooper, William A., Montreal, Quebec, Canada. Ladder for sleeping-cars. No. 989,570; Apr. 18; Sp. p. 2736; Gaz. vol. 165; p. 488.
Coopersmith, Rudolph, St. Louis, Mo. Sofa-bedstead. No. 994,720; June 13; Sp. p. 1358; Gaz. vol. 167; p. 253.

Coover, Charles M. (See Zellers, Levi A., assignor.)
Coover, Martin L., near Degraff, Ohio. Hay-unloader. No. 996,216; June 27; Sp. p. 4648; Gaz. vol. 167; p. 829.
Cope, Obadiah. (See Weber and Cope.)
Cope, Thomas J., Philadelphia, Pa. Elevating-jack for multiple wires and cables. No. 1,002,647; Sept. 5; Sp. p. 1036; Gaz. vol. 170; p. 155.
Cope, Thomas J., Philadelphia, Pa. Coupling for cables, wires, ropes, &c. No. 1,012,328; Dec. 19; Sp. p. 4335; Gaz. vol. 173; p. 743.
Copeland, George W., Bethany, Miss. Cultivator-tooth. No. 989,232; Apr. 11; Sp. p. 1981; Gaz. vol. 165; p. 340.
Copeland, Hugh, Hertford, N. C. Animal-trap. No. 993,033; May 23; Sp. p. 4728; Gaz. vol. 166; p. 861.
Copeland, James W., and E. Hamilton, Wynne, Ark. Rubber swimming-glove. No. 1,008,117; Nov. 7; Sp. p. 1011; Gaz. vol. 172; p. 164.
Copeland, William. (See Blankinship and Copeland.)
Copeman, Lloyd G., Flint, Mich. Electrically-heated cooker. No. 1,005,811; Oct. 17; Sp. p. 2713; Gaz. vol. 171; p. 496.
Copenhaver, Emory H., California, and W. Colvin, Dunlevy, Pa. Wheel. No. 980,607; Jan. 3; Sp. p. 927; Gaz. vol. 162; p. 150.
Copet-Hardenne, Méhul, Pondrome, Belgium. Scaling device. No. 983,875; Feb. 14; Sp. p. 1353; Gaz. vol. 163; p. 243.
Copley, William N. R., Kittanning, Pa. Rail-joint. No. 1,004,373; Sept. 26; Sp. p. 4809; Gaz. vol. 170; p. 849.
Coppell, Frank B. (See Hilton and Coppell.)
Copper Clad Malleable Range Company. (See Scruggs, Loyd, assignor.)
Copper Oil Products Company. (See Ellis, Carleton, assignor.)
Coppock, Lembert W., assignor of one-half to J. G. Niblick, Decatur, Ind. Forming steel connecting-rods. No. 986,547; Mar. 14; Sp. p. 1681; Gaz. vol. 164; p. 298.
Coppock, Lembert W., assignor of one-half to J. G. Niblick, Decatur, Ind. Steel connecting-rod. No. 1,006,632; Oct. 24; Sp. p. 4585; Gaz. vol. 171; p. 817.
Copyograph Manufacturing Company, The. (See Oiler, Frank E., assignor.)
Corbeau, Charles, Jr., South Bethlehem, Pa. Safety slide-brake. No. 990,473; Apr. 25; Sp. p. 4723; Gaz. vol. 165; p. 830.
Corbett, Michael A., and F. E. Stevens, assignors to The Corbett-Stevens Company, Columbus, Ohio. Support or hanger for gas-meters. No. 988,930; Apr. 4; Sp. p. 1335; Gaz. vol. 165; p. 214.
Corbett-Stevens Company, The. (See Corbett and Stevens, assignors.)
Corbett, William H. (See Conger and Corbett.)
Corbin Cabinet Lock Company, The. (See Stone, Elmer B., assignor.)
Corbin, Frank F., Easthampton, Mass. Pipe-wrench. No. 983,267; Feb. 7; Sp. p. 13; Gaz. vol. 163; p. 5.
Corbin, Henry L., and F. S. Martin, Springfield, Mass. Wind-shield. No. 999,631; Aug. 1; Sp. p. 853; Gaz. vol. 169; p. 149.
Corbin, Julian E., Oakland, Cal. Gate. No. 985,325; Feb. 28; Sp. p. 4479; Gaz. vol. 163; p. 806.
Corbin, Philip, and E. L. Teich, New Britain, Conn.; said Teich assignor to said Corbin. Lock. No. 1,010,727; Dec. 5; Sp. p. 727; Gaz. vol. 173; p. 115.
Corbitt, Samuel R., *et al.* (See Menges, Albert C., assignor.)
Corbitt, Samuel T., Enid, Okla. Curtain. No. 1,009,722; Nov. 28; Sp. p. 4636; Gaz. vol. 172; p. 842.
Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 982,171; Jan. 17; Sp. p. 4413; Gaz. vol. 162; p. 739.
Corcoran, Cornelius B., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 982,657; Jan. 24; Sp. p. 5436; Gaz. vol. 162; p. 938.
Corcoran, Cornelius B., assignor to Underwood Automatic Typewriter Pay Station Company, New York, N. Y. Time-controlling mechanism for type-writing machines. No. 990,112; Apr. 18; Sp. p. 3882; Gaz. vol. 165; p. 671.
Corcoran, Patrick. (See Bivert, Eugene, assignor.)
Corcoran, William J., Cincinnati, Ohio. Vehicle-lamp. No. 980,493; Jan. 3; Sp. p. 690; Gaz. vol. 162; p. 111.
Cordeiro, Frederick J. B., Brookline, Mass., and C. Pulfrich, assignors to Firm of C. Zeiss, Jena, Germany. Angle-measuring instrument. No. 994,061; May 30; Sp. p. 6903; Gaz. vol. 166; p. 1240.
Corderman, John C., Appleton, Minn. Corn-harvester. No. 982,798; Jan. 31; Sp. p. 5752; Gaz. vol. 162; p. 1014.
Cordes, Frank, Hulton Station, assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Annealing-box. No. 1,012,248; Dec. 19; Sp. p. 4168; Gaz. vol. 173; p. 715.
Cordes, Frank, Hulton Station, assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Annealing-box. No. 1,012,249; Dec. 19; Sp. p. 4169; Gaz. vol. 173; p. 715.
Cordes, Henry, Denver, Colo. Combined seeding and cultivating machine. No. 985,570; Feb. 28; Sp. p. 5032; Gaz. vol. 163; p. 890.
Cordes, Henry, Denver, Colo. Combined roller and harrow. No. 985,728; Feb. 28; Sp. p. 5390; Gaz. vol. 163; p. 944.
Cordingly, Alfred, Denver, Colo. Car-wheel molding and casting flask. No. 1,003,709; Sept. 19; Sp. p. 3328; Gaz. vol. 170; p. 596.
Cordley, Henry G., Glen Ridge, N. J. Faucet. No. 981,842; Jan. 17; Sp. p. 3717; Gaz. vol. 162; p. 628.
Cordley, Henry G., Glen Ridge, N. J. Self-closing faucet. No. 987,218; Mar. 21; Sp. p. 3084; Gaz. vol. 164; p. 559.
Cords, Fred, assignor to G. Redford, Elmwood, Ontario, Canada. Bag-holder. No. 998,754; July 25; Sp. p. 4714; Gaz. vol. 168; p. 853.
Core, Frederick B., New York, N. Y. Photographic camera. No. 1,012,603; Dec. 26; Sp. p. 4882; Gaz. vol. 173; p. 879.
Corell, Clifton B., assignor, by mesne assignments, to J. D. Kelly, receiver, New York, N. Y. Adding-machine. No. 999,011; July 25; Sp. p. 5300; Gaz. vol. 168; p. 943.
Corey, Fred B., Schenectady, N. Y., assignor to General Electric Company. Return-indication device for electric interlocking systems. No. 996,460; June 27; Sp. p. 5210; Gaz. vol. 167; p. 913.
Corey, Fred B., Schenectady, N. Y., assignor to General Electric Company. Time-limit circuit-closer. No. 1,001,932; Aug. 29; Sp. p. 5860; Gaz. vol. 169; p. 1065.
Corey, Fred B., Schenectady, N. Y., assignor to General Electric Company. Relay contact. No. 1,002,648; Sept. 5; Sp. p. 1037; Gaz. vol. 170; p. 155.
Corey, William W., St. Louis, Mo. Fire-hydrant. No. 983,268; Feb. 7; Sp. p. 16; Gaz. vol. 163; p. 5.
Corfield, Joseph T., New York, N. Y. Automatic printing-machine. No. 995,770; June 20; Sp. p. 3677; Gaz. vol. 167; p. 641.
Corkery, William F., Taunton, Mass. Eyelet-holding apparatus. No. 1,012,192; Dec. 19; Sp. p. 4049; Gaz. vol. 173; p. 696.
Corley, Clifton, and W. E. Williams, Tennille, assignors to Corley Textile Specialty Co., Atlanta, Ga. Tensioning device. No. 988,444; Apr. 4; Sp. p. 334; Gaz. vol. 165; p. 54.
Corley Textile Specialty Co. (See Corley and Williams, assignors.)
Corliss, Burt B., Omaha, Nebr. Condensing or evaporating liquids. No. 986,365; Mar. 7; Sp. p. 1277; Gaz. vol. 164; p. 206.
Corliss, Herbert A., Grants Pass, Oreg. Nut-lock. No. 983,540; Feb. 7; Sp. p. 606; Gaz. vol. 163; p. 96.
Corliss, William J., Jersey City, N. J. Metallic vessel. No. 994,128; June 6; Sp. p. 52; Gaz. vol. 167; p. 11.
Cormier, Reuben S., New Bedford, Mass. Car-fender. No. 990,805; Apr. 25; Sp. p. 5476; Gaz. vol. 165; p. 943.
Corn Products Refining Company. (See Jefferies, Fredrick L., assignor.)
Cornaro, Gioanni, Turin, Italy. Explosive. No. 989,947; Apr. 18; Sp. p. 3559; Gaz. vol. 165; p. 618.
Cornaro, Gioanni, Turin, Italy. Explosive. No. 989,948; Apr. 18; Sp. p. 3560; Gaz. vol. 165; p. 618.
Cornaro, Gioanni, Turin, Italy. Explosive. No. 990,036; Apr. 18; Sp. p. 3740; Gaz. vol. 165; p. 647.
Corne, Charles, New Orleans, La. Evaporating apparatus. No. 1,012,523; Dec. 19; Sp. p. 4701; Gaz. vol. 173; p. 808.
Corne, Henry P., Windsor, Ill. Disk harrow. No. 989,338; Apr. 11; Sp. p. 2224; Gaz. vol. 165; p. 377.
Cornelius, Albert F., Berea, Ky. Legging. No. 998,755; July 25; Sp. p. 4715; Gaz. vol. 168; p. 853.
Cornelius, Charles H., assignor of one-half to J. Warrington, Fresno, Cal. Flying-machine. No. 987,796; Mar. 28; Sp. p. 4303; Gaz. vol. 164; p. 784.
Cornelius, Ferdinand, and G. Schatte, assignors to Fried. Krupp Aktiengesellschaft Grusonwerk, Magdeburg-Buckau, Germany. Apparatus for transferring track-traversing vehicles from one set of rails to another. No. 981,617; Jan. 17; Sp. p. 3242; Gaz. vol. 162; p. 551.
Cornelius, Louis A., Grand Rapids, Mich. Tool for removing obstructions in pipes. No. 984,473; Feb. 14; Sp. p. 2621; Gaz. vol. 163; p. 443.
Cornelius, Louis A., Grand Rapids, Mich. Milling-cutter. No. 990,230; Apr. 25; Sp. p. 4158; Gaz. vol. 165; p. 744.
Cornelius, Louis A., Grand Rapids, Mich. Valve-float. No. 992,546; May 16; Sp. p. 3700; Gaz. vol. 166; p. 662.
Cornelius, Louis A., Grand Rapids, Mich. Tank-valve ball. No. 1,001,621; Aug. 29; Sp. p. 5167; Gaz. vol. 169; p. 957.
Cornelius, Louis A., Grand Rapids, Mich. Valve-seating tool. No. 1,007,068; Oct. 31; Sp. p. 5540; Gaz. vol. 171; p. 1020.
Cornelius, Samuel S., McDowell, Mo. Insulator. No. 1,011,164; Dec. 12; Sp. p. 1723; Gaz. vol. 173; p. 301.
Corneliussen, Ivar, Galveston, Tex. Fire-extinguishing system. No. 983,606; Feb. 7; Sp. p. 760; Gaz. vol. 163; p. 119.
Corneliussen, Ivar, Galveston, Tex. Amusement device. No. 987,859; Mar. 28; Sp. p. 4433; Gaz. vol. 164; p. 806.
Cornell, George S. (See McCune, Frank R., assignor.)
Cornell, Howard V., Denver, Colo. Valve-controlled mechanism for gas and other fluids. No. 981,174; Jan. 10; Sp. p. 2275; Gaz. vol. 162; p. 376.
Cornell, James. (See Lincoln and Cornell.)
Cornell, Lawrence E. (See Billman and Cornell.)

Alphabetical list of patentees—Continued.

Cornely, Robert, Paris, France. Sewing and embroidering machine. No. 1,003,986; Sept. 26; Sp. p. 3945; Gaz. vol. 170; p. 716.
Cornett, Mike W., Miami, Tex. Wire stretcher and splicer. No. 1,008,788; Nov. 14; Sp. p. 2625; Gaz. vol. 172; p. 440.
Corning Glass Works. (See Churchill, William, assignor.)
Cornish, H. B., Sr., *et al.* (See Voigt, Charles L., assignor.)
Cornish, Harry S., New York, N. Y. Apparatus for automatically measuring, mixing, and delivering carbonated liquids. No. 992,166; May 16; Sp. p. 2840; Gaz. vol. 166; p. 529.
Cornwall, Charles, assignor to The Deming Company, Salem, Ohio. Lock for pump-handles. No. 986,366; Mar. 7; Sp. p. 1279; Gaz. vol. 164; p. 207.
Cornwall, Frederick R., St. Louis, Mo., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-hanger mounting. No. 989,339; Apr. 11; Sp. p. 2226; Gaz. vol. 165; p. 377.
Cornwall, John B., assignor to The Barnard and Leas Manufacturing Company, Moline, Ill. Cotton-seed-cleaning machine. No. 989,233; Apr. 11; Sp. p. 1983; Gaz. vol. 165; p. 341.
Cornwall, John B., assignor to Barnard and Leas Manufacturing Company, Moline, Ill. Cone-aspirator. No. 997,372; July 11; Sp. p. 1629; Gaz. vol. 168; p. 295.
Corporation of Adlerwerke vorm. Heinrich Kleyer A.-G., The. (See Strauss, Franz P., assignor.)
Corporation of Dellwik-Fleischer Wassergas-Gesellschaft m. b. H. (See Spitzer, Bernhard, assignor.)
Correll, Friedrich, New York, N. Y. Floating derrick. No. 1,000,152; Aug. 8; Sp. p. 1982; Gaz. vol. 169; p. 356.
Corrigan, William. (See Unger and Corrigan.)
Corrington, Aldon R. (See Frambach and Corrington.)
Corroyer, Joseph, Oakland, Cal. Acetylene-gas generator. No. 993,573; May 30; Sp. p. 5888; Gaz. vol. 166; p. 1073.
Corrugated Bar Company. (See Johnson, Albert L., assignor.)
Corry Metal Furniture Company, The. (See Linden, Charles A., assignor.)
Corser, Norman D. (See Turner and Corser.)
Corson, E. H. (See Stone, Charles E., assignor.)
Corson, Elbridge H., Boston, Mass. Time-indicator. No. 1,002,227; Sept. 5; Sp. p. 79; Gaz. vol. 170; p. 9.
Corson, Harry L., Dayton, Ohio. Means for inflating pneumatic tires. No. 993,655; May 30; Sp. p. 6086; Gaz. vol. 166; p. 1102.
Cort, Charles H., San Francisco, Cal. Feed-water purifier. No. 1,001,189; Aug. 22; Sp. p. 4284; Gaz. vol. 169; p. 782.
Cortelyou, Joseph S., Brooklyn, N. Y. Internal-combustion engine. No. 980,494; Jan. 3; Sp. p. 692; Gaz. vol. 162; p. 112.
Corthesy, Jules H., London, assignor of one-half to H. Fuller, Wivenhoe, England. Turbine. No. 981,175; Jan. 10; Sp. p. 2276; Gaz. vol. 162; p. 376.
Corthill, Mary A. (See Kraft and Fetzer, assignors.)
Corwin, Clifford A., Riverhead, N. Y. Cultivator. No. 1,004,374; Sept. 26; Sp. p. 4810; Gaz. vol. 170; p. 850.
Corwin, John, Chicago, Ill. Vehicle-tire. No. 981,618; Jan. 17; Sp. p. 3244; Gaz. vol. 162; p. 551.
Cory, Charles B., assignor of forty-nine one-hundredths to W. H. Osgood, Chicago, Ill. Golf game. No. 1,012,820; Dec. 26; Sp. p. 5391; Gaz. vol. 173; p. 957.
Cory & Reynolds Company. (See Reynolds, Fred S., assignor.)
Cory & Son, Charles. (See Henschel, Charles J., assignor.)
Coryell Automobile Sign-Holder Company. (See Coryell, Frank, assignor.) (Reissue.)
Coryell, Edwin M., Passaic, N. J., assignor to J. E. Cameron, New York, N. Y. Interchangeable engine. No. 1,000,584; Aug. 15; Sp. p. 2953; Gaz. vol. 169; p. 540.
Coryell, Frank, Trenton, N. J., assignor to Coryell Automobile Sign-Holder Company. Automobile sign-holder. (Reissue.) No. 13,291; Sept. 19; Sp. p. 3897; Gaz. vol. 170; p. 684.
Coryell, William C., Youngstown, Ohio. Reinforcing-bar for concrete and similar structures. No. 1,002,565; Sept. 5; Sp. p. 862; Gaz. vol. 170; p. 127.
Cosand, Aaron P. (See Spears, Mathew E., assignor.)
Cosby, Clarence, Richmond, Va. Can-shearing machine. No. 1,006,439; Oct. 17; Sp. p. 4114; Gaz. vol. 171; p. 717.
Cosden, Joshua S., Bigheart, Okla. Oil distilling and refining apparatus. No. 981,176; Jan. 10; Sp. p. 2278; Gaz. vol. 162; p. 376.
Cosgrove, Edwin H., assignor to Miller Lock Co., Philadelphia, Pa. Padlock. No. 980,608; Jan. 3; Sp. p. 929; Gaz. vol. 162; p. 150.
Cosiolkofsky, Karl, Vaals, Netherlands. Arc-lamp. No. 1,007,674; Nov. 7; Sp. p. 31; Gaz. vol. 172; p. 8.
Coslett, Thomas W., Birmingham, England. Treatment of iron or steel to prevent the oxidation or rusting thereof. No. 1,007,069; Oct. 31; Sp. p. 5541; Gaz. vol. 171; p. 1020.
Cosper, William P., Chicago, Ill. Heating system. No. 1,012,329; Dec. 19; Sp. p. 4337; Gaz. vol. 173; p. 743.
Coss, James C., Detroit, Mich. Bow-socket separator. No. 1,002,649; Sept. 5; Sp. p. 1038; Gaz. vol. 170; p. 155.
Cossey, Myron, assignor to Reliance Ball-Bearing Door Hanger Co., New York, N. Y. Door-hanger. No. 1,002,902; Sept. 12; Sp. p. 1626; Gaz. vol. 170; p. 281.
Costa, John F., Centerville, Cal. Forming-machine. No. 1,004,852; Oct. 3; Sp. p. 660; Gaz. vol. 171; p. 108.
Costa, Joseph E., Los Angeles, Cal. Clean-out cover. No. 996,461; June 27; Sp. p. 5212; Gaz. vol. 167; p. 913.
Costello, Charles J., and S. G. Skinner, assignors to Skinner & Skinner Co., Chicago, Ill. Air-compressor. No. 1,005,940; Oct. 17; Sp. p. 3018; Gaz. vol. 171; p. 544.
Costello, George J., Philadelphia, Pa. Pipe bending and offsetting machine. No. 996,064; June 27; Sp. p. 4286; Gaz. vol. 167; p. 778.
Costello, George J., Philadelphia, Pa. Lathe. No. 999,701; Aug. 1; Sp. p. 988; Gaz. vol. 169; p. 173.
Costello, George W. (See Pandow, Emil G., assignor.)
Costello, John J., *et al.* (See Mundy, William J., assignor.)
Costello, John T., Pittsburg, Pa. Shock-absorber. No. 1,002,040; Aug. 29; Sp. p. 6085; Gaz. vol. 169; p. 1099.
Costello, Joseph A., assignor to Cleveland Car Specialty Company, Cleveland, Ohio. End carline for car-roofs. No. 983,688; Feb. 7; Sp. p. 935; Gaz. vol. 163; p. 148.
Costello, Joseph A., assignor to Cleveland Car Specialty Company, Cleveland, Ohio. Car-roof construction. No. 983,689; Feb. 7; Sp. p. 938; Gaz. vol. 163; p. 149.
Costello, Michael W., Boston, Mass. Holder for moth-repellents. No. 984,352; Feb. 14; Sp. p. 2381; Gaz. vol. 163; p. 403.
Costello, Thomas H., Chicago, Ill. Blackboard. No. 1,004,375; Sept. 26; Sp. p. 4813; Gaz. vol. 170; p. 850.
Costner, Robert E. (See James, Edgar, assignor.)
Coston Signal Company. (See Lawrence, Ernest M., assignor.)
Côte, Eugène F., and P. R. Pierron, Lyon, France. Electric furnace for the continuous extraction of zinc from its ores. No. 980,763; Jan. 3; Sp. p. 1248; Gaz. vol. 162; p. 201.
Coté, Henry, West Warren, assignor to Ware Machine & Loom Company, Ware, Mass. Reed. No. 990,528; Apr. 25; Sp. p. 4867; Gaz. vol. 165; p. 849.
Côté, Henry, West Warren, assignor to Draper Company, Hopedale, Mass. Center-fork stop-motion for looms. No. 994,820; June 13; Sp. p. 1575; Gaz. vol. 167; p. 288.
Côté, Henry, West Warren, Mass., assignor, by mesne assignments, to Draper Company. Loom harness-frame. No. 1,009,050; Nov. 21; Sp. p. 3174; Gaz. vol. 172; p. 563.
Côté, Henry, West Warren, and R. C. Snow, assignors to Ware Machine & Loom Company, Ware, Mass. Loom. No. 995,954; June 20; Sp. p. 4054; Gaz. vol. 167; p. 705.
Cotils, Alphonse, New York, N. Y. Pocket-lamp. No. 987,961; Mar. 28; Sp. p. 4721; Gaz. vol. 164; p. 843.
Cotoli, Antonio, Habana, Cuba. Rotary pump. No. 994,573; June 6; Sp. p. 981; Gaz. vol. 167; p. 162.
Cotoli, Antonio, Habana, Cuba. Machine for forming plastic materials into twisted shapes. No. 1,004,376; Sept. 26; Sp. p. 4814; Gaz. vol. 170; p. 850.
Cotta, Charles, Rockford, Ill. Change-speed gearing. No. 986,444; Mar. 14; Sp. p. 1455; Gaz. vol. 164; p. 262.
Cotter, John S., Sabula, Iowa, assignor to E. C. Stearns & Co., Syracuse, N. Y. Saw-tool. No. 988,290; Mar. 28; Sp. p. 5377; Gaz. vol. 164; p. 950.
Cotter, William J., Buffalo, N. Y. Head-rest for barbers' chairs. No. 1,004,630; Oct. 3; Sp. p. 176; Gaz. vol. 171; p. 31.
Cotton, Roland M., *et al.* (See Suits, Bert C., assignor.)
Cotton Seed and Cotton Improvement Association. (See Bowers and Franklin, assignors.)
Cotton Stalk Fiber Machine Company. (See Daniels and Kuhne, assignors.)
Cotton, Walter H., and T. D. Henderson, deceased, Chicago; L. J. Smith, administrator, Cook county, Ill. Draft-gear. No. 989,949; Apr. 18; Sp. p. 3561; Gaz. vol. 165; p. 618.
Cotton, Walter H., and H. J. Flood, assignors to Chisholm, Boyd & White Company, Chicago, Ill. Hydraulic press. No. 1,003,987; Sept. 26; Sp. p. 3947; Gaz. vol. 170; p. 716.
Cotton, William. (See Rössner and Cotton.)
Cottrell, Frederick G., Berkeley, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Cal. Separating and collecting particles of one liquid suspended in another liquid. No. 987,114; Mar. 21; Sp. p. 2821; Gaz. vol. 164; p. 519.
Cottrell, Frederick G., Berkeley, assignor, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Cal. Separating and collecting particles of one liquid suspended in another liquid. No. 994,377; June 6; Sp. p. 580; Gaz. vol. 167; p. 99.
Cottrell, Frederick G., and J. B. Speed, Berkeley, assignors, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Cal. Separating and collecting particles of one liquid suspended in another liquid. No. 987,115; Mar. 21; Sp. p. 2823; Gaz. vol. 164; p. 520.

Alphabetical list of patentees—Continued.

Cottrell, Frederick G., and J. B. Speed, Berkeley, assignors, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Cal. Apparatus for separating and collecting particles of one liquid suspended in another liquid. No. 987,116; Mar. 21; Sp. p. 2827; Gaz. vol. 164; p. 520.
Cottrell, Frederick G., and A. C. Wright, Berkeley, assignors, by mesne assignments, to Petroleum Rectifying Company, San Francisco, Cal. Separating and collecting particles of one liquid suspended in another liquid. No. 987,117; Mar. 21; Sp. p. 2830; Gaz. vol. 164; p. 521.
Cottrell, Fredrick E., Bishop, Cal. Safety-hook. No. 996,619; July 4; Sp. p. 53; Gaz. vol. 168; p. 10.
Coty, Alfred C. (See Geer and Coty.)
Couade, Maurice, Laon, France. Arrangement for continuous phonograph renderings. No. 999,097; July 25; Sp. p. 5471; Gaz. vol. 168; p. 973.
Couch, Albert B., Houston, Tex. Rice-hulling machine. No. 988,931; Apr. 4; Sp. p. 1336; Gaz. vol. 165; p. 215.
Couch, Albert B., Houston, Tex. Grain-polisher. No. 989,542; Apr. 11; Sp. p. 2663; Gaz. vol. 165; p. 447.
Couch, Buel, *et al.* (See Kneedler, John D., assignor.)
Coughlin, David E., Detroit, Mich. Tally-board. No. 1,009,383; Nov. 21; Sp. p. 3946; Gaz. vol. 172; p. 682.
Coughlin, Joseph D., South Boston, Mass., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 998,958; July 25; Sp. p. 5183; Gaz. vol. 168; p. 926.
Coughlin, Thomas, New York, N. Y. Level. No. 1,012,987; Dec. 26; Sp. p. 5786; Gaz. vol. 173; p. 1012.
Coughlin, Thomas W., Rochester, N. Y. Head and shoulder support for caskets. No. 985,512; Feb. 28; Sp. p. 4911; Gaz. vol. 163; p. 871.
Coughtry, William L., Slingerlands, N. Y. Discharging-doors for dumping-cars and other receptacles. No. 983,026; Jan. 31; Sp. p. 6269; Gaz. vol. 162; p. 1090.
Coulson, Ernest. (See Green, Coulson, and Callahan.)
Coulson, William A. (See Creed, Frederick G., assignor.)
Coulston, Earl V., assignor to Rock Island Stove Company, Rock Island, Ill. Stove or furnace. No. 1,008,698; Nov. 14; Sp. p. 2421; Gaz. vol. 172; p. 409.
Coultas, Edward D., Quaker City, Ohio. Mail-sack holder. No. 1,002,650; Sept. 5; Sp. p. 1039; Gaz. vol. 170; p. 155.
Coulter, Charles J., Denver, Colo. Combination rail-clamp and machine-tool. No. 990,115; Apr. 18; Sp. p. 3889; Gaz. vol. 165; p. 672.
Coulter, John W. (See Chauvet and Dowdall, assignors.)
Counselman, Jasper W. (See Robinson and Counselman.)
Counts, John B. R., Westminster, Md. Tie-plate and brace. No. 988,174; Mar. 28; Sp. p. 5145; Gaz. vol. 164; p. 912.
Counts, William, *et al.* (See Hoppie, William, assignor.)
Coup, Albert A., assignor of one-third to O. R. Burkart and one-third to E. C. Teuscher, St. Louis, Mo. Explosive toy. No. 1,003,879; Sept. 19; Sp. p. 3668; Gaz. vol. 170; p. 652.
Coupal, Peter A., South Boston, assignor of one-half to J. W. O'Neill, Lynn, Mass. Lasting-pincers. No. 1,009,478; Nov. 21; Sp. p. 4152; Gaz. vol. 172; p. 715.
Couplin, Levi S., South Greenfield, Mo. Fly-screen. No. 990,635; Apr. 25; Sp. p. 5080; Gaz. vol. 165; p. 885.
Courser, Fred M., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for skiving leather. No. 985,401; Feb. 28; Sp. p. 4629; Gaz. vol. 163; p. 830.
Courson, Charles L., Pitcairn, Pa. Indicating device for air-brake systems. No. 990,707; Apr. 25; Sp. p. 5267; Gaz. vol. 165; p. 909.
Courson, John F., Pitcairn, Pa. Draft-gear. No. 987,432; Mar. 21; Sp. p. 3531; Gaz. vol. 164; p. 631.
Courson, John F., Pitcairn, Pa. Draft-gear. No. 990,708; Apr. 25; Sp. p. 5269; Gaz. vol. 165; p. 909.
Courson, John F., Pitcairn, Pa. Draw-gear. No. 1,006,633; Oct. 24; Sp. p. 4586; Gaz. vol. 171; p. 817.
Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,006,634; Oct. 24; Sp. p. 4588; Gaz. vol. 171; p. 818.
Courson, John F., Pitcairn, Pa. Friction draft-gear. No. 1,011,034; Dec. 5; Sp. p. 1382; Gaz. vol. 173; p. 220.
Courtet, Jean B., Romans, France. Hydraulic ram. No. 1,005,417; Oct. 10; Sp. p. 1837; Gaz. vol. 171; p. 327.
Courtland, William A., Brooklyn, N. Y., assignor, by mesne assignments, to The Connecticut Hook & Eye Company, Waterbury, Conn. Cutting mechanism. No. 999,154; July 25; Sp. p. 5568; Gaz. vol. 168; p. 990.
Courtney, Ellwood W., Philadelphia, Pa. Pump. No. 987,962; Mar. 28; Sp. p. 4724; Gaz. vol. 164; p. 843.
Courtney, Martin, assignor of one-half to T. D. Kidd, Lima, Ohio. Wrench. No. 995,223; June 13; Sp. p. 2437; Gaz. vol. 167; p. 422.
Courtney, Thomas M., guardian. (See Howard, Fredrick, insane.)
Courtney, William J., assignor of one-half to W. J. Kennedy, Chicago, Ill. Knife-polishing machine. No. 1,004,747; Oct. 3; Sp. p. 431; Gaz. vol. 171; p. 72.
Courtney, William J., assignor of one-half to W. J. Kennedy, Chicago, Ill. Buffing-wheel. No. 1,011,323; Dec. 12; Sp. p. 2102; Gaz. vol. 173; p. 359.
Courts, Winfield F. (See McFadden, Francis, assignor.)
Courtwright, Edwin C., Sedan, Kans. Strainer. No. 1,008,527; Nov. 14; Sp. p. 2032; Gaz. vol. 172; p. 348.
Courville, Joseph, Detroit, Mich. Pneumatic piano-player. No. 1,003,237; Sept. 12; Sp. p. 2325; Gaz. vol. 170; p. 399.
Couse, John T., Cochran, Ga. Roofing compound. No. 981,916; Jan. 17; Sp. p. 3897; Gaz. vol. 162; p. 655.
Cousin, Frank, New York, N. Y. Animal-exerciser. No. 1,006,182; Oct. 17; Sp. p. 3554; Gaz. vol. 171; p. 629.
Cousin, Joseph B., Chicago, Ill. Food-receptacle for bird-cages. No. 992,167; May 16; Sp. p. 2843; Gaz. vol. 166; p. 529.
Cousins, Joseph J., New York, N. Y. Wrecking apparatus. No. 988,977; Apr. 11; Sp. p. 1434; Gaz. vol. 165; p. 253.
Coustley, Aaron, Pimpinio, Victoria, Australia. Envelop-opener. No. 999,965; Aug. 8; Sp. p. 1547; Gaz. vol. 169; p. 202.
Coutelle, Carl. (See Hofmann and Coutelle.)
Couture, Romain, Somersworth, N. H. Plane-knife guard. No. 998,873; July 25; Sp. p. 4986; Gaz. vol. 168; p. 895.
Couvrette, Charles L., deceased, Goldendale; V. C. Couvrette, administrator, South Bend, Wash. Means for carrying ships' launches. No. 1,013,087; Dec. 26; Sp. p. 5987; Gaz. vol. 173; p. 1047.
Couvrette, Victor C., administrator. (See Couvrette, Charles L.)
Covel, Earl. (See Borland, John A., assignor.)
Covell, Edwin A., Portland, Oreg. Landing-net. No. 985,114; Feb. 21; Sp. p. 3951; Gaz. vol. 163; p. 698.
Covell, Emma L., Richmond, Ind. Screen and window-frame therefor. No. 1,000,993; Aug. 22; Sp. p. 3869; Gaz. vol. 169; p. 716.
Covell, George S., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Rotary shoe-beating machine. No. 1,003,434; Sept. 19; Sp. p. 2718; Gaz. vol. 170; p. 499.
Covell, George S., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-ironing apparatus. No. 1,007,270; Oct. 31; Sp. p. 5990; Gaz. vol. 171; p. 1093.
Coventry, Theodore, assignor to Smith & Coventry, Limited, Salford, England. Gearing. No. 987,049; Mar. 14; Sp. p. 2707; Gaz. vol. 164; p. 468.
Covert, Edson C., New Kensington, Pa. Metallic carline. No. 982,412; Jan. 24; Sp. p. 4935; Gaz. vol. 162; p. 855.
Covert, Edson C., New Kensington, Pa. Trussed-beam construction. No. 993,574; May 30; Sp. p. 5889; Gaz. vol. 166; p. 1073.
Covert, Edson C., New Kensington, Pa. Truck side frame. No. 993,575; May 30; Sp. p. 5891; Gaz. vol. 166; p. 1074.
Covert, Edson C., New Kensington, Pa. Truck side frame. No. 993,576; May 30; Sp. p. 5892; Gaz. vol. 166; p. 1074.
Covert, Edson C., New Kensington, Pa. Truck side frame. No. 993,577; May 30; Sp. p. 5894; Gaz. vol. 166; p. 1074.
Covert, Edson C., New Kensington, Pa. Truck side frame. No. 993,578; May 30; Sp. p. 5897; Gaz. vol. 166; p. 1074.
Covert, Edson C., New Kensington, Pa. Truck side frame. No. 994,093; May 30; Sp. p. 6973; Gaz. vol. 166; p. 1250.
Covert, Edson C., New Kensington, Pa. Metallic car-roof construction. No. 996,564; June 27; Sp. p. 5404; Gaz. vol. 167; p. 946.
Covert, Edson C., New Kensington, assignor to P. H. Murphy, Pittsburg, Pa. Metal carline. No. 1,003,435; Sept. 19; Sp. p. 2720; Gaz. vol. 170; p. 499.
Covert, Edson C., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Molding-machine. No. 1,010,023; Nov. 28; Sp. p. 5266; Gaz. vol. 172; p. 944.
Covert, Edson C., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Jarring-machine. No. 1,010,024; Nov. 28; Sp. p. 5269; Gaz. vol. 172; p. 944.
Covert, James C., Watervliet, N. Y. Fire-escape. No. 993,350; May 30; Sp. p. 5397; Gaz. vol. 166; p. 997.
Covert, Jasper, Slippery Rock, Pa. Nut-lock. No. 999,632; Aug. 1; Sp. p. 856; Gaz. vol. 169; p. 149.
Covert, Martin B., Detroit, Mich. Frictional power-transmission mechanism. No. 990,844; May 2; Sp. p. 36; Gaz. vol. 166; p. 9.
Covey, David, Wichita, Kans. Rod-puller. No. 983,809; Feb. 7; Sp. p. 1173; Gaz. vol. 163; p. 188.
Covey, Nathan S., Corry, Pa. Furniture-caster. No. 983,210; Jan. 31; Sp. p. 6622; Gaz. vol. 162; p. 1151.
Cowdrey, Loren M., *et al.* (See Leggett and Appleyard, assignors.)
Cowell, Edwin, New York, N. Y. Gate. No. 986,269; Mar. 7; Sp. p. 1073; Gaz. vol. 164; p. 172.
Cowell, John W., Los Angeles, Cal. Thread-cutter. No. 1,005,604; Oct. 10; Sp. p. 2287; Gaz. vol. 171; p. 393.
Cowell, John W., San Francisco, Cal. Nut-lock. No. 1,009,479; Nov. 21; Sp. p. 4154; Gaz. vol. 172; p. 716.
Cowey, Leonard E., Kew Gardens, England. Tire-alarm. No. 995,224; June 13; Sp. p. 2438; Gaz. vol. 167; p. 422.
Cowie, Andrew S., *et al.* (See Flynn, Jeremiah J., assignor.)
Cowie, John A., Summerset, Iowa. Wire-stretcher. No. 990,845; May 2; Sp. p. 41; Gaz. vol. 166; p. 9.
Cowie, John T., assignor of one-half to H. Schaake, New Westminster, British Columbia, Canada. Gas-engine. No. 987,860; Mar. 28; Sp. p. 4437; Gaz. vol. 164; p. 806.
Cowin, Frederick, assignor to The Anglo American Provision Company, Chicago, Ill. Preserving food products. No. 990,113; Apr. 18; Sp. p. 3886; Gaz. vol. 165; p. 671.

Alphabetical list of patentees—Continued.

Cowing, Albert A., Watkins, N. Y. Manicuring implement. No. 982,201; Jan. 17; Sp. p. 4472; Gaz. vol. 162; p. 750.
Cowing, Arthur B. (See Heater, John C., assignor.)
Cowles, Arthur B., assignor to The Cowles Camp Company, Rochester, N. Y. Box-folding machine. No. 980,609; Jan. 3; Sp. p. 930; Gaz. vol. 162; p. 151.
Cowles, Arthur B., and O. A. Hanford, assignors to Rochester Wrapping Machine Company, Rochester, N. Y. Wrapping-machine. No. 986,548; Mar. 14; Sp. p. 1682; Gaz. vol. 164; p. 298.
Cowles Camp Company. (See Cowles, Arthur B., assignor.)
Cowles, Frank, Tekonsha, Mich. Hay and stock rack. No. 991,607; May 9; Sp. p. 1683; Gaz. vol. 166; p. 309.
Cowles, Irving. (See Gifford, Robert L., assignor.)
Cowles, Irving. (See Gifford and Cowles.)
Cowles, Irving, Chicago, Ill. Circulation-maintaining means for water-supply systems. No. 993,509; May 30; Sp. p. 5748; Gaz. vol. 166; p. 1050.
Cowles, Irving, Chicago, Ill. Pneumatic cushioning means. No 1,002,823; Sept. 12; Sp. p. 1422; Gaz. vol. 170; p. 253.
Cowles, Irving, assignor of one-half to R. L. Gifford, Chicago, Ill. Heating system. No. 987,861; Mar. 28; Sp. p. 4437; Gaz. vol. 164; p. 807.
Cowles, Irving, assignor to Cowles-MacDowell Engineering Co., Chicago, Ill. Pipe-hanger. No. 993,510; May 30; Sp. p. 5751; Gaz. vol. 166; p. 1051.
Cowles, Irving, assignor to Cowles-MacDowell Engineering Co., Chicago, Ill. Automatic suction by-pass for pumps. No. 995,057; June 13; Sp. p. 2120; Gaz. vol. 167; p. 368.
Cowles, Irving, and E. H. MacDowell, South Haven, Mich. Pneumatic spring device. No. 1,002,821; Sept. 12; Sp. p. 1415; Gaz. vol. 170; p. 252.
Cowles, Irving, and E. H. MacDowell, Chicago, Ill. Pneumatic cushioning device. No. 1,002,822; Sept. 12; Sp. p. 1419; Gaz. vol. 170; p. 253.
Cowles, Lucian A., assignor to E. C. Wright, Campello, Mass. Gluing apparatus. No. 1,010,594; Dec. 5; Sp. p. 428; Gaz. vol. 173; p. 68.
Cowles-MacDowell Engineering Co. (See Cowles, Irving, assignor.)
Cowles, Roy G., Flint, Mich. Sifter. No. 1,002,041; Aug. 29; Sp. p. 6088; Gaz. vol. 169; p. 1100.
Cowlishaw, John H., New Britain, Conn. Folding box with handle. No. 1,011,752; Dec. 12; Sp. p. 3042; Gaz. vol. 173; p. 508.
Cowper-Coles, Sherard O., Westminster, London, England. Lamp. No. 1,007,070; Oct. 31; Sp. p. 5543; Gaz. vol. 171; p. 1020.
Cowsill, Arthur. (See Coffron, Rutherford, assignor.)
Cox, Bishop A., Fayetteville, Ark. Minnow-trap. No. 1,005,605; Oct. 10; Sp. p. 2288; Gaz. vol. 171; p. 393.
Cox, Charles F., Bridgeton, N. J. Carbureter. No. 994,574; June 6; Sp. p. 984; Gaz. vol. 167; p. 163.
Cox, Charles H., Los Angeles, Cal. Pneumatic vibration-diffuser. No. 992,483; May 16; Sp. p. 3564; Gaz. vol. 166; p. 639.
Cox, Charles H., Los Angeles, Cal. Shock-absorbing apparatus for vehicles. No. 992,708; May 16; Sp. p. 4010; Gaz. vol. 166; p. 716.
Cox, Charles S., Kansas City, Mo. Automatic fire-alarm and animal-releasing device. No. 1,006,914; Oct. 24; Sp. p. 5208; Gaz. vol. 171; p. 915.
Cox, Claude E., Minneapolis, Minn. Clutch-disk. No. 991,482; May 9; Sp. p. 1397; Gaz. vol. 166; p. 263.
Cox, Edwin M., and J. S. Grange, assignors of one-third to E. L. Peacock, Orangeville, Utah. Furrower. No. 989,485; Apr. 11; Sp. p. 2516; Gaz. vol. 165; p. 426.
Cox, Ellen S. (See Cox, William D., assignor.)
Cox, Elmer E. and G. F., Bayard, Kans. Knockdown closure. No. 988,757; Apr. 4; Sp. p. 1008; Gaz. vol. 165; p. 160.
Cox, George F. (See Cox, Elmer E. and G. F.)
Cox, George E. (See Thompson, Alanson C., assignor.)
Cox, George G., Rensselaer, Ind. Portable bath-cabinet. No. 1,008,957; Nov. 14; Sp. p. 2962; Gaz. vol. 172; p. 495.
Cox, Henry B., Latham, Mo. Stirrup. No. 1,000,782; Aug. 15; Sp. p. 3389; Gaz. vol. 169; p. 609.
Cox, Hugh B., Texola, Okla. Nut-lock. No. 1,000,994; Aug. 22; Sp. p. 3871; Gaz. vol. 169; p. 716.
Cox, Irving J., Du Pont, Wash., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Making oleum. No. 1,002,824; Sept. 12; Sp. p. 1425; Gaz. vol. 170; p. 254.
Cox, John, San Francisco, Cal. Separator and purifier. No. 1,010,239; Nov. 28; Sp. p. 5689; Gaz. vol. 172; p. 1017.
Cox, John L., Murphysboro, Ill. Coal separator and grader. No. 1,002,967; Sept. 12; Sp. p. 1753; Gaz. vol. 170; p. 304.
Cox, Martin O., Alberson, Oreg. Trap. No. 1,009,283; Nov. 21; Sp. p. 3710; Gaz. vol. 172; p. 646.
Cox, Milton A. (See Leith and Cox.)
Cox Multi-Mailer Company. (See Cox, Sandford C., assignor.)
Cox Multi-Mailer Company. (See Huneke, John, assignor.)
Cox, Paul F., assignor to The Goss Printing Press Company, Chicago, Ill. Web-perfecting printing-press. No. 988,548; Apr. 4; Sp. p. 546; Gaz. vol. 165; p. 88.
Cox, Paul F., assignor to The Goss Printing Press Company, Chicago, Ill. Wind-shield for printing-presses. No. 988,549; Apr. 4; Sp. p. 549; Gaz. vol. 165; p. 88.
Cox, Sandford C., assignor to Cox Multi-Mailer Company, Chicago, Ill. Dust trap or collector. No. 983,352; Feb. 7; Sp. p. 203; Gaz. vol. 163; p. 35.
Cox, Sandford C., Edison Park, assignor to Cox Multi-Mailer Company, Chicago, Ill. Paper-tying machine. No. 1,000,995; Aug. 22; Sp. p. 3872; Gaz. vol. 169; p. 717.
Cox, Sandford C., Edison Park, assignor to Cox Multi-Mailer Company, Chicago, Ill. Folding and wrapping machine. No. 1,000,996; Aug. 22; Sp. p. 3873; Gaz. vol. 169; p. 717.
Cox, Sandford C., Edison Park, Ill., assignor to Cox Multi-Mailer Company, Augusta, Me. Delivery mechanism for addressing-machines. No. 1,001,507; Aug. 22; Sp. p. 4920; Gaz. vol. 169; p. 889.
Cox, Sandford C., Brookline, Mass., assignor to Cox Multi-Mailer Company, Augusta, Me. Printing-machine. No. 1,000,997; Aug. 22; Sp. p. 3875; Gaz. vol. 169; p. 717.
Cox, Stephen P., Bayport, N. Y. Pneumatic wheel. No. 1,003,238; Sept. 12; Sp. p. 2325; Gaz. vol. 170; p. 399.
Cox, William D., assignor of one-fifth to E. S. Cox, Highland Park, Ill. Washing device. No. 1,009,830; Nov. 28; Sp. p. 4869; Gaz. vol. 172; p. 879.
Cox, William G., Albany, N. Y. Sectional wind-shield. No. 982,658; Jan. 24; Sp. p. 5438; Gaz. vol. 162; p. 939.
Cox, William S., *et al.* (See Chown, James V., assignor.)
Coxhead, Ralph C., Oakland, Cal. Mathematical instrument. No. 985,978; Mar. 7; Sp. p. 484; Gaz. vol. 164; p. 77.
Coxwell, William H., Woodstock, Ill. Animal-trap. No. 1,003,091; Sept. 12; Sp. p. 2007; Gaz. vol. 170; p. 345.
Coykendall, Horatio G., San Jose, Cal. Apparatus for processing fruit. No. 985,979; Mar. 7; Sp. p. 486; Gaz. vol. 164; p. 77.
Coykendall, John B., Loveland, Colo. Brooder. No. 1,007,271; Oct. 31; Sp. p. 5992; Gaz. vol. 171; p. 1094.
Coyle, Harry E. (See Coyle, Henry C. and H. E.)
Coyle, Henry C. and H. E., Canton, Ohio. Stereopticon-screen and producing the same. No. 1,007,340; Oct. 31; Sp. p. 6130; Gaz. vol. 171; p. 1118.
Coyle, James R., assignor of one-half to E. J. Mitchell, Huntsville, Ala. Spark-plug. No. 992,168; May 16; Sp. p. 2844; Gaz. vol. 166; p. 529.
Coyle, James R., assignor of one-half to E. J. Mitchell, Huntsville, Ala. Luggage-carrier. No. 995,771; June 20; Sp. p. 3678; Gaz. vol. 167; p. 641.
Coyle, Thomas M., St. Louis, Mo. Purifier. No. 981,065; Jan. 10; Sp. p. 2051; Gaz. vol. 162; p. 337.
Coyne, Alfred F., and W. Barnhart, Menard, Ill. Rail-joint. No. 980,892; Jan. 3; Sp. p. 1555; Gaz. vol. 162; p. 246.
Coyne, Edmund M., Ensley, Ala. Grate-radiator. No. 996,703; July 4; Sp. p. 216; Gaz. vol. 168; p. 37.
Coyne, William, and J. J. Raskob, Wilmington, Del. Cipher-code. No. 983,482; Feb. 7; Sp. p. 487; Gaz. vol. 163; p. 78.
Crabb, Ira N., Englewood, Colo. Platen-lock for typewriting machines. No. 981,386; Jan. 10; Sp. p. 2765; Gaz. vol. 162; p. 449.
Crabb, Isaiah, West Union, Iowa. Cylinder and water-jacket for internal-combustion engines. No. 1,008,789; Nov. 14; Sp. p. 2627; Gaz. vol. 172; p. 440.
Crabb, Roy W. H., Battle Creek, Mich. Incubator. No. 986,367; Mar. 7; Sp. p. 1280; Gaz. vol. 164; p. 207.
Crabill, John W., Plattsmouth, Nebr. Sharpening device. No. 987,862; Mar. 28; Sp. p. 4442; Gaz. vol. 164; p. 807.
Crabill, John W., Plattsmouth, Nebr. Sharpening device. No. 992,339; May 16; Sp. p. 3265; Gaz. vol. 166; p. 589.
Crabtree, George W., Centerville, Tenn. Trap. No. 988,863; Apr. 4; Sp. p. 1208; Gaz. vol. 165; p. 193.
Crabtree, Thomas. (See Persons, Crabtree, and Darling.)
Crabtree, William H., near Upland, Cal. Wine-press. No. 1,011,921; Dec. 19; Sp. p. 3433; Gaz. vol. 173; p. 601.
Cracraft-Leich Electric Co. (See Leich, Oscar M., assignor.)
Cracraft-Leich Electric Company. (See Pedersen, Niels, assignor.)
Cracroft, Chester O., Cordova, Alaska. Water-cycle. No. 1,000,076; Aug. 8; Sp. p. 1798; Gaz. vol. 169; p. 330.
Craddick, Charles F., Butte, Mont. Windmill. No. 1,009,896; Nov. 28; Sp. p. 4985; Gaz. vol. 172; p. 900.
Craddock, Alfred, Newport, Ky., assignor of one-half to D. W. O'Neil, Norwood, Ohio. Collar-fastening. No. 1,000,153; Aug. 8; Sp. p. 1984; Gaz. vol. 169; p. 356.
Craddock, Frederick L. (See Stanford and Craddock.)
Craft, Edward B. (See Holmes and Craft.)
Craft, Edward B., Hackensack, N. J., assignor to Western Electric Company, New York, N. Y. Spring-jack switch. No. 1,004,244; Sept. 26; Sp. p. 4563; Gaz. vol. 170; p. 807.
Craft, Edward B., Hackensack, N. J., assignor to Western Electric Company, New York, N. Y. Switch-key. No. 1,012,125; Dec. 19; Sp. p. 3901; Gaz. vol. 173; p. 675.

Alphabetical list of patentees—Continued.

Craft, John R., *et al.* (See Stokes, Homer, assignor.)
Craft, William L., *et al.* (See Stokes, Homer, assignor.)
Cragg, George L., *et al.* (See Harvey, George L., assignor.)
Cragg, George L., assignor to Bradley and Vrooman Company, Chicago, Ill. Apparatus for coating objects with subdivided material. No. 988,978; Apr. 11; Sp. p. 1436; Gaz. vol. 165; p. 254.
Craggs, Ross V., Baltimore, Md. Fluid-pressure-operated bottle-capping machine. No. 985,010; Feb. 21; Sp. p. 3750; Gaz. vol. 163; p. 662.
Craig, A. (See Haniquet, George, assignor.)
Craig, Clyde L., Washington Court-House, Ohio. Folding table. No. 996,908; July 4; Sp. p. 646; Gaz. vol. 168; p. 105.
Craig, David J., Honolulu, Hawaii. Lunch-box. No. 1,007,646; Oct. 31; Sp. p. 6798; Gaz. vol. 171; p. 1222.
Craig, Francis A., Carmichaels, Pa. Automatic lateral-stabilizing mechanism for aeroplanes. No. 1,009,384; Nov. 21; Sp. p. 3948; Gaz. vol. 172; p. 683.
Craig, Frank R., assignor of one-half to W. L. Tobey, Hamilton, Ohio. Means and method of demagnetizing paper. No. 993,034; May 23; Sp. p. 4731; Gaz. vol. 166; p. 861.
Craig, James, New York, N. Y. Clutch. No. 991,832; May 9; Sp. p. 2157; Gaz. vol. 166; p. 384.
Craig, James A., Toronto, Ontario, Canada. Feed-blending machine. No. 1,001,508; Aug. 22; Sp. p. 4923; Gaz. vol. 169; p. 889.
Craig, John R., Jr., assignor to Phonofilm Syndicate, London, England. Gramophone-record and holder for the same. No. 992,169; May 16; Sp. p. 2846; Gaz. vol. 166; p. 530.
Craig, Levi, Corinth, Ky. Shears. No. 1,005,606; Oct. 10; Sp. p. 2290; Gaz. vol. 171; p. 394.
Craig, Levi, Corinth, Ky. Removable window stop-strip. No. 1,006,360; Oct. 17; Sp. p. 3965; Gaz. vol. 171; p. 690.
Craig, Orral E., Isabel, Ill. Rotary corn-grader. No. 990,341; Apr. 25; Sp. p. 4420; Gaz. vol. 165; p. 782.
Craig, Robert B., and A. Coffman, Dayton, Ohio, assignors to The Automatic Vending Machines Company, Kansas City, Mo. Severing mechanism. No. 981,534; Jan. 10; Sp. p. 3068; Gaz. vol. 162; p. 500.
Craig, Robert B., and A. Coffman, assignors to Automatic Vending Machines Company, Kansas City, Mo. Automatic vending-machine. No. 987,701; Mar. 28; Sp. p. 4099; Gaz. vol. 164; p. 752.
Craig, Robert B., and A. Coffman, assignors to Automatic Vending Machines Company, Kansas City, Mo. Automatic vending-machine. No. 987,702; Mar. 28; Sp. p. 4108; Gaz. vol. 164; p. 752.
Craig, Sanders, Eagle Station, Ky. Fifth-wheel for vehicles. No. 993,035; May 23; Sp. p. 4732; Gaz. vol. 166; p. 861.
Craig, Thomas J. I., assignor to Peter Spence & Sons Limited, Manchester, England. Manufacture of sodium bichromate. No. 994,129; June 6; Sp. p. 55; Gaz. vol. 167; p. 11.
Craig, William A., New Era, La. Horse-detacher. No. 1,001,731; Aug. 29; Sp. p. 5398; Gaz. vol. 169; p. 996.
Craig, William J., Belvidere, Ill. Kite. No. 987,963; Mar. 28; Sp. p. 4726; Gaz. vol. 164; p. 843.
Craig, William M., Marion, Ohio. Chair-leg supporter. No. 1,005,695; Oct. 10; Sp. p. 2479; Gaz. vol. 171; p. 425.
Craig, William S., assignor of one-half to C. W. Schmehl, St. Marys, Ohio. Portable jib-crane. No. 998,469; July 18; Sp. p. 4066; Gaz. vol. 168; p. 720.
Crain, Benjamin. (See Crain, Rollie and B.)
Crain, Rollie and B., Marion, Ill. Self-feeder and band-cutter for threshing-machines. No. 1,004,377; Sept. 26; Sp. p. 4821; Gaz. vol. 170; p. 851.
Craite, Jerome. (See Gardner, William R., assignor.)
Craley, Clarence C., Harrisburg, Pa. Metal-working machinery. No. 1,007,185; Oct. 31; Sp. p. 5822; Gaz. vol. 171; p. 1063.
Cram, Alonzo W., Haverhill, Mass. Sewer-trap. No. 1,000,719; Aug. 15; Sp. p. 3244; Gaz. vol. 169; p. 586.
Cram, Edwin B., Brooklyn, N. Y., assignor to New York Adding Typewriter Company, Orange, N. J. Type-bar-operating mechanism. No. 988,979; Apr. 11; Sp. p. 1438; Gaz. vol. 165; p. 254.
Cram, Marshall M., Belgrade, Minn. Profile measuring and recording device. No. 987,863; Mar. 28; Sp. p. 4443; Gaz. vol. 164; p. 808.
Cram, William E., Eastford, Conn. Lacing-fastener. No. 987,556; Mar. 21; Sp. p. 3764; Gaz. vol. 164; p. 672.
Cramer, Benjamin F., Salt Lake City, Utah. Means for adjusting oven-shelves. No. 999,633; Aug. 1; Sp. p. 858; Gaz. vol. 169; p. 149.
Cramer, Eduard, assignor to Terrasit-Industrie G. m. b. H., Berlin, Germany. Manufacture of dry mortar or plaster. No. 1,006,725; Oct. 24; Sp. p. 4755; Gaz. vol. 171; p. 847.
Cramer, Edwin R., Pittsburg, Pa. Wind-shield hinge. No. 985,571; Feb. 28; Sp. p. 5035; Gaz. vol. 163; p. 890.
Cramer, G. (See Earle, Charles W., assignor.)
Cramer, Philipp, Newark, N. J. Hydraulic clutch. No. 993,825; May 30; Sp. p. 6447; Gaz. vol. 166; p. 1161.
Cramer, Stuart W., and W. B. Hodge, Charlotte, N. C.; said Hodge assignor to said Cramer. Humidifying and air-moistening apparatus. No. 996,217; June 27; Sp. p. 4649; Gaz. vol. 167; p. 830.
Crammond, William A., New York, N. Y. Flexible pipe-coupling. No. 1,006,830; Oct. 24; Sp. p. 5020; Gaz. vol. 171; p. 886.
Crampton, Basil R., Chicago, Ill. Latch for doors and other places. No. 988,313; Apr. 4; Sp. p. 33; Gaz. vol. 165; p. 8.
Crandall, Benjamin J., Chicago, Ill. Ventilator and storm-shield. No. 990,474; Apr. 25; Sp. p. 4725; Gaz. vol. 165; p. 831.
Crandall, Charles F., Rochester, N. Y. Nailing implement. No. 992,547; May 16; Sp. p. 3701; Gaz. vol. 166; p. 662.
Crandall, Henry F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Road-roller. No. 990,846; May 2; Sp. p. 42; Gaz. vol. 166; p. 9.
Crandall, Henry F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Road-roller. No. 990,847; May 2; Sp. p. 44; Gaz. vol. 166; p. 10.
Crandall, Jay E., assignor to National Sewing Machine Company, Belvidere, Ill. Lubricator. No. 1,007,849; Nov. 7; Sp. p. 476; Gaz. vol. 172; p. 70.
Crandell, Austin E., Everett, Wash. Multiple-bit boring-machine. No. 989,486; Apr. 11; Sp. p. 2517; Gaz. vol. 165; p. 426.
Crandell, James D. (See Beal and Crandell.)
Crane Company. (See Stewart, Harry S., assignor.)
Crane, Daniel, Saginaw, Mich. Magnetic attachment for measuring-tapes. No. 992,170; May 16; Sp. p. 2847; Gaz. vol. 166; p. 530.
Crane, Edward M., Hardwick, Vt. Cap. No. 1,012,988; Dec. 26; Sp. p. 5787; Gaz. vol. 173; p. 1012.
Crane, Edwin F., Buffalo, N. Y. Book-holder. No. 993,761; May 30; Sp. p. 6315; Gaz. vol. 166; p. 1139.
Crane, Frank B. (See Chase, Warren A., assignor.)
Crane, Frank H., Cleveland, Ohio. Trolley-pole attachment. No. 991,957; May 9; Sp. p. 2401; Gaz. vol. 166; p. 427.
Crane, Harrie D. (See Mann, Charles A., assignor.)
Crane, Harry T., Cincinnati, Ohio. Incandescent electric lamp. No. 990,709; Apr. 25; Sp. p. 5271; Gaz. vol. 165; p. 909.
Crane, Henry R., Los Angeles, Cal. Display apparatus. No. 1,012,989; Dec. 26; Sp. p. 5787; Gaz. vol. 173; p. 1012.
Crane, John E., *et al.* (See Stein, Georg V., assignor.)
Crane, Joseph W., and R. L. Graves, Memphis, Tenn. Artificial minnow or fish. No. 1,010,481; Dec. 5; Sp. p. 183; Gaz. vol. 173; p. 30.
Crane, Martin S., Hoboken, N. J. Device for securing together glass plates for store-fronts. No. 994,721; June 13; Sp. p. 1360; Gaz. vol. 167; p. 254.
Crane, Martin S., Hoboken, N. J. Store-front setting. No. 1,007,675; Nov. 7; Sp. p. 32; Gaz. vol. 172; p. 9.
Crane, Raymond E., Cameron, W. Va. Manufacture of lavatories and the like. No. 1,001,622; Aug. 29; Sp. p. 5168; Gaz. vol. 169; p. 958.
Crane, Raymond E., and O. J. Backus, Newark, N. J. Basin and bath supply fitting. No. 991,703; May 9; Sp. p. 1899; Gaz. vol. 166; p. 343.
Crane, Samuel G. (See Freeman and Crane.)
Crane, Walter E., Hartford, Conn., assignor, by mesne assignments, to Pollard-Alling Manufacturing Company. Folding, wrapping, and addressing machine. No. 995,327; June 13; Sp. p. 2637; Gaz. vol. 167; p. 456.
Crank, George W., Madrid, Iowa. Escapement-wheel. No. 991,048; May 2; Sp. p. 458; Gaz. vol. 166; p. 79.
Crank, Nathaniel, Hill City, Kans. Vapor-cabinet. No. 1,010,595; Dec. 5; Sp. p. 431; Gaz. vol. 173; p. 69.
Cranshaw, George H. (See Renshaw, Fairhurst, and Cranshaw.)
Crary, Charles A. (See Odenbaugh and Crary.)
Crary, Ralph W., Sturgeon Bay, Wis., and O. E. McMeans, Indianapolis, Ind. Time and wage computer. No. 981,066; Jan. 10; Sp. p. 2052; Gaz. vol. 162; p. 337.
Cratty, Josiah, *et al.* (See Bunnell, Morton G., assignor.)
Craven, Harry, Pittsfield, Ill. Gun-silencer. No. 984,750; Feb. 21; Sp. p. 3261; Gaz. vol. 163; p. 576.
Craven, James F., Pittsburg, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 993,511; May 30; Sp. p. 5753; Gaz. vol. 166; p. 1051.
Craven, James F., Pittsburg, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 993,512; May 30; Sp. p. 5755; Gaz. vol. 166; p. 1051.
Craven, James F., Pittsburg, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 993,579; May 30; Sp. p. 5898; Gaz. vol. 166; p. 1075.
Craven, James F., Pittsburg, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 993,580; May 30; Sp. p. 5900; Gaz. vol. 166; p. 1075.
Craven, James F., Pittsburg, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 997,182; July 4; Sp. p. 1235; Gaz. vol. 168; p. 200.
Craven, Thomas. (See Chivers, Algernon S., assignor.)
Craven, William D., Jr., Ridley Park, Pa. Furnace for drying sand and crushed stone. No. 1,005,516; Oct. 10; Sp. p. 2058; Gaz. vol. 171; p. 361.
Cravens, Frank S., Lexington, Ky. Air-brake mechanism. No. 988,864; Apr. 4; Sp. p. 1210; Gaz. vol. 165; p. 193.
Cravens, George W., assignor to Delta-Star Electric Company, Chicago, Ill. Automatic cut-out. No. 1,009,956; Nov. 28; Sp. p. 5108; Gaz. vol. 172; p. 921.

Alphabetical list of patentees—Continued.

Cravens, Samuel L. (See Swift, Edwin M., assignor.)
Crawford, Abner W., deceased, Toronto, Ontario, Canada; The Trusts and Guarantee Company, Limited, administrator, assignor of one-tenth to W. C. Perkins, Niagara Falls, one-tenth to F. M. Williams, Albany, and one-tenth to P. P. Petz, Lewiston, N. Y. Conveyer. No. 1,004,997; Oct. 3; Sp. p. 942; Gaz. vol. 171; p. 157.
Crawford, Arthur B., Hastings, Nebr. Cistern or tank. No. 986,143; Mar. 7; Sp. p. 803; Gaz. vol. 164; p. 130.
Crawford, Charley S., Winterset, Iowa. Cuspidor and the like. No. 1,008,958; Nov. 14; Sp. p. 2964; Gaz. vol. 172; p. 495.
Crawford, David F., Pittsburg, Pa. Transfer mechanism. No. 1,000,585; Aug. 15; Sp. p. 2954; Gaz. vol. 169; p. 541.
Crawford, Edgar J., Seattle, Wash. Flying-machine. No. 1,005,941; Oct. 17; Sp. p. 3022; Gaz. vol. 171; p. 544.
Crawford, Edward M., Corozal, Panama. Spray-brush. No. 998,874; July 25; Sp. p. 4988; Gaz. vol. 168; p. 895.
Crawford-Frost, William A., Baltimore, Md. Aeroplane. No. 1,004,378; Sept. 26; Sp. p. 4824; Gaz. vol. 170; p. 851.
Crawford-Frost, William A., Baltimore, Md. Combined lift, chair, and wood-box. No. 1,005,608; Oct. 10; Sp. p. 2293; Gaz. vol. 171; p. 394.
Crawford-Frost, William A., Baltimore, Md. Combined aeroplane and parachute. No. 1,005,609; Oct. 10; Sp. p. 2294; Gaz. vol. 171; p. 395.
Crawford, George, Hoquiam, Wash. Coaster-brake. No. 992,340; May 16; Sp. p. 3266; Gaz. vol. 166; p. 589.
Crawford, George E. (See Hoyt, Walter B., assignor.)
Crawford, George W. (See Haag, Jacob W., assignor.)
Crawford, George W., Jr., Morgantown, Ind. Wire-retainer and insulator-guard. No. 980,495; Jan. 3; Sp. p. 694; Gaz. vol. 162; p. 112.
Crawford, Guy H., and G. H. Sauer, Denver, Colo., assignors to The Crawford-Sauer Spring Tire Company. Spring-wheel. No. 986,549; Mar. 14; Sp. p. 1688; Gaz. vol. 164; p. 299.
Crawford, James B., and J. R. Milliken, Sioux City, Iowa. Tire. No. 990,848; May 2; Sp. p. 45; Gaz. vol. 166; p. 10.
Crawford, James B., and J. R. Milliken, Sioux City, Iowa. Metallic tire. No. 1,005,607; Oct. 10; Sp. p. 2291; Gaz. vol. 171; p. 394.
Crawford, James E., and B. P. Hardy, Silverton, Tex. Rail tie and fastener. No. 988,627; Apr. 4; Sp. p. 731; Gaz. vol. 165; p. 116.
Crawford, John L., Mount Pleasant, Pa. Gas-burner. No. 1,007,538; Oct. 31; Sp. p. 6562; Gaz. vol. 171; p. 1186.
Crawford-Sauer Spring Tire Company, The. (See Crawford and Sauer, assignors.)
Crawford, Thomas, Jr. (See Cook, Judson, assignor.)
Crawford, William F., Colorado, Tex. Vermin-exterminator for poultry. No. 987,433; Mar. 21; Sp. p. 3533; Gaz. vol. 164; p. 631.
Crawford, William G., New York, N. Y., assignor to National Specialty Company, Washington, D. C. Shutter-worker. No. 984,196; Feb. 14; Sp. p. 2028; Gaz. vol. 163; p. 349.
Crawford, Wilmer H., Cincinnati, Ohio. Valve. No. 998,676; July 25; Sp. p. 4521; Gaz. vol. 168; p. 824.
Crawford, Wirt H. (See Harris, Robert, assignor.)
Crea, Hugh, *et al.* (See Beall, John, assignor.)
Creager, Clayton, Thurmont, Md. Mail-transferring device. No. 1,005,610; Oct. 10; Sp. p. 2296; Gaz. vol. 171; p. 395.
Creaghead Engineering Company, The. (See De Forest, Cornelius W., assignor.)
Creahan, Michael F., Pittsburgh, Pa. Boring-tool for shoe heels and soles. No. 1,008,699; Nov. 14; Sp. p. 2425; Gaz. vol. 172; p. 409.
Creak, Thomas M. (See Collinge, Joseph, assignor.)
Cream Cone Machine Company. (See Pierce, Simeon F., assignor.)
Creamery Package Manufacturing Company. (See Valerius, Theodore L., assignor.)
Crease, Walter E., East Greenwich, R. I. Buffing-hood. No. 1,007,272; Oct. 31; Sp. p. 5995; Gaz. vol. 171; p. 1094.
Creasey, Samuel E., Alfred, Me. Tobacco-smoking pipe. No. 1,005,104; Oct. 3; Sp. p. 1135; Gaz. vol. 171; p. 192.
Creasey, Samuel E., Alfred, Me. Imitation-fur rug. No. 1,009,480; Nov. 21; Sp. p. 4155; Gaz. vol. 172; p. 716.
Creasey, Samuel E., Alfred, Me. Camping accessory. No. 1,011,585; Dec. 12; Sp. p. 2702; Gaz. vol. 173; p. 453.
Creassey, Frank, Nottingham, England. Lace-machine carriage. No. 998,470; July 18; Sp. p. 4067; Gaz. vol. 168; p. 721.
Crecelius, Louis J., assignor of one-half to C. A. Thompson and one-half to E. C. Janssen, St. Louis, Mo. Bottle-grinding device. No. 989,124; Apr. 11; Sp. p. 1746; Gaz. vol. 165; p. 304.
Crecelius, Louis J., assignor of one-half to E. C. Janssen, St. Louis, Mo. Device for sealing bottles. No. 990,529; Apr. 25; Sp. p. 4869; Gaz. vol. 165; p. 849.
Crecelius, Louis J., assignor to Miller Manufacturing Company, St. Louis, Mo. Bottle-cabinet. No. 1,004,998; Oct. 3; Sp. p. 945; Gaz. vol. 171; p. 157.
Créchriou, Yves M., New Monterey, Cal. Pool and billiard table stretcher. No. 1,003,880; Sept. 19; Sp. p. 3669; Gaz. vol. 170; p. 652.
Cree, William D., and H. F. Davis, St. Louis, Mo. Communion-service. No. 982,351; Jan. 24; Sp. p. 4811; Gaz. vol. 162; p. 833.
Creech, Samuel E. (See Rogers and Creech.)
Creecy, David R., *et al.* (See Allard, Andrew J., assignor.)
Creed, Frederick G., assignor of one-third to W. A. Coulson, Glasgow, Scotland. Printing apparatus controlled by perforated tape. No. 985,402; Feb. 28; Sp. p. 4631; Gaz. vol. 163; p. 830.
Creedon, John J., Moline, Ill. Hame-tug clip. No. 994,979; June 13; Sp. p. 1951; Gaz. vol. 167; p. 342.
Creese, Henry, London, England. Electric clock and like instrument. No. 990,342; Apr. 25; Sp. p. 4422; Gaz. vol. 165; p. 782.
Creger, Alvin L., Des Moines, Iowa. Fastening. No. 982,799; Jan. 31; Sp. p. 5754; Gaz. vol. 162; p. 1014.
Crehore, Albert C., Yonkers, N. Y. Transmitting apparatus for telegraph systems. No. 1,010,413; Dec. 5; Sp. p. 15; Gaz. vol. 173; p. 5.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 982,224; Jan. 17; Sp. p. 4522; Gaz. vol. 162; p. 759.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 989,487; Apr. 11; Sp. p. 2518; Gaz. vol. 165; p. 426.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 991,483; May 9; Sp. p. 1398; Gaz. vol. 166; p. 264.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 992,744; May 16; Sp. p. 4088; Gaz. vol. 166; p. 730.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Electrolytic lightning-arrester. No. 993,961; May 30; Sp. p. 6700; Gaz. vol. 166; p. 1205.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,004,530; Sept. 26; Sp. p. 5126; Gaz. vol. 170; p. 902.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 1,004,531; Sept. 26; Sp. p. 5131; Gaz. vol. 170; p. 903.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Liquid-electrode arrester. No. 1,004,532; Sept. 26; Sp. p. 5132; Gaz. vol. 170; p. 903.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Electrolytic lightning-arrester. No. 1,004,533; Sept. 26; Sp. p. 5134; Gaz. vol. 170; p. 904.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Liquid-electrode lightning-arrester for multiphase low-voltage circuits. No. 1,004,534; Sept. 26; Sp. p. 5136; Gaz. vol. 170; p. 904.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 1,004,535; Sept. 26; Sp. p. 5138; Gaz. vol. 170; p. 904.
Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Electrolytic lightning-arrester with gap and blow-out. No. 1,004,536; Sept. 26; Sp. p. 5140; Gaz. vol. 170; p. 905.
Creighton, John M., Lancaster, Ohio. Bottle-stopper. No. 983,211; Jan. 31; Sp. p. 6624; Gaz. vol. 162; p. 1152.
Crell, Otto, Dusseldorf, assignor to A. Ehrenreich & Cie., Dusseldorf-Oberkassel, Germany. Multiple turret-lathe. No. 999,435; Aug. 1; Sp. p. 480; Gaz. vol. 169; p. 84.
Crelman, David, Chicago, Ill. Indicator. No. 986,046; Mar. 7; Sp. p. 622; Gaz. vol. 164; p. 100.
Cremans, Joseph T., Whitefish, Mont. Car-replacer. No. 991,958; May 9; Sp. p. 2402; Gaz. vol. 166; p. 427.
Crenshaw, Alonza C., Augusta, Ga. Combined ventilator and dust-arrester. No. 986,144; Mar. 7; Sp. p. 804; Gaz. vol. 164; p. 130.
Crenshaw, John C., Riverton, Ala. Excavating-bucket. No. 1,000,325; Aug. 8; Sp. p. 2341; Gaz. vol. 169; p. 414.
Crepar, Thomas M., Dilworth, Minn. Airship. No. 1,000,897; Aug. 15; Sp. p. 3613; Gaz. vol. 169; p. 649.
Cresca Company. (See Reiss, Sally, assignor.)
Crescent Machine Company, The. (See Wilderson, Clinton G., assignor.)
Crescy, Richard L., Chicago, Ill. Ventilator. No. 987,434; Mar. 21; Sp. p. 3535; Gaz. vol. 164; p. 632.
Cress, Charles F., Frankfort, Ind. Vending-machine. No. 992,113; May 9; Sp. p. 2703; Gaz. vol. 166; p. 478.
Cress, Leonidas H., West Newton, assignor to Federal Tool Company, Everett, Mass. Safety-razor. No. 996,837; July 4; Sp. p. 483; Gaz. vol. 168; p. 80.
Cresswell, Milton B., Des Moines, Iowa. Water-purifier and oil-separator. No. 990,959; May 2; Sp. p. 283; Gaz. vol. 166; p. 49.
Creter, Albert C. (See Lane and Creter.)
Creveling, John L., New York, N. Y. Wave-detector. No. 1,004,748; Oct. 3; Sp. p. 434; Gaz. vol. 171; p. 72.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 982,800; Jan. 31; Sp. p. 5755; Gaz. vol. 162; p. 1014.

Alphabetical list of patentees—Continued.

Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,004,379; Sept. 26; Sp. p. 4827; Gaz. vol. 170; p. 852.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,007,186; Oct. 31; Sp. p. 5825; Gaz. vol. 171; p. 1063.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,008,243; Nov. 7; Sp. p. 1285; Gaz. vol. 172; p. 210.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,008,244; Nov. 7; Sp. p. 1287; Gaz. vol. 172; p. 210.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,008,294; Nov. 7; Sp. p. 1406; Gaz. vol. 172; p. 228.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric distribution. No. 1,009,831; Nov. 28; Sp. p. 4871; Gaz. vol. 172; p. 879.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,010,025; Nov. 28; Sp. p. 5271; Gaz. vol. 172; p. 944.
Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,011,165; Dec. 12; Sp. p. 1725; Gaz. vol. 173; p. 302.
Crew, John F. (See Robbins and Crew.)
Crews, David B., Effingham, Ill. Stock-car partition-gate. No. 1,012,126; Dec. 19; Sp. p. 3903; Gaz. vol. 173; p. 675.
Cribbins, Frank P., Derby, Conn. Machine for homogenizing milk. No. 996,704; July 4; Sp. p. 218; Gaz. vol. 168; p. 37.
Criest, Frank, Butler, Pa. Trolley. No. 1,003,881; Sept. 19; Sp. p. 3671; Gaz. vol. 170; p. 653.
Criggal, John E., Wolverhampton, England, assignor to The Providence Gas Burner Company, Providence, R. I. Apparatus for making electric-lamp bases. No. 1,011,586; Dec. 12; Sp. p. 2704; Gaz. vol. 173; p. 453.
Crilley, Walter H., Smithton, Pa. Nut-removing device. No. 999,702; Aug. 1; Sp. p. 991; Gaz. vol. 169; p. 173.
Crilley, Walter H., Smithton, Pa. Metallic tie and rail-fastener. No. 1,012,330; Dec. 19; Sp. p. 4342; Gaz. vol. 173; p. 744.
Crilly, Daniel O., Chicago, Ill. Anchor for building constructions. No. 1,008,118; Nov. 7; Sp. p. 1012; Gaz. vol. 172; p. 164.
Crim, Henry F., *et al.* (See Loy, William C., assignor.)
Criner, Harry J., Burlington, Iowa. Exhaust-valve regulator. No. 998,327; July 18; Sp. p. 3782; Gaz. vol. 168; p. 672.
Crippen, Herbert O., Sanford, Fla. Dust-proof collapsible wardrobe for berths. No. 1,003,710; Sept. 19; Sp. p. 3332; Gaz. vol. 170; p. 596.
Crisfield, James A. P., assignor to The United Gas Improvement Company, Philadelphia, Pa. Apparatus for determining water in coke, &c. No. 982,765; Jan. 24; Sp. p. 5678; Gaz. vol. 162; p. 973.
Crisman, Alonzo M., Davenport, Iowa. Adjustable seed-cell for planters. No. 991,279; May 2; Sp. p. 969; Gaz. vol. 166; p. 163.
Crisman, Alonzo M., Davenport, Iowa. Automatic planter and check-rower. No. 995,225; June 13; Sp. p. 2440; Gaz. vol. 167; p. 422.
Crisman, Alonzo M., Davenport, Iowa. Variable change-gear for planters. No. 995,226; June 13; Sp. p. 2447; Gaz. vol. 167; p. 423.
Crisp, Charles, London, England. Type-writing and similar machine. No. 1,006,065; Oct. 17; Sp. p. 3273; Gaz. vol. 171; p. 586.
Crispin, Franklin M., assignor of one-half to J. W. Hamer, Beverly, N. J. Automobile-tire. No. 1,009,284; Nov. 21; Sp. p. 3711; Gaz. vol. 172; p. 646.
Criss, Hudson H., Globe, Ariz. Roof-framing square. No. 1,007,539; Oct. 31; Sp. p. 6563; Gaz. vol. 171; p. 1186.
Crist, William E., assignor to O. M. Edwards, Syracuse, N. Y. Gate-valve. No. 1,005,165; Oct. 10; Sp. p. 1267; Gaz. vol. 171; p. 236.
Crist, William H. (See Burbee and Crist.)
Criswell, Harry G. (See Wright and Criswell.)
Criswell, James A. E., New York, N. Y. Match. No. 988,246; Mar. 28; Sp. p. 5278; Gaz. vol. 164; p. 936.
Criswell, James A. E., New York, N. Y. Manufacture of matches. No. 988,247; Mar. 28; Sp. p. 5280; Gaz. vol. 164; p. 937.
Criswell, James A. E., New York, N. Y. Match. No. 988,248; Mar. 28; Sp. p. 5286; Gaz. vol. 164; p. 937.
Criswell, James A. E., New York, N. Y. Match. No. 988,249; Mar. 28; Sp. p. 5287; Gaz. vol. 164; p. 937.
Criswell, James A. E., New York, N. Y. Match. No. 988,250; Mar. 28; Sp. p. 5289; Gaz. vol. 164; p. 937.
Criswell, James A. E., New York, N. Y. Match. No. 988,251; Mar. 28; Sp. p. 5289; Gaz. vol. 164; p. 937.
Criswell, James A. E., New York, N. Y. Manufacture of matches. No. 988,252; Mar. 28; Sp. p. 5290; Gaz. vol. 164; p. 937.
Criswell, James A. E., New York, N. Y. Manufacture of matches. No. 988,253; Mar. 28; Sp. p. 5292; Gaz. vol. 164; p. 937.
Criswell, James A. E., New York, N. Y. Making matches. No. 988,254; Mar. 28; Sp. p. 5297; Gaz. vol. 164; p. 938.
Crittall, Francis H., Braintree, England. Blank for making metallic window sashes and frames. No. 1,002,228; Sept. 5; Sp. p. 80; Gaz. vol. 170; p. 9.
Crittenden, Orlando, Ashland, Ohio. Veterinary instrument. No. 1,008,917; Nov. 7; Sp. p. 802; Gaz. vol. 172; p. 128.
Croasdale, Edgar. (See Groat, Croasdale, and Tolhurst.)
Crochet, Henry L. J., assignor to Société Anonyme des Manufactures de Glaces et Produits Chimiques de Saint Gobain, Chauny et Circy, Paris, France. Glass paving-block for the construction of luminous floors of reinforced concrete. No. 1,005,611; Oct. 10; Sp. p. 2299; Gaz. vol. 171; p. 396.
Crocker, Albert H., Chicago, Ill. Electrical ignition apparatus. No. 990,960; May 2; Sp. p. 286; Gaz. vol. 166; p. 49.
Crocker, Clarence T., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Brush-holder support. No. 996,218; June 27; Sp. p. 4651; Gaz. vol. 167; p. 830.
Crocker, Ernest B. (See Blanchard and Crocker.)
Crocker, Francis B., New York, N. Y. Apparatus for automatic regulation of rectifiers and rotary converters. No. 1,012,524; Dec. 19; Sp. p. 4704; Gaz. vol. 173; p. 808.
Crocker, George M., Brockton, Mass. Combined board and cutter. No. 992,755; May 23; Sp. p. 4120; Gaz. vol. 166; p. 762.
Crocker, James, Birmingham, Ala., assignor of five forty-eighths to J. H. Stewart, Washington, D. C., one hundred and ninety-nine eight-hundredths to W. H. Perryman, one ninety-eighth to J. R. Chambers, one eight-hundredth to W. McBride, Adamsville, Ala., one-twelfth to C. Bruce, one one-hundred-and-ninety-sixth to R. Oliver, one one-hundred-and-ninety-sixth to I. H. Garth, and one forty-eighth to M. Willingham. Air-compressor. No. 990,231; Apr. 25; Sp. p. 4159; Gaz. vol. 165; p. 744.
Crocker, James R., assignor to McDonald Electrolytic Company, New York, N. Y. Electrolytic cell. No. 982,037; Jan. 17; Sp. p. 4166; Gaz. vol. 162; p. 695.
Crocker, John M., and F. Tappan, Coldwater, Mich. Cement-block construction. No. 1,011,753; Dec. 12; Sp. p. 3044; Gaz. vol. 173; p. 509.
Crocker, Ray S., Wellington, Ohio. Game. No. 998,233; July 18; Sp. p. 3549; Gaz. vol. 168; p. 636.
Crocker, Samuel H., London, England. Treating wood for pencils. No. 997,275; July 11; Sp. p. 1427; Gaz. vol. 168; p. 263.
Crocker-Wheeler Company. (See Dunn, Gano, assignor.)
Crocker-Wheeler Company. (See Smith and Knoener, assignors.)
Crocker-Wheeler Company. (See Young, Frederick W., assignor.)
Crockett, David, Birmingham, Ala. Compound for forming paving. No. 984,543; Feb. 21; Sp. p. 2813; Gaz. vol. 163; p. 502.
Crockett, David, Birmingham, Ala. Tricycle. No. 997,439; July 11; Sp. p. 1747; Gaz. vol. 168; p. 317.
Crockett, David, Birmingham, Ala. Propeller. No. 1,005,812; Oct. 17; Sp. p. 2715; Gaz. vol. 171; p. 496.
Crockett, Lewis W., *et al.* (See Todd, Charles W., assignor.)
Crockett, William P., *et al.* (See Eck, Ragnvald, assignor.)
Crockford, Frank K., Bristol, R. I. Feed-trough. No. 980,496; Jan. 3; Sp. p. 694; Gaz. vol. 162; p. 112.
Crofford, Charles B., assignor of one-half to C. Nelson, Memphis, Tenn. Tea and coffee maker. No. 1,000,326; Aug. 8; Sp. p. 2343; Gaz. vol. 169; p. 415.
Croft, Robert, assignor of one-fourth to R. Croft, Jr., one-fourth to L. Young, and one-fourth to C. H. Kraft, Salt Lake City, Utah. Railway-tie. No. 983,690; Feb. 7; Sp. p. 943; Gaz. vol. 163; p. 149.
Crogan, Charles W., Bangor, Me. Photograph-album. No. 986,965; Mar. 14; Sp. p. 2548; Gaz. vol. 164; p. 441.
Crolbois, Joseph J. A., Paris, France. Making cattle food. No. 1,001,253; Aug. 22; Sp. p. 4416; Gaz. vol. 169; p. 802.
Crombie, Florence L., Detroit, Mich. Electrically-heated tray. No. 1,005,166; Oct. 10; Sp. p. 1269; Gaz. vol. 171; p. 236.
Cromley, John M., Lewisburg, Pa. Ventilator. No. 1,011,587; Dec. 12; Sp. p. 2766; Gaz. vol. 173; p. 453.
Crompton and Company. (See Macfarlane and Burge, assignors.)
Crompton Company. (See Morton, Arthur, assignor.)
Crompton, Frank E. (See Woodward and Crompton.)

Alphabetical list of patentees—Continued.

Crompton & Knowles Loom Works. (See Chevrette, Augustin J., assignor.)
Crompton & Knowles Loom Works. (See Clark, John A., assignor.)
Crompton & Knowles Loom Works. (See Cloutier, John B., assignor.)
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crompton & Knowles Loom Works. (See Kelmel, Albert E., assignor.)
Crompton & Knowles Loom Works. (See McGuiness, Benjamin F., assignor.)
Crompton & Knowles Loom Works. (See Regan, John, assignor.)
Crompton & Knowles Loom Works. (See Smith, Harry W., assignor.)
Crompton & Knowles Loom Works. (See Soderberg, John G., assignor.)
Crompton & Knowles Loom Works. (See Taylor, Charles E., assignor.)
Crompton & Knowles Loom Works. (See Wattie, William, assignor.)
Crompton & Knowles Loom Works. (See Wyman, Clark, and Soderberg, assignors.)
Crompton, Luddie. (See Rich, Sion D., assignor.)
Cromwell, John C., Cleveland, assignor to The Alliance Machine Company, Alliance, Ohio. Stirrer for gas-producers. No. 1,001,509; Aug. 22; Sp. p. 4925; Gaz. vol. 169; p. 890.
Cromwell, John C., assignor of one-half to The Garrett-Cromwell Engineering Company, Cleveland, and one-half to J. W. Seaver, Cleveland Heights Village, Ohio. Reversing-valve and operating mechanism therefor. No. 1,002,968; Sept. 12; Sp. p. 1755; Gaz. vol. 170; p. 304.
Crone, Francis G. (See Baldwin, Dayton A., assignor.)
Crone, Seth A., East Orange, N. J., Railway brake-beam. No. 981,619; Jan. 17; Sp. p. 3246; Gaz. vol. 162; p. 551.
Crone, Seth A., East Orange, N. J. Railway brake-beam. No. 981,620; Jan. 17; Sp. p. 3249; Gaz. vol. 162; p. 552.
Crone, Seth A., East Orange, N. J. Railway brake-beam. No. 1,007,273; Oct. 31; Sp. p. 5996; Gaz. vol. 171; p. 1094.
Cronemiller, Frederick, Superior, Wis. Car-door. No. 994,062; May 30; Sp. p. 6905; Gaz. vol. 166; p. 1240.
Cronenwett, Elmer, and F. A. Smith, Galion, Ohio. Dumping-wagon. No. 990,849; May 2; Sp. p. 47; Gaz. vol. 166; p. 11.
Croney, Benjamin F. (See Allen and Croney.)
Cronin, John. (See Mackeral and Cronin.)
Cronk, William, Montour Falls, N. Y. Handle for pruning-shears and the like. No. 999,703; Aug. 1; Sp. p. 992; Gaz. vol. 169; p. 173.
Cronkhite, Roy K., assignor of one-half to M. M. McGrath, Detroit, Mich. Steel-belt fastener. No. 1,012,061; Dec. 19; Sp. p. 3746; Gaz. vol. 173; p. 651.
Cronwall, Carl G., Chicago, Ill. Broiler. No. 1,010,026; Nov. 28; Sp. p. 5273; Gaz. vol. 172; p. 945.
Crook, Alfred I., assignor to The Philadelphia Roll and Machine Company, Philadelphia, Pa. Apparatus for forming chilled pass-rolls. No. 990,710; Apr. 25; Sp. p. 5272; Gaz. vol. 165; p. 910.
Crook, Mary C., Falls City, Nebr. Artificial Christmas tree. No. 994,248; June 6; Sp. p. 303; Gaz. vol. 167; p. 52.
Crook, William H., Ansonia, assignor to The Birmingham Iron Foundry, Derby, Conn. Machine for forming automobile tire-treads. No. 981,981; Jan. 17; Sp. p. 4057; Gaz. vol. 162; p. 676.
Crooker, William W., Everett, assignor of one-half to H. C. Little, West Newton, Mass. Repairing cracks in patent-leather. No. 994,503; June 6; Sp. p. 827; Gaz. vol. 167; p. 139.
Crooker, William W., Everett, assignor of one-half to H. C. Little, West Newton, Mass. Buffing-wheel. No. 994,504; June 6; Sp. p. 828; Gaz. vol. 167; p. 139.
Crooker, William W., Everett, assignor to H. C. Little, West Newton, Mass. Repairing cracks in patent-leather. No. 1,004,537; Sept. 26; Sp. p. 5141; Gaz. vol. 170; p. 905.
Crooks, Frank H., Anderson, Ind. Lubricator. No. 1,004,853; Oct. 3; Sp. p. 664; Gaz. vol. 171; p. 108.
Crooks, James W., Mount Vernon, N. Y. Accenting device for pneumatic-piano-player actions. No. 1,000,377; Aug. 15; Sp. p. 2485; Gaz. vol. 169; p. 464.
Crookshank, George E., assignor of one-third to K. Crookshank and one-third to E. I. Engle, Indiana, Pa. Valve. No. 986,694; Mar. 14; Sp. p. 1988; Gaz. vol. 164; p. 349.
Crookshank, Kate, *et al.* (See Crookshank, George E., assignor.)
Croom, Robert F., executor. (See Robinson, Julius G., assignor.)
Crosby, Oliver, assignor to American Hoist & Derrick Co., St. Paul, Minn. Friction brake mechanism. No. 988,314; Apr. 4; Sp. p. 36; Gaz. vol. 165; p. 9.
Crosby, Thomas E., Boston, Mass. Bath-trap. No. 1,011,035; Dec. 5; Sp. p. 1385; Gaz. vol. 173; p. 221.
Crosier, John H., Philadelphia, assignor of six-tenths to G. N. Powell, Pittsburg, Pa. Safety apparatus for amusement or other auditoriums. No. 1,000,154; Aug. 8; Sp. p. 1986; Gaz. vol. 169; p. 356.
Crosier, John H., Philadelphia, assignor of three-fifths to G. N. Powell, Pittsburg, Pa. Lamp for motion-picture machines. No. 1,000,964; Aug. 15; Sp. p. 3758; Gaz. vol. 169; p. 671.
Cross, Albert N., Tomah, Wis. Scoop. No. 990,232; Apr. 25; Sp. p. 4161; Gaz. vol. 165; p. 744.
Cross, Anson K., Winthrop, Mass. Purifying air. No. 996,705; July 4; Sp. p. 220; Gaz. vol. 168; p. 38.
Cross, Francis E., New London, Conn. Broom-holder. No. 1,002,566; Sept. 5; Sp. p. 865; Gaz. vol. 170; p. 127.
Cross, Frank L., Detroit, Mich. Governor for valves. No. 983,876; Feb. 14; Sp. p. 1354; Gaz. vol. 163; p. 243.
Cross, Frank L., Wollaston, Mass., assignor to Cross Paper Feeder Company. Paper-feeding machine. No. 982,255; Jan. 24; Sp. p. 4597; Gaz. vol. 162; p. 798.
Cross, Frank L., Wollaston, Mass., assignor to Cross Paper Feeder Company. Sheet-feeding machine. No. 982,256; Jan. 24; Sp. p. 4602; Gaz. vol. 162; p. 799.
Cross, Frederick L., Annapolis, Md., assignor of one-half to H. I. Geesey, Altoona, Pa. Trolley-pole. No. 981,535; Jan. 10; Sp. p. 3069; Gaz. vol. 162; p. 501.
Cross, George A., assignor of one-fourth to M. W. Cross, one-fourth to L. T. Cross, and one-fourth to J. A. Cross, Northfield, Vt. Stoneworking-table. No. 1,007,540; Oct. 31; Sp. p. 6565; Gaz. vol. 171; p. 1187.
Cross, George C., Chattanooga, Tenn. Tire-protector. No. 1,009,051; Nov. 21; Sp. p. 3176; Gaz. vol. 172; p. 563.
Cross, George W., Fort Smith, Ark., assignor to Cooney Construction Company, St. Louis, Mo. Form for molding reinforced-concrete conduits. No. 1,007,187; Oct. 31; Sp. p. 5826; Gaz. vol. 171; p. 1064.
Cross, Herbert, Philadelphia, Pa., assignor to Chambers Brothers Company. Automatic controlling mechanism. No. 1,012,990; Dec. 26; Sp. p. 5790; Gaz. vol. 173; p. 1013.
Cross, J. A., *et al.* (See Cross, George A., assignor.)
Cross, Joseph T., assignor to F. H. Howard, San Francisco, Cal. Wave and current motor. No. 986,802; Mar. 14; Sp. p. 2217; Gaz. vol. 164; p. 385.
Cross, L. T., *et al.* (See Cross, George A., assignor.)
Cross, M. W., *et al.* (See Cross, George A., assignor.)
Cross Paper Feeder Company. (See Cross, Frank L., assignor.)
Cross, William H., Dayton, Ohio. Lamp-bracket. No. 992,756; May 23; Sp. p. 4123; Gaz. vol. 166; p. 763.
Crosskill, Joseph G., Denver, Colo. Combined safety-catch or door-check. No. 990,114; Apr. 18; Sp. p. 3888; Gaz. vol. 165; p. 672.
Crossley, James S., assignor to Pass and Seymour, Inc., Solvay, N. Y. Electrical receptacle. No. 994,980; June 13; Sp. p. 1953; Gaz. vol. 167; p. 342.
Crossley, James S., assignor to Pass & Seymour, Inc., Solvay, N. Y. Incandescent-electric-lamp socket. No. 995,772; June 20; Sp. p. 3680; Gaz. vol. 167; p. 642.
Crossley, James S., assignor to Pass & Seymour, Inc., Solvay, N. Y. Attachment-plug. No. 996,620; July 4; Sp. p. 55; Gaz. vol. 168; p. 10.
Crossley, Thomas L., Westmount, Quebec, Canada. Circular core and disk cutting tool. No. 983,810; Feb. 7; Sp. p. 1174; Gaz. vol. 163; p. 189.
Crossley, William J., and T. Rigby, Manchester, England. Recovering acetic acid in producer-gas plants. No. 998,234; July 18; Sp. p. 3550; Gaz. vol. 168; p. 637.
Crossman, Robert W., assignor of one-half to J. E. Walker, Texola, Okla. Harrow. No. 985,980; Mar. 7; Sp. p. 488; Gaz. vol. 164; p. 78.
Croston, Henry, assignor to General Chemical Company, New York, N. Y. Electrolytic apparatus. No. 1,009,133; Nov. 21; Sp. p. 3344; Gaz. vol. 172; p. 591.
Croston, William J., Lawrence, assignor of sixty one-hundredths to W. H. Dwelly, Brookline, Mass. Scouring or cleaning wool. No. 1,006,726; Oct. 24; Sp. p. 4756; Gaz. vol. 171; p. 847.
Crotteau, Eli. (See Wendt, Fred H., assignor.)
Crotty, Joseph J. (See Bernesser and Crotty.)
Crouch, Charles N., Taylorsville, N. C. Car-wheel. No. 981,536; Jan. 10; Sp. p. 3071; Gaz. vol. 162; p. 501.
Crouch, Daniel E., Oakland, Cal. Chain-saw. No. 1,004,245; Sept. 26; Sp. p. 4565; Gaz. vol. 170; p. 807.
Crouch, Frank J., and H. E. Lloyd, Seattle, Wash. Elevator safety device. No. 990,343; Apr. 25; Sp. p. 4425; Gaz. vol. 165; p. 783.
Crouch, John P., Newton Heath, and J. Etchells, Moston, England. Train-lighting system. No. 1,001,358; Aug. 22; Sp. p. 4652; Gaz. vol. 169; p. 840.
Crouse, Jacob L. (See Madden and Crouse.)
Crouse, John L., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Commutator-brush. No. 1,010,118; Nov. 28; Sp. p. 5450; Gaz. vol. 172; p. 977.
Crow, Jesse J., El Paso county, Tex. Cotton-chopper. No. 987,435; Mar. 21; Sp. p. 3536; Gaz. vol. 164; p. 632.
Crow, Levi H. (See Crow, William M. and L. H.)
Crow, William M. and L. H., Wichita Falls, Tex.; said William M. Crow assignor to said L. H. Crow. Apparatus for destroying insects. No. 993,036; May 23; Sp. p. 4735; Gaz. vol. 166; p. 862.
Crowder, Albert B., St. Louis, Mo. Fusible link. No. 996,219; June 27; Sp. p. 4653; Gaz. vol. 167; p. 830.

Crowder, John R., and A. C. Sansbury, assignors of one-third to J. C. and E. G. Van Meter, Louisville, Ky. Folding crate. No. 1,008,700; Nov. 14; Sp. p. 2426; Gaz. vol. 172; p. 410.
Crowder, Sam A., Madill, Okla. Sprocket driving mechanism. No. 984,509; Feb. 14; Sp. p. 2709; Gaz. vol. 163; p. 455.
Crowe, John, assignor to Specialty Shoe Machinery & Tool Company, St. Joseph, Mo. Feeding device for shoe-nailing machines. No. 994,981; June 13; Sp. p. 1955; Gaz. vol. 167; p. 342.
Crowe, Michael V., Chicago, Ill. Door-bolt. No. 1,010,482; Dec. 5; Sp. p. 184; Gaz. vol. 173; p. 30.
Crowe, Paul L., Jersey City, N. J. Furnace-setting. No. 984,078; Feb. 14; Sp. p. 1805; Gaz. vol. 163; p. 310.
Crowe, Paul L., Jersey City, N. J. Furnace. No. 984,197; Feb. 14; Sp. p. 2029; Gaz. vol. 163; p. 349.
Crowe, Paul L., Jersey City, N. J. Stoker mechanism. No. 1,000,586; Aug. 15; Sp. p. 2956; Gaz. vol. 169; p. 541.
Crowe, Paul L., Jersey City, N. J. Furnace-stoker. No. 1,000,587; Aug. 15; Sp. p. 2958; Gaz. vol. 169; p. 541.
Crowe, Paul L., Jersey City, N. J. Speed-regulator releasing mechanism. No. 1,003,037; Sept. 12; Sp. p. 1892; Gaz. vol. 170; p. 326.
Crowe, Paul L., Jersey City, N. J., and A. Frankenheim, New York, N. Y.; said Frankenheim assignor to said Crowe. Stoker mechanism. No. 984,077; Feb. 14; Sp. p. 1801; Gaz. vol. 163; p. 309.
Crowe, Paul L., Jersey City, N. J., and A. Frankenheim, New York, N. Y.; said Frankenheim assignor to said Crowe. Speed-regulator for stokers. No. 1,003,036; Sept. 12; Sp. p. 1891; Gaz. vol. 170; p. 326.
Crowe, Robert E., and G. O. Prowse, Roswell, N. Mex. Ironing-board. No. 1,009,481; Nov. 21; Sp. p. 4156; Gaz. vol. 172; p. 716.
Crowe, Thomas B., Colorado Springs, Colo. Treating ores containing tellurids of gold. No. 987,964; Mar. 28; Sp. p. 4726; Gaz. vol. 164; p. 844.
Crowell, Charles A., Staunton, Va. Type-writer. No. 1,001,359; Aug. 22; Sp. p. 4658; Gaz. vol. 169; p. 841.
Crowell, G. C., *et al.* (See Hendrix, Cherry L., assignor.)
Crowley, E. C. (See Clark, Charles W., assignor.)
Crowley, Elmer B., Greenville, and E. J. Grant, Sandypoint, Me. Shingle-press. No. 997,649; July 11; Sp. p. 2199; Gaz. vol. 168; p. 389.
Crowley, Robert E., Galion, Ohio. Safety appliance for car-couplings. No. 981,067; Jan. 10; Sp. p. 2053; Gaz. vol. 162; p. 338.
Crowley, Robert E., Galion, Ohio. Safety appliance for car-couplings. No. 1,004,999; Oct. 3; Sp. p. 946; Gaz. vol. 171; p. 157.
Crowley, William, Philadelphia, Pa. Portable burglar-alarm. No. 1,009,285; Nov. 21; Sp. p. 3714; Gaz. vol. 172; p. 646.
Crown-Columbia Pulp & Paper Company. (See Morden, Charles W., assignor.)
Crown Cork & Seal Co., The. (See Carper, Albert A., assignor.)
Crown Cork and Seal Company of Baltimore City, The. (See Coale, Harvey, assignor.)
Crowner, James M., Ottumwa, Iowa. Gas-lighting device. No. 1,010,119; Nov. 28; Sp. p. 5451; Gaz. vol. 172; p. 977.
Croxton, Alvyn L., Bremerton, Wash. Internal-combustion pumping-engine. No. 996,565; June 27; Sp. p. 5405; Gaz. vol. 167; p. 946.
Crozier, Thomas W., Christiansburg, Va. Nut-lock. No. 992,709; May 16; Sp. p. 4014; Gaz. vol. 166; p. 716.
Cruikshank, James W., Pittsburg, Pa. Glass-teeming apparatus. No. 985,783; Mar. 7; Sp. p. 29; Gaz. vol. 164; p. 8.
Cruikshank, James W., Pittsburg, Pa. Stowing mechanism. No. 1,003,344; Sept. 12; Sp. p. 2537; Gaz. vol. 170; p. 437.
Cruikshank, John, Shamokin, assignor of one-third to J. M. Dunkelberger, Mount Carmel, Pa. Lamp-shade holder. (Reissue.) No. 13,322; Nov. 28; Sp. p. 6043; Gaz. vol. 172; p. 1070.
Crum, Clarence J., Ottawa, Kans. Composition. No. 995,227; June 13; Sp. p. 2450; Gaz. vol. 167; p. 424.
Crum, Laurence N. (See Giffin, John E., assignor.)
Crume, Albert. (See Wallace and Crume.)
Crume, Albert, assignor to The Brush Development Company, Brush, Colo. Beet-harvester. No. 1,001,360; Aug. 22; Sp. p. 4664; Gaz. vol. 169; p. 841.
Crump, Lloyd, Centralia, Mo. Rheostat. No. 1,008,701; Nov. 14; Sp. p. 2429; Gaz. vol. 172; p. 410.
Crumpton, Charles, deceased; J. Bennett, administrator, assignor of one-half to M. L. Bennett, Chicago, Ill. Folding screen. No. 990,516; Apr. 25; Sp. p. 4853; Gaz. vol. 165; p. 846.
Crumpton, William J., Superior, Wis. Electric switch. No. 1,010,620; Dec. 5; Sp. p. 492; Gaz. vol. 173; p. 77.
Crumrine, Benton V., Red Bluff, Cal. Clothes-washing machine. No. 1,003,988; Sept. 26; Sp. p. 3960; Gaz. vol. 170; p. 717.
Cruse, Amandus H., Brooklyn, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Matrix-drying press. No. 1,008,528; Nov. 14; Sp. p. 2034; Gaz. vol. 172; p. 348.
Cruver, Curtis L., Chicago, Ill. Toy. No. 1,002,969; Sept. 12; Sp. p. 1757; Gaz. vol. 170; p. 305.
Crystal Manufacturing and Patent Company. (See Harloe, Morton, assignor.)
Csisko, John, West Newton, Pa. Metallic tie and rail-fastener. No. 1,005,000; Oct. 3; Sp. p. 948; Gaz. vol. 171; p. 158.
Cubbage, William I., Joy, Ill. Shocking-machine. No. 986,803; Mar. 14; Sp. p. 2219; Gaz. vol. 164; p. 385.
Cubelic, Ludwig, Charlottenburg, Germany, assignor to General Electric Company. Mixed-pressure turbine. No. 1,000,783; Aug. 15; Sp. p. 3391; Gaz. vol. 169; p. 609.
Cubine, Burt T. (See Wheelock and Cubine.)
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Automatic flat-iron. No. 1,006,727; Oct. 24; Sp. p. 4757; Gaz. vol. 171; p. 847.
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Thermostat. No. 1,010,414; Dec. 5; Sp. p. 23; Gaz. vol. 173; p. 5.
Cubitt, Archibald S., Pittsfield, Mass., assignor to General Electric Company. Snap-switch. No. 1,011,754; Dec. 12; Sp. p. 3044; Gaz. vol. 173; p. 509.
Cuccurullo, Alessandro, Parma, Italy. Automatic pistol. No. 990,475; Apr. 25; Sp. p. 4727; Gaz. vol. 165; p. 831.
Cuddy, John T. (See Seymour, Daniel J., assignor.)
Cuddy, Louis J., assignor to The Moncrief Manufacturing Company, Pawtucket, R. I. Display-rack. No. 990,711; Apr. 25; Sp. p. 5274; Gaz. vol. 165; p. 910.
Cuddy, Thomas H., Sandford, Manitoba, assignor of one-half to M. J. Rodney, Winnipeg, Canada. Steering device for traction-engines. No. 1,007,541; Oct. 31; Sp. p. 6567; Gaz. vol. 171; p. 1187.
Cuff, William H., South Braintree, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,000,998; Aug. 22; Sp. p. 3884; Gaz. vol. 169; p. 718.
Culbertson, Charles M., Carpenter, Iowa. Attachment for vehicles. No. 996,749; July 4; Sp. p. 297; Gaz. vol. 168; p. 52.
Culbertson, Joseph M., Dubuque, Iowa. Means for correcting irregularities in band-saws. No. 1,001,580; Aug. 22; Sp. p. 5068; Gaz. vol. 169; p. 913.
Culbertson, William C., Rushville, Ind. Flying-machine. No. 1,002,138; Aug. 29; Sp. p. 6254; Gaz. vol. 169; p. 1131.
Cullen, Edward F., Weymouth, Mass., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo. Biscuit-box-display device. No. 985,729; Feb. 28; Sp. p. 5392; Gaz. vol. 163; p. 944.
Cullen, Lenileoti. (See Cullen, Milton H., assignor.)
Cullen, Milton H., assignor of one-half to L. Cullen, Chattanooga, Tenn. Electric switch. No. 1,012,525; Dec. 19; Sp. p. 4708; Gaz. vol. 173; p. 809.
Culley, Stuart Y., Covington, Ky. Electric regulator. No. 1,003,882; Sept. 19; Sp. p. 3672; Gaz. vol. 170; p. 653.
Cullman, Otto, Chicago, Ill. Automobile-heater. No. 1,009,052; Nov. 21; Sp. p. 3178; Gaz. vol. 172; p. 564.
Cullon, Alexander F. (See Menzies and Cullon.)
Cullon, Samuel A. (See Menzies and Cullon.)
Cullum, Horace W. (See Peters, Henry, assignor.)
Culmer, John W., New Brighton, Pa., assignor, by mesne assignments, to National Scale Company. Computing-scale. No. 999,722; Aug. 1; Sp. p. 1045; Gaz. vol. 169; p. 179.
Culp, Charles M., South Bend, Ind. Emergency-tire. No. 1,001,623; Aug. 29; Sp. p. 5169; Gaz. vol. 169; p. 958.
Culter & Proctor Stove Co. (See Genthner, Charles M., assignor.)
Culver, Andrew C., assignor to The Automatic Refrigerating Company, Hartford, Conn. Automatic water-regulator. No. 985,147; Feb. 28; Sp. p. 4081; Gaz. vol. 163; p. 744.
Culver, Frederick S., Taunton, Mass. Spinning and twisting machine. No. 983,607; Feb. 7; Sp. p. 762; Gaz. vol. 163; p. 119.
Culver, Frederick S., Taunton, Mass. Spinning-machine. No. 1,008,702; Nov. 14; Sp. p. 2430; Gaz. vol. 172; p. 410.
Culver, William P. (See Taylor, Arthur B., assignor.)
Cuming, James S., St. Louis, Mo. Electric-light fixture. No. 986,550; Mar. 14; Sp. p. 1689; Gaz. vol. 164; p. 299.
Cumley, John W., assignor of one-sixth to H. L. Jones, one-sixth to P. R. Manderville, Atchison, and one-sixth to F. W. Moore, Greenleaf, Kans. Check-valve. No. 988,175; Mar. 28; Sp. p. 5147; Gaz. vol. 164; p. 913.
Cummer, Frederick H., assignor to The F. D. Cummer & Son Company, Cleveland, Ohio. Drying apparatus. No. 1,009,225; Nov. 21; Sp. p. 3581; Gaz. vol. 172; p. 625.
Cummer, William L., Hamilton, Ontario, Canada. Clothes-drier. No. 986,804; Mar. 14; Sp. p. 2223; Gaz. vol. 164; p. 386.
Cummer, William L., Hamilton, Ontario, Canada. Operating means for washing-machines. No. 986,805; Mar. 14; Sp. p. 2225; Gaz. vol. 164; p. 386.
Cumming, William S., Chicago, Ill., assignor to W. N. Davis, Kansas City, Mo. Door-operating mechanism. No. 1,000,784; Aug. 15; Sp. p. 3393; Gaz. vol. 169; p. 610.
Cummings, Clarence A., Fresno, Cal. Balanced valve. No. 1,000,588; Aug. 15; Sp. p. 2959; Gaz. vol. 169; p. 542.

Alphabetical list of patentees—Continued.

Cummings, Daniel J., New Haven, Conn. Adjustable step-ladder. No. 984,544; Feb. 21; Sp. p. 2813; Gaz. vol. 163; p. 502.
Cummings, Edwin B., Indianapolis, Ind. Voting-machine. No. 1,001,732; Aug. 29; Sp. p. 5399; Gaz. vol. 169; p. 996.
Cummings, Edwin B., Indianapolis, Ind. Voting-machine. No. 1,010,596; Dec. 5; Sp. p. 432; Gaz. vol. 173; p. 69.
Cummings, Ferdnand T., Orlando, Fla. Kettle. No. 989,125; Apr. 11; Sp. p. 1748; Gaz. vol. 165; p. 304.
Cummings, Frank H., *et al.* (See Kingsley, Candide, assignor.)
Cummings, George C., Western Springs, Ill. Telephony. No. 997,756; July 11; Sp. p. 2450; Gaz. vol. 168; p. 427.
Cummings, George C., Western Springs, and A. Wray, Chicago, Ill. Transmission system. No. 1,000,077; Aug. 8; Sp. p. 1800; Gaz. vol. 169; p. 330.
Cummings, George C., and J. A. Kick, Western Springs, Ill. System for transmitting intelligence. No. 1,000,078; Aug. 8; Sp. p. 1820; Gaz. vol. 169; p. 331.
Cummings, Henry H. (See Marston and Cummings.) (Reissue.)
Cummings, Henry H., Newton, Mass. Air-screen. No. 983,877; Feb. 14; Sp. p. 1356; Gaz. vol. 163; p. 244.
Cummings, Henry H., Newton, Mass. Shoe-lacing. No. 995,440; June 20; Sp. p. 2933; Gaz. vol. 167; p. 524.
Cummings, Henry H., Newton, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Loose nailer. No. 996,065; June 27; Sp. p. 4288; Gaz. vol. 167; p. 778.
Cummings, Irving W., Beaver Creek, Minn. Delivery apparatus. No. 998,875; July 25; Sp. p. 4990; Gaz. vol. 168; p. 896.
Cummings, James M., assignor of one-half to W. M. Hahn, Evansville, Ind. Fuse attachment for electric lights. No. 1,008,629; Nov. 14; Sp. p. 2268; Gaz. vol. 172; p. 386.
Cummings, John F., Providence, R. I. Moistening device. No. 982,939; Jan. 31; Sp. p. 6079; Gaz. vol. 162; p. 1061.
Cummings, John F., Providence, R. I. Postage-stamp-affixing machine. No. 986,047; Mar. 7; Sp. p. 626; Gaz. vol. 164; p. 100.
Cummings, John F., assignor to The John F. Cummings Manufacturing Company, Providence, R. I. Stamp-affixing machine. No. 1,004,150; Sept. 26; Sp. p. 4370; Gaz. vol. 170; p. 775.
Cummings, Robert A. (See Metzger, Fritz L., assignor.)
Cummings, Thaddeus L., Spencer, Iowa. Wing-carrier. No. 984,353; Feb. 14; Sp. p. 2382; Gaz. vol. 163; p. 403.
Cummings, Thomas G. (See Little and Cummings.)
Cummings, Willard H., assignor to The Clason Architectural Metal Works, Providence, R. I. Ventilator. No. 985,148; Feb. 28; Sp. p. 4084; Gaz. vol. 163; p. 745.
Cummins, Arthur E., London, England. Baling-press. No. 992,171; May 16; Sp. p. 2848; Gaz. vol. 166; p. 530.
Cummins, Arthur W. (See Hutchison, Maurice F., assignor.)
Cundall, Constant T., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Web-folding machine. No. 1,000,670; Aug. 15; Sp. p. 3147; Gaz. vol. 169; p. 570.
Cunniff, Edward, New Bedford, assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 991,484; May 9; Sp. p. 1401; Gaz. vol. 166; p. 264.
Cunningham, Edward J., Canton, Mass. Loose pulley. No. 1,007,071; Oct. 31; Sp. p. 5545; Gaz. vol. 171; p. 1020.
Cunningham, Edward R., assignor of one-third to E. B. Beighler and one-third to F. C. Tate, Des Moines, Iowa. Signal-contact. No. 1,005,418; Oct. 10; Sp. p. 1838; Gaz. vol. 171; p. 327.
Cunningham, Frank R., Medford, Mass., assignor to Kendrick & Davis, Lebanon, N. H. Poising-calipers. No. 984,354; Feb. 14; Sp. p. 2385; Gaz. vol. 163; p. 403.
Cunningham, Frank R., Medford, Mass., assignor, by mesne assignments, to Kendrick and Davis Company, Lebanon, N. H. Mainspring-winder. No. 986,695; Mar. 14; Sp. p. 1990; Gaz. vol. 164; p. 350.
Cunningham, Frank R., Medford, Mass., assignor, by mesne assignments, to Kendrick and Davis Company, Lebanon, N. H. Tweezers. No. 1,008,018; Nov. 7; Sp. p. 804; Gaz. vol. 172; p. 128.
Cunningham, Frank R., Medford, Mass., assignor to Kendrick and Davis Company, Lebanon, N. H. Headlight-adjuster. No. 1,009,385; Nov. 21; Sp. p. 3950; Gaz. vol. 172; p. 683.
Cunningham, George T., Shreveport, La. Rotary engine. No. 1,009,482; Nov. 21; Sp. p. 4157; Gaz. vol. 172; p. 716.
Cunningham, John D., Marietta, Ga., assignor, by mesne assignments, to The Blizzard Pre-Cooler Company. Car-cooling device. No. 1,008,703; Nov. 14; Sp. p. 2432; Gaz. vol. 172; p. 411.
Cunningham, Louis, New London, Conn. Detachable watch-pocket. No. 1,003,711; Sept. 19; Sp. p. 3334; Gaz. vol. 170; p. 597.
Cunningham, Melville B., Fort Worth, Tex. Ventilating device. No. 985,730; Feb. 28; Sp. p. 5394; Gaz. vol. 163; p. 945.
Cunningham, Richard H., New York, N. Y. Magneto-dynamo armature. No. 985,981; Mar. 7; Sp. p. 490; Gaz. vol. 164; p. 78.
Cunningham, Robert E., and A. C. Smith, Elberton, Ga. Air and water attachment for dental engines. No. 1,000,785; Aug. 15; Sp. p. 3396; Gaz. vol. 169; p. 610.
Cunningham, Thomas M., Reading, Pa. Sight for blast-furnaces. No. 1,010,120; Nov. 28; Sp. p. 5452; Gaz. vol. 172; p. 977.
Cunningham, William J., Philadelphia, Pa. Vehicle-tire. No. 1,012,331; Dec. 19; Sp. p. 4343; Gaz. vol. p. 173; p. 744.
Cuno, Charles. (See Wilcox and Cuno.)
Cuno, Charles, assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Magneto. No. 1,008,019; Nov. 7; Sp. p. 805; Gaz. vol. 172; p. 128.
Cuntz, John H., Hoboken, N. J. Electric-wave transmission. No. 995,588; June 20; Sp. p. 3270; Gaz. vol. 167; p. 577.
Cupp, Harry N., Mars, Pa. Electrical vibrating device. No. 1,005,612; Oct. 10; Sp. p. 2300; Gaz. vol. 171; p. 396.
Cuppy, John W., and M. D. Moore, Baltimore, Md. Combined mop head and wringer. No. 982,084; Jan. 17; Sp. p. 4269; Gaz. vol. 162; p. 711.
Curbey, George N., Saginaw, Mich. Valve. No. 1,001,510; Aug. 22; Sp. p. 4928; Gaz. vol. 169; p. 890.
Cureton, Albert. (See Oliver and Cureton.)
Curl, Fred H., Des Moines, Iowa. Pattern for casting finger-rings. No. 996,978; July 4; Sp. p. 813; Gaz. vol. 168; p. 130.
Curlett, William, San Francisco, Cal. Knob and spindle connection. No. 1,008,790; Nov. 14; Sp. p. 2628; Gaz. vol. 172; p. 441.
Curley, James W., *et al.* (See Kennedy, John, assignor.)
Curr, Thomas, Jr., Airdrie, Scotland. Tube-rolling mill. No. 1,007,924; Nov. 7; Sp. p. 632; Gaz. vol. 172; p. 97.
Curr, Thomas, Jr., assignor of one-half to J. Maclean, Airdrie, Scotland. Drawing-board, printing-frame, and the like. No. 996,909; July 4; Sp. p. 647; Gaz. vol. 168; p. 105.
Curran, John H., Auburn, N. Y. Amusement apparatus. No. 1,011,414; Dec. 12; Sp. p. 2278; Gaz. vol. 173; p. 389.
Currell, John W., Youngstown, Ohio. Dirigible aerial torpedo. No. 981,068; Jan. 10; Sp. p. 2055; Gaz. vol. 162; p. 338.
Currell, John W., Youngstown, Ohio. Aerial torpedo. No. 981,069; Jan. 10; Sp. p. 2056; Gaz. vol. 162; p. 339.
Current Motor Company. (See Barron, Charles A., assignor.)
Currie, Frank S., Chicago, Ill. Combined journal-box and dust-guard. No. 999,486; Aug. 1; Sp. p. 574; Gaz. vol. 169; p. 100.
Currie, James, Allentown, Pa. Machine for hydrating lime. No. 989,126; Apr. 11; Sp. p. 1749; Gaz. vol. 165; p. 305.
Currie, John W., assignor to Consolidated Land and Machinery Company, Minneapolis, Minn. Rail-flushing mechanism for locomotives. No. 984,510; Feb. 14; Sp. p. 2711; Gaz. vol. 163; p. 455.
Currie, Rufus D., Hillsboro, Ohio. Attachment for drilling-machines. No. 980,610; Jan. 3; Sp. p. 934; Gaz. vol. 162; p. 151.
Currier, Arthur L., Newton Highlands, assignor to The J. W. Moore Machine Company, Boston, Mass. Button-card. No. 981,537; Jan. 10; Sp. p. 3071; Gaz. vol. 162; p. 501.
Currier, John. (See Halsey and Currier.)
Currin, John P., assignor of one-half to R. E. Currin and W. E. Ring, Pulaski, Va. Railway splice-bar. No. 992,757; May 23; Sp. p. 4124; Gaz. vol. 166; p. 763.
Currin, Robert E., *et al.* (See Currin, John P., assignor.)
Curry, Alfred A., assignor of one-half to E. B. Knowles and one-twentieth to C. S. Canfield, Bridgeport, Conn. Resilient wheel. No. 996,838; July 4; Sp. p. 484; Gaz. vol. 168; p. 80.
Curry, Alfred A., assignor of one-half to E. B. Knowles and one-twentieth to C. S. Canfield, Bridgeport, Conn. Resilient tire. No. 996,839; July 4; Sp. p. 486; Gaz. vol. 168; p. 81.
Curry, Anson W., Staunton, Va. Nut-lock. No. 995,058; June 13; Sp. p. 2123; Gaz. vol. 167; p. 368.
Curry, Charles H. (See Armstrong, Curry, and Harrold.)
Curry, Claud D., Memphis, Tenn. Paper-associating machine. No. 982,038; Jan. 17; Sp. p. 4169; Gaz. vol. 162; p. 696.
Curry, Claud D., Memphis, Tenn. Feeding mechanism for paper-associating machines. No. 982,039; Jan. 17; Sp. p. 4176; Gaz. vol. 162; p. 696.
Curry, Edward C., *et al.* (See Geraghty and Naylor, assignors.)
Curry, Monroe. (See Hoover and Curry.)
Curry, Samuel J., Innisfail, Alberta, Canada. Twine-holder. No. 990,961; May 2; Sp. p. 288; Gaz. vol. 166; p. 50.
Curry, William E., Parkersburg, W. Va. Apparatus for preparing and softening wood for bending. No. 992,114; May 9; Sp. p. 2706; Gaz. vol. 166; p. 479.
Curtain Supply Company, The. (See Forsyth, Henry H., assignor.)

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Curtain Supply Company, The. (See Forsyth, William H., assignor.)
Curtain Supply Company, The. (See Hopkins, Charles L., assignor.)
Curtain Supply Company. (See Whitmore, Edward E., assignor.)
Curtin, Peter A., Buffalo, N. Y. Combination measuring-tool. No. 987,703; Mar. 28; Sp. p. 4114; Gaz. vol. 164; p. 753.
Curtin, William H., Brooklyn, N. Y. Valve. No. 987,050; Mar. 14; Sp. p. 2708; Gaz. vol. 164; p. 468.
Curtin, William H., Brooklyn, N. Y. Valve. No. 1,001,624; Aug. 29; Sp. p. 5171; Gaz. vol. 169; p. 958.
Curtis, Andrew J., assignor of one-half to D. Wagemaker, East Williamson, N. Y. Wrench. No. 983,483; Feb. 7; Sp. p. 489; Gaz. vol. 163; p. 78.
Curtis, Charles G., New York, N. Y. Marine steam-turbine. No. 1,008,529; Nov. 14; Sp. p. 2036; Gaz. vol. 172; p. 348.
Curtis, Charles G., New York, N. Y. Marine steam-turbine. No. 1,008,530; Nov. 14; Sp. p. 2041; Gaz. vol. 172; p. 349.
Curtis, Charles G., New York, N. Y. Marine steam-turbine. No. 1,008,531; Nov. 14; Sp. p. 2045; Gaz. vol. 172; p. 349.
Curtis, Charles G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Elastic-fluid turbine. No. 985,885; Mar. 7; Sp. p. 267; Gaz. vol. 164; p. 44.
Curtis, Charles G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Elastic-fluid turbine. No. 985,982; Mar. 7; Sp. p. 493; Gaz. vol. 164; p. 78.
Curtis, Charles G., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Elastic-fluid turbine. No. 986,368; Mar. 7; Sp. p. 1284; Gaz. vol. 164; p. 208.
Curtis, Charles G., New York, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 996,317; June 27; Sp. p. 4888; Gaz. vol. 167; p. 862.
Curtis, Charles G., New York, N. Y., and R. L. Lovell, Quincy, Mass. Prime mover for marine propulsion. No. 1,008,532; Nov. 14; Sp. p. 2048; Gaz. vol. 172; p. 349.
Curtis, Charles H., assignor of one-half to G. G. Watson, Derby, Conn. Machine for vending liquids. No. 990,344; Apr. 25; Sp. p. 4426; Gaz. vol. 165; p. 783.
Curtis & Company Manufacturing Company. (See Steedman, George F., assignor.)
Curtis, David N., Maple City, Kans. Wrench. No. 996,462; June 27; Sp. p. 5214; Gaz. vol. 167; p. 914.
Curtis, Elon C., assignor of one-fourth to L. A. O. Knoph, Crosby, N. D. Gang-plow. No. 1,006,440; Oct. 17; Sp. p. 4121; Gaz. vol. 171; p. 718.
Curtis, Frank C., Troy, N. Y. Ventilated fuse-plug. No. 1,003,586; Sept. 19; Sp. p. 3058; Gaz. vol. 170; p. 551.
Curtis, Frank J., Ben Avon, Pa. Rotary pump. No. 999,753; Aug. 8; Sp. p. 1113; Gaz. vol. 169; p. 220.
Curtis, Frederic A., assignor, by mesne assignments, to The Steel Mantle Light Company, Toledo, Ohio. Deflector for oil-burners. No. 980,497; Jan. 3; Sp. p. 696; Gaz. vol. 162; p. 113.
Curtis, Frederic A., assignor, by mesne assignments, to The Steel Mantle Light Company, Toledo, Ohio. Burner. No. 995,773; June 20; Sp. p. 3682; Gaz. vol. 167; p. 642.
Curtis, Frederic A., assignor, by mesne assignments, to The Steel Mantle Light Company, Toledo, Ohio. Oil-burner. No. 999,301; Aug. 1; Sp. p. 207; Gaz. vol. 169; p. 39.
Curtis, George L., Bigtimber, Mont. Fork for hay-stackers. No. 988,628; Apr. 4; Sp. p. 733; Gaz. vol. 165; p. 117.
Curtis, George W., assignor of one-half to E. F. May, Oakland, Cal. Valve-operating mechanism for cars. No. 1,002,370; Sept. 5; Sp. p. 453; Gaz. vol. 170; p. 63.
Curtis, Grant M., assignor to Cyphers Incubator Company, Buffalo, N. Y. Electric heater for incubators, brooders, and the like. No. 985,983; Mar. 7; Sp. p. 496; Gaz. vol. 164; p. 79.
Curtis, Grant M., assignor to Cyphers Incubator Company, Buffalo, N. Y. Hover for poultry. No. 989,127; Apr. 11; Sp. p. 1751; Gaz. vol. 165; p. 305.
Curtis, Grove D., New York, N. Y. Conveying-chute. No. 997,276; July 11; Sp. p. 1429; Gaz. vol. 168; p. 263.
Curtis, Ida F. C., Dayton, Ohio. Water-heater. No. 1,002,371; Sept. 5; Sp. p. 454; Gaz. vol. 170; p. 63.
Curtis, Ida M., Worcester, Mass. Seat-cover. No. 1,006,915; Oct. 24; Sp. p. 5210; Gaz. vol. 171; p. 916.
Curtis, James G., assignor to The E. M. Hulse Company, Columbus, Ohio. Davenport-bed. No. 990,850; May 2; Sp. p. 48; Gaz. vol. 166; p. 11.
Curtis, James G., assignor to The E. M. Hulse Company, Columbus, Ohio. Sofa or davenport bed. No. 1,001,625; Aug. 29; Sp. p. 5173; Gaz. vol. 169; p. 950.
Curtis, John. (See Burges and Curtis.)
Curtis, John F., Macclenny, Fla. Cork-extractor. No. 990,962; May 2; Sp. p. 289; Gaz. vol. 166; p. 50.
Curtis-Leger Fixture Company. (See Eske, Albert, assignor.)
Curtis, Lewis E., Kenilworth, Ill., assignor to Ames Steel Lath Company, St. Louis, Mo. Machine for expanding sheet metal. No. 1,011,588; Dec. 12; Sp. p. 2708; Gaz. vol. 173; p. 454.
Curtis, Lewis E., Kenilworth, Ill., assignor to Ames Steel Lath Company, St. Louis, Mo. Feed device for sheet-metal-expanding machines. No. 1,011,589; Dec. 12; Sp. p. 2710; Gaz. vol. 173; p. 454.
Curtis, Lucy C., Toledo, Ohio, assignor of one-half to E. E. Burlingame, New York, N. Y., and one-half to F. E. Butler, Toledo, Ohio. Deflector for oil-burners. No. 1,003,989; Sept. 26; Sp. p. 3961; Gaz. vol. 170; p. 717.
Curtis & Marble Machine Company. (See Marble, Edwin H., assignor.)
Curtis Publishing Company, The. (See Sargent, William P., assignor.)
Curtis, Theodore H., Louisville, Ky. Stay-bolt for locomotive-boilers. No. 1,002,229; Sept. 5; Sp. p. 82; Gaz. vol. 170; p. 10.
Curtis, Theodore H., Louisville, Ky. Stay-bolt for steam-boilers. No. 1,002,230; Sept. 5; Sp. p. 83; Gaz. vol. 170; p. 10.
Curtis, Walter W., assignor to National Regulator Company, Chicago, Ill. Temperature-regulating device. No. 1,000,720; Aug. 15; Sp. p. 3245; Gaz. vol. 169; p. 587.
Curtis, Warren, Jr., Palmer, assignor to International Paper Company, New York, N. Y. Manufacture of paper. No. 1,001,822; Aug. 29; Sp. p. 5598; Gaz. vol. 169; p. 1027.
Curtiss, Glenn H. (See Bell, Baldwin, McCurdy, Curtiss, and Selfridge.)
Curtiss, Summerfield S., New York, N. Y. Inclinometer. No. 1,009,832; Nov. 28; Sp. p. 4874; Gaz. vol. 172; p. 880.
Curwen, Samuel M., Haverford, assignor to The J. G. Brill Company, Philadelphia, Pa. Passenger-car. No. 1,011,755; Dec. 12; Sp. p. 3046; Gaz. vol. 173; p. 509.
Cusatelli, Giuseppe, Taranto, Italy. Making superphosphates. No. 997,968; July 18; Sp. p. 2957; Gaz. vol. 168; p. 542.
Cushing, George H., assignor to The H. B. Smith Company, Westfield, Mass. Mounting for furnace-doors. No. 980,764; Jan. 3; Sp. p. 1253; Gaz. vol. 162; p. 201.
Cushing, William, Claysville, Pa. Wheel-turning device. No. 1,000,898; Aug. 15; Sp. p. 3616; Gaz. vol. 169; p. 650.
Cushman, Albert H., Chicago, Ill., assignor to Morley Button Manufacturing Company, Boston, Mass. Button-holder. No. 987,051; Mar. 14; Sp. p. 2709; Gaz. vol. 164; p. 468.
Cushman, Allerton S., Washington, D. C. Treating rocks containing potassium. No. 987,436; Mar. 21; Sp. p. 3538; Gaz. vol. 164; p. 632.
Cushman, Allerton S., Washington, D. C. Inhibitive pigment and making same. No. 987,965; Mar. 28; Sp. p. 4728; Gaz. vol. 164; p. 844.
Cushman & Denison Manufacturing Company. (See Hamburg, Henry P., assignor.)
Cushman & Denison Mfg. Co. (See Wosinski, Frank, assignor.)
Cushman, Elmer V., and H. Wright, Canton, Mass. Treating leather. No. 993,438; May 30; Sp. p. 5596; Gaz. vol. 166; p. 1027.
Cushman, Everett B., Lincoln, Nebr. Friction-clutch. No. 1,008,309; Nov. 14; Sp. p. 1483; Gaz. vol. 172; p. 272.
Cushman, Thomas G., Sunland, Cal. Shock-absorber. No. 996,220; June 27; Sp. p. 4654; Gaz. vol. 167; p. 831.
Cushman, Thomas G., Sunland, Cal. Shock-absorber. No. 1,012,127; Dec. 19; Sp. p. 3904; Gaz. vol. 173; p. 675.
Cusick, John, Sharon, Pa. Rail-joint. No. 985,572; Feb. 28; Sp. p. 5037; Gaz. vol. 163; p. 891.
Cusick, John, Sharon, Pa. Rail-joint. No. 993,153; May 23; Sp. p. 4983; Gaz. vol. 166; p. 901.
Custer, Dwight W., assignor, by mesne assignments, to Automatic Printing Press Company, New York, N. Y. Printing-press. No. 992,172; May 16; Sp. p. 2850; Gaz. vol. 166; p. 531.
Custer, Frank. (See Boehme, Edward H., assignor.)
Custer, John S., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Retarded-release valve. No. 1,003,990; Sept. 26; Sp. p. 3962; Gaz. vol. 170; p. 717.
Custer, John S., assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Duplex-pressure emergency and straight-air brake. No. 1,009,286; Nov. 21; Sp. p. 3715; Gaz. vol. 172; p. 647.
Custer, John S., and H. M. P. Murphy, assignors to The Westinghouse Air Brake Company, Pittsburg, Pa. Triple-valve device. No. 988,629; Apr. 4; Sp. p. 735; Gaz. vol. 165; p. 117.
Custer, John S., Pittsburg, and H. M. P. Murphy, Edgewood, assignors to The Westinghouse Air Brake Company, Pittsburg, Pa. Load-brake device. No. 988,696; Apr. 4; Sp. p. 860; Gaz. vol. 165; p. 139.
Custer, Peter A., Woodriver, Ill. Seed-feeding device. No. 1,004,749; Oct. 3; Sp. p. 436; Gaz. vol. 171; p. 72.
Custer, Peter A., Woodriver, Ill. Corn-planter. No. 1,004,854; Oct. 3; Sp. p. 667; Gaz. vol. 171; p. 109.
Custer, William F., Summitville, Ind. Auxiliary horse-shoe. No. 1,000,327; Aug. 8; Sp. p. 2344; Gaz. vol. 169; p. 415.
Cuthbert, George. (See Hall and Cuthbert.)
Cuthbert, George, assignor of one-half to F. J. Fee, Philadelphia, Pa. Variable-speed transmission mechanism. No. 980,210; Jan. 3; Sp. p. 66; Gaz. vol. 162; p. 13.
Cutler, George L. (See Hull, Cutler, and Bauman.)

Cutler-Hammer Manufacturing Company, The. (See Cutler, Henry H., assignor.)
Cutler-Hammer Mfg. Co., The. (See Bacon, Frank R., assignor.)
Cutler-Hammer Mfg. Co., The. (See Barnum, Thomas E., assignor.)
Cutler-Hammer Mfg. Co., The. (See Carpenter, Charles E., assignor.)
Cutler-Hammer Mfg. Co., The. (See Henderson, Clark T., assignor.)
Cutler-Hammer Mfg. Co. (See Horton, Albert J., assignor.)
Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
Cutler-Hammer Mfg. Co., The. (See Simon, Arthur, assignor.)
Cutler-Hammer Mfg. Co., The. (See Stevens, William C., assignor.)
Cutler-Hammer Mfg. Co., The. (See Taylor, Floyd T., assignor.)
Cutler-Hammer Mfg. Co., The. (See Wiegand, Henry J., assignor.)
Cutler-Hammer Mfg. Co., The. (See Yarger, Charles W., assignor.)
Cutler, Harrison B., New York, N. Y. Planking and decking clamp. No. 994,722; June 13; Sp. p. 1362; Gaz. vol. 167; p. 255.
Cutler, Henry H., assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Apparatus for supplying fluid-pressure. No. 1,012,821; Dec. 26; Sp. p. 5392; Gaz. vol. 173; p. 957.
Cutler, Joseph W., assignor to The Cutler Mail Chute Company, Rochester, N. Y. Mail-chute. No. 990,233; Apr. 25; Sp. p. 4163; Gaz. vol. 165; p. 744.
Cutler, Lorin, *et al.* (See Cutler, Lorin L., assignor.)
Cutler, Lorin L., assignor of one-sixth to T. S. Cutler, one-sixth to S. H. Cutler, and one-sixth to L. Cutler, Danville, Ill. Carbureter. No. 989,697; Apr. 18; Sp. p. 3015; Gaz. vol. 165; p. 530.
Cutler Mail Chute Company, The. (See Cutler, Joseph W., assignor.)
Cutler Mail Chute Company. (See Ehrlich, Leo, assignor.)
Cutler Mail Chute Company. (See Smith and Kumming, assignors.)
Cutler & Proctor Stove Co., The. (See Genthner, Charles M., assignor.)
Cutler, Samuel H., *et al.* (See Cutler, Lorin L., assignor.)
Cutler, Thomas S., *et al.* (See Cutler, Lorin L., assignor.)
Cutler, W. C. (See Cammett, Ira A., assignor.)
Cutlip, Edward K. (See Caudy and Cutlip.)
Cutter Electrical and Manufacturing Company. (See Scott, William M., assignor.)
Cuttill, William, and J. D. Blackwell, Hyde, England. Apparatus for treating or cleaning cotton-waste or the like. No. 985,731; Feb. 28; Sp. p. 5395; Gaz. vol. 163; p. 945.
Cyphers Incubator Company. (See Adair, Charles E., assignor.)
Cyphers Incubator Company. (See Curtis, Grant M., assignor.)
Cyphers Incubator Company. (See Damon, Charles A., assignor.)
Cypra, Anton, Worcester, Mass. Diving-helmet. No. 1,000,721; Aug. 15; Sp. p. 3249; Gaz. vol. 169; p. 587.
Cyr, Siméon, Valleyfield, Quebec, Canada. Truck. No. 993,037; May 23; Sp. p. 4736; Gaz. vol. 166; p. 862.
Cyrus, Richard R., Covello, Wash. Riding attachment for harrows. No. 981,982; Jan. 17; Sp. p. 4058; Gaz. vol. 162; p. 677.
Czech, John, and W. Bednarczuk, Herkimer, N. Y. Rail-joint. No. 1,010,867; Dec. 5; Sp. p. 1050; Gaz. vol. 173; p. 164.
Czettel, Julius, Budapest, Austria-Hungary. Label. No. 1,005,696; Oct. 10; Sp. p. 2480; Gaz. vol. 171; p. 425.
Czinják, Charles, Cleveland, Ohio. Massage implement. No. 998,328; July 18; Sp. p. 3783; Gaz. vol. 168; p. 673.
D. & D. Button-Hole Machine Company. (See Jessen, James, assignor.)
D. H. Burrell & Company. (See Feldmeier, Harvey, assignor.)
D. M. Sechler Implement & Carriage Company. (See Tunnicliff, John C., assignor.)
D. O. Summers Cleaning Company. (See Tozer, Archibald B., assignor.)
D. & S. Airless Tire Company. (See Doty and Show, assignors.)
D. T. Owen Company, The. (See Owen, David T., assignor.)
D. T. Williams Valve Company, The. (See Swanberg, Floyd L., assignor.)
D'Antonio, Remigius, Capistrano, Aquila, Italy. Reflector for wireless telegraphy. No. 986,806; Mar. 14; Sp. p. 2226; Gaz. vol. 164; p. 386.
D'Antonio, Remigius, Capestrano, Italy. Marine propulsion. No. 988,697; Apr. 4; Sp. p. 865; Gaz. vol. 165; p. 139.
D'Arcy, Cecil R., Wolston, near Coventry, England, assignor to General Electric Company. Wattmeter. No. 1,003,883; Sept. 19; Sp. p. 3673; Gaz. vol. 170; p. 653.
D'Equevilley-Montjustin, Raymond, Kiel, Germany. Generating steam for submarine boats. No. 986,373; Mar. 7; Sp. p. 1295; Gaz. vol. 164; p. 209.
D'Equevilley-Montjustin, Raymond, Kiel, Germany. Soda steam-generator. No. 1,003,095; Sept. 12; Sp. p. 2018; Gaz. vol. 170; p. 347.
D'Equevilley, Raymond, Kiel, Germany. Submarine boat. No. 988,632; Apr. 4; Sp. p. 740; Gaz. vol. 165; p. 118.
D'Eustachio, Gabriele, and P. von Lehoczky, Pittsburgh, Pa. Automatic voltage-regulator. No. 1,005,107; Oct. 3; Sp. p. 1141; Gaz. vol. 171; p. 193.
D'Homergue, John B., Pittsburg, Pa. Street-cleaning machine. No. 981,652; Jan. 17; Sp. p. 3301; Gaz. vol. 162; p. 561.
Da Rozir, Levi, Brockton, Mass. Baking-pan and lifting attachment therefor. No. 1,009,227; Nov. 21; Sp. p. 3585; Gaz. vol. 172; p. 626.
Da Vier, Joseph M., Disco, Ill. Concrete land-roller. No. 1,012,612; Dec. 26; Sp. p. 4910; Gaz. vol. 173; p. 884.
Dabaghian, Dikran K. (See Noble and Dabaghian.)
Daellenbach, Carl R., Braddock, Pa. Air-brake. No. 1,010,597; Dec. 5; Sp. p. 446; Gaz. vol. 173; p. 69.
Dafoe, Fred W., Rock Island, Ill. Bottle-capping machine. No. 984,649; Feb. 21; Sp. p. 3044; Gaz. vol. 163; p. 539.
Dagg, James H., Hopkinsville, Ky. Refrigerator. No. 983,124; Jan. 31; Sp. p. 6465; Gaz. vol. 162; p. 1124.
Daher, Charles, Marseille, assignor to The Societe J. et A. Pavin De Lafarge, Viviers, France. Manufacturing cement. No. 1,004,380; Sept. 26; Sp. p. 4829; Gaz. vol. 170; p. 852.
Dahill, Edward F., New Bedford, Mass. Machine for raising and lowering ladders. No. 983,212; Jan. 31; Sp. p. 6625; Gaz. vol. 162; p. 1152.
Dahill, Edward F., New Bedford, and C. R. Bartlett, Plymouth, Mass. Ladder. No. 983,213; Jan. 31; Sp. p. 6628; Gaz. vol. 162; p. 1152.
Dahl, Benjamin, Minneapolis, Minn. Mechanically-adjustable resilient tire. No. 983,878; Feb. 14; Sp. p. 1358; Gaz. vol. 163; p. 244.
Dahl, Charles A., Roxbury, and C. H. T. Hagelstein, Dorchester, assignors to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine for finishing buttonholes. No. 987,966; Mar. 28; Sp. p. 4730; Gaz. vol. 164; p. 844.
Dahl, Gustaf R., New York, N. Y. Table with folding chair. No. 997,277; July 11; Sp. p. 1432; Gaz. vol. 168; p. 264.
Dahl, Karl J. G., Minneapolis, Minn. Saw-clamping device. No. 1,003,991; Sept. 26; Sp. p. 3965; Gaz. vol. 170; p. 718.
Dahl, Knut M., assignor to Union Iron Works Co., San Francisco, Cal. Liquid-atomizer. No. 1,008,119; Nov. 7; Sp. p. 1014; Gaz. vol. 172; p. 164.
Dahl, Knut M., assignor to Union Iron Works Co., San Francisco, Cal. Air-regulating device for oil-burning furnaces. No. 1,009,723; Nov. 28; Sp. p. 4637; Gaz. vol. 172; p. 842.
Dahl, Knut M., assignor to Union Iron Works Co., San Francisco, Cal. Liquid-atomizer. No. 1,011,036; Dec. 5; Sp. p. 1387; Gaz. vol. 173; p. 221.
Dahl, Walter B., Minneapolis, Minn. Ring-tray. No. 989,571; Apr. 18; Sp. p. 2737; Gaz. vol. 165; p. 488.
Dahlberg, Frank J., Virginia, Minn. Cattle-guard. No. 993,962; May 30; Sp. p. 6701; Gaz. vol. 166; p. 1206.
Dahlen, Andrew, Chicago, Ill. Extensible bracket. No. 997,650; July 11; Sp. p. 2202; Gaz. vol. 168; p. 390.
Dahlgren, Charles U., Gloster, Miss. Conveyer. No. 1,008,791; Nov. 14; Sp. p. 2630; Gaz. vol. 172; p. 441.
Dahlgren, John M., Kollock, S. C. Shoe-fastener. No. 998,471; July 18; Sp. p. 4069; Gaz. vol. 168; p. 721.
Dahlhaus, Edmond A., New York, N. Y. Shoe. No. 991,833; May 9; Sp. p. 2158; Gaz. vol. 166; p. 384.
Dahlke, Gustave H., Grand Island, Nebr. Mail-box. No. 987,557; Mar. 21; Sp. p. 3765; Gaz. vol. 164; p. 672.
Dahlstrom, Charles, assignor to The Dahlstrom Metallic Door Company, Jamestown, N. Y. Metallic door-jamb. No. 985,886; Mar. 7; Sp. p. 274; Gaz. vol. 164; p. 44.
Dahlstrom Metallic Door Company, The. (See Dahlstrom, Charles, assignor.)
Dailey, Frank N., *et al.* (See Stanley, Thomas H., assignor.)
Dailey, Harry S., Bellefontaine, Ohio. Engineer's leveling-rod. No. 985,784; Mar. 7; Sp. p. 34; Gaz. vol. 164; p. 8.
Dailey, Howard P., assignor of one-half to A. L. Beall, Philadelphia, Pa. Hinge. No. 993,154; May 23; Sp. p. 4984; Gaz. vol. 166; p. 901.
Dailey, John. (See Harrell and Dailey.)
Dailey, Patrick F. (See Werrick and Dailey.)
Daime, Joseph, Marseille, France. System for decantation of water. No. 1,005,419; Oct. 10; Sp. p. 1840; Gaz. vol. 171; p. 327.
Daimler Motoren-Gesellschaft. (See Daimler, Paul, assignor.)
Daimler, Paul, Untertürkheim, Germany. Steerable front wheel of motor-driven vehicles. No. 980,211; Jan. 3; Sp. p. 69; Gaz. vol. 162; p. 14.
Daimler, Paul, Untertürkheim, Germany. Gearing. No. 994,130; June 6; Sp. p. 56; Gaz. vol. 167; p. 12.
Daimler, Paul, Untertürkheim-Stuttgart, Germany. Double friction-clutch. No. 996,318; June 27; Sp. p. 4891; Gaz. vol. 167; p. 862.

Alphabetical list of patentees—Continued.

Daimler, Paul, assignor to Daimler Motorengesellschaft, Untertürkheim-Stuttgart, Germany. Friction-clutch. No. 996,319; June 27; Sp. p. 4892; Gaz. vol. 167; p. 863.
Daimler, Paul, assignor to Daimler Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Cooling apparatus for motor-vehicles. No. 998,876; July 25; Sp. p. 4993; Gaz. vol. 168; p. 896.
Daimler, Paul, assignor to Daimler-Motoren-Gesellschaft, Untertürkheim-Stuttgart, Germany. Oil-circulatory system or apparatus. No. 1,012,332; Dec. 19; Sp. p. 4345; Gaz. vol. 173; p. 744.
Dain, Joseph, Ottumwa, Iowa. Hay-rake. No. 1,007,676; Nov. 7; Sp. p. 34; Gaz. vol. 172; p. 9.
Dairymens Supply Company. (See Meloney and Wood, assignors.)
Daisy Manufacturing Company. (See Burrows, William J., assignor.)
Dakin, Ernest F. (See Blake, Francis M., assignor.)
Dakin, Isaac C., West Newton, Pa. Automatic safety device. No. 992,858; May 23; Sp. p. 4347; Gaz. vol. 166; p. 799.
Dakin, Isaac C., West Newton, Pa. Nut-lock. No. 1,007,925; Nov. 7; Sp. p. 633; Gaz. vol. 172; p. 97.
Dalbey, Frank R., Webster City, Iowa. Metal-cutting shears. No. 990,636; Apr. 25; Sp. p. 5081; Gaz. vol. 165; p. 885.
Dalby, Dorothy D. (See Mooers, George W., assignor.)
Dale, John H., New York, N. Y. Cluster-socket. No. 993,762; May 30; Sp. p. 6317; Gaz. vol. 166; p. 1139.
Dale, Jonathan. (See Robinson and Dale.)
Dale, Lawrence, East Stroudsburg, Pa. Fish-hook. No. 980,212; Jan. 3; Sp. p. 70; Gaz. vol. 162; p. 14.
Dalén, Gustaf, Stockholm, Sweden, assignor to American Gasaccumulator Company, Philadelphia, Pa. Pendulum-support for lenses. No. 985,513; Feb. 28; Sp. p. 4913; Gaz. vol. 163; p. 871.
Dalén, Gustaf, Stockholm, Sweden, assignor, by mesne assignments, to American Gasaccumulator Company. Device for automatically opening and closing valves. No. 1,011,756; Dec. 12; Sp. p. 3048; Gaz. vol. 173; p. 509.
Dalén, Gustaf, Stockholm, Sweden, assignor to American Gasaccumulator Company, Philadelphia, Pa. Diaphragm-valve. No. 1,011,922; Dec. 19; Sp. p. 3434; Gaz. vol. 173; p. 601.
Daley, Daniel P., Bolivar, N. Y. Carpenter's saw-vise. No. 997,243; July 4; Sp. p. 1354; Gaz. vol. 168; p. 222.
Daley, Dinis W., Parkersburg, W. Va. Reinforced concrete structure. No. 990,963; May 2; Sp. p. 291; Gaz. vol. 166; p. 50.
Daley, Fred A., assignor to Underfeed Stoker Company of America, Chicago, Ill. Furnace. No. 997,604; July 11; Sp. p. 2082; Gaz. vol. 168; p. 372.
Daley, William A. (See Rogers, Lee H., assignor.)
Dallemagne, François, Pasajes, Spain. Mechanical movement for ore concentrating and separating apparatus. No. 1,006,831; Oct. 24; Sp. p. 5022; Gaz. vol. 171; p. 887.
Dalley, Charles J., Raritan, N. J. Lifting-board for drop-hammers. No. 1,002,231; Sept. 5; Sp. p. 86; Gaz. vol. 170; p. 10.
Dalman, John W., Chicago, Ill. Means for eliminating the glare of lamps. No. 1,001,733; Aug. 29; Sp. p. 5410; Gaz. vol. 169; p. 997.
Dalpez, Matteo L., Telluride, Colo, Cuspidor. No. 1,010,027; Nov. 28; Sp. p. 5276; Gaz. vol. 172; p. 945.
Dalton Adding Machine Company. (See Hoyt, Francis R., assignor.)
Dalton Adding Machine Company. (See Pickles, Charles K., assignor.)
Dalton Adding Machine Company. (See Raber, Joseph, assignor.)
Dalton, Andrew J. (See Coleman, John W., assignor.)
Dalton, John E., Cleveland, Ohio. Automatic damper. No. 1,003,587; Sept. 19; Sp. p. 3059; Gaz. vol. 170; p. 552.
Dalton, Philip J., Joliet, Ill., assignor to The Rail Joint Company, New York, N. Y. Rail-joint fastening. No. 1,011,415; Dec. 12; Sp. p. 2281; Gaz. vol. 173; p. 389.
Dalton, William, Schenectady, N. Y. Steam-boiler superheater. No. 997,440; July 11; Sp. p. 1749; Gaz. vol. 168; p. 317.
Daly, Christopher L. (See Daly, John M., assignor.)
Daly, Fred, Prairie City, Iowa. Horse-cleaner. No. 996,221; June 27; Sp. p. 4656; Gaz. vol. 167; p. 831.
Daly, George A., Leavenworth, Wash. Saw-guide. No. 997,373; July 11; Sp. p. 1631; Gaz. vol. 168; p. 296.
Daly, James G., and C. K. Moore, Middletown, Ind. Sanitary drinking-fountain. No. 985,732; Feb. 28; Sp. p. 5398; Gaz. vol. 163; p. 945.
Daly, John J. (See Du Pont and Daly.)
Daly, John M., Chicago, Ill. Load-brace for cars. No. 994,822; June 13; Sp. p. 1592; Gaz. vol. 167; p. 289.
Daly, John M., Chicago, assignor of one-half to C. L. Daly, Peoria, Ill. Computing-machine. No. 994,821; June 13; Sp. p. 1578; Gaz. vol. 167; p. 289.
Daly, John M., Chicago, assignor of one-half to C. L. Daly, Peoria, Ill. Computing-machine. No. 994,823; June 13; Sp. p. 1596; Gaz. vol. 167; p. 290.
Daly, William J., Mason City, Iowa. Sink-frame bracket. No. 1,006,361; Oct. 17; Sp. p. 3966; Gaz. vol. 171; p. 690.
Dalzell, Andrew H., assignor of one-half to C. J. Pembroke, Rochester, N. Y. Starter for explosive-engines. No. 1,002,372; Sept. 5; Sp. p. 455; Gaz. vol. 170; p. 63.
Dam, Chris. (See Andersen and Dam.)
Damascus Brake Beam Co., The. (See Handiges, Philip T., assignor.) (Reissue.)
Damascus Brake Beam Co., The. (See Smith, Edgar S., assignor.)
Damascus Brake Beam Co., The. (See Waycott, Albert, assignor.)
Damerell, Henry. (See Horton, Achsah C., assignor.)
Damey, Charles, London, England. Electric incandescent lamp and holder. No. 1,011,166; Dec. 12; Sp. p. 1727; Gaz. vol. 173; p. 302.
Damitz, Frederic W., Pe Ell, Wash. Vehicle-wheel. No. 1,009,226; Nov. 21; Sp. p. 3583; Gaz. vol. 172; p. 626.
Damm, Otto. (See Olsen and Damm.)
Dammling, William J., West Haven, Conn. Roundabout. No. 994,444; June 6; Sp. p. 708; Gaz. vol. 167; p. 121.
Damon, Charles A., assignor to Cyphers Incubator Company, Buffalo, N. Y. Incubator-heater. No. 985,514; Feb. 28; Sp. p. 4914; Gaz. vol. 163; p. 871.
Damon, Charles A., assignor to Cyphers Incubator Company, Buffalo, N. Y. Heater. No. 990,345; Apr. 25; Sp. p. 4431; Gaz. vol. 165; p. 784.
Damron, Frank E., Roanoke, Va. Valve. No. 1,012,604; Dec. 26; Sp. p. 4885; Gaz. vol. 173; p. 880.
Damsma, Harry P., Battle Creek, Mich. Animal-trap. No. 995,664; June 20; Sp. p. 3429; Gaz. vol. 167; p. 604.
Dana, Chauncey R., Santa Maria, Cal. Time-controlled electric switch. No. 994,575; June 6; Sp. p. 985; Gaz. vol. 167; p. 164.
Dana, William H., Indianapolis, Ind., assignor to L. Rauh, Dayton, Ohio. Voting-machine. No. 994,131; June 6; Sp. p. 57; Gaz. vol. 167; p. 12.
Dana, William H., assignor to L. Rauh, Dayton, Ohio. Voting-machine. No. 994,132; June 6; Sp. p. 60; Gaz. vol. 167; p. 12.
Dandliker, Walter P., West Allis, Wis., assignor to Allis-Chalmers Company. Field-magnet structure. No. 992,548; May 16; Sp. p. 3704; Gaz. vol. 166; p. 663.
Dandliker, Walter P., West Allis, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 995,441; June 20; Sp. p. 2935; Gaz. vol. 167; p. 524.
Danenmark, Jacob, New York, N. Y. Fastening device for corsets. No. 992,549; May 16; Sp. p. 3706; Gaz. vol. 166; p. 663.
Dangel, John, Chicago, Ill., assignor to International Harvester Company. Grain-binder. No. 991,834; May 9; Sp. p. 2159; Gaz. vol. 166; p. 384.
Daniel, Charles C., Kansas City, Mo. Loose-leaf directory. No. 1,001,124; Aug. 22; Sp. p. 4170; Gaz. vol. 169; p. 762.
Daniel, Percy G. E., Clevedon, and C. A. H. Bullock, London, England. Machine for counting and checking stamps and the like. No. 981,387; Jan. 10; Sp. p. 2767; Gaz. vol. 162; p. 449.
Daniell, Frederick H. (See Hebden and Daniell.)
Daniell, Frederick H., deceased, (M. B. Daniell, executrix,) Franklin, N. H., assignor to Franklin Process Company, Providence, R. I. Cop-tube. (Reissue.) No. 13,223; Mar. 28; Sp. p. 5388; Gaz. vol. 164; p. 952.
Daniell, Mary B., executrix. (See Daniell, Frederick H.) (Reissue.)
Daniell, Mary B., executrix. (See Hebden and Daniell.)
Daniels, Arthur H. (See Dyson and Daniels.)
Daniels, Charles E., Albany, N. Y. Automatic device for feeding animals. No. 1,004,855; Oct. 3; Sp. p. 669; Gaz. vol. 171; p. 109.
Daniels, Charles E., and E. S. McNichols, Atchison, Kans. Gas-engine starter. No. 985,011; Feb. 21; Sp. p. 3758; Gaz. vol. 163; p. 663.
Daniels, Daniel, Los Angeles, Cal. Pump for oil-wells. No. 998,076; July 18; Sp. p. 3203; Gaz. vol. 168; p. 580.
Daniels, Daniel, and L. P. Burgess, Los Angeles, Cal. Lining-plunger for oil-well pumps. No. 987,347; Mar. 21; Sp. p. 3356; Gaz. vol. 164; p. 602.
Daniels, Daniel, and L. P. Burgess, Los Angeles, Cal. Working-barrel for oil-well pumps. No. 1,004,151; Sept. 26; Sp. p. 4373; Gaz. vol. 170; p. 775.
Daniels, Dwight C., Worcester, Mass. Utilizing the heat of metal products. No. 1,000,328; Aug. 8; Sp. p. 2345; Gaz. vol. 169; p. 415.
Daniels, Fred H., Worcester, Mass. Apparatus for annealing. No. 983,981; Feb. 14; Sp. p. 1590; Gaz. vol. 163; p. 277.
Daniels, John L., and B. G. Kuhne, Charlotte, N. C., assignors to Cotton Stalk Fiber Machine Co., Gaffney, S. C. Machine for stripping and breaking cotton-stalks. No. 986,551; Mar. 14; Sp. p. 1690; Gaz. vol. 164; p. 299.
Daniels, Julian C., Attleboro, Mass. Locket. No. 981,917; Jan. 17; Sp. p. 3898; Gaz. vol. 162; p. 655.
Daniels, Julian C., Attleboro, Mass. Locket. No. 998,160; July 18; Sp. p. 3379; Gaz. vol. 168; p. 610.
Daniels, Thomas H., Manchester, England. Dyeing apparatus. No. 996,463; June 27; Sp. p. 5216; Gaz. vol. 167; p. 914.
Daniels, Thomas M., Valdez, Alaska. Bottle. No. 986,270; Mar. 7; Sp. p. 1074; Gaz. vol. 164; p. 172.

Alphabetical list of patentees—Continued.

Daniels, Walter A., assignor to National Waterproof Film Company, Chicago, Ill. Coating picture-films. No. 987,437; Mar. 21; Sp. p. 3540; Gaz. vol. 164; p. 632.
Danielski-Busch, Stanislaw, Moscow, Russia. Type-bar frame for type-writing machines. No. 1,005,613; Oct. 10; Sp. p. 2302; Gaz. vol. 171; p. 397.
Danielson, Albin, Chicago, Ill. Door-check. No. 995,665; June 20; Sp. p. 3430; Gaz. vol. 167; p. 604.
Danielson, Gustave F., Youngstown, Ohio. Harrow-tooth clip. No. 992,941; May 23; Sp. p. 4536; Gaz. vol. 166; p. 830.
Danielson, Gustave F., Youngstown, Ohio. Seat-clip. No. 995,059; June 13; Sp. p. 2124; Gaz. vol. 167; p. 369.
Danielson, Gustave F., Youngstown, Ohio. Shovel. No. 996,621; July 4; Sp. p. 56; Gaz. vol. 168; p. 11.
Danielson, Gustave F., Youngstown, Ohio. Lever-latch. No. 1,001,125; Aug. 22; Sp. p. 4172; Gaz. vol. 169; p. 763.
Danielson, Howard R., Crookston, Minn. Horse-brush. No. 987,967; Mar. 28; Sp. p. 4738; Gaz. vol. 164; p. 845.
Danielson, Oscar A., and L. R. Jones, New York, N. Y. Propeller. No. 1,000,999; Aug. 22; Sp. p. 3886; Gaz. vol. 169; p. 718.
Danielson, Wilhelm G., Independence, Mo. Plow-frame. No. 1,008,020; Nov. 7; Sp. p. 810; Gaz. vol. 172; p. 128.
Danielsson, Per F., assignor to C. E. G. Ramstrom, Södertelje, Sweden. Measuring vessel for liquid-measuring apparatus. No. 1,000,079; Aug. 8; Sp. p. 1836; Gaz. vol. 169; p. 332.
Danko, Michael, South Bethlehem, Pa. Arc soldering-iron. No. 997,044; July 4; Sp. p. 965; Gaz. vol. 168; p. 154.
Dann, Ernest G., Chicago, assignor to Peter & Volz, Arlington Heights, Ill. Hinged seat. No. 984,474; Feb. 14; Sp. p. 2622; Gaz. vol. 163; p. 443.
Dann, Ernest G., assignor to W. A. Marguerat and N. W. Mackey, Chicago, Ill. Book-holder. No. 995,442; June 20; Sp. p. 2937; Gaz. vol. 167; p. 524.
Dann, Joseph A., Miami, Fla. Horseshoe attachment. No. 988,980; Apr. 11; Sp. p. 1440; Gaz. vol. 165; p. 254.
Dannebohm, John, Ellinwood, Kans. Trestle. No. 1,011,923; Dec. 19; Sp. p. 3435; Gaz. vol. 173; p. 602.
Dannenberg, Edward, Chicago, Ill. Pipe. No. 1,006,916; Oct. 24; Sp. p. 5211; Gaz. vol. 171; p. 916.
Danner, Maurice H., Lamar, Nebr. Currycomb. No. 995,443; June 20; Sp. p. 2940; Gaz. vol. 167; p. 525.
Danner, Michael, Panola, Ill. Vehicle-wheel. No. 1,001,000; Aug. 22; Sp. p. 3888; Gaz. vol. 169; p. 718.
Danner, William H., Lagrange, Ind. Sliding door. No. 989,488; Apr. 11; Sp. p. 2521; Gaz. vol. 165; p. 426.
Danner, William H., Marietta, Ohio. Hinge. No. 992,115; May 9; Sp. p. 2707; Gaz. vol. 166; p. 479.
Danquard, Thomas, assignor, by mesne assignments, to Auto Pneumatic Action Co., New York, N. Y. Pneumatic governor. No. 983,879; Feb. 14; Sp. p. 1359; Gaz. vol. 163; p. 244.
Danquard, Thomas, assignor, by mesne assignments, to Auto Pneumatic Action Co., New York, N. Y. Regulator for pneumatically-operated musical instruments. No. 1,006,728; Oct. 24; Sp. p. 4759; Gaz. vol. 171; p. 848.
Danquard, Thomas, assignor, by mesne assignments, to Auto Pneumatic Action Co., New York, N. Y. Folding treadle. No. 1,008,310; Nov. 14; Sp. p. 1484; Gaz. vol. 172; p. 272.
Danquard, Thomas, and W. J. Keeley, New York, N. Y., assignors to Auto Pneumatic Action Company. Controlling device for pneumatically-operated motors. No. 993,038; May 23; Sp. p. 4738; Gaz. vol. 166; p. 862.
Dansette, Henri, and A. Dazin, Lille, France. Device for securing bobbins to shuttles for weaving-looms. No. 1,006,441; Oct. 17; Sp. p. 4124; Gaz. vol. 171; p. 718.
Danver, Andrew C., Providence, R. I. Automatic oiling device for push-rods of automobile-engines. No. 1,000,722; Aug. 15; Sp. p. 3251; Gaz. vol. 169; p. 588.
Danver, Andrew C., Pittsburgh, Pa., assignor of one-half to W. Ely, Providence, R. I. Inflating device for automobile-tires. No. 1,011,121; Dec. 5; Sp. p. 1583; Gaz. vol. 173; p. 251.
Danver, James H., Beaver, assignor to United States Sanitary Manufacturing Company, Pittsburg, Pa. Casing for bath-tubs. No. 993,826; May 30; Sp. p. 6455; Gaz. vol. 166; p. 1162.
Danver, James H., Beaver, assignor to United States Sanitary Manufacturing Company, Pittsburg, Pa. Making mottled enamel. No. 1,001,511; Aug. 22; Sp. p. 4930; Gaz. vol. 169; p. 890.
Danver, James H., Beaver, assignor to United States Sanitary Manufacturing Company, Pittsburgh, Pa. Casing for bath-tubs. No. 1,009,488; Nov. 21; Sp. p. 4160; Gaz. vol. 172; p. 717.
Danzenbaker, Francis, Miami, Fla. Bee-smoker. No. 993,439; May 30; Sp. p. 5597; Gaz. vol. 166; p. 1027.
Danzer, Henry, Paris, France. Preparing kinematographic-film supports. No. 988,981; Apr. 11; Sp. p. 1441; Gaz. vol. 165; p. 255.
Danziger, Alfred D. (See Guilbault, George, assignor.)
Danziger, Benno, Mannheim, Germany. Barrel-washing machine. No. 1,004,381; Sept. 26; Sp. p. 4830; Gaz. vol. 170; p. 852.
Danziger, Joseph, Chicago, Ill. Automatic equilibrating device for aeroplanes. No. 999,012; July 25; Sp. p. 5303; Gaz. vol. 168; p. 944.
Darabos, Peter, Oakdale, Pa. Safety device for mines. No. 984,355; Feb. 14; Sp. p. 2387; Gaz. vol. 163; p. 404.
Darby, Harry W., Winnipeg, Manitoba, Canada. Battery. No. 982,576; Jan. 24; Sp. p. 5279; Gaz. vol. 162; p. 911.
Darby, John A., Newport, Ind. Wrench. No. 994,699; June 6; Sp. p. 1270; Gaz. vol. 167; p. 207.
Darby, Thomas C., Wickford, England. Implement for plowing and otherwise cultivating land. No. 988,315; Apr. 4; Sp. p. 37; Gaz. vol. 165; p. 9.
Darby, Willard C. (See Fry, Darby, and Kershaw.)
Darby, Willard C. (See Miller, Royal R., assignor.)
Darden, George A., Dallas, Tex. Draft attachment for carriages and wagons. No. 1,011,037; Dec. 5; Sp. p. 1389; Gaz. vol. 173; p. 221.
Darden, Robert L., Juliette, Ga. Match-receptacle. No. 998,235; July 18; Sp. p. 3553; Gaz. vol. 168; p. 637.
Dare, William K., Brooklyn, N. Y. Sash-lock. No. 987,285; Mar. 21; Sp. p. 3228; Gaz. vol. 164; p. 582.
Dargin, Ernest P., Denver, Colo. Pebble or ball mill. No. 981,983; Jan. 17; Sp. p. 4060; Gaz. vol. 162; p. 677.
Dargin, Ernest P., Denver, Colo. Stamp-mill. No. 985,012; Feb. 21; Sp. p. 3760; Gaz. vol. 163; p. 663.
Darius, Dudley W., Dresden, Germany. Combination-lock. No. 1,012,991; Dec. 26; Sp. p. 5791; Gaz. vol. 173; p. 1013.
Dark, Henry, Philadelphia, Pa. Massaging apparatus. No. 1,011,167; Dec. 12; Sp p. 1730; Gaz. vol. 173; p. 302.
Darley, William S., Chicago, Ill. Gas-heated sad-iron. No. 1,000,497; Aug. 15; Sp. p. 2742; Gaz. vol. 169; p. 508.
Darling, Albert W. (See Persons, Crabtree, and Darling.)
Darling, James D., Philadelphia, Pa., assignor to Keystone Trading Company. Manufacture of chewing-gum. No. 1,005,001; Oct. 3; Sp. p. 950; Gaz. vol. 171; p. 158.
Darling, Joseph, Chicora, Pa. Well-drilling apparatus. No. 1,011,324; Dec. 12; Sp. p. 2104; Gaz. vol. 173; p. 359.
Darlington, Benjamin. (See Call, Joseph M., assignor.)
Darlington, Benjamin, and J. M. Call, Vaughan, W. Va.; said Call assignor to said Darlington. Gas-machine. No. 985,662; Feb. 28; Sp. p. 5210; Gaz. vol. 163; p. 921.
Darlington, Frederic W., Philadelphia, Pa. Apparatus for controlling motors. No. 1,005,420; Oct. 10; Sp. p. 1841; Gaz. vol. 171; p. 328.
Darms, John M. G., Buffalo, N. Y. Toilet-pad. No. 992,173; May 16; Sp. p. 2853; Gaz. vol. 166; p. 531.
Darnall, Carl R., Washington, D. C. Water and sewage purification. No. 1,007,542; Oct. 31; Sp. p. 6568; Gaz. vol. 171; p. 1187.
Darnall, Carl R., Washington, D. C. Purifying water and sewage. No. 1,007,647; Oct. 31; Sp. p. 6799; Gaz. vol. 171; p. 1222.
Darnold, Edgar E., Kansas City, Mo. Boiler-flue cleaner. No. 1,005,167; Oct. 10; Sp. p. 1270; Gaz. vol. 171; p. 237.
Darrah, William A. (See Lee and Darrah.)
Darrow, Charles W., Glenwood Springs, Colo. Pump. No. 998,472; July 18; Sp. p. 4070; Gaz. vol. 168; p. 721.
Darrow, Clarence E., Fairbury, Nebr. Automatic controlling device for aeroplanes. No. 1,007,926; Nov. 7; Sp. p. 634; Gaz. vol. 172; p. 98.
Darrow, Edward N., Chicago, Ill. Gyrocycle. No. 991,485; May 9; Sp. p. 1405; Gaz. vol. 166; p. 265.
Darrow, Frank H., Albion, Mich. Metallic boat. No. 1,000,786; Aug. 15; Sp. p. 3397; Gaz. vol. 169; p. 610.
Darst, Jacob A., and M. Brittain, Caldwell, Kans. Hose-holder. No. 996,464; June 27; Sp. p. 5217; Gaz. vol. 167; p. 914.
Darst, Jacob A., and M. Brittain, Caldwell, Kans. Hydrocarbon-burner. No. 999,098; July 25; Sp. p. 5472; Gaz. vol. 168; p. 973.
Dart, Elmer J. (See Haskell and Dart.)
Darwin, Harry, deceased, Birmingham, England; K. Darwin, administratrix. Incandescent gas-burner. No. 1,006,442; Oct. 17; Sp. p. 4125; Gaz. vol. 171; p. 718.
Darwin, Kate, administratrix. (See Darwin, Harry.)
Dash, William L., South Tottenham, England. Boot and shoe. No. 989,572; Apr. 18; Sp. p. 2740; Gaz. vol. 165; p. 489.
Dasher, Olin G., Marlow, Ga. Evaporating-pan. No. 1,007,072; Oct. 31; Sp. p. 5548; Gaz. vol. 171; p. 1021.
Dassler, John C., Leavenworth, Kans. Camera-shutter. No. 983,027; Jan. 31; Sp. p. 6274; Gaz. vol. 162; p. 1091.
Dassy, Ferdinand, Rouen, France. Apparatus for the removal of household or other refuse. No. 1,005,168; Oct. 10; Sp. p. 1272; Gaz. vol. 171; p. 237.
Daubenspeck, Peter E., Marietta, Ohio, assignor to Parkersburg Steel Baler Company, Parkersburg, W. Va. Baling-press. No. 1,002,651; Sept. 5; Sp. p. 1040; Gaz. vol. 170; p. 156.
Daudelin, Joseph N., St. Hyacinthe, Quebec, assignor to H. Dussault, Levis, Canada. Solder. No. 989,573; Apr. 18; Sp. p. 2740; Gaz. vol. 165; p. 489.
Dauernheim, Philip J. (See McLoon, Patrick, assignor.)

Alphabetical list of patentees—Continued.

Daugherty, Giles H., Chico, Oreg. Divider for mowing and reaping machines. No. 1,005,169; Oct. 10; Sp. p. 1274; Gaz. vol. 171; p. 237.
Daugherty, James D., Kittanning, Pa., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 997,441; July 11; Sp. p. 1752; Gaz. vol. 168; p. 318.
Daugherty, James D., Kittanning, Pa., assignor to Union Typewriter Company. Type-writing machine. No. 1,011,924; Dec. 19; Sp. p. 3436; Gaz. vol. 173; p. 602.
Daugherty, James D., Kittanning, Pa., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,012,062; Dec. 19; Sp. p. 3748; Gaz. vol. 173; p. 651.
Daugherty, James D., Kittanning, Pa., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,012,128; Dec. 19; Sp. p. 3906; Gaz. vol. 173; p. 676.
Daugherty, Reil, Harrisburg, Pa. Drill-gage. No. 1,002,502; Sept. 5; Sp. p. 720; Gaz. vol. 170; p. 106.
Däuker, Wilhelm, Warsaw, Russia. Apparatus for determining the shape of a foot. No. 996,910; July 4; Sp. p. 649; Gaz. vol. 168; p. 105.
Daum, Albert F., Pittsburgh, Pa. Fuse. No. 1,005,517; Oct. 10; Sp. p. 2060; Gaz. vol. 171; p. 362.
Daum, Albert F., Pittsburgh, Pa. Cartridge-fuse. (Reissue.) No. 13,312; Nov. 14; Sp. p. 3129; Gaz. vol. 172; p. 521.
Daum, Elmer B., West Orange, N. J. Combined shade-bracket and hanger-arm. No. 1,001,254; Aug. 22; Sp. p. 4417; Gaz. vol. 169; p. 802.
Dauner, Louis F. (See Dauner, William J. and L. F.) (Reissue.)
Dauner, William J. and L. F., Sutton, Nebr. Feeding mechanism for corn-shellers. (Reissue.) No. 13,209; Feb. 21; Sp. p. 3967; Gaz. vol. 163; p. 701.
Daus, Louis A., Evansville, Ind. Support for awning-rollers. No. 997,491; July 11; Sp. p. 1848; Gaz. vol. 168; p. 333.
Dauscha, Bruno R. (See Pestel, Arthur, assignor.)
Davenport, Frank B., Wilkes-Barre, Pa. Skirt-marking device. No. 1,007,431; Oct. 31; Sp. p. 6334; Gaz. vol. 171; p. 1150.
Davenport, Harry L., Altoona, Pa. Surgical operating-table. No. 1,011,038; Dec. 5; Sp. p. 1390; Gaz. vol. 173; p. 221.
Davenport, Henry M., Spokane, Wash. Display-case. No. 1,012,605; Dec. 26; Sp. p. 4887; Gaz. vol. 173; p. 880.
Davenport Ice Chipping Machine Company. (See Hess, Frank, assignor.)
Davenport, Thomas J. W. C. (See Allport and Davenport.)
Davey, Edwin, *et al.* (See Banta, Milton L., assignor.)
Davey, John, New York, N. Y. Wall construction. No. 985,663; Feb. 28; Sp. p. 5212; Gaz. vol. 163; p. 921.
David, Charles L., Rheims, France. Tensioning means. No. 993,963; May 30; Sp. p. 6704; Gaz. vol. 166; p. 1206.
David, Joseph, Chicago, Ill. Hair-pin. No. 1,009,029; Nov. 14; Sp. p. 3124; Gaz. vol. 172; p. 520.
David, Louis E. F., Paris, France. Classifying-index with movable tablets carrying cards. No. 1,005,614; Oct. 10; Sp. p. 2304; Gaz. vol. 171; p. 397.
David, Otto. (See Alten and David.)
Davids, August H., Hamburg, Germany. Disinfecting apparatus. No. 994,824; June 13; Sp. p. 1609; Gaz. vol. 167; p. 290.
Davidsen, Meyer J., Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Grinding-mill. No. 983,028; Jan. 31; Sp. p. 6275; Gaz. vol. 162; p. 1091.
Davidson, Alexander H., Colma, and S. Sundelius, San Francisco, Cal. Cremation-furnace. No. 1,007,543; Oct. 31; Sp. p. 6573; Gaz. vol. 171; p. 1188.
Davidson, Ambrose V., Canton, Ohio. Grate. No. 1,001,361; Aug. 22; Sp. p. 4667; Gaz. vol. 169; p. 842.
Davidson, Arthur C., assignor to E. S. Woods, Chicago, Ill. Bearing. No. 1,003,960; Sept. 19; Sp. p. 3881; Gaz. vol. 170; p. 681.
Davidson, Edgar C., Vieques, Porto Rico. Non-refillable bottle. No. 1,010,868; Dec. 5; Sp. p. 1051; Gaz. vol. 173; p. 164.
Davidson, Edward M., New York, N. Y., assignor to Pyrene Manufacturing Co. Compound for extinguishing fires. No. 1,010,869; Dec. 5; Sp. p. 1052; Gaz. vol. 173; p. 164.
Davidson, Edward M., New York, N. Y., assignor to Pyrene Manufacturing Company. Extinguishing fires. No. 1,010,870; Dec. 5; Sp. p. 1054; Gaz. vol. 173; p. 164.
Davidson, Harry C., New York, N. Y. Puzzle. No. 993,581; May 30; Sp. p. 5903; Gaz. vol. 166; p. 1075.
Davidson, John, Pendleton, England. Valve-gear. No. 1,008,121; Nov. 7; Sp. p. 1017; Gaz. vol. 172; p. 165.
Davidson, John, Pendleton, and W. O. Larmuth, Salford, England. Steam-trap. No. 1,008,120; Nov. 7; Sp. p. 1016; Gaz. vol. 172; p. 164.
Davidson, John, Jr., Chicago, Ill. Apparatus for supporting train-pipes. No. 985,149; Feb. 28; Sp. p. 4089; Gaz. vol. 163; p. 745.
Davidson, Nils O., Macoun, Saskatchewan, Canada. Boat attachment for drawing seines from the water. No. 981,918; Jan. 17; Sp. p. 3899; Gaz. vol. 162; p. 655.
Davidson, Samuel C., Belfast, Ireland. Tea-leaf-rolling machine. No. 980,213; Jan. 3; Sp. p. 72; Gaz. vol. 162; p. 14.
Davidson, Thomas, Gateshead, England. Manufacturing glass flower-blocks. No. 985,785; Mar. 7; Sp. p. 36; Gaz. vol. 164; p. 8.
Davidter, Otto H., Manchester, Mich. Wagon-rack standard. No. 1,000,787; Aug. 15; Sp. p. 3399; Gaz. vol. 169; p. 610.
Davie, Robert C., Woonsocket, R. I. Adjustable curtain-hanging fixture. No. 1,006,183; Oct. 17; Sp. p. 3555; Gaz. vol. 171; p. 629.
Davies, Charles H., Aurora, Ill. Flue-cleaner. No. 1,010,028; Nov. 28; Sp. p. 5277; Gaz. vol. 172; p. 946.
Davies, Charles W. T., New York, N. Y. Nethergarment. No. 996,005; June 20; Sp. p. 4147; Gaz. vol. 167; p. 722.
Davies, Charles W. T., New York, N. Y. Necktie. No. 997,045; July 4; Sp. p. 967; Gaz. vol. 168; p. 154.
Davies, Charles W. T., New York, N. Y. Buttonhole for wearing-apparel. No. 997,906; July 11; Sp. p. 2801; Gaz. vol. 168; p. 479.
Davies, Charles W. T., assignor to himself and T. J. McGuire, New York, N. Y. Retainer-necktie. No. 984,751; Feb. 21; Sp. p. 3264; Gaz. vol. 163; p. 576.
Davies, David P., Racine, assignor to Allis-Chalmers Company, Milwaukee, Wis. Valve-gear. No. 995,229; June 13; Sp. p. 2452; Gaz. vol. 167; p. 424.
Davies, Eben P., Scranton, Pa. Nut-lock. No. 1,007,772; Nov. 7; Sp. p. 269; Gaz. vol. 172; p. 43.
Davies, George L., *et al.* (See Grote, Ludwig, assignor.)
Davies, Henry W. (See Stevenson, Virley, assignor.)
Davies, James. (See Lamb and Davies.)
Davies, Joseph B., Melbourne, and H. Bell, South Melbourne, Victoria, Australia. Machine for forming enlarged or extended heads upon nails, &c. No. 1,009,484; Nov. 21; Sp. p. 4160; Gaz. vol. 172; p. 717.
Davies, Nelson E., San Francisco, Cal. Internal-combustion engine. No. 986,552; Mar. 14; Sp. p. 1693; Gaz. vol. 164; p. 300.
Davies, Robert. (See Katz, Louis, assignor.)
Davies, Rowland W., Pittsburg, Pa. Siphoning fluid. No. 987,968; Mar. 28; Sp. p. 4740; Gaz. vol. 164; p. 845.
Davies, William T. (See Slaybaugh, William H., assignor.)
Davin, William E., McKees Rocks, assignor of one-half to H. Bartley, Pittsburgh, Pa. Bond-wire-retaining nut-lock. No. 1,008,959; Nov. 14; Sp. p. 2965; Gaz. vol. 172; p. 495.
Davis, Abraham, Brooklyn, N. Y. Bag-holder. No. 993,964; May 30; Sp. p. 6705; Gaz. vol. 166; p. 1206.
Davis, Albert G., and M. Flanders, Pueblo, Colo. Nut-lock. No. 997,757; July 11; Sp. p. 2452; Gaz. vol. 168; p. 428.
Davis, Andrew. (See Martin, Perry J., assignor.)
Davis, Arthur, Evanston, Ill., assignor to Marshall Field & Company. Trunk. No. 1,012,606; Dec. 26; Sp. p. 4888; Gaz. vol. 173; p. 880.
Davis, Asa W., Derby, Conn. Machine for making brine. No. 990,476; Apr. 25; Sp. p. 4730; Gaz. vol. 165; p. 831.
Davis-Bournonville Acetylene Development Company. (See Gessert and Whitford, assignors.)
Davis, Burt L., *et al.* (See Tank, Henry P., assignor.)
Davis, C. Schuyler, *et al.* (See Selden, Arthur R., assignor.)
Davis, Charles A. (See Andrews, Harry I, assignor.)
Davis, Charles C., Philadelphia, Pa. Machine for making annular structures. No. 1,012,992; Dec. 26; Sp. p. 5793; Gaz. vol. 173; p. 1013.
Davis, Charles F., Providence R. I., assignor to Automatic Envelope Sealing and Stamping Machine Company. Sealing and stamping machine. No. 1,011,887; Dec. 12; Sp. p. 3330; Gaz. vol. 173; p. 554.
Davis, Charles F., Tallapoosa, Ga., assignor of one-eighth to J. N. Jones and one-eighth to F. D. Jones, Woodward, Ala. Amalgamator. No. 1,005,105; Oct. 3; Sp. p. 1137; Gaz. vol. 171; p. 192.
Davis, Charles H., Kern, Cal., and J. M. Davis, Lima, Ohio. Music-leaf turner. No. 998,842; July 25; Sp. p. 4906; Gaz. vol. 168; p. 883.
Davis, Charles J., Chicago, Ill., assignor of one-half to J. Stamp, Liberal, Kans. Dust-pan. No. 984,356; Feb. 14; Sp. p. 2388; Gaz. vol. 163; p. 404.
Davis, Charles L., Detroit, Mich. Tracker-board. No. 998,877; July 25; Sp. p. 4995; Gaz. vol. 168; p. 897.
Davis, Charles L., Detroit, Mich. Envelop-feeder. No. 1,005,518; Oct. 10; Sp. p. 2062; Gaz. vol. 171; p. 362.
Davis, Charles S., Philadelphia, Pa. Split pulley. No. 1,006,467; Oct. 24; Sp. p. 4200; Gaz. vol. 171; p. 757.
Davis, Charles W., Montreal, Quebec, Canada. Type-bar connection for type-writers and the like. No. 993,582; May 30; Sp. p. 5905; Gaz. vol. 166; p. 1076.
Davis, Charles W., Grover Hill, Ohio. Rein-holder. No. 998,473; July 18; Sp. p. 4072; Gaz. vol. 168; p. 722.
Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburg, Pa. Terminal for electric cables. No. 990,234; Apr. 25; Sp. p. 4167; Gaz. vol. 165; p. 745.
Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburg, Pa. Junction-box structure for electrical conductors. No. 990,235; Apr. 25; Sp. p. 4168; Gaz. vol. 165; p. 745.

Alphabetical list of patentees—Continued.

Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Terminal for electrical cables. No. 1,005,002; Oct. 3; Sp. p. 951; Gaz. vol. 171; p. 158.
Davis, Charles W., Edgeworth, assignor to Standard Underground Cable Company, Pittsburgh, Pa. Terminal structure for electrical cables. No. 1,005,003; Oct. 3; Sp. p. 953; Gaz. vol. 171; p. 158.
Davis, Charles W., Montreal, and G. W. Davis, Westmount, Quebec, Canada. Carriage-stops for type-writers. No. 1,002,042; Aug. 29; Sp. p. 6089; Gaz. vol. 169; p. 1100.
Davis, Claude B. (See Andrews and Broski, assignors.)
Davis, Claude B., and J. H. Smith, assignors to The Non-Refillable Bottle Company of America Inc., Richmond, Va. Non-refillable bottle. No. 988,550; Apr. 4; Sp. p. 550; Gaz. vol. 165; p. 88.
Davis, Clawson, assignor of two-thirds to J. S. and J. R. Smith, Ypsilanti, Mich. Fishing-bob. No. 992,341; May 16; Sp. p. 3268; Gaz. vol. 166; p. 590.
Davis, Cleland, U. S. Navy. Projectile for attacking face-hardened armor. No. 997,758; July 11; Sp. p. 2453; Gaz. vol. 168; p. 428.
Davis, Cleveland G., Manistee, Mich. Surgical needle. No. 989,234; Apr. 11; Sp. p. 1985; Gaz. vol. 165; p. 341.
Davis, Cloyd, Mineola, N. Y. Making pavements. No. 984,801; Feb. 21; Sp. p. 3364; Gaz. vol. 163; p. 594.
Davis, Daniel G., and H. C. Meyerhoffer, Salt Lake City, Utah. Window-cleaner. No. 983,269; Feb. 7; Sp. p. 19; Gaz. vol. 163; p. 6.
Davis, David. (See White, Byron R., assignor.)
Davis, David M., Harrison, N. J. Needle or pin point grinding machine. No. 992,859; May 23; Sp. p. 4348; Gaz. vol. 166; p. 799.
Davis, Don D., Saginaw, Mich. Seal. No. 994,103; May 30; Sp. p. 6994; Gaz. vol. 166; p. 1254.
Davis, Ed J., *et al.* (See Farley, Alfred C., assignor.)
Davis, Edward B., Chicago, Ill., assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Apparatus for drying cloth. No. 981,621; Jan. 17; Sp. p. 3251; Gaz. vol. 162; p. 552.
Davis, Edward S., Jersey City, N. J., assignor to Rockwell Furnace Company. Annealing-furnace. No. 1,007,021; Oct. 24; Sp. p. 5414; Gaz. vol. 171; p. 949.
Davis, Edward S., Jersey City, N. J., assignor to Rockwell Furnace Company. Rotary furnace. No. 1,010,728; Dec. 5; Sp. p. 729; Gaz. vol. 173; p. 115.
Davis, Edwin F., Corning, N. Y. Rail-support. No. 1,000,498; Aug. 15; Sp. p. 2744; Gaz. vol. 169; p. 508.
Davis, Edwin K. (See Gamble and Davis.)
Davis, Edwin O., Paducah, Ky. Trimming attachment for machines for uniting knit fabrics. No. 992,116; May 9; Sp. p. 2708; Gaz. vol. 166; p. 479.
Davis, Elmer E., assignor of one-half to W. F. Spencer, Jr., Muncie, Ind. Machine for making molds. No. 1,006,443; Oct. 17; Sp. p. 4129; Gaz. vol. 171; p. 719.
Davis, Ernest L. J., Pittsburg, Pa. Cushioned wheel. No. 980,611; Jan. 3; Sp. p. 935; Gaz. vol. 162; p. 151.
Davis, Ernest L. J., Pittsburg, Pa. Lamp-burner. No. 984,357; Feb. 14; Sp. p. 2390; Gaz. vol. 163; p. 405.
Davis, Ernest W., Chicago, Ill. Holder for brooms, mops, &c. No. 991,486; May 9; Sp. p. 1409; Gaz. vol. 166; p. 265.
Davis, Ernest W., Chicago, Ill. Moving-picture device. No. 1,004,382; Sept. 26; Sp. p. 4833; Gaz. vol. 170; p. 853.
Davis, Ernest W., Chicago, Ill. Automatic electric switch. No. 1,004,383; Sept. 26; Sp. p. 4834; Gaz. vol. 170; p. 853.
Davis, Ernest W., Chicago, Ill. Self-checking registering-turnstile. No. 1,007,927; Nov. 7; Sp. p. 635; Gaz. vol. 172; p. 98.
Davis, Eugene H. (See Lacroix, Joseph D., assignor.)
Davis, Frank, Atlanta, Ga. Hose-coupling. No. 994,723; June 13; Sp. p. 1364; Gaz. vol. 167; p. 255.
Davis, Frank R. and L. H., assignors of one-half to E. W. McIntire, Washington, D. C. Horse-boot. No. 996,566; June 27; Sp. p. 5409; Gaz. vol. 167; p. 946.
Davis, Fred F., St. Louis, and C. G. Holt, Webster Groves, assignors to United States Pump and Tank Company, St. Louis, Mo. Measuring-pump. No. 998,281; July 18; Sp. p. 3674; Gaz. vol. 168; p. 655.
Davis, Frederick, Wiswell, near Whalley, England, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Calico-printing. No. 984,545; Feb. 21; Sp. p. 2814; Gaz. vol. 163; p. 503.
Davis & Furber Machine Company. (See Rundlett and White, assignors.)
Davis, G. J., *et al.* (See Morris, George A., assignor.)
Davis, George H., Brooklyn, N. Y. Machine for forming shoe-laces. No. 989,838; Apr. 18; Sp. p. 3322; Gaz. vol. 165; p. 580.
Davis, George H., Worcester, Mass., assignor, by mesne assignments, to Livermore Pay Station Company, Portland, Me. Telephone toll or pay station. No. 1,009,134; Nov. 21; Sp. p. 3345; Gaz. vol. 172; p. 592.
Davis, George M., *et al.* (See Cochran, Edward A., assignor.)
Davis, George P., Detroit, Mich. Gas-producer. No. 980,923; Jan. 10; Sp. p. 1657; Gaz. vol. 162; p. 286.
Davis, George W. (See Davis, Charles W. and G. W.)
Davis, George W. (See Stokes and Davis.)
Davis, George W., Westmount, Quebec, Canada. Back-spacer for type-writers. No. 988,551; Apr. 4; Sp. p. 552; Gaz. vol. 165; p. 89.
Davis, George W., Westmount, Quebec, Canada. Tabulator mechanism for type-writers. No. 993,583; May 30; Sp. p. 5906; Gaz. vol. 166; p. 1076.
Davis, George W., Westmount, Quebec, Canada. Line-spacing mechanism for type-writers. No. 993,584; May 30; Sp. p. 5909; Gaz. vol. 166; p. 1077.
Davis, George W., Westmount, Quebec, Canada. Line-lock for type-writers. No. 997,374; July 11; Sp. p. 1633; Gaz. vol. 168; p. 296.
Davis, George W., Westmount, Quebec, Canada. Ribbon-reverse mechanism for type-writers. No. 1,003,345; Sept. 12; Sp. p. 2539; Gaz. vol. 170; p. 437.
Davis, George W., Montreal, Quebec, Canada. Escapement mechanism for type-writers. No. 993,585; May 30; Sp. 5911; Gaz. vol. 166; p. 1077.
Davis, George W., Blossom, and A. T. Shipman, Honey Grove, Tex. Fireproof flue. No. 990,477; Apr. 25; Sp. p. 4730; Gaz. vol. 165; p. 832.
Davis, Granville, assignor of one-fourth to V. H. Lockwood, Indianapolis, Ind. Loading mechanism. No. 1,007,928; Nov. 7; Sp. p. 637; Gaz. vol. 172; p. 98.
Davis, Guy U., Altheimer, Ark. Rail-joint. No. 996,465; June 27; Sp. p. 5218; Gaz. vol. 167; p. 915.
Davis, Harry E., Decatur, Ill. Premium-book. No. 988,552; Apr. 4; Sp. p. 553; Gaz. vol. 165; p. 89.
Davis, Harry I., Beaver Creek, Minn. Target-trap. No. 1,012,526; Dec. 19; Sp. p. 4710; Gaz. vol. 173; p. 809.
Davis, Harry P., Pittsburgh, and F. W. Harris, Wilkinsburg, assignors, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Explosion circuit-breaker. No. 1,009,386; Nov. 21; Sp. p. 3953; Gaz. vol. 172; p. 683.
Davis, Henry F. (See Cree and Davis.)
Davis, Herbert S., and J. C. Hayden, Port Hope, Ontario, Canada. Joint for arbors. No. 1,000,238; Aug. 8; Sp. p. 2166; Gaz. vol. 169; p. 386.
Davis, Herman, New Orleans, La. Combined lock and latch. No. 981,843; Jan. 17; Sp. p. 3719; Gaz. vol. 162; p. 629.
Davis, Horwich & Steinman. (See Horwich, Henry J., assignor.)
Davis, Irvin W., Milwaukee, Wis. Door-hanger. No. 982,257; Jan. 24; Sp. p. 4604; Gaz. vol. 162; p. 799.
Davis, Isaac, Las Vegas, N. Mex. Egg-tester. No. 993,965; May 30; Sp. p. 6706; Gaz. vol. 166; p. 1207.
Davis, Isaac A., assignor of one-half to H. P. Hansen, Grand Island, Nebr. Locomotive ash-pan. No. 1,003,992; Sept. 26; Sp. p. 3966; Gaz. vol. 170; p. 718.
Davis-Jackson Supply Company. (See Jackson, Louis F., assignor.)
Davis, James F., Camden, N. J. Tag-attaching device. No. 1,008,704; Nov. 14; Sp. p. 2434; Gaz. vol. 172; p. 411.
Davis, James H., assignor to American Hame Mfg. Co., New Albany, Ind. Hame attachment. No. 1,004,750; Oct. 3; Sp. p. 439; Gaz. vol. 171; p. 73.
Davis, James W. (See Wright, Scott W., assignor.)
Davis, James W., Cincinnati, Ohio. Holder for faucet-pipes. No. 1,012,063; Dec. 19; Sp. p. 3756; Gaz. vol. 173; p. 651.
Davis, Jasper N., Denver, Colo. Electric-vehicle-charging wall-socket and plug. No. 981,622; Jan. 17; Sp. p. 5254; Gaz. vol. 162; p. 552.
Davis, John, Laramie, Wyo. Dehydrating sodium-sulfate crystals. No. 990,116; Apr. 18; Sp. p. 3892; Gaz. vol. 165; p. 672.
Davis, John, Aurora, Ill. Cable-carrier. No. 1,007,432; Oct. 31; Sp. p. 6335; Gaz. vol. 171; p. 1150.
Davis, John B., assignor to The American Oil Pump & Tank Co., Dayton, Ohio. Apparatus for separating water from oils. No. 995,402; June 13; Sp. p. 2834; Gaz. vol. 167; p. 482.
Davis, John B., assignor to The American Oil Pump and Tank Company, Dayton, Ohio. Oil-pump. No. 1,000,965; Aug. 15; Sp. p. 3760; Gaz. vol. 169; p. 672.
Davis, John E., East Bend, N. C. Wheel-fastener. No. 982,413; Jan. 24; Sp. p. 4936; Gaz. vol. 162; p. 855.
Davis, John E., assignor to Davis Safe & Lock Company, Portland, Oreg. Fireproofing for safes and vault-doors. No. 981,247; Jan. 10; Sp. p. 2472; Gaz. vol. 162; p. 402.
Davis, John F., Freeport, Me. Shoe. No. 989,950; Apr. 18; Sp. p. 3566; Gaz. vol. 165; p. 618.
Davis, John F., and P. Lestrade, New Orleans, La. Combined cigar cutter, lighter, and advertising device. No. 995,328; June 13; Sp. p. 2653; Gaz. vol. 167; p. 456.
Davis, John H., Chicago, Ill. Butter-compound mixer. No. 984,079; Feb. 14; Sp. p. 1807; Gaz. vol. 163; p. 310.
Davis, John H., St. Louis, Mo., assignor of one-half to R. L. Piepmeier, Coffeyville, Kans. Self-heating sad-iron. No. 985,326; Feb. 28; Sp. p. 4480; Gaz. vol. 163; p. 806.
Davis, John H., Brooklyn, assignor to Momentum Automatic Brake Co., New York, N. Y. Means for applying vehicle-brakes. No. 1,008,792; Nov. 14; Sp. p. 2631; Gaz. vol. 172; p. 441.
Davis, John O. (See Cardwell, Addison A., assignor.)
Davis, John T., Oakland, Cal. Still. No. 988,445; Apr. 4; Sp. p. 335; Gaz. vol. 165; p. 54.

Alphabetical list of patentees—Continued.

Davis, John T., Argenta, Ark. Lubricator for journal-bearings. No. 1,012,333; Dec. 19; Sp. p. 4347; Gaz. vol. 173; p. 745.
Davis, John T., and J. H. Allen, Argenta, Ark.; said Allen assignor to said Davis. Vehicle-axle. No. 1,011,325; Dec. 12; Sp. p. 2108; Gaz. vol. 173; p. 359.
Davis, Joseph. (See Rausch and Davis.)
Davis, Joseph M. (See Davis, Charles H. and J. M.)
Davis, Leonard H. (See Davis, Frank R. and L. H.)
Davis, Leslie W. (See Hanvey and Davis.)
Davis, Linford J., Battle Creek, Mich. Skirt-gage. No. 1,003,239; Sept. 12; Sp. p. 2327; Gaz. vol. 170; p. 399.
Davis, Luckey C., Mound Bayou, Miss. Safety whip-holder. No. 982,258; Jan. 24; Sp. p. 4606; Gaz. vol. 162; p. 800.
Davis, Merrill, assignor to J. B. Wise, Watertown, N. Y. Portable furnace. No. 1,008,406; Nov. 14; Sp. p. 1748; Gaz. vol. 172; p. 306.
Davis, Merrell L. (See Strong, Dan D., assignor.)
Davis, Merton D., St. Ninans, Carshalton, England. Cigar-tube, cigarette-tube, or the like. No. 999,155; July 25; Sp. p. 5570; Gaz. vol. 168; p. 990.
Davis, Michael J., assignor of forty-nine one-hundredths to P. Jones, Chicago, Ill. Window-cleaning attachment. No. 991,140; May 2; Sp. p. 663; Gaz. vol. 166; p. 113.
Davis, Nathan H., Philadelphia, Pa. Apparatus for forming trusses or trussed beams. No. 1,012,334; Dec. 19; Sp. p. 4348; Gaz. vol. 173; p. 745.
Davis, Nathan L., Adairsville, Ga. Seed-cotton cleaner and rock-catcher. No. 1,003,884; Sept. 19; Sp. p. 3674; Gaz. vol. 170; p. 653.
Davis, Oliver, Salt Lake City, Utah. Safety-coupling for freight-cars. No. 987,118; Mar. 21; Sp. p. 2831; Gaz. vol. 164; p. 521.
Davis, R Fred, assignor of one-half to R. Davis, Albion, Mich. Signal for doors. No. 984,124; Feb. 14; Sp. p. 1889; Gaz. vol. 163; p. 324.
Davis, Ralph, Sidney, Ohio. Printing-press. No. 993,966; May 30; Sp. p. 6707; Gaz. vol. 166; p. 1207.
Davis, Ralph W., Chicago, Ill. Tent. No. 988,446; Apr. 4; Sp. p. 337; Gaz. vol. 165; p. 54.
Davis, Richard A., Lexington, Miss. Egg-tester. No. 996,466; June 27; Sp. p. 5218; Gaz. vol. 167; p. 915.
Davis, Robert J., Chicago, Ill. Damper-regulator. No. 990,236; Apr. 25; Sp. p. 4171; Gaz. vol. 165; p. 746.
Davis, Robert J., Chicago, Ill. Damper-regulator. No. 990,237; Apr. 25; Sp. p. 4183; Gaz. vol. 165; p. 746.
Davis, Romondo. (See Davis, R Fred, assignor.)
Davis Safe & Lock Company. (See Davis, John E., assignor.)
Davis, Samuel T., Philadelphia, Pa. Plant-setting machine. No. 986,145; Mar. 7; Sp. p. 806; Gaz. vol. 164; p. 131.
Davis, Schuyler, *et al.* (See Selden, Arthur R., assignor.)
Davis Sewing Machine Company, The. (See Lester, Harry B., assignor.)
Davis, Sidney C., Southwark, assignor of one-half to The Amalgamated Press, Limited, London, England. Printing-machine. No. 1,007,433; Oct. 31; Sp. p. 6336; Gaz. vol. 171; p. 1150.
Davis, Solomon, New York, N. Y. Sewing-machine attachment. No. 996,467; June 27; Sp. p. 5220; Gaz. vol. 167; p. 915.
Davis, Stephen, Montreal, Quebec, Canada. Knife-guard for planers and the like. No. 985,786; Mar. 7; Sp. p. 37; Gaz. vol. 164; p. 9.
Davis, Stephen A., assignor to National Sweeper Company, Newark, N. J. Carpet-sweeper. No. 1,010,871; Dec. 5; Sp. p. 1055; Gaz. vol 173; p. 165.
Davis, Stephen G., Georgetown, Ill. Railway-crossing. No. 983,982; Feb. 14; Sp. p. 1593; Gaz. vol. 163; p. 277.
Davis, Theodore, Birmingham, Ala., assignor, by mesne assignments, to J. W. Skinner and A. W. Miller. Garment-supporter. No. 1,006,066; Oct. 17; Sp. p. 3280; Gaz. vol. 171; p. 586.
Davis, Theresa E., Rushville, Nebr. Bracing-leg for beds, couches, and the like. No. 1,009,724; Nov. 28; Sp. p. 4640; Gaz. vol. 172; p. 843.
Davis, Thomas, Pittsburgh, Pa. Piston-ring. No. 1,004,631; Oct. 3; Sp. p. 177; Gaz. vol. 171; p. 31.
Davis, Thomas A., Findlay, Ill. Gasolene-gas generator. No. 987,438; Mar. 21; Sp. p. 3542; Gaz. vol. 164; p. 633.
Davis, Thomas G., Bay City, Mich. Drilling-machine. No. 981,071; Jan. 10; Sp. p. 2058; Gaz. vol. 162; p. 339.
Davis, Volney E. (See Widmayer and Davis.)
Davis, Wiley. (See Otto, Paul, assignor.)
Davis, William F., assignor to R. G. Peters Manufacturing Company, Grand Rapids, Mich. Arc-lamp. No. 989,698; Apr. 18; Sp. p. 3017; Gaz. vol. 165; p. 531.
Davis, William G. (See Harvie and Davis.)
Davis, William N. (See Cumming, William S., assignor.)
Davis, William T., Comstock, Mich. Governor for steam-engines. No. 1,012,611; Dec. 26; Sp. p. 4908; Gaz. vol. 173; p. 883.
Davison, Charles W., Jefferson City, Mo. Dental appliance. No. 1,001,362; Aug. 22; Sp. p. 4668; Gaz. vol. 169; p. 842.
Davison, Frederick C. (See Wernert and Davison.)
Davison, Matthew W., Dubois, Pa. Switch-operating device. No. 1,011,039; Dec. 5; Sp. p. 1392; Gaz. vol. 173; p. 222.
Davison, Matthew W., G. Kester, and J. M. Rowan, Dubois, Pa. Device for tempering glass. No. 1,000,671; Aug. 15; Sp. p. 3149; Gaz. vol. 169; p. 570.
Davison, Sidney M., Cambridge, Mass. Sound-receiving device. No. 1,002,567; Sept. 5; Sp. p. 866; Gaz. vol. 170; p. 128.
Davison, Sidney M., Cambridge, Mass. Sound-receiving device. No. 1,002,903; Sept. 12; Sp. p. 1630; Gaz. vol. 170; p. 282.
Davison, Vincent H., Goldfield, Nev. Observation-roundabout. No. 982,128; Jan. 17; Sp. p. 4345; Gaz. vol. 162; p. 725.
Davol, George K., San Francisco, Cal. Making ice. No. 988,316; Apr. 4; Sp. p. 40; Gaz. vol. 165; p. 9.
Davol Rubber Company. (See Lamont, Alexander D., assignor.)
Dawes, Augustus F., Manor Park, P. C. Olsen, Clapham Park, and A. Day, Harringay, London, England. Machine for feeding and delivering sheets of paper. No. 981,538; Jan. 10; Sp. p. 3072; Gaz. vol. 162; p. 502.
Dawes, Charles A., St. Louis, Mo. Delivery mechanism for newspaper-vending machines. No. 1,004,856; Oct. 3; Sp. p. 671; Gaz. vol. 171; p. 109.
Dawes, Edmund, *et al.* (See Dawes, Robert, assignor.)
Dawes, Robert, assignor of two-thirds to E. Dawes, Philadelphia, Pa., and E. H. Haskell, Boston, Mass. Spinning or twisting and winding machine. No. 994,576; June 6; Sp. p. 988; Gaz. vol. 167; p. 164.
Dawkins, William H., and T. G. Dorough, Royston, Ga. Road-grading machine. No. 980,612; Jan. 3; Sp. p. 937; Gaz. vol. 162; p. 152.
Dawley, Edwin P., Providence, R. I. Safety appliance for cable-railways. No. 986,807; Mar. 14; Sp. p. 2227; Gaz. vol. 164; p. 386.
Dawson, Alfred F., Milmont, Pa. Furnace-grate. No. 994,063; May 30; Sp. p. 6909; Gaz. vol. 166; p. 1241.
Dawson, Artemas L., assignor of one-half to J. M. McClintock, Devall Bluff, Ark. Feed mechanism for sewing-machines. No. 1,002,652; Sept. 5; Sp. p. 1042; Gaz. vol. 170; p. 156.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Sons & Maxim, Limited, Westminster, London, England. Firing mechanism of breech-loading guns. No. 994,702; June 6; Sp. p. 1275; Gaz. vol. 167; p. 208.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Sons & Maxim, Limited, Westminster, London, England. Firing mechanism of breech-loading guns. No. 994,703; June 6; Sp. p. 1277; Gaz. vol. 167; p. 208.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Sons & Maxim, Limited, Westminster, London, England. Firing mechanism of breech-loading guns. No. 994,704; June 6; Sp. p. 1280; Gaz. vol. 167; p. 209.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Sons & Maxim Limited, Westminster, England. Firing-gear of ordnance. No. 994,982; June 13; Sp. p. 1957; Gaz. vol. 167; p. 343.
Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Sons & Maxim Limited, Westminster, England. Firing-gear of ordnance. No. 994,983; June 13; Sp. p. 1961; Gaz. vol. 167; p. 343.
Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Sons & Maxim, Limited, Westminster, England. Firing-gear of breech-loading ordnance. No. 997,375; July 11; Sp. p. 1634; Gaz. vol. 168; p. 296.
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Sons & Maxim, Limited, Westminster, England. Ammunition hoisting and loading apparatus for ordnance. No. 996,222; June 27; Sp. p. 4657; Gaz. vol. 167; p. 831.
Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Sons & Maxim Limited, London, England. Ammunition hoisting and loading apparatus for ordnance. No. 996,567; June 27; Sp. p. 5411; Gaz. vol. 167; p. 947.
Dawson, Charles W., Dayton, Ohio. Window-shade trimmer. No. 1,001,126; Aug. 22; Sp. p. 4172; Gaz. vol. 169; p. 763.
Dawson, George H., Fort Madison, Iowa. Flange-lubricating device. No. 990,637; Apr. 25; Sp. p. 5082; Gaz. vol. 165; p. 886.
Dawson, Henry, assignor to T. Taylor Limited, Bolton, England. Warp pile fabric. No. 1,006,917; Oct. 24; Sp. p. 5213; Gaz. vol. 171; p. 916.
Dawson, Isaac L., Willard, Kans. Stalk-elevator for corn-harvesters. No. 985,573; Feb. 28; Sp. p. 5038; Gaz. vol. 163; p. 891.
Dawson, James C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Company. Loose-leaf binder. No. 988,982; Apr. 11; Sp. p. 1442; Gaz. vol. 165; p. 255.
Dawson, James C., Webster Groves, Mo., assignor to Sieber & Trussell Manufacturing Co. Loose-leaf binder. No. 992,550; May 16; Sp. p. 3708; Gaz. vol. 166; p. 664.
Dawson, James C., Webster Groves, and T. E. Heeter, St. Louis, Mo., assignors to Sieber & Trussell Manufacturing Company. Loose-leaf binder. No. 986,910; Mar. 14; Sp. p. 2453; Gaz. vol. 164; p. 424.
Dawson, James W., Yalesville, Conn. Rotary explosive-engine. No. 984,358; Feb. 14; Sp. p. 2391; Gaz. vol. 163; p. 405.

Alphabetical list of patentees—Continued.

Dawson, Joseph W. (See Wehmiller and Dawson.)
Dawson, Thomas C., Smiths Ferry, Pa. Shaft-coupling. No. 1,006,362; Oct. 17; Sp. p. 3968; Gaz. vol. 171; p. 691.
Dawson, Walter E. (See Duvall and Dawson.)
Dawson, William A., Iola, Kans. Motor-plow. No. 982,480; Jan. 24; Sp. p. 5100; Gaz. vol. 162; p. 880.
Dawson, William D., Mangum, Okla., assignor to W. B. Kennedy, Kansas City, Mo. Oil-burner. No. 1,004,384; Sept. 26; Sp. p. 4835; Gaz. vol. 170; p. 853.
Dawson, William E., and R. McAlpine, assignors of one-fourth to W. D. Southwick and one-fourth to H. J. Booth, Detroit, Mich. Alarm for cash-boxes. No. 1,002,232; Sept. 5; Sp. p. 87; Gaz. vol. 170; p. 10.
Dawson, William F., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 981,623; Jan. 17; Sp. p. 3257; Gaz. vol. 162; p. 553.
Dawson, William F., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 998,677; July 25; Sp. p. 4522; Gaz. vol. 168; p. 825.
Dawson, William T., Helena, Ark. Carbureter. No. 983,541; Feb. 7; Sp. p. 607; Gaz. vol. 163; p. 97.
Day, Abraham, Bloomfield, N. J. Ice-cutting mechanism. No. 982,040; Jan. 17; Sp. p. 4181; Gaz. vol. 162; p. 697.
Day, Albert. (See Dawes, Olsen, and Day.)
Day, Albert. (See Day, Charles H. and A.)
Day, Albert D. (See Moore, Warren, assignor.)
Day, Alfred L., Chicago, Ill. Perforator. No. 1,003,993; Sept. 26; Sp. p. 3968; Gaz. vol. 170; p. 719.
Day, Charles H. and A., Leeds, England. Packaging and wrapping machine. No. 989,574; Apr. 18; Sp. p. 2741; Gaz. vol. 165; p. 489.
Day, David T., Washington, D. C. Apparatus for treating hydrocarbon oils. No. 1,004,632; Oct. 3; Sp. p. 179; Gaz. vol. 171; p. 31.
Day, Edward, Cleveland, Ohio. Car-ventilator. No. 1,009,135; Nov. 21; Sp. p. 3350; Gaz. vol. 172; p. 592.
Day, Eugene R. (See Franz, Frank, assignor.)
Day, George F., San Francisco, Cal. Automatic water-purifier. No. 989,235; Apr. 11; Sp. p. 1986; Gaz. vol. 165; p. 341.
Day, George H., Southbridge, Mass., assignor to American Optical Company. Nose-guard for spectacles. No. 1,001,734; Aug. 29; Sp. p. 5412; Gaz. vol. 169; p. 997.
Day, George H., assignor to American Optical Company, Southbridge, Mass. Swaging-machine. No. 1,006,832; Oct. 24; Sp. p. 5023; Gaz. vol. 171; p. 887.
Day, John J., *et al.* (See Chartrand, Jean B., assignor.)
Day, John J., Montreal, Quebec, Canada. Flying-machine. No. 1,003,885; Sept. 19; Sp. p. 3677; Gaz. vol. 170; p. 654.
Day, Joseph A., New York, N. Y. Umbrella-marker. No. 991,608; May 9; Sp. p. 1686; Gaz. vol. 166; p. 309.
Day, Loren L., Manila, Philippine Islands. Attachment for type-writers. No. 1,011,416; Dec. 12; Sp. p. 2283; Gaz. vol. 173; p. 390.
Day, Louis A., assignor to J. B. Hall, Philadelphia, Pa. Fastening device for doors. No. 980,498; Jan. 3; Sp. p. 698; Gaz. vol. 162; p. 113.
Day, Mark, and A. F. Nott, Dewsbury, England. Tentering-machine for drying and stretching woven fabrics. No. 1,003,712; Sept. 19; Sp. p. 3335; Gaz. vol. 170; p. 597.
Day, Maxwell W., Schenectady, N. Y., assignor to General Electric Company. Motor-controlling device. No. 1,011,757; Dec. 12; Sp. p. 3050; Gaz. vol. 173; p. 510.
Day, Squire T., Mayfield, Ky. Skirt-marker. No. 993,226; May 23; Sp. p. 5125; Gaz. vol. 166; p. 923.
Day, Stuart A. (See Rogers and Day.)
Day Ward Company, The. (See Winfield, William C., assignor.)
Day, William A., assignor of one-half to V. I. Bradway, Bellingham, Wash. Combination hammer and nail-puller. No. 1,012,527; Dec. 19; Sp. p. 4714; Gaz. vol. 173; p. 810.
Day, William P., Cleveland, Ohio. Railway-rail support. No. 999,966; Aug. 8; Sp. p. 1548; Gaz. vol. 169; p. 292.
Day, William P., assignor to The International Steel Tie Co., Cleveland, Ohio. Rail-support. No. 1,000,329; Aug. 8; Sp. p. 2347; Gaz. vol. 169; p. 416.
Day, William W., Washington, D. C. Collection-indicator for mail-boxes. No. 1,003,436; Sept. 19; Sp. p. 2722; Gaz. vol. 170; p. 499.
Dayton, Charles E., Hartford, Conn. Wind-actuated display device. No. 983,608; Feb. 7; Sp. p. 763; Gaz. vol. 163; p. 120.
Dayton, Clyde W., Chatsworth, Cal. Ripening extracted honey. No. 1,000,239; Aug. 8; Sp. p. 2168; Gaz. vol. 169; p. 386.
Dayton, Clyde W., Chatsworth, Cal. Preserving honey. No. 1,000,240; Aug. 8; Sp. p. 2170; Gaz. vol. 169; p. 386.
Dayton, James M., assignor to Progressive Manufacturing Company, Torrington, Conn. Spark-plug. No. 1,001,363; Aug. 22; Sp. p. 4670; Gaz. vol. 169; p. 843.
Dayton, James M., assignor to Progressive Manufacturing Company, Torrington, Conn. Spark-plug. No. 1,001,364; Aug. 22; Sp. p. 4671; Gaz. vol. 169; p. 843.
Dayton, James M., assignor to Progressive Manufacturing Company, Torrington, Conn. Spark-plug. No. 1,001,365; Aug. 22; Sp. p. 4673; Gaz. vol. 169; p. 843.
Dayton Pitless Scale Company, The. (See Zimmerman, Charles P., assignor.)
Dayton Rubber Manufacturing Co., The, *et al.* (See Knapp, Lee, assignor.)
Dazey, Nathan P., St. Louis, Mo. Dispenser for straws and other articles. No. 1,010,121; Nov. 28; Sp. p. 5453; Gaz. vol. 172; p. 977.
Dazin, Albert. (See Dansette and Dazin.)
De Armond, Alvin M., *et al.* (See Smith, Charles W., assignor.)
De Armond, Emory E., *et al.* (See Smith, Charles W., assignor.)
De Bataafsche Petroleum Maatschappij. (See Van Tienen, Wilhelm O. T., assignor.)
De Bay, George C., Tarentum, assignor of one-half to J. Heidenkamp, Springdale, Pa. Device for hot-polishing glass. No. 1,000,378; Aug. 15; Sp. p. 2487; Gaz. vol. 169; p. 465.
De Beers, Franklin M., Chicago, Ill. Evaporator. No. 1,006,363; Oct. 17; Sp. p. 3969; Gaz. vol. 171; p. 691.
De Bevoise, Charles R., Newark, N. J. Brassière. No. 997,046; July 4; Sp. p. 968; Gaz. vol. 168; p. 154.
De Bingham, Thomas M., London, England. Telegraphic recording apparatus. No. 997,651; July 11; Sp. p. 2203; Gaz. vol. 168; p. 390.
De Bisschop, Joseph E., New Britain, Conn. Water-level regulator. No. 980,214; Jan. 3; Sp. p. 77; Gaz. vol. 162; p. 15.
De Boer, Henry, Syracuse, N. Y. Short rail for bedsteads. No. 991,049; May 2; Sp. p. 458; Gaz. vol. 166; p. 79.
De Bord, James A., Temple, Tex. Work-holder. No. 980,924; Jan. 10; Sp. p. 1660; Gaz. vol. 162; p. 287.
De Bruyn, John C., assignor to Guarantee Machine Co., Grand Rapids, Mich. Belt-gearing for drill-presses. No. 1,008,311; Nov. 14; Sp. p. 1486; Gaz. vol. 172; p. 272.
De Cesare, Giuseppe, New York, N. Y. Lock. No. 986,808; Mar. 14; Sp. p. 2233; Gaz. vol. 164; p. 387.
De Cew, Judson A., Montreal, Quebec, Canada. Preserved wood and making same. No. 1,010,122; Nov. 28; Sp. p. 5457; Gaz. vol. 172; p. 978.
De Champ Electric Company. (See De Champ, Obed, assignor.)
De Champ, Obed, assignor to De Champ Electric Company, Everett, Mass. Fire-alarm system. No. 1,012,335; Dec. 19; Sp. p. 4353; Gaz. vol. 173; p. 746.
De Clements, George W., assignor of one-half to C. A. Coey, Chicago, Ill. Automobile-fender. No. 982,577; Jan. 24; Sp. p. 5280; Gaz. vol. 162; p. 911.
De Clercq, Louis C. A., Paris, France. Regeneration of india-rubber waste. No. 1,011,759; Dec. 12; Sp. p. 3055; Gaz. vol. 173; p. 511.
De Fernanzo, Garibaldi, Philadelphia, Pa. Pocket-lamp. No. 1,009,053; Nov. 21; Sp. p. 3179; Gaz. vol. 172; p. 564.
De Forest, Cornelius W., Covington, Ky., assignor of one-half to The Creaghead Engineering Company, Cincinnati, Ohio. Gas-burner. No. 991,141; May 2; Sp. p. 665; Gaz. vol. 166; p. 113.
De Forest, Lee, New York, N. Y., assignor to De Forest Radio Telephone Co. System for amplifying feeble electric currents. No. 995,126; June 13; Sp. p. 2244; Gaz. vol. 167; p. 391.
De Forest, Lee, New York, N. Y., assignor to De Forest Radio Telephone Co. Space telegraphy. No. 995,339; June 13; Sp. p. 2688; Gaz. vol. 167; p. 461.
De Forest, Lee, New York, N. Y., assignor to De Forest Radio Telephone Co. Space telephony. No. 1,006,635; Oct. 24; Sp. p. 4591; Gaz. vol. 171; p. 818.
De Forest, Lee, New York, N. Y., assignor to De Forest Radio Telephone Co. Space telephony. No. 1,006,636; Oct. 24; Sp. p. 4593; Gaz. vol. 171; p. 818.
De Forest Radio Telephone Co. (See De Forest, Lee, assignor.)
De Grandmont, Jules G., New York, N. Y. Feather plume. No. 1,006,959; Oct. 17; Sp. p. 3060; Gaz. vol. 171; p. 550.
De Graw, Harold M., Camden, N. J. Balancing-gear for airships. No. 987,439; Mar. 21; Sp. p. 3543; Gaz. vol. 164; p. 633.
De Grody, Martin M., St. Louis, Mo. Garbage-receptacle. No. 994,909; June 13; Sp. p. 1814; Gaz. vol. 167; p. 319.
De Groot, Perry A., Philadelphia, Pa. Folding crib. No. 993,763; May 30; Sp. p. 6319; Gaz. vol. 166; p. 1140.
De Haven, Anna W., Bridgeton, N. J. Closure for shoes. No. 996,468; June 27; Sp. p. 5221; Gaz. vol. 167; p. 915.
De Jonge, Christian, Zeeland, Mich. Silo. No. 994,133; June 6; Sp. p. 62; Gaz. vol. 167; p. 13.
De Journo, Ernest, Allentown, Pa. Dyeing apparatus. No. 1,000,589; Aug. 15; Sp. p. 2962; Gaz. vol. 169; p. 542.
De Kaiser, Isaac, Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Induction-motor. No. 990,964; May 2; Sp. p. 291; Gaz. vol. 166; p. 50.
De Kerlegand, Gueriniere, Arnaudville, La. Insect catcher and destroyer. No. 992,406; May 16; Sp. p. 3402; Gaz. vol. 166; p. 612.
De Kleist, Eugene, North Tonawanda, N. Y., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Pneumatic musical instrument. No. 983,374; Feb. 7; Sp. p. 253; Gaz. vol. 163; p. 43.

Alphabetical list of patentees—Continued.

De la Harpe, Charles, and R. Burckhardt, assignors to Dye-Works formerly L. Durand, Huguenin & Co., Basel, Switzerland. Leuco dyestuffs of the gallocyanin series and making same. No. 1,000,899; Aug. 15; Sp. p. 3618; Gaz. vol. 169; p. 650.
De la Harpe, Charles, and E. Bodmer, assignors to Dye Works formerly L. Durand, Huguenin & Co., Basel, Switzerland. Red mordant dyestuff and making same. No. 1,002,825; Sept. 12; Sp. p. 1426; Gaz. vol. 170; p. 254.
De la Harpe, Charles, and E. Bodmer, assignors to Dye Works formerly L. Durand, Huguenin & Co., Basel, Switzerland. Violet mordant dyestuff and process of making same. No. 1,003,257; Sept. 12; Sp. p. 2367; Gaz. vol. 170; p. 406.
De la Shaleri, Ernest, Pittsburg, Pa. Street-cleaning machine. No. 1,000,202; Aug. 8; Sp. p. 2095; Gaz. vol. 169; p. 373.
De La Vergne Machine Company. (See Dettmar, Ernst, assignor.)
De Lacy, Thomas H., Brooklyn, assignor to H. B. Smith, New York, N. Y. Easel attachment for display boxes, cards, pictures, and the like. No. 999,363; Aug. 1; Sp. p. 340; Gaz. vol. 169; p. 60.
De Lage, Arthur H., Alpena, Mich. Alarm for bearings. No. 988,176; Mar. 28; Sp. p. 5149; Gaz. vol. 164; p. 913.
De Lan, Surville J., Glenwood Springs, Colo. Dirigible airship. No. 1,010,483; Dec. 5; Sp. p. 185; Gaz. vol. 173; p. 30.
De Lancey, Bertram A., Joliet, Ill. Hinge-fastener. No. 1,002,373; Sept. 5; Sp. p. 457; Gaz. vol. 170; p. 64.
De Laney, John C., Watertown, Mass. Apparatus for manufacturing wooden molding. No. 999,014; July 25; Sp. p. 5307; Gaz. vol. 168; p. 944.
De Lanoy, Harry N., Nelsonville, N. Y. Ink-stick. No. 994,724; June 13; Sp. p. 1365; Gaz. vol. 167; p. 255.
De Lapp, William C., Atchison, Kans. Egg-tester. No. 988,317; Apr. 4; Sp. p. 44; Gaz. vol. 165; p. 10.
De Laski, Albert, Weehawken, and P. D. Thropp, assignors to The De Laski and Thropp Circular Woven Tire Company, Trenton, N. J. Tire-wrapping machine. No. 1,011,450; Dec. 12; Sp. p. 2349; Gaz. vol. 173; p. 402.
De Laski and Thropp Circular Woven Tire Company, The. (See De Laski and Thropp, assignors.)
De Laval Separator Company, The. (See Miller, Theodore H., assignor.)
De Laval Separator Company, The. (See Wright, Bert R., assignor.)
De Laval Steam Turbine Company. (See Guy, Albert E., assignor.)
De Laval Steam Turbine Company. (See Karlin, Halfdan B., assignor.)
De Laval Steam Turbine Company. (See Waller, Carl R., assignor.)
De Leeuw, Adolph L., Hamilton, assignor to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Milling-machine. No. 980,614; Jan. 3; Sp. p. 940; Gaz. vol. 162; p. 152.
De Lisle, Thomas C., and W. T. Phillips, Los Angeles, Cal. Machine for displaying carpets and the like. No. 1,008,245; Nov. 7; Sp. p. 1289; Gaz. vol. 172; p. 211.
De Loach, John K., Bridgeport, Ala. Variable friction driving mechanism for automobiles. No. 1,008,706; Nov. 14; Sp. p. 2437; Gaz. vol. 172; p. 412.
De Long, Charles E., Kankakee, Ill. Watch-barrel. No. 1,008,793; Nov. 14; Sp. p. 2635; Gaz. vol. 172; p. 441.
De Long, Ernest L., Clearwater, Fla. Machine for washing fruit. No. 983,691; Feb. 7; Sp. p. 944; Gaz. vol. 163; p. 149.
De Long, Guy B., Weston, Ohio. Oar-lock. No. 1,009,485; Nov. 21; Sp. p. 4169; Gaz. vol. 172; p. 718.
De Long Hook and Eye Company, The. (See Williams, James P., assignor.)
De Lukacsevics, Charles, assignor to G. W. Morgan, Jr., New York, N. Y. Rotary briquet machinery. No. 1,004,049; Sept. 26; Sp. p. 4112; Gaz. vol. 170; p. 739.
De Lukacsevics, Charles, assignor to G. W. Morgan, Jr., New York, N. Y. Rotary briquet-machine. No. 1,004,050; Sept. 26; Sp. p. 4114; Gaz. vol. 170; p. 739.
De Lukacsevics, Charles, assignor to himself and G. W. Morgan, Jr., New York, N. Y. Gas-engine. No. 998,363; July 18; Sp. p. 3863; Gaz. vol. 168; p. 685.
De Mars, Alfred A., Cleveland, Ohio. Vehicle-brake. No. 1,009,651; Nov. 21; Sp. p. 4470; Gaz. vol. 172; p. 770.
De Mayo, Louis A., New York, N. Y. Electric controller. No. 999,578; Aug. 1; Sp. p. 761; Gaz. vol. 169; p. 132.
De Mayo, Louis A., New York, N. Y. Resistance-box. No. 1,002,533; Sept. 5; Sp. p. 793; Gaz. vol. 170; p. 115.
De Meir, Auld W., Providence, R. I. Aeronautical safety suit or garment. No. 1,005,569; Oct. 10; Sp. p. 2206; Gaz. vol. 171; p. 381.
De Minico, Charles, Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,009,054; Nov. 21; Sp. p. 3181; Gaz. vol. 172; p. 564.
De Montigny, Joachim E., Montreal, Quebec, Canada. Three-color job-printing press. No. 1,002,299; Sept. 5; Sp. p. 258; Gaz. vol. 170; p. 35.
De Moss, George G., De Moss Springs, Oreg. Bed. No. 991,280; May 2; Sp. p. 971; Gaz. vol. 166; p. 164.
De Moulin, Erastus, Greenville, Ill. Initiation apparatus. No. 1,004,857; Oct. 3; Sp. p. 673; Gaz. vol. 171; p. 110.
De Neen, Albert W., St. Joseph, Mo. Show-case refrigerator. No. 999,704; Aug. 1; Sp. p. 992; Gaz. vol. 169; p. 173.
De Nemegyei, Bela. (See Dodge, William H., assignor.)
De Padro, Anthony, Chicago, Ill. Razor-guard. No. 1,006,184; Oct. 17; Sp. p. 3557; Gaz. vol. 171; p. 629.
De Pew, Isaiah M., Palma Sola, Fla. Truck. No. 1,006,364; Oct. 17; Sp. p. 3971; Gaz. vol. 171; p. 692.
De Planque, Edward, Philadelphia, Pa. Trolley-guide. No. 992,174; May 16; Sp. p. 2853; Gaz. vol. 166; p. 531.
De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Two-button pendent switch. No. 980,926; Jan. 10; Sp. p. 1663; Gaz. vol. 162; p. 288.
De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Snap-switch with inclosed fuse. No. 993,968; May 30; Sp. p. 6713; Gaz. vol. 166; p. 1208.
De Remer, Jared R., Glenwood Springs, Colo. Water-wheel. No. 990,639; Apr. 25; Sp. p. 5087; Gaz. vol. 165; p. 886.
De Remer, William L., Chicago, Ill. Forming tie-plates. No. 980,506; Jan. 3; Sp. p. 708; Gaz. vol. 162; p. 114.
De Remer, William L., Chicago, Ill. Insulated rail-joint. No. 991,488; May 9; Sp. p. 1415; Gaz. vol. 166; p. 266.
De Rosa, Delfino, Chisholm, Me. Automatic fire-alarm system. No. 1,010,351; Nov. 28; Sp. p. 5918; Gaz. vol. 172; p. 1053.
De Rosa, Delfino, Chisholm, Me. Guard device. No. 1,010,352; Nov. 28; Sp. p. 5920; Gaz. vol. 172; p. 1054.
De Rose, John P., La Crescent, Minn. Gearless mower. No. 996,622; July 4; Sp. p. 57; Gaz. vol. 168; p. 11.
De Rose, Joseph, Paterson, N. J. Cellar-door hinge. No. 993,227; May 23; Sp. p. 5126; Gaz. vol. 166; p. 924.
De Rose, Joseph, Paterson, N. J. Non-refillable bottle. No. 1,005,106; Oct. 3; Sp. p. 1139; Gaz. vol. 171; p. 192.
De Rosier, Horace, assignor of one-third to W. J. Tower and one-third to R. E. Lane, Springfield, Mass. Shock-absorber. No. 1,012,824; Dec. 26; Sp. p. 5397; Gaz. vol. 173; p. 958.
De Salme, Charles, St. Louis, Mo. Coupling. No. 993,155; May 23; Sp. p. 4986; Gaz. vol. 166; p. 901.
De Shon, Clarence, assignor of two-thirds to A. T. Montgomery and R. R. Earhart, St. Joseph, Mo. Water-economizer. No. 987,616; Mar. 21; Sp. p. 3891; Gaz. vol. 164; p. 693.
De Silva, Frank, Melrose Highlands, Mass. Bulletin. No. 982,940; Jan. 31; Sp. p. 6080; Gaz. vol. 162; p. 1062.
De Silver, William F., Cincinnati, Ohio. Insole-tacking jack. No. 1,007,851; Nov. 7; Sp. p. 481; Gaz. vol. 172; p. 71.
De Vasher, Lela H. (See Warner, Alonzo C., assignor.)
De Vilbiss, Allen, Toledo, Ohio. Bone-forceps. No. 1,002,826; Sept. 12; Sp. p. 1428; Gaz. vol. 170; p. 254.
De Vilbiss, Allen, Jr., assignor to Toledo Computing Scale Company, Toledo, Ohio. Scale. No. 1,005,942; Oct. 17; Sp. p. 3024; Gaz. vol. 171; p. 544.
De Vilbiss, Allen, Jr., assignor to Toledo Computing Scale Company, Toledo, Ohio. Weighing-scale. No. 1,005,943; Oct. 17; Sp. p. 3026; Gaz. vol. 171; p. 545.
De Vilbiss, Allen, Jr., Toledo, Ohio, assignor to Toledo Computing Scale Company, Newark, N. J. Weighing-scale. No. 1,007,932; Nov. 7; Sp. p. 646; Gaz. vol. 172; p. 100.
De Vilbiss, Allen, Jr., assignor to Toledo Computing Scale Company, Toledo, Ohio. Weighing-scale. No. 1,008,314; Nov. 14; Sp. p. 1493; Gaz. vol. 172; p. 274.
De Vilbiss Manufacturing Company, The. (See Hansen, Niels M., assignor.)
De Vilbiss, Thomas A. (See Denman, Ira O., assignor.)
De Vito, Louis, Cleveland, Ohio. Brake for railway-cars. No. 1,008,795; Nov. 14; Sp. p. 2638; Gaz. vol. 172; p. 442.
De Vlaming, William T., Roanoke, Va. Caster. No. 1,012,228; Dec. 19; Sp. p. 4129; Gaz. vol. 173; p. 708.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Ruffling and stitching machine. No. 983,031; Jan. 31; Sp. p. 6279; Gaz. vol. 162; p. 1092.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Ruffling mechanism for sewing-machines. No. 984,080; Feb. 14; Sp. p. 1808; Gaz. vol. 163; p. 311.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine ruffler. No. 984,081; Feb. 14; Sp. p. 1812; Gaz. vol. 163; p. 311.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Ruffling and stitching machine. No. 989,579; Apr. 18; Sp. p. 2755; Gaz. vol. 165; p. 491.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Ruffling and folding attachment. No. 991,428; May 2; Sp. p. 1275; Gaz. vol. 166; p. 213.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine attachment. No. 991,429; May 2; Sp. p. 1280; Gaz. vol. 166; p. 214.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine guide. No. 991,430; May 2; Sp. p. 1285; Gaz. vol. 166; p. 214.

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De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine attachment. No. 1,003,996; Sept. 26; Sp. p. 3973; Gaz. vol. 170; p. 719.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Ruffling and stitching machine. No. 1,005,173; Oct. 10; Sp. p. 1281; Gaz. vol. 171; p. 239.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Fabric guiding and gaging device. No. 1,005,814; Oct. 17; Sp. p. 2719; Gaz. vol. 171; p. 497.
De Voe, Albert H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,009,055; Nov. 21; Sp. p. 3189; Gaz. vol. 172; p. 565.
De Vogel, Peter. (See Vollman, John, assignor.)
De Wart, Harry M. (See Jacquerod, Paul C., assignor.)
De Wick, William H., Brooklyn, N. Y. Stringed musical instrument. No. 981,393; Jan. 10; Sp. p. 2778; Gaz. vol. 162; p. 452.
De Witt Dorcy O., Aberdeen, S. D. Traction-engine. No. 1,002,043; Aug. 29; Sp. p. 6090; Gaz. vol. 169; p. 1101.
De Witt, Elden C. (See Hermann and De Witt.)
De Witt, Harry V., Canton, Ohio. Collapsible umbrella. No. 992,861; May 23; Sp. p. 4360; Gaz. vol. 166; p. 801.
De Witt, William P., Somerville, Mass. Saliva-ejector. No. 1,012,613; Dec. 26; Sp. p. 4911; Gaz. vol. 173; p. 884.
De Ybarrondo, Vincent C., Los Angeles, Cal. Means of propulsion. No. 1,001,332; Aug. 22; Sp. p. 4594; Gaz. vol. 169; p. 831.
De Young, Teunis, Jr., South Holland, Ill. Onion-harvester. No. 992,862; May 23; Sp. p. 4362; Gaz. vol. 166; p. 801.
De Zeng, Henry L., Philadelphia, Pa. Current-tap. No. 1,010,125; Nov. 28; Sp. p. 5465; Gaz. vol. 172; p. 979.
Deacon, George B., London, Ontario, Canada. Clothes-rack. No. 993,039; May 23; Sp. p. 4742; Gaz. vol. 166; p. 863.
Deacon, Martin, and W. Gore, London, assignors of one-third to Palatine Engineering Company Limited, Liverpool, England. Filtering apparatus. No. 1,007,929; Nov. 7; Sp. p. 639; Gaz. vol. 172; p. 99.
Deady, John A., Milldale, Conn. Trolley-wheel. No. 992,484; May 16; Sp. p. 3566; Gaz. vol. 166; p. 639.
Deagan, John C., Chicago, Ill. Musical bell. No. 991,704; May 9; Sp. p. 1900; Gaz. vol. 166; p. 343.
Deahl, William V., Martinsville, Ill. Storm-front for vehicles. No. 1,000,241; Aug. 8; Sp. p. 2171; Gaz. vol. 169; p. 387.
Deakin, Gerald, Oakland, Cal., assignor of one-half to McMeen & Miller, Chicago, Ill. Telephone meter system. No. 990,638; Apr. 25; Sp. p. 5083; Gaz. vol. 165; p. 886.
Deakins, Henry B., Logan, Iowa. Wagon-brake. No. 990,117; Apr. 18; Sp. p. 3895; Gaz. vol. 165; p. 673.
Deal, Baltzer K., Medford, Oreg. Trunk-roper. No. 1,011,326; Dec. 12; Sp. p. 2110; Gaz. vol. 173; p. 360.
Deal, Charles A., Los Angeles, Cal. Starting mechanism for internal-combustion engines. No. 1,001,512; Aug. 22; Sp. p. 4931; Gaz. vol. 169; p. 891.
Deal, Neuman M., Grand Rapids, Mich. Garment stretcher and presser. No. 987,615; Mar. 21; Sp. p. 3890; Gaz. vol. 164; p. 692.
Dealey, Walter A., Austin, Tex. Base-ball score-card. No. 1,011,122; Dec. 5; Sp. p. 1585; Gaz. vol. 173; p. 251.
Deam, Oswald, near Calcutta, India. Recording mechanism for engine-room telegraphs. No. 998,077; July 18; Sp. p. 3206; Gaz. vol. 168; p. 581.
Dean, A. F., *et al.* (See Purdy and Miller, assignors.)
Dean, Alexander, Los Angeles, Cal. Driving mechanism for wave-motors. No. 998,756; July 25; Sp. p. 4716; Gaz. vol. 168; p. 854.
Dean, Charles A., Tama, Iowa. Sterilizing-cabinet. No. 1,007,274; Oct. 31; Sp. p. 5997; Gaz. vol. 171; p. 1094.
Dean, Charles H., *et al.* (See Golden, Daniel J., assignor.)
Dean, Charles H. (See Stall, Walter T., assignor.)
Dean Electric Company, The. (See Allen, Frank B., assignor.)
Dean Electric Company, The. (See Dean, William W., assignor.)
Dean Electric Company, The. (See Halidow, John, assignor.)
Dean Electric Company, The. (See Holmes, John D., assignor.)
Dean Electric Company, The. (See Libby, Albion D. T., assignor.)
Dean Electric Company, The. (See Manson, Ray H., assignor.)
Dean, Frederick W., Des Moines, Iowa. Handpiece for dental engines. No. 984,419; Feb. 14; Sp. p. 2506; Gaz. vol. 163; p. 424.
Dean, George E., Albion, Mich. Welding-machine. No. 1,006,537; Oct. 24; Sp. p. 4369; Gaz. vol. 171; p. 783.
Dean, George E., Scranton, Pa. Pocket-case. No. 1,010,872; Dec. 5; Sp. p. 1057; Gaz. vol. 173; p. 165.
Dean, George E., assignor to Union Steel Screen Company, Albion, Mich. Welding-machine. No. 1,006,536; Oct. 24; Sp. p. 4367; Gaz. vol. 171; p. 782.
Dean, Harry. (See Turner and Dean.)
Dean, James H., St. Paul, Minn., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 982,775; Jan. 24; Sp. p. 5696; Gaz. vol. 162; p. 977.
Dean, James H., St. Paul, Minn., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 995,332; June 13; Sp. p. 2673; Gaz. vol. 167; p. 459.
Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 995,329; June 13; Sp. p. 2657; Gaz. vol. 167; p. 457.
Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 995,330; June 13; Sp. p. 2665; Gaz. vol. 167; p. 458.
Dean, James H., Chicago, Ill., assignor, by mesne assignments, to Empire Voting Machine Company. Voting-machine. No. 995,331; June 13; Sp. p. 2669; Gaz. vol. 167; p. 458.
Dean, John, assignor to John Dean Manufacturing Company, Racine, Wis. Match-flare. No. 1,001,190; Aug. 22; Sp. p. 4286; Gaz. vol. 169; p. 782.
Dean, John, assignor to John Dean Manufacturing Company, Racine, Wis. Match-flare. No. 1,001,191; Aug. 22; Sp. p. 4288; Gaz. vol. 169; p. 783.
Dean, John F., assignor to D. R. James and L. P. Stark, Scranton, Pa. Safety device for elevators. No. 1,011,758; Dec. 12; Sp. p. 3053; Gaz. vol. 173; p. 510.
Dean, Joseph. (See Barker, Dean, Grandage, and Jackson.)
Dean, Patrick C., Pittsburg, Pa. Horseshoe attachment. No. 998,329; July 18; Sp. p. 3784; Gaz. vol. 168; p. 673.
Dean Rapid Telegraph Co. (See Dean, Robert L., assignor.)
Dean, Robert L., Kansas City, Mo., assignor to Dean Rapid Telegraph Co. System of telegraphy. No. 982,659; Jan. 24; Sp. p. 5439; Gaz. vol. 162; p. 939.
Dean, Seabury F. L. (See Parry, Harvey H., assignor.)
Dean, William, Manor, Pa. Metallic tie and rail-fastener. No. 997,244; July 4; Sp. p. 1356; Gaz. vol. 168; p. 222.
Dean, William H., Chicago, Ill. Wall construction. No. 983,214; Jan. 31; Sp. p. 6629; Gaz. vol. 162; p. 1153.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 980,613; Jan. 3; Sp. p. 938; Gaz. vol. 162; p. 152.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Magneto-electric machine. No. 983,029; Jan. 31; Sp. p. 6276; Gaz. vol. 162; p. 1091.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Magnetic telephone. No. 998,161; July 18; Sp. p. 3380; Gaz. vol. 168; p. 610.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-transmitter. No. 1,000,499; Aug. 15; Sp. p. 2745; Gaz. vol. 169; p. 508.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-receiver. No. 1,006,833; Oct. 24; Sp. p. 5032; Gaz. vol. 171; p. 887.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-casing. No. 1,008,122; Nov. 7; Sp. p. 1018; Gaz. vol. 172; p. 165.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 1,011,168; Dec. 12; Sp. p. 1731; Gaz. vol. 173; p. 303.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Ignition device. No. 1,011,169; Dec. 12; Sp. p. 1739; Gaz. vol. 173; p. 303.
Dean, William W., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Operator's selective ringing-key or switch. No. 987,864; Mar. 28; Sp. p. 4448; Gaz. vol. 164; p. 808.
Dean, William W., North Ridgeville, assignor to The Dean Electric Company, Elyria, Ohio. Warning-signal device. No. 998,162; July 18; Sp. p. 3382; Gaz. vol. 168; p. 610.
Deans, Bertha A., and M. J. Songer, Santa Cruz, Cal. Hot-water holder. No. 981,388; Jan. 10; Sp. p. 2768; Gaz. vol. 162; p. 450.
Dear, William H., assignor of one-half to J. R. Hale, Anthony, Kans. Folding egg-case. No. 1,007,073; Oct. 31; Sp. p. 5549; Gaz. vol. 171; p. 1021.
Dearborn, Charles A., New York, N. Y. Feed mechanism for sewing-machines. No. 991,705; May 9; Sp. p. 1902; Gaz. vol. 166; p. 343.
Dearborn, John W., Ansonia, Conn. Friction-clutch. No. 981,389; Jan. 10; Sp. p. 2769; Gaz. vol. 162; p. 450.
Dearborn, Richard J., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric railway. No. 999,754; Aug. 8; Sp. p. 1115; Gaz. vol. 169; p. 221.
Dearing, David M., Jackson, Mich. Running-gear for motor-vehicles. No. 1,005,170; Oct. 10; Sp. p. 1275; Gaz. vol. 171; p. 238.
Dearing, David M., Jackson, Mich. Running-gear for motor-vehicles. No. 1,005,171; Oct. 10; Sp. p. 1277; Gaz. vol. 171; p. 238.

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Dearth, Walter W., *et al.* (See Read, William and A., assignors.)
Deasy, Peter A., Oakland, Cal., assignor to Columbia Combination Boiler and Heater Company. Combined heater and boiler. No. 985,787; Mar. 7; Sp. p. 38; Gaz. vol. 164; p. 9.
Deatherage, Charles P. (See Roed, Olaf A., assignor.)
Deaton, George H., San Antonio, Tex. Match-box. No. 1,011,327; Dec. 12; Sp. p. 2111; Gaz. vol. 173; p. 360.
Deats, Philip, Mattawan, Mich., assignor to Armour & Company, Chicago, Ill. Grape-pomace heater. No. 991,487; May 9; Sp. p. 1410; Gaz. vol. 166; p. 265.
Debauche, Joseph H., Gilly, Belgium. Safety or braking device for apparatus driven by fluids under pressure. No. 993,967; May 30; Sp. p. 6710; Gaz. vol. 166; p. 1207.
Debay, Henry J. (See Delchevalerie and Debay.)
Debedat, Xavier, Bordeaux, France. Manufacturing coloring substances. No. 999,755; Aug. 8; Sp. p. 1115; Gaz. vol. 169; p. 221.
Debus, Albert, Hattingen, and E. Menne, assignors to Cöln Müsener Bergwerks-Actien Verein, Creuzthal, Germany. Perforating metals. No. 999,099; July 25; Sp. p. 5473; Gaz. vol. 168; p. 974.
Decauville, Pierre, Paris, France. Resilient wheel. No. 1,001,513; Aug. 22; Sp. p. 4933; Gaz. vol. 169; p. 891.
Deck, Harry C., *et al.* (See Ruyle, Robert N., assignor.)
Decker, Ammiel F., assignor to Tingue, Brown & Co., New York, N. Y. Printer's blanket. No. 1,004,385; Sept. 26; Sp. p. 4837; Gaz. vol. 170; p. 854.
Decker, Delbert H. (See Shields, William S., assignor.)
Decker, Franklin, *et al.* (See Poinan, Francis J., assignor.)
Decker, Harry C. (See North and Decker.)
Decker, Herman, Hanover, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. 6.7-methylenedioxy-3.4-dihydroisoquinolin. No. 1,010,598; Dec. 5; Sp. p. 452; Gaz. vol. 173; p. 70.
Decker, Ruluff E., Cassopolis, Mich. Fountain-pen or the like. No. 1,003,437; Sept. 19; Sp. p. 2724; Gaz. vol. 170; p. 499.
Decker, William M., Buffalo, N. Y. Nursing-nipple. No. 981,072; Jan. 10; Sp. p. 2060; Gaz. vol. 162; p. 339.
Decker, William M., Buffalo, N. Y. Combined breast and nipple for nursing-bottles. No. 982,776; Jan. 24; Sp. p. 5700; Gaz. vol. 162; p. 977.
Decker, William M., Buffalo, N. Y. Spring shade-roller. No. 985,327; Feb. 28; Sp. p. 4481; Gaz. vol. 163; p. 807.
Decker, William M., Buffalo, N. Y. Nursing-bottle. No. 985,328; Feb. 28; Sp. p. 4484; Gaz. vol. 163; p. 807.
Decremer, Henry, Perkins, Mich. Grain-measuring chute. No. 985,329; Feb. 28; Sp. p. 4486; Gaz. vol. 163; p. 807.
Dedekind, George G. (See Kurz and Dedekind.)
Dee, David, *et al.* (See Wilson, Henry E., assignor.)
Deeds, Fred F., assignor of one-third to F. McHale and one-third to A. B. Spurney, Cleveland, Ohio. Mechanism for making bolts. No. 986,697; Mar. 14; Sp. p. 1992; Gaz. vol. 164; p. 350.
Deeds, Fred F., assignor of one-third to F. McHale and one-third to A. B. Spurney, Cleveland, Ohio. Mechanism for making bolts, screws, &c. No. 996,840; July 4; Sp. p. 487; Gaz. vol. 168; p. 81.
Deegan, Edward J., New York, N. Y. Damper-regulator. No. 989,128; Apr. 11; Sp. p. 1751; Gaz. vol. 165; p. 305.
Deegan, Edward J., New York, N. Y. Expansible mechanism for damper-regulators. No. 1,000,379; Aug. 15; Sp. p. 2489; Gaz. vol. 169; p. 465.
Deegan, Edward J., New York, N. Y. Expansible tube. No. 1,010,123; Nov. 28; Sp. p. 5459; Gaz. vol. 172; p. 778.
Deem, Addison P. S., Belpre, Ohio. Display device. No. 981,177; Jan. 10; Sp. p. 2281; Gaz. vol. 162; p. 377.
Deem, Addison P. S., Belpre, Ohio. Display device. No. 989,699; Apr. 18; Sp. p. 3019; Gaz. vol. 165; p. 531.
Deem, Addison P. S., Belpre, Ohio. Spool-holder. No. 1,012,822; Dec. 26; Sp. p. 5394; Gaz. vol. 173; p. 957.
Deemer, Selden S., New Castle, Del. Process of and apparatus for treating molten metal. No. 987,704; Mar. 28; Sp. p. 4115; Gaz. vol. 164; p. 753.
Deer, A. C. (See Deer, Job, assignor.)
Deer, Job, assignor of one-half to A. C. Deer, Independence, Kans. Brick-tongs. No. 1,008,589; Nov. 14; Sp. p. 2181; Gaz. vol. 172; p. 372.
Deerberg, Friedrich, Buffalo, Nebr. Game apparatus. No. 990,851; May 2; Sp. p. 49; Gaz. vol. 166; p. 11.
Deere & Company. (See Melvin, Charles H., assignor.)
Deere & Company. (See Podlešák, Henry J., assignor.)
Deering, Morrill E., Pittsfield, Me. Shuttle. No. 1,010,873; Dec. 5; Sp. p. 1059; Gaz. vol. 173; p. 165.
Deering, Uriah H., Cleburne, Tex. Device for supporting grave-linings. No. 1,003,240; Sept. 12; Sp. p. 2328; Gaz. vol. 170; p. 400.
Dees, Mark A., Pascagoula, Miss. Pneumatic tire. No. 999,302; Aug. 1; Sp. p. 209; Gaz. vol. 169; p. 39.
Deeth, Harvey N. (See Deeth, Herbert M., T. J., W. J., and H. N.)
Deeth, Herbert M., T. J., W. J., and H. N., Toronto, Ontario, Canada. Resilient tire. No. 983,270; Feb. 7; Sp. p. 21; Gaz. vol. 163; p. 6.
Deeth, Thomas J. (See Deeth, Herbert M., T. J., W. J., and H. N.)
Deeth, William J. (See Deeth, Herbert M., T. J., W. J., and H. N.)
Defender Manufacturing Company, The. (See Holland, Charles E., assignor.)
Defendograph Company, The. (See Sampson, Charles H., assignor.)
Deffner, George J., Springfield, Mass. Drinking-tube. No. 1,012,193; Dec. 19; Sp. p. 4051; Gaz. vol. 173; p. 696.
Defiance Lantern & Stamping Co. (See Hill, James H., assignor.)
Defiance Pressed Steel Company, The. (See Klenk, Gottlieb, assignor.)
Degaille, Pierre A. (See Menteyne and Degaille.)
Degelow, Max R., Grohn, near Vegesack, Germany.. Apparatus for measuring tiles. No. 1,011,123; Dec. 5; Sp. p. 1587; Gaz. vol. 173; p. 252.
Degener, Gustave O., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined type-writing and adding machine. No. 990,238; Apr. 25; Sp. p. 4189; Gaz. vol. 165; p. 747.
Degener, Gustave O., assignor to Underwood Computing Machine Company, New York, N. Y. Key-arresting mechanism. No. 1,010,349; Nov. 28; Sp. p. 5913; Gaz. vol. 172; p. 1053.
Degener, Gustave O., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,012,607; Dec. 26; Sp. p. 4891; Gaz. vol. 173; p. 881.
Degener, Heinrich, Berlin, Germany. Type-setting and line-casting machine. No. 982,172; Jan. 17; Sp. p. 4415; Gaz. vol. 162; p. 740.
Degener, Heinrich, Berlin, Germany. Linotype-machine. No. 982,173; Jan. 17; Sp. p. 4420; Gaz. vol. 162; p. 740.
Degener, Heinrich, Berlin, Germany. Matrix-setting and line-casting machine. No. 982,174; Jan. 17; Sp. p. 4421; Gaz. vol. 162; p. 741.
Degener, Heinrich, Berlin, Germany. Matrix for linotype-machines. No. 989,129; Apr. 11; Sp. p. 1754; Gaz. vol. 165; p. 306.
Degener, Heinrich, Berlin, Germany. Matrix-setting and line-casting machine. No. 989,575; Apr. 18; Sp. p. 2745; Gaz. vol. 165; p. 489.
Degener, Heinrich, Berlin, Germany. Typographic machine. No. 1,004,386; Sept. 26; Sp. p. 4838; Gaz. vol. 170; p. 854.
Degener, Heinrich, Berlin, Germany, assignor to Mergenthaler Linotype Company. Line setting and casting machine. No. 996,568; June 27; Sp. p. 5413; Gaz. vol. 167; p. 947.
Degener, Heinrich, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical line composing and casting machine. No. 1,006,444; Oct. 17; Sp. p. 4137; Gaz. vol. 171; p. 719.
Degener, Heinrich, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical line-casting machine. No. 1,006,445; Oct. 17; Sp. p. 4138; Gaz. vol. 171; p. 719.
Degener, Heinrich, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical composing and line-casting machine. No. 1,008,705; Nov. 14; Sp. p. 2436; Gaz. vol. 172; p. 412.
Degener, Heinrich, Berlin, Germany, assignor to Mergenthaler Linotype Company. Type-setting and line-casting machine. No. 1,010,401; Nov. 28; Sp. p. 6033; Gaz. vol. 172; p. 1069.
Degener, Heinrich, Berlin, Germany, assignor to Mergenthaler Linotype Company. Matrix-setting and type-line-casting machine. No. 1,011,590; Dec. 12; Sp. p. 2712; Gaz. vol. 173; p. 455.
Degenhardt, Frank O., New York, N. Y. Carousel. No. 991,199; May 2; Sp. p. 792; Gaz. vol. 166; p. 135.
Degulio, Angelo, New York, N. Y. Guitar. No. 1,010,240; Nov. 28; Sp. p. 5692; Gaz. vol. 172; p. 1017.
Dehls, John C. (See Stein, Leo, assignor.)
Dehne, Adolph, Frankfort-on-the-Oder, Germany. Centrifugal cream-separator. No. 1,002,970; Sept. 12; Sp. p. 1758; Gaz. vol. 170; p. 305.
Dehnel, Erich. (See Stiegelmann and Dehnel.)
Dehnst, Julius, Berlin-Halensee, Germany. Preserving wood. No. 991,200; May 2; Sp. p. 795; Gaz. vol. 166; p. 135.
Dehnst, Julius, Halensee, near Berlin, Germany. Preparing wood-impregnating liquids. No. 999,013; July 25; Sp. p. 5306; Gaz. vol. 168; p. 944.
Dehrenbach, Robert, Jersey City, N. J. Non-refillable bottle. No. 980,925; Jan. 10; Sp. p. 1661; Gaz. vol. 162; p. 287.
Dehuff, Walter F., assignor to H. Read, York, Pa. Mixing-machine. No. 1,007,930; Nov. 7; Sp. p. 643; Gaz. vol. 172; p. 99.
Deible, Lewis J., assignor of one-half to F. W. Steck, Warren, Pa. Picture-enlarging device or apparatus. No. 984,359; Feb. 14; Sp. p. 2395; Gaz. vol. 163; p. 405.

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Deiller, Eugene M. (See Deiller, Martin and E. M.)
Deiller Machine Company. (See Deiller, Martin and E. M., assignors.)
Deiller, Martin and E. M., Newark, N. J., assignors to Deiller Machine Company. Tobacco stripping and booking machine. No. 985,984; Mar. 7; Sp. p. 497; Gaz. vol. 164; p. 79.
Deimel, Rudolph, Chicago, Ill. Sofa-bed. No. 993,656; May 30; Sp. p. 6087; Gaz. vol. 166; p. 1103.
Deimel, Rudolph, Chicago, Ill. Upholstery-machine. No. 993,657; May 30; Sp. p. 6090; Gaz. vol. 166; p. 1103.
Deininger, John, Ulm, Germany. Lock-strike. No. 1,003,713; Sept. 19; Sp. p. 3396; Gaz. vol. 170; p. 597.
Deiss, Auguste, Marseille, France. Manufacture of oxalic acid and other oxygenated carbon products. No. 999,551; Aug. 1; Sp. p. 709; Gaz. vol. 169; p. 122.
Deister, William F., Fort Wayne, Ind. Apparatus for collecting concentrates. No. 1,007,074; Oct. 31; Sp. p. 5553; Gaz. vol. 171; p. 1022.
Deister, William F., Fort Wayne, Ind. Apparatus for collecting concentrates. No. 1,007,075; Oct. 31; Sp. p. 5555; Gaz. vol. 171; p. 1022.
Deister, William F., Fort Wayne, Ind. Slime-concentrator. No. 1,010,350; Nov. 28; Sp. p. 5915; Gaz. vol. 172; p. 1053.
Dekker, Peter M., The Hague, Netherlands. Chain-links for bucket dredgers, elevators, and the like. No. 1,003,038; Sept. 12; Sp. p. 1894; Gaz. vol. 170; p. 327.
Dekle, May D., Waycross, Ga. Nursing-bottle holder. No. 986,445; Mar. 14; Sp. p. 1459; Gaz. vol. 164; p. 263.
Deknatel, Frederick H., and C. J. Spruce, assignors to The Mackie-Lovejoy Manufacturing Company, Chicago, Ill. Skirt-marker. No. 1,008,312; Nov. 14; Sp. p. 1488; Gaz. vol. 172; p. 273.
Del Castillo, Francisco A., Washington, D. C. Combined protractor and T-square. No. 994,570; June 6; Sp. p. 977; Gaz. vol. 167; p. 162.
Del Mar, Eugene. (See Noll, John, assignor.)
Del Valle, Y. R. (See Whitton, James A., assignor.)
Delahaye and Company Limited. (See Desmarais, Léon, assignor.)
Delamere, Henry S., South Berkeley, Cal. Nut-lock. No. 1,006,918; Oct. 24; Sp. p. 5214; Gaz. vol. 171; p. 916.
Delaney, J. M. (See Powell, Frank, assignor.)
Delaney, Michael G., and H. D. Selby, assignors of one-fifth to H. M. Butzel, Detroit, Mich. Driving mechanism. No. 1,010,599; Dec. 5; Sp. p. 453; Gaz. vol. 173; p. 70.
Delany, Patrick B., South Orange, N. J. Telegraphy. No. 989,576; Apr. 18; Sp. p. 2747; Gaz. vol. 165; p. 490.
Delany, Patrick B., South Orange, N. J., assignor to Delany Telegraphic Transmitter Company, New York, N. Y. Telegraphy. No. 981,845; Jan. 17; Sp. p. 3722; Gaz. vol. 162; p. 630.
Delany, Patrick, B., South Orange, N. J., assignor to The Telepost Company, New York, N. Y. Telegraphy. No. 989,577; Apr. 18; Sp. p. 2748; Gaz. vol. 165; p. 490.
Delany, Patrick B., South Orange, N. J., assignor to The Telepost Company, New York, N. Y. Telegraphy. No. 1,011,925; Dec. 19; Sp. p. 3441; Gaz. vol. 173; p. 602.
Delany Telegraphic Transmitter Company. (See Delany, Patrick B., assignor.)
Delattre, Emile D., Liege, Belgium. Means for withdrawing dust and fumes from zinc or similar furnaces. No. 993,513; May 30; Sp. p. 5757; Gaz. vol. 166; p. 1052.
Delchevalerie, Simon, Sr., and H. J. Debay, Charleroi, Pa. Casting-table. No. 999,015; July 25; Sp. p. 5310; Gaz. vol. 168; p. 945.
Delene, Edward C., Moline, Ill. Sliding-pole-opening guard. No. 982,481; Jan. 24; Sp. p. 5102; Gaz. vol. 162; p. 880.
Deline, Edward H. (See Horton and Deline.)
Delius, George, and C. P. Tatro, Seattle, Wash. Preserving meat. No. 1,009,650; Nov. 21; Sp. p. 4469; Gaz. vol. 172; p. 770.
Dellinger, Charles D., Enterprise, Okla. Match-safe. No. 990,118; Apr. 18; Sp. p. 3896; Gaz. vol. 165; p. 673.
Dellinger, Charles D., Enterprise, Okla. Plow. No. 1,004,387; Sept. 26; Sp. p. 4842; Gaz. vol. 170; p. 854.
Delmore, Joseph M., Piru, Cal. Lock for swivels. No. 999,967; Aug. 8; Sp. p. 1549; Gaz. vol. 169; p. 292.
Delmore, Joseph M., Piru, Cal. Underreamer. No. 1,006,446; Oct. 17; Sp. p. 4140; Gaz. vol. 171; p. 720.
Delorme, Louis A., *et al.* (See Lord, Peter, assignor.)
Delpeuch, Léon, Neuilly-sur-Seine, France. Compressed-air suspension for vehicles. No. 1,009,287; Nov. 21; Sp. p. 3717; Gaz. vol. 172; p. 647.
Delta-Star Electric Company. (See Cravens, George W., assignor.)
Demarest, David C., *et al.* (See Murrin, William E., assignor.)
Demarest, David C., *et al.* (See Senn, Carl, assignor.)
Demarest, David C. (See Senn and Demarest.)
Demarest, Ernest, Patterson, La. Cable-chain conveyer-cleat. No. 1,008,890; Nov. 14; Sp. p. 2818; Gaz. vol. 172; p. 474.
Demarest, John, Springfield, Mass. Combined steam and hot-air heater. No. 999,756; Aug. 8; Sp. p. 1117; Gaz. vol. 169; p. 221.
Dematteis, Julian, Batavia, Iowa. Metallic railway-tie. No. 996,706; July 4; Sp. p. 223; Gaz. vol. 168; p. 38.
Dement, Alfred K., assignor to United States Police and Fire Signal Company, Pittsburgh, Pa. Police signal system. No. 1,007,544; Oct. 31; Sp. p. 6575; Gaz. vol. 171; p. 1188.
Dement, Alfred K., assignor to United States Police and Fire Signal Company, Pittsburgh, Pa. Signal system. No. 1,007,545; Oct. 31; Sp. p. 6580; Gaz. vol. 171; p. 1189.
Demers, Albert, Manchester, N. H. Convertible chair. No. 1,010,874; Dec. 5; Sp. p. 1060; Gaz. vol. 173; p. 166.
Demers, Nazaire, Manchester, N. H. Loom-temple. No. 995,333; June 13; Sp. p. 2678; Gaz. vol. 167; p. 459.
Demeure, Edouard. (See Magnee and Demeure.)
Deming Apparatus Company. (See Deming, Eugene W., assignor.)
Deming, Charles G., Syracuse, N. Y. Vehicle-wheel tire. No. 983,880; Feb. 14; Sp. p. 1361; Gaz. vol. 163; p. 245.
Deming Company, The. (See Cornwall, Charles, assignor.)
Deming, Eugene W., New York, N. Y. Apparatus for treating cane-juice. No. 996,911; July 4; Sp. p. 650; Gaz. vol. 168; p. 106.
Deming, Eugene W., assignor to Deming Apparatus Company, New York, N. Y. Treating cane-juice. No. 997,605; July 11; Sp. p. 2085; Gaz. vol. 168; p. 372.
Deming, Paul H. (See Hayes and Deming.)
Deming, William L., Salem, Ohio. Game-board. No. 985,788; Mar. 7; Sp. p. 40; Gaz. vol. 164; p. 9.
Deming, William L., Salem, Ohio. Folding article of furniture. No. 992,758; May 23; Sp. p. 4125; Gaz. vol. 166; p. 763.
Deming, William L., Salem, Ohio. Key-ring. No. 994,249; June 6; Sp. p. 305; Gaz. vol. 167; p. 52.
Demmler, John, Lansing, Mich. Differential gearing for automobiles. No. 997,606; July 11; Sp. p. 2086; Gaz. vol. 168; p. 372.
Dempsey, William T. (See Murray and Dempsey.)
Dempster, Alexander, Schenectady, N. Y., assignor to General Electric Company. Attachment for vapor-lamps. No. 1,006,729; Oct. 24; Sp. p. 4762; Gaz. vol. 171; p. 848.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Electric-arc lamp. No. 981,248; Jan. 10; Sp. p. 2474; Gaz. vol. 162; p. 402.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Mercury-vapor apparatus. No. 982,228; Jan. 17; Sp. p. 4535; Gaz. vol. 162; p. 760.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 996,979; July 4; Sp. p. 815; Gaz. vol. 168; p. 131.
Dempster, John T. H., Schenectady, N. Y., assignor to General Electric Company. Electrode for arc-lamps. No. 1,010,402; Nov. 28; Sp. p. 6035; Gaz. vol. 172; p. 1069.
Demuth, Leopold, New York, N. Y. Tobacco-pipe. No. 996,006; June 20; Sp. p. 4148; Gaz. vol. 167; p. 722.
Dench, William L., Pelham, N. Y., assignor to Elliott-Fisher Company, Harrisburg, Pa. Yielding depressor-plate for combined type-writing and adding machines. No. 992,342; May 16; Sp. p. 3269; Gaz. vol. 166; p. 590.
Dengel, John, assignor to American Plow Co., Madison, Wis. Drag attachment for plows. No. 987,286; Mar. 21; Sp. p. 3230; Gaz. vol. 164; p. 582.
Dengler, John, *et al.* (See Bromm, George, assignor.)
Denham, Edwin A., assignor to The Erie Wrench Company, New York, N. Y. Spanner-wrench. No. 999,968; Aug. 8; Sp. p. 1551; Gaz. vol. 169; p. 293.
Denio, William L., Rochester, N. Y. Fire-alarm system for telephone-exchanges. No. 1,008,313; Nov. 14; Sp. p. 1489; Gaz. vol. 172; p. 273.
Denio, William L., Rochester, N. Y. Fire-alarm system. No. 1,008,960; Nov. 14; Sp. p. 2966; Gaz. vol. 172; p. 495.
Denis, George A., Green Bay, Wis. Windmill-oiling apparatus. No. 1,001,255; Aug. 22; Sp. p. 4418; Gaz. vol. 169; p. 803.
Denis, Luc L. B., Paris, France. Metal spring. No. 1,008,794; Nov. 14; Sp. p. 2637; Gaz. vol. 172; p. 442.
Denison, Hyrum. (See Jensen and Denison.)
Denison, Louis E., Chicago, Ill. Razor-sharpening machine. No. 1,001,735; Aug. 29; Sp. p. 5413; Gaz. vol. 169; p. 997.
Denison, Louis S., Kelso, Wash. Butt-hook. No. 987,865; Mar. 28; Sp. p. 4452; Gaz. vol. 164; p. 809.
Denison, Louis S., Kelso, Wash. Choker-hook. No. 992,759; May 23; Sp. p. 4128; Gaz. vol. 166; p. 764.
Denison, William C., Cleveland Heights, assignor to The Ohio Clay Company, Cleveland, Ohio. Building-block. (Reissue.) No. 13,299; Oct. 17; Sp. p. 4150; Gaz. vol. 171; p. 721.
Denman, A. E. (See Richardson, Henry E., assignor.)
Denman, Ira O., assignor of one-half to T. A. De Vilbiss, Toledo, Ohio. Refracting telescopic goggles. No. 988,081; Mar. 28; Sp. p. 4980; Gaz. vol. 164; p. 883.
Denmead, John W. (See Palmer and Denmead.)

Denmead, John W., assignor of one-half to J. Christy, Akron, Ohio. Friction-clutch. No. 999,016; July 25; Sp. p. 5313; Gaz. vol. 168; p. 945.
Denmon, Ezekiel U., and W. M. Peyton, Plain Dealing, La. Hay-press. No. 1,008,021; Nov. 7; Sp. p. 812; Gaz. vol. 172; p. 129.
Denne, Mark T., Rushden, England. Machine for attaching the heels of boots and shoes. No. 993,514; May 30; Sp. p. 5759; Gaz. vol. 166; p. 1052.
Denne, Mark T., Rushden, county of Northampton, England. Edge-gage for use on slugging, nailing, or like machines. No. 993,764; May 30; Sp. p. 6321; Gaz. vol. 166; p. 1140.
Denner, Charlotte I., Santa Rosa, Cal. Rein-holder and whip-socket. No. 986,146; Mar. 7; Sp. p. 809; Gaz. vol. 164; p. 131.
Denning, Joseph M., Cedar Rapids, Iowa. Wire-fence-making machine. No. 980,499; Jan. 3; Sp. p. 699; Gaz. vol. 162; p. 113.
Dennington, James W., Maben, Ala. Bank-check protector. No. 1,012,608; Dec. 26; Sp. p. 4894; Gaz. vol. 173; p. 881.
Dennis, Adolphus S., Lakewood, Ohio, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 991,706; May 9; Sp. p. 1906; Gaz. vol. 166; p. 344.
Dennis, Alfred A., assignor to The Veneer Machinery Company, Grand Rapids, Mich. Veneer-taping machine. No. 1,012,609; Dec. 26; Sp. p. 4895; Gaz. vol. 173; p. 882.
Dennis, Elmer L., assignor to Andrews Wire and Iron Works, Rockford, Ill. Letter-tray. No. 994,984; June 13; Sp. p. 1964; Gaz. vol. 167; p. 344.
Dennis, Ernest M., Cherokee, Iowa. Mail receiving and discharging device. No. 989,340; Apr. 11; Sp. p. 2227; Gaz. vol. 165; p. 377.
Dennis, Howard, Spokane, Wash. Carbureter. No. 1,003,994; Sept. 26; Sp. p. 3970; Gaz. vol. 170; p. 719.
Dennis, James A., Henderson, Ky. Fishing-line leader. No. 1,000,380; Aug. 15; Sp. p. 2491; Gaz. vol. 169; p. 466.
Dennis, John L., and J. Huntington, Philadelphia, Pa. Valve. No. 1,004,751; Oct. 3; Sp. p. 441; Gaz. vol. 171; p. 73.
Dennis, Oliver C., assignor to The Venn Manufacturing Company, Chicago, Ill. Advertising-sign. No. 996,224; June 27; Sp. p. 4662; Gaz. vol. 167; p. 832.
Dennis, Samuel A., Los Angeles, Cal. Globe-valve. No. 1,004,752; Oct. 3; Sp. p. 442; Gaz. vol. 171; p. 74.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Corn-planter. No. 1,000,672; Aug. 15; Sp. p. 3151; Gaz. vol. 169; p. 571.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Manure-spreader. No. 1,001,366; Aug. 22; Sp. p. 4674; Gaz. vol. 169; p. 844.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Corn-planter. No. 1,001,367; Aug. 22; Sp. p. 4676; Gaz. vol. 169; p. 844.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Corn-planter. No. 1,001,736; Aug. 29; Sp. p. 5415; Gaz. vol. 169; p. 998.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Corn-planter. No. 1,005,172; Oct. 10; Sp. p. 1279; Gaz. vol. 171; p. 238.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Front-bolster axle for wagons. No. 1,010,600; Dec. 5; Sp. p. 455; Gaz. vol. 173; p. 70.
Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Corn-planter. No. 1,011,926; Dec. 19; Sp. p. 3442; Gaz. vol. 173; p. 603.
Dennis, Stephen, Jonesboro, Ark. Fruit-tree ventilator. No. 1,011,170; Dec. 12; Sp. p. 1743; Gaz. vol. 173; p. 304.
Dennison, John J., Chicago, Ill. Friction-clutch. No. 1,011,040; Dec. 5; Sp. p. 1393; Gaz. vol. 173; p. 222.
Dennison Manufacturing Company. (See Willis, Charles C., assignor.)
Dennstedt, Albert L., assignor to Albert Lea Gas Light Company, Albert Lea, Minn. Automatic cut-off for gasolene-generated lights. No. 1,006,919; Oct. 24; Sp. p. 5215; Gaz. vol. 171; p. 917.
Denny, Christopher C., *et al.* (See Vesey, Richard H., assignor.)
Denny, Claude W., Kensington, London, England. Electric switch. No. 997,759; July 11; Sp. p. 2454; Gaz. vol. 168; p. 428.
Denoon, George, Jr., Springfield, Mass. Toilet-paper fixture. No. 1,003,995; Sept. 26; Sp. p. 3971; Gaz. vol. 170; p. 719.
Denslinger, Alfred A. (See Manning and Denslinger.)
Denson, George W., Dawson, Ala. Cotton-chopper. No. 994,725; June 13; Sp. p. 1366; Gaz. vol. 167; p. 255.
Dental Denture Improvement Company, The. (See Gollobin and Bornstein, assignors.)
Dental Manufacturing Company, The. (See Rowse, John A., assignor.)
Dentists' Supply Company. (See Dimelow, James, assignor.)
Denton, George R., London, England. Device or apparatus for sorting or distributing coins. No. 985,789; Mar. 7; Sp. p. 44; Gaz. vol. 164; p. 10.
Denton, James H., Milwaukee, Wis. Compressor. No. 995,121; June 13; Sp. p. 2237; Gaz. vol. 167; p. 389.
Denton, John L., Whitewright, Tex. Washing-machine. No. 997,760; July 11; Sp. p. 2456; Gaz. vol. 168; p. 429.
Denton, Winfield, Leavenworth, Kans. Motor-vehicle. No. 987,119; Mar. 21; Sp. p. 2833; Gaz. vol. 164; p. 522.
Denver Quartz Mill and Crusher Company, The. (See Arnold, Samuel C., assignor.)
Denver Rock Drill and Machinery Company, The. (See Waugh, Daniel S., assignor.)
Depew, Calvin, Milwaukee, Wis., assignor of one-half to J. G. Woodbury, Grand Haven, Mich. Railway-rail joint. No. 1,012,823; Dec. 26; Sp. p. 5395; Gaz. vol. 173; p. 958.
Depew, James I., Loup City, Nebr. Feeding attachment for disk-sharpeners. No. 1,007,850; Nov. 7; Sp. p. 480; Gaz. vol. 172; p. 71.
Depew, Lewis, Phillipsburg, assignor to E. L. Buschman, East Orange, N. J. Automatic weighing and packing machine. No. 981,391; Jan. 10; Sp. p. 2773; Gaz. vol. 162; p. 451.
Depner, Gottlieb, assignor of one-half to G. Depner, Rocklyn, Wash. Fly-trap. No. 1,007,931; Nov. 7; Sp. p. 645; Gaz. vol. 172; p. 100.
Depner, Gustav. (See Depner, Gottlieb, assignor.)
Deppen, Isaac M., Scranton, Pa. Sash-fastener. No. 1,006,365; Oct. 17; Sp. p. 3973; Gaz. vol. 171; p. 692.
Deppen, Otto E., Chattanooga, Tenn. Culvert. No. 1,010,875; Dec. 5; Sp. p. 1061; Gaz. vol. 173; p. 166.
Deprez, Oscar, and A. Richir, Brussels, Belgium. Carbureter. No. 994,985; June 13; Sp. p. 1964; Gaz. vol. 167; p. 344.
Depue, William T., St. Louis, Mich. Spark-arrester. No. 997,761; July 11; Sp. p. 2458; Gaz. vol. 168; p. 429.
Derby, Frank I., Gaston, Ala. Feed-mixer. No. 986,553; Mar. 14; Sp. p. 1696; Gaz. vol. 164; p. 300.
Derbyshire, Frederick W., Chicago, Ill. Making ornamental perforated designs. No. 1,001,514; Aug. 22; Sp. p. 4934; Gaz. vol. 169; p. 891.
Derbyshire, Henry E., and A. A. Longaker, assignors to Chambersburg Engineering Company, Chambersburg, Pa. Power-press. No. 986,809; Mar. 14; Sp. p. 2235; Gaz. vol. 164; p. 387.
Derdeyn, Hector, Jacksonville, Ill. Piano sounding-board. No. 983,125; Jan. 31; Sp. p. 6466; Gaz. vol. 162; p. 1124.
Deremo, Albert H., *et al.* (See Mead, John W., assignor.)
Deretchin, James. (See Raskin and Deretchin.)
Derfinak, Joseph B., Mystic, Conn. Stop-motion for velvet-looms. No. 983,030; Jan. 31; Sp. p. 6277; Gaz. vol. 162; p. 1092.
Derfinak, Joseph B., Mystic, Conn. Pin-setting tool. No. 1,008,246; Nov. 7; Sp. p. 1293; Gaz. vol. 172; p. 211.
Dermiforma Company of America. (See Nowak, Ottokar H., assignor.)
Derosa, Emanuel, San Francisco, Cal. Car-replacer. No. 983,983; Feb. 14; Sp. p. 1594; Gaz. vol. 163; p. 277.
Derr, Frank P., Baltimore, Md. Monorail system. No. 991,050; May 2; Sp. p. 459; Gaz. vol. 166; p. 80.
Derreumaux-Bulteau, Léon, Brussels, Belgium. Apparatus for dyeing fabrics. No. 993,435; May 30; Sp. p. 5592; Gaz. vol. 166; p. 1025.
Derrig, Patrick J., North Weymouth, Mass. Dust-arrester. No. 985,330; Feb. 28; Sp. p. 4488; Gaz. vol. 163; p. 808.
Derrig, Patrick J., North Weymouth, Mass. Combined dust-arrester and gas-cooler. No. 997,762; July 11; Sp. p. 2459; Gaz. vol. 168; p. 429.
Derstine, William A. (See Carpenter, Swartley, and Derstine.)
Des Isles, Leonard H., Chicago, Ill. Fastener for railway-rails. No. 1,006,468; Oct. 24; Sp. p. 4201; Gaz. vol. 171; p. 757.
Descalles, Eugène M. O., assignor to A. Bloch, Paris, France. Permutation-padlock. No. 1,006,366; Oct. 17; Sp. p. 3974; Gaz. vol. 171; p. 692.
Deselle, Charles, Paris, France. Annular gas-furnace with a central pillar. No. 985,251; Feb. 28; Sp. p. 4320; Gaz. vol. 163; p. 781.
Desenberg, Josef, Cologne, Germany. Impulse-wheel. No. 983,984; Feb. 14; Sp. p. 1594; Gaz. vol. 163; p. 278.
Deseniss & Jacobi Aktiengesellschaft. (See Schubert and Burger, assignors.)
Designers Rule Co. (See Gran and Karlson, assignors.)
Desilets, Albert H. (See Birnie and Desilets.)
Desjardins, Ernest, Biddeford, Me. Gravity-latch for sliding doors. No. 1,000,500; Aug. 15; Sp. p. 2748; Gaz. vol. 169; p. 508.
Deslauriers, A. A. (See Harper, Blythe, assignor.)
Desmarais, Léon, Paris, France, assignor to Delahaye and Company Limited, London, England. Means for priming centrifugal pumps. No. 995,846; June 20; Sp. p. 3839; Gaz. vol. 167; p. 668.
Desmolières, Hubert, Raincy, France. Multiple-band belt. No. 1,001,823; Aug. 29; Sp. p. 5601; Gaz. vol. 169; p. 1027.
Desmond, Charles B. (See Axelson and Desmond.)
Desmond, John, Chicago, assignor to Nickel Manufacturing Company, Morris, Ill. Air-pump. No. 985,013; Feb. 21; Sp. p. 3764; Gaz. vol. 163; p. 664.

Desmond, John, assignor to W. S. Potwin, Chicago, Ill. Pumping device. No. 1,007,275; Oct. 31; Sp. p. 5999; Gaz. vol. 171; p. 1095.
Desmond, John, assignor to W. S. Potwin, Chicago, Ill. Making butter. No. 1,007,773; Nov. 7; Sp. p. 270; Gaz. vol. 172; p. 44.
Deso, Eugene, Ware, Mass. Buckle. No. 1,009,486; Nov. 21; Sp. p. 4170; Gaz. vol. 172; p. 718.
Despaigne, Henri, Brussels, Belgium. Screw-bolt-rolling machine. No. 999,634; Aug. 1; Sp. p. 859; Gaz. vol. 169; p. 150.
Dessau, Morland M., London, England. Apparatus for removing foreign matter from india-rubber, gutta-percha, balata, and the like. No. 997,047; July 4; Sp. p. 969; Gaz. vol. 168; p. 155.
Dessau, Morland M., London, England. Apparatus for shaping plastic material such as india-rubber, gutta-percha, and the like. No. 998,474; July 18; Sp. p. 4073; Gaz. vol. 168; p. 722.
Dessau, Morland M., London, England. Apparatus for removing foreign matter from india-rubber, gutta-percha, balata, and the like. No. 999,100; July 25; Sp. p. 5475; Gaz. vol. 168; p. 974.
Destribats, Louis P., Trenton, N. J. Apparatus for forming figured treads on tires. No. 1,007,434; Oct. 31; Sp. p. 6339; Gaz. vol. 171; p. 1151.
Dethier, Louis, Mount Vernon, Ohio. Coupling. No. 991,835; May 9; Sp. p. 2160; Gaz. vol. 166; p. 385.
Dethloff, Frederick L., Buffalo, N. Y. Chalk-holder. No. 983,215; Jan. 31; Sp. p. 6630; Gaz. vol. 162; p. 1153.
Detoy, Louis, and A. P. Shepard, Fresno, Cal. Steaming, drying, and cooling apparatus. No. 998,236; July 18; Sp. p. 3555; Gaz. vol. 168; p. 637.
Detrick, Guy, E. R. Albaugh, J. C. Eicher, and J. M. Naugle, Bellefontaine, Ohio. Sectional map. No. 993,228; May 23; Sp. p. 5157; Gaz. vol. 166; p. 924.
Detroit Auto Specialty Co. (See Kingsley, John H., assignor.)
Detroit Can Company. (See Harbeck, Jervis R., assignor.)
Detroit-Delaware Manufacturing Company. (See Holdaway, William S. and H. H., assignors.)
Detroit Dental Manufacturing Company. (See Greene, Jacob W., assignor.)
Detroit Dental Manufacturing Company. (See Kerr, Mathew M., assignor.)
Detroit Hoist and Machine Company. (See Fleming, Josiah C., assignor.)
Detroit Lubricator Company. (See Hodges, Clarence B., assignor.)
Detroit Screw Works. (See Bray, Albert H., assignor.)
Detroit Steel Products Company. (See Yoe, Henry, assignor.)
Detroit Steering Wheel & Wind Shield Company. (See Galvin, Thaddeus, assignor.)
Detroit Stoker Company. (See Maxlow and Van Vliet, assignors.)
Dette, Robert E., Knoxville borough, Pa. Boring-tool. No. 981,392; Jan. 10; Sp. p. 2775; Gaz. vol. 162; p. 452.
Dette, Robert E., Knoxville, Pa. Tool-holder. No. 992,860; May 23; Sp. p. 4358; Gaz. vol. 166; p. 800.
Dettelbach, Henrietta, *et al.* (See Ruth, Ida M., assignor.)
Dettelbach, William H., Cleveland, Ohio. Support for lavatories, &c. No. 1,010,729; Dec. 5; Sp. p. 731; Gaz. vol. 173; p. 116.
Dettloff, Eugene, Downs, Wash. Weeder. No. 1,005,813; Oct. 17; Sp. p. 2716; Gaz. vol. 171; p. 497.
Dettmar, Ernst, assignor to De La Vergne Machine Company, New York, N. Y. Refrigerating apparatus. No. 1,000,723; Aug. 15; Sp. p. 3253; Gaz. vol. 169; p. 588.
Detweiler, Mervyn J., assignor of one-half to E. S. Kellogg, Helena, Mont. Music-leaf turner. No. 989,130; Apr. 11; Sp. p. 1755; Gaz. vol. 165; p. 306.
Detwiler, Alfred E. (See Walgreen and Detwiler.)
Detwiler, Clayton, Philadelphia, Pa. Rail-joint. No. 993,040; May 23; Sp. p. 4743; Gaz. vol. 166; p. 863.
Detwiler, Forest V., Chicago, Ill. Refrigerator. No. 981,539; Jan. 10; Sp. p. 3076; Gaz. vol. 162; p. 502.
Deubler, Franz, assignor to G. Roth, Aktiengesellschaft, Vienna, Austria-Hungary. Safety device for grenades projecting from small-arms. No. 980,215; Jan. 3; Sp. p. 79; Gaz. vol. 162; p. 15.
Deuchler, John C., Tiffin, Ohio. Nut-lock. No. 1,001,368; Aug. 22; Sp. p. 4678; Gaz. vol. 169; p. 844.
Deucker, William, St. Clair borough, Pa. Curtain-fixture. No. 983,692; Feb. 7; Sp. p. 947; Gaz. vol. 163; p. 150.
Deudon, Laurent E., Elgin, Ill. Table pepper-grinder. No. 997,969; July 18; Sp. p. 2958; Gaz. vol. 168; p. 542.
Deuel, Benjamin F., Mahaffey, Pa. Cork-puller. No. 1,002,374; Sept. 5; Sp. p. 458; Gaz. vol. 170; p. 64.
Deuel, Beverly, Laporte, Ind. Safety razor-guard. No. 993,658; May 30; Sp. p. 6092; Gaz. vol. 166; p. 1103.
Deutsch, Emile, Sierra Madre, Cal. Differential car-axle. No. 989,131; Apr. 11; Sp. p. 1757; Gaz. vol. 165; p. 306.
Deutsche Gasglühlicht Aktien Gesellschaft. (See Schmalland, Hans, assignor.)
Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft). (See Süssmann, Heinrich, assignor.)
Deutsche Waffen- und Munitionsfabriken. (See Sonnberg, Wilhelm, assignor.)
Devan, Andrew, Sandpoint, Idaho, assignor of one-half to T. R. Lynch, Drummond, Mont. Door for grain-cars. No. 992,710; May 16; Sp. p. 4015; Gaz. vol. 166; p. 716.
Devarco, Paul, Newark, N. J. Siphon-bottle. No. 1,010,730; Dec. 5; Sp. p. 733; Gaz. vol. 173; p. 116.
Deville, Albert, Charleville, France. Molding-machine. No. 989,578; Apr. 18; Sp. p. 2750; Gaz. vol. 165; p. 490.
Devine, Robert F., Erie, Pa. Apparatus for handling forgings. No. 980,216; Jan. 3; Sp. p. 80; Gaz. vol. 162; p. 15.
Devitt, Joseph A., Philadelphia, Pa. Car-fender. No. 1,012,336; Dec. 19; Sp. p. 4356; Gaz. vol. 173; p. 746.
Devitt, Paul J. (See Rasmussen, Rudolph C., assignor.)
Devlin, Peter, Baltimore, Md. Window-shutter holder. No. 982,414; Jan. 24; Sp. p. 4938; Gaz. vol. 162; p. 855.
Devos, Albert D. (See Goulet, Jules, assignor.)
Dewees, George W., West Haddonfield, N. J. Spigot-wrench. No. 998,959; July 25; Sp. p. 5184; Gaz. vol. 168; p. 926.
Dewees, William B., Newark, N. J. Dilator. No. 997,907; July 11; Sp. p. 2802; Gaz. vol. 168; p. 479.
Dewes, Abednego, Brooklyn, N. Y. Cutting-die. No. 990,426; Apr. 25; Sp. p. 4635; Gaz. vol. 165; p. 815.
Dewey, Chauncy E., Denver, Colo. Roasting-furnace. No. 992,407; May 16; Sp. p. 3404; Gaz. vol. 166; p. 613.
Dewey, Rodney C., Hoytville, Ohio. Annunciator for explosive-engines. No. 989,132; Apr. 11; Sp. p. 1758; Gaz. vol. 165; p. 307.
Dewey, Ruel E., Grand Rapids, Mich. Thermostat damper-regulator. No. 1,011,328; Dec. 12; Sp. p. 2112; Gaz. vol. 173; p. 360.
Dewing, Fred M. (See Mundy, Gale, and Dewing.)
Dewitt, Philip F. (See Clarke and Dewitt.)
Dewrance, John, Southwark, England. Pressure-gage. No. 987,219; Mar. 21; Sp. p. 3085; Gaz. vol. 164; p. 559.
Dexter, Carl J., West Lafayette, Ind. Shoe-holder. No. 996,066; June 27; Sp. p. 4293; Gaz. vol. 167; p. 779.
Dexter Folder Company. (See Dexter, Talbot C., assignor.)
Dexter Folder Company. (See Dexter and Garner, assignors.)
Dexter Folder Company. (See Dexter and Holdt, assignors.)
Dexter Folder Company. (See Dexter and McCain, assignors.)
Dexter, George B., Brookline, Mass. Device for restoring nap to fabrics. No. 992,175; May 16; Sp. p. 2855; Gaz. vol. 166; p. 532.
Dexter, Irvin H., and G. H. Holdt, Pearl River, N. Y., assignors to Dexter Folder Company. Paper-cutting machine. No. 996,469; June 27; Sp. p. 5223; Gaz. vol. 167; p. 916.
Dexter, Nathaniel W., and W. B. Mather, Los Angeles, Cal., assignors to United States Electrographic Company. Projection apparatus. No. 1,009,897; Nov. 28; Sp. p. 4987; Gaz. vol. 172; p. 901.
Dexter, Ralph, *et al.* (See Anderson, Gustave, assignor.)
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Slow-down mechanism for sheet-conveying machines. No. 985,014; Feb. 21; Sp. p. 3765; Gaz. vol. 163; p. 664.
Dexter, Talbot C., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-cutting machine. No. 994,637; June 6; Sp. p. 1131; Gaz. vol. 167; p. 184.
Dexter, Talbot C., Pearl River, assignor to Dexter Folder Company, New York, N. Y. Pamphlet-feeding device for stapling-machines. No. 1,010,124; Nov. 28; Sp. p. 5461; Gaz. vol. 172; p. 979.
Dexter, Talbot C., and W. M. McCain, assignors to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 998,960; July 25; Sp. p. 5185; Gaz. vol. 168; p. 926.
Dexter, Talbot C., and V. Garner, assignors to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 998,961; July 25; Sp. p. 5190; Gaz. vol. 168; p. 926.
Deysher, William L. (See McLaughlin, John A., assignor.)
Deziel, John H., assignor to D. La Roche, Stillwater, Minn. Shoe-lasting machine. No. 997,652; July 11; Sp. p. 2205; Gaz. vol. 168; p. 390.
Dhooge, Frank S. (See Grimm and Dhooge.)
Di Carlo, Donato, Philadelphia, Pa. Spring-controlled motor for operating fans or other similar devices. No. 998,757; July 25; Sp. p. 4718; Gaz. vol. 168; p. 854.
Diack, Archibald W., Detroit, Mich. Pyrometer. No. 1,000,673; Aug. 15; Sp. p. 3152; Gaz. vol. 169; p. 571.
Diagraph Company, The. (See Hartog, Stephen D., assignor.)
Diamond Concrete Machinery Company. (See Diamond, Palmer D., assignor.)
Diamond Crystal Salt Company. (See Weil, Charles L., assignor.)
Diamond Decorative Leaf Company. (See Fichtmueller, Julius A. C., assignor.)
Diamond Electric Water Heater Co. (See Burns, Herbert A., assignor.)
Diamond, James K., assignor to J. B. Stone Company, Grand Rapids, Mich. Belt-lacing machine. No. 1,012,614; Dec. 26; Sp. p. 4912; Gaz. vol. 173; p. 884.
Diamond Machine Company. (See Wight, Everett W., assignor.)

Diamond Match Company, The. (See Palmer and Denmead, assignors.)
Diamond Match Company, The. (See Wright, Jacob P., assignor.)
Diamond, Palmer D., assignor to Diamond Concrete Machinery Company, Chicago, Ill. Building-block. No. 990,119; Apr. 18; Sp. p. 3897; Gaz. vol. 165; p. 673.
Diamond Power Specialty Co. (See Mattsson, Alfred G., assignor.)
Diamond Power Specialty Company. (See Barnhill, Edward B., assignor.)
Diamond Power Specialty Company. (See Standish, Edward K., assignor.)
Diamond Power Specialty Company. (See Waller, Thomas S., assignor.)
Diamond Power Specialty Company. (See Waller and Barnhill, assignors.)
Diamond Steel Truck Company. (See Kenyon, Bertrand P., assignor.)
Diaz, Joseph F., assignor of one-half to P. Salina, San Francisco, Cal. Pressure flush-valve. No. 1,001,256; Aug. 22; Sp. p. 4420; Gaz. vol. 169; p. 803.
Diaz, Manuel G., Carthagena, and A. Azarola y Gresillon, Madrid, Spain. Current-limiting device. No. 1,001,737; Aug. 29; Sp. p. 5417; Gaz. vol. 169; p. 998.
Dice, Alvin, assignor to T. C. Prouty Company, Albion, Mich. Spring-hinge. No. 985,790; Mar. 7; Sp. p. 48; Gaz. vol. 164; p. 10.
Dichmann, William, Oshkosh, Wis. Pad-making machine. No. 987,440; Mar. 21; Sp. p. 3551; Gaz. vol.164; p. 633.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Printing-machine. No. 997,245; July 4; Sp. p. 1357; Gaz. vol. 168; p. 228.
Dick, Albert B., Lake Forest, assignor to A. B. Dick Company, Chicago, Ill. Stencil-duplicating apparatus. No. 1,001,824; Aug. 29; Sp. p. 5603; Gaz. vol. 169; p. 1028.
Dick, Carl R., New Smyrna, Fla. Automatic safety air and steam coupling. No. 989,489; Apr. 11; Sp. p. 2522; Gaz. vol. 165; p. 427.
Dick, William A., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator. No. 984,125; Feb. 14; Sp. p. 1891; Gaz. vol. 163; p. 325.
Dick, William A., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 992,943; May 23; Sp. p. 4542; Gaz. vol. 166; p. 830.
Dick, William A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 1,010,126; Nov. 28; Sp. p. 5466; Gaz. vol. 172; p. 979.
Dickason, Frank B., assignor of one-half to A. J. Schmidt, Shreveport, La. Tintype-machine. No. 994,064; May 30; Sp. p. 6911; Gaz. vol. 166; p. 1241.
Dicke, Hugo, assignor to J. E. Goldschmid, Frankfort-on-the-Main, Germany. Refining and agglomerating ores and the like. No. 986,271; Mar. 7; Sp. p. 1076; Gaz. vol. 164; p. 172.
Dickens, John, Passaic, N. J. Air-pump. No. 982,660; Jan. 24; Sp. p. 5446; Gaz. vol. 162; p. 939.
Dickens, John, Passiac, N. J. Oil-gun. No. 982,661; Jan. 24; Sp. p. 5449; Gaz. vol. 162; p. 940.
Dickerman, Charles L., and W. Newman, Ardmore, Okla. Gas-stove. No. 990,239; Apr. 25; Sp. p. 4194; Gaz. vol. 165; p. 747.
Dickerson, Arthur, American Fork, Utah, assignor to Dickerson Automatic Governor Company. Water-governor. No. 983,216; Jan. 31; Sp. p. 6632; Gaz. vol. 162; p. 1153.
Dickerson Automatic Governor Company. (See Dickerson, Arthur, assignor.)
Dickerson, E. N. (See Kendall, Edward D., assignor.)
Dickert, Curtis L., assignor of one-half to C. W. Rice, Macon, Ga. Stop for throttle-valve levers. No. 1,004,388; Sept. 26; Sp. p. 4843; Gaz. vol. 170; p. 855.
Dickert, Curtis L., and C. W. Rice, Macon, Ga. Latch. No. 991,959; May 9; Sp. p. 2403; Gaz. vol. 166; p. 427.
Dickey, George W., assignor of one-half to G. W. Dickey, Portland, Me., and one-half to E. Spear, Jr., Boston, Mass. Manifolding-sheets. No. 998,078; July 18; Sp. p. 3208; Gaz. vol. 168; p. 581.
Dickey, John S., Collinsville, Tex. Cultivator-foot adjuster. No. 984,650; Feb. 21; Sp. p. 3046; Gaz. vol. 163; p. 539.
Dickey, John W. (See Lampman, Henry F., assignor.)
Dickey, Laurence P., Philadelphia, Pa. Pilot-light valve. No. 995,666; June 20; Sp. p. 3431; Gaz. vol. 167; p. 605.
Dickey, Laurence P., Philadelphia, Pa. Insulating-spacer. No. 1,004,685; Oct. 3; Sp. p. 291; Gaz. vol. 171; p. 49.
Dickinson, Charles H., Coldwater, Mich. Mail-order advertising and coin-return device. No. 984,889; Feb. 21; Sp. p. 3522; Gaz. vol. 163; p. 623.
Dickinson, Edwin C., Talcott, W. Va. Gate-latch. No. 1,002,044; Aug. 29; Sp. p. 6094; Gaz. vol. 169; p. 1101.
Dickinson, Frank T., Chicago, Ill. Brake-shoe. No. 996,623; July 4; Sp. p. 60; Gaz. vol. 168; p. 11.
Dickinson, J. E., *et al.*, trustees. (See Converse, Newton B., assignor.)
Dickinson, Joseph H. (See Miller and Dickinson.)
Dickinson, Joseph H., Montclair, N. J. Portable cableway. No. 984,514; Feb. 14; Sp. p. 2720; Gaz. vol. 163; p. 456.
Dickinson, Linus W. (See Atkinson, Wiley W., assignor.)
Dickinson, William A., Mitcham, England. Treatment of fibrous materials. No. 998,237; July 18; Sp. p. 3557; Gaz. vol. 168; p. 638.
Dickinson, William N., Jr., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety device for alternating-current hoisting apparatus. No. 981,919; Jan. 17; Sp. p. 3901; Gaz. vol. 162; p. 655.
Dickinson, William N., Jr., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Motor control. No. 982,041; Jan. 17; Sp. p. 4183; Gaz. vol. 162; p. 697.
Dickinson, William N., Jr., Brooklyn, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Current-controlling apparatus. No. 987,441; Mar. 21; Sp. p. 3552; Gaz. vol. 164; p. 634.
Dickinson, William N., Jr., Brooklyn, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electrodynamic brake for alternating-current motors. No. 1,002,233; Sept. 5; Sp. p. 89; Gaz. vol. 170; p. 11.
Dickman, John T., Los Angeles, Cal. Target. No. 1,003,588; Sept. 19; Sp. p. 3060; Gaz. vol. 170; p. 552.
Dicks, William. (See Williams and Dicks.)
Dickson, Charles, New York, N. Y. Cigar-lighter. No. 1,006,447; Oct. 17; Sp. p. 4143; Gaz. vol. 171; p. 720.
Dickson, George F. (See Dickson, James G., assignor.)
Dickson, James G., assignor of one-half to G. F. Dickson, Chicago, Ill. Wax-melter. No. 1,007,188; Oct. 31; Sp. p. 5829; Gaz. vol. 171; p. 1064.
Dickson, James G., Little Rock, Ark, assignor to Dixn Manufacturing Company, Greenwood, Miss. Cleaning mechanism for saw-gins. No. 1,010,731; Dec. 5; Sp. p. 734; Gaz. vol. 173; p. 116.
Dickson, James G., Little Rock, Ark., assignor to Dixn Manufacturing Company, Greenwood, Miss. Saw-gin. No. 1,010,732; Dec. 5; Sp. p. 736; Gaz. vol. 173; p. 116.
Dickson, Myron, Martinsville, Ind. Nail-driver. No. 982,801; Jan. 31; Sp. p. 5758; Gaz. vol. 162; p. 1015.
Didierjean, Nicolas A., St. Quentin, France. Separable fastener. No. 980,615; Jan. 3; Sp. p. 941; Gaz. vol. 162; p. 152.
Diebitsch, Emil, Nutley, N. J. Subway construction. No. 1,002,904; Sept. 12; Sp. p. 1632; Gaz. vol. 170; p. 282.
Diebold, John C., Louisville, Ky. Slush-feeding apparatus. No. 988,177; Mar. 28; Sp. p. 5150; Gaz. vol. 164; p. 913.
Diebolt, Lewis T., assignor of one-half to F. L. Hartwick, Logansport, Ind. Curtain and shade support. No. 989,951; Apr. 18; Sp. p. 3567; Gaz. vol. 165; p. 618.
Dieckman, Fred A., Manitowoc, Wis. Adjustment device for locomotive bearing-boxes. No. 1,012,610; Dec. 26; Sp. p. 4905; Gaz. vol. 173; p. 883.
Dieckmann, Adolph, Cincinnati, Ohio. Mechanism for forming sheet-metal elbows. No. 1,010,733; Dec. 5; Sp. p. 739; Gaz. vol. 173; p. 117.
Diederich, Henry C., Indianapolis, Ind. Wood-turner's tool-rest. No. 988,630; Apr. 4; Sp. p. 737; Gaz. vol. 165; p. 117.
Diedrich, Albert B., Detroit, Mich. Lever-lock. No. 997,970; July 18; Sp. p. 2959; Gaz. vol. 168; p. 543.
Diefenbach, John C., Cincinnati, Ohio, assignor to The Whitehead & Hoag Company, Newark, N. J. Scale for indicating standard-last measurements. No. 998,603; July 25; Sp. p. 4362; Gaz. vol. 168; p. 799.
Diehl, Arthur V., Englewood, N. J. Electric sign. No. 982,352; Jan. 24; Sp. p. 4812; Gaz. vol. 162; p. 834.
Diehl, Charles, Egg Harbor City, N. J. Pipe-joint. No. 1,006,067; Oct. 17; Sp. p. 3281; Gaz. vol. 171; p. 586.
Diehl, Charles, Egg Harbor City, N. J. Smoke-pipe collar. No. 1,006,448; Oct. 17; Sp. p. 4144; Gaz. vol. 171; p. 720.
Diehl, Daniel J., York, Pa. Bolt and lock nut. No. 1,001,369; Aug. 22; Sp. p. 4679; Gaz. vol. 169; p. 845.
Diehl Manufacturing Company. (See Marx, Gustave C., assignor.)
Diehl, Nicholas. (See Klein, Theobald, assignor.)
Diehl, Philip, and H. Eichhorn, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Ball-bearing pitman. No. 997,376; July 11; Sp. p. 1638; Gaz. vol. 168; p. 297.
Diehl, William J., Charlesville, Pa. Rail-joint. No. 984,546; Feb. 21; Sp. p. 2815; Gaz. vol. 163; p. 503.
Diem, Theodore. (See Ryan and Diem.)
Diemer, Gustav H., Trinidad, Colo. Mail-box alarm. No. 1,005,004; Oct. 3; Sp. p. 955; Gaz. vol. 171; p. 159.
Dierks, Emil H., Bryant, Iowa. Trap. No. 996,067; June 27; Sp. p. 4294; Gaz. vol. 167; p. 779.
Diescher, Alfred J., Pittsburg, Pa. Apparatus for registering the flow of fluids. No. 986,048; Mar. 7; Sp. p. 628; Gaz. vol. 164; p. 101.
Diescher, Samuel E. (See Mesta and Diescher.)
Diescher, Samuel E., Pittsburg, Pa. Piercing-mill and the like. No. 999,757; Aug. 8; Sp. p. 1119; Gaz. vol. 169; p. 221.
Diesser, Gottlieb G., Zurich-Wollishafen, Switzerland. Substances to be used as varnishes and for impregnation and insulation and method for their production. No. 981,178; Jan. 10; Sp. p. 2282; Gaz. vol. 162; p. 377.

Alphabetical list of patentees—Continued.

Diestelmeier, August, and J. H. Wolf, Lena, Ill. Stalk-cutting attachment for disk cultivators. No. 1,005,697; Oct. 10; Sp. p. 2482; Gaz. vol. 171; p. 426.
Dietel, Lewis E. (See La Tier and Dietel.)
Dieterich, Albert E. (See Dieterich, Fred G. and A. E.)
Dieterich, Fred G. and A. E., Washington, D. C. Aviation-motor. No. 990,712; Apr. 25; Sp. p. 5276; Gaz. vol. 165; p. 910.
Dieterle, Edward A., Seattle, Wash. Apparatus for enriching gas. No. 985,015; Feb. 21; Sp. p. 3769; Gaz. vol. 163; p. 665.
Diethelm, John, New York, N. Y. Music-leaf turner. No. 1,005,174; Oct. 10; Sp. p. 1287; Gaz. vol. 171; p. 239.
Dietrich, Charles, Janesville, Wis. Three-horse evener. No. 1,011,329; Dec. 12; Sp. p. 2114; Gaz. vol. 173; p. 361.
Dietrich, Oliver E., Bremen, Ind. Bolt and nut lock. No. 987,705; Mar. 28; Sp. p. 4117; Gaz. vol. 164; p. 753.
Dietrick, Lyman A., Buffalo, N. Y. Metal pulp-straining vat. No. 981,249; Jan. 10; Sp. p. 2476; Gaz. vol. 162; p. 402.
Dietsch, Curt O., and T. Kurrell, Los Angeles, Cal. Dispensing apparatus. No. 1,005,519; Oct. 10; Sp. p. 2064; Gaz. vol. 171; p. 363.
Dietz, Bernard R., Canterbury, England. Military signaling apparatus. No. 995,334; June 13; Sp. p. 2680; Gaz. vol. 167; p. 459.
Dietz, Gustav, Yonkers, assignor to The Multi Speed Shutter Company, New York, N. Y. Focus-finder. No. 997,377; July 11; Sp. p. 1640; Gaz. vol. 168; p. 297.
Dietz, Gustav, Yonkers, assignor to The Multi Speed Shutter Company, New York, N. Y. Photographic shutter. No. 997,378; July 11; Sp. p. 1642; Gaz. vol. 168; p. 297.
Dietz, Louis E., Cincinnati, Ohio. Operating mechanism. No. 999,758; Aug. 8; Sp. p. 1121; Gaz. vol. 169; p. 222.
Dietz, Rose M., Pittsburg, Pa. Maternity-skirt. No. 1,000,155; Aug. 8; Sp. p. 1992; Gaz. vol. 169; p. 357.
Dietz, William, assignor to McCord & Company, Chicago, Ill. Lubricator. No. 1,011,330; Dec. 12; Sp. p. 2116; Gaz. vol. 173; p. 361.
Dietz, William, assignor to McCord & Company, Chicago, Ill. Force-feed lubricator. No. 1,011,331; Dec. 12; Sp. p. 2120; Gaz. vol. 173; p. 362.
Dietze, Emil, Jr., East New York, assignor to E. B. Brady, New York, N. Y. Acetylene-gas generator. No. 993,041; May 23; Sp. p. 4744; Gaz. vol. 166; p. 863.
Diez, Edwin F., St. Louis, Mo. Cushion-heel for boots and shoes. No. 1,011,760; Dec. 12; Sp. p. 3055; Gaz. vol. 173; p. 511.
Diffenbaugh, Lizabeth A., Freeport, Ill. Undergarment. No. 991,960; May 9; Sp. p. 2405; Gaz. vol. 166; p. 427.
Diffenderfer, Harry K., Lancaster, Pa., assignor to Lancaster Sanitary Appliance Company. Air filter and purifier. No. 997,442; July 11; Sp. p. 1755; Gaz. vol. 168; p. 318.
Differential Power Clock Company. (See Busenbenz, Jacob J., assignor.)
Digan, James F., assignor to Logansport Radiator Equipment Company, Logansport, Ind. Metal-founder's mold. No. 987,442; Mar. 21; Sp. p. 3557; Gaz. vol. 164; p. 634.
Digby, William P., and C. W. V. Biggs, London, England. Method and apparatus for determining the amount of impurities in fluids. No. 993,586; May 30; Sp. p. 5912; Gaz. vol. 166; p. 1077.
Dikkers, Gerrit J. O. D., Lonneker, Netherlands. Steam-actuated valve. No. 993,293; May 23; Sp. p. 5260; Gaz. vol. 166; p. 944.
Dilg, Charles H. J., New York, N. Y. Machine for washing dishes. No. 982,578; Jan. 24; Sp. p. 5282; Gaz. vol. 162; p. 912.
Dilg, Charles H. J., and J. O. Fowler, New York, N. Y., assignors to Granulator Soap Company. Cake of soap. No. 999,210; Aug. 1; Sp. p. 36; Gaz. vol. 169; p. 8.
Dilg, Charles H. J., and J. O. Fowler, New York, N. Y., assignors to Granulator Soap Company. Cake of soap. No. 999,211; Aug. 1; Sp. p. 38; Gaz. vol. 169; p. 9.
Dilger, Loren L. (See Dilger, Theodore H. and L. L.)
Dilger, Theodore H. and L. L., Lamar, Ind. Strainer. No. 988,291; Mar. 28; Sp. p. 5377; Gaz. vol. 164; p. 951.
Dilks, Frank W., Philadelphia, Pa., D. Reyam and E. E. Du Pont, assignors to The International Radiator Company, Wilmington, Del. Automobile-heater. No. 999,487; Aug. 1; Sp. p. 576; Gaz. vol. 169; p. 100.
Dilks, Frank W., Philadelphia, Pa., D. Reyam and E. E. Du Pont, assignors to The International Radiator Company, Wilmington, Del. Radiator. No. 1,008,707; Nov. 14; Sp p. 2441; Gaz. vol. 172; p. 412.
Dill, George, Oakes, N. D. Fly-trap. No. 1,009,387; Nov. 21; Sp. p. 3955; Gaz. vol. 172; p. 684.
Dill, Orpheus K., Cambridge City, Ind. Holder for anchoring staples to cement posts. No. 1,009,487; Nov. 21; Sp. p. 4171; Gaz. vol. 172; p. 718.
Dillemuth, Carrie D. (See Mack, William J., assignor.)
Diller, Charles F., Lancaster, Pa. Furnace. No. 989,580; Apr. 18; Sp. p. 2766; Gaz. vol. 165; p. 491.
Diller Manufacturing Company, The. (See Kibele, Hector, assignor.)
Dilley, Wesley Y., *et al.* (See Gambill and Woods, assignors.)
Dillhoff, Clemens, Pittsburgh, Pa. Valve-releasing tool. No. 1,006,185; Oct. 17; Sp. p. 3559; Gaz. vol. 171; p. 630.
Dilliard, William M., Bethlehem, Pa. Third-rail brake. No. 987,052; Mar. 14; Sp. p. 2711; Gaz. vol. 164; p. 469.
Dillingham, Frederick A., assignor to The Troy Carriage Sun Shade Company, Troy, Ohio. Wind-shield. No. 1,007,774; Nov. 7; Sp. p. 272; Gaz. vol. 172; p. 44.
Dillon, Albert, Aitch, Ohio. Rail tie and fastener. No. 1,010,601; Dec. 5; Sp. p 456; Gaz. vol. 173; p. 71.
Dillon, Bernard C., New Haven, Conn. Combination-tool. No. 987,120; Mar. 21; Sp. p. 2835; Gaz. vol. 164; p. 522.
Dillon, Charles A., assignor to The United Electric Company, Canton, Ohio. Vacuum-cleaner. No. 1,005,005; Oct. 3; Sp. p. 956; Gaz. vol. 171; p. 159.
Dillon, Francis, Dillon Port, Ontario, Canada. Boat and like vessel. No. 1,005,698; Oct. 10; Sp. p. 2483; Gaz. vol. 171; p. 426.
Dillon, Jesse J., Council Bluffs, Iowa. Flying-machine. No. 1,011,761; Dec. 12; Sp. p. 3057; Gaz. vol. 173; p. 511.
Dillon, John T., Lawrence, Mass. Calendering-machine doctor. No. 1,005,175; Oct. 10; Sp. p. 1289; Gaz. vol. 171; p. 240.
Dillon, Sydney, Edgewood Park, and E. E. Slick, Pittsburg, Pa. Sawing apparatus. No. 999,212; Aug. 1; Sp. p. 41; Gaz. vol. 169; p. 9.
Dillon, Washington M., Sterling, and D. H. Little, Rock Falls, Ill.; said Little assignor to said Dillon. Hoisting device. No. 987,348; Mar. 21; Sp. p. 3357; Gaz. vol. 164; p. 603.
Dillon, Washington M., Sterling, and W. W. Lincoln, Rock Falls, Ill.; said Lincoln assignor to said Dillon. Wire-fence machine. No. 1,010,734; Dec. 5; Sp. p. 743; Gaz. vol. 173; p. 117.
Dillon, William A. (See Wallace, Porter, and Dillon.)
Dillon, William L., Council Bluffs, Iowa. Expansible column. No. 995,444; June 20; Sp. p. 2942; Gaz. vol. 167; p. 525.
Dils, Logan A., assignor of one-half to A. A. Miller, Centralia, Wash. Amusement device. No. 992,343; May 16; Sp. p. 3277; Gaz. vol. 166; p. 590.
Dils, Logan A., assignor of one-half to A. A. Miller, Centralia, Wash. Liquid-soap container. No. 994,250; June 6; Sp. p. 306; Gaz. vol. 167; p. 53.
Dilworth, Edward C., Pittsburg, Pa. Adding device. No. 990,240; Apr. 25; Sp. p. 4195; Gaz. vol. 165; p. 748.
Dime Savings & Trust Co. *et al.*, executors. (See Meyer and Harms.)
Dimelow, James, assignor to Dentists' Supply Company, York, Pa. Machine for making tooth-pin anchors. No. 1,005,006; Oct. 3; Sp. p. 958; Gaz. vol. 171; p. 160.
Dimick, Charles W., Cambridge, Mass. Target for rifle-firing practice. No. 994,986; June 13; Sp. p. 1966; Gaz. vol. 167; p. 344.
Dimmick, Jacob K., Philadelphia, Pa. Core for hollow castings. No. 993,156; May 23; Sp. p. 4987; Gaz. vol. 166; p. 902.
Dinardo, Peter A., Meriden, Conn. Hose-protector. No. 991,201; May 2; Sp. p. 796; Gaz. vol. 166; p. 135.
Dinckels, Jacob, Mainz, Germany. Evaporator. No. 984,265; Feb. 14; Sp. p. 2216; Gaz. vol. 163; p. 374.
Dineen, John, Chicago, Ill. Artificial bait. No. 998,238; July 18; Sp. p. 3559; Gaz. vol. 168; p. 638.
Dingfelder, Max, Detroit, Mich. Flying-machine. No. 991,770; May 9; Sp. p. 2012; Gaz. vol. 166; p. 362.
Dingley, Benjamin F., Silver Spring, assignor to E. C. Baker, Providence, R. I. Rotary burnishing-tool. No. 1,010,127; Nov. 28; Sp. p. 5468; Gaz. vol. 172; p. 980.
Dings, Alvin, assignor to Dings-Electro Magnetic Separator Co., Milwaukee, Wis. Magnetic separator. No. 986,554; Mar. 14; Sp. p. 1698; Gaz. vol. 164; p. 300.
Dings, Alvin and M., assignors to Dings Electro-Magnetic Separator Co., Milwaukee, Wis. Magnetic separator. No. 983,881; Feb. 14; Sp. p. 1362; Gaz. vol. 163; p. 245.
Dings Electro-Magnetic Separator Co. (See Dings, Alvin and M., assignors.)
Dings, Myron. (See Dings, Alvin and M.)
Dininny, Ferral C., Suffern, N. Y. Match-splint carrier. No. 1,002,827; Sept. 12; Sp. p. 1430; Gaz. vol. 170; p. 255.
Dinkey, Alva C., Pittsburg, Pa. Insulated metal cross-tie. No. 984,802; Feb. 21; Sp. p. 3366; Gaz. vol. 163; p. 594.
Dinkins, John M. (See Hays and Dinkins.)
Dinsmoor, John L., Brooklyn, assignor of one-half to H. M. Hirschberg, New York, N. Y. Seal. No. 998,878; July 25; Sp. p. 4996; Gaz. vol. 168; p. 897.
Dinsmoor, John L., Brooklyn, assignor of one-half to H. M. Hirschberg, New York, N. Y. Seal. No. 998,879; July 25; Sp. p. 5000; Gaz. vol. 168; p. 897.
Dinsmore, Sanford C. (See Jacobson and Dinsmore.)
Dinuccio, Camillo, Providence, R. I. Identification-ring. No. 984,803; Feb. 21; Sp. p. 3367; Gaz. vol. 163; p. 594.
Dion, Albert de, and G. Bouton, Puteaux, France. Running-gear for vehicles. No. 991,051; May 2; Sp. p. 460; Gaz. vol. 166; p. 80.
Dion, Léon, Wilkes-Barre, Pa. Drum for marine propulsion. No. 1,004,633; Oct. 3; Sp. p. 181; Gaz. vol. 171; p. 32.
Direct-Line General Telephone Company. (See Andriano, Albert K., assignor.)

Alphabetical list of patentees—Continued.

Direct Separator Company, The. (See Sweet, John E., assignor.)
Dirkes, Henry A., New York, N. Y. Ventilator. No. 996,320; June 27; Sp. p. 4894; Gaz. vol. 167; p. 864.
Dirmann, Anthony, New York, N. Y. Feeding-off device for sewing-machines. No. 985,733; Feb. 28; Sp. p. 5399; Gaz. vol. 163; p. 946.
Disbrow, Reuben B., Owatonna, Minn. Combined churn and butter-worker. No. 981,394; Jan. 10; Sp. p. 2779; Gaz. vol. 162; p. 452.
Diserens, Ralph F., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Measuring liquid-pump. No. 1,009,725; Nov. 28; Sp. p. 4642; Gaz. vol. 172; p. 843.
Dishong, Chester D., Johnstown, Pa. Housing for roller-straightening presses. No. 987,443; Mar. 21; Sp. p. 3558; Gaz. vol. 164; p. 634.
Diskin, Moses B., New York, N. Y. Means for applying paste to the coverings for boxes. No. 985,574; Feb. 28; Sp. p. 5041; Gaz. vol. 163; p. 892.
Disler, Frank. (See Connors, Patrick J., assignor.)
Disler, Mahlon M., Canton, Ohio. Electric switch-box. No. 990,120; Apr. 18; Sp. p. 3898; Gaz. vol. 165; p. 674.
Dismuke, W. H., *et al.* (See Morton, Frank M., assignor.)
Dissett, John H., Buffalo, N. Y. Clinometer. No. 1,012,993; Dec. 26; Sp. p. 5795; Gaz. vol. 173; p. 1014.
Distler, Frank, assignor of one-third to J. G. Hall and one-third to W. Spade, O'Fallon, Ill. Bottle-case. No. 1,008,447; Nov. 14; Sp. p. 1855; Gaz. vol. 172; p. 319.
District of Columbia Paper Manufacturing Company. (See Smith and Mann, assignors.)
Ditchfield, Frank, trustee. (See Kennedy, William, assignor.)
Ditchfield, Frank, Montreal, Quebec, Canada. Car-door-operating mechanism. No. 988,983; Apr. 11; Sp. p. 1443; Gaz. vol. 165; p. 255.
Ditchfield, Frank, Montreal, Quebec, Canada. Dump-car. No. 1,009,957; Nov. 28; Sp. p. 5110; Gaz. vol. 172; p. 922.
Ditmars, Frederick R. S., assignor of two-thirds to W. C. Renfrow, Kansas City, Mo. Moistener and sealer for envelops. No. 982,353; Jan. 24; Sp. p. 4815; Gaz. vol. 162; p. 834.
Ditmars, Frederick R. S., assignor of two-thirds to W. C. Renfrow, Kansas City, Mo. Stamp-affixing and envelop-sealing machine. No. 1,001,001; Aug. 22; Sp. p. 3890; Gaz. vol. 169; p. 718.
Ditmer, Willis W., Bartlett, N. D. Dumping-wagon rack. No. 987,121; Mar. 21; Sp. p. 2836; Gaz. vol. 164; p. 522.
Dittmar, John, New York, N. Y. Fish-grip. No. 1,006,367; Oct. 17; Sp. p. 3979; Gaz. vol. 171; p. 693.
Dittmar, William H. (See Drexler and Dittmar.)
Ditzel, Richard R., Los Angeles, Cal. Combined rail-chair and joint-lock. No. 999,552; Aug. 1; Sp. p. 712; Gaz. vol. 169; p. 122.
Divine, Charles A. (See Mason, Richard F., assignor.)
Divok, Allexander F., assignor of one-half to S. Strauss, Pittsburg, Pa. Smoke-consumer for furnaces. No. 984,360; Feb. 14; Sp. p. 2396; Gaz. vol. 163; p. 405.
Dix, Richard, Carey, Idaho. Land-leveler. No. 992,117; May 9; Sp. p. 2711; Gaz. vol. 166; p. 479.
Dixey, John, Chicago, Ill. Adjustable car-partition. No. 986,810; Mar. 14; Sp. p. 2238; Gaz. vol. 164; p. 388.
Dixn Manufacturing Company. (See Dickson, James G., assignor.)
Dixon, Amos F., New York, N. Y., assignor to Western Electric Company, Chicago, Ill. Selector mechanism. No. 989,133; Apr. 11; Sp. p. 1760; Gaz. vol. 165; p. 307.
Dixon, Amos F., Newark, N. J., and R. R. Ireland, assignors to Western Electric Company, New York, N. Y. Key-space. No. 981,846; Jan. 17; Sp. p. 3723; Gaz. vol. 162; p. 630.
Dixon, Charles, *et al.* (See Paul, Arthur B., assignor.)
Dixon, Ezra, Bristol, R. I. Spinning-machine. No. 983,609; Feb. 7; Sp. p. 765; Gaz. vol. 163; p. 120.
Dixon, Ezra, Bristol, R. I. Weight-lever for spinning-machines. No. 990,806; Apr. 25; Sp. p. 5477; Gaz. vol. 165; p. 943.
Dixon, George, Bolton, England. Valve-operating gear for steam-engines. No. 1,009,652; Nov. 21; Sp. p. 4472; Gaz. vol. 172; p. 771.
Dixon, Henry L., Knoxville, Pa. Handling glass. No. 1,002,234; Sept. 5; Sp. p. 96; Gaz. vol. 170; p. 11.
Dixon, Henry L., Knoxville, Pa. Glass-furnace. No. 1,002,375; Sept. 5; Sp. p. 459; Gaz. vol. 170; p. 64.
Dixon, Jay J., Warren, Pa. Wrench. No. 996,841; July 4; Sp. p. 489; Gaz. vol. 168; p. 81.
Dixon, Jay J., and J. J. Goodard, Warren, Pa. Temper-screw. No. 1,012,994; Dec. 26; Sp. p. 5796; Gaz. vol. 173; p. 1014.
Dixon, John. (See Lawrence, Josiah C. F., assignor.)
Dixon, John F., Wylde Green, England. Loose-leaf binder. No. 986,911; Mar. 14; Sp. p. 2456; Gaz. vol. 164; p. 424.
Dixon, John F., Susquehanna, Pa. Vending-machine. No. 1,000,788; Aug. 15; Sp. p. 3401; Gaz. vol. 169; p. 611.
Dixon, Napoleon B., Dixie, Ala. Siding plow or cultivator. No. 988,865; Apr. 4; Sp. p. 1213; Gaz. vol. 165; p. 194.
Dixon, Napoleon B., Andalusia, Ala. Plant-protector. No. 989,341; Apr. 11; Sp. p. 2229; Gaz. vol. 165; p. 378.
Dixon, Oliver. (See Wise, Henry, assignor.)
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Gas-lighting apparatus. No. 986,369; Mar. 7; Sp. p. 1290; Gaz. vol. 164; p. 208.
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Heating system. No. 989,581; Apr. 18; Sp. p. 2769; Gaz. vol. 165; p. 491.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Shade. No. 994,577; June 6; Sp. p. 991; Gaz. vol. 167; p. 164.
Dixon, Robert M., East Orange, N. J., assignor to The Safety Car Heating & Lighting Company. Steam-jacket. No. 994,638; June 6; Sp. p. 1135; Gaz. vol. 167; p. 185.
Dixon, Robert M., East Orange, N. J., assignor to Safety Car Heating & Lighting Company. Hose appliance. No. 1,004,634; Oct. 3; Sp. p. 183; Gaz. vol. 171; p. 32.
Dixon, Sherman. (See Seneff and Dixon.)
Dixon, Warner S., Richmond Dale, Ohio. Fruit-parer. No. 989,896; Apr. 18; Sp. p. 3433; Gaz. vol. 165; p. 598.
Dixon, William, Newport, R. I. Trousers' creaser and stretcher. No. 1,003,039; Sept. 12; Sp. p. 1895; Gaz. vol. 170; p. 327.
Doan, Lachlan M., Gypsum Mines, Ontario, Canada. Row-boat. No. 982,202; Jan. 17; Sp. p. 4473; Gaz. vol. 162; p. 750.
Doan, Lachlan M., Gypsum Mines, Ontario, Canada. Row-boat. No. 997,971; July 18; Sp. p. 2960; Gaz. vol. 168; p. 543.
Doane, John C., and B. H. Self, Hartford, Conn., assignors to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,008,961; Nov. 14; Sp. p. 2969; Gaz. vol. 172; p. 496.
Dobbel, Frederick W., Sonoma, Cal. Box-cover fastener. No. 1,001,257; Aug. 22; Sp. p. 4421; Gaz. vol. 169; p. 804.
Dobbins, James, Farmington, Mo. Track-gage. No. 1,003,886; Sept. 19; Sp. p. 3679; Gaz. vol. 170; p. 654.
Dobbins, Thomas M. (See Podmore, Arthur J., assignor.)
Dobbs, Archibald E. (See East, Dobbs, and Howkins.)
Dobbs, Archibald E., Castle Dobbs, near Carrickfergus, Ireland, W. East, Bournemouth, and J. S. Howkins, Fulham, London, England. Steam-generating plant. No. 992,644; May 16; Sp. p. 3893; Gaz. vol. 166; p. 694.
Dobie, John C., Onawa, Iowa, and J. L. Robb, Amistad, N. Mex., assignors of one-tenth to M. E. Hoover, Carroll, Iowa. Grain-car door. No. 1,008,796; Nov. 14; Sp. p. 2640; Gaz. vol. 172; p. 442.
Dobkevitch, Gaëtan. (See Blondel and Dobkevitch.)
Doble, Henry L. (See Olney, Frederick C., assignor.)
Doble, May E. (See Doble, William A., assignor.)
Doble, William A., assignor to M. E. Doble, San Francisco, Cal. Controlling mechanism. No. 994,505; June 6; Sp. p. 829; Gaz. vol. 167; p. 139.
Dobrofsky, Meyer, *et al.* (See Pascal, Israel, assignor.)
Dobson, George R., East Braintree, Mass. Ironing-table. No. 993,351; May 30; Sp. p. 5400; Gaz. vol. 166; p. 997.
Dobson, George W., Chicago, Ill., assignor to E. Goldman & Company. Bottle-washing machine. No. 1,012,194; Dec. 19; Sp. p. 4052; Gaz. vol. 173; p. 696.
Dobson, John E. (See Klocke and Dobson.)
Dobson, Matthew, Pittsburg, Pa. Sash-suspension device. No. 995,335; June 13; Sp. p. 2682; Gaz. vol. 167; p. 460.
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Sanding-wheel. No. 999,436; Aug. 1; Sp. p. 482; Gaz. vol. 169; p. 84.
Dockendorf, Henry J., Minneapolis, Minn. Printer's quoin. No. 992,485; May 16; Sp. p. 3567; Gaz. vol. 166; p. 639.
Dockery, Edward J., *et al.* (See Turner, Charles F., assignor.)
Dockery, Thomas E., Fond du Lac, Wis. Device for making expansion-joints in concrete-work. No 1,001,626; Aug. 29; Sp. p. 5175; Gaz. vol. 169; p. 959.
Dodd, Charles H., and R. J. McNulty, Boston, Mass. Regulator-valve for sewers. No. 993,587; May 30; Sp. p. 5914; Gaz. vol. 166; p. 1078.
Dodd, Walter L., Westville, Ind. Seed-planter. No. 985,331; Feb. 28; Sp. p. 4490; Gaz. vol. 163; p. 808.
Doddridge, Elmer, South Bend, Ind. Weedless hook. No. 983,353; Feb. 7; Sp. p. 205; Gaz. vol. 163; p. 35.
Dodds, Joseph, Rutherglen, Glasgow, Scotland. Screening and picking apparatus. No. 988,255; Mar. 28; Sp. p. 5301; Gaz. vol. 164; p. 938.
Dodds, Joseph, Rutherglen, Scotland. Apparatus for washing coal. No. 998,163; July 18; Sp. p. 3385; Gaz. vol. 168; p. 611.
Dodge, Alfred W. and J. B., Coudersport, Pa. Veneer-lathe. No. 1,012,995; Dec. 26; Sp. p. 5798; Gaz. vol. 173; p. 1014.
Dodge, David F., New York, N. Y. Pinochle-counter. No. 990,640; Apr. 25; Sp. p. 5088; Gaz. vol. 165; p. 887.
Dodge, George B. (See Hollins, Frederick E., assignor.)
Dodge, Harold C., San Francisco, Cal. Hose-rack. No. 980,217; Jan. 3; Sp. p. 82; Gaz. vol. 162; p. 16.
Dodge, J. B. (See Dodge, Alfred W. and J. B.)
Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Pivot-pin for chains. No. 993,969; May 30; Sp. p. 6714; Gaz. vol. 166; p. 1208.
Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain-link. No. 999,156; July 25; Sp. p. 5572; Gaz. vol. 168; p. 991.

Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain. No. 1,004,389; Sept. 26; Sp. p. 4844; Gaz. vol. 170; p. 855.
Dodge, James M., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Manufacturing chain-links. No. 1,008,891; Nov. 14; Sp. p. 2818; Gaz. vol. 172; p. 474.
Dodge, Nathaniel S., Alameda, Cal. Conveyer-belt. No. 989,952; Apr. 18; Sp. p. 3568; Gaz. vol. 165; p. 619.
Dodge, Norman, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Secondary or storage battery. No. 1,000,330; Aug. 8; Sp. p. 2349; Gaz. vol. 169; p. 416.
Dodge, William F. (See Martin, Arthur H., assignor.)
Dodge, William H., Haymarket, Va., assignor of one-half to B. M. De Nemegyei, Washington, D. C. Collapsible crate. No. 1,005,520; Oct. 10; Sp. p. 2066; Gaz. vol. 171; p. 363.
Dodgson, Frank L., Rochester, assignor, by mesne assignments, to General Railway Signal Company, Gates, N. Y. Railway-traffic-controlling apparatus. No. 1,012,064; Dec. 19; Sp. p. 3758; Gaz. vol. 173; p. 652.
Dodson, Charles I., Pittsburg, Kans., assignor to Funk Brothers, Chicago Heights, Ill. Spring-wheel. No. 999,437; Aug. 1; Sp. p. 483; Gaz. vol. 169; p. 85.
Dodson, Mary B., Penn Yan, N. Y. Table. No. 1,009,958; Nov. 28; Sp. p. 5113; Gaz. vol. 172; p. 922.
Dodson, Philander T., Creston, Iowa. Balanced water-motor. No. 988,256; Mar. 28; Sp. p. 5304; Gaz. vol. 164; p. 938.
Doebler, Charles F., New York, N. Y., assignor to National Hydraulic Construction Company. Dam construction. No. 1,010,602; Dec. 5; Sp. p. 459; Gaz. vol. 173; p. 71.
Doebler, Charles F., New York, N. Y., assignor to National Hydraulic Construction Company. Dam construction. No. 1,010,735; Dec. 5; Sp. p. 752; Gaz. vol. 173; p. 118.
Doebler, Charles F., New York, N. Y., assignor to National Hydraulic Construction Company. Dam construction. No. 1,010,736; Dec. 5; Sp. p. 754; Gaz. vol. 173; p. 118.
Doeg, Issachar W., Exeter, N. H. Oiler for shafts. No. 1,001,127; Aug. 22; Sp. p. 4175; Gaz. vol. 169; p. 763.
Doehrer, John M., Bridgeport, Conn. Folding chair. No. 991,202; May 2; Sp. p. 797; Gaz. vol. 166; p. 136.
Doerflinger, William F., New York, N. Y. Producing carbon tetrachlorid. No. 992,551; May 16; Sp. p. 3709; Gaz. vol. 166; p. 664.
Doerflinger, William F., Brooklyn, assignor of one-half to The Perry-Austen Manufacturing Company, Grassmere, N. Y. Organic compound and making the same. No. 1,003,438; Sept. 19; Sp. p. 2726; Gaz. vol. 170; p. 500.
Doering, Charles, Jr., Chicago, Ill. Stirring or agitating device. No. 989,342; Apr. 11; Sp. p. 2230; Gaz. vol. 165; p. 378.
Doering, William, Baltimore, Md. Back-rest for motorcycles, bicycles, &c. No. 998,330; July 18; Sp. p. 3786; Gaz. vol. 168; p. 673.
Doerr, Harry E., assignor to C. L. Gilbert, St. Louis, Mo. Car-truck side frame. No. 1,010,737; Dec. 5; Sp. p. 755; Gaz. vol. 173; p. 118.
Doersch, Henry C., Nyack, N. Y. Potato-baking utensil. No. 997,653; July 11; Sp. p. 2209; Gaz. vol. 168; p. 391.
Doescher, Charles, assignor to Scovill Manufacturing Company, Waterbury, Conn. Socket-cap. No. 985,252; Feb. 28; Sp. p. 4322; Gaz. vol. 163; p. 781.
Doggett, Lewis C. (See Rolland, Yves, assignor.)
Doherty, Henry L., New York, N. Y. Regulation of the temperature of the fuel-bed in gas-producing apparatus. No. 990,713; Apr. 25; Sp. p. 5280; Gaz. vol. 165; p. 911.
Doherty, Henry L., New York, N. Y. Gas producing and consuming apparatus. No. 990,714; Apr. 25; Sp. p. 5284; Gaz. vol. 165; p. 911.
Doherty, Henry L., New York, N. Y. Gas producing and consuming apparatus. No. 993,322; May 23; Sp. p. 5322; Gaz. vol. 166; p. 954.
Doherty, Henry L., New York, N. Y. Obtaining ammonia from coal. No. 997,908; July 11; Sp. p. 2804; Gaz. vol. 168; p. 479.
Doherty, Henry L., New York, N. Y. Apparatus for coking coal and producing gas. No. 997,941; July 11; Sp. p. 2879; Gaz. vol. 168; p. 491.
Doherty, Henry L., New York, N. Y. Making gas. No. 1,008,448; Nov. 14; Sp. p. 1857; Gaz. vol. 172; p. 320.
Doherty, Henry L., New York, N. Y. Regulating pressure in gas-producing apparatus. No. 1,008,449; Nov. 14; Sp. p. 1862; Gaz. vol. 172; p. 320.
Doherty, Henry L., New York, N. Y. Making gas. No. 1,008,450; Nov. 14; Sp. p. 1865; Gaz. vol. 172; p. 320.
Doherty, Henry L., Madison, Wis. Enriching gas for illuminating purposes. No. 992,944; May 23; Sp. p. 4544; Gaz. vol. 166; p. 831.
Doherty, James, deceased, San Diego, Cal.; P. J. Layne, public administrator of San Diego county, Cal., administrator. Hose-holder. No. 980,895; Jan. 3; Sp. p. 1561; Gaz. vol. 162; p. 247.
Doherty, Patrick H., Avon, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe. No. 998,604; July 25; Sp. p. 4364; Gaz. vol. 168; p. 799.
Doherty, Patrick H., Avon, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Grippers. No. 1,002,828; Sept. 12; Sp. p. 1432; Gaz. vol. 170; p. 255.
Dohm, Frederick W., assignor of one-fourth to J. C. Bramwell and one-fourth to D. F. Reese, St. Paul, Minn. Apparatus for heating curling-irons. No. 980,927; Jan. 10; Sp. p. 1665; Gaz. vol. 162; p. 288.
Dohner, Burt E., and A. J. Huff, Dayton, Ohio. Vehicle-wheel. No. 1,011,332; Dec. 12; Sp. p. 2122; Gaz. vol. 173; p. 362.
Dohrn, Max, and A. Thiele, assignors to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Methoxymethylmenthol. No. 994,445; June 6; Sp. p. 709; Gaz. vol. 167; p. 121.
Dohrn, Max, and A. Thiele, assignors to Chemische Fabrik auf Actien, (vorm. E. Schering,) Berlin, Germany. Methoxymethylsantalol. No. 1,001,933; Aug. 29; Sp. p. 5861; Gaz. vol. 169; p. 1065.
Doidge, John J., assignor, by mesne assignments, to R. H. Long Machinery Company, South Framingham, Mass. Lasting-machine. No. 1,012,996; Dec. 26; Sp. p. 5799; Gaz. vol. 173; p. 1015.
Doidge, John J., assignor, by mesne assignments, to R. H. Long Machinery Company, South Framingham, Mass. Wiper for lasting-machines. No. 1,012,997; Dec. 26; Sp. p. 5804; Gaz. vol. 173; p. 1015.
Doidge, John J., assignor, by mesne assignments, to R. H. Long Machinery Company, South Framingham, Mass. Work-support. No. 1,012,998; Dec. 26; Sp. p. 5808; Gaz. vol. 173; p. 1016.
Doidge, John J., assignor, by mesne assignments, to R. H. Long Machinery Company, South Framingham, Mass. Feeding device. No. 1,012,999; Dec. 26; Sp. p. 5810; Gaz. vol. 173; p. 1016.
Doillet, Louis, and P. R. Faure, Paris, France. Starting device for compound engines. No. 984,361; Feb. 14; Sp. p. 2397; Gaz. vol. 163; p. 406.
Doillet, Louis, and P. R. Faure, Paris, France. Steam motor-vehicle. No. 997,654; July 11; Sp. p. 2210; Gaz. vol. 168; p. 391.
Doillet, Louis, and P. R. Faure, Paris, France. Supplying device for boilers with liquid fuels. No. 1,006,920; Oct. 24; Sp. p. 5217; Gaz. vol. 171; p. 917.
Doke, Fred L. (See Freeman and Doke.)
Dolan, James P., Revere, assignor to G. A. Sagendorph, trustee, Brookline, Mass. Culvert. No. 1,002,653; Sept. 5; Sp. p. 1047; Gaz. vol. 170; p. 156.
Dolan, John B., Central Falls, R. I. Window-bead fastener. No. 1,011,333; Dec. 12; Sp. p. 2124; Gaz. vol. 173; p. 362.
Dolbey, Harry S., and L. E. Michon, Providence, R. I. Recording and indicating gage. No. 983,811; Feb. 7; Sp. p. 1176; Gaz. vol. 163; p. 189.
Dole, Henry H., Schenectady, N. Y., assignor to General Electric Company. Governing mechanism. No. 980,616; Jan. 3; Sp. p. 943; Gaz. vol. 162; p. 153.
Dolen, William C., *et al.* (See Broecker, Henry J., assignor.)
Doley, John A., assignor, by mesne assignments, to Kreesit Company, Caledonia, N. Y. Trousers-creaser. No. 996,912; July 4; Sp. p. 652; Gaz. vol. 168; p. 106.
Dolezal, Frank. (See Janecek, Ludwig, assignor.)
Doll, Louis, Los Angeles, Cal. Trunk. No. 983,693; Feb. 7; Sp. p. 949; Gaz. vol. 163; p. 150.
Doll, Theodore, Nora Springs, Iowa. Furniture-caster. No. 1,007,022; Oct. 24; Sp. p. 5417; Gaz. vol. 171; p. 950.
Doll, Theodore, Nora Springs, Iowa. Furniture-caster. No. 1,009,388; Nov. 21; Sp. p. 3956; Gaz. vol. 172; p. 684.
Doll, Theodore, Nora Springs, Iowa. Furniture-caster. No. 1,009,389; Nov. 21; Sp. p. 3959; Gaz. vol. 172; p. 684.
Doll, William, assignor of one-half to C. L. Ungar, San Francisco, Cal. Rotary broiler. No. 980,501; Jan. 3; Sp. p. 709; Gaz. vol. 162; p. 114.
Doll, William S., Akron, Ohio. Core for manufacturing pneumatic-tire shoes. No. 983,354; Feb. 7; Sp. p. 206; Gaz. vol. 163; p. 36.
Dollar, Merritt L., Wichita, Kans. Hood-vent for water-closets. No. 990,807; Apr. 25; Sp. p. 5478; Gaz. vol. 165; p. 943.
Dollinger, Richard, Pforzheim, assignor to Firm of E. G. Bek, Baden, Germany. Producing patterns on metal fabrics. No. 981,750; Jan. 17; Sp. p. 3505; Gaz. vol. 162; p. 594.
Dollinger, Richard, assignor to Firm of E. G. Bek, Pforzheim, Germany. Apparatus for soldering chain-links. No. 988,553; Apr. 4; Sp. p. 555; Gaz. vol. 165; p. 89.
Dollinger, Richard, and G. Bischoff, assignors to The Firm of E. G. Bek, Pforzheim, Germany. Machine for manufacturing metal ring fabrics. No. 994,987; June 13; Sp. p. 1968; Gaz. vol. 167; p. 345.
Dolny, Stephen A. (See Staron and Dolny.)
Dolph, Cyrus, Preston, Ontario, Canada. Metallic shingle. No. 996,750; July 4; Sp. p. 298; Gaz. vol. 168; p. 52.
Dolph, Raymond H., Guilford, Conn. Clutch. No. 1,010,128; Nov. 28; Sp. p. 5470; Gaz. vol. 172; p. 980.
Dolson, Josiah W., New York, N. Y. Flying-machine parachute. No. 1,003,714; Sept. 19; Sp. p. 3337; Gaz. vol. 170; p. 597.
Domalski, Frank W., Chicago, Ill. Reservoir-brush. No. 1,010,129; Nov. 28; Sp. p. 5471; Gaz. vol. 172; p. 980.

Alphabetical list of patentees—Continued.

Doman, Lewis B., Elbridge, N. Y. Pneumatic damper-operating mechanism. No. 1,000,381; Aug. 15; Sp. p. 2492; Gaz. vol. 169; p. 466.
Domanowski, John, and M. Wójcik, Sacramento, Cal. Combined berth and seats for railway-cars. No. 1,010,876; Dec. 5; Sp. p. 1062; Gaz. vol. 173; p. 166.
Domarus, George V., Jr., assignor to E. L. McHenry, Chicago, Ill. Hat-fastener. No. 990,427; Apr. 25; Sp. p. 4637; Gaz. vol. 165; p. 815.
Dombrink, Henry, Oakland, Cal. Window-casement. No. 1,009,488; Nov. 21; Sp. p. 4172; Gaz. vol. 172; p. 719.
Dombrowsky, Alexander, Las Cascadas, Panama. Trousers-creaser. No. 1,004,390; Sept. 26; Sp. p. 4845; Gaz. vol. 170; p. 855.
Domenico, Angelo, and A. Benedetti, Providence, R. I. Hat-pin. No. 1,003,715; Sept. 19; Sp. p. 3339; Gaz. vol. 170; p. 597.
Domestic Appliances Company. (See Flynt, Louis W. G., assignor.)
Domingues, Alfred, Jeanerette, La. Cane-harvester. No. 982,129; Jan. 17; Sp. p. 4348; Gaz. vol. 162; p. 726.
Dominion Car & Foundry Co. *et al.* (See Murray and Atwood, assignors.)
Domville, Alfred E., Philadelphia, Pa. Oilless car-wheel. No. 997,655; July 11; Sp. p. 2211; Gaz. vol. 168; p. 391.
Donachy, Darwin H., assignor of one-half to L. W. Edler, Williamsport, Pa. Adjustable washbasin. No. 991,609; May 9; Sp. p. 1688; Gaz. vol. 166; p. 310.
Donahoo, James T., Edgar, Nebr. Irrigating system. No. 994,065; May 30; Sp. p. 6914; Gaz. vol. 166; p. 1241.
Donahoo, Peter B., assignor to A. H. Lent, Oakland, Cal. Pivot-light. No. 986,966; Mar. 14; Sp. p. 2550; Gaz. vol. 164; p. 441.
Donahue, James W., Pe Ell, Wash. Undercutter. No. 980,928; Jan. 10; Sp. p. 1666; Gaz. vol. 162; p. 288.
Donahue, Joseph F. (See Hammond and Donahue.)
Donahue, Thomas, assignor of one-half to N. White, Rhinelander, Wis. Rail-support on ties. No. 996,470; June 27; Sp. p. 5225; Gaz. vol. 167; p. 916.
Donald, John B., Windsor, Ontario, Canada. Disk plow. No. 990,641; Apr. 25; Sp. p. 5089; Gaz. vol. 165; p. 887.
Donald, John B., Windsor, Ontario, Canada. Engine-plow. No. 991,961; May 9; Sp. p. 2405; Gaz. vol. 166; p. 428.
Donaldson, Francis, Yonkers, N. Y. Excavating-machine. No. 996,913; July 4; Sp. p. 653; Gaz. vol. 168; p. 106.
Donaldson, Frank E., Palos Park, Ill. Air-conditioning apparatus. No. 1,008,123; Nov. 7; Sp. p. 1019; Gaz. vol. 172; p. 165.
Donanowski, John. (See Krzewinski and Wojcik, assignors.)
Donat, Edwin A., Wanamakers, Pa. Sash-lock. No. 986,555; Mar. 14; Sp. p. 1701; Gaz. vol. 164; p. 301.
Donath, Otto A., Sedalia, Mo. Valve-reversing gear. No. 991,489; May 9; Sp. p. 1416; Gaz. vol. 166; p. 266.
Donaway, Milton L. (See McMillan and Donaway.)
Dondey, Albert, and J. C. Testro, South Melbourne, Victoria, Australia. High-pressure filter. No. 999,759; Aug. 8; Sp. p. 1123; Gaz. vol. 169; p. 222.
Doney, Charles S., Columbia Falls, assignor of one-third to C. H. Foot, Kalispell, and one-third to G. D. Watt, Columbia Falls, Mont. Electrical agricultural system. No. 982,175; Jan. 17; Sp. p. 4423; Gaz. vol. 162; p. 741.
Doney, Charles S., Columbia Falls, assignor of one-third to C. H. Foot, Kalispell, and one-third to G. D. Watt, Columbia Falls, Mont. Current-motor. No. 984,266; Feb. 14; Sp. p. 2218; Gaz. vol. 163; p. 375.
Donholt, Charles W., Ridgewood, N. J. Faucet. No. 998,282; July 18; Sp. p. 3677; Gaz. vol. 168; p. 655.
Donnell, John T., R. and T. B. Shropshire, Ozark, Ark. Curtain-stretcher. No. 988,554; Apr. 4; Sp. p. 556; Gaz. vol. 165; p. 90.
Donnell, William F., Hermatite, Mo. Milk-can. No. 984,921; Feb. 21; Sp. p. 3590; Gaz. vol. 163; p. 633.
Donnell, William F., Jonesboro, Ark. Milk-can. No. 985,016; Feb. 21; Sp. p. 3772; Gaz. vol. 163; p. 665.
Donnell, William J., Kiefer, Okla. Automatic fire-protector for oil-tanks. No. 1,011,927; Dec. 19; Sp. p. 3444; Gaz. vol. 173; p. 603.
Donnelly, Bertram C. (See Livergood and Donnelly.)
Donnelly, Hugh, Lisbon, Ohio. Car-coupling. No. 989,236; Apr. 11; Sp. p. 1988; Gaz. vol. 165; p. 342.
Donnelly, Hugh, Lisbon, Ohio. Car-coupling. No. 1,003,716; Sept. 19; Sp. p. 3341; Gaz. vol. 170; p. 598.
Donnelly, John J., Denver, Colo. Aerial apparatus of the heavier-than-air class. No. 989,490; Apr. 11; Sp. p. 2524; Gaz. vol. 165; p. 427.
Donnelly, John R., Fort Wayne, Ind. Cooking vessel. No. 1,006,469; Oct. 24; Sp. p. 4203; Gaz. vol. 171; p. 757.
Donnelly, John R., assignor of one-half to C. F. Libby, Portland, Me. Burner for self-vaporizing torches. No. 997,278; July 11; Sp. p. 1434; Gaz. vol. 168; p. 264.
Donnelly, William J. (See Mason and Donnelly.)
Donnelly, William T., Brooklyn, N. Y. Flexible pipe. No. 982,482; Jan. 24; Sp. p. 5104; Gaz. vol. 162; p. 881.
Donner, Christian J. (See Donner, William E., assignor.)
Donner, William E., assignor of one-half to C. J. Donner, Grand Island, Nebr. Tightener for drive-chains. No. 1,009,898; Nov. 28; Sp. p. 4989; Gaz. vol. 172; p. 901.
Donnerberg, August, *et al.* (See Kenney, Frank, assignor.)
Donning, George W., Stamford, Conn. Type-writer. No. 1,004,538; Sept. 26; Sp. p. 5142; Gaz. vol. 170; p. 905.
Donning, George W., New York, N. Y., assignor to H. T. Ambrose, Orange, N. J. Cabinet for type-writing machines. No. 993,588; May 30; Sp. p. 5917; Gaz. vol. 166; p. 1078.
Donning, George W., Stamford, Conn., assignor to H. T. Ambrose, Orange, N. J. Type-writer. No. 997,656; July 11; Sp. p. 2212; Gaz. vol. 168; p. 391.
Donohoe, Thomas, Edgewood Park, Pa. Mine-car. No. 1,010,738; Dec. 5; Sp. p. 757; Gaz. vol. 173; p. 119.
Donohue, Francis. (See McIntyre and Donohue.)
Donohue, Thomas, Trenton, Mich. Muffler. No. 992,344; May 16; Sp. p. 3279; Gaz. vol. 166; p. 591.
Donovan, John J., Boston, Mass. Floor connection. No. 988,555; Apr. 4; Sp. p. 558; Gaz. vol. 165; p. 90.
Doody, Bartholomew R., Canton, Mass. Candle and candle-holder for use in church services. No. 987,969; Mar. 28; Sp. p. 4742; Gaz. vol. 164; p. 845.
Doody, Bartholomew R., Canton, Mass. Candle for use in church services. No. 988,257; Mar. 28; Sp. p. 5305; Gaz. vol. 164; p. 939.
Doolan, Thomas, Chicago, Ill. Waste-burner. No. 1,011,762; Dec. 12; Sp. p. 3058; Gaz. vol. 173; p. 511.
Dooley, Chester G. and G. W., San Bernardino, Cal. Knife-blade scraper. No. 1,002,045; Aug. 29; Sp. p. 6095; Gaz. vol. 169; p. 1101.
Dooley, George W. (See Dooley, Chester G. and G. W.)
Dooley, John M., Bloomington, Ill. Bleed-cock for air-brakes. No. 983,610; Feb. 7; Sp. p. 766; Gaz. vol. 163; p. 120.
Dooley, Michael A., *et al.* (See Kiltz, Peter, assignor.)
Dooley, Michael A., Cary Station, Ill. Rotary engine. No. 981,540; Jan. 10; Sp. p. 3084; Gaz. vol. 162; p. 503.
Dooley, Robert M., Rockland, Tex. Headlight. No. 1,007,435; Oct. 31; Sp. p. 6340; Gaz. vol. 171; p. 1151.
Doolittle, Elbridge C., assignor to The Doolittle & Whitehead Co., Wallingford, Conn. Wrench. No. 987,444; Mar. 21; Sp. p. 3561; Gaz. vol. 164; p. 635.
Doolittle, James E., assignor to Birdsey-Somers Company, Bridgeport, Conn. Corset. No. 993,765; May 30; Sp. p. 6322; Gaz. vol. 166; p. 1140.
Doolittle, Perry E., Toronto, Ontario, Canada, assignor, by mesne assignments, to Doolittle Rim Co., Ltd. Pneumatic tire. No. 990,965; May 2; Sp. p. 293; Gaz. vol. 166; p. 51.
Doolittle, Perry E., Toronto, Ontario, Canada, assignor, by mesne assignments, to Doolittle Rim Co., Ltd. Demountable rim. No. 998,880; July 25; Sp. p. 5004; Gaz. vol. 168; p. 898.
Doolittle, Perry E., assignor to The Doolittle Rim Company, Limited, Toronto, Ontario, Canada. Tool. No. 1,005,815; Oct. 17; Sp. p. 2721; Gaz. vol. 171; p. 498.
Doolittle Rim Company, The. (See Doolittle, Perry E., assignor.)
Doolittle & Whitehead Co., The. (See Doolittle, Elbridge C., assignor.)
Doorenbos, John, assignor to National Gas Light Company, Kalamazoo, Mich. Lamp. No. 1,002,235; Sept. 5; Sp. p. 99; Gaz. vol. 170; p. 11.
Doose, Gabriel H. W., San Francisco, Cal. Releasing device. No. 1,005,615; Oct. 10; Sp. p. 2306; Gaz. vol. 171; p. 397.
Doose, Gabriel H. W., San Francisco, Cal. Wave-motor. No. 1,005,616; Oct. 10; Sp. p. 2307; Gaz. vol. 171; p. 397.
Doose, Gabriel H. W., San Francisco, Cal. Fish-hook. No. 1,012,528; Dec. 19; Sp. p. 4715; Gaz. vol. 173; p. 810.
Doran, James A. (See Doran, James C. and J. A.)
Doran, James C. and J. A., Providence, R. I. Barrette-pin. No. 1,010,603; Dec. 5; Sp. p. 462; Gaz. vol. 173; p. 71.
Doran, James C. and J. A., Providence, R. I. Barrette-pin. No. 1,010,739; Dec. 5; Sp. p. 758; Gaz. vol. 173; p. 119.
Dore, Daniel M. (See Carey, James D., assignor.)
Doremus, Willard D., Washington, D. C. Mail-marking machine. No. 982,415; Jan. 24; Sp. p. 4939; Gaz. vol. 162; p. 855.
Doremus, Willard D., Washington, D. C. Stamp-canceling and postmarking machine. No. 982,579; Jan. 24; Sp. p. 5283; Gaz. vol. 162; p. 912.
Dorff, Conrad J., assignor to The Harvard Electric Company, Chicago, Ill. Electric snap-switch. No. 996,068; June 27; Sp. p. 4296; Gaz. vol. 167; p. 779.
Dorff, Conrad J., Chicago, Ill. Screw-cutting die. No. 1,000,156; Aug. 8; Sp. p. 1993; Gaz. vol. 169; p. 357.
Döring, Hermann, Berlin, Germany. Vault-cover. No. 991,836; May 9; Sp. p. 2163; Gaz. vol. 166; p. 385.
Dorman, Gerald J., Brooklyn, N. Y. Carbureter. No. 985,515; Feb. 28; Sp. p. 4915; Gaz. vol. 163; p. 872.
Dorman, William S., Brooklyn, N. Y., assignor to R. A. Canfield, Providence, R. I. Bottle-neck-forming tool. No. 1,003,717; Sept. 19; Sp. p. 3342; Gaz. vol. 170; p. 598.
Dorman, William S., Brooklyn, N. Y., assignor, by mesne assignments, to R. A. Canfield, Providence, R. I. Bottle-neck-forming tool. (Reissue.) No. 13,339; Dec. 12; Sp. p. 3362; Gaz. vol. 173; p. 559.
Dorman, Willis S., Linton, N. D. Bolt-fastener. No. 994,726; June 13; Sp. p. 1367; Gaz. vol. 167; p. 256.
Dorn, Charles. (See Keyes, William W. W., assignor.)

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Dornan, Thomas B., Philadelphia, Pa. Woven fabric. No. 1,012,825; Dec. 26; Sp. p. 5398; Gaz. vol. 173; p. 958.
Dorneth, Julius, assignor to Typograph G. m. b. H., Berlin, Germany. Matrix-setting and line-casting machine. No. 1,000,157; Aug. 8; Sp. p. 1994; Gaz. vol. 169; p. 357.
Dorough, Tranis G. (See Dawkins and Dorough.)
Dorr, Harry A., Providence, R. I. Paper-reclaiming machine. No. 1,012,615; Dec. 26; Sp. p. 4914; Gaz. vol. 173; p. 885.
Dorr, John V., Denver, Colo. Ore-classifier. No. 996,624; July 4; Sp. p. 62; Gaz. vol. 168; p. 12.
Dorsey, Farnum F. (See Hodgkinson, Percy W., assignor.)
Dorsey, Farnum F., Rochester, assignor to Superior Register Company, Canisteo, N. Y. Account-register. No. 1,007,648; Oct. 31; Sp. p. 6804; Gaz. vol. 171; p. 1222.
Dorsey, Parmer, Hutchinson, Kans. Rod-packing. No. 980,617; Jan. 3; Sp. p. 946; Gaz. vol. 162; p. 153.
Dorsey, Parmer, assignor to The Standard Supply and Manufacturing Company, Hutchinson, Kans. Bit-stock. No. 1,000,900; Aug. 15; Sp. p. 3620; Gaz. vol. 169; p. 651.
Dorsey, William R., New York, N. Y. Shoe-skate. No. 998,605; July 25; Sp. p. 4366; Gaz. vol. 168; p. 799.
Dorton, Jesse H. (See Clarke and Dorton.)
Dorton, Walter B. (See Jones, Charles A., assignor.)
Dorward, Edwin P., Marion, Ohio. Trousers-stretcher. No. 1,010,241; Nov. 28; Sp. p. 5692; Gaz. vol. 172; p. 1017.
Doscher, Harry. (See Ekermeyer, William, assignor.)
Doss, Thompson Co. (See Busbea, Albert G., assignor.)
Doster, John W., Kingsland, Ark. Railway-tie plate. No. 986,698; Mar. 14; Sp. p. 1993; Gaz. vol. 164; p. 351.
Doten, Edward S., Stigler, Okla. Ironing-table. No. 997,117; July 4; Sp. p. 1094; Gaz. vol. 168; p. 177.
Doty, Giles S., and J. D. Show, Philadelphia, Pa., assignors to D. & S. Airless Tire Company. Elastic tire. No. 1,002,046; Aug. 29; Sp. p. 6096; Gaz. vol. 169; p. 1101.
Doty, Samuel, Vernal, S. D. Percolating-bag holder. No. 1,002,376; Sept. 5; Sp. p. 461; Gaz. vol. 170; p. 65.
Double Body Bolster Company. (See Howard, Clarence H., assignor.)
Double Body Bolster Company. (See Howard and Pflager, assignors.)
Double Body Bolster Company. (See Pflager, Harry M., assignor.)
Double Body Bolster Company. (See Pflager and Van Buskirk, assignors.)
Double Body Bolster Company. (See Russum, Thomas H., assignor.)
Double, Edward. (See Bell, Cyrus, assignor.)
Double, Edward. (See Perkins and Double.)
Doud, Arthur N., Cleveland, Ohio. Cart. No. 1,005,617; Oct. 10; Sp. p. 2308; Gaz. vol. 171; p. 398.
Doud, Arthur N., Cleveland, Ohio. Clam-shell grab-bucket. No. 1,007,023; Oct. 24; Sp. p. 5419; Gaz. vol. 171; p. 950.
Doud, Arthur N., North Stockholm, N. Y., assignor to S. S. Saffold, Cleveland, Ohio. Bottom-dumping hoisting-bucket. No. 1,005,618; Oct. 10; Sp. p. 2309; Gaz. vol. 171; p. 398.
Dougall, George M., Wolfville, Nova Scotia, Canada. Kaleidoscope. No. 984,198; Feb. 14; Sp. p. 2029; Gaz. vol. 163; p. 349.
Dougan, Kennedy, Minneapolis, Minn. Feed-regulator. No. 997,048; July 4; Sp. p. 970; Gaz. vol. 168; p. 155.
Dougan, Kennedy, Minneapolis, Minn. Governor. No. 997,279; July 11; Sp. p. 1436; Gaz. vol. 168; p. 264.
Dougherty, Hugh L., Los Angeles, Cal. Door-lock. No. 982,766; Jan. 24; Sp. p. 5679; Gaz. vol. 162; p. 973.
Dougherty, Patrick J. (See Walch, Herman, assignor.)
Dougherty, Tiberias B. M., Philadelphia, Pa. Non-refillable bottle. No. 1,012,826; Dec. 26; Sp. p. 5402; Gaz. vol. 173; p. 959.
Dougherty, William S., and N. Stewart, Montrose, Colo. Water-gate. No. 1,006,730; Oct. 24; Sp. p. 4764; Gaz. vol. 171; p. 848.
Doughty, Herman W., and C. E. Beach, Binghamton, N. Y., assignors to Star Electric Company. Cut-out. No. 1,005,521; Oct. 10; Sp. p. 2068; Gaz. vol. 171; p. 363.
Douglas, Anthony C. (See Ryan, Walter D., assignor.)
Douglas, Clifton A. (See Keogh, Lucius R., assignor.)
Douglas, Edwin R., Philadelphia, Pa. Machine for threading sheet-metal caps. No. 1,010,740; Dec. 5; Sp. p. 760; Gaz. vol. 173; p. 119.
Douglas, Frank L. (See Robinson and Douglas.)
Douglas, Harry A., La Crosse, Wis. Stereoscope. No. 994,378; June 6; Sp. p. 581; Gaz. vol. 167; p. 99.
Douglas, James A., Grand Chain, Ill. Hog-scalding trough. No. 981,751; Jan. 17; Sp. p. 3506; Gaz. vol. 162; p. 594.
Douglas, Lloyd, Los Gatos, Cal. Bracket-seat. No. 980,618; Jan. 3; Sp. p. 947; Gaz. vol. 162; p. 154.
Douglas, Ralph W. (See Price, Claude E., assignor.)
Douglas, William H., Belleville, N. J., assignor to Healey & Co., New York, N. Y. Driving and steering mechanism for motor-vehicles. No. 1,011,591; Dec. 12; Sp. p. 2713; Gaz. vol. 173; p. 455.
Douglas, William M., Galveston, Tex., assignor, by mesne assignments, to National Torpedo Company, New York, N. Y. Automobile torpedo. No. 998,475; July 18; Sp. p. 4074; Gaz. vol. 168; p. 722.
Douglass, Claude N. (See Douglass, Hannah G., assignor.)
Douglass, Francis P., Pasadena, Cal. Trestle-clamp. No. 993,229; May 23; Sp. p. 5128; Gaz. vol. 166; p. 924.
Douglass, Hannah G., assignor of one-half to C. N. Douglass, New Albany, Ind. Cleaner for refrigerator drain-pipes. No. 986,370; Mar. 7; Sp. p. 1292; Gaz. vol. 164; p. 209.
Douglass, James R., Bentonville, Ark. Broom-corn holder. No. 982,941; Jan. 31; Sp. p. 6082; Gaz. vol. 162; p. 1062.
Douglass, N. B. (See Frye, Lee E., assignor.)
Douglass, N. B. (See Pelletier, Charles O., assignor.)
Douglass, Napoleon B., Berkeley, Cal. Wall-bed. No. 991,771; May 9; Sp. p. 2014; Gaz. vol. 166; p. 362.
Douglass, Napoleon B., Oakland, Cal. Combined reversible wall furniture and door. No. 1,006,068; Oct. 17; Sp. p. 3282; Gaz. vol. 171; p. 587.
Dourte, George J., Longmont, Colo. Mechanical movement. No. 1,010,604; Dec. 5; Sp. p. 463; Gaz. vol. 173; p. 72.
Doust, James C., Toronto, Ontario, Canada. Clothes-line reel. No. 1,004,753; Oct. 3; Sp. p. 443; Gaz. vol. 171; p. 74.
Dout, Harry L. (See Reiter and Dout.)
Douthat, Rudenz S., assignor of one-half to G. D. Miller, Huntington, W. Va. Type-writing machine. No. 1,001,370; Aug. 22; Sp. p. 4680; Gaz. vol. 169; p. 845.
Douthat, Rudenz S., assignor of one-half to G. D. Miller, Huntington, W. Va. Type-writing machine. No. 1,001,515; Aug. 22; Sp. p. 4934; Gaz. vol. 169; p. 892.
Douthitt, John F., Boonville, Ind. Steering device. No. 989,897; Apr. 18; Sp. p. 3435; Gaz. vol. 165; p. 599.
Dovel, James P., North Birmingham, Ala. Gas-purifier. No. 1,001,738; Aug. 29; Sp. p. 5420; Gaz. vol. 169; p. 999.
Dovel, James P., Birmingham, Ala. Gas-cleaning apparatus. No. 1,001,740; Aug. 29; Sp. p. 5427; Gaz. vol. 169; p. 1000.
Dovel, James P., assignor of one-third to J. J. Shannon, Birmingham, Ala. Gas-washer. No. 1,001,739; Aug. 29; Sp. p. 5424; Gaz. vol. 169; p. 999.
Dover, George W. (See Peterson, Erick B., assignor.)
Dover, Hannah M. (See Starn, George E., assignor.)
Dow Chemical Company, The. (See Barstow, Edwin O., assignor.)
Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Manufacturing bromids. No. 997,972; July 18; Sp. p. 2962; Gaz. vol. 168; p. 543.
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Apparatus for multiple-effect vacuum evaporation. No. 1,004,686; Oct. 3; Sp. p. 292; Gaz. vol. 171; p. 50.
Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Producing crystals. No. 1,004,858; Oct. 3; Sp. p. 675; Gaz. vol. 171; p. 110.
Dow, Herbert H., Midland, Mich., W. S. Gates and A. E. Schaefer, assignors to The Ontario Nickel Company, Limited, Worthington, Ontario, Canada. Electrolyzing nickel-sulfate solutions. No. 1,003,092; Sept. 12; Sp. p. 2009; Gaz. vol. 170; p. 346.
Dow, Merle A., East St. Louis, Ill. Car-derailer. No. 997,607; July 11; Sp. p. 2088; Gaz. vol. 168; p. 373.
Dow, Peter, *et al.* (See Pecci, Pio N., assignor.)
Dow Surgical Battery Company. (See Shattuck, Burt E., assignor.)
Dow, Willard E., Braintree, Mass. Combined timer and distributer-magneto. No. 991,490; May 9; Sp. p. 1417; Gaz. vol. 166; p. 267.
Dow, Willard E., Braintree, Mass. Rotary switch. No. 995,774; June 20; Sp. p. 3683; Gaz. vol. 167; p. 643.
Dow, Willard E., Braintree, Mass. Electric switch. No. 1,000,158; Aug. 8; Sp. p. 1996; Gaz. vol. 169; p. 358.
Dow, William H., Burlington, Vt. Sash-lock. No. 987,558; Mar. 21; Sp. p. 3767; Gaz. vol. 164; p. 673.
Dowd, Charles E., West Medway, Mass. Puzzle. No. 988,758; Apr. 4; Sp. p. 1010; Gaz. vol. 165; p. 160.
Dowd, Daniel, Portland, Oreg. Structural frame for the support of the lath and plaster of walls and ceilings of buildings. No. 1,004,859; Oct. 3; Sp. p. 678; Gaz. vol. 171; p. 110.
Dowd, Frank, assignor of one-half to H. H. Dowd, Cleveland, Ohio. Wheel-tire. No. 1,002,654; Sept. 5; Sp. p. 1048; Gaz. vol. 170; p. 156.
Dowd, Herbert H. (See Dowd, Frank, assignor.)
Dowd, James E. (See Sleeper, Frank P., assignor.)
Dowd, John, Chicopee, Kans. Chemical shot-firer. No. 981,073; Jan. 10; Sp. p. 2061; Gaz. vol. 162; p. 339.
Dowd, John P., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Means for operating shovel-buckets and similar receptacles. No. 1,008,247; Nov. 7; Sp. p. 1294; Gaz. vol. 172; p. 211.
Dowd, John P., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Means for operating shovel-buckets and similar receptacles. No. 1,009,653; Nov. 21; Sp. p. 4476; Gaz. vol. 172; p. 771.

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Dowdall, James T. (See Chauvet and Dowdall.)
Dowden Manufacturing Company. (See McCarthy, Emmet, assignor.)
Dowdy, Ewell M., Water Valley, Tex. Seed-planter. No. 981,395; Jan. 10; Sp. p. 2781; Gaz. vol. 162; p. 453.
Dowe, Arthur W., Camden, N. J. Wave-motor. No. 1,003,241; Sept. 12; Sp. p. 2329; Gaz. vol. 170; p. 400.
Dowe, Arthur W., Camden, N. J., assignor to Miller Lock Co., Philadelphia, Pa. Padlock. No. 1,003,718; Sept. 19; Sp. p. 3346; Gaz. vol. 170; p. 598.
Dowell, Lawson H., Athens, Tex. Nut-lock. No. 980,218; Jan. 3; Sp. p. 83; Gaz. vol. 162; p. 16.
Dowell, Osgood H., Washington, D. C., assignor to The Sandusky Foundry and Machine Company, Sandusky, Ohio. Suction-roll. No. 1,008,407; Nov. 14; Sp. p. 1756; Gaz. vol. 172; p. 306.
Dowell, William S., El Reno, Okla. Oil-burner. No. 983,484; Feb. 7; Sp. p. 490; Gaz. vol. 163; p. 78.
Dowins, Richard G., Neodesha, Kans. Meter-register compensating for pressure variations. No. 996,471; June 27; Sp. p. 5226; Gaz. vol. 167; p. 916.
Dowins, Richard G., assignor of one-half to M. Butcher, Neodesha, Kans. Gas and air mixing device. No. 1,013,000; Dec. 26; Sp. p. 5813; Gaz. vol. 173; p. 1017.
Dowling, Dennis J., St. Louis, Mo. Pump-bucket. No. 998,678; July 25; Sp. p. 4524; Gaz. vol. 168; p. 825.
Downer, Clarence L., Idaho Falls, Idaho. Adding-machine attachment. No. 980,765; Jan. 3; Sp. p. 1255; Gaz. vol. 162; p. 202.
Downer, John H., assignor of one-fourth to E. H. Vandermark, Colton, one-fourth to L. L. Yates, and one-fourth to R. T. Burdette, Los Angeles, Cal. Saddle for car running-boards. No. 1,012,827; Dec. 26; Sp. p. 5404; Gaz. vol. 173; p. 959.
Downer, John L., Hopkins, Mo. Package-binder. No. 1,004,246; Sept. 26; Sp. p. 4566; Gaz. vol. 170; p. 808.
Downes, James W., Spokane, Wash. Tire-shield. No. 999,760; Aug. 8; Sp. p. 1125; Gaz. vol. 169; p. 223.
Downes, John. (See Hoy and Downes.)
Downey, Charles, *et al.* (See Woehler, Henry G., assignor.)
Downey, Richard F. (See Bender and Downey.)
Downey, Thomas B., Springtown, Ark. Pump for carpet-cleaners. No. 990,037; Apr. 18; Sp. p. 3741; Gaz. vol. 165; p. 647.
Downey, Thomas B., Springtown, Ark. Pneumatic or vacuum cleaner. No. 1,006,921; Oct. 24; Sp. p. 5219; Gaz. vol. 171; p. 917.
Downham, Thomas S., Toronto, Ontario, Canada. Shaking and dumping grate. No. 1,001,741; Aug. 29; Sp. p. 5431; Gaz. vol. 169; p. 1000.
Downie, David, *et al.* (See Homan, James, assignor.)
Downie, James L. (See Downie, Robert M. and J. L.)
Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Oiling device for pumps. No. 991,281; May 2; Sp. p. 974; Gaz. vol. 166; p. 164.
Downie, Robert M., Beaver Falls, and J. L. Downie, Downieville, assignors to The Keystone Driller Co., Beaver Falls, Pa. Combined speed-regulating air-cushion and emergency jarring device. No. 1,002,971; Sept. 12; Sp. p. 1759; Gaz. vol. 170; p. 305.
Downing, Charles P., New York, N. Y. Air-lock for caisson-shafting. No. 995,060; June 13; Sp. p. 2126; Gaz. vol. 167; p. 369.
Downing, Frank W., Essex, Conn. Soldering implement. No. 981,396; Jan. 10; Sp. p. 2783; Gaz. vol. 162; p. 453.
Downing, John H., Stillwater, Minn., assignor to State of Minnesota. Gearing. No. 1,008,451; Nov. 14; Sp. p. 1871; Gaz. vol. 172; p. 321.
Downing, Lou J., Coffeyville, Kans. Pin-package. No. 981,541; Jan. 10; Sp. p. 3085; Gaz. vol. 162; p. 503.
Downing, Otto P., Pecos, Tex. Pneumatic wheel. No. 993,659; May 30; Sp. p. 6093; Gaz. vol. 166; p. 1104.
Downs, George A., Forestville, assignor to Landers, Frary and Clark, New Britain, Conn. Generator-tube and filler for vapor-stoves. No. 1,009,833; Nov. 28; Sp. p. 4875; Gaz. vol. 172; p. 880.
Downs, George H., assignor of one-half to W. E. Grace, Portland, Oreg. Running-gear for electric locomotives. No. 1,006,731; Oct. 24; Sp. p. 4766; Gaz. vol. 171; p. 849.
Downs, George H., assignor of one-half to W. E. Grace, Portland, Oreg. Driving means of electric locomotives. No. 1,006,732; Oct. 24; Sp. p. 4769; Gaz. vol. 171; p. 849.
Doyle, Edward S., Denton county, Tex. Cultivator-disk journal. No. 981,984; Jan. 17; Sp. p. 4062; Gaz. vol. 162; p. 677.
Doyle, Edward S., Slidell, Tex. Curtain-pole. No. 983,428; Feb. 7; Sp. p. 361; Gaz. vol. 163; p. 60.
Doyle, George H., Lancaster, Cal. Mop-holding device. No. 997,049; July 4; Sp. p. 972; Gaz. vol. 168; p. 155.
Doyle, Henry, assignor to Automatic Picture Machine Company of Delaware, New York, N. Y. Photographic plate. No. 997,763; July 11; Sp. p. 2460; Gaz. vol. 168; p. 429.
Doyle, James S. (See Hedley and Doyle.)
Doyle, James S., assignor of one-half to F. Hedley, New York, N. Y. Hand-strap. No. 989,237; Apr. 11; Sp. p. 1991; Gaz. vol. 165; p. 342.
Doyle, James S., New York, N. Y., assignor to Burdett-Rowntree Manufacturing Company, Chicago, Ill. Safety mechanism for power-operated doors. No. 1,004,754; Oct. 3; Sp. p. 444; Gaz. vol. 171; p. 74.
Doyle, Joseph, West Indianapolis, Ind. Piano-action. No. 994,700; June 6; Sp. p. 1272; Gaz. vol. 167; p. 207.
Doyle, Joseph P., Cleveland, Ohio. Smoke-preventing device. No. 998,962; July 25; Sp. p. 5192; Gaz. vol. 168; p. 927.
Doyle, Percival F. (See Mackie and Doyle.)
Dozier, Byron C., New York, N. Y. Elevated-railway construction. No. 1,009,489; Nov. 21; Sp. p. 4173; Gaz. vol. 172; p. 719.
Dräger, Alexander B., assignor to Drägerwerk Heinr. und Bernh. Dräger, Lübeck, Germany. Portable breathing apparatus. No. 1,005,816; Oct. 17; Sp. p. 2722; Gaz. vol. 171; p. 498.
Drägerwerk Heinr. und Bernh. Dräger. (See Dräger, Alexander B., assignor.)
Drake, Charles L., St. Louis, Mo. Cushion-tire. No. 988,318; Apr. 4; Sp. p. 45; Gaz. vol. 165; p. 10.
Drake, Charles L., St. Louis, Mo. Sporting-shoe. No. 997,657; July 11; Sp. p. 2217; Gaz. vol. 168; p. 392.
Drake, Chester T., assignor to American Lock Nut Company, Chicago, Ill. Lock-nut. No. 986,446; Mar. 14; Sp. p. 1460; Gaz. vol. 164; p. 263.
Drake, Chester T., assignor to L. Hayworth, Chicago, Ill. Machine for treating fibrous materials. No. 986,624; Mar. 14; Sp. p. 1835; Gaz. vol. 164; p. 326.
Drake, Edward F., New York, N. Y. Holder for lamp-chimneys. No. 1,002,568; Sept. 5; Sp. p. 869; Gaz. vol. 170; p. 128.
Drake, Franklin J., U. S. Navy. Method of and apparatus for lifting fogs. No. 990,121; Apr. 18; Sp. p. 3900; Gaz. vol. 165; p. 674.
Drake, Iama, assignor to Bettendorf Tool Company, Bettendorf, Iowa. Attachment for ladders. No. 992,408; May 16; Sp. p. 3407; Gaz. vol. 166; p. 613.
Drake, James C., assignor to The Conley Camera Co., Rochester, Minn. Multiple-exposure attachment for cameras. No. 982,707; Jan. 24; Sp. p. 5545; Gaz. vol. 162; p. 955.
Drake, James S., Lancaster, S. C., assignor of one-half to B. S. Moore, Charlotte, N. C. Loading-wire for traveler-dispensers. No. 995,847; June 20; Sp. p. 3841; Gaz. vol. 167; p. 668.
Drake, John L., Monticello, Ind. Fire-hose lightener and signaling device. No. 1,002,972; Sept. 12; Sp. p. 1763; Gaz. vol. 170; p. 306.
Drake, Mabel E. (See Nekarda, Francis J., assignor.)
Drake, Ora, Cleveland, Ohio. Vacuum cleaning-machine. No. 1,000,382; Aug. 15; Sp. p. 2493; Gaz. vol. 169; p. 467.
Drake, Ora, Cleveland, Ohio. Shoe for vacuum-cleaners. No. 1,000,383; Aug. 15; Sp. p. 2495; Gaz. vol. 169; p. 467.
Drake, Roy M. (See Carter, James E., assignor.)
Drake, Thomas A., Jersey City, N. J. Leather-dressing. No. 994,446; June 6; Sp. p. 710; Gaz. vol. 167; p. 121.
Draper, Charles W., Washington, D. C. Furnace. No. 997,973; July 18; Sp. p. 2964; Gaz. vol. 168; p. 543.
Draper, Clare H. (See Northrop, Jonas, assignor.)
Draper Company. (See Barber, William M., assignor.)
Draper Company. (See Connelly, James W., assignor.)
Draper Company. (See Côté, Henry, assignor.)
Draper Company. (See Cunniff, Edward, assignor.)
Draper Company. (See Eubanks, Sayers D., assignor.)
Draper Company. (See Freudenthal, Gottfrid, assignor.)
Draper Company. (See Howard, Fredrick, assignor.)
Draper Company. (See Lussier, Henry, assignor.)
Draper Company. (See Megginson, Cabell W., assignor.)
Draper Company. (See Osgood and Rhoades, assignors.)
Draper Company. (See Paquette, Severin N., assignor.)
Draper Company. (See Pepperell, William S., assignor.)
Draper Company. (See Rhoades, Alonzo E., assignor.)
Draper Company. (See Snow, Isaac, assignor.)
Draper Company. (See Stimpson, Edward S., assignor.)
Draper Company. (See Stone, Melvin L., assignor.)
Draper, Francis W., assignor to Starr Piano Company, Richmond, Ind. Music-sheet driver. No. 986,556; Mar. 14; Sp. p. 1705; Gaz. vol. 164; p. 302.
Draper, George O. (See Peck, Ira F., assignor.)
Draper, James S., Texarkana, Ark. Automobile-wheel. No. 982,130; Jan. 17; Sp. p. 4351; Gaz. vol. 162; p. 727.
Draper, John M., and C. Hamilton, Manchester, England; said Hamilton assignor to said Draper. Coal and ore washer or separator. No. 998,606; July 25; Sp. p. 4367; Gaz. vol. 168; p. 800.
Draper-Latham Magneto Company. (See Pennington, William D. and J. R., assignors.)
Draper, Louis W., Chicago, Ill. Folding box. No. 991,052; May 2; Sp. p. 462; Gaz. vol. 166; p. 80.
Draper, Walter E. (See Bigelow, John K., assignor.)
Draver, Henry C. (See Maxwell, Robert, assignor.)
Drawbaugh, Daniel, Camp Hill, assignor of one-half to W. C. Bowman, Lemoyne, Pa. Coin-assorter. No. 989,238; Apr. 11; Sp. p. 1993; Gaz. vol. 165; p. 343.

Drawbaugh, Daniel, Camp Hill, assignor to himself, and W. C. Bowman, Lemoyne, Pa. Coin-assorter. No. 989,522; Apr. 11; Sp. p. 2603; Gaz. vol. 165; p. 439.
Dray, William O., Denver, Colo. Ink-roller protector. No. 1,000,331; Aug. 8; Sp. p. 2350; Gaz. vol. 169; p. 416.
Drda, Fred. (See Feyk and Drda.)
Dreadnought Flooring Company. (See Nilsson, Axel W., assignor.)
Dreden, Ernst F. von, New York, N. Y. Electric train-signal. No. 1,001,742; Aug. 29; Sp. p. 5433; Gaz. vol. 169; p. 1001.
Drees, Albrecht, Kattowitz, Germany. High-pressure conduit. No. 980,929; Jan. 10; Sp. p. 1667; Gaz. vol. 162; p. 289.
Dreger, Karl von, assignor to D. Timar, Berlin, Germany. Electromagnetic igniting device for arc-lamps. No. 1,006,069; Oct. 17; Sp. p. 3285; Gaz. vol. 171; p. 587.
Dreher, Philip J., Toledo, Ohio. Coin-controlled attachment for automatic players or the like. No. 984,199; Feb. 14; Sp. p. 2032; Gaz. vol. 163; p. 350.
Dreher, Phillip J., Toledo, Ohio. Winding and controlling mechanism for belts and the like. No. 1,002,569; Sept. 5; Sp. p. 870; Gaz. vol. 170; p. 128.
Dreher, Phillip J., Toledo, Ohio. Endless-belt-operating mechanism for automatic players. No. 1,006,538; Oct. 24; Sp. p. 4373; Gaz. vol. 171; p. 784.
Dreher, Phillip J., Toledo, Ohio. Attachment for coin-controlled apparatus. No. 1,010,741; Dec. 5; Sp. p. 767; Gaz. vol. 173; p. 120.
Dreier, Dominick, Livingston, Mont. Thread-forming apparatus. No. 981,624; Jan. 17; Sp. p. 3261; Gaz. vol. 162; p. 553.
Dreifus, David. (See Achenbach, Driefus, and Lehmann.)
Dreisvogt, Herman C., Chicago, Ill. Shift transmission-gearing. No. 983,217; Jan. 31; Sp. p. 6635; Gaz. vol. 162; p. 1154.
Dreisvogt, Herman C., Santa Clara county, Cal. Press. No. 983,218; Jan. 31; Sp. p. 6638; Gaz. vol. 162; p. 1155.
Dressel, Charles P., Wilkes-Barre, Pa. Ash-dumper. No. 997,183; July 4; Sp. p. 1236; Gaz. vol. 168; p. 200.
Dressel, Oscar. (See Kothe, Dressel, and Hoerlein.)
Dressel, Oscar, Elberfeld, R. Kothe and H. Hoerlein, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye. No. 989,954; Apr. 18; Sp. p. 3570; Gaz. vol. 165; p. 619.
Dressel, Oskar, Elberfeld, R. Kothe, Vohwinkel, and A. Thauss, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye. No. 989,953; Apr. 18; Sp. p. 3569; Gaz. vol. 165; p. 619.
Drew, Herbert W., Chicago, Ill. Grain-car-door construction. No. 1,005,817; Oct. 17; Sp. p. 2724; Gaz. vol. 171; p. 498.
Drew, Samuel, Rochester, N. Y. Floor-scraper. No. 987,706; Mar. 28; Sp. p. 4118; Gaz. vol. 164; p. 754.
Drew, William F., San Francisco, Cal., assignor to Toledo Computing Scale Company, Toledo, Ohio. Weighing-scale. No. 1,003,439; Sept. 19; Sp. p. 2727; Gaz. vol. 170; p. 500.
Drewell, Heinrich, Charlottenburg, assignor to Schnellsetz-Maschinengesellschaft mit beschränkter Haftung, Berlin, Germany. Type-setting apparatus. No. 988,984; Apr. 11; Sp. p. 1445; Gaz. vol. 165; p. 256.
Drewell, Heinrich, assignor to Schnellsetzmaschinengesellschaft mit beschränkter Haftung, Charlottenburg, Germany. Machine for perforating the operating-bands of type-setting machines. No. 1,001,825; Aug. 29; Sp. p. 5605; Gaz. vol. 169; p. 1028.
Drews, Julius O., London, England. Fiber-extracting apparatus. No. 998,331; July 18; Sp. p. 3789; Gaz. vol. 168; p. 674.
Drewsen, Viggo, New York, N. Y. Utilizing pyrites for bisulfite-of-lime manufacture, &c. No. 981,625; Jan. 17; Sp. p. 3262; Gaz. vol. 162; p. 554.
Drewsen, Viggo, New York, N. Y. Fiber-producing process and resulting fiber material. No. 996,225; June 27; Sp. p. 4664; Gaz. vol. 167; p. 832.
Drexler, Anthony L., and W. H. Dittmar, Jersey City, N. J. Book-cover rubbing and cleaning machine. No. 999,488; Aug. 1; Sp. p. 578; Gaz. vol. 169; p. 101.
Drey, Wilfred J., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-stitching machine. No. 1,010,877; Dec. 5; Sp. p. 1065; Gaz. vol. 173; p. 167.
Drey, Wilfred J., Catawissa, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,011,592; Dec. 12; Sp. p. 2715; Gaz. vol. 173; p. 455.
Dreyer, Hans. (See Bach and Dreyer.)
Dreyer, Henry G., Cleveland, Ohio. Display-stand. No. 990,346; Apr. 25; Sp. p. 4432; Gaz. vol. 165; p. 784.
Dreyfus, Charles, A. Friedl, Manchester, and W. H. Bentley, Irlam, assignors to Clayton Aniline Company Limited, Clayton, near Manchester, England. Manufacture or purification of india-rubber and the like and the obtainment of by-products therefrom. No. 983,812; Feb. 7; Sp. p. 1178; Gaz. vol. 163; p. 190.
Driggs, Louis L., Sharon, Pa., assignor to O. C. Allen, Detroit, Mich. Semi-automatic gun. No. 996,569; June 27; Sp. p. 5415; Gaz. vol. 167; p. 947.
Driggs, William G., Sawtelle, Cal. Stuffing-box follower. No. 993,660; May 30; Sp. p. 6095; Gaz. vol. 166; p. 1104.
Drinkwater, Herbert A. (See Littlefield and Drinkwater.)
Driscoll, Charles H., Midvale, Utah. Fire-extinguisher. No. 1,009,490; Nov. 21; Sp. p. 4176; Gaz. vol. 172; p. 719.
Driscoll, Daniel W., and J. A. Renniee, New York, N. Y. Power apparatus. No. 1,003,440; Sept. 19; Sp. p. 2730; Gaz. vol. 170; p. 500.
Driscoll, John W., Central City, Colo. Vehicle-tire. No. 998,476; July 18; Sp. p. 4075; Gaz. vol. 168; p. 723.
Driscoll, Thomas D., St. Louis, Mo. Railway-tie. No. 1,001,516; Aug. 22; Sp. p. 4936; Gaz. vol. 169; p. 892.
Drisko, Alonzo S., Boston, Mass. Water-meter. No. 1,002,139; Aug. 29; Sp. p. 6256; Gaz. vol. 169; p. 1131.
Driver, Cornelius, Timberville, Va. Turnstile. No. 987,445; Mar. 21; Sp. p. 3561; Gaz. vol. 164; p. 635.
Driver, Thomas J., Honolulu, Hawaii. Elevated carrier. No. 1,000,242; Aug. 8; Sp. p. 2174; Gaz. vol. 169; p. 387.
Driver, Wilbur B., East Orange, N. J. Alloy. No. 981,542; Jan. 10; Sp. p. 3086; Gaz. vol. 162; p. 503.
Driver, Wilbur B., East Orange, N. J. Nickel alloy for high resistances. No. 993,042; May 23; Sp. p. 4749; Gaz. vol. 166; p. 864.
Droege, Frederick J., Covington, Ky. Busheling-furnace. No. 995,230; June 13; Sp. p. 2454; Gaz. vol. 167; p. 424.
Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Printing-press. No. 983,219; Jan. 31; Sp. p. 6640; Gaz. vol. 162; p. 1155.
Droitcour, Michael A., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Making toned printing-plates. No. 985,664; Feb. 28; Sp. p. 5213; Gaz. vol. 163; p. 921.
Droitcour, Michael A., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Apparatus for making printing-plates. No. 993,970; May 30; Sp. p. 6715; Gaz. vol. 166; p. 1208.
Droitcour, Michael A., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Manufacture of printing-plates. No. 997,050; July 4; Sp. p. 973; Gaz. vol. 168; p. 155.
Droitcour, Michael A., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Rotary sheet-printing press. No. 997,051; July 4; Sp. p. 976; Gaz. vol. 168; p. 156.
Droitcour, Michael A., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Toning printing-plates. No. 1,005,619; Oct. 10; Sp. p. 2313; Gaz. vol. 171; p. 399.
Droitcour, Michael A., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Apparatus for toning printing-plates. No. 1,005,772; Oct. 10; Sp. p. 2624; Gaz. vol. 171; p. 452.
Droitcour, Michael A., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Bed-motion for two-revolution flat-bed presses. No. 1,006,733; Oct. 24; Sp. p. 4772; Gaz. vol. 171; p. 850.
Droitcour, Michael A., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Manufacture of printing-plates. No. 1,009,390; Nov. 21; Sp. p. 3960; Gaz. vol. 172; p. 684.
Droitcour, Michael A., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism. No. 1,009,491; Nov. 21; Sp. p. 4177; Gaz. vol. 172; p. 720.
Dronsfield, Albert J., Providence, R. I. Humidifying apparatus. No. 1,002,905; Sept. 12; Sp. p. 1634; Gaz. vol. 170; p. 282.
Dronsfield, James, Oldham, England. Apparatus for attaching filleting to the flat bars of carding-engines. No. 998,239; July 18; Sp. p. 3560; Gaz. vol. 168; p. 638.
Dronsfield, James, Oldham, England. Machinery for grinding or surfacing metallic and other cylindrical bodies. No. 1,003,719; Sept. 19; Sp. p. 3347; Gaz. vol. 170; p. 599.
Drought, Harry E., Waukesha, Wis. Acetylene-lamp. No. 998,607; July 25; Sp. p. 4369; Gaz. vol. 168; p. 800.
Drown, Frank E., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pincer-actuating mechanism for lasting-machines. No. 1,009,288; Nov. 21; Sp. p. 3719; Gaz. vol. 172; p. 647.
Drubko, John, Willow River, Minn. Animal-trap. No. 981,592; Jan. 10; Sp. p. 3184; Gaz. vol. 162; p. 519.
Drucker, Harry N., Cincinnati, Ohio. Garment-hanger. No. 980,219; Jan. 3; Sp. p. 85; Gaz. vol. 162; p. 16.
Drucklieb, Charles A. (See Drucklieb and Simon, assignors.)
Drucklieb, Charles A., New York, N. Y. Machine for perforating cigarette-paper. No. 1,007,852; Nov. 7; Sp. p. 483; Gaz. vol. 172; p. 72.
Drucklieb, Julius C., New York, N. Y., and C. Simon, Ridgefield Park, N. J., assignors to C. A. Drucklieb, Stapleton, N. Y. Cigarette-tipping machine. No. 988,985; Apr. 11; Sp. p. 1453; Gaz. vol. 165; p. 256.
Drucklieb, Paul A., Stapleton, N. Y. Cartridge for tobacco-pipes and device for inserting the same. No. 997,974; July 18; Sp. p. 2966; Gaz. vol. 168; p. 544.

Alphabetical list of patentees—Continued.

Druding, Earl G., Ellsworth, Wis. Device for holding and displaying brooms. No. 985,017; Feb. 21; Sp. p. 3774; Gaz. vol. 163; p. 666.
Drum, George E. (See Skitt and Drum.)
Drum, George E., and J. H. Skitt, assignors to R. P. Smith and said George E. Drum, Philadelphia, Pa. Mercerizing-machine. No. 983,542; Feb. 7; Sp. p. 609; Gaz. vol. 163; p. 97.
Drum, George E., and J. H. Skitt, assignors to R. P. Smith and said George E. Drum, Philadelphia, Pa. Mercerizing-machine. No. 983,543; Feb. 7; Sp. p. 616; Gaz. vol. 163; p. 98.
Drummond, Charles E., Small Heath, near Birmingham, and F. J. Bostock, Bournbrook, near Birmingham, England. Valve mechanism for internal-combustion engines. No. 983,220; Jan. 31; Sp. p. 6645; Gaz. vol. 162; p. 1156.
Drummond, Charles S., London, England. Steam-generator. No. 1,008,797; Nov. 14; Sp. p. 2642; Gaz. vol. 172; p. 443.
Drummond, George L., Walla Walla, Wash. Proof-press. No. 1,008,798; Nov. 14; Sp. p. 2646; Gaz. vol. 172; p. 443.
Drury, George P., *et al.* (See Drury, William H., assignor.)
Drury, William H., assignor to J. S. Stearns and G. P. Drury, Waltham, Mass. Lubricating-packing. No. 1,001,371; Aug. 22; Sp. p. 4681; Gaz. vol. 169; p. 845.
Druseidt, Paul, Remscheid, Germany. Combined fuse-box and switch for electric circuits. No. 994,251; June 6; Sp. p. 308; Gaz. vol. 167; p. 53.
Druzbach, Theodor, Hoboken, N. J., assignor of one-half to G. E. Foerster, Brooklyn, N. Y. Disinfecting device. No. 988,178; Mar. 28; Sp. p. 5151; Gaz. vol. 164; p. 914.
Dryfoos, Nathan I., Cleveland, Ohio. Soldering-iron. No. 1,010,742; Dec. 5; Sp. p. 770; Gaz. vol. 173; p. 120.
Drzewiecki, Joe, Detroit, Mich. Dirigible lamp for automobiles. No. 1,008,962; Nov. 14; Sp. p. 2978; Gaz. vol. 172; p. 496.
Du Bois, Isaac E., Boone, Iowa. Closure for grease-cups. No. 995,775; June 20; Sp. p. 3686; Gaz. vol. 167; p. 643.
Du Brul, Napoleon, Cincinnati, Ohio. Cigar-packer. No. 996,980; July 4; Sp. p. 816; Gaz. vol. 168; p. 131.
Du Brul, Napoleon, Cincinnati, Ohio. Cigar-bunching machine. No. 1,002,655; Sept. 5; Sp. p. 1049; Gaz. vol. 170; p. 157.
Du Hauron, Louis D., and R. de Bercegol, Joinville-le-Pont, France. Preparing screens for color photography. No. 995,405; June 13; Sp. p. 2845; Gaz. vol. 167; p. 483.
Du Hauron, Louis D., and R. de Bercegol, Joinville-le-Pont, France. Manufacture of screens for use in color photography. No. 1,005,644; Oct. 10; Sp. p. 2368; Gaz. vol. 171; p. 407.
Du Laney, James W., Toronto, Ontario, Canada. Carpet-sweeper. No. 993,767; May 30; Sp. p. 6329; Gaz. vol. 166; p. 1141.
Du Mond, Junius G. (See Leonard and Du Mond.)
Du Montier, Alfred, Alexandria, Va., assignor to International Klinch Tile Corporation. Tiling. No. 984,126; Feb. 14; Sp. p. 1892; Gaz. vol. 163; p. 325.
Du Pont, Antoine B. (See Fleischer, John, assignor.)
Du Pont, Benjamin F., Jacksonville, and J. J. Daly, New Berlin, Fla. Oil-can. No. 1,006,923; Oct. 24; Sp. p. 5223; Gaz. vol. 171; p. 918.
Du Pont, Eleuthere P., Montchanin, Del. Igniter. No. 991,364; May 2; Sp. p. 1153; Gaz. vol. 166; p. 192.
Du Pont, Eugene E. (See Dilks, Reyam, and Du Pont.)
Du Pont, Francis I., Wilmington, Del. Liquid separation of solid constituents. No. 994,950; June 13; Sp. p. 1889; Gaz. vol. 167; p. 332.
Du Pont, Francis I., Wilmington, Del. Explosive projectile. No. 995,635; June 20; Sp. p. 3370; Gaz. vol. 167; p. 594.
Du Pont, Francis I., Wilmington, Del. Gravity liquid separation of certain iron ores. No. 1,002,865; Sept. 12; Sp. p. 1537; Gaz. vol. 170; p. 268.
Du Pont, Francis I., Wilmington, Del. Liquid gravity separation of solids. No. 1,004,815; Oct. 3; Sp. p. 572; Gaz. vol. 171; p. 94.
Du Pont, Francis I., Wilmington, Del. Draftsman's triangle. No. 1,012,340; Dec. 19; Sp. p. 4365; Gaz. vol. 173; p. 747.
Du Pont, Francis I., assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Graining-rolls for graining explosive powder. No. 993,353; May 30; Sp. p. 5407; Gaz. vol. 166; p. 998.
Du Pont, Francis I., assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Apparatus for solidifying crystallizable mixtures without substantial crystallization and forming strips thereof. No. 1,001,072; Aug. 22; Sp. p. 4059; Gaz. vol. 169; p. 745.
Du Pont, Francis I., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Solidifying crystallizable mixtures without substantial crystallization. No. 1,007,276; Oct. 31; Sp. p. 6000; Gaz. vol. 171; p. 1095.
Du Pont, Paul D., assignor of one-half to G. Escarras, Paris, France. Type-writing machine. No. 1,006,060; Oct. 17; Sp. p. 3261; Gaz. vol. 171; p. 584.
Du Pont, Paul D., assignor of one-half to G. Escarras, Paris, France. Syllable-writing machine. No. 1,006,061; Oct. 17; Sp. p. 3264; Gaz. vol. 171; p. 584.
Du Puy, Harry W., Pittsburgh, assignor to Pennsylvania Rubber Company, Jeanette, Pa. Aeroplane-wing. No. 1,008,630; Nov. 14; Sp. p. 2269; Gaz. vol. 172; p. 386.
Du Shane, James, South Bend, Ind. Loader for concrete-mixers. No. 990,194; Apr. 18; Sp. p. 4068; Gaz. vol. 165; p. 699.
Du Shane, James, South Bend, Ind. Gearing. No. 990,195; Apr. 18; Sp. p. 4069; Gaz. vol. 165; p. 699.
Du Val, Raymond B., Richmond, Va. Folding paper box. No. 980,931; Jan. 10; Sp. p. 1669; Gaz. vol. 162; p. 289.
Dubail, Jules, assignor to Société Industrielle de Delle, Delle, France. Junction-box for sparking plugs. No. 985,791; Mar. 7; Sp. p. 49; Gaz. vol. 164; p. 11.
Dubbs, Jesse A., Santa Monica, Cal. Treatment of petroleum. No. 1,002,570; Sept. 5; Sp. p. 872; Gaz. vol. 170; p. 129.
Dubied & Cie., Edouard. (See Dubied, Edouard, assignor.)
Dubied, Edouard, assignor to E. Dubied & Cie., Couvet, Switzerland. Knitting-machine. No. 1,005,620; Oct. 10; Sp. p. 2316; Gaz. vol. 171; p. 399.
Dubilier, William, Seattle, Wash. High-frequency apparatus. No. 1,004,152; Sept. 26; Sp. p. 4375; Gaz. vol. 170; p. 775.
Dubruiel, Omer F., Bovey, Minn. Wire-puller. No. 1,009,492; Nov. 21; Sp. p. 4183; Gaz. vol. 172; p. 720.
Dubuar, James A., *et al.* (See Shafer, Frank B., assignor.)
Dubuque Gasoline Engine Company. (See Smith, Bernard O., assignor.)
Dubus, Jules F., assignor of one-half to G. M. Appell, New Orleans, La. Rotary engine. No. 1,012,616; Dec. 26; Sp. p. 4917; Gaz. vol. 173; p. 885.
Ducharme, William S., Johnstown, Pa. Vise. No. 982,483; Jan. 24; Sp. p. 5106; Gaz. vol. 162; p. 881.
Duchesne, Ernest, Viauville, Montreal, Quebec, Canada. Piston-packing. No. 1,008,799; Nov. 14; Sp. p. 2648; Gaz. vol. 172; p. 444.
Duck, William W., Stillwater, Okla. Music-leaf turner. No. 981,250; Jan. 10; Sp. p. 2479; Gaz. vol. 162; p. 403.
Ducker, Orlando, Washington, D. C. Can. No. 1,009,654; Nov. 21; Sp. p. 4479; Gaz. vol. 172; p. 771.
Ducker, Orlando, Washington, D. C. Gas-engine valve. No. 1,010,353; Nov. 28; Sp. p. 5921; Gaz. vol. 172; p. 1054.
Duckett, Jerry E., Bear, Ark. Rail-joint. No. 982,131; Jan. 17; Sp. p. 4352; Gaz. vol. 162; p. 727.
Duckwitz, William F., Cleveland, Ohio. Lock. No. 992,552; May 16; Sp. p. 3713; Gaz. vol. 166; p. 664.
Dudderar, Daniel W., Mount Airy, Md. Noise-muffler for exhaust-pipes. No. 984,890; Feb. 21; Sp. p. 3526; Gaz. vol. 163; p. 623.
Dudgeon, Hugh H., Danville, Ill. Card or ticket holder. No. 1,009,726; Nov. 28; Sp. p. 4644; Gaz. vol. 172; p. 843.
Dudjak, Theodore, *et al.* (See Laski, Antony, assignor.)
Dudley, Carl H., Oberlin, Ohio. Dish rinsing and drying rack. No. 1,008,124; Nov. 7; Sp. p. 1024; Gaz. vol. 172; p. 166.
Dudley, Charles F., Reading, Mass. Window-screen. No. 992,760; May 23; Sp. p. 4129; Gaz. vol. 166; p. 764.
Dudley, George W., assignor of one-fourth to J. W. Sheets, Jr., Staunton, Va. Vehicle-wheel. No. 993,043; May 23; Sp. p. 4751; Gaz. vol. 166; p. 864.
Dudley, Mathew H., assignor of one-half to H. E. McWane, Lynchburg, Va. Pipe-joint. No. 993,661; May 30; Sp. p. 6096; Gaz. vol. 166; p. 1104.
Dudley, Plimmon H., New York, N. Y. Manufacture of steel. No. 1,009,707; Nov. 21; Sp. p. 4580; Gaz. vol. 172; p. 789.
Dudley, Raymond C., Chicago, Ill. Car-roof. No. 992,409; May 16; Sp. p. 3409; Gaz. vol. 166; p. 614.
Dudley, William H. C., Jr., Americus, Ga. Kinetoscope-shutter. No. 1,011,593; Dec. 12; Sp. p. 2721; Gaz. vol. 173; p. 456.
Dudly, Albert, Sr., Menominee, Mich. Wrench. No. 1,003,997; Sept. 26; Sp. p. 3979; Gaz. vol. 170; p. 720.
Dueease, James A., Memphis, Tenn. Cleaning and drying mitt. No. 993,662; May 30; Sp. p. 6098; Gaz. vol. 166; p. 1104.
Duell, Holland S., New Rochelle, N. Y. Loose-leaf-ledger construction. No. 981,179; Jan. 10; Sp. p. 2284; Gaz. vol. 162; p. 378.
Duemler, Samuel O., Springfield, Mo. Blacksmith's support. No. 988,447; Apr. 4; Sp. p. 338; Gaz. vol. 165; p. 54.
Duenkel, Charles L., East Orange, N. J., assignor of one-half to H. A. Verges, Milwaukee, Wis. Elevator meter and indicator. No. 993,766; May 30; Sp. p. 6324; Gaz. vol. 166; p. 1141.
Duer, Charles W., Chicago, Ill. Automobile. No. 997,975; July 18; Sp. p. 2967; Gaz. vol. 168; p. 544.
Duesterhoff, Frank, Silver Lake, Minn. Belt-guide. No. 994,910; June 13; Sp. p. 1816; Gaz. vol. 167; p. 319.
Dufay, Louis, assignor to Société Anonyme des Plaques & Produits Dufay, Chantilly, France. Manufacture of screens or colored surfaces for color photography. No. 1,003,720; Sept. 19; Sp. p. 3349; Gaz. vol. 170; p. 599.

Alphabetical list of patentees—Continued.

Duff, Alfred B., Pittsburg, Pa. Apparatus for recovering ammonia. No. 1,003,887; Sept. 19; Sp. p. 3679; Gaz. vol. 170; p. 655.
Duff, Alfred B., Pittsburgh, Pa. Gas-producer. No. 1,010,242; Nov. 28; Sp. p. 5694; Gaz. vol. 172; p. 1017.
Duff Manufacturing Company, The. (See Freed, George F., assignor.)
Duff Manufacturing Company, The. (See Hylander and Freed, assignors.)
Duff, William R. (See Seabrook and Duff.)
Duffey, William H., South Bethlehem, Pa. Pipe-wrench. No. 1,000,724; Aug. 15; Sp. p. 3256; Gaz. vol. 169; p. 588.
Duffner, Matthew, Pittsburgh, Pa. Exercising apparatus. No. 1,006,470; Oct. 24; Sp. p. 4204; Gaz. vol. 171; p. 757.
Duffy, Charles H., administrator. (See Dunham, William L.)
Duffy, James W., Chicago, Ill., assignor to The Fuller Manufacturing Company, New Haven, Conn. Sheet-separating device. No. 1,009,289; Nov. 21; Sp. p. 3722; Gaz. vol. 172; p. 648.
Duffy, John J., Matagorda, Tex. Apparatus for delivering and hauling seines. No. 1,012,065; Dec. 19; Sp. p. 3764; Gaz. vol. 173; p. 652.
Duffy, Michael J., New York, N. Y. Sash-balance. No. 1,010,130; Nov. 28; Sp. p. 5473; Gaz. vol. 172; p. 981.
Duffy, W. J., *et al.* (See Pierce, Franklin A., assignor.)
Duffy, Wilbye, assignor to Landis Machine Company, St. Louis, Mo. Thread-looper for sewing-machines. No. 992,863; May 23; Sp. p. 4365; Gaz. vol. 166; p. 802.
Duffy, William J., *et al.* (See Miller, Robert I., assignor.)
Dufty, Arthur, La Fayette, Ind., assignor of one-half to F. L. Napier, St. Joseph, Mich. Automatic flushometer-valve. No. 990,530; Apr. 25; Sp. p. 4871; Gaz. vol. 165; p. 850.
Duggan, William, Jr., Dunedin, New Zealand. Door-closing apparatus. No. 1,001,372; Aug. 22; Sp. p. 4684; Gaz. vol. 169; p. 845.
Dugger, Neal. (See Bohannan and Dugger.)
Duggins, D. D., administrator. (See Williams, Irvin.)
Duhé, Elie. (See Chaix and Duhé.)
Duhem, Victor L., Fruitvale, Cal. Film-mover and shutter for motion-picture machines. No. 995,061; June 13; Sp. p. 2131; Gaz. vol. 167; p. 370.
Duigan, George O., Marrickville, New South Wales, Australia. Mirror adjustment. No. 1,009,727; Nov. 28; Sp. p. 4645; Gaz. vol. 172; p. 844.
Duke, Calvin F., Indianapolis, Ind. Hacksaw. No. 1,000,159; Aug. 8; Sp. p. 1998; Gaz. vol. 169; p. 358.
Duke, Fred H., *et al.* (See Nelson, George A., assignor.)
Dukelow, John E., Chicago, Ill. Chain driving-belt. No. 982,802; Jan. 31; Sp. p. 5762; Gaz. vol. 162; p. 1015.
Dukes, Charles A. (See Peterson and Dukes.)
Dukes, Harry S., Little Rock, Ark. Work-holder attachment for type-writer desks. No. 992,931; May 23; Sp. p. 4505; Gaz. vol. 166; p. 826.
Dukes, Thomas C., Las Animas, Colo. Door-holder. No. 999,017; July 25; Sp. p. 5317; Gaz. vol. 168; p. 946.
Dull, Raymond W., Aurora, Ill. Concrete reinforcement. No. 985,734; Feb. 28; Sp. p. 5400; Gaz. vol. 163; p. 946.
Dull, Raymond W., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Settling-tank. No. 1,005,522; Oct. 10; Sp. p. 2070; Gaz. vol. 171; p. 364.
Dulles, Charles W., Philadelphia, Pa. Legging. No. 1,007,076; Oct. 31; Sp. p. 5557; Gaz. vol. 171; p. 1023.
Dulles, William. (See Condict, George H., assignor.)
Dulles, William, New York, N. Y. Machine for rolling sheet-glass. No. 1,003,093; Sept. 12; Sp. p. 2013; Gaz. vol. 170; p. 346.
Dumas, Frank, Burke, N. Y. Potato-digger. No. 981,985; Jan. 17; Sp. p. 4064; Gaz. vol. 162; p. 678.
Dumas, Joel B., Coleman, Tex. Steam-turbine for locomotives. No. 1,010,878; Dec. 5; Sp. p. 1067; Gaz. vol. 173; p. 167.
Dummert, Horace W. (See Thoms and Dummert.)
Dummit, Bert, Pierce City, Mo. Type-writer attachment. No. 989,582; Apr. 18; Sp. p. 2772; Gaz. vol. 165; p. 492.
Dumont, Maurice, Aurora, Ill. Gear. No. 1,002,236; Sept. 5; Sp. p. 103; Gaz. vol. 170; p. 12.
Dunai, Josef, Racine, Wis. Lock. No. 1,006,922; Oct. 24; Sp. p. 5221; Gaz. vol. 171; p. 918.
Dunai, Josef, Racine, Wis. Lock. No. 1,012,337; Dec. 19; Sp. p. 4357; Gaz. vol. 173; p. 746.
Dunavon, James H., assignor of three-sixteenths to J. C. Elwell and three-sixteenths to W. J. Kerr, Pueblo, Colo. Grate-bar. No. 1,010,243; Nov. 28; Sp. p. 5695; Gaz. vol. 172; p. 1018.
Dunaway, Joseph H., San Francisco, Cal. Watch-key. No. 1,004,755; Oct. 3; Sp. p. 448; Gaz. vol. 171; p. 74.
Dunbar, Francis W., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Central-energy telephone system. No. 984,547; Feb. 21; Sp. p. 2816; Gaz. vol. 163; p. 503.
Dunbar, George B., Detroit, Mich. Rotary engine. No. 994,825; June 13; Sp. p. 1610; Gaz. vol. 167; p. 290.
Dunbar, George W., New Orleans, La. Device for applying friction-tops to cans. No. 1,002,656; Sept. 5; Sp. p. 1052; Gaz. vol. 170; p. 157.
Dunbar, Howard W., Newark, N. J., assignor to Western Electric Company, New York, N. Y. Indicator for telephone switching apparatus. No. 1,012,066; Dec. 19; Sp. p. 3766; Gaz. vol. 173; p. 652.
Dunbar, William A. M., Oakland, Cal. Hames. No. 1,000,901; Aug. 15; Sp. p. 3621; Gaz. vol. 169; p. 651.
Dunbar, William F. (See Saino, Lynch, Dunbar, and Weatherford.)
Dunbeck, William A., Fort Douglas, Utah. Spigot. No. 1,002,140; Aug. 29; Sp. p. 6258; Gaz. vol. 169; p. 1132.
Duncan, Arthur L. (See Anderson and Duncan.)
Duncan, Arthur L., Oakland, Cal. Can-marking machine. No. 1,002,973; Sept. 12; Sp. p. 1766; Gaz. vol. 170; p. 306.
Duncan, Arthur T., Clinton, Mo. Tool-holder. No. 1,008,022; Nov. 7; Sp. p. 815; Gaz. vol. 172; p. 129.
Duncan, Charles A., Mullan, Idaho. Jig. No. 995,848; June 20; Sp. p. 3843; Gaz. vol. 167; p. 668.
Duncan, Charles E., Sault Ste. Marie, Ontario, Canada, and J. Fawell, Pittsburg, Pa.; said Duncan assignor to said Fawell. Manufacture of structural material. No. 996,007; June 20; Sp. p. 4149; Gaz. vol. 167; p. 723.
Duncan, Charles H., New York, N. Y. Aeroplane. No. 1,004,558; Oct. 3; Sp. p. 17; Gaz. vol. 171; p. 5.
Duncan, Charles H., New York, N. Y. Aeroplane. No. 1,004,559; Oct. 3; Sp. p. 23; Gaz. vol. 171; p. 6.
Duncan, George T., Sr., Seattle, Wash. Bridge-buckle for top hame-straps. No. 1,005,621; Oct. 10; Sp. p. 2319; Gaz. vol. 171; p. 399.
Duncan, John C., Ensley, Ala. Device for forcing vapor through cigars. No. 1,011,763; Dec. 12; Sp. p. 3060; Gaz. vol. 173; p. 512.
Duncan, John W., Houtzdale, Pa. Device for filling ice-cream cones. No. 999,018; July 25; Sp. p. 5318; Gaz. vol. 168; p. 948.
Duncan, Lee, Muskogee, Okla. Oil-burner. No. 990,347; Apr. 25; Sp. p. 4435; Gaz. vol. 165; p. 785.
Duncan, Oscar R., Jefferson, Iowa. Gun-license-certificate holder. No. 1,002,657; Sept. 5; Sp. p. 1055; Gaz. vol. 170; p. 158.
Duncan, Selden, Dallas, Tex. Hotel-register. No. 997,184; July 4; Sp. p. 1237; Gaz. vol. 168; p. 200.
Duncan, William J., Wardner, Idaho. Ventilating attachment for shoes. No. 997,658; July 11; Sp. p. 2218; Gaz. vol. 168; p. 392.
Duncan, William M., Alton, Ill. Ignition-arch for furnaces. No. 1,006,368; Oct. 17; Sp. p. 3980; Gaz. vol. 171; p. 693.
Duncan, William M., Alton, Ill. Car or truck. No. 1,006,369; Oct. 17; Sp. p. 3981; Gaz. vol. 171; p. 693.
Duncan, William M., Alton, Ill. Sand-molding apparatus. No. 1,006,449; Oct. 17; Sp. p. 4145; Gaz. vol. 171; p. 721.
Duncan, William T., Los Angeles, Cal. Intercepting-trap. No. 981,593; Jan. 10; Sp. p. 3185; Gaz. vol. 162; p. 520.
Duncan, William W., New York, N. Y. Game apparatus. No. 986,147; Mar. 7; Sp. p. 810; Gaz. vol. 164; p. 132.
Duncanson, Vincent E., Lynchburg, Ohio. Clock. No. 986,447; Mar. 14; Sp. p. 1461; Gaz. vol. 164; p. 263.
Dunfee, Jesse, assignor of one-half to S. Rinner, Coshocton, Ohio. Double-facer for corrugated-paper machines. No. 982,176; Jan. 17; Sp. p. 4425; Gaz. vol. 162; p. 741.
Dunfee, John C. (See Schneider and Dunfee.)
Dungan, George W., Strasburg, Pa. Washing-machine. No. 1,009,728; Nov. 28; Sp. p. 4646; Gaz. vol. 172; p. 844.
Dungan, Robert M., Santa Ana, Cal. Airship. No. 1,012,529; Dec. 19; Sp. p. 4716; Gaz. vol. 173; p. 810.
Dungan, Thomas A., Chicago, Ill. Wood-distilling apparatus. No. 1,007,341; Oct. 31; Sp. p. 6131; Gaz. vol. 171; p. 1118.
Dunham, Andrew A. (See Dunham, Henry V. and A. A.)
Dunham, Austin C., Hartford, Conn. Cooking. No. 1,001,627; Aug. 29; Sp. p. 5176; Gaz. vol. 169; p. 950.
Dunham, Carl E., Maddock, N. D. Spring-wheel. No. 1,011,171; Dec. 12; Sp. p. 1744; Gaz. vol. 173; p. 304.
Dunham, Charles L., Steubenville, Ohio. Nut-lock. No. 990,122; Apr. 18; Sp. p. 3903; Gaz. vol. 165; p. 674.
Dunham, Clayton A., Marshalltown, Iowa. Steam-trap. No. 986,967; Mar. 14; Sp. p. 2551; Gaz. vol. 164; p. 441.
Dunham Company, The. (See Dunham, Wiley J., assignor.)
Dunham, Francis S., Chicago, Ill., assignor to Kennicott Water-Softener Company. Water-softening apparatus. No. 993,663; May 30; Sp. p. 6099; Gaz. vol. 166; p. 1105.
Dunham, Franklin H., Los Angeles, Cal. Apparatus for and method of treating asphalt solutions for the production of asphalt cement and the recovery of the lighter products. No. 1,003,040; Sept. 12; Sp. p. 1896; Gaz. vol. 170; p. 327.
Dunham, George C., Cincinnati, Ohio. Washing-machine. No. 983,611; Feb. 7; Sp. p. 768; Gaz. vol. 163; p. 121.
Dunham, George W., assignor to Hudson Motor Car Company, Detroit, Mich. Steering-gear and control mechanism for motor-vehicles. No. 1,001,258; Aug. 22; Sp. p. 4422; Gaz. vol. 169; p. 804.
Dunham, George W., assignor to Chalmers Motor Company, Detroit, Mich. Oil-can holder. No. 1,011,594; Dec. 12; Sp. p. 2722; Gaz. vol. 173; p. 456.

Alphabetical list of patentees—Continued.

Dunham, Henry V. and A. A., Bainbridge, assignors to Casein Company of America, New York, N. Y. Manufacture of dry milk-powder. No. 997,976; July 18; Sp. p. 2968; Gaz. vol. 168; p. 544.
Dunham, Melvin N., Dunkirk, Mont. Mail-case. No. 1,008,315; Nov. 14; Sp. p. 1495; Gaz. vol. 172; p. 274.
Dunham, Wiley J., assignor to The Dunham Company, Berea, Ohio. Clip for metallic frames. No. 1,000,160; Aug. 8; Sp. p. 2000; Gaz. vol. 169; p. 358.
Dunham, William G., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 980,408; Jan. 3; Sp. p. 472; Gaz. vol. 162; p. 81.
Dunham, William J., and E. W. Peck, Gloversville, N. Y. Potato digger and separator. No. 983,694; Feb. 7; Sp. p. 950; Gaz. vol. 163; p. 150.
Dunham, William L., deceased; C. H. Duffy, administrator, assignor of forty-seven and one-half one-hundredths to L. M. Rhinehart, forty-seven and one-half one-hundredths to C. H. Murphy, and five one-hundredths to W. S. Terry, Washington, D. C. Filing-cabinet. No. 982,767; Jan. 24; Sp. p. 5681; Gaz. vol. 162; p. 974.
Dunigan, Michel J., *et al.* (See Edgar, George B., Jr., assignor.)
Dunkel, Wilber R., Pana, assignor of one-half to C. R. Scroggin, Harristown, Ill. Starting device for internal-combustion engines. No. 980,502; Jan. 3; Sp. p. 711; Gaz. vol. 162; p. 114.
Dunkel, Wilber R., Pana, assignor of one-half to C. R. Scroggin, Harristown, Ill. Starting device. No. 1,004,635; Oct. 3; Sp. p. 185; Gaz. vol. 171; p. 32.
Dunkel, Wilber R., Pana, assignor of one-half to C. R. Scroggin, Harristown, Ill. Starting device. No. 1,004,636; Oct. 3; Sp. p. 187; Gaz. vol. 171; p. 33.
Dunkelberger, Joseph M. (See Cruikshank, John, assignor.) (Reissue.)
Dunkle, Meryl B., Moscow, Idaho. Aeroplane. No. 985,665; Feb. 28; Sp. p. 5215; Gaz. vol. 163; p. 922.
Dunkle, Newton H. (See Seyler and Dunkle.)
Dunkle, Samuel K., Wheeling, W. Va., assignor to The Safety Foot Guard and Railway Appliance Company, Columbus, Ohio. Foot-guard. No. 994,134; June 6; Sp. p. 64; Gaz. vol. 167; p. 13.
Dunkley, Edgar R. (See Dunkley, Thomas R., assignor.)
Dunkley, James E., Los Angeles, Cal. Liquid-fuel burner. No. 993,768; May 30; Sp. p. 6331; Gaz. vol. 166; p. 1141.
Dunkley, Thomas R., Maumbury Way, Dorchester, England, assignor to E. R. Dunkley, Stratford, Canada. Disinfectant-distributing device. No. 1,002,974; Sept. 12; Sp. p. 1770; Gaz. vol. 170; p. 307.
Dunlap, Charles E., Zanesville, Ohio. Hen's nest. No. 1,004,153; Sept. 26; Sp. p. 4375; Gaz. vol. 170; p. 776.
Dunlap, David M., Chicora, Pa. Tank-heater. No. 1,004,391; Sept. 26; Sp. p. 4846; Gaz. vol. 170; p. 856.
Dunlap, Harry G., Chicora, Pa. Reversible check-valve and cut-off. No. 1,005,523; Oct. 10; Sp. p. 2072; Gaz. vol. 171; p. 364.
Dunlap, John A. (See Goehst and Dunlap.)
Dunlap, John W., assignor of one-half to C. C. Travis, Chicago, Ill. Type-writer. No. 1,009,391; Nov. 21; Sp. p. 3964; Gaz. vol. 172; p. 685.
Dunlap, John W., assignor of one-half to C. C. Travis, Chicago, Ill. Type-writer. No. 1,009,392; Nov. 21; Sp. p. 3966; Gaz. vol. 172; p. 685.
Dunlap, Joseph B., Tulsa, Okla. Railway-crossing. No. 1,000,590; Aug. 15; Sp. p. 2966; Gaz. vol. 169; p. 543.
Dunlap, Joseph B., assignor of one-eighth to G. Ricker, Tulsa, Okla., and E. L. Ricker. Spring-wheel. No. 998,679; July 25; Sp. p. 4526; Gaz. vol. 168; p. 825.
Dunlap, Nathaniel H. (See Shiver, James B., assignor.)
Dunlap, Nora E., Chicago, Ill. Bust-girdle. No. 985,735; Feb. 28; Sp. p. 5401; Gaz. vol. 163; p. 946.
Dunlap, William P., Franklinton, La. Log-wagon. No. 990,241; Apr. 25; Sp. p. 4196; Gaz. vol. 165; p. 748.
Dunlop, James, Dennistoun, Glasgow, Scotland. Apparatus for transmitting power. No. 989,583; Apr. 18; Sp. p. 2773; Gaz. vol. 165; p. 492.
Dunn, Charles B., Birmingham, Ala. Grading-machine. No. 998,680; July 25; Sp. p. 4528; Gaz. vol. 168; p. 826.
Dunn, Charles S., *et al.* (See Kessler, Mervin, assignor.)
Dunn Edge Tool Company. (See Robinson, Winfield S., assignor.)
Dunn, Edward A., Newton, Mass. Filing system. No. 982,662; Jan. 24; Sp. p. 5451; Gaz. vol. 162; p. 940.
Dunn, Edward A., Newton, Mass. Filing system. No. 982,708; Jan. 24; Sp. p. 5548; Gaz. vol. 162; p. 955.
Dunn, Edward A., Newton, Mass. Filing system. No. 1,002,237; Sept. 5; Sp. p. 105; Gaz. vol. 170; p. 12.
Dunn, Edward L., Worcester, Mass. Push-button control for elevator and dumb-waiter systems. No. 987,446; Mar. 21; Sp. p. 3564; Gaz. vol. 164; p. 635.
Dunn, Edward L., Worcester, Mass. Elevator-operating system. No. 987,673; Mar. 21; Sp. p. 4026; Gaz. vol. 164; p. 715.
Dunn, Edward L., Worcester, Mass. Electric control for elevators. No. 989,584; Apr. 18; Sp. p. 2775; Gaz. vol. 165; p. 493.
Dunn, Frank P., assignor to The Anderson Tool Company, Anderson, Ind. Scale. No. 984,891; Feb. 21; Sp. p. 3528; Gaz. vol. 163; p. 624.
Dunn, Frank P., assignor to The Anderson Tool Company, Anderson, Ind. Double scale. No. 1,012,339; Dec. 19; Sp. p. 4362; Gaz. vol. 173; p. 747.
Dunn, Frank P., assignor of one-fourth to G. P. Louiso and thirty one-hundredths to The Anderson Tool Company, Anderson, Ind. Scale. No. 1,001,002; Aug. 22; Sp. p. 3907; Gaz. vol. 169; p. 719.
Dunn, Gano, East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Lubricating device for journal-bearings. No. 1,006,370; Oct. 17; Sp. p. 3982; Gaz. vol. 171; p. 694.
Dunn, George F., Brockton, assignor to W. B. Arnold, North Abington, Mass. Welt for boots or shoes. No. 983,544; Feb. 7; Sp. p. 625; Gaz. vol. 163; p. 98.
Dunn, George F., Brockton, assignor to W. B. Arnold, North Abington, Mass. Welt for boots or shoes. No. 983,695; Feb. 7; Sp. p. 952; Gaz. vol. 163; p. 151.
Dunn, Harry D. (See Wrage and Dunn.)
Dunn, James, Tacoma, Wash. Canning apparatus. No. 1,006,371; Oct. 17; Sp. p. 3983; Gaz. vol. 171; p. 694.
Dunn, Jerry J., Ellwood City, assignor to The Shelby Steel Tube Company, Pittsburg, Pa. Reeling tubes. No. 999,635; Aug. 1; Sp. p. 863; Gaz. vol. 169; p. 150.
Dunn, Jerry J., Ellwood City, assignor to The Shelby Steel Tube Company, Pittsburgh, Pa. Making steel or alloy tubes. No. 1,006,186; Oct. 17; Sp. p. 3560; Gaz. vol. 171; p. 630.
Dunn, John, Winnipeg, Manitoba, Canada. T pipe and plug for heating systems. No. 998,843; July 25; Sp. p. 4908; Gaz. vol. 168; p. 883.
Dunn, Joseph E., Philadelphia, Pa. Vacuum evaporator or heater. (Reissue.) No. 13,245; May 30; Sp. p. 7000; Gaz. vol. 166; p. 1255.
Dunn, Joseph E., Philadelphia, Pa. Evaporating and concentrating apparatus. No. 995,776; June 20; Sp. p. 3687; Gaz. vol. 167; p. 643.
Dunn, Nelson F. (See Grable, Guy C., assignor.)
Dunn, Sola B., Chicago, Ill. Veterinary molar-extractor. No. 991,772; May 9; Sp. p. 2016; Gaz. vol. 166; p. 363.
Dunn, Thomas, London, England. Pneumatic tire. No. 997,443; July 11; Sp. p. 1756; Gaz. vol. 168; p. 318.
Dunn, Thomas F., New York, N. Y. Dirigible airship. No. 1,006,734; Oct. 24; Sp. p. 4776; Gaz. vol. 171; p. 850.
Dunn, Thomas F., New York, N. Y. Dirigible airship. No. 1,006,998; Oct. 24; Sp. p. 5373; Gaz. vol. 171; p. 942.
Dunn, Thomas J., assignor to J. S. McAnany, San Francisco, Cal. Liquid-soap dispenser. No. 982,768; Jan. 24; Sp. p. 5683; Gaz. vol. 162; p. 974.
Dunn, William, Pasadena, Cal. Gas-furnace. No. 990,808; Apr. 25; Sp. p. 5479; Gaz. vol. 165; p. 944.
Dunn, William A., Smithville, assignor of one-half to A. M. Miller, Duluth, Minn. Roller-mill. No. 1,002,906; Sept. 12; Sp. p. 1637; Gaz. vol. 170; p. 283.
Dunn, William A., Smithville, assignor of one-half to A. M. Miller, Duluth, Minn. Roller-mill. No. 1,002,907; Sept. 12; Sp. p. 1642; Gaz. vol. 170; p. 283.
Dunn, William F., Philadelphia, Pa. Locking device for cars and the like. No. 999,969; Aug. 8; Sp. p. 1553; Gaz. vol. 169; p. 293.
Dunne, John W., assignor to Blair Atholl Aeroplane Syndicate Limited, London, England. Aeroplane. No. 1,003,721; Sept. 19; Sp. p. 3352; Gaz. vol. 170; p. 600.
Dünnebier, Max. (See Spannuth and Dünnebier.)
Dünnebier, Max R. (See Spannuth and Dünnebier.)
Dunning, Callest S. (See Clow, William C., assignor.)
Dunning, Edward, Tulsa, Okla. Nut-lock. No. 992,486; May 16; Sp. p. 3568; Gaz. vol. 166; p. 639.
Dunning, Elmer D., Philadelphia, Pa. Lamp for automobiles or other vehicles. No. 982,803; Jan. 31; Sp. p. 5766; Gaz. vol. 162; p. 1016.
Dunning, Frank. (See Byrne, Charles A., assignor.)
Dunning, Robert A., Yarmouth, Me., assignor to K. Shaffer, trustee, Boston, Mass. Sponge thread. No. 1,002,829; Sept. 12; Sp. p. 1434; Gaz. vol. 170; p. 255.
Dunoyer, Louis D. J. A., Versailles, France. Electromagnetic compass. No. 989,134; Apr. 11; Sp. p. 1766; Gaz. vol. 165; p. 308.
Duntley, Adelaide P. (See Maconochie, Jean W., assignor.)
Duntley, William O., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Controller for electric drills. No. 991,431; May 2; Sp. p. 1287; Gaz. vol. 166; p. 215.
Duntley, William O., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Electric drill. No. 993,352; May 30; Sp. p. 5401; Gaz. vol. 166; p. 998.
Duntlin, Frank C., *et al.* (See Caldwell, John, assignor.)
Dunton, Addis J., Ketchikan, Alaska. Signaling device for telephone systems. No. 995,849; June 20; Sp. p. 3847; Gaz. vol. 167; p. 669.
Dunton, George E., New York, N. Y. Composition for treating molds used in the electrotyping art. No. 993,157; May 23; Sp. p. 4989; Gaz. vol. 166; p. 902.
Dunton, George E., New York, N. Y. Treating molds used in the art of electrotyping. No. 994,826; June 13; Sp. p. 1612; Gaz. vol. 167; p. 291.
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Dunton, George E., New York, N. Y. Treating molds used in electrotyping. No. 1,005,007; Oct. 3; Sp. p. 962; Gaz. vol. 171; p. 160.
Dunton, Orravill L., North Adams, Mass. Aeroplane. No. 1,002,908; Sept. 12; Sp. p. 1644; Gaz. vol. 170; p. 284.
Dunwody, Richard G., Atlanta, Ga. Armor for tires. No. 980,930; Jan. 10; Sp. p. 1667; Gaz. vol. 162; p. 289.
Dupcza, Peter A., Lyndora, Pa. Safety elevator device. No. 988,759; Apr. 4; Sp. p. 1011; Gaz. vol. 165; p. 160.
Dupcza, Peter A., Lyndora, Pa. Machine-gun. No. 990,642; Apr. 25; Sp. p. 5091; Gaz. vol. 165; p. 888.
Duplessis, Elouild, Sorel, Quebec, Canada. Ice-breaker. No. 993,440; May 30; Sp. p. 5600; Gaz. vol. 166; p. 1027.
Duplex Magneto and Spark Plug Company, The. (See Messerschmid, Carl, assignor.)
Duplex Metals Company. (See Monnot, John F., assignor.)
Duplex Printing Press Company. (See Bechman, Henry F., assignor.)
Dupont, Henry H., Indianapolis, Ind. Split-knob insulator. No. 981,074; Jan. 10; Sp. p. 2063; Gaz. vol. 162; p. 340.
Dupont, Henry H., Indianapolis, Ind., assignor to Von Duprin Fire Exit Latch Co. Emergency exit-lock. No. 983,355; Feb. 7; Sp. p. 208; Gaz. vol. 163; p. 36.
Dupont, John F. (See Moder, John A., assignor.)
Dupont, Louis H., and T. A. Killman, Nashville, Tenn. Vending-machine. No. 985,516; Feb. 28; Sp. p. 4919; Gaz. vol. 163; p. 872.
Dupont, Louis H., and T. A. Killman, Nashville, Tenn. Vending-machine. No. 997,546; July 11; Sp. p. 1959; Gaz. vol. 168; p. 351.
Dupré, Wilfred, Worcester, assignor to C. L. Leonard and J. W. Brittain, Westboro, Mass. Egg-beater. No. 991,432; May 2; Sp. p. 1291; Gaz. vol. 166; p. 215.
Dupuis, Charles, Vincennes, France. Manufacturing kinematographic bands. No. 987,797; Mar. 28; Sp. p. 4306; Gaz. vol. 164; p. 784.
Dupuis, Frank. (See Wood and Dupuis.)
Dupuy, Emile. (See Abarno, Michael, assignor.)
Duquette, Jennie, Chicopee Falls, Mass. Stay. No. 997,659; July 11; Sp. p. 2219; Gaz. vol. 168; p. 392.
Durant, Henry T. (See Hommel and Durant.)
Durant, Henry T., assignor to The Metals Extraction Corporation Limited, London, England. Apparatus for bringing a gas into contact with a liquid. No. 999,213; Aug. 1; Sp. p. 43; Gaz. vol. 169; p. 9.
Durant, Thecla L. (See Mahoney and Durant.)
Durban, Thomas E., assignor to Erie City Iron Works, Erie, Pa. Furnace-casing. No. 997,977; July 18; Sp. p. 2970; Gaz. vol. 168; p. 545.
Durban, Thomas E., Erie, Pa., assignor to Erie City Iron Works. Furnace-casing. No. 998,079; July 18; Sp. p. 3209; Gaz. vol. 168; p. 581.
Durbin, Frank H., *et al.* (See Shadall, Charles E., assignor.)
Durbin, James F. and V. S., Fort Scott, Kans. Railway-car coupling. No. 1,000,591; Aug. 15; Sp. p. 2968; Gaz. vol. 169; p. 543.
Durbin, Nathan, Taylorville, Ill. Gate. No. 981,397; Jan. 10; Sp. p. 2784; Gaz. vol. 162; p. 453.
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Durbin, Vernon, assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Selective signaling system. No. 1,008,452; Nov. 14; Sp. p. 1874; Gaz. vol. 172; p. 322.
Durbin, Votaw S. (See Durbin, James F. and V. S.)
Durbrow, George W., Los Angeles, Cal. Method of and means for extracting micro-organisms and solids from water. No. 1,006,070; Oct. 17; Sp. p. 3287; Gaz. vol. 171; p. 587.
Durell, George M., Toledo, Ohio. Self-locking and point-setting composing-stick. No. 984,804; Feb. 21; Sp. p. 3368; Gaz. vol. 163; p. 595.
Durer, John O., Upper Sandusky, Ohio. Shock-tying device. No. 1,004,756; Oct. 3; Sp. p. 449; Gaz. vol. 171; p. 75.
Durfee, Lydia M., assignor of one-half to S. Fishbough, Paterson, N. J. Ironing-table. No. 986,912; Mar. 14; Sp. p. 2457; Gaz. vol. 164; p. 424.
Durham Duplex Razor Company. (See Sheehan, Thomas C., assignor.)
Durham, Harold E., Douglas, Mich. Attachment for lamp-burners. No. 1,006,372; Oct. 17; Sp. p. 3984; Gaz. vol. 171; p. 694.
Durieu, Léon, New York, N. Y. Arch-support. No. 985,666; Feb. 28; Sp. p. 5219; Gaz. vol. 163; p. 922.
Durkee, Charles T., Fremont, Nebr. Cornice-gutter. No. 1,000,080; Aug. 8; Sp. p. 1837; Gaz. vol. 169; p. 332.
Durkee, James B. (See Killits and Durkee.)
Durkee, Ernest W., Brockton, Mass. Shoe-last. No. 1,003,888; Sept. 19; Sp. p. 3682; Gaz. vol. 170; p. 655.
Durland, Emma C., Kansas City, Mo. Combination garment and hose supporter. No. 988,179; Mar. 28; Sp. p. 5152; Gaz. vol. 164; p. 914.
Durnbaugh, Truman, Wabash, Ind. Dust-catcher for gas-pipes. No. 987,559; Mar. 21; Sp. p. 3768; Gaz. vol. 164; p. 673.
Durrenberger, Georeger, assignor to M. N. Jarvis, Portland, Conn. Tapping-chuck. No. 1,010,743; Dec. 5; Sp. p. 772; Gaz. vol. 173; p. 121.
Durrum, Arthur S., Dayton, N. Mex. Match-safe. No. 1,007,546; Oct. 31; Sp. p. 6589; Gaz. vol. 171; p. 1189.
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Durst, Rufus G., and G. P. Nabors, Tampa, Fla. Magazine-hammer. No. 983,221; Jan. 31; Sp. p. 6646; Gaz. vol. 162; p. 1156.
Durville, Pierre H. G., Paris, France. Aluminium bronze. No. 1,007,548; Oct. 31; Sp. p. 6593; Gaz. vol. 171; p. 1190.
Durward, William W. (See Tuttle, John J., assignor.)
Duryea, Benjamin L., *et al.* (See Wooster, Philip L., assignor.)
Duryea, Charles E., Reading, Pa. Internal-combustion engine. No. 1,007,277; Oct. 31; Sp. p. 6003; Gaz. vol. 171; p. 1095.
Duryea, Charles R., Amityville, and F. Reuter, New York, N. Y. Binding for books. No. 998,283; July 18; Sp. p. 3679; Gaz. vol. 168; p. 656.
Duryea, George W., and C. E. Kern, Brooklyn, N. Y. Lock. No. 987,287; Mar. 21; Sp. p. 3231; Gaz. vol. 164; p. 583.
Duryea Manufacturing Company *et al.* (See Wooster, Philip L., assignor.)
Duryea, Otho C. (See White and Duryea.)
Duryea, Otho C., and M. C. White, assignors to Duryea-White Machinery Company, Los Angeles, Cal. Gas-engine. No. 995,062; June 13; Sp. p. 2134; Gaz. vol. 167; p. 370.
Duryea-White Machinery Company. (See Duryea and White, assignors.)
Duryee, Frederick G., Fort Wayne, Ind., assignor to General Electric Company. Combined watchman's clock and telephone system. No. 1,010,415; Dec. 5; Sp. p. 24; Gaz. vol. 173; p. 6.
Duryee, Gustavus A., New York, N. Y. Telephone attachment. No. 1,002,238; Sept. 5; Sp. p. 108; Gaz. vol. 170; p. 13.
Dusch, Charles A., Watson, W. Va. Switch-lever. No. 989,585; Apr. 18; Sp. p. 2790; Gaz. vol. 165; p. 493.
Dusenbery, Jarvis O., Nunda, N. Y. Chuck-jaw. No. 994,911; June 13; Sp. p. 1817; Gaz. vol. 167; p. 319.
Dusenbury, Frank, Mena, Ark. Buggy-seat. No. 982,484; Jan. 24; Sp. p. 5107; Gaz. vol. 162; p. 881.
Dusha, Paul F. (See Holub and Dusha.)
Dussault, Horace. (See Daudelin, Joseph N., assignor.)
Dustin, Fred G., Minneapolis, Minn. Motor-starting switch. No. 1,000,384; Aug. 15; Sp. p. 2495; Gaz. vol. 169; p. 467.
Dustin, John F., Fulton, N. Y. Electromechanical stopping mechanism for looms. No. 988,986; Apr. 11; Sp. p. 1462; Gaz. vol. 165; p. 257.
Dustin, John F., Fulton, N. Y. Loom-shuttle. No. 994,578; June 6; Sp. p. 992; Gaz. vol. 167; p. 165.
Dustin, John F., Fulton, N. Y. Cop-tube. No. 1,010,354; Nov. 28; Sp. p. 5923; Gaz. vol. 172; p. 1054.
Dustin, John F., assignor of one-half to J. W. Stevenson, Fulton, N. Y. Shuttle. No. 994,066; May 30; Sp. p. 6915; Gaz. vol. 166; p. 1242.
Duston, Ernest W., assignor to The Blake and Johnson Company, Waterbury, Conn. Ejecting mechanism for heading-machines. No. 1,004,247; Sept. 26; Sp. p. 4567; Gaz. vol. 170; p. 808.
Duston, Ernest W., assignor to The Blake and Johnson Company, Waterbury, Conn. Punch-block for heading-machines. No. 1,012,341; Dec. 19; Sp. p. 4366; Gaz. vol. 173; p. 747.
Dutcher, Frank, Versailles, Pa. Torpedo-clipping machine. No. 984,892; Feb. 21; Sp. p. 3533; Gaz. vol. 163; p. 624.
Dutcher, Frank, Versailles, Pa. Making fiber torpedo-cases. No. 991,282; May 2; Sp. p. 977; Gaz. vol. 166; p. 165.
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Dutcher, Frank, Versailles, Pa. Train-order deliverer. No. 1,006,373; Oct. 17; Sp. p. 3986; Gaz. vol. 171; p. 694.
Dutcher, Frank, Versailles, Pa. Railway signal-fusee. No. 1,009,136; Nov. 21; Sp. p. 3352; Gaz. vol. 172; p. 593.
Dutcher, Frank, Versailles, Pa. Railway signal-torpedo. No. 1,009,137; Nov. 21; Sp. p. 3353; Gaz. vol. 172; p. 593.
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Dutcher, Frank, Versailles, Pa. Machine for closing the ends of paper tubes. No. 1,012,530; Dec. 19; Sp. p. 4720; Gaz. vol. 173; p. 810.
Dutemple, William R., Cranston, R. I. Fastener. No. 997,660; July 11; Sp. p. 2220; Gaz. vol. 168; p. 392.
Duthie, John M. (See Lee and Duthie.)
Dutton, Benjiman C. (See Legg and Dutton.)
Duus, Peter, Chicago, Ill. Picture-frame form. No. 1,000,725; Aug. 15; Sp. p. 3257; Gaz. vol. 169; p. 589.
Duval, Charles F., and H. McDermott, Leadville, Colo. Pneumatic hammer. No. 998,477; July 18; Sp. p. 4076; Gaz. vol. 168; p. 723.
Duvall, Amos D., and W. E. Dawson, Atlanta, Ohio. Coupling for conductor-wires. No. 990,478; Apr. 25; Sp. p. 4731; Gaz. vol. 165; p. 832.
Duvall, Stanley A., San Francisco, Cal., assignor to J. S. Nash, Chicago, Ill. Armature. No. 994,303; June 6; Sp. p. 411; Gaz. vol. 167; p. 70.
Duvall, Stanley A., Los Angeles, Cal., assignor to J. S. Nash, Chicago, Ill. Magneto. No. 994,304; June 6; Sp. p. 412; Gaz. vol. 167; p. 70.
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Dvorak, John F., Prince George, Va. Weeder. No. 1,011,417; Dec. 12; Sp. p. 2284; Gaz. vol. 173; p. 390.
Dwelly, William H. (See Croston, William J., assignor.)
Dwiggins, John W., Muncie, assignor to A. C. Shimer, Anderson, Ind. Wire-fabric-making machine. No. 983,985; Feb. 14; Sp. p. 1595; Gaz. vol. 163; p. 278.
Dwyer, Daniel, E. S. Garrett, and S. J. O'Donnell, Joplin, Mo. Automatic boiler-cleaner and water-distributer. No. 994,727; June 13; Sp. p. 1368; Gaz. vol. 167; p. 256.
Dwyer, Edward, Clymer, Pa. Valve. No. 987,447; Mar. 21; Sp. p. 3574; Gaz. vol. 164; p. 636.
Dwyer, William E., Leadville, Colo. Dust-arresting and air-purifying device. No. 983,882; Feb. 14; Sp. p. 1365; Gaz. vol. 163; p. 245.
Dwyer, William E., Leadville, Colo. Drill dust-arrester and air-purifier. No. 983,986; Feb. 14; Sp. p. 1607; Gaz. vol. 163; p. 278.
Dye, Garnett J., Florence, Ala. Register for weighing-scales. No. 984,362; Feb. 14; Sp. p. 2399; Gaz. vol. 163; p. 406.
Dye, Glen M., Lamar, Colo. Automatic photoprinting-machine. No. 1,001,373; Aug. 22; Sp. p. 4684; Gaz. vol. 169; p. 846.
Dye, James W. (See Russell and Dye.)
Dye, Joseph O., administrator. (See Goodfellow, Moore.)
Dye, Perry D. (See Adams, Walker S., assignor.)
Dye, Rose E. (See Russell and Dye, assignors.)
Dye, William D., Fowlerton, Ind. Animal-trap. No. 999,705; Aug. 1; Sp. p. 995; Gaz. vol. 169; p. 174.
Dye-Works. (See De la Harpe and Burckhardt, assignors.)
Dye Works formerly L. Durand, Huguenin & Co. (See De la Harpe and Bodmer, assignors.)
Dyer, Frank L., Montclair, N. J. Internal-combustion engine. No. 1,007,278; Oct. 31; Sp. p. 6005; Gaz. vol. 171; p. 1096.
Dyer, Frank L., Upper Montclair, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-reproducer. No. 985,736; Feb. 28; Sp. p. 5403; Gaz. vol. 163; p. 947.
Dyer, Frank L., Montclair, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Battery-well. No. 994,067; May 30; Sp. p. 6917; Gaz. vol. 166; p. 1242.
Dyer, Frank L., Montclair, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Making metallic duplicate sound-records. No. 1,002,659; Sept. 5; Sp. p. 1057; Gaz. vol. 170; p. 158.
Dyer, Frank L., Montclair, and F. D. Lewis, Elizabeth, assignors, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. No. 1,010,355; Nov. 28; Sp. p. 5924; Gaz. vol. 172; p. 1054.
Dyer, Henry H., Somerville, Mass. Pocket-filter. No. 1,000,332; Aug. 8; Sp. p. 2351; Gaz. vol. 169; p. 416.
Dyer, Howard F., Speedwell, Tenn. Safety device for railways. No. 989,135; Apr. 11; Sp. p. 1768; Gaz. vol. 165; p. 308.
Dyer, Leonard H., Greenwich, Conn. Motocycle. No. 985,517; Feb. 28; Sp. p. 4926; Gaz. vol. 163; p. 872.
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Dyer, William A., St. Louis, Mo. Fuel-igniter. No. 1,001,374; Aug. 22; Sp. p. 4691; Gaz. vol. 169; p. 846.
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Dyer, William J., assignor to Honolulu Iron Works Company, Honolulu, Hawaii. Juice-filter. No. 1,005,944; Oct. 17; Sp. p. 3029; Gaz. vol. 171; p. 545.
Dyhrn, Alexandra Gräfin v., Breslau, Germany. Package. No. 992,645; May 16; Sp. p. 3898; Gaz. vol. 166; p. 695.
Dyott, George M., Pittsburg, and C. Carson, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Arc-lamp. No. 999,761; Aug. 8; Sp. p. 1126; Gaz. vol. 169; p. 223.
Dysle, Alfred J. (See Mumaw, John H., assignor.)
Dysle, Charles A., Graton, Cal. Fireless brooder. No. 981,986; Jan. 17; Sp. p. 4066; Gaz. vol. 162; p. 678.
Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone trunking system. No. 981,399; Jan. 10; Sp. p. 2787; Gaz. vol. 162; p. 454.
Dyson, Alfred H., Chicago, Ill., assignor, by mense assignments, to Western Electric Company, New York, N. Y. Telephone system. No. 989,768; Apr. 18; Sp. p. 3159; Gaz. vol. 165; p. 555.
Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Calling device for electrical exchange systems. No. 1,000,902; Aug. 15; Sp. p. 3622; Gaz. vol. 169; p. 651.
Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,002,239; Sept. 5; Sp. p. 111; Gaz. vol. 170; p. 13.
Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,002,240; Sept. 5; Sp. p. 117; Gaz. vol. 170; p. 14.
Dyson, Francis J., and A. H. Daniels, Hereford, England. Saddle-bag for cycles. No. 1,003,346; Sept. 12; Sp. p. 2543; Gaz. vol. 170; p. 437.
Dzerma, Gustav, Bellefontaine, Ohio. Burglar-alarm plates. No. 987,220; Mar. 21; Sp. p. 3086; Gaz. vol. 164; p. 560.
Dzwonkowski, George L., Almond, Wis. Reverse-valve arrangement. No. 1,002,047; Aug. 29; Sp. p. 6097; Gaz. vol. 169; p. 1102.
E. Clemens Horst Company. (See Horst, Emil C., assignor.)
E. Goldman & Co. (See Paul, John T. H., assignor.)
E. Goldman & Company. (See Dobson, George W., assignor.)
E. Ingraham Co., The. (See Stockton and Porter, assignors.)
E. Kirstein Sons' Company. (See McDonald, Percy Z., assignor.)
E. A. Mallory and Sons. (See Barnum, Edwards W., assignor.)
E. A. Mallory and Sons. (See Mallory, Harry B., assignor.)
E. A. Pflueger Company, The. (See Pflueger, Ernest A., assignor.)
E. C. Fuller Company. (See Sturtevant, Charles A., assignor.)
E. G. Staude Manufacturing Co. (See Staude, Edwin G., assignor.) (Reissue.)
E. H. Freeman Electric Company. (See Freeman, Edgar H., assignor.)
E. H. Jacobs Manufacturing Co. (See Bullard, Washington I., assignor.)
E. I. du Pont de Nemours Powder Company. (See Bichel, Christian E., assignor.)
E. I. du Pont de Nemours Powder Company. (See Broadwater, Luke H., assignor.)
E. I. du Pont de Nemours Powder Company. (See Cox, Irving J., assignor.)
E. I. du Pont de Nemours Powder Company, The. (See Du Pont, Francis I., assignor.)
E. I. du Pont de Nemours Powder Company. (See Fleming, Samuel H., assignor.) (Reissue.)
E. I. du Pont de Nemours Powder Company. (See Hammitt and Stanley, assignors.)
E. I. du Pont de Nemours Powder Company. (See Hibbert, Harold, assignor.)
E. I. du Pont de Nemours Powder Company. (See Pier, Mathias, assignor.)
E. I. du Pont de Nemours Powder Company. (See Reese, Charles L., assignor.)
E. I. du Pont de Nemours Powder Company. (See Ritschke, Friedrich A., assignor.)
E. I. du Pont de Nemours Powder Company. (See Sayers, Wilson, and Thorburn, assignors.)
E. I. du Pont de Nemours Powder Company. (See Sokolowski and Issler, assignors.)
E. I. du Pont de Nemours Powder Company, The. (See Sparre, Fin, assignor.)
E. I. du Pont de Nemours Powder Company. (See Stillwell, Howard A., assignor.)
E. M. Hulse Company, The. (See Curtis, James G., assignor.)
E. M. Hulse Company, The. (See Sharp and Pease, assignors.)
E. R. Knott Machine Company. (See Knott, Eustace R., assignor.)
E. R. Thomas Detroit Co. (See Coffin, Howard E., assignor.)
E. R. Thomas Motor Company. (See Chédru, Gustave, assignor.)
E. T. Burrowes Company, The. (See Burrowes, Frank M., assignor.)

Alphabetical list of patentees—Continued.

E. and T. Fairbanks and Company. (See Austin, Stephen J., assignor.)
E. and T. Fairbanks and Company. (See Jenkins, John L., assignor.)
E. W. Bliss Company. (See Flynn, John J., assignor.)
E. W. Bliss Company. (See Gabriel, Charles R., assignor.)
E. W. Bliss Company. (See Klocke, William, assignor.)
E. W. Bliss Company. (See Klocke and Dobson, assignors.)
E. W. Bliss Company. (See Klocke and Orton, assignors.)
E. W. Bliss Company. (See Leavitt, Frank M., assignor.)
E. W. Bliss Company. (See Maline, Joseph, assignor.)
E. W. Bliss Company. (See Orton, Frederick, assignor.)
Eacrett, Charles E., Malvern, Iowa. River disk plow. No. 982,709; Jan. 24; Sp. p. 5551; Gaz. vol. 162; p. 956.
Eagan, John, assignor of one-half to E. A. Connor, Lackawanna, N. Y. Car-door-locking device. No. 987,221; Mar. 21; Sp. p. 3088; Gaz. vol. 164; p. 560.
Eagen, James, Wyoming, Pa. Coal and rock drilling bit. No. 985,332; Feb. 28; Sp. p. 4492; Gaz. vol. 163; p. 808.
Eagle Glass & Manufacturing Company. (See Fusner, Jesse L., assignor.)
Eagle Lock Co. (See Murphy, James J., assignor.)
Eagle Lock Co. (See Roche, James, assignor.)
Eagle Manufacturing Company, The. (See Goodrich, Ralph B., assignor.)
Eagle Pencil Company. (See Bergquist, Edward, assignor.)
Eagle Pencil Company. (See Boman, Claes W., assignor.)
Eagle Pencil Company. (See Kaiser, Charles, assignor.)
Eagle, Robert O., Tallahassee, Fla. Syrup-skimmer. No. 996,472; June 27; Sp. p. 5231; Gaz. vol. 167; p. 917.
Eagleson, Daniel, East Granby, Conn. Tobacco-press. No. 1,002,975; Sept. 12; Sp. p. 1771; Gaz. vol. 170; p. 307.
Eagon, Harvey M., assignor to J. L. Sheets, New Comerstown, Ohio. Ironing-board. No. 987,448; Mar. 21; Sp. p. 3575; Gaz. vol. 164; p. 636.
Ealey, John W., Martinsville, Ind. Corn-popper. No. 998,681; July 25; Sp. p. 4530; Gaz. vol. 168; p. 826.
Eames, George M., Bridgeport, Conn. Explosive-engine for motor-vehicles. No. 981,251; Jan. 10; Sp. p. 2481; Gaz. vol. 162; p. 403.
Earhart, Roy R., *et al.* (See De Shon, Clarence, assignor.)
Earl, Jacob W., Los Angeles, Cal. Oscillating device for motor-vehicle wind-screens. No. 988,448; Apr. 4; Sp. p. 340; Gaz. vol. 165; p. 55.
Earl, John H., Chicago, Ill. Apparatus for dispensing beverages. No. 987,970; Mar. 28; Sp. p. 4744; Gaz. vol. 164; p. 846.
Earle, Charles W., Chicago, Ill., assignor to G. Cramer, St. Louis, Mo. Machine for printing and coating photographic postal cards. No. 992,345; May 16; Sp. p. 3280; Gaz. vol. 166; p. 591.
Earle, Henry, Denver, Colo. Ore-concentrator. No. 987,866; Mar. 28; Sp. p. 4454; Gaz. vol. 164; p. 809.
Earles, Hamilton T., Mount Morris, Pa. Nut-lock. No. 1,008,248; Nov. 7; Sp. p. 1296; Gaz. vol. 172; p. 212.
Earling, Albert J., Chicago, Ill. Railway-car. No. 1,013,001; Dec. 26; Sp. p. 5815; Gaz. vol. 173; p. 1017.
Early, E. N. (See Brewer, George W., assignor.)
Earn, Gustave E., New York, N. Y. Attachment for stamping-machines. No. 989,523; Apr. 11; Sp. p. 2607; Gaz. vol. 165; p. 440.
Earnheart, Isaac L., Kansas City, Kans., assignor of one-half to A. J. Alfes, Kansas City, Mo. Railway-crossing. No. 1,007,024; Oct. 24; Sp. p. 5420; Gaz. vol. 171; p. 951.
Earnshaw, John F., Anacostia, D. C. Ice-protector for refrigerators. No. 992,761; May 23; Sp. p. 4131; Gaz. vol. 166; p. 764.
Earnshaw Knitting Company. (See Fanta, Theodore, assignor.)
Easling, Newton P., Pekin, Ill. Egg-tester. No. 1,010,744; Dec. 5; Sp. p. 775; Gaz. vol. 173; p. 121.
Eason, Elbert A., Bowdon, Ga. Planter. No. 992,553; May 16; Sp. p. 3715; Gaz. vol. 166; p. 665.
East, Alva L., assignor of one-half to G. W. Mead, Dowagiac, Mich. Box. No. 1,000,243; Aug. 8; Sp. p. 2176; Gaz. vol. 169; p. 387.
East, Caleb M., assignor to Murphy Iron Works, Detroit, Mich. Traveling grate. No. 1,009,655; Nov. 21; Sp. p. 4482; Gaz. vol. 172; p. 772.
East, Charles M. (See Wright and East.)
East, James W., Raphine, Va. Motor. No. 987,707; Mar. 28; Sp. p. 4120; Gaz. vol. 164; p. 754.
East, James W., Mulberry, Fla. Dry bin and roaster. No. 1,005,945; Oct. 17; Sp. p. 3029; Gaz. vol. 171; p. 546.
East Jersey Match Company. (See San, Morris, assignor.)
East, John F., assignor to Farmers Manufacturing Company, Norfolk, Va. Barrel-making machine. No. 998,478; July 18; Sp. p. 4080; Gaz. vol. 168; p. 723.
East, Walter. (See Dobbs, East, and Howkins.)
East, Walter, Bournemouth, England, A. E. Dobbs, Castle Dobbs, near Carrickfergas, Ireland, and J. S. Howkins, Fulham, London, England. Thermostatic liquid-regulator. No. 1,011,041; Dec. 5; Sp. p. 1394; Gaz. vol. 173; p. 222.
Easterling, Robert H. and W. A., Augusta, Ga. Air-cooling machine. No. 989,586; Apr. 18; Sp. p. 2791; Gaz. vol. 165; p. 493.
Easterling, William A. (See Easterling, Robert H. and W. A.)
Eastern Flexible Conduit Company. (See Gilpin, Victor C., assignor.)
Eastern Machine Screw Company. (See Gates, William H., assignor.)
Eastes, William T., Gaston, Ind. Base-burning heating-stove. No. 984,200; Feb. 14; Sp. p. 2036; Gaz. vol. 163; p. 350.
Eastlund, Axel E., Portland, Oreg. Trousers-stretcher. No. 996,570; June 27; Sp. p. 5422; Gaz. vol. 167; p. 948.
Eastman, Albert N. (See Hopkins, Ezra F., assignor.)
Eastman, Benjamin B., Bay City, Mich. Bracket for window-washers and the like. No. 1,009,056; Nov. 21; Sp. p. 3195; Gaz. vol. 172; p. 566.
Eastman, Clyde J., Los Angeles, Cal. Cable-traction apparatus. No. 980,220; Jan. 3; Sp. p. 86; Gaz. vol. 162; p. 17.
Eastman, Frederick A., Rockford, Ill. Pencil-sharpener. No. 988,698; Apr. 4; Sp. p. 869; Gaz. vol. 165; p. 140.
Eastman, George N., Riverside, Cal., assignor, by mesne assignments, to E. C. Brown, Washington, D. C. Battery lamp-socket. No. 985,018; Feb. 21; Sp. p. 3775; Gaz. vol. 163; p. 666.
Eastman, Henry J., *et al.* (See Eastman, Tarleton B., assignor.)
Eastman Kodak Co. (See Barnes, Frederick W., assignor.)
Eastman Kodak Co. (See Clarke, Joseph T., assignor.)
Eastman Kodak Company. (See Fifield, Frederic A., assignor.)
Eastman Kodak Company. (See Folmer, William F., assignor.)
Eastman Kodak Company. (See Hutchings, Charles E., assignor.)
Eastman Kodak Company. (See Kroedel, Robert, assignor.)
Eastman Machine Company, The. (See Barnard, Thomas, assignor.)
Eastman, Tarleton B., assignor of one-fourth to H. J. Eastman, one-fourth to F. M. Wright, and one-fourth to G. H. Mott, San Francisco, Cal. Dissolving-view machine. No. 1,003,094; Sept. 12; Sp. p. 2015; Gaz. vol. 170; p. 346.
Eastman, William E., Boston, Mass. Vehicle-spring. No. 1,002,830; Sept. 12; Sp. p. 1434; Gaz. vol. 170; p. 255.
Eastman, William E., Boston, Mass. Spring suspension for vehicles. No. 1,007,077; Oct. 31; Sp. p. 5558; Gaz. vol. 171; p. 1023.
Easton, James R., Marion, N. D. Cuspidor-tongs. No. 982,354; Jan. 24; Sp. p. 4819; Gaz. vol. 162; p. 834.
Eastwick, James. (See Chevallier and Eastwick.)
Eastwick, James, London, England. Automatic small-arm. No. 991,962; May 9; Sp. p. 2407; Gaz. vol. 166; p. 428.
Eastwood, Arthur C., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric switch. No. 980,221; Jan. 3; Sp. p. 89; Gaz. vol. 162; p. 17.
Eastwood, Arthur C., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric controller. No. 981,847; Jan. 17; Sp. p. 3724; Gaz. vol. 162; p. 630.
Eastwood, Arthur C., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric controller. No. 981,848; Jan. 17; Sp. p. 3726; Gaz. vol. 162; p. 630.
Eastwood, Arthur C., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric controller. No. 997,280; July 11; Sp. p. 1439; Gaz. vol. 168; p. 265.
Eastwood, Arthur C., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Method of and means for controlling electric motors. No. 1,000,161; Aug. 8; Sp. p. 2001; Gaz. vol. 169; p. 359.
Eastwood, Arthur C., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Solenoid with shunt. No. 1,004,860; Oct. 3; Sp. p. 679; Gaz. vol. 171; p. 111.
Eastwood, Arthur C., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric controller. No. 1,008,454; Nov. 14; Sp. p. 1889; Gaz. vol. 172; p. 323.
Eastwood, Arthur C., and J. F. Schnabel, assignors to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Control system for electric motors. No. 984,651; Feb. 21; Sp. p. 3047; Gaz. vol. 163; p. 540.
Eastwood, Arthur C., and H. F. Stratton, assignors to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Control system for electric motors. No. 1,008,453; Nov. 14; Sp. p. 1886; Gaz. vol. 172; p. 322.
Eaton, Albert L. (See Butler and Eaton.)
Eaton, George M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric railway-vehicle. No. 990,966; May 2; Sp. p. 297; Gaz. vol. 166; p. 51.
Eaton, George M., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric-railway vehicle. No. 993,589; May 30; Sp. p. 5922; Gaz. vol. 166; p. 1079.

Alphabetical list of patentees—Continued.

Eaton, Gordon R., Buffalo, N. Y. Friction transmission-gearing. No. 986,811; Mar. 14; Sp. p. 2240; Gaz. vol. 164; p. 388.
Eaton, Harrison H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Press. No. 1,004,757; Oct. 3; Sp. p. 450; Gaz. vol. 171; p. 75.
Eaton, Hugh H. (See Sheppe, Eaton, and Allen.)
Eaton, Levi F., Detroit, Mich. Blackleading-machine. No. 1,003,441; Sept. 19; Sp. p. 2731; Gaz. vol. 170; p. 501.
Eaton, Richard M., Niagara Falls, N. Y. Portable-lamp apparatus. No. 994,094; May 30; Sp. p. 6976; Gaz. vol. 166; p. 1251.
Eaton, Robert, Lake City, Minn. Variable cut-off. No. 983,222; Jan. 31; Sp. p. 6647; Gaz. vol. 162; p. 1156.
Eaton, Warren V., Kansas City, Mo. Collar. No. 987,971; Mar. 28; Sp. p. 4745; Gaz. vol. 164; p. 846.
Eaton, William G. (See MacFarland and Eaton.)
Eaton, William S. (See Green and Eaton.)
Eavenson, Howard N., F. D. Buffum, and J. E. Flexner, Gary, assignors to United States Coal & Coke Company, Welch, W. Va. Mining-machine. No. 1,011,928; Dec. 19; Sp. p. 3446; Gaz. vol. 173; p. 604.
Eaves, Benjamin F. (See Morris and Eaves.)
Ebbert, Daniel F., Wheeling, W. Va. Lock for automobile-hoods. No. 1,004,154; Sept. 26; Sp. p. 4382; Gaz. vol. 170; p. 776.
Ebbert, Daniel F., Wheeling, W. Va. Magneto-guard. No. 1,004,758; Oct. 3; Sp. p. 458; Gaz. vol. 171; p. 75.
Ebbinghaus, Ernst, New York, N. Y. Aeroplane. No. 1,000,592; Aug. 15; Sp. p. 2971; Gaz. vol. 169; p. 544.
Ebel, George H., St. Paul, Minn. Molding-machine. No. 999,970; Aug. 8; Sp. p. 1555; Gaz. vol. 169; p. 294.
Ebelhare, William H., Waltham, Mass., assignor to The Keystone Watch Case Company. Winding-indicator for watches. No. 992,118; May 9; Sp. p. 2713; Gaz. vol. 166; p. 480.
Ebeling, Charles W., Elm Grove, W. Va. Sand-blast apparatus. No. 984,753; Feb. 21; Sp. p. 3267; Gaz. vol. 163; p. 577.
Ebeling, Charles W., Elm Grove, W. Va. Enameling-table. No. 996,226; June 27; Sp. p. 4669; Gaz. vol. 167; p. 832.
Eber, Henry J., and C. T. Lentz, Newark, N. J. Lamp. No. 986,557; Mar. 14; Sp. p. 1707; Gaz. vol. 164; p. 302.
Eberbach, Oscar A., Ann Arbor, assignor of one-half to W. C. Klotz, Detroit, Mich. Water-softening compound. No. 1,001,935; Aug. 29; Sp. p. 5864; Gaz. vol. 169; p. 1065.
Eberhard, Otto R. von, Bredeney-on-the-Ruhr, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the Ruhr, Germany. Sighting device for guns. No. 988,760; Apr. 4; Sp. p. 1014; Gaz. vol. 165; p. 161.
Eberhardt, Henry E., Newark, N. J. Cutter-grinding machine. No. 987,449; Mar. 21; Sp. p. 3577; Gaz. vol. 164; p. 637.
Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Slip-cover sheet-metal box. No. 984,548; Feb. 21; Sp. p. 2826; Gaz. vol. 163; p. 504.
Eberhart, Felix, assignor to American Can Company, New York, N. Y. Feed mechanism for metal or other sheets. No. 1,003,998; Sept. 26; Sp. p. 3980; Gaz. vol. 170; p. 720.
Eberle, Gustav, Stuttgart, Germany. Process and product for use in unliming hides and the like. No. 1,006,539; Oct. 24; Sp. p. 4387; Gaz. vol. 171; p. 784.
Eberle, Herman J., St. Louis, Mo. Concrete-column mold. No. 982,769; Jan. 24; Sp. p. 5685; Gaz. vol. 162; p. 975.
Eberle, John A., assignor to The Perfection Manufacturing Company, St. Louis, Mo. Grass-catcher. No. 991,773; May 9; Sp. p. 2018; Gaz. vol. 166; p. 363.
Eberle, John A., assignor to The Perfection Manufacturing Company, St. Louis, Mo. Grass-catcher. No. 995,231; June 13; Sp. p. 2456; Gaz. vol. 167; p. 425.
Eberle, John A., assignor to The Perfection Manufacturing Company, St. Louis, Mo. Grass-catcher. No. 1,002,660; Sept. 5; Sp. p. 1059; Gaz. vol. 170; p. 158.
Eberle, Karl, Friedenau, near Berlin, Germany. Mixing device for gas-burners. No. 1,000,385; Aug. 15; Sp. p. 2500; Gaz. vol. 169; p. 468.
Eberlein, Heinrich, Meissen, Germany. Making metallic cores for concrete bodies. No. 982,485; Jan. 24; Sp. p. 5109; Gaz. vol. 162; p. 881.
Eberman, Albert S., and E. Harlan, Baltimore, Md. Name-plate. No. 999,438; Aug. 1; Sp. p. 485; Gaz. vol. 169; p. 85.
Eberman, Theodore, Denver, Colo. Family coal-box. No. 988,932; Apr. 4; Sp. p. 1339; Gaz. vol. 165; p. 215.
Ebersole, Cyrus P., Keokuk, Iowa, assignor, by mesne assignments, to American Automotoneer Company, Philadelphia, Pa. Controller-regulator. No. 980,865; Jan. 3; Sp. p. 1473; Gaz. vol. 162; p. 236.
Ebersole, Cyrus P., Keokuk, Iowa, assignor, by mesne assignments, to American Automotoneer Company, Philadelphia, Pa. Controller-regulator. No. 980,866; Jan. 3; Sp. p. 1476; Gaz. vol. 162; p. 236.
Ebersole, John H., Washington, D. C. Engine. No. 998,284; July 18; Sp. p. 3682; Gaz. vol. 168; p. 656.
Ebersole, Monroe. (See Baker, George W., assignor.)
Eberstaller, Christian, Roselle, N. J. Snow-melter. No. 994,579; June 6; Sp. p. 993; Gaz. vol. 167; p. 165.
Ebert, Frederick J. (See Bell and Ebert.)
Ebert, George H. (See Vanskike and Ebert.)
Ebrite, Lewis C., Mesquite, Tex. Lantern. No. 1,004,637; Oct. 3; Sp. p. 189; Gaz. vol. 171; p. 33.
Ecaubert, Frederic, New York, N. Y. Mixing and separating machine. No. 1,011,929; Dec. 19; Sp. p. 3453; Gaz. vol. 173; p. 604.
Eccleston, S Spencer, Syracuse, N. Y. Steam-cooker. No. 992,119; May 9; Sp. p. 2714; Gaz. vol. 166; p. 480.
Eck, Ragnvald, assignor of one-half to W. P. Crockett and one-half to The Eck Tool Company, Chicago, Ill. Pipe-cutter. No. 1,003,442; Sept. 19; Sp. p. 2734; Gaz. vol. 170; p. 501.
Eck Tool Company, The, *et al.* (See Eck, Ragnvald, assignor.)
Eckardt, Albin, San Francisco, Cal. Mold. No. 1,003,722; Sept. 19; Sp. p. 3358; Gaz. vol. 170; p. 600.
Eckardt, Moritz. (See Collett and Eckardt.)
Eckart, Edmund, New Rochelle, N. Y. Can. No. 983,883; Feb. 14; Sp. p. 1368; Gaz. vol. 163; p. 246.
Eckel, Edwin C., Washington, D. C. Obtaining potash from greensand. No. 1,011,172; Dec. 12; Sp. p. 1745; Gaz. vol. 173; p. 304.
Eckel, Edwin C., Washington, D. C. Producing metallic iron and alkaline salts. No. 1,011,173; Dec. 12; Sp. p. 1746; Gaz. vol. 173; p. 305.
Eckels, George M., assignor of one-fifth to F. E. Wilcox, one-fifth to H. C. Brown, and one-fifth to L. E. Hickok, Mechanicsburg, Pa. Gas-generator. No. 994,135; June 6; Sp. p. 65; Gaz. vol. 167; p. 13.
Ecker, Maurice, Worcester, Mass. Necktie and collar holder. No. 1,007,342; Oct. 31; Sp. p. 6133; Gaz. vol. 171; p. 1119.
Ecker, William. (See Ehrlich and Ecker.)
Eckersley, Arthur. (See Ogden, Norman, assignor.)
Eckerstrom, George E. (See Elliott and Eckerstrom.)
Eckford, William, Rhyl, assignor of one-half to Walkers, Parker & Co. Limited, London, England. Manufacture of red lead. No. 1,010,356; Nov. 28; Sp. p. 5926; Gaz. vol. 172; p. 1055.
Eckhard, John, Boston, Mass. Controlling device for automobiles. No. 982,177; Jan. 17; Sp. p. 4429; Gaz. vol. 162; p. 742.
Eckhard, John, Boston, Mass. Driving mechanism for motor-vehicles. No. 1,011,174; Dec. 12; Sp. p. 1748; Gaz. vol. 173; p. 305.
Eckland, Emil O., Keokuk, Iowa. Manufacturing starch, &c. No. 1,000,726; Aug. 15; Sp. p. 3258; Gaz. vol. 169; p. 589.
Eckles, Jacob, *et al.* (See Baublits, Don P., assignor.)
Eckley, Ralph, Los Angeles, Cal. Hydroplane. No. 999,971; Aug. 8; Sp. p. 1560; Gaz. vol. 169; p. 294.
Eckrode, Clement E., assignor to J. Ellwood Lee Company, Conshohocken, Pa. Pneumatic rubber tire. No. 999,157; July 25; Sp. p. 5573; Gaz. vol. 168; p. 991.
Eclipse Fuel Engineering Company. (See McKee, Garnet W., assignor.)
Eclipse Gas Stove Company. (See Green, Michael J., assignor.)
Economy Electric Company. (See Hertzberg and Wohl, assignors.)
Economy Electric Company. (See Hertzberg, Low, and Wohl, assignors.)
Economy Stove Company. (See Nieberding, Frank A., assignor.)
Economy Switch Box & Mfg. Company, The. (See Maison, Cyril C., assignor.)
Eddins, Sextus A., Charlottesville, Va., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Treating shoe-counters. No. 1,007,078; Oct. 31; Sp. p. 5560; Gaz. vol. 171; p. 1023.
Eddy, Alvin W., Ford River, Mich. Fish-cleaning machine. No. 981,075; Jan. 10; Sp. p. 2064; Gaz. vol. 162; p. 340.
Eddy, Burl. (See Heim, Adam, assignor.)
Eddy, Elbert B., Chicago, Ill., and W. R. Clark, Minneapolis, Minn. Hand-truck. No. 1,007,677; Nov. 7; Sp. p. 38; Gaz. vol. 172; p. 9.
Eddy, Gerald A., assignor of one-half to E. Belk, Los Angeles, Cal. Change-gear-operating mechanism. No. 1,002,503; Sept. 5; Sp. p. 721; Gaz. vol. 170; p. 106.
Eddy, Seth W., Lincoln, Nebr. Mirror. No. 1,001,581; Aug. 22; Sp. p. 5069; Gaz. vol. 169; p. 913.
Eddy, Thomas R., assignor to The C. E. Sheppard Co., New York, N. Y. Loose-leaf binder. No. 985,403; Feb. 28; Sp. p. 4640; Gaz. vol. 163; p. 831.
Eddy Valve Company. (See Knickerbacker, John, assignor.)
Eddystone Manufacturing Company, The. (See Anthony, Wendell P., assignor.)
Eddystone Manufacturing Company, The. (See Macadam, John, assignor.)
Eden, Harold W., Detroit, Mich. Cap-nut. No. 997,118; July 4; Sp. p. 1095; Gaz. vol. 168; p. 178.
Eden, Harold W., assignor to R. and S. J. Herman, Detroit, Mich. Razor-blade holder. No. 999,489; Aug. 1; Sp. p. 580; Gaz. vol. 169; p. 101.
Edens, Noah S., Highland, Cal. Wave and tide motor. No. 994,728; June 13; Sp. p. 1369; Gaz. vol. 167; p. 256.
Edey, Charles E. C., Tacoma, Wash. Lock. No. 1,007,649; Oct. 31; Sp. p. 6807; Gaz. vol. 171; p. 1223.

Alphabetical list of patentees—Continued.

Edfa Produce Company. (See Warr, George C., assignor.)
Edgar Allen American Manganese Steel Company. (See Mason, Volney W., Jr., assignor.)
Edgar Allen American Manganese Steel Company. (See McKee and Vilas, assignors.)
Edgar, Blanchard C. (See Clapp and Edgar.)
Edgar, Ellis F., Woodbridge, N. J. Steam-turbine. No. 980,503; Jan. 3; Sp. p. 712; Gaz. vol. 162; p. 114.
Edgar, Ellis F., Woodbridge, N. J. Steam-turbine. No. 980,504; Jan. 3; Sp. p. 714; Gaz. vol. 162; p. 115.
Edgar, George B., Sr., *et al.* (See Edgar, George B., Jr., assignor.)
Edgar, George B., Sr., Iola, Kans. Car-door fastener. No. 995,232; June 13; Sp. p. 2457; Gaz. vol. 167; p. 425.
Edgar, George B., Jr., Iola, Kans., assignor of one-tenth to M. J. Dunigan, one-tenth to L. F. Stewart, one-tenth to C. J. Beavin, one-tenth to L. B. Edgar, Colorado Springs, Colo., one-twentieth to L. Melvin, and one-twentieth to G. B. Edgar, Sr., Iola, Kans. Account-book. No. 981,543; Jan. 10; Sp. p. 3088; Gaz. vol. 162; p. 503.
Edgar, Lucien B., *et al.* (See Edgar, George B., Jr., assignor.)
Edgar, Malcolm W. (See Reck and Gibbon, assignors.)
Edgar, Pearl H., Lake View, Mo. Drinking-fountain. No. 1,009,656; Nov. 21; Sp. p. 4484; Gaz. vol. 172; p. 772.
Edgar, William K., Iola, Kans. Car-seal. No. 985,019; Feb. 21; Sp. p. 3776; Gaz. vol. 163; p. 666.
Edge, Walter S., New York, N. Y. Dam construction. No. 1,010,131; Nov. 28; Sp. p. 5474; Gaz. vol. 172; p. 981.
Edge, William, Newark, N. J., assignor to The General Package Company, New York, N. Y. Hinging-machine. No. 983,429; Feb. 7; Sp. p. 363; Gaz. vol. 163; p. 60.
Edgerly, Frank E., Leominster, Mass. Barrette-tongue connection. No. 994,068; May 30; Sp. p. 6918; Gaz. vol. 166; p. 1242.
Edgerton, Charles, Philadelphia, Pa. Spray-nozzle. No. 984,082; Feb. 14; Sp. p. 1815; Gaz. vol. 163; p. 312.
Edgerton, Charles, Philadelphia, Pa. Apparatus for extracting grease and oils. No. 991,491; May 9; Sp. p. 1419; Gaz. vol. 166; p. 267.
Edgerton, Edward E., Chicago, Ill. Electric-lamp cleaner. No. 1,007,853; Nov. 7; Sp. p. 485; Gaz. vol. 172; p. 72.
Edgerton, George L., Goldsboro, N. C. Sheet-fastener. No. 987,349; Mar. 21; Sp. p. 3359; Gaz. vol. 164; p. 603.
Edings, Julian B., Macon, Ga. Train-indicating apparatus. No. 996,069; June 27; Sp. p. 4297; Gaz. vol. 167; p. 780.
Edison Storage Battery Company. (See Edison, Thomas A., assignor.)
Edison Storage Battery Company. (See Ott, John F., assignor.)
Edison, Thomas A. (See Aiken, Edward L., assignor.)
Edison, Thomas A. (See Aylsworth, Jonas W., assignor.)
Edison, Thomas A. (See Dyer, Frank L., assignor.)
Edison, Thomas A. (See Dyer and Lewis, assignors.)
Edison, Thomas A. (See Gall, Adolph F., assignor.)
Edison, Thomas A. (See Gladstone, James W., assignor.)
Edison, Thomas A. (See Miller, Walter H., assignor.)
Edison, Thomas A. (See Weber, Peter, assignor.)
Edison, Thomas A. (See Wolke, Herman, assignor.)
Edison, Thomas A., Incorporated. (See Carter, Charles P., assignor.)
Edison, Thomas A., Incorporated. (See Edison, Thomas A., assignor.)
Edison, Thomas A., Llewellyn Park, Orange, N. J. Bucket conveyer. No. 991,433; May 2; Sp. p. 1292; Gaz. vol. 166; p. 216.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Device for feeding pulverulent material. No. 993,294; May 23; Sp. p. 5263; Gaz. vol. 166; p. 944.
Edison, Thomas A., Llewellyn Park, Orange, N. J. Rotary kiln. No. 995,070; June 27; Sp. p. 4300; Gaz. vol. 167; p. 780.
Edison, Thomas A., Llewellyn Park, West Orange, N. J. Crushing and separating fine materials. No. 1,002,504; Sept. 5; Sp. p. 725; Gaz. vol. 170; p. 106.
Edison, Thomas A., Llewellyn Park, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-reproducer. No. 996,625; July 4; Sp. p. 66; Gaz. vol. 168; p. 12.
Edison, Thomas A., Llewellyn Park, Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Storage battery and treating the same. No. 999,762; Aug. 8; Sp. p. 1128; Gaz. vol. 169; p. 223.
Edison, Thomas A., Llewellyn Park, assignor to Edison Storage Battery Company, West Orange, N. J. Storage battery. No. 1,012,828; Dec. 26; Sp. p. 5406; Gaz. vol. 173; p. 959.
Edison, Thomas A., Llewellyn Park, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Composition for sound-records and other objects. No. 1,002,505; Sept. 5; Sp. p. 729; Gaz. vol. 170; p. 107.
Edison, Thomas A., Llewellyn Park, Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Recording-telephone. No. 1,012,250; Dec. 19; Sp. p. 4172; Gaz. vol. 173; p. 716.
Edison, Thomas A., Llewellyn Park, assignor, by mesne assignments, to Motion Picture Patents Company, Jersey City, N. J. Kinetoscope. (Reissue.) No. 13,329; Dec. 5; Sp. p. 1625; Gaz. vol. 173; p. 258.
Edkin, Bert C., assignor to German Bronze Company, Erie, Pa. Casting thin strips of metal. No. 987,867; Mar. 28; Sp. p. 4456; Gaz. vol. 164; p. 809.
Edler, Lewis W. (See Donachy, Darwin H., assignor.)
Edlund, Fredrick, Lanse, Pa. Garment-hanger. No. 989,587; Apr. 18; Sp. p. 2792; Gaz. vol. 165; p. 494.
Edmond, Robert F., Winnipeg, Canada, and F. O. Norell, Duluth, Minn. Elevator. No. 1,010,879; Dec. 5; Sp. p. 1068; Gaz. vol. 173; p. 167.
Edmonds, Eugene A., U. S. Navy. Search-light projector. No. 993,971; May 30; Sp. p. 6718; Gaz. vol. 166; p. 1209.
Edmonds, Frank H. (See Graf, Christopher, assignor.)
Edmonds, Frank H., Washington, D. C. Marksman's spectacles. No. 1,003,889; Sept. 19; Sp. p. 3683; Gaz. vol. 170; p. 655.
Edmonds, Joseph E. J., Kalgoorlie, Western Australia, Australia. Automatic water-pipe cleaner. No. 1,006,187; Oct. 17; Sp. p. 3561; Gaz. vol. 171; p. 630.
Edmonds, Samuel O., New York, N. Y., assignor to A. B. Dick Company, Chicago, Ill. Stencil-duplicating apparatus. No. 1,001,826; Aug. 29; Sp. p. 5613; Gaz. vol. 169; p. 1029.
Edmonds, Samuel O., New York, N. Y., assignor to A. B. Dick Company, Chicago, Ill. Stencil-duplicating apparatus. No. 1,001,827; Aug. 29; Sp. p. 5616; Gaz. vol. 169; p. 1029.
Edmonds, Samuel O., New York, N. Y., assignor to A. B. Dick Company, Chicago, Ill. Printing-machine. No. 1,010,880; Dec. 5; Sp. p. 1070; Gaz. vol. 173; p. 168.
Edmondson, Nathan D. (See Morris and Edmondson.)
Edmonson, Wiley, Bicknell, Ind. Die. No. 988,866; Apr. 4; Sp. p. 1215; Gaz. vol. 165; p. 194.
Edmund, Charles E., Woodhull, Ill. Disappearing chair. No. 982,710; Jan. 24; Sp. p. 5552; Gaz. vol. 162; p. 956.
Edmunds & Jones Mfg. Co. (See Jones, William T., assignor.)
Edqvist, Olof F., Denver, Colo. Rotary gas-engine. No. 988,319; Apr. 4; Sp. p. 48; Gaz. vol. 165; p. 10.
Edsall, William H., Wallingford, Conn. Curtain-ring. No. 980,222; Jan. 3; Sp. p. 91; Gaz. vol. 162; p. 17.
Edsall, William H., Wallingford, Conn. Support for curtains. No. 996,227; June 27; Sp. p. 4671; Gaz. vol. 167; p. 832.
Edson, Curtis G., Rockford, Ill. Street-indicator. No. 1,006,188; Oct. 17; Sp. p. 3563; Gaz. vol. 171; p. 631.
Edward Kimpton Company. (See Weeks, Frank A., assignor.)
Edwards, Albert Y., assignor to The Foos Gas Engine Company, Springfield, Ohio. Explosive-engine. No. 993,664; May 30; Sp. p. 6100; Gaz. vol. 166; p. 1105.
Edwards, Albert Y., assignor to The Foos Gas Engine Company, Springfield, Ohio. Adjustable bearing for shafts. No. 1,001,003; Aug. 22; Sp. p. 3908; Gaz. vol. 169; p. 719.
Edwards, Alonzo L., assignor to Wheeling Stamping Company, Wheeling, W. Va. Lantern. No. 990,715; Apr. 25; Sp. p. 5290; Gaz. vol. 165; p. 912.
Edwards, Arthur R., Canton, county of Glamorgan, England. Non-refillable bottle or the like. No. 1,001,744; Aug. 29; Sp. p. 5436; Gaz. vol. 169; p. 1001.
Edwards, Arthur T., Oklahoma, Okla. Merchandise-display rack. No. 1,006,834; Oct. 24; Sp. p. 5034; Gaz. vol. 171; p. 888.
Edwards, Charles E., Everett, Wash. Propelling mechanism. No. 989,769; Apr. 18; Sp. p. 3163; Gaz. vol. 165; p. 556.
Edwards, Charles J., assignor of one-half to J. W. Phillips, Marshall, Mo. Mouse-trap. No. 982,486; Jan. 24; Sp. p. 5110; Gaz. vol. 162; p. 881.
Edwards, Clarence D., Vinton, Iowa. Wall-paper-display rack. No. 1,007,678; Nov. 7; Sp. p. 40; Gaz. vol. 172; p. 10.
Edwards & Company. (See Lungen, Adam, assignor.)
Edwards, Daniel W., assignor to Greenlee Bros. & Company, Rockford, Ill. Mortising-machine. No. 992,945; May 23; Sp. p. 4546; Gaz. vol. 166; p. 831.
Edwards, Daniel W., Rockford, Ill., assignor to Greenlee Bros. & Company. Wood-tap. No. 992,946; May 23; Sp. p. 4548; Gaz. vol. 166; p. 831.
Edwards, Edgar A., Cincinnati, Ohio, assignor, by mesne assignments, to Schroeder Headlight Company. Dynamo-electric machine. No. 996,571; June 27; Sp. p. 5424; Gaz. vol. 167; p. 948.
Edwards, Frank M., assignor to The Olive Tablet Company, Portsmouth, Ohio. Pill-machine. No. 988,082; Mar. 28; Sp. p. 4981; Gaz. vol. 164; p. 883.
Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Lubricator-valve for steam-chests. No. 981,544; Jan. 10; Sp. p. 3090; Gaz. vol. 162; p. 504.
Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Fluid-operated force-feed lubricator. No. 996,321; June 27; Sp. p. 4897; Gaz. vol. 167; p. 864.

Alphabetical list of patentees—Continued.

Edwards, Frank W., Logansport, Ind., assignor to The Chicago Lubricator Company, Chicago, Ill. Sight-feed attachment for lubricators. No. 1,009,290; Nov. 21; Sp. p. 3724; Gaz. vol. 172; p. 648.
Edwards, Harrison, Wampum, Pa. Tie-plate. No. 997,909; July 11; Sp. p. 2809; Gaz. vol. 168; p. 480.
Edwards, Henry L., and W. A. Perkins, Gainesville, Tex. Churn. No. 1,005,421; Oct. 10; Sp. p. 1854; Gaz. vol. 171; p. 328.
Edwards, Herbert A. (See Warren and Edwards.)
Edwards, John A., Birmingham, Ala. Swimming device. No. 994,136; June 6; Sp. p. 68; Gaz. vol. 167; p. 14.
Edwards, Joseph, Rochester, N. Y. Plant-protector. No. 984,363; Feb. 14; Sp. p. 2402; Gaz. vol. 163; p. 407.
Edwards, Joseph, Duncan, Okla. Cream-cone filler. No. 990,479; Apr. 25; Sp. p. 4732; Gaz. vol. 165; p. 832.
Edwards, Josiah P., Knightstown, Ind. Gas-engine starter. No. 999,763; Aug. 8; Sp. p. 1130; Gaz. vol. 169; p. 223.
Edwards, Louis. (See Gerlach and Edwards.)
Edwards, Marmaduke, Philadelphia, Pa. Street-sweeper. No. 998,080; July 18; Sp. p. 3210; Gaz. vol. 168; p. 582.
Edwards, Oliver M. (See Crist, William E., assignor.)
Edwards, Oliver M., Syracuse, N. Y. Securing flexible material to window-sashes. No. 997,256; July 4; Sp. p. 1379; Gaz. vol. 168; p. 226.
Edwards, Reubin W., Bullards, Ga. Combined tie-plate, brace, and guard-rail. No. 1,006,999; Oct. 24; Sp. p. 5377; Gaz. vol. 171; p. 943.
Edwards, Thomas, Washington, D. C. Apparatus for preparing food products. No. 988,258; Mar. 28; Sp. p. 5306; Gaz. vol. 164; p. 939.
Edwards, Thomas, Washington, D. C. Preparing food products. No. 1,001,375; Aug. 22; Sp. p. 4692; Gaz. vol. 169; p. 846.
Edwards, Thomas, Sebastopol, Victoria, Australia. Cooler for ores. No. 995,445; June 20; Sp. p. 2943; Gaz. vol. 167; p. 525.
Edwards, Thomas, Ballarat, Victoria, Australia. Ore-roasting furnace. No. 1,008,892; Nov. 14; Sp. p. 2819; Gaz. vol. 172; p. 475.
Edwards, Thomas H., West Pittston, Pa. Stove-lid or coal-hole cover. No. 996,322; June 27; Sp. p. 4899; Gaz. vol. 167; p. 865.
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Leading-spindle for rolling-mills. No. 994,069; May 30; Sp. p. 6918; Gaz. vol. 166; p. 1242.
Edwards, Victor E., Worcester, Mass., assignor to Morgan Construction Company. Weighing-scale. No. 997,444; July 11; Sp. p. 1758; Gaz. vol. 168; p. 319.
Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Rod-reel. No. 1,008,893; Nov. 14; Sp. p. 2825; Gaz. vol. 172; p. 475.
Edwards, William A., Pine Bluff, Ark. Dinner-pail. No. 985,020; Feb. 21; Sp. p. 3778; Gaz. vol. 163; p. 666.
Edwards, William D., Portland, Oreg. Internal-combustion engine. No. 996,626; July 4; Sp. p. 67; Gaz. vol. 168; p. 12.
Edwin Harrington, Son & Co. (See Martin, Albert W., assignor.)
Edwin Harrington, Son & Co. (See Scott, Robert F., assignor.)
Edwin B. Stimpson Company. (See Stimpson, Edwin B., assignor.)
Eells, Albert F., Rochester, N. Y. System in waterfall-power utilization. No. 1,002,241; Sept. 5; Sp. p. 123; Gaz. vol. 170; p. 15.
Eells, Henry B., New York, N. Y. Grate-bar. No. 997,119; July 4; Sp. p. 1095; Gaz. vol. 168; p. 178.
Efran, Emil, Brünn, Austria-Hungary. Device for adjusting nozzles. No. 980,223; Jan. 3; Sp. p. 92; Gaz. vol. 162; p. 18.
Efran, Emil, Brünn, Austria-Hungary. Feed-water cleaner and heater. No. 986,968; Mar. 14; Sp. p. 2553; Gaz. vol. 164; p. 442.
Egan, Charles E., Lafollette, Tenn., assignor to J. M. Schuster, Columbus, Ohio. Combined electric door-bell and fire-alarm. No. 1,011,175; Dec. 12; Sp. p. 1751; Gaz. vol. 173; p. 305.
Egan, Joseph, Spokane, Wash. Wrench. No. 1,003,999; Sept. 26; Sp. p. 3984; Gaz. vol. 170; p. 721.
Egan, Patrick W., West Chester, Pa. Gas-engine. No. 1,008,800; Nov. 14; Sp. p. 2650; Gaz. vol. 172; p. 444.
Egan, Thomas, Sr., Amsterdam, N. Y. Carding-machine. No. 988,320; Apr. 4; Sp. p. 54; Gaz. vol. 165; p. 11.
Egelhoff, Charles H., and J. M. Huckins, Columbus, Ohio. Shade-roller structure. No. 1,011,764; Dec. 12; Sp. p. 3061; Gaz. vol. 173; p. 512.
Eger, Albert, *et al.* (See Justh, Louis G., assignor.)
Egerton, Bayard C., assignor of one-half to C. F. Hutchinson, Baltimore, Md. Sheet-metal can. No. 1,000,727; Aug. 15; Sp. p. 3260; Gaz. vol. 169; p. 589.
Egerton, Ottie C., Belding Mich., assignor to Belding Brothers & Company. Machine for printing cylindric surfaces. No. 988,556; Apr. 4; Sp. p. 562; Gaz. vol. 165; p. 91.
Eggan, Ole P., Seattle, Wash. Flue-stopper. No. 999,723; Aug. 1; Sp. p. 1048; Gaz. vol. 169; p. 180.
Eggenhoffner, Roberto, Genoa, Italy. Magnesia cement. No. 1,000,386; Aug. 15; Sp. p. 2501; Gaz. vol. 169; p. 468.
Eggers, Ernest, assignor to The Colorado-Yule Marble Co., New York, N. Y. Stone-shaping machine. No. 997,764; July 11; Sp. p. 2462; Gaz. vol. 168; p. 430.
Eggert, Francis M., Lansing, Mich. Flying-machine. No. 996,627; July 4; Sp. p. 73; Gaz. vol. 168; p. 13.
Eghan, Setrak G., Ogden, Utah. Prescription-file. No. 987,122; Mar. 21; Sp. p. 2838; Gaz. vol. 164; p. 523.
Egli, Arnold, assignor to Vogtländische Maschinen-Fabrik (vormals J. C. & H. Dietrich) Akt.-Ges., Plauen, Germany. Machinery for manufacturing curved printing-plates. No. 998,081; July 18; Sp. p. 3211; Gaz. vol. 168; p. 582.
Egli, Edwin, St. Gallen, assignor to C. Koller-Alder, St. Gallen, Switzerland. Embroidery-cutting machine. No. 989,770; Apr. 18; Sp. p. 3165; Gaz. vol. 165; p. 556.
Egli, Olive F., *et al.* (See Reidner, Howard W., assignor.)
Egly, Georg, Treptow, near Berlin, assignor to Gebrueder Siemens & Co., Berlin, Germany. Electric radiatory stove. No. 994,447; June 6; Sp. p. 711; Gaz. vol. 167; p. 121.
Egly, Georg, Treptow, near Berlin, assignor to Gebrüder Siemens & Companie, Berlin, Germany. Arc-lamp electrode. No. 1,009,291; Nov. 21; Sp. p. 3727; Gaz. vol. 172; p. 649.
Egly, Georg, assignor to Gebr. Siemens & Co., Charlottenburg, Germany. Manufacture of solid fashioned bodies containing silicon carbid. No. 1,012,531; Dec. 19; Sp. p. 4722; Gaz. vol. 173; p. 811.
Egly, Georg, Treptow, near Berlin, assignor to Gebruder Siemens & Co., Herzberg, near Berlin, Germany. Electric radiator. No. 1,012,617; Dec. 26; Sp. p. 4920; Gaz. vol. 173; p. 886.
Egnér, Carl E., Stockholm, and J. G. Holmström, Saltsjö-Storängen, Sweden. Cooling device for telephone-transmitters. No. 989,588; Apr. 18; Sp. p. 2793; Gaz. vol. 165; p. 494.
Egnér, Carl E., Stockholm, and J. G. Holmström, Saltsjö-Storängen, Sweden. Cooling device for telephone-transmitters. No. 999,019; July 25; Sp. p. 5319; Gaz. vol. 168; p. 947.
Ehlert, Arthur H., Swift Current, Saskatchewan, Canada. Sliding window-blind. No. 997,120; July 4; Sp. p. 1099; Gaz. vol. 168; p. 178.
Ehman, Frank W., Silver Creek, Miss. Hay-press. No. 981,626; Jan. 17; Sp. p. 3265; Gaz. vol. 162; p. 554.
Ehmann, Jacob, Arlington, N. J. Bag-fastener. No. 1,001,936; Aug. 29; Sp. p. 5865; Gaz. vol. 169; p. 1066.
Ehrenfeld, Richard. (See Habermann and Ehrenfeld.)
Ehrenreich & Cie., A. (See Crell, Otto, assignor.)
Ehrhardt, Otto P. W., Seattle, Wash. Cabbage-corer. No. 1,002,242; Sept. 5; Sp. p. 124; Gaz. vol. 170; p. 15.
Ehrhart, Raymond N., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Jet-condenser. No. 1,009,657; Nov. 21; Sp. p. 4485; Gaz. vol. 172; p. 772.
Ehrhart, Thomas J., Sheepranch, Cal. Lifting-rig. No. 1,009,140; Nov. 21; Sp. p. 3357; Gaz. vol. 172; p. 594.
Ehrich, Adolph J. F., Helena, Mont. Scrotal truss. No. 1,011,418; Dec. 12; Sp. p. 2286; Gaz. vol. 173; p. 390.
Ehrick, Harry C., Bucyrus, Ohio. Clock. No. 982,804; Jan. 31; Sp. p. 5767; Gaz. vol. 162; p. 1016.
Ehrlich, Leo, St. Louis, Mo., assignor, by mesne assignments, to Cutler Mail Chute Company, Rochester, N. Y. Mail-chute. No. 985,985; Mar. 7; Sp. p. 505; Gaz. vol. 164; p. 80.
Ehrlich, Leo, St. Louis, Mo., assignor, by mesne assignments, to Cutler Mail Chute Company, Rochester, N. Y. Mail-chute. No. 988,961; Apr. 4; Sp. p. 1396; Gaz. vol. 165; p. 224.
Ehrlich, Morris, and W. Ecker, Newark, N. J. Portable mail-holder for letter-carriers' use. No. 1,004,392; Sept. 26; Sp. p. 4848; Gaz. vol. 170; p. 856.
Ehrlich, Paul, and A. Bertheim, Frankfort-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Derivative of oxyaryl-arsinic acids and making same. No. 986,148; Mar. 7; Sp. p. 812; Gaz. vol. 164; p. 132.
Ehrlich, Paul, and A. Bertheim, Frankfort-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Aminooxyarylarsenoxids and making same. No. 1,002,243; Sept. 5; Sp. p. 126; Gaz. vol. 170; p. 16.
Ehrlich, Paul, and L. Benda, Frankfort-on-the-Main, Germany, assignors to Cassella Color Company, New York, N. Y. 3.6-diaminoacridinium and its salts. No. 1,005,176; Oct. 10; Sp. p. 1292; Gaz. vol. 171; p. 240.
Ehrmann, Rudolf, Charlottenburg, assignor to Firm of J. A. Wülfing, Berlin, Germany. Digestive medicine. No. 1,003,347; Sept. 12; Sp. p. 2544; Gaz. vol. 170; p. 438.
Ehrsam, William J., *et al.*, trustees. (See Morscher, Lawrence N., assignor.)
Eichelberger, Floyde E. (See Bell, Joseph M., assignor.)
Eichelberger, William, and D. E. Hibner, assignors to The Vulcan Soot Cleaner Company of Pittsburg, Pa., Dubois, Pa. Boiler-flue cleaner. No. 987,450; Mar. 21; Sp. p. 3580; Gaz. vol. 164; p. 637.
Eichelkraut, Walter, Zehlendorf, near Berlin, Germany. Safety device for cash-desks. No. 1,008,125; Nov. 7; Sp. p. 1025; Gaz. vol. 172; p. 166.

Alphabetical list of patentees—Continued.

Eicher, Daniel, Brewster, Kans. Fish-plate. No. 989,491; Apr. 11; Sp. p. 2527; Gaz. vol. 165; p. 428.
Eicher, Joseph C. (See Detrick, Albaugh, Eicher, and Naugle.)
Eichhorn, Hermann. (See Diehl and Eichhorn.)
Eichhorn, Hermann, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Pitman. No. 998,758; July 25; Sp. p. 4719; Gaz. vol. 168; p. 854.
Eichhorn, Hermann, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Shuttle-carrier for sewing-machines. No. 1,005,177; Oct. 10; Sp. p. 1294; Gaz. vol. 171; p. 241.
Eichler, Emil, Buntenbock, near Klausthal, and O. Tielemann, Immemrode, Goslar, Germany. Drying apparatus for hay and similar material. No. 999,706; Aug. 1; Sp. p. 997; Gaz. vol. 169; p. 174.
Eichmann, Henry P. A. A., Corona, N. Y. Machine for soldering metal plates. No. 995,589; June 20; Sp. p. 3274; Gaz. vol. 167; p. 577.
Eichner, William, Walcott, Iowa. Sacking device. No. 1,009,899; Nov. 28; Sp. p. 4992; Gaz. vol. 172; p. 901.
Eichwede, Heinrich. (See Ernst and Eichwede.)
Eick, Otto, Baltimore, Md. Apparatus for handling bottles or like containers. No. 999,553; Aug. 1; Sp. p. 714; Gaz. vol. 169; p. 123.
Eick, Otto, Baltimore, Md. Pasteurizing apparatus. No. 1,001,517; Aug. 22; Sp. p. 4937; Gaz. vol. 169; p. 892.
Eicken, Hubert, Grevenbroich, Germany. Liquid-dyeing apparatus. No. 1,006,471; Oct. 24; Sp. p. 4207; Gaz. vol. 171; p. 758.
Eickmeyer, Albert T., Potlatch, Idaho. Rail-joint. No. 995,850; June 20; Sp. p. 3850; Gaz. vol. 167; p. 669.
Eidem, Torsten S., Hager City, Wis. Rotary cultivator. No. 1,008,708; Nov. 14; Sp. p. 2443; Gaz. vol. 172; p. 413.
Eiden, Leo F., Warren, Pa. Spigot. No. 980,224; Jan. 3; Sp. p. 94; Gaz. vol. 162; p. 18.
Eigen, Benno vom, Newark, N. J., assignor to Aug. Goertz & Co. Bag-frame and hinge connection therefor. No. 980,409; Jan. 3; Sp. p. 474; Gaz. vol. 162; p. 82.
Eigen, Benno vom, Newark, N. J., assignor to Aug. Goertz & Co. Loose-leaf binder. No. 997,608; July 11; Sp. p. 2089; Gaz. vol. 168; p. 373.
Eigen, Benno vom, Newark, N. J., assignor to Aug. Goertz & Co. Bag-frame. No. 1,005,178; Oct. 10; Sp. p. 1296; Gaz. vol. 171; p. 241.
Eijdman, Franciscus H., Ryswyk, Netherlands. Evaporating apparatus. No. 984,754; Feb. 21; Sp. p. 3270; Gaz. vol. 163; p. 577.
Eiker, Thaddeus B. (See Zisch, George J., assignor.)
Eiler, Frank L., Chicago, Ill. Nail-machine. No. 994,137; June 6; Sp. p. 69; Gaz. vol. 167; p. 14.
Eilers, Henry, Emerson, Ill. Hay-loader. No. 1,005,524; Oct. 10; Sp. p. 2074; Gaz. vol. 171; p. 365.
Eilers, Hio P. (See Smith, Robert J., assignor.)
Eilers, Hio P., New York, N. Y. Caster. No. 986,812; Mar. 14; Sp. p. 2244; Gaz. vol. 164; p. 389.
Eilertsen, Lucien, Paris, France. Preparing and coloring plastic substances used as bases in dental prosthesis. No. 987,451; Mar. 21; Sp. p. 3582; Gaz. vol. 164; p. 638.
Eils, Bette E. J., and L. Strebel, assignors to Globe Machine & Stopper Company, New York, N. Y. Bottle-cap feeder. No. 1,009,658; Nov. 21; Sp. p. 4487; Gaz. vol. 172; p. 773.
Eimerbrink, Charles H., Philadelphia, Pa. Registering mechanism. No. 1,009,959; Nov. 28; Sp. p. 5115; Gaz. vol. 172; p. 922.
Einfeldt, Emil, assignor, by mesne assignments, to G. W. and N. French and J. L. Hecht, Davenport, Iowa. Machine for making metal wheels. No. 982,259; Jan. 24; Sp. p. 4607; Gaz. vol. 162; p. 800.
Einfeldt, Emil, assignor, by mesne assignments, to G. W. and N. French and J. L. Hecht, Davenport, Iowa. Apparatus for machining ends of metal blanks. No. 993,158; May 23; Sp. p. 4990; Gaz. vol. 166; p. 902.
Eis, Julius O. (See Perry and Eis.)
Eiseman, Kaiser & Company. (See Kaiser, Joseph M., assignor.)
Eisen, Theodore A., Los Angeles, Cal. Building. No. 998,479; July 18; Sp. p. 4085; Gaz. vol. 168; p. 724.
Eisenbeis, Louis P., assignor of one-forth to J. B. Sax, Ottumwa, Iowa, and one-fourth to E. L. and H. A. Roth. Eyelet-manufacturing machine. No. 1,005,622; Oct. 10; Sp. p. 2321; Gaz. vol. 171; p. 400.
Eisenbise, Harry W., Reading, Pa. Fluid-controlling device. No. 1,006,189; Oct. 17; Sp. p. 3564; Gaz. vol. 171; p. 631.
Eisenhutten-Actien-Verein Düdelingen. (See Hoff, Hubert, assignor.)
Eisenmann, Charles P., Spencerville, Ohio. Watchmaker's peg-wood sharpener. No. 992,762; May 23; Sp. p. 4132; Gaz. vol. 166; p. 764.
Eisenmayer, A. J., *et al.* (See Hughes, Harry H., assignor.)
Eisenstein, Simon, Berlin, Germany. Wireless signaling system. No. 991,837; May 9; Sp. p. 2163; Gaz. vol. 166; p. 385.
Eisermann, Rudolf, assignor to Internationale Rotations-Maschinen Gesellschaft M. B. H., Berlin, Germany. Means for removing air from hydraulic transmission-gears. No. 985,986; Mar. 7; Sp. p. 508; Gaz. vol. 164; p. 80.
Eisermann, Rudolf, assignor to Internationale Rotations-Maschinen Gesellschaft M. B. H., Berlin, Germany. Piston-drum for rotary engines. No. 985,987; Mar. 7; Sp. p. 510; Gaz. vol. 164; p. 80.
Eitner, Berthold, Reinickendorf West, near Berlin, Germany. Ball-holding cage for ball-bearings. No. 980,932; Jan. 10; Sp. p. 1670; Gaz. vol. 162; p. 289.
Eitner, Berthold, Berlin, Germany. Making cages for antifriction-bearings. No. 1,002,244; Sept. 5; Sp. p. 127; Gaz. vol. 170; p. 16.
Eitner, Berthold, Berlin, Germany. Making cages for antifriction-bearings. No. 1,002,245; Sept. 5; Sp. p. 129; Gaz. vol. 170; p. 16.
Ek, Arvid, Portland, Me. Flexible plank. No. 1,004,861; Oct. 3; Sp. p. 680; Gaz. vol. 171; p. 111.
Ekberg, Arvid W., Jamestown, N. Y., assignor to E. N. Hyde, Chicago, Ill. Keeper for door-bolts. No. 997,257; July 4; Sp. p. 1383; Gaz. vol. 168; p. 227.
Ekeberg, Oscar, Conimicut, and E. O. Goordman, Providence, R. I. Shaft-coupling. No. 1,009,729; Nov. 28; Sp. p. 4648; Gaz. vol. 172; p. 844.
Ekehorn, Sven A., Gefle, Sweden. Center tube for centrifugal separators. No. 991,707; May 9; Sp. p. 1910; Gaz. vol. 166; p. 344.
Ekehorn, Sven A., Stockholm, Sweden. Milking-machine. No. 994,138; June 6; Sp. p. 71; Gaz. vol. 167; p. 14.
Ekelund, John A., assignor of one-half to J. F. Williamson, Minneapolis, Minn. Toy hen and chicken. No. 998,285; July 18; Sp. p. 3685; Gaz. vol. 168; p. 657.
Ekelund, John A., assignor of one-half to J. F. Williamson, Minneapolis, Minn. Toy kicking horse. No. 998,566; July 18; Sp. p. 4261; Gaz. vol. 168; p. 753.
Ekenberg, Martin, assignor to Techno-Chemical Laboratories Limited, London, England. Desiccating milk. No. 999,972; Aug. 8; Sp. p. 1561; Gaz. vol. 169; p. 294.
Ekenborg, William, Jr., Chicago, Ill. Safety corn-trimmer. No. 1,002,377; Sept. 5; Sp. p. 462; Gaz. vol. 170; p. 65.
Ekermeyer, William, assignor, by mesne assignments, of one-half to H. Doscher, Cincinnati, Ohio. Packing-receptacle. No. 1,008,963; Nov. 14; Sp. p. 2979; Gaz. vol. 172; p. 496.
Eklund, John, assignor to The St. Joseph Iron Works, St. Joseph, Mich. Basket-making machinery. No. 1,008,455; Nov. 14; Sp. p. 1890; Gaz. vol. 172; p. 323.
Eklund, John, and A. C. Gridley, St. Joseph, Mich. Knockdown berry-box. No. 999,764; Aug. 8; Sp. p. 1131; Gaz. vol. 169; p. 224.
Ekrem, Lars O., Calumet, Mich. Harrow. No. 998,480; July 18; Sp. p. 4088; Gaz. vol. 168; p. 724.
Ekstrom, Ernst G., Los Angeles, Cal. Electrolytic process of treating alkaline compounds. No. 1,003,041; Sept. 12; Sp. p. 1900; Gaz. vol. 170; p. 328.
Ekvall, Peter, New York, N. Y. Spirit-level. No. 982,260; Jan. 24; Sp. p. 4611; Gaz. vol. 162; p. 800.
Eland, William. (See Hanlon and Eland.)
Elbel, Karl, and E. Wray, assignors to Ralle & Company, Aktiengesellschaft, Biebrich, Germany. Vat-dyeing coloring-matter. No. 999,439; Aug. 1; Sp. p. 485; Gaz. vol. 169; p. 85.
Elder, Abraham F., Sawtelle, Cal. Trap. No. 995,233; June 13; Sp. p. 2459; Gaz. vol. 167; p. 425.
Elder, Alfred, Archie, and W. B. Moudy, Harrisonville, Mo. Chicken-perch. No. 999,636; Aug. 1; Sp. p. 864; Gaz. vol. 169; p. 151.
Elder, Benjamin W., San Antonio, Tex. Nutcracking-machine. No. 998,481; July 18; Sp. p. 4089; Gaz. vol. 168; p. 724.
Elder, Benjamin W., San Antonio, Tex. Nutcracking-machine. No. 998,482; July 18; Sp. p. 4091; Gaz. vol. 168; p. 725.
Elder, Edward H., Chicopee Falls, assignor to The National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,005,422; Oct. 10; Sp. p. 1859; Gaz. vol. 171; p. 329.
Elder, Edward H., Chicopee Falls, assignor to The National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,005,423; Oct. 10; Sp. p. 1863; Gaz. vol. 171; p. 329.
Elder, Edward H., Chicopee Falls, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,008,631; Nov. 14; Sp. p. 2270; Gaz. vol. 172; p. 386.
Elder, James M., Indianapolis, Ind. Engine-starter. No. 990,643; Apr. 25; Sp. p. 5095; Gaz. vol. 165; p. 888.
Elder, James W., Visalia, Cal. Black-oil burner. No. 987,617; Mar. 21; Sp. p. 3892; Gaz. vol. 164; p. 693.
Elder, Robert, and W. T. Krausch, La Grange, assignors to Fairbanks, Morse & Company, Chicago, Ill. Hoisting mechanism. No. 1,007,343; Oct. 31; Sp. p. 6134; Gaz. vol. 171; p. 1119.
Eldred, Franklin N., Webster, N. Y. Foot attachment for ladder-users. No. 991,774; May 9; Sp. p. 2019; Gaz. vol. 166; p. 363.

Alphabetical list of patentees—Continued.

Eldredge, Henry C., Cincinnati, Ohio. Bookbinder's end-sheet-tipping machine. No. 1,006,735; Oct. 24; Sp. p. 4780; Gaz. vol. 171; p. 851.
Eldredge, Sidney E., *et al.* (See Littlefield, Charles W., assignor.)
Eldridge, Charles C., and E. J. Beebe, Marshalltown, Iowa. Spark-plug. No. 1,011,595; Dec. 12; Sp. p. 2723; Gaz. vol. 173; p. 456.
Eldridge, Charles F., and L. W. Steckenrider, Herrin, Ill. Automatic switch. No. 994,729; June 13; Sp. p. 1372; Gaz. vol. 167; p. 256.
Eldridge, Edwin B. (See Gyer and Eldridge.)
Eldridge, Fred I., *et al.* (See Thompson and Netter, assignors.)
Eldridge, Hilliary. (See Rockey and Eldridge.)
Eldridge, J. B. (See Rowell, George B., assignor.)
Eldridge, John R., Hilham, Tenn. Handle for crosscut saws. No. 1,009,900; Nov. 28; Sp. p. 4993; Gaz. vol. 172; p. 902.
Eldridge, Washington, *et al.* (See Moore, Louis S., assignor.)
Electrelle Company. (See Smith, Irving B., assignor.)
Electric Boat Company. (See Bailey, Theodorus S., assignor.)
Electric Boat Company. (See Jaubert, George F., assignor.)
Electric Boat Company. (See Spear, Lawrence Y., assignor.)
Electric Cable Company, The. (See Seward, Thomas J., assignor.)
Electric Cleaner Company. (See Pittelkow, William, assignor.)
Electric Compositor Company. (See Bellows, Benjamin F., assignor.)
Electric Compositor Company. (See Le Boeuf, Arthur W., assignor.)
Electric Compositor Company. (See Petri-Palmedo, David, assignor.)
Electric Compressing Machine Company, The. (See Bazley, William H., assignor.)
Electric Controller and Manufacturing Company, The. (See Eastwood, Arthur C., assignor.)
Electric Controller and Manufacturing Company, The. (See Eastwood and Schnabel, assignors.)
Electric Controller and Manufacturing Company, The. (See Eastwood and Stratton, assignors.)
Electric Controller and Manufacturing Company, The. (See Fishback, Frederick R., assignor.)
Electric Controller and Manufacturing Company, The. (See Frost, Homer E., assignor.)
Electric Controller and Manufacturing Company, The. (See Hall, Jay H., assignor.)
Electric Controller and Manufacturing Company, The. (See Schnabel, James F., assignor.)
Electric Controller and Manufacturing Company, The. (See Stratton, Harry F., assignor.)
Electric Device Company. (See Ovington, Edward J., assignor.)
Electric Furnace Company, The. (See Baily, Thaddeus F., assignor.)
Electric Goods Manufacturing Company. (See Thomson, Henry C., assignor.)
Electric Heat Regulator Company. (See Kersteter, Joel C., assignor.)
Electric Hose and Rubber Company. (See Garretson, Cornelius D., assignor.)
Electric Railway Improvement Company, The. (See Cleveland, William B., assignor.)
Electric Railway Improvement Company, The. (See Herrick, Albert B., assignor.)
Electric-Railway Signal Company. (See Chapman, Winthrop M., assignor.)
Electric Renovator Manufacturing Co. (See Harker, Charles E., assignor.)
Electric Scenery Hoist Company, The. (See Wolf and Spilman, assignors.)
Electric Service Supplies Company, The. (See Bonine, Charles E., assignor.)
Electric Service Supplies Company. (See Peck, Frank C., assignor.)
Electric Storage Battery Company, The. (See Bijur, Joseph, assignor.)
Electric Storage Battery Company, The. (See Dodge, Norman, assignor.)
Electric Storage Battery Company, The. (See Flanders, Louis H., assignor.)
Electric Storage Battery Company, The. (See Madden, Albert F., assignor.)
Electric Storage Battery Company, The. (See Taylor, William, assignor.)
Electric Weighing Company. (See Messiter, Edwin H., assignor.)
Electrical Controller and Manufacturing Company, The. (See Eastwood, Arthur C., assignor.)
Electrical Manufacturing Company. (See Meter and Rideout, assignors.)
Electricitäts Actien Gesellschaft vorm. W. Lahmeyer & Co. (See Hertwig and Collischonn, assignors.)
Electro Dental Manufacturing Company. (See Schramm and Wilford, assignors.)
Electro-Dynamic Company. (See Bedell, Charles H., assignor.)
Electro Mechanical Works. (See Koltonski, Stanislaw A., assignor.)
Electro Metallurgical Company. (See Huffard, John B., assignor.)
Elektrochemische Werke (G. m. b. H.). (See Franke, Rudolf, assignor.)
Electrolytic Products Co. (See Feldkamp, Frederick A., assignor.)
Electromotor Equipment Company Limited. (See Barlow, Alfred J., assignor.)
Elers, Karl F., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Gear-wheel. No. 985,518; Feb. 28; Sp. p. 4928; Gaz. vol. 163; p. 873.
Elevator Supply & Repair Company. (See Graham, James M., assignor.)
Elevator Supply & Repair Company. (See Meyer, Barney, assignor.)
Eley, Charles V. A., and T. P. Brady, Birmingham, England. Miner's and the like electric safety-lamp. No. 988,321; Apr. 4; Sp. p. 56; Gaz. vol. 165; p. 12.
Elia, Giovanni E., London, England. Device for use in connection with naval warfare. No. 984,420; Feb. 14; Sp. p. 2508; Gaz. vol. 163; p. 425.
Elia, Giovanni E., London, England. Device for use in connection with naval warfare. No. 984,515; Feb. 14; Sp. p. 2723; Gaz. vol. 163; p. 456.
Elia, Giovanni E., Paris, France. Ship or vessel. No. 1,000,903; Aug. 15; Sp. p. 3625; Gaz. vol. 169; p. 651.
Elia, Giovanni E., Paris, France. Ship or vessel. No. 1,008,801; Nov. 14; Sp. p. 2651; Gaz. vol. 172; p. 444.
Elia, Giovanni E., Paris, France. Ship or vessel. No. 1,008,802; Nov. 14; Sp. p. 2652; Gaz. vol. 172; p. 445.
Elias Howe Company. (See Boraks, Joseph, assignor.)
Eliel, Albert L. (See Eliel, Oscar H. and A. L.)
Eliel, Oscar H., La Salle, Ill., and A. L. Eliel, assignors of one-third to L. E. Aubury, San Francisco, Cal. Apparatus for lifting liquids. No. 1,005,108; Oct. 3; Sp. p. 1144; Gaz. vol. 171; p. 193.
Elin, Godthfrey, Cambridge, Minn. Cloth measuring and indicating machine. No. 1,009,393; Nov. 21; Sp. p. 3969; Gaz. vol. 172; p. 686.
Elite Manufacturing Company, The. (See Burkholder, John H., assignor.) (Reissue.)
Elkan, Lee N. (See Bisceglia, Salvatore, assignor.)
Elkan, Lee N. (See Bisceglia and Elkan.)
Elkins, David H. (See Taylor and Elkins.)
Elkins, Thomas M., Duffau, Tex. Chimney-holder. No. 986,149; Mar. 7; Sp. p. 813; Gaz. vol. 164; p. 132.
Elkinton, William T. (See Wheeler, James A., assignor.)
Ellasser, Fred C. (See Mallory, Bonnie L., assignor.)
Elledge, Forrest M., St. Louis, Mo. Oyster-shipping pail. No. 1,001,128; Aug. 22; Sp. p. 4177; Gaz. vol. 169; p. 764.
Elledge, Raymond J., Los Angeles, Cal. Leather tire. No. 993,159; May 23; Sp. p. 4993; Gaz. vol. 166; p. 903.
Ellenberger, Ernst, Biebrich, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Treatment of gases for removing carbon monoxid therefrom and replacing it by hydrogen. No. 989,955; Apr. 18; Sp. p. 3571; Gaz. vol. 165; p. 619.
Ellett, Frederick S., Elmira, N. Y. Clutch. No. 982,042; Jan. 17; Sp. p. 4186; Gaz. vol. 162; p. 697.
Ellett, Luther S., Celina, Tex. Cultivator. No. 1,009,292; Nov. 21; Sp. p. 3728; Gaz. vol. 172; p. 649.
Ellett, William T., Chicago, Ill. Wagon-jack. No. 1,004,393; Sept. 26; Sp. p. 4850; Gaz. vol. 170; p. 856.
Ellick, Moses E. (See Lockwood, Alexander O., assignor.)
Elliott, Alexander. (See Morrison, Eston G., assignor.)
Elliott, Alexander, deceased, (M. L. Elliott, executrix,) and M. Shaen, Washington, D. C. Electrotype and making same. No. 994,705; June 6; Sp. p. 1282; Gaz. vol. 167; p. 209.
Elliott, Alvin D. (See Pope and Elliott.)
Elliott, Charles, Baltimore, Md. Gas-lighter for automobiles. No. 1,003,242; Sept. 12; Sp. p. 2331; Gaz. vol. 170; p. 400.
Elliott, Charles J., Oxnard, Cal. Guard for telephone and telegraph wires. No. 1,005,179; Oct. 10; Sp. p. 1299; Gaz. vol. 171; p. 242.
Elliott, Elbert M., Lincoln, Nebr. Concrete pole. No. 994,912; June 13; Sp. p. 1818; Gaz. vol. 167; p. 320.
Elliott-Fisher Company. (See Anderson, George S., assignor.)
Elliott-Fisher Company. (See Bolton, Herbert D., assignor.)
Elliott-Fisher Company. (See Dench, William L., assignor.)
Elliott-Fisher Company. (See Laganke, Charles F., assignor.)
Elliott-Fisher Company. (See Smith, John A., assignor.)
Elliott-Fisher Company. (See Watt, George F., assignor.)
Elliott-Fisher Company. (See Ziegler, Joram, assignor.)
Elliott, Frank, Chicago, Ill., assignor to Saginaw Gold and Platinum Dredging Company. Scraper. No. 987,798; Mar. 28; Sp. p. 4309; Gaz. vol. 164; p. 785.

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Elliott, Frank B., Kansas City, Mo. Rail-joint. No. 1,013,002; Dec. 26; Sp. p. 5816; Gaz. vol. 173; p. 1017.
Elliott, Fred L., and G. E. Eckerstrom, Chicago, Ill. Printer's lead and rule cutter. No. 1,000,789; Aug. 15; Sp. p. 3402; Gaz. vol. 169; p. 611.
Elliott, George C., assignor of one-half to C. J. Freygang, South Bellingham, Wash. Float-valve. No. 980,225; Jan. 3; Sp. p. 95; Gaz. vol. 162; p. 19.
Elliott, George H. (See Perkins and Elliott.)
Elliott, Harmon P., Newton, Mass. Address-plate. No. 1,000,501; Aug. 15; Sp. p. 2749; Gaz. vol. 169; p. 509.
Elliott, Howard, Washington, D. C. Attachment for smokers' pipes. No. 994,913; June 13; Sp. p. 1820; Gaz. vol. 167; p. 320.
Elliott, James W., and N. E. McQuitty, Danville, Ill. Rotary harrow. No. 1,000,387; Aug. 15; Sp. p. 2503; Gaz. vol. 169; p. 468.
Elliott, John P., Charlotte, N. C., and T. L. Carter, Greenville, S. C. Bedstead-display rack. No. 1,000,790; Aug. 15; Sp. p. 3405; Gaz. vol. 169; p. 611.
Elliott, Joseph A. (See Meyers and Elliott.)
Elliott, Mary L., executrix. (See Elliott and Shaen.)
Elliott, Richard C., London, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Pattern-controlled composing-machine. No. 980,933; Jan. 10; Sp. p. 1671; Gaz. vol. 162; p. 289.
Elliott, Richard C., Clapham, London, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Pattern or record-strip composing-machine. No. 989,589; Apr. 18; Sp. p. 2794; Gaz. vol. 165; p. 494.
Elliott, Robert G., Peoria, Ill. Flushing-tank. No. 986,150; Mar. 7; Sp. p. 814; Gaz. vol. 164; p. 132.
Elliott, Sterling, Newton, Mass. Liquid-hydrocarbon burner. No. 993,665; May 30; Sp. p. 6102; Gaz. vol. 166; p. 1105.
Elliott, Sterling, Newton, Mass. Fuel-controlling device for steam-boilers. No. 993,666; May 30; Sp. p. 6106; Gaz. vol. 166; p. 1106.
Elliott, Sterling, Newton, Mass. Flexible bed-strip for stencil-cutting machines. No. 996,228; June 27; Sp. p. 4672; Gaz. vol. 167; p. 833.
Elliott, Sterling, Newton, Mass. Flexible bed-strip for stencil-cutting machines. No. 996,229; June 27; Sp. p. 4673; Gaz. vol. 167; p. 833.
Elliott, Thomas H., assignor, by mesne assignments, to Selma Fruit Company, Inc., Selma, Cal. Fruit-seeder. No. 981,076; Jan. 10; Sp. p. 2067; Gaz. vol. 162; p. 340.
Elliott, William S., Pittsburg, Pa. Rotary motor. No. 983,033; Jan. 31; Sp. p. 6291; Gaz. vol. 162; p. 1093.
Elliott, William S., Pittsburg, Pa. Motor. No. 983,034; Jan. 31; Sp. p. 6292; Gaz. vol. 162; p. 1093.
Elliott, William S., Pittsburg, Pa., and F. M. Faber, Canton, Ohio; said Faber assignor to said Elliott. Turbine. No. 983,032; Jan. 31; Sp. p. 6286; Gaz. vol. 162; p. 1093.
Ellis, Albert H., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Adding-machine, &c. No. 996,402; June 27; Sp. p. 5072; Gaz. vol. 167; p. 893.
Ellis, Albert H., Brielle, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Combined type-writing and adding machine. No. 998,759; July 25; Sp. p. 4720; Gaz. vol. 168; p. 854.
Ellis, Amos, Philadelphia, Pa., assignor, by mesne assignments, of eleven-twelfths to Kelly Manufacturing Company. Machine for manufacturing high explosives. No. 1,003,243; Sept. 12; Sp. p. 2333; Gaz. vol. 170; p. 401.
Ellis, Carleton. (See Tait and Ellis.)
Ellis, Carleton, Montclair, N. J. Miscible oil. No. 993,827; May 30; Sp. p. 6455; Gaz. vol. 166; p. 1162.
Ellis, Carleton, Larchmont, N. Y. Soap for paint, varnish, &c. No. 1,000,966; Aug. 15; Sp. p. 3763; Gaz. vol. 169; p. 672.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis Foster Company. Dog-biscuit. No. 982,711; Jan. 24; Sp. p. 5554; Gaz. vol. 162; p. 956.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Preserved food product. No. 987,868; Mar. 28; Sp. p. 4457; Gaz. vol. 164; p. 810.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Cellulose-ester composition. No. 999,490; Aug. 1; Sp. p. 581; Gaz. vol. 169; p. 101.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Metal-polish. No. 999,491; Aug. 1; Sp. p. 582; Gaz. vol. 169; p. 102.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Apparatus for producing cement. No. 999,492; Aug. 1; Sp. p. 583; Gaz. vol. 169; p. 102.
Ellis, Carleton, Larchmont, N. Y., assignor to Ellis-Foster Company. Making cement. No. 1,001,582; Aug. 22; Sp. p. 5070; Gaz. vol. 169; p. 913.
Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover. No. 983,884; Feb. 14; Sp. p. 1369; Gaz. vol. 163; p. 246.
Ellis, Carleton, Larchmont, assignor to The Chadeloid Chemical Company, New York, N. Y. Paint and varnish remover. No. 985,404; Feb. 28; Sp. p. 4642; Gaz. vol. 163; p. 831.
Ellis, Carleton, Larchmont, N. Y., assignor to Chadeloid Chemical Company. Composition for erasing tracing-ink, &c. No. 997,910; July 11; Sp. p. 2810; Gaz. vol. 168; p. 480.
Ellis, Carleton, Larchmont, assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover. No. 1,000,388; Aug. 15; Sp. p. 2505; Gaz. vol. 169; p. 468.
Ellis, Carleton, Larchmont, N. Y., assignor to Ligno Chemical Company. Manufacture of oxalates. No. 1,001,937; Aug. 29; Sp. p. 5867; Gaz. vol. 169; p. 1066.
Ellis, Carleton, Larchmont, N. Y., assignor, by mesne assignments, to Copper Oil Products Company. Wood-coating composition. No. 1,005,623; Oct. 10; Sp. p. 2329; Gaz. vol. 171; p. 400.
Ellis, Carleton, White Plains, assignor to Chadeloid Chemical Company, New York, N. Y. Paint or varnish remover. No. 985,405; Feb. 28; Sp. p. 4643; Gaz. vol. 163; p. 832.
Ellis, Carleton, White Plains, assignor to Chadeloid Chemical Company, New York, N. Y. Paint and varnish remover. No. 994,139; June 6; Sp. p. 72; Gaz. vol. 167; p. 14.
Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover. No. 985,406; Feb. 28; Sp. p. 4644; Gaz. vol. 163; p. 832.
Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Finish-remover. No. 1,000,162; Aug. 8; Sp. p. 2005; Gaz. vol. 169; p. 359.
Ellis, Carleton, Montclair, N. J., assignor to Copper Oil Products Company. Wood-preserving composition. No. 991,434; May 2; Sp. p. 1293; Gaz. vol. 166; p. 216.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Coating concrete. No. 999,493; Aug. 1; Sp. p. 588; Gaz. vol. 169; p. 102.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Treating earthy materials. No. 999,494; Aug. 1; Sp. p. 590; Gaz. vol. 169; p. 102.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Desiccating milk. No. 999,707; Aug. 1; Sp. p. 998; Gaz. vol. 169; p. 174.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Waterproofing-coating composition for concrete, &c. No. 999,708; Aug. 1; Sp. p. 1002; Gaz. vol. 169; p. 175.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Continuous process of making white lead and apparatus therefor. No. 1,002,246; Sept. 5; Sp. p. 130; Gaz. vol. 170; p. 16.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Agricultural spray composition. No. 1,002,247; Sept. 5; Sp. p. 133; Gaz. vol. 170; p. 17.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Inoculated humus and making same. No. 1,002,248; Sept. 5; Sp. p. 138; Gaz. vol. 170; p. 17.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Electrical oxidation of nitrogen. No. 1,002,249; Sept. 5; Sp. p. 142; Gaz. vol. 170; p. 17.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Seasoning material and making same. No. 1,002,506; Sept. 5; Sp. p. 730; Gaz. vol. 170; p. 107.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Insectifugal tape. No. 1,005,180; Oct. 10; Sp. p. 1300; Gaz. vol. 171; p. 242.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Concrete and stucco paint oil. No. 1,005,818; Oct. 17; Sp. p. 2726; Gaz. vol. 171; p. 499.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Solidified oil. No. 1,006,736; Oct. 24; Sp. p. 4784; Gaz. vol. 171; p. 851.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Composition for priming and coating concrete. No. 1,006,737; Oct. 24; Sp. p. 4786; Gaz. vol. 171; p. 851.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Making soap powder. No. 1,007,680; Nov. 7; Sp. p. 43; Gaz. vol. 172; p. 10.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Composition for sizing paper, &c. No. 1,007,681; Nov. 7; Sp. p. 45; Gaz. vol. 172; p. 10.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Agricultural spray and making same. No. 1,007,682; Nov. 7; Sp. p. 48; Gaz. vol. 172; p. 11.
Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Forming oxids of nitrogen. No. 1,007,683; Nov. 7; Sp. p. 50; Gaz. vol. 172; p. 11.
Ellis, Carleton, Larchmont, and N. L. Foster, New Rochelle, N. Y., assignors to Ellis-Foster Company. Multi-container-bottle. No. 1,007,679; Nov. 7; Sp. p. 41; Gaz. vol. 172; p. 10.
Ellis, Charles R., Stockton, Cal. Safety starting-crank for explosive-motors. No. 1,007,775; Nov. 7; Sp. p. 273; Gaz. vol. 172; p. 44.
Ellis, Charles S., Chicago, Ill., assignor to Ellis Time Stamp Company. Time-stamp. No. 982,203; Jan. 17; Sp. p. 4475; Gaz. vol. 162; p. 751.
Ellis, Christopher H., Brixton, assignor of one-half to E. H. Heinke, London, England. Engine. No. 995,423; June 13; Sp. p. 2888; Gaz. vol. 167; p. 490.
Ellis, Edward H., Somerville, assignor, by mesne assignments, to E. H. Ellis and A. D. Chandler, Brookline, Mass., trustees. Fuel-briquet and making same. No. 990,348; Apr. 25; Sp. p. 4437; Gaz. vol. 165; p. 785.

Alphabetical list of patentees—Continued.

Ellis, Edward H., Somerville, assignor, by mesne assignments, to said Edward H. Ellis, and A. D. Chandler, Brookline, Mass., trustees of Ellis Briquet Binder. Fuel-briquet and making same. No. 1,009,960; Nov. 28; Sp. p. 5119; Gaz. vol. 172; p. 922.
Ellis, Edward H., Somerville, assignor, by mesne assignments, to said Edward H. Ellis, and A. D. Chandler, Brookline, Mass., trustees of Ellis Briquet Binder. Fuel-briquet and making same. No. 1,009,961; Nov. 28; Sp. p. 5120; Gaz. vol. 172; p. 923.
Ellis, Ferrand F. (See Allen and Ellis.)
Ellis-Foster Company. (See Ellis, Carleton, assignor.)
Ellis-Foster Company. (See Ellis and Foster, assignors.)
Ellis, Frank B., and J. L. Walker, Wharton, Tex. Portable heater. No. 986,272; Mar. 7; Sp. p. 1078; Gaz. vol. 164; p. 173.
Ellis, Frank H., Somerville, Mass., assignor to Barbour-Stockwell Company. Locking mechanism for railway-switches. No. 1,008,590; Nov. 14; Sp. p. 2182; Gaz. vol. 172; p. 372.
Ellis, Frank I., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Rolling-mill. No. 997,765; July 11; Sp. p. 2464; Gaz. vol. 168; p. 430.
Ellis, Frank I., and E. J. McIlvried, assignors to United Engineering & Foundry Company, Pittsburg, Pa. Forging-press. No. 1,002,571; Sept. 5; Sp. p. 874; Gaz. vol. 170; p. 129.
Ellis, Henry R., Salt Lake City, Utah. Resilient wheel. No. 980,226; Jan. 3; Sp. p. 96; Gaz. vol. 162; p. 19.
Ellis, Jacob D., Castle Rock, Colo. Railway-tie. No. 994,827; June 13; Sp. p. 1614; Gaz. vol. 167; p. 291.
Ellis, John, assignor to The Ellis Rail Coupling and Chair Co., Culpeper, Va. Combined rail coupling and chair. No. 999,103; July 25; Sp. p. 5479; Gaz. vol. 168; p. 975.
Ellis, John W., Portland, Me., assignor to L. H. Nelson Company. Folding candle-lamp. No. 983,987; Feb. 14; Sp. p. 1609; Gaz. vol. 163; p. 278.
Ellis, John W., Portland, Me., assignor to L. H. Nelson Company. Collapsible clock-case. No. 984,201; Feb. 14; Sp. p. 2039; Gaz. vol. 163; p. 351.
Ellis, Joseph G., Denison, Tex. Closet-seat. No. 998,483; July 18; Sp. p. 4093; Gaz. vol. 168; p. 725.
Ellis Lacer Company. (See Ellis, Warren E., assignor.)
Ellis, Mark S., U. S. Navy, assignor to Self Scoring Target Company. Self-registering target. No. 1,005,008; Oct. 3; Sp. p. 963; Gaz. vol. 171; p. 160.
Ellis Rail Coupling and Chair Co., The. (See Ellis, John, assignor.)
Ellis, Richard R., Detroit, Mich. Tube construction. No. 988,083; Mar. 28; Sp. p. 4982; Gaz. vol. 164; p. 883.
Ellis Time Stamp Company. (See Ellis, Charles S., assignor.)
Ellis, Warren E., assignor to Ellis Lacer Company, Haverhill, Mass. Fastener for shoe-uppers. No. 988,322; Apr. 4; Sp. p. 59; Gaz. vol. 165; p. 12.
Ellis, Warren E., Haverhill, Mass., assignor to Ellis Lacer Company. Means for tying shoe-uppers. No. 990,242; Apr. 25; Sp. p. 4198; Gaz. vol. 165; p. 748.
Ellis, Warren E., assignor to Ellis Lacer Company, Haverhill, Mass. Fastener for shoe-uppers. No. 999,765; Aug. 8; Sp. p. 1133; Gaz. vol. 169; p. 224.
Ellis, Wesley, Harrod, Ohio. Belt-guide. No. 1,007,650; Oct. 31; Sp. p. 6810; Gaz. vol. 171; p. 1223.
Ellis, William V., assignor to J. C. Blair Specialty Company, Huntingdon, Pa. Dumping or unpacking truck. No. 1,000,163; Aug. 8; Sp. p. 2007; Gaz. vol. 169; p. 359.
Ellis, Wynn E., Chicago, Ill. Drying grain. No. 1,001,259; Aug. 22; Sp. p. 4424; Gaz. vol. 169; p. 804.
Ellison, Horace, Boston, Mass. Whistle. No. 992,487; May 16; Sp. p. 3569; Gaz. vol. 166; p. 640.
Ellison, John D., Rives, assignor of one-half to E. B. Chester, Brownsville, Tenn. Automatic vehicle-brake. No. 1,003,174; Sept. 12; Sp. p. 2183; Gaz. vol. 170; p. 374.
Ellison, Vernor L., Shawnee, Okla. Pneumatic water-elevator. No. 997,661; July 11; Sp. p. 2221; Gaz. vol. 168; p. 392.
Ellsworth, Edward C. R., Toledo, Ohio. Stool. No. 998,881; July 25; Sp. p. 5006; Gaz. vol. 168; p. 898.
Ellwanger, William D. (See Selden, Arthur R., assignor.)
Elizey, Henry H., New Orleans, La. Elevated monorail construction. No. 1,004,759; Oct. 3; Sp. p. 460; Gaz. vol. 171; p. 76.
Elmendorf, Bernhard. (See Gabler, Johannes, assignor.)
Elmer, James P., St. Paul, Minn. Car-heater. No. 997,978; July 18; Sp. p. 2971; Gaz. vol. 168; p. 545.
Elmer, James P., St. Paul, Minn. Insulated car. No. 1,002,572; Sept. 5; Sp. p. 877; Gaz. vol. 170; p. 129.
Elmer, William, Jr., Pittsburg, Pa. Sash-balancing construction. No. 982,487; Jan. 24; Sp. p. 5111; Gaz. vol. 162; p. 882.
Elmer, William, Jr., Pittsburg, Pa. Window construction. No. 982,580; Jan. 24; Sp. p. 5294; Gaz. vol. 162; p. 912.
Elmore, Charles G., Jackson, Mich. Machine for making tile and the like. No. 986,448; Mar. 14; Sp. p. 1462; Gaz. vol. 164; p. 264.
Elmore, Guy H., Swarthmore, Pa. Jig. No. 997,609; July 11; Sp. p. 2093; Gaz. vol. 168; p. 373.
Eloesser, Arthur, San Francisco, Cal. Overalls. No. 986,273; Mar. 7; Sp. p. 1080; Gaz. vol. 164; p. 173.
Elphinstone, George K. B. (See Wimperis, Harry E., assignor.)
Elsas, Edward J., Kansas City, Mo. Aerodrome. No. 992,410; May 16; Sp. p. 3411; Gaz. vol. 166; p. 614.
Elsas, Edward J., Blue Mound, Mo. Bit-holder. No. 1,001,376; Aug. 22; Sp. p. 4693; Gaz. vol. 169; p. 846.
Elsass, Charles E. (See Probst and Elsass.)
Elsass, John L. (See Probst and Elsass.)
Elsässer, Emil, Langerfeld, Germany. Treatment of wool. No. 1,008,249; Nov. 7; Sp. p. 1297; Gaz. vol. 172; p. 212.
Elsbeery, A. D. (See Burke, Elbert S., assignor.)
Elsey, Prestley C., Quincy, Ill. Water-heater. No. 993,063; June 13; Sp. p. 2140; Gaz. vol. 167; p. 371.
Elshoff, Henry F., Norwood, Ohio, assignor to Allis-Chalmers Company. Speed-limiting device. No. 1,002,831; Sept. 12; Sp. p. 1436; Gaz. vol. 170; p. 256.
Elsner, Wilhelm, and O. Meyer, Hanover, Germany. Purifying rubber or gutta-percha. No. 1,003,244; Sept. 12; Sp. p. 2337; Gaz. vol. 170; p. 401.
Elsom, Samuel M. (See Elsom, William M. and S. M.)
Elsom, William M. and S. M., Santa Cruz, Cal. Bicycle-leader. No. 1,002,507; Sept. 5; Sp. p. 731; Gaz. vol. 170; p. 107.
Elson, Herman I., Jeffersonville, Ind. Shoe-counter protector. No. 996,914; July 4; Sp. p. 655; Gaz. vol. 168; p. 107.
Elston, Thomas J., Bedford, Ind. Chicken-coop. No. 985,333; Feb. 28; Sp. p. 4493; Gaz. vol. 163; p. 809.
Elstroth, Frank W. S., New York, N. Y. Door-hanger. No. 990,243; Apr. 25; Sp. p. 4200; Gaz. vol. 165; p. 749.
Elstun, George S. (See Wilbur, Belden H. G., assignor.)
Elting, Stewart O., Dodge, Ga. Candle and shade holder. No. 983,126; Jan. 31; Sp. p. 6467; Gaz. vol. 162; p. 1124.
Elton, Edmund H., and R. Stephens, Clevedon, England. Gas lighting and extinguishing apparatus. No. 994,140; June 6; Sp. p. 73; Gaz. vol. 167; p. 15.
Elvin, Albert G., East Orange, N. J. Door-operating mechanism for dumping-cars. No. 987,222; Mar. 21; Sp. p. 3090; Gaz. vol. 164; p. 560.
Elvin, Albert G., East Orange, N. J. Door-operating mechanism for dumping-cars. No. 987,223; Mar. 21; Sp. p. 3094; Gaz. vol. 164; p. 561.
Elvin, Albert G., East Orange, N. J. Locomotive-grate shaker. No. 998,882; July 25; Sp. p. 5008; Gaz. vol. 168; p. 898.
Elvin, Albert G., East Orange, N. J. Jointed conduit. No. 998,883; July 25; Sp. p. 5011; Gaz. vol. 168; p. 899.
Elvin, Albert G., East Orange, N. J. Joint for metallic conduits. No. 998,884; July 25; Sp. p. 5014; Gaz. vol. 168; p. 900.
Elwell, Joseph C., *et al.* (See Dunavon, James H., assignor.)
Ely, Charles H., East Orange, N. J. Staff for folding umbrellas. No. 980,227; Jan. 3; Sp. p. 97; Gaz. vol. 162; p. 19.
Ely, James, Summit, N. J., assignor of one-half to J. B. Roache, Brooklyn, N. Y. Tube for condensers or other thermal interchangers and producing the same. No. 997,281; July 11; Sp. p. 1441; Gaz. vol. 168; p. 265.
Ely-Norris Safe Company. (See Casserly, Joseph E., assignor.)
Ely, Walter S., Flushing, N. Y. Revolving-door structure. No. 1,007,025; Oct. 24; Sp. p. 5422; Gaz. vol. 171; p. 951.
Ely, William. (See Danver, Andrew C., assignor.)
Ely, William S., Katy, Tex. Support for compasses. No. 1,008,803; Nov. 14; Sp. p. 2653; Gaz. vol. 172; p. 445.
Elyovszky, Mihalj, Erie, Pa. Safety elevator device. No. 986,371; Mar. 7; Sp. p. 1293; Gaz. vol. 164; p. 209.
Elyria Iron and Steel Company. (See Bentz, William T., assignor.)
Emanuel, Benjamin D., Anderson, Ind. Drum construction for scales. No. 1,012,343; Dec. 19; Sp. p. 4370; Gaz. vol. 173; p. 748.
Emanuel, Philip C., Bennettsville, S. C. Device for pulling pump-pipes. No. 988,761; Apr. 4; Sp. p. 1020; Gaz. vol. 165; p. 162.
Emanuel, Philip C., Bennettsville, S. C. Device for pulling pump-pipes. No. 988,762; Apr. 4; Sp. p. 1022; Gaz. vol. 165; p. 162.
Embleton, Albert E. (See Fisher and Embleton.)
Embury Manufacturing Company. (See Embury, William C., assignor.)
Embury Manufacturing Company. (See Hill, James H., assignor.)
Embury, William C., assignor to Embury Manufacturing Company, Rochester, N. Y. Lantern-globe lifter. No. 992,411; May 16; Sp. p. 3414; Gaz. vol. 166; p. 615.
Emel, John, Sr., Silverdale, Wash. Trap. No. 1,010,605; Dec. 5; Sp. p. 465; Gaz. vol. 173; p. 72.
Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)
Emerson Electric Manufacturing Company. (See Meston and Finch, assignors.)
Emerson Electric Mfg. Co. (See Schnaus, Charles J., assignor.)

Alphabetical list of patentees—Continued.

Emerson Fabric Company, The. (See Blackadar, Zebina S., assignor.)
Emerson, George H., St. Paul, Minn. Locomotive. No. 981,401; Jan. 10; Sp. p. 2807; Gaz. vol. 162; p. 454.
Emerson, George O., Wenonda, Va. Road-drag. No. 1,005,946; Oct. 17; Sp. p. 3031; Gaz. vol. 171; p. 546.
Emerson, Isaac E., Baltimore, Md. Knockdown couch. No. 995,234; June 13; Sp. p. 2461; Gaz. vol. 167; p. 426.
Emerson, Merton L., Braintree, Mass. Carrier. No. 985,988; Mar. 7; Sp. p. 511; Gaz. vol. 164; p. 81.
Emerson, O. B. (See Phillians, Edward, assignor.)
Emery, Albert H., Stamford, Conn. Disappearing gun-carriage. No. 1,012,618; Dec. 26; Sp. p. 4921; Gaz. vol. 173; p. 886.
Emery, Edwin A., St. Louis, Mo., assignor to The Emery Pneumatic Lubricator Company. Fluid-pressure brake device. No. 1,004,000; Sept. 26; Sp. p. 3984; Gaz. vol. 170; p. 721.
Emery, Plato G., Chicago, Ill. Transom-pivot. No. 1,004,560; Oct. 3; Sp. p. 26; Gaz. vol. 171; p. 6.
Emery Pneumatic Lubricator Company, The. (See Emery, Edwin A., assignor.)
Emery, Thomas K. (See Harris, Julius, assignor.)
Emley, James E., Middleport, Ohio. Tool-holder. No. 997,121; July 4; Sp. p. 1100; Gaz. vol. 168; p. 178.
Emmerich, Maurice H., La Salle, Ill. Adjustable screw-conveyer hanger. No. 1,002,378; Sept. 5; Sp. p. 463; Gaz. vol. 170; p. 65.
Emmerich, Wilhelm, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Red acid dyestuff of the triphenylmethane series and making same. No. 1,006,738; Oct. 24; Sp. p. 4789; Gaz. vol. 171; p. 851.
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Apparatus for utilizing solar heat. No. 980,505; Jan. 3; Sp. p. 715; Gaz. vol. 162; p. 115.
Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,006,637; Oct. 24; Sp. p. 4594; Gaz. vol. 171; p. 819.
Emmons, Charles, Everett, assignor of one-third to J. Sawbridge and one-third to G. S. Staly, North Yakima, Wash. Internal-combustion pumping-engine. No. 1,006,540; Oct. 24; Sp. p. 4389; Gaz. vol. 171; p. 784.
Emmons, Charles W., Detroit, Mich. Chair attachment. No. 1,003,245; Sept. 12; Sp. p. 2338; Gaz. vol. 170; p. 401.
Emmons, Harry. (See Staniszewski, Joseph, assignor.)
Emmons, Louis M., Richmond, Ind. Hair-drier. No. 1,000,164; Aug. 8; Sp. p. 2009; Gaz. vol. 169; p. 360.
Emmott, Robert, and T. Mercer, Entwistle, near Bolton, England; said Mercer assignor to said Emmott. Rotary beater. No. 982,942; Jan. 31; Sp. p. 6083; Gaz. vol. 162; p. 1062.
Emmrich, Otto R., West Bend, Wis. Barrel. No. 1,011,176; Dec. 12; Sp. p. 1752; Gaz. vol. 173; p. 305.
Emory, Arthur B., Canon City, Colo. Crushing-mill. No. 1,002,379; Sept. 5; Sp. p. 465; Gaz. vol. 170; p. 65.
Empfield, Thomas J., Des Moines, Iowa. Electric signal for railways. No. 1,001,828; Aug. 29; Sp. p. 5621; Gaz. vol. 169; p. 1030.
Empire Duplex Gin Company. (See Harriss, William H., assignor.)
Empire Duplex Gin Company. (See Kent, Frederick T., assignor.)
Empire Duplex Gin Company. (See Meurling, Ivar, assignor.)
Empire Last Works. (See Partridge, Charles F., assignor.)
Empire Last Works. (See Schelter, George G., assignor.)
Empire Rubber Manufacturing Company. (See Bonner, William T., assignor.)
Empire Tire Company, The. (See Thoman and Slamin, assignors.)
Empire Voting Machine Company. (See Cooper, Henry C. H., assignor.)
Empire Voting Machine Company. (See Dean, James H., assignor.)
Empire Voting Machine Company. (See Gillespie, Alfred J., assignor.)
Empire Voting Machine Company. (See Keiper, Frank, assignor.)
Empire Voting Machine Company. (See Lausterer, William J., assignor.)
Emrich, Alfred, Pforzheim, Germany. Manufacture of expansible finger and other small rings. No. 1,000,244; Aug. 8; Sp. p. 2177; Gaz. vol. 169; p. 388.
Emrich, Henry C., Washington, D. C. Hinge-adjusting device. No. 995,851; June 20; Sp. p. 3851; Gaz. vol. 167; p. 669.
Emrick, Frank C., assignor to L. J. Kadeski, St. Louis, Mo. High-pressure packless valve. No. 1,012,067; Dec. 19; Sp. p. 3767; Gaz. vol. 173; p. 653.
Emrick, Harry A., Casey, Ill. Railway-crossing. No 988,867; Apr. 4; Sp. p. 1216; Gaz. vol. 165; p. 194.
Emrick, William H., Portland, Oreg. Egg-case. No. 997,379; July 11; Sp. p. 1645; Gaz. vol. 168; p. 298.
Emura, Shotaro. (See Namekawa, Miyazawa, Miyabara, and Emura.)
En Earl, Darius C., Rollinsville, Colo. Stamp-mill screen. No. 1,008,804; Nov. 14; Sp. p. 2654; Gaz. vol. 172; p. 445.
Enbysk, Eli C., Pendleton, Oreg. Reins. No. 1,009,057; Nov. 21; Sp. 3196; Gaz. vol. 172; p. 566.
Enderes, Ernst, Littleport, Iowa. Pipe-wrench. No. 983,271; Feb. 7; Sp. p. 23; Gaz. vol. 163; p. 6.
Enderlin, Camille. (See Raclot and Enderlin.)
Enders, William, North Kaukauna, Wis. Swimmer's appliance. No. 1,004,394; Sept. 26; Sp. p. 4851; Gaz. vol. 170; p. 857.
Endinger, Henry, New York, N. Y. Puzzle game-board. No. 991,963; May 9; Sp. p. 2409; Gaz. vol. 166; p. 428.
Endriss, Charles A. (See Ponkey, Albert M., assignor.)
Endsley, Louis E. (See Van Horn and Endsley.)
Enebuske, Claës J., New York, N. Y. Compound of iodin and tannin. No. 993,295; May 23; Sp. p. 5265; Gaz. vol. 166; p. 945.
Eneix, Roy H., and R. W. E. Lowell, Anita, Iowa. Automobile lamp-controller. No. 998,760; July 25; Sp. p. 4725; Gaz. vol. 168; p. 855.
Enell, Otto E., Chicago, Ill., assignor to The Chadeloid Chemical Company, New York, N. Y. Paint and varnish remover. No. 985,407; Feb. 28; Sp. p. 4646; Gaz. vol. 163; p. 832.
Enequist, Erik W., Brooklyn, N. Y. Oil and pigment. No. 1,009,708; Nov. 21; Sp. p. 4582; Gaz. vol. 172; p. 790.
Engberg, Arvid L., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 1,007,079; Oct. 31; Sp. p. 5562; Gaz. vol. 171; p. 1023.
Engberg, Ephraim O., Salt Lake City, Utah, assignor to J. B. Patton, Kent, Ohio. Window-shade machine. No. 984,127; Feb. 14; Sp. p. 1894; Gaz. vol. 163; p. 325.
Engberg, Peter J., Braham, Minn. Depositor's trial-balance sheet and holder. No. 988,557; Apr. 4; Sp. p. 564; Gaz. vol. 165; p. 91.
Engebretson, Hegge, Montevideo, Minn. Steam-engine. No. 1,004,395; Sept. 26; Sp. p. 4852; Gaz. vol. 170; p. 857.
Engel, Charles R., Oaklyn, N. J. Cranking device for gas-engines. No. 992,864; May 23; Sp. p. 4366; Gaz. vol. 166; p. 802.
Engel, Frank, assignor to National Battery Company, Buffalo, N. Y. Casting-machine. No. 1,012,829; Dec. 26; Sp. p. 5408; Gaz. vol. 173; p. 960.
Engel, Karl, Hanover, Germany. Raw-tallow substitute for lubricating purposes and manufacturing the same. No. 1,012,830; Dec. 26; Sp. p. 5411; Gaz. vol. 173; p. 960.
Engel, Karl, Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for forming uppers of boots and shoes. No. 998,682; July 25; Sp. p. 4532; Gaz. vol. 168; p. 827.
Engel, Karl, Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Forming uppers of boots and shoes. No. 1,001,745; Aug. 29; Sp. p. 5438; Gaz. vol. 169; p. 1002.
Engel, William. (See Schruth and Engel.)
Engelberg, Henry C., New York, N. Y. Holder for umbrellas, &c. No. 988,180; Mar. 28; Sp. p. 5153; Gaz. vol. 164; p. 914.
Engelhardt, Frank M., Chicago, Ill., assignor to Toledo Computing Scale Company, Toledo, Ohio, and Newark, N. J. Computing-scale. No. 1,005,947; Oct. 17; Sp. p. 3032; Gaz. vol. 171; p. 546.
Engelhardt, Robert F. (See Conniff, William E., assignor.)
Engelhardt & Sons, F. (See Hobart, Adam J., assignor.)
Engelland, Henry F., Mishicott, Wis. Corn-harvesting machine. No. 981,400; Jan. 10; Sp. p. 2806; Gaz. vol. 162; p. 454.
Engelmann, Bertram A., Baker, Kans. Incubator. No. 980,228; Jan. 3; Sp. p. 98; Gaz. vol. 162; p. 19.
Engelmann, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Organic mercury compound. No. 1,001,829; Aug. 29; Sp. p. 5622; Gaz. vol. 169; p. 1030.
Engelmohr, Hermann, Berlin, Germany. Adjustable picture-frame. No. 996,915; July 4; Sp. p. 657; Gaz. vol. 168; p. 107.
Engeln, Harry F. von, Ludell, Kans. Fence-post brace. No. 991,913; May 9; Sp. p. 2313; Gaz. vol. 166; p. 412.
Engelsman, Monroe, New York, N. Y. Display-stand. No. 988,631; Apr. 4; Sp. p. 739; Gaz. vol. 165; p. 118.
Engert, George J. (See Hastings and Engert.)
Engert, George J., and C. R. Hesseltine, Spokane, Wash. Combined floor and bench scraper. No. 1,008,295; Nov. 7; Sp. p. 1409; Gaz. vol. 172; p. 228.
Engi, Gadient, and J. Fröhlich, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Yellow-colored derivatives of indigo and making same. No. 994,988; June 13; Sp. p. 1974; Gaz. vol. 167; p. 345.
Engi, Gadient, and J. Fröhlich, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Halogenized vat dyestuffs and making same. No. 997,766; July 11; Sp. p. 2466; Gaz. vol. 168; p. 430.
Engine Room Specialty Co. (See Graham, John C., assignor.)

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England, Alexander, Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Suction air-strainer. No. 985,792; Mar. 7; Sp. p. 51; Gaz. vol. 164; p. 11.
England, Arthur E., assignor to Carr Fastener Company, Boston, Mass. Stud and socket fastener. No. 985,887; Mar. 7; Sp. p. 276; Gaz. vol. 164; p. 44.
England, Arthur E., Amesbury, assignor to E. E. Kent, Newton, Mass. Fastening device. No. 986,372; Mar. 7; Sp. p. 1294; Gaz. vol. 164; p. 209.
England, Arthur E., Boston, assignor to F. S. Carr, Brookline, and E. S. Foster, Winchester, Mass. Fastener. No. 988,558; Apr. 4; Sp. p. 566; Gaz. vol. 165; p. 91.
England, Fred, assignor to Amesbury Metal Body Company, Amesbury, Mass. Door for automobiles and other vehicles. No. 1,008,805; Nov. 14; Sp. p. 2656; Gaz. vol. 172; p. 446.
England, Joseph A., Washington, D. C. Moving-picture apparatus. No. 1,012,344; Dec. 19; Sp. p. 4371; Gaz. vol. 173; p. 748.
Englander Spring Bed Company, The. (See Halpin, Michael J., assignor.)
Englander Spring Bed Company, The. (See Kreuzkamp, August J., assignor.)
Engle, Alvin H. (See Powell, John B., assignor.)
Engle, David E., Kiefer, Okla., assignor of one-half to A. Leschen & Sons Rope Company, St. Louis, Mo. Coupling device. No. 1,005,699; Oct. 10; Sp. p. 2484; Gaz. vol. 171; p. 426.
Engle, Edith I., *et al.* (See Crookshank, George E., assignor.)
Engle, Harry. (See Berry, Christopher, assignor.)
Engle, Lodonzo C., Keller, W. Va. Railway-tie and fastening. No. 1,001,938; Aug. 29; Sp. p. 5875; Gaz. vol. 169; p. 1066.
Engleman, Joe H., Pittsburg, Pa. Machine for manufacturing lacquered ware. No. 990,644; Apr. 25; Sp. p. 5102; Gaz. vol. 165; p. 889.
Engleman, Joe H., Pittsburg, Pa. Machine for manufacturing lacquered ware. No. 990,645; Apr. 25; Sp. p. 5106; Gaz. vol. 165; p. 889.
Englen, Frederick J., South Omaha, Nebr. Filling-machine. No. 993,230; May 23; Sp. p. 5129; Gaz. vol. 166; p. 924.
English, Frederick A., assignor to Birtman Electric Company, Chicago, Ill. Suction-cleaner. No. 1,012,195; Dec. 19; Sp. p. 4059; Gaz. vol. 173; p. 697.
English, John C., Camden, N. J., Talking-machine. No. 1,011,419; Dec. 12; Sp. p. 2287; Gaz. vol. 173; p. 390.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 1,001,004; Aug. 22; Sp. p. 3910; Gaz. vol. 169; p. 720.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Sound-box. No. 1,001,746; Aug. 29; Sp. p. 5440; Gaz. vol. 169; p. 1002.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Needle-receptacle for talking-machines. No. 1,011,420; Dec. 12; Sp. p. 2288; Gaz. vol. 173; p. 391.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Talking-machine. No. 1,013,003; Dec. 26; Sp. p. 5817; Gaz. vol. 173; p. 1017.
English, Peter, San Francisco, Cal. Direct and reverse driving mechanism. No. 1,006,638; Oct. 24; Sp. p. 4596; Gaz. vol. 171; p. 819.
English, Peter, San Francisco, Cal. Rotary fluid-transmitter. No. 1,007,933; Nov. 7; Sp. p. 648; Gaz. vol. 172; p. 100.
English, Peter, San Francisco, Cal., assignor to Twentieth Century Drill Company, Phoenix, Ariz. Drill-bit. No. 993,972; May 30; Sp. p. 6720; Gaz. vol. 166; p. 1209.
English, Roy W., Renfrow, Okla. Engine. No. 1,003,348; Sept. 12; Sp. p. 2545; Gaz. vol. 170; p. 438.
English, William J., Chicago, Ill. Training device for golf-players. No. 1,005,948; Oct. 17; Sp. p. 3035; Gaz. vol. 171; p. 547.
English, William M., Sausalito, L. E. Boukofsky and S. M. Lichtenstein, San Francisco, Cal. Antiseptic telephone-mouthpiece. No. 985,021; Feb. 21; Sp. p. 3779; Gaz. vol. 163; p. 667.
Engman, Evald J., Jersey City, N. J. Supply-valve for candle-making machines and similar devices. No. 1,006,739; Oct. 24; Sp. p. 4790; Gaz. vol. 171; p. 852.
Engstrand, Theodor, Dansville, N. Y. Combination bed, chair, and table. No. 998,761; July 25; Sp. p. 4727; Gaz. vol. 168; p. 855.
Engström, Anders, Topeka, Kans. Life-preserver. No. 1,005,624; Oct. 10; Sp. p. 2331; Gaz. vol. 171; p. 400.
Engstrom, Mauritz, Clam Falls, Wis. Airship. No. 1,012,532; Dec. 19; Sp. p. 4723; Gaz. vol. 173; p. 811.
Eno, Frank F., assignor of three-eighths to E. E. Turner, Jamaica Plain, Mass. Wheel. No. 1,001,939; Aug. 29; Sp. p. 5877; Gaz. vol. 169; p. 1067.
Enomoto, Sekiichi, Tokyo, Japan. Apparatus for casting metal under pressure. No. 1,001,005; Aug. 22; Sp. p. 3913; Gaz. vol. 169; p. 720.
Enos Company, The. (See Stoddart, James, assignor.)
Enright, William, Detroit, Mich. Vehicle-wheel. No. 1,007,436; Oct. 31; Sp. p. 6342; Gaz. vol. 171; p. 1152.

Ensbury, Alexander, and J. S. Taylor, Sacramento, Cal. Metal running-board frame for box-cars. No. 1,006,639; Oct. 24; Sp. p. 4598; Gaz. vol. 171; p. 820.
Ensign, Orville H., Madison, Wis. Gas-cleaning apparatus. No. 1,005,819; Oct. 17; Sp. p. 2731; Gaz. vol. 171; p. 499.
Ensley, Rufus W., Cory, Colo. Liquid-weighing machine. No. 990,716; Apr. 25; Sp. p. 5291; Gaz. vol. 165; p. 912.
Enterprise Foundry Co. (See Carolin, Charles W., assignor.)
Enterprise Manufacturing Company, The. (See Pflueger, George A., assignor.)
Enterprise Manufacturing Company of Pennsylvania, The. (See Brown, John W., Jr., assignor.)
Enterprise Optical Mfg. Company. (See Roebuck, Alvah C., assignor.)
Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
Enterprise Specialty Company, The. (See Cooper, John W., assignor.)
Enyeart, John L., Shirleysburg, Pa. Blackboard-eraser. No. 983,696; Feb. 7; Sp. p. 954; Gaz. vol. 163; p. 151.
Epler, Joseph von, Chicago, Ill. Preserving meats. No. 992,488; May 16; Sp. p. 3570; Gaz. vol. 166; p. 640.
Eppenstein, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Optical combination. No. 993,667; May 30; Sp. p. 6109; Gaz. vol. 166; p. 1106.
Eppenstein, Otto, assignor to Firm of C. Zeiss, Jena, Germany. Optical square. No. 995,235; June 13; Sp. p. 2463; Gaz. vol. 167; p. 426.
Epperson, Oscar W., Los Angeles, Cal. Ice-cream freezer. No. 993,515; May 30; Sp. p. 5764; Gaz. vol. 166; p. 1053.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-leveling machine. No. 996,707; July 4; Sp. p. 224; Gaz. vol. 168; p. 38.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-leveling machine. No. 1,004,155; Sept. 26; Sp. p. 4384; Gaz. vol. 170; p. 777.
Eppler, Andrew, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tension-releasing device. No. 1,011,177; Dec. 12; Sp. p. 1754; Gaz. vol. 173; p. 306.
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Inseam shoe-sewing machine. No. 1,003,175; Sept. 12; Sp. p. 2185; Gaz. vol. 170; p. 375.
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-guide mechanism for welt-shoe-sewing machines. No. 1,005,181; Oct. 10; Sp. p. 1301; Gaz. vol. 171; p. 242.
Eppler, Edwin R., McGirk, Tex. Pump. No. 994,305; June 6; Sp. p. 413; Gaz. vol. 167; p. 71.
Epps, Benjamin T., Athens, Ga. Gear-shifting and brake-applying mechanism. No. 996,572; June 27; Sp. p. 5427; Gaz. vol. 167; p. 949.
Epps, Clinton C., Hastings, Okla. Feeder for cotton-presses. No. 987,869; Mar. 28; Sp. p. 4458; Gaz. vol. 164; p. 810.
Epstein, Benjamin L., Hampton, Va. Registering device for pool-tables. No. 1,000,245; Aug. 8; Sp. p. 2178; Gaz. vol. 169; p. 388.
Epstein, Eli, Boston, Mass. Coaster-brake. No. 988,323; Apr. 4; Sp. p. 60; Gaz. vol. 165; p. 12.
Epstein, Samuel. (See Epstein, William and S.)
Epstein, William and S., New York, N. Y. Self-fitting petticoat. No. 1,001,940; Aug. 29; Sp. p. 5880; Gaz. vol. 169; p. 1067.
Equilibrator Company. (See Fuerth, William G., assignor.)
Equilibrium Valve Engine Company. (See Austin, William K., assignor.)
Erb, Arthur A. (See Gaines and Erb.)
Erb, Edmund M., Jersey City, N. J. Test-indicator. No. 1,006,924; Oct. 24; Sp. p. 5224; Gaz. vol. 171; p. 918.
Erb, John W., Newport, Ky. Rolling roof. No. 1,006,374; Oct. 17; Sp. p. 3988; Gaz. vol. 171; p. 694.
Erb, Peter F., and C. F. Bloom, Roseglen, N. D. Subsurface-packing plow attachment. No. 987,053; Mar. 14; Sp. p. 2712; Gaz. vol. 164; p. 469.
Erb, Theodore C., assignor of two-ninths to W. M. Bates, Harrisburg, two-ninths to J. P. Nestor and two-ninths to J. Reiff, Lykens, Pa. Spring-wheel. No. 984,894; Feb. 21; Sp. p. 3535; Gaz. vol. 163; p. 625.
Erben, Hermann F. T., and J. L. Burnham, Schenectady, N. Y., assignors to General Electric Company. Three-wire generator. No. 993,973; May 30; Sp. p. 6721; Gaz. vol. 166; p. 1210.
Erben, Walter, Radnor, Pa. Apparatus for examining yarn. No. 998,484; July 18; Sp. p. 4094; Gaz. vol. 168; p. 726.
Erby, James F. (See Watts and Onstead, assignors.)
Erck, Henry L., Canton, Ohio. Fitting for plumbing systems. No. 991,142; May 2; Sp. p. 666; Gaz. vol. 166; p. 113.
Erdman, Albert W., Waterbury, Conn. Range-finder. No. 983,272; Feb. 7; Sp. p. 24; Gaz. vol. 163; p. 7.
Erevick, Einer, Clarkfield, Minn. Derrick. No. 1,007,776; Nov. 7; Sp. p. 275; Gaz. vol. 172; p. 44.

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Ergenzinger, Martin. (See Cook, Samuel, assignor.)
Erhardt, Ludwig, assignor to W. Siedersleben & Co., G. m. b. H., Bernburg, Germany. Topping device for harvesters. No. 1,009,058; Nov. 21; Sp. p. 3197; Gaz. vol. 172; p. 566.
Erhart, George W., Pittsburg, Pa. Folding box and crate. No. 999,020; July 25; Sp. p. 5321; Gaz. vol. 168; p. 947.
Erich, George F., Allentown, Pa. Apparatus for distributing materials such as fertilizers. No. 1,005,525; Oct. 10; Sp. p. 2075; Gaz. vol. 171; p. 365.
Erichsen, Adolph C. E., assignor to Gorham Manufacturing Company, Providence, R. I. Urn or glass holder. No. 1,001,628; Aug. 29; Sp. p. 5178; Gaz. vol. 169; p. 960.
Erickson, Axel M., Cambridge, assignor to S. D. Hicks & Son, Boston, Mass. Seamless jacketed kettle. No. 1,004,001; Sept. 26; Sp. p. 3986; Gaz. vol. 170; p. 721.
Erickson, Charles F., assignor of one-half to W. H. Hoople, Brooklyn, N. Y. Air and gas mixer for internal-combustion engines. No. 986,151; Mar. 7; Sp. p. 816; Gaz. vol. 164; p. 133.
Erickson, Edward, Wahpeton, N. D. Thill-coupling. No. 993,441; May 30; Sp. p. 5601; Gaz. vol. 166; p. 1027.
Erickson, Edward, Lynn, assignor to L. E. Johnson, Winthrop, Mass. Sewing-machine. No. 1,003,176; Sept. 12; Sp. p. 2186; Gaz. vol. 170; p. 375.
Erickson, Frederic W., New York, N. Y. Interior-conduit distribution. No. 997,282; July 11; Sp. p. 1442; Gaz. vol. 168; p. 265.
Erickson, Frederick, Lindsborg, Kans. Shovel. No. 993,668; May 30; Sp. p. 6116; Gaz. vol. 166; p. 1107.
Erickson, Gustaf E., Iron Mountain, Mich. Puzzle. No. 985,253; Feb. 28; Sp. p. 4324; Gaz. vol. 163; p. 781.
Erickson, Hans J., and H. W. Freeman, Deer Creek, Minn. Angle-bar straightener. No. 997,767; July 11; Sp. p. 2468; Gaz. vol. 168; p. 431.
Erickson, John, Warren, Pa. Drawing instrument. No. 999,104; July 25; Sp. p. 5480; Gaz. vol. 168; p. 975.
Erickson, John, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Selective signaling system. No. 984,202; Feb. 14; Sp. p. 2040; Gaz. vol. 163; p. 351.
Erickson, John, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Selective signaling system. No. 984,203; Feb. 14; Sp. p. 2056; Gaz. vol. 163; p. 352.
Erickson, John, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Lock-out for party-line-telephone subscribers' stations. No. 984,204; Feb. 14; Sp. p. 2076; Gaz. vol. 163; p. 352.
Erickson, John, assignor, by mesne assignments, to First Trust and Savings Bank, trustee, Chicago, Ill. Electro-thermal switch. No. 1,009,834; Nov. 28; Sp. p. 4877; Gaz. vol. 172; p. 880.
Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Telephone-system signaling apparatus. No. 1,007,344; Oct. 31; Sp. p. 6138; Gaz. vol. 171; p. 1119.
Erickson, John F., and M. M. Woodward, Wild Rose, Wis. Mail-carrying device. No. 989,492; Apr. 11; Sp. p. 2528; Gaz. vol. 165; p. 428.
Erickson, Joseph H., San Francisco, Cal. Phonographic automobile-alarm. No. 1,001,830; Aug. 29; Sp. p. 5623; Gaz. vol. 169; p. 1030.
Erickson, Oscar J., Benson, Minn. Grain-cleaning machine. No. 994,580; June 6; Sp. p. 995; Gaz. vol. 167; p. 165.
Erickson, Oscar J., Benson, Minn. Pipe-cutter. No. 1,007,651; Oct. 31; Sp. p. 6811; Gaz. vol. 171; p. 1224.
Erickson, Peter, Muskegon, Mich. Shaper-guard. No. 987,452; Mar. 21; Sp. p. 3584; Gaz. vol. 164; p. 638.
Erickson, Peter, Minneapolis, Minn. Link for conveyer-chains. No. 992,176; May 16; Sp. p. 2856; Gaz. vol. 166; p. 532.
Erickson, Peter E., Port Chester, N. Y. Pipe-wrench. No. 993,231; May 23; Sp. p. 5134; Gaz. vol. 166; p. 925.
Erickson, William T., New York, N. Y. Stamp and label. No. 1,003,443; Sept. 19; Sp. p. 2737; Gaz. vol. 170; p. 502.
Ericson, Charles J., Salt Lake City, Utah. Locking mechanism for emergency exit-doors. No. 980,229; Jan. 3; Sp. p. 99; Gaz. vol. 162; p. 20.
Erie Car Works. (See McCarthy, John J., assignor.)
Erie City Iron Works. (See Durban, Thomas E., assignor.)
Erie City Iron Works. (See Selden, Edward P., assignor.)
Erie Wrench Company, The. (See Denham, Edwin A., assignor.)
Eriksen, Fritz, Copenhagen, Denmark. Releasing mechanism for boats. No. 984,421; Feb. 14; Sp. p. 2515; Gaz. vol. 163; p. 425.
Eriksen, Fritz, Copenhagen, Denmark. Deck-lashing device for life-saving appliances. No. 999,158; July 25; Sp. p. 5574; Gaz. vol. 168; p. 991.
Erikson, Charles O., assignor of one-fourth to L. L. Hall, one-fourth to F. M. Appleby, and one-fourth to C. T. Roan, Douglas, Ga. Gum-filter. No. 984,364; Feb. 14; Sp. p. 2403; Gaz. vol. 163; p. 407.
Erikson, Emil, Emigrant Gap, Cal. Railway-spike. No. 1,000,246; Aug. 8; Sp. p. 2180; Gaz. vol. 169; p. 388.
Erikson, John, Providence, R. I. Lubricator. No. 1,000,791; Aug. 15; Sp. p. 3406; Gaz. vol. 169; p. 612.
Erikson, John E., Pequot, Minn. Motor-boat attachment. No. 1,002,661; Sept. 5; Sp. p. 1060; Gaz. vol. 170; p. 159.
Erlenbach, Arnold, Dessau, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Dyeing hairs, furs, and the like. No. 992,947; May 23; Sp. p. 4549; Gaz. vol. 166; p. 832.
Erlewine, Henry L., assignor to Central Machine & Foundry Co., Marion, Ind. Boiler-flue cleaner. No. 1,012,533; Dec. 19; Sp. p. 4726; Gaz. vol. 173; p. 811.
Erlwein, Georg, and K. Warth, assignors to Siemens & Halske A. G., Berlin, Germany. Making nitrogenous compounds. No. 994,095; May 30; Sp. p. 6977; Gaz. vol. 166; p. 1251.
Ermbter, Jacob, München-Gladbach, assignor of one-half to C. Roesch & Co., Mülheim-on-the-Ruhr, Germany. Napping-machine. No. 990,244; Apr. 25; Sp. p. 4202; Gaz. vol. 165; p. 749.
Ermentraut, Jean, Höchst-on-the-Main, Germany. Wood-planing machine. No. 994,989; June 13; Sp. p. 1975; Gaz. vol. 167; p. 345.
Ern, Carl F., Jr., Wald, near Solingen, Germany. Safety-razor. No. 987,453; Mar. 21; Sp. p. 3586; Gaz. vol. 164; p. 638.
Ernenwein, Phillip, New York, N. Y. Rubber tire. No. 992,177; May 16; Sp. p. 2857; Gaz. vol. 166; p. 532.
Ernsberger, Vernon, *et al.* (See Smith, Felix J., assignor.)
Ernst, Charles K., Buffalo, N. Y. Post-cap. No. 1,013,004; Dec. 26; Sp. p. 5822; Gaz. vol. 173; p. 1018.
Ernst, Charles K., Buffalo, N. Y. Hoisting apparatus. No. 1,013,005; Dec. 26; Sp. p. 5824; Gaz. vol. 173; p. 1018.
Ernst, Edward G., Cleveland, Ohio. Printing mechanism. No. 991,203; May 2; Sp. p. 798; Gaz. vol. 166; p. 136.
Ernst, Edward G., Cleveland, Ohio. Addressing-machine. No. 991,283; May 2; Sp. p. 978; Gaz. vol. 166; p. 165.
Ernst, Ethan A., assignor of one-third to W. E. Nogal and one-third to W. S. Holbert, Lamar, Colo. Portable dam. No. 981,849; Jan. 17; Sp. p. 3728; Gaz. vol. 162; p. 631.
Ernst, John F., St. Johns, Mich. Machine for shelling corn. No. 1,009,394; Nov. 21; Sp. p. 3973; Gaz. vol. 172; p. 686.
Ernst, Otto, and H. Eichwede, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Monoazo dyestuff and making same. No. 983,486; Feb. 7; Sp. p. 493; Gaz. vol. 163; p. 79.
Ernst, Otto, and H. Eichwede, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Producing dischargeable dyeings on cotton. No. 1,012,619; Dec. 26; Sp. p. 4928; Gaz. vol. 173; p. 886.
Erosa, Adriano. (See Erosa, Armin and A.)
Erosa, Armin and A., Mérida, Mexico. Making flour of maize. No. 987,560; Mar. 21; Sp. p. 3770; Gaz. vol. 164; p. 673.
Errett, Joseph, Cleveland, Ohio. Platform-gear for vehicles. No. 984,895; Feb. 21; Sp. p. 3537; Gaz. vol. 163; p. 625.
Errington, Franklin A., Stapleton, N. Y. Automatically-opening die. No. 1,007,189; Oct. 31; Sp. p. 5830; Gaz. vol. 171; p. 1064.
Erskine, John W., Mount Hope, W. Va. Air-brake. No. 987,454; Mar. 21; Sp. p. 3588; Gaz. vol. 164; p. 639.
Erste Oesterreichische Sodafabrik. (See Opl, Carl, assignor.)
Ertel, John P., Rushville, Ind. Fender for plows. No. 992,646; May 16; Sp. p. 3899; Gaz. vol. 166; p. 695.
Ertzman, Frederick W., *et al.* (See Niele, Valentine J., assignor.)
Ervin, George M., Pen Mar, Pa., assignor to The Lorain Steel Company. Clamp for guard-rails. No. 987,972; Mar. 28; Sp. p. 4746; Gaz. vol. 164; p. 846.
Erwin, Howell C., Jr. (See Wood, Albert B., assignor.)
Erwin, James L., assignor of one-third to S. S. Miles and one-third to J. F. Jorden, Greensboro, N. C. Cotton chopper and cultivator. No. 990,480; Apr. 25; Sp. p. 4733; Gaz. vol. 165; p. 832.
Erwin, Jeremiah. (See Thorsen, Benjamin B., assignor.)
Erwin, Jeremiah, assignor of one-fourth to B. B. Thorsen, Chicago, Ill. Combined closure and spreader for liquid-containers. No. 1,000,081; Aug. 8; Sp. p. 1838; Gaz. vol. 169; p. 332.
Erwin, Jewel, Coalinga, Cal. Clothes-pin. No. 987,288; Mar. 21; Sp. p. 3233; Gaz. vol. 164; p. 583.
Erwin, Robert A., and W. R. Long, Rockhill, S. C. Cotton-chopper. No. 992,412; May 16; Sp. p. 3415; Gaz. vol. 166; p. 615.
Erwin, Samuel J. W. (See Kemper, George A., assignor.)
Erz, George, Lynden, Wash. Window-latch. No. 986,152; Mar. 7; Sp p. 818; Gaz. vol. 164; p. 133.
Escalante, Carlos, and J. P. Sirgado, Mérida, Mexico. Vehicle-spring. No. 986,969; Mar. 14; Sp. p. 2554; Gaz. vol. 164; p. 442.
Escalante, Carlos, and J. P. Sirgado, Mérida, Mexico. Vehicle. No. 988,181; Mar. 28; Sp. p. 5155; Gaz. vol. 164; p. 914.
Escarras, Gabriel. (See Du Pont, Paul D., assignor.)

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Esch, Victor H. (See Blundon and Esch.)
Eschalier, Xavier, Villeurbanne, France. Strengthening cellulose. No. 995,852; June 20; Sp. p. 3852; Gaz. vol. 167; p. 670.
Eschenbach, Franz, St. James, N. Y. Ice-cutting machine. No. 995,236; June 13; Sp. p. 2464; Gaz. vol. 167; p. 426.
Eschenbruecher, Charles, Philadelphia, Pa. Combination table and bed. No. 981,402; Jan. 10; Sp. p. 2808; Gaz. vol. 162; p. 455.
Eschenbruecher, Charles, Philadelphia, Pa. Game-table. No. 1,008,894; Nov. 14; Sp. p. 2827; Gaz. vol. 172; p. 475.
Esender, Edward, Baltimore, Md. Window-ventilator. No. 995,237; June 13; Sp. p. 2466; Gaz. vol. 167; p. 427.
Eshbaugh, Albert R., assignor to L. H. Buzzell, William, W. Va. Combined window-shade and curtain-pole support. No. 990,428; Apr. 25; Sp. p. 4638; Gaz. vol. 165; p. 816.
Eske, Albert, assignor to Curtis-Leger Fixture Company, Chicago, Ill. Form-display device. No. 989,771; Apr. 18; Sp. p. 3166; Gaz. vol. 165; p. 556.
Eskin, Samuel, New York, N. Y. Self-adjusting guard. No. 995,122; June 13; Sp. p. 2238; Gaz. vol. 167; p. 389.
Esliger, Edward, Everett, Wash. Rail and splice-bar. No. 991,284; May 2; Sp. p. 983; Gaz. vol. 166; p. 165.
Esplen, Ray E., Pittsburg, Pa. Attachment for stoves and ranges. No. 991,492; May 9; Sp. p. 1422; Gaz. vol. 166; p. 267.
Essex, Joseph W., Seattle, Wash. Display-fixture. No. 1,005,820; Oct. 17; Sp. p. 2736; Gaz. vol. 171; p. 499.
Essex Machine Company. (See Reed, James H., assignor.)
Essex, Winfield S., Fort Worth, Tex. Oil-burner. No. 1,005,821; Oct. 17; Sp. p. 2737; Gaz. vol. 171; p. 500.
Esslinger, John A., Washington, D. C. Telegraphy. No. 993,442; May 30; Sp. p. 5602; Gaz. vol. 166; p. 1028.
Estell, Samuel F., Florence, Cal. Registering-bank. No. 988,933; Apr. 4; Sp. p. 1341; Gaz. vol. 165; p. 215.
Estell, Samuel F., Florence, and A. D. Westbrook, Los Angeles, Cal. Hose-coupling. No. 1,006,190; Oct. 17; Sp. p. 3567; Gaz. vol. 171; p. 631.
Estelle, Axel T. K., assignor to Nya Ackumulator Aktiebolaget Jungner, Fliseryd, Sweden. Manufacturing iron electrodes for use in alkaline accumulators. No. 983,430; Feb. 7; Sp. p. 367; Gaz. vol. 163; p. 61.
Estep, Albert A. (See Maxey and Estep.)
Estes, Ambrose W., Yellville, Ark. Index for abstracts of conveyances and other records affecting land-titles. No. 1,011,765; Dec. 12; Sp. p. 3063; Gaz. vol. 173; p. 512.
Estes, Barton, assignor of one-half to W. Brown, Seattle, Wash. Railway-rail and nut lock. No. 992,647; May 16; Sp. p. 3900; Gaz. vol. 166; p. 695.
Estes, Charles E., assignor of one-half to E. N. Tompkins, Medusa, and C. C. Reeve, Richmond Hill, N. Y. Drawbar equalizer. No. 999,495; Aug. 1; Sp. p. 594; Gaz. vol. 169; p. 103.
Estes, Clifford S., Ridgway, Pa., and J. P. B. Fiske, Auburndale, assignors to Fiske & Company, Inc., Boston, Mass. Brickmaking-machine. No. 1,002,976; Sept. 12; Sp. p. 1772; Gaz. vol. 170; p. 307.
Estes, Cyrus P., Oswego, N. Y. Locomotive-cab lamp. No. 1,000,502; Aug. 15; Sp. p. 2751; Gaz. vol. 169; p. 509.
Estes, Cyrus P., Oswego, N. Y. Locomotive-cab lamp. No. 1,007,652; Oct. 31; Sp. p. 6813; Gaz. vol. 171; p. 1224.
Estes, John W., Hot Springs, Ark. Eccentrically-mounted bearing for stub-axles. No. 996,473; June 27; Sp. p. 5232; Gaz. vol. 167; p. 918.
Estes, John W., Davidson, Okla. Artificial-draft and smoke-consuming system. No. 1,009,835; Nov. 28; Sp. p. 4879; Gaz. vol. 172; p. 881.
Estes, John W., Athens, assignor of one-half to W. P. Parks, Mena, Ark. Valved closure for receptacles. No. 982,043; Jan. 17; Sp. p. 4188; Gaz. vol. 162; p. 698.
Estlin, Eustace S., Winnipeg, Manitoba, Canada. Street-sweeper. No. 996,230; June 27; Sp. p. 4675; Gaz. vol. 167; p. 833.
Etchells, James. (See Crouch and Etchells.)
Etheridge, Halls B., Northwest, Va. Weeding-machine. No. 989,136; Apr. 11; Sp. p. 1770; Gaz. vol. 165; p. 308.
Etheridge, Harry, Zelienople, assignor of one-half to R. H. Boggs, Pittsburg, Pa. Motor leads connection for street-cars. No. 981,545; Jan. 10; Sp. p. 3092; Gaz. vol. 162; p. 504.
Etheridge, Thomas H., Jr., Hallville, Tex. Ever-level table. No. 997,246; July 4; Sp. p. 1359; Gaz. vol. 168; p. 223.
Etherington, James B., Winthrop, Mass., assignor to Campbell Magnetic Separating Company. Ore-cooling apparatus. No. 986,813; Mar. 14; Sp. p. 2246; Gaz. vol. 164; p. 389.
Etherington, James B., Winthrop, Mass., assignor to Campbell Magnetic Separating Company. Magnetic separator for ores. No. 1,006,835; Oct. 24; Sp. p. 5036; Gaz. vol. 171; p. 888.
Etrich, Igo, Vienna, Austria-Hungary. Supporting-surface for flying-machines. No. 983,697; Feb. 7; Sp. p. 955; Gaz. vol. 163; p. 151.
Ette, Charles G., assignor to Ette Investment Company, St. Louis, Mo. Insulator-pin. No. 995,123; June 13; Sp. p. 2239; Gaz. vol. 167; p. 390.
Ette, Charles G., assignor to Ette Investment Company, St. Louis, Mo. Insulator-bracket. No. 1,000,389; Aug. 15; Sp. p. 2506; Gaz. vol. 169; p. 469.
Ette Investment Company. (See Ette, Charles G., assignor.)
Etter, Jacob R., Crawfordsville, Ind. Head-rest for chairs. No. 1,008,456; Nov. 14; Sp. p. 1894; Gaz. vol. 172; p. 324.
Ettler, John A., San Francisco, Cal. Combined record-book and slide-rule. No. 1,009,493; Nov. 21; Sp. p. 4184; Gaz. vol. 172; p. 721.
Eubank, Edwin M. (See Spoonts and Eubank.)
Eubank, John C., Cane Valley, Ky. Harrow. No. 983,035; Jan. 31; Sp. p. 6296; Gaz. vol. 162; p. 1094.
Eubanks, Sayers D., West Durham, N. C., assignor to Draper Company, Hopedale, Mass. Fork-grid clearer for looms. No. 993,443; May 30; Sp. p. 5606; Gaz. vol. 166; p. 1028.
Euler, Frank M., Elizabeth, N. J. Lamp. No. 1,004,002; Sept. 26; Sp. p. 3987; Gaz. vol. 170; p. 721.
Eureka Bottle Cap Remover Company. (See Forsyth, Charles F., assignor.)
Eureka Bottle Cap Remover Company. (See Wallace and Forsyth, assignors.)
Eureka Fence Machine Company. (See Willmarth, Charles A., assignor.)
Eustice, Edward A. and E. L., Newton, Iowa. Driving mechanism. No. 1,008,316; Nov. 14; Sp. p. 1496; Gaz. vol. 172; p. 274.
Eustice, Edward L. (See Eustice, Edward A. and E. L.)
Eustis, George P., Washington, D. C. Combined wheel and axle. No. 990,038; Apr. 18; Sp. p. 3743; Gaz. vol. 165; p. 647.
Eustis, George P., Washington, D. C. Combined car wheel and axle. No. 990,196; Apr. 18; Sp. p. 4070; Gaz. vol. 165; p. 700.
Euston, Edwin, assignor to Euston Lead Company, St. Louis, Mo. Making white lead. No. 1,002,380; Sept. 5; Sp. p. 466; Gaz. vol. 170; p. 66.
Euston Lead Company. (See Euston, Edwin, assignor.)
Euterpean Duplicator Company. (See Myers, Edgar W., assignor.)
Evans, Cadwallader, Jr., Pittsburg, Pa. Snow disposal. No. 995,446; June 20; Sp. p. 2944; Gaz. vol. 167; p. 525.
Evans, Charles A., Circleville, Ohio. Nut-lock. No. 983,036; Jan. 31; Sp. p. 6297; Gaz. vol. 162; p. 1094.
Evans, David H., Detroit, Mich. Locking device for controlling-levers of motors. No. 1,004,396; Sept. 26; Sp. p. 4853; Gaz. vol. 170; p. 857.
Evans, David W., Pittston, Pa. Vehicle-brake. No. 999,554; Aug. 1; Sp. p. 717; Gaz. vol. 169; p. 123.
Evans, Evan, Port Talbot, England. Ingot-mold. No. 1,005,773; Oct. 10; Sp. p. 2627; Gaz. vol. 171; p. 453.
Evans, Evan, Berlin, Germany, assignor, by mesne assignments, to General Electric Company. Electricity-meter. No. 1,010,416; Dec. 5; Sp. p. 26; Gaz. vol. 173; p. 6.
Evans, Frederick, London, England. Advertising device. No. 982,355; Jan. 24; Sp. p. 4820; Gaz. vol. 162; p. 835.
Evans, George B., Toronto, Ontario, Canada. Window. No. 1,001,006; Aug. 22; Sp. p. 3917; Gaz. vol. 169; p. 721.
Evans, Gordon M., New York, N. Y., and J. S. Beckett, Fanwood, N. J., assignors to Fuel Engineering Company of New York, New York, N. Y. Calorimeter. No. 1,000,082; Aug. 8; Sp. p. 1840; Gaz. vol. 169; p. 333.
Evans, Henry O., Philadelphia, Pa. Reversing mechanism. No. 1,004,862; Oct. 3; Sp. p. 682; Gaz. vol. 171; p. 111.
Evans, Herbert E., London, England. Incandescent-lamp socket. No. 995,238; June 13; Sp. p. 2467; Gaz. vol. 167; p. 427.
Evans, Horace, Ross, Wyo. Brake-block holder. No. 992,948; May 23; Sp. p. 4550; Gaz. vol. 166; p. 832.
Evans, Howard S., Chicago, Ill. Railway-switch structure. No. 1,007,437; Oct. 31; Sp. p. 6343; Gaz. vol. 171; p. 1152.
Evans, James A., Fort Worth, Tex. Suspensory drawers. No. 994,306; June 6; Sp. p. 414; Gaz. vol. 167; p. 71.
Evans, James C., Shamokin, Pa. Automatic train-pipe coupling. No. 982,943; Jan. 31; Sp. p. 6085; Gaz. vol. 162; p. 1063.
Evans, Jesse M., Houston, Tex. Automatic funnel. No. 994,730; June 13; Sp. p. 1375; Gaz. vol. 167; p. 257.
Evans, John M. (See Orme, Robert, assignor.)
Evans, John W. (See Stansfield, Alfred, assignor.)
Evans, Knowles, Eureka, Cal. Folding bed. No. 995,336; June 13; Sp. p. 2683; Gaz. vol. 167; p. 460.
Evans, Lorenzo, Hiteman, Iowa. Acetylene-gas lamp. No. 1,005,625; Oct. 10; Sp. p. 2332; Gaz. vol. 171; p. 400.
Evans, Robert T., Chicago, Ill. Resilient wheel for vehicles. No. 987,561; Mar. 21; Sp. p. 3771; Gaz. vol. 164; p. 673.
Evans & Son, S. W. (See Wurster, Charles F., assignor.)
Evans, William C. (See Glassburn and Evans.)

Alphabetical list of patentees—Continued.

Evans, William C., Fort Collins, Colo. Elevator and loader. No. 1,004,863; Oct. 3; Sp. p. 684; Gaz. vol. 171; p. 112.
Evans, William J., assignor of one-half to W. A. Byrider, Akron, Ohio. Bottle-labeling machine. No. 1,007,080; Oct. 31; Sp. p. 5566; Gaz. vol. 171; p. 1024.
Evans, William S., Newark, N. J. Motor-starter switch. No. 1,009,229; Nov. 21; Sp. p. 3587; Gaz. vol. 172; p. 627.
Evans, William T., and B. T. Reilly, Wilkes-Barre, Pa. Drilling and reaming implement. No. 994,307; June 6; Sp. p. 415; Gaz. vol. 167; p. 71.
Eveland, Samuel S., assignor to Standard Roller Bearing Company, Philadelphia, Pa. Annular roller-bearing. No. 992,949; May 23; Sp. p. 4552; Gaz. vol. 166; p. 832.
Eveland, Samuel S., assignor to Standard Roller Bearing Company, Philadelphia, Pa. Ball-press. No. 996,573; June 27; Sp. p. 5429; Gaz. vol. 167; p. 949.
Eveleth, Charles E., Schenectady, N. Y., assignor to General Electric Company. Trolley and trolley-support. No. 1,003,890; Sept. 19; Sp. p. 3684; Gaz. vol. 170; p. 656.
Evenden, John C., and C. Frohlich, Amsterdam, N. Y. Dyeing apparatus. No. 988,633; Apr. 4; Sp. p. 742; Gaz. vol. 165; p. 118.
Evennette, Charles T., London, England. Clutch for metallic piling. No. 985,150; Feb. 28; Sp. p. 4091; Gaz. vol. 163; p. 745.
Evens, Charles S., Walden, N. Y. Pivoted tool. No. 996,231; June 27; Sp. p. 4678; Gaz. vol. 167; p. 834.
Evensen, Olaf, Montreal, Quebec, Canada. Speed-gage. No. 983,127; Jan. 31; Sp. p. 6468; Gaz. vol. 162; p. 1124.
Evensen, William, assignor to The Goss Printing Press Company, Chicago, Ill. Plate-clamping mechanism for printing-presses. No. 988,559; Apr. 4; Sp. p. 569; Gaz. vol. 165; p. 92.
Evensen, William, assignor to The Goss Printing Press Company, Chicago, Ill. Variable-speed driving-gear mechanism. No. 988,560; Apr. 4; Sp. p. 573; Gaz. vol. 165; p. 92.
Ever Ready Fire Extinguisher Co. (See Brent, Charles, assignor.)
Everett, Edward A., assignor of one-fourth to J. C. Mock and one-fourth to J. J. Ross, Detroit, Mich. Mercury circuit-breaker and shunt for signal-relays. No. 990,967; May 2; Sp. p. 299; Gaz. vol. 166; p. 52.
Everett, John H. D., Sault Ste. Marie, Mich. Ironing-board. No. 994,639; June 6; Sp. p. 1137; Gaz. vol. 167; p. 185.
Everhart, Harvey L. (See Lawler and Everhart.)
Everitt, Metzger, Flanders Company. (See Kelly, William, assignor.)
Evers, Henry F., Clyde, Ohio. Friction-clutch. No. 988,987; Apr. 11; Sp. p. 1467; Gaz. vol. 165; p. 257.
Evert, John F. (See Ryder, Frank, assignor.)
Eves, Harry E., Altus, Okla. Roofer's shoe. No. 987,054; Mar. 14; Sp. p. 2713; Gaz. vol. 164; p. 469.
Evette, Paul, assignor to Societe Evette et Schaeffer, Paris, France. Saxophone. No. 1,005,009; Oct. 3; Sp. p. 966; Gaz. vol. 171; p. 161.
Evinrude Motor Co. (See Evinrude, Ole, assignor.)
Evinrude, Ole, assignor to Evinrude Motor Co., Milwaukee, Wis. Marine propulsion mechanism. No. 1,001,260; Aug. 22; Sp. p. 4426; Gaz. vol. 169; p. 805.
Evinrude, Ole, assignor to Evinrude Motor Co., Milwaukee, Wis. Canoe and other small craft. No. 1,011,930; Dec. 19; Sp. p. 3455; Gaz. vol. 173; p. 604.
Ewald, Arno A., Oakfield, Wis. Yieldable gearing. No. 988,182; Mar. 28; Sp. p. 5156; Gaz. vol. 164; p. 914.
Ewald, Martin A., Nicollet, Minn. Wheel. No. 1,011,334; Dec. 12; Sp. p. 2125; Gaz. vol. 173; p. 363.
Ewart, Albert F., and S. Haenny, Canton, Ohio. Swing. No. 995,239; June 13; Sp. p. 2468; Gaz. vol. 167; p. 427.
Ewart, John, Arlington, assignor of one-half to M. P. McLaughlin, Wakefield, Mass. Hydrant. No. 983,545; Feb. 7; Sp. p. 627; Gaz. vol. 163; p. 98.
Ewart, John W. (See Feinstein and Ewart.)
Ewart, William E., Seattle, Wash. Rotary gas-engine valve. No. 983,546; Feb. 7; Sp. p. 629; Gaz. vol. 163; p. 99.
Ewart, William I. (See Shoemaker, Alvin H., assignor.)
Eweler, Henry, Brooklyn, N. Y. Combination-saw. No. 1,011,042; Dec. 5; Sp. p. 1397; Gaz. vol. 173; p. 223.
Ewen, James C. (See Ewen, Robert D. and J. C.)
Ewen, Robert D. and J. C., Whitefish, Mont. Headlight. No. 995,527; June 20; Sp. p. 3123; Gaz. vol. 167; p. 527.
Ewer, Malcolm G., assignor of one-half to F. E. Tallmadge, Detroit, Mich. Automatic locking-seal. No. 1,011,766; Dec. 12; Sp. p. 3066; Gaz. vol. 173; p. 513.
Ewertz, Eric H., Wollaston, Mass. Rotary internal-combustion engine. No. 980,506; Jan. 3; Sp. p. 723; Gaz. vol. 162; p. 116.
Ewing, Andrew F., Asbury Park, N. J. Weather-strip. No. 997,662; July 11; Sp. p. 2222; Gaz. vol. 168; p. 393.
Ewing, Charles H., Haddon Heights, N. J. Insulated rail-joint. No. 1,012,068; Dec. 19; Sp. p. 3769; Gaz. vol. 173; p. 653.
Ewing, Charles H., Haddon Heights, N. J. Insulated rail-joint. No. 1,012,069; Dec. 19; Sp. p. 3772; Gaz. vol. 173; p. 653.
Ewing, Charles P. (See Ewing, William R. and C. P.)
Ewing, Howard M. (See Kendall and Ewing.)
Ewing, James G. B., New York, N. Y. Sanitary system. No. 1,009,395; Nov. 21; Sp. p. 3976; Gaz. vol. 172; p. 687.
Ewing, William R., Mars, and C. P. Ewing, Renfrew, Pa. Locking device for the receiver-arms of telephones. No. 980,619; Jan. 3; Sp. p. 949; Gaz. vol. 162; p. 154.
Ewoldt, Henry, Grand Island, Nebr. Band-cutter and feeder. No. 1,006,071; Oct. 17; Sp. p. 3289; Gaz. vol. 171; p. 588.
Excelsior Needle Company. (See Lamb, Amherst G., assignor.)
Exler, Anton B., Washington, Mo. Welt-shank cutter. No. 1,003,349; Sept. 12; Sp. p. 2547; Gaz. vol. 170; p. 438.
Exline, Verne. (See Botts, Barnet N., assignor.)
Expanded Metal Company, The. (See Salmon, Harry, assignor.)
Extrom, Victor E., and T. G. Boardman, Tomahawk, Wis. Electric cigar-lighter. No. 981,987; Jan. 17; Sp. p. 4067; Gaz. vol. 162; p. 678.
Ey, Eduard. (See Knips and Ey.)
Eyestone, Charles L., Leola, S. D. Hog-trough. No. 997,380; July 11; Sp. p. 1646; Gaz. vol. 168; p. 298.
Eyman, Samuel A., Portland, Oreg. Flush-tank. No. 980,766; Jan. 3; Sp. p. 1258; Gaz. vol. 162; p. 202.
Eynon, Thomas, Chicago, Ill. Phonograph-record and making the same. No. 1,011,421; Dec. 12; Sp. p. 2290; Gaz. vol. 173; p. 391.
Eynon, Thomas M., Philadelphia, Pa. Puncture-proof tire. No. 986,049; Mar. 7; Sp. p. 630; Gaz. vol. 164; p. 101.
Eynon, Thomas M., Philadelphia, Pa. Puncture-proof tire. No. 986,050; Mar. 7; Sp. p. 632; Gaz. vol. 164; p. 102.
Eynon, Thomas M., Philadelphia, Pa. Record-book. No. 992,413; May 16; Sp. p. 3419; Gaz. vol. 166; p. 615.
Eysmans, Julian L., *et al.* (See Rodgers and Richter, assignors.)
Ezzell, John C., Rock Mart, Ga. Valve. No. 1,009,962; Nov. 28; Sp. p. 5121; Gaz. vol. 172; p. 923.
F. Bissell Company, The. (See Gray, Vance I., assignor.)
F. Bissell Company, The. (See Haudenschild, Harry, assignor.)
F. D. Cummer & Son Company, The. (See Cummer, Frederick H., assignor.)
F. H. Sadler Co., The. (See Sadler, Louis E., assignor.)
F. L. Smidth & Co. (See Davidsen, Meyer J., assignor.)
F. L. Smidth & Co. (See Fasting, Johan S., assignor.)
F. L. Smidth & Co. (See Lindhard, Povl T., assignor.)
F. N. Burt Company Limited. (See Coates, Frederick, assignor.)
F. W. Devoe & C. T. Raynolds Company. (See Whitty, George S., assignor.)
F. W. Wakefield Brass Company, The. (See Wakefield, Frederick W., assignor.)
Fabel, Karl, Hamburg, Germany. Internal-combustion motor. No. 985,793; Mar. 7; Sp. p. 52; Gaz. vol. 164; p. 12.
Faber, Carl L., *et al.* (See Thompson, David D., assignor.)
Faber, Frank M. (See Elliott and Faber.)
Faber, Lothar W., New York, N. Y. Amusement device. No. 980,934; Jan. 10; Sp. p. 1675; Gaz. vol. 162; p. 290.
Faber, William J., Oneida, N. Y. Floor-plane. No. 984,083; Feb. 14; Sp. p. 1817; Gaz. vol. 163; p. 312.
Fabian, Sigmund, Chicago, Ill. Rail-joint. No. 1,010,132; Nov. 28; Sp. p. 5477; Gaz. vol. 172; p. 981.
Fabric Roll Protector Co. (See Oltsch, George J., assignor.)
Fabrice, Roman von, Brooklyn, N. Y. Wheel. No. 1,010,484; Dec. 5; Sp. p. 187; Gaz. vol. 173; p. 31.
Fabrik Isolirter Drähte (vormals C. J. Vogel Telegraphendraht-Fabrik) Aktiengesellschaft. (See Vogel, Otto, assignor.)
Fabrique de Vernis et Produits Chimiques Société Anonyme. (See Terrisse, Henri, assignor.)
Fagan, Arthur B. (See Briody, Fagan, and Lynch.)
Fagan, Eugene, Whittier, Cal. Fruit-packing apparatus. No. 990,717; Apr. 25; Sp. p. 5293; Gaz. vol. 165; p. 913.
Fagan, John T., Cleveland, Ohio. Machine for making hooks. No. 1,002,662; Sept. 5; Sp. p. 1063; Gaz. vol. 170; p. 159.
Fagan, John T., Cleveland, Ohio, assignor to National Electric Lamp Company. Machine for forming loops for supporting filaments of electric lamps. No. 980,767; Jan. 3; Sp. p. 1259; Gaz. vol. 162; p. 202.
Fager, Adolf, Madera, Pa. Wrench. No. 990,718; Apr. 25; Sp. p. 5296; Gaz. vol. 165; p. 913.
Fagerström, Ernest E. F. (See Laval and Fagerström.)
Fagervik, Theodore. (See Simonson and Fagervik.)
Faget, Arthur, San Francisco, Cal. Insulated air-pipe. No. 1,006,640; Oct. 24; Sp. p. 4599; Gaz. vol. 171; p. 820.
Faget, Arthur, assignor to Pacific Engineering Company, San Francisco, Cal. Car-precooling door-opening closure. No. 998,082; July 18; Sp. p. 3220; Gaz. vol. 168; p. 582.
Faguy, Joseph A., Montreal, Quebec, Canada. Power transmission from a car-axle for generating electric current. No. 993,669; May 30; Sp. p. 6117; Gaz. vol. 166; p. 1107.
Fahey, Oliver J., Leeds Village, Quebec, Canada. Combination-lock. No. 991,285; May 2; Sp. p. 985; Gaz. vol. 166; p. 166.

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Fahey, Thomas, Spokane, Wash. Aerial propeller. No. 980,935; Jan. 10; Sp. p. 1676; Gaz. vol. 162; p. 290.
Fahey, Thomas, Spokane, Wash. Rotary excavator. No. 992,346; May 16; Sp. p. 3284; Gaz. vol. 166; p. 592.
Fahnestock Electric Company. (See Neher, Levi M., assignor.)
Fahnestock Electric Company. (See Schade, John, Jr., assignor.)
Fahnestock, Ernest B., New York, N. Y. Combination lightning-arrester and fuse-block. No. 1,010,606; Dec. 5; Sp. p. 466; Gaz. vol. 173; p. 72.
Fahr, Johann G., Gottmadingen, Germany. Mowing-machine. No. 992,347; May 16; Sp. p. 3285; Gaz. vol. 166; p. 592.
Fahrenheim, Hans, Essen, Germany. Apparatus for producing a constant gas-supply for calorimetric and other purposes. No. 994,990; June 13; Sp. p. 1976; Gaz. vol. 167; p. 345.
Fahrman, Arthur E., Rochester, Minn. Perforating-machine. No. 1,009,396; Nov. 21; Sp. p. 3979; Gaz. vol. 172; p. 687.
Fahrney, William H., Chicago, Ill. Vehicle-wheel. No. 983,612; Feb. 7; Sp. p. 770; Gaz. vol. 163; p. 121.
Fahrney, William H., Chicago, Ill. Spring vehicle-wheel. No. 993,670; May 30; Sp. p. 6120; Gaz. vol. 166; p. 1107.
Fahrney, William H., Chicago, Ill. Spring vehicle-wheel. No. 998,241; July 18; Sp. p. 3565; Gaz. vol. 168; p. 639.
Fahrney, William H., Chicago, Ill. Drive-point. No. 1,002,250; Sept. 5; Sp. p. 146; Gaz. vol. 170; p. 17.
Fahrney, William H., Chicago, Ill. Vehicle-wheel. No. 1,004,397; Sept. 26; Sp. p. 4854; Gaz. vol. 170; p. 857.
Fahy, William C., assignor of one-half to J. W. McKinney, Philadelphia, Pa. Stoking-tool. No. 983,613; Feb. 7; Sp. p. 772; Gaz. vol. 163; p. 122.
Faifer, Anthony, St. Louis, Mo., assignor to Sieber & Trussell Manufacturing Co. File-binder. No. 998,963; July 25; Sp. p. 5194; Gaz. vol. 168; p. 927.
Faile, George E., New York, N. Y. Clutch. No. 994,379; June 6; Sp. p. 583; Gaz. vol. 167; p. 100.
Failor, William H., Canton, Ohio, assignor of one-half to W. H. Finkenbinder, Carlisle, Pa. Rail-fastener. No. 985,254; Feb. 28; Sp. p. 4326; Gaz. vol. 163; p. 782.
Fair, George and M. D., Blaine, Mich. Plow. No. 1,012,534; Dec. 19; Sp. p. 4728; Gaz. vol. 173; p. 812.
Fair, Milton D. (See Fair, George and M. D.)
Fair, Robert H., Kingston Station, Ontario, Canada. Machine for molding tiles and the like. No. 985,888; Mar. 7; Sp. p. 278; Gaz. vol. 164; p. 45.
Fairall, Harry K., Highlands, Cal. Door-check. No. 987,289; Mar. 21; Sp. p. 3234; Gaz. vol. 164; p. 583.
Fairbank, Clair W. (See Knapp, William B., assignor.)
Fairbank, Clair W. (See Livingston and Fairbank.)
Fairbanks, Crawford, *et al.* (See Gray, Thomas J., assignor.)
Fairbanks, E. Hayward, *et al.* (See Anck, John M., assignor.)
Fairbanks, James G., Marion, Ohio. Spud for excavating-machines. No. 989,898; Apr. 18; Sp. p. 3436; Gaz. vol. 165; p. 599.
Fairbanks, Joseph. (See Richardson, George A., assignor.)
Fairbanks, Morse & Company. (See Elder and Krausch, assignors.)
Fairbanks, Morse & Company. (See Gore and Hobart, assignors.)
Fairbanks, Morse and Company. (See Schneider, Henry C., assignor.)
Fairbanks, Morse and Company. (See Townsend, Roy C., assignor.)
Fairbanks-Morse Electrical Manufacturing Company. (See Berthold, Martin O., assignor.)
Fairbrother, Frederic A., Providence, R. I. Swaged gem-setting. No. 1,001,377; Aug. 22; Sp. p. 4694; Gaz. vol. 169; p. 847.
Fairbrother, Frederic A., Providence, R. I. Gem-setting. No. 1,001,583; Aug. 22; Sp. p. 5073; Gaz. vol. 169; p. 914.
Fairchild, Alice M. (See Harding, Charles K., assignor.)
Fairchild, Oren J., Binghamton, N. Y. Drill-gage. No. 1,008,126; Nov. 7; Sp. p. 1027; Gaz. vol. 172; p. 167.
Fairchild, Orrin A., Silver Creek, N. Y. Door stop and retainer. No. 1,013,006; Dec. 26; Sp. p. 5827; Gaz. vol. 173; p. 1019.
Fairchild, Oscar H., Denver, Colo. Ore-sampler. No. 1,001,129; Aug. 22; Sp. p. 4178; Gaz. vol. 169; p. 764.
Fairchild, Walter H. (See Clenny and Fairchild.)
Fairchild, William, Albany, and G. L. Cooper, Troy, assignors to W. C. and C. R. Martineau, Albany, N. Y. Loose-leaf binder. No. 1,010,607; Dec. 5; Sp. p. 468; Gaz. vol. 173; p. 73.
Fairchild, William B. H. (See Saxton and Fairchild.)
Faircloth, Walter F., Sprague, Ala. Plow-beam. No. 985,408; Feb. 28; Sp. p. 4646; Gaz. vol. 163; p. 832.
Faires, Elisha J., and J. M. Martin, Dallas, Tex. House-screen. No. 984,653; Feb. 21; Sp. p. 3052; Gaz. vol. 163; p. 540.
Fairey, Abraham T., Laceola, Tex. Stump-puller. No. 982,805; Jan. 31; Sp. p. 5769; Gaz. vol. 162; p. 1016.
Fairfield, Jason W., Goldfield, Nev. Agitating and classifying device. No. 1,010,244; Nov. 28; Sp. p. 5696; Gaz. vol. 172; p. 1018.
Fairhurst, Levi. (See Renshaw, Fairhurst, and Cranshaw.)
Fairmount Engineering Works. (See Chadwick, Lee S., assignor.)
Fairview Manufacturing Company. (See Hayes and Deming, assignors.)
Fairweather, Charles B. (See Worth and Fairweather.)
Faison, Leo P., Turkey, N. C. Buckle. No. 1,001,007; Aug. 22; Sp. p. 3918; Gaz. vol. 169; p. 721.
Faivre, Charles L., Le Locle, Switzerland. Alarm clock and watch. No. 1,011,596; Dec. 12; Sp. p. 2724; Gaz. vol. 173; p. 457.
Falchi, Giovanni, Biella, Italy. Drying apparatus for alimentary pastes. No. 989,137; Apr. 11; Sp. p. 1771; Gaz. vol. 165; p. 309.
Falcone, Michele, Cokedale, Colo. Bricklaying-machine. No. 994,506; June 6; Sp. p. 832; Gaz. vol. 167; p. 139.
Fales, Lewis F., Walpole, Mass. Grinding-machine. No. 992,489; May 16; Sp. p. 3572; Gaz. vol. 166; p. 640.
Falk, Andrew, North Braddock, assignor of one-half to H. H. Cahill, Allegheny county, Pa. Quick-acting wrench. No. 995,337; June 13; Sp. p. 2685; Gaz. vol. 167; p. 460.
Falk, Arthur, New York, N. Y. Tobacco-cartridge maker and tobacco-pipe filler. No. 981,252; Jan. 10; Sp. p. 2484; Gaz. vol. 162; p. 404.
Falk, Leopold, Reval, Russia. Manufacture of white lead. No. 999,637; Aug. 1; Sp. p. 865; Gaz. vol. 169; p. 151.
Falk, Morris, Leominster, Mass. Cutting and stamping die. No. 999,303; Aug. 1; Sp. p. 210; Gaz. vol. 169; p. 40.
Falkenberg, Richard A., San Francisco, Cal. Resilient tire. No. 1,004,003; Sept. 26; Sp. p. 3989; Gaz. vol. 170; p. 722.
Falkenrath, Albert, Racine, Wis. Spring door-hinge. No. 980,230; Jan. 3; Sp. p. 103; Gaz. vol. 162; p. 20.
Falkenwalde, Oscar, Baltimore, Md. Antislipping device. No. 990,531; Apr. 25; Sp. p. 4872; Gaz. vol. 165; p. 850.
Falkenwalde, Oscar, assignor to The Snap-On Tire Chain Company, Baltimore, Md. Antiskid-chain for automobile-tires. No. 991,286; May 2; Sp. p. 987; Gaz. vol. 166; p. 166.
Fallenius, Claes C. A., Karlskrona, Sweden. Submarine broadside torpedo-launching tube. No. 990,429; Apr. 25; Sp. p. 4640; Gaz. vol. 165; p. 816.
Faller, Ernest A., New York, N. Y., assignor, by mesne assignments, to Cement Appliances Company. Apparatus for combining comminuted solids and liquids. No. 998,762; July 25; Sp. p. 4730; Gaz. vol. 168; p. 856.
Faller, Oscar, Munich, Germany. Valve. No. 1,001,130; Aug. 22; Sp. p. 4181; Gaz. vol. 169; p. 764.
Fallows, Edward H. (See Jones, Harry, assignor.)
Fallows, Edward H. (See Sargent, Fitz W., assignor.)
Fallows, Edward H. (See Wingert and Jones, assignors.)
Falls, Charles H., Nashua, Iowa. Animal-trap. No. 1,003,891; Sept. 19; Sp. p. 3686; Gaz. vol. 170; p. 656.
Falstrem, Louis, Gravenhurst, and C. Burkland, Jarlsburg, Ontario, Canada. Safety-pin. No. 1,004,398; Sept. 26; Sp. p. 4855; Gaz. vol. 170; p. 858.
Falstrom, Henry W., Newark, N. J. Buckle. No. 1,004,248; Sept. 26; Sp. p. 4570; Gaz. vol. 170; p. 808.
Falstrom, Henry W., Newark, N. J. Buckle. No. 1,009,397; Nov. 21; Sp. p. 3981; Gaz. vol. 172; p. 688.
Falter, Georg, Limperich-on-the-Rhine, Germany. Recoil device for field-guns. No. 985,334; Feb. 28; Sp. p. 4494; Gaz. vol. 163; p. 809.
Falvey, Daniel E., Detroit, Mich. System of transportation for vehicles and their cargoes. No. 986,153; Mar. 7; Sp. p. 821; Gaz. vol. 164; p. 134.
Falwell, Wray, assignor of one-half to C. H. Traiser, Boston, Mass. Spark-plug. No. 981,752; Jan. 17; Sp. p. 3507; Gaz. vol. 162; p. 595.
Falwell, Wray, assignor to Wray Manufacturing Company, Boston, Mass. Sparking device. No. 998,885; July 25; Sp. p. 5015; Gaz. vol. 168; p. 900.
Fancy, Thomas W., Mosers River, Nova Scotia, Canada. Governor for marine steam-engines. No. 996,752; July 4; Sp. p. 301; Gaz. vol. 168; p. 53.
Fanning, George F., New York, N. Y., assignor to Whitely Exerciser Company. Punching-bag apparatus. No. 990,430; Apr. 25; Sp. p. 4643; Gaz. vol. 165; p. 816.
Fanning, John J., Cantley, Quebec, assignor of one-half to T. F. Nellis, Ottawa, Canada. Automatic electric switching mechanism. No. 980,620; Jan. 3; Sp. p. 950; Gaz. vol. 162; p. 154.
Fanning, Peter J., Providence, R. I. Air-compressing blower. No. 983,813; Feb. 7; Sp. p. 1179; Gaz. vol. 163; p. 190.
Fanslow, Benjamin O., Los Angeles, Cal., assignor, by mesne assignments, to Polygraph Duplicating Typewriter Company. Reproducing and imitating machine. No. 989,239; Apr. 11; Sp. p. 1996; Gaz. vol. 165; p. 343.
Fanta, Theodore, assignor to Earnshaw Knitting Company, Chicago, Ill. Undershirt. No. 1,000,390; Aug. 15; Sp. p. 2509; Gaz. vol. 169; p. 469.
Faraday, C. B. (See Jackson, Frank, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Bauer and Herre, assignors.)

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Farbenfabriken vorm. Friedr. Bayer & Co. (See Bauer, Herre, and Mayer, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Becker, Theodor, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Berendes, Rudolph, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Bergdolt, Wilhelm, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Binder, Felix, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Blank and Latten, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Bonhoeffer and Guntrum, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Brenzinger, Karl, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Buff, Max, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Callsen, Jürgen, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Davis, Frederick, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Decker, Herman, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Dressel, Kothe, and Hoerlein, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Dressel, Kothe, and Thauss, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Engelmann, Max, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Friedemann, Erich, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Gorke, Herbert, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Günther, Oscar, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Günther, Hesse, and Zart, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Günther, Hesse, Zart, and Schweitzer, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hausdörfer and Heidenreich, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Heidenreich, Carl, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hiemenz and Rietz, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hoerlein, Heinrich, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hofmann and Coutelle, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hofmann and Meisenburg, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Hofmann and Tank, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Holste, Georg, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Jansen and Neelmeier, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Jordan, Heinrich, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Jordan and Neelmeier, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Kahn and Ossenbeck, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Kothe, Dressel, and Hoerlein, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Kropp and Taub, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Kugel, Max, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Lampé, Eduard, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Lommel, Wilhelm, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Merling and Köhler, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Mieg, Walter, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Neelmeier, Wilhelm, assignor.) (Reissue.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Ott, René, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Schickler and Hahl, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Schoeller and Schrauth, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Schwarz, Maxim, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Schweitzer and Zart, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Thomaschewski, Paul, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Thomaschewski, Raeder, Mieg, and Fischer, assignors.) (Reissue.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Unger and Thomaschewski, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Walther, Hans, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Weiler, Max, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Zaertling and Friedrich, assignors.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Zart, Arthur, assignor.)
Farbenfabriken vorm. Friedr. Bayer & Co. (See Zart and Schweitzer, assignors.)
Färberei-U-Appretürgesellschaft vormals A. Clavel & Fritz Lindenmeyer. (See Clavel, Alexander, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Becke, Max, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Becke and Beil, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Berger, Waldemar, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Brunner, Arnold, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Ehrlich and Bertheim, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Emmerich, Wilhelm, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Ernst and Eichwede, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Henle, Franz, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Hessenland, Max, assignor.)
Farbwerke vorm. Meister, Lucius & Brüning. (See Lesser, Rudolf, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Rössner and Cotton, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Schirmacher and Leopold, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Schmidt, Albrecht, assignor.)
Farbwerke vorm. Meister Lucius & Brüning. (See Stock and Heim, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Stolz and Korndörfer, assignors.)
Farbwerke vorm. Meister Lucius & Brüning. (See Theis, Friedrich C., assignor.)
Fardon, Fred J., Geneva, Ohio. Wagon-box bracket. No. 986,913; Mar. 14; Sp. p. 2459; Gaz. vol. 164; p. 425.
Faris, Charles W., Iowa Falls, Iowa. Station indicator and signal. No. 983,487; Feb. 7; Sp. p. 494; Gaz. vol. 163; p. 79.
Faris, Harry N., Kansas City, Kans. Telephone-ringing device. No. 1,007,684; Nov. 7; Sp. p. 53; Gaz. vol. 172; p. 11.
Faris, Harry N., Kansas City, Kans. Telephone-ringing device. No. 1,008,408; Nov. 14; Sp. p. 1761; Gaz. vol. 172; p. 307.
Faris, William R., Barnet, Vt. Buckle. No. 989,590; Apr. 18; Sp. p. 2799; Gaz. vol. 165; p. 495.
Farkas, Karl, Glen Ridge, N. J. Drawing fine wires of refractory metals. No. 1,008,808; Nov. 14; Sp. p. 2660; Gaz. vol. 172; p. 446.
Farkas, Karl, Glen Ridge, N. J. Incandescent lamp with drawn-metal-wire filament. No. 1,008,809; Nov. 14; Sp. p. 2661; Gaz. vol. 172; p. 447.
Farkas, Karl, assignor of one-half to G. V. Williams, New York, N. Y. Metallic filament for incandescent electric lamps. No. 986,558; Mar. 14; Sp. p. 1709; Gaz. vol. 164; p. 303.
Farkas, Karl, assignor of one-half to G. V. Williams, New York, N. Y. Metallic filaments for incandescent electric lamps. No. 1,008,806; Nov. 14; Sp. p. 2657; Gaz. vol. 172; p. 446.
Farkas, Karl, assignor of one-half to G. V. Williams, New York, N. Y. Metallic filaments for incandescent electric lamps. No. 1,008,807; Nov. 14; Sp. p. 2659; Gaz. vol. 172; p. 446.
Farley, Alfred C., assignor of five-sixths to E. J. Davis and W. H. Shaw and one-sixth to C. C. Van De Boe, Shinglehouse, Pa. Electric fire-alarm. No. 991,053; May 2; Sp. p. 463; Gaz. vol. 166; p. 80.
Farley, Alfred C., and W. B. McDonald; said Farley assignor of one-third to C. A. Wolcott, Shinglehouse, Pa. Automatic alarm. No. 998,485; July 18; Sp. p. 4096; Gaz. vol. 168; p. 726.
Farley, David F. (See Farley, Thomas F. and D. F.)
Farley, E. C. (See Forbes, Byron, assignor.)
Farley, Edward F., New York, N. Y. Bottle-holder. No. 1,008,709; Nov. 14; Sp. p. 2444; Gaz. vol. 172; p. 413.
Farley, Thomas F. and D. F., Pittsfield, Mass. Horseshoe. No. 986,914; Mar. 14; Sp. p. 2460; Gaz. vol. 164; p. 425.
Farlow Draft Gear Co., The. (See Wright, Ira O., assignor.)
Farlow Draft Gear Company, The. (See Webb, Edwin W., assignor.)
Farman, William, New York, N. Y. Nut-lock. No. 981,180; Jan. 10; Sp. p. 2287; Gaz. vol. 162; p. 378.
Farmer, Arthur J., Grosse Points Farms, Mich. Self-protecting check. No. 998,332; July 18; Sp. p. 3791; Gaz. vol. 168; p. 674.
Farmer, Edwin T., Carthage, Mo. Flour-sifter. No. 989,956; Apr. 18; Sp. p. 3572; Gaz. vol. 165; p. 619.
Farmer, Frank H., assignor to The White Company, Cleveland, Ohio. Ball-retainer. No. 997,979; July 18; Sp. p. 2974; Gaz. vol. 168; p. 545.

Alphabetical list of patentees—Continued.

Farmer, Frederick, assignor of one-half to M. P. Whittall, Worcester, Mass. Aeroplane. No. 998,333; July 18; Sp. p. 3793; Gaz. vol. 168; p. 674.
Farmer, John P., assignor of one-fourth to P. J. G. Kleppin and one-fourth to J. Wick, Portland, Oreg. Gas-purifier. No. 999,973; Aug. 8; Sp. p. 1564; Gaz. vol. 169; p. 295.
Farmer, Theodore P., South West Harbor, Me., assignor to Protective Tread Company, Boston, Mass. Safety-tread. No. 990,968; May 2; Sp. p. 301; Gaz. vol. 166; p. 52.
Farmer, William, James River, assignor of one-half to S. F. Poindexter, Lynchburg, Va. Horse-detacher. No. 993,044; May 23; Sp. p. 4754; Gaz. vol. 166; p. 865.
Farmers Manufacturing Company. (See East, John F., assignor.)
Farney, Fred, Forrest, Ill. Wagon. No. 996,323; June 27; Sp. p. 4900; Gaz. vol. 167; p. 865.
Farnham, Bennett W., *et al.* (See Barnes, George A., assignor.)
Farnham, Bion B., Buffalo, N. Y. Suction-roll for paper-machines. No. 1,000,391; Aug. 15; Sp. p. 2510; Gaz. vol. 169; p. 469.
Farnham, Bion B., Buffalo, N. Y. Couch-roll. No. 1,002,251; Sept. 5; Sp. p. 148; Gaz. vol. 170; p. 18.
Farnham, Frank E. (See Porter, John J., assignor.)
Farnham, Frederick F., McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Process and apparatus for electrolytic recovery of waste liquor. No. 1,006,836; Oct. 24; Sp. p. 5039; Gaz. vol. 171; p. 888.
Farnham, George W., assignor to Lowell Machine Shop, Lowell, Mass. Spindle-support for spinning, twisting, and the like machines. No. 986,814; Mar. 14; Sp. p. 2248; Gaz. vol. 164; p. 389.
Farnham, Reginald V., Skelmorlie, Scotland. Gas-producer. No. 993,160; May 23; Sp. p. 4994; Gaz. vol. 166; p. 903.
Farnham, Reginald V., Skelmorlie, Scotland, Gas-producer. No. 996,628; July 4; Sp. p. 75; Gaz. vol. 168; p. 13.
Farnoff, Jay W., assignor of one-half to W. J. Reiman, Buffalo, N. Y. Demountable rim for wheels. No. 981,181; Jan. 10; Sp. p. 2288; Gaz. vol. 162; p. 378.
Farnoff, Jay W., assignor of one-half to W. J. Reiman, Buffalo, N. Y. Tire-fastener. No. 981,182; Jan. 10; Sp. p. 2290; Gaz. vol. 162; p. 378.
Farnoff, Jay W., assignor of one-half to W. J. Reiman, Buffalo, N. Y. Locking and shifting mechanism for demountable wheel-rims. No. 994,828; June 13; Sp. p. 1615; Gaz. vol. 167; p. 291.
Farnsworth, Frederick C., Brooklyn, N. Y. Steam-trap. No. 1,006,740; Oct. 24; Sp. p. 4791; Gaz. vol. 171; p. 852.
Farnsworth, Harold P., Owensboro, Ky. Automobile-tire. No. 981,627; Jan. 17; Sp. p. 3268; Gaz. vol. 162; p. 554.
Farnsworth, Hiland R., assignor to The Threading Machine Company, Sandusky, Ohio. Die-stock. No. 994,731; June 13; Sp. p. 1378; Gaz. vol. 167; p. 257.
Farnsworth, Willie W., Brushton, N. Y. Soldering apparatus. No. 1,005,010; Oct. 3; Sp. p. 967; Gaz. vol. 171; p. 161.
Farnsworth, Willis S., assignor to Coin Controlled Lock Co., Petaluma, Cal. Coin-controlled lock. No. 985,989; Mar. 7; Sp. p. 512; Gaz. vol. 164; p. 81.
Farnsworth, Willis S., and W. H. Reed, assignors to Coin Controlled Lock Co., Petaluma, Cal. Magazine-hinge and conveyer. No. 985,990; Mar. 7; Sp. p. 515; Gaz. vol. 164; p. 81.
Farnum, Charles A., Philadelphia, Pa. Sidewalk construction. No. 1,010,417; Dec. 5; Sp. p. 28; Gaz. vol. 173; p. 7.
Farquhar, Edmund H., Schenectady, N. Y., assignor to General Electric Company. Self-centering shaft-packing. No. 980,231; Jan. 3; Sp. p. 105; Gaz. vol. 162; p. 20.
Farquhar, Edmund H., Schenectady, N. Y., assignor to General Electric Company. Turbine-bucket. No. 1,003,892; Sept. 19; Sp. p. 3687; Gaz. vol. 170; p. 656.
Farquhar Furnace Company. (See Farquhar, Milton J., assignor.)
Farquhar, Milton J., assignor to Farquhar Furnace Company, Wilmington, Ohio. Electric seam-welding. No. 1,000,967; Aug. 15; Sp. p. 3764; Gaz. vol. 169; p. 672.
Farquharson, Charles W., Chicago, Ill. Force-feed carbureter. No. 1,011,931; Dec. 19; Sp. p. 3457; Gaz. vol. 173; p. 605.
Farrah, George A., Spencer, W. Va. Valve-opening device. No. 984,084; Feb. 14; Sp. p. 1819; Gaz. vol. 163; p. 313.
Farrah, Willaim, Gateway, Mont. Saw-filing device. No. 1,011,178; Dec. 12; Sp. p. 1756; Gaz. vol. 173; p. 306.
Farrar, John H. P., and A. Hecker, Newark, N. J. Interest-calculator. No. 991,204; May 2; Sp. p. 803; Gaz. vol. 166; p. 136.
Farrell, Arthur J., Pittsburgh, Pa. Adjusting mechanism for lamps for automobiles. No. 1,005,626; Oct. 10; Sp. p. 2333; Gaz. vol. 171; p. 401.
Farrell, George R. (See Snow and Farrell.)
Farrell, John J., South Ardmore, Pa. Machine for counting and packaging coins. No. 981,403; Jan. 10; Sp. p. 2810; Gaz. vol. 162; p. 455.
Farrell, Joseph E., Jr. (See Palmer, George C., assignor.)
Farrell, Lawrence J., assignor of one-half to G. Hosinger, Jersey City Heights, N. J. Fountain-pen. No. 999,440; Aug. 1; Sp. p. 487; Gaz. vol. 169; p. 85.
Farrell, Mansfield A., Raton, N. Mex. Pipe-coupling. No. 1,004,004; Sept. 26; Sp. p. 3992; Gaz. vol. 170; p. 722.
Farrell, Michael. (See Bernesser and Crotty, assignors.)
Farrelly, James P., Toronto, Ontario, Canada. Excavator. No. 994,380; June 6; Sp. p. 585; Gaz. vol. 167; p. 100.
Farrer, Charles S., Dunmore, Pa. Chute. No. 1,007,653; Oct. 31, Sp. p. 6814; Gaz. vol. 171; p. 1225.
Farrington, Charles O., and H. M. Hill, Dallas, Tex. Electric water-heater. No. 1,002,977; Sept. 12; Sp. p. 1774; Gaz. vol. 170; p. 307.
Farris, Elisha W., Rienzi, Miss. Book-holder. No. 1,007,345; Oct. 31; Sp. p. 6141; Gaz. vol. 171; p. 1120.
Farum, Elecie P., Santa Cruz, Cal. Aerial machine. No. 1,011,767; Dec. 12; Sp. p. 3068; Gaz. vol. 173; p. 513.
Fassett, Clayton M., Brookings, S. D. Conveyer for concrete-mixing machines. No. 998,763; July 25; Sp. p. 4734; Gaz. vol. 168; p. 856.
Fassett, Sherman A., and G. McCullough, Harris, Mo. Railway cross-tie. No. 999,766; Aug. 8; Sp. p. 1134; Gaz. vol. 169; p. 225.
Fassig, William H., St. Louis, Mo Combined insole and instep-supporter. No. 988,449; Apr. 4; Sp. p. 341; Gaz. vol. 165; p. 55.
Fassl, Aloys, Dinslaken, Germany. Rolling tubes. No. 988,634; Apr. 4; Sp. p. 745; Gaz. vol. 165; p. 119.
Fassl, Aloys, Wesel, Germany. Rolling-mill for rolling out hollow blocks. No. 988,868; Apr. 4; Sp. p. 1218; Gaz. vol. 165; p. 195.
Fast, August C., East Orange, N. J. Vegetable-peeler. No. 1,012,129; Dec. 19; Sp. p. 3911; Gaz. vol. 173; p. 676.
Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark. Pump. No. 991,708; May 9; Sp. p. 1911; Gaz. vol. 166; p. 344.
Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Rotary spiral sieve. No. 997,185; July 4; Sp. p. 1238; Gaz. vol. 168; p. 201.
Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Rotary kiln. No. 997,391; July 11; Sp. p. 1647; Gaz. vol. 168; p. 298.
Fate, John C., Collegeview, Nebr. Bridle-bit. No. 994,732; June 13; Sp. p. 1380; Gaz. vol. 167; p. 258.
Fate, John L., Chicago, Ill., assignor to American Insulating Company. Sealing means for vacuum-jackets. No. 988,324; Apr. 4; Sp. p. 62; Gaz. vol. 165; p. 13.
Fate, John L., Chicago, Ill., assignor to American Insulating Company. Metallic heat-insulating vessel. No. 992,414; May 16; Sp. p. 3421; Gaz. vol. 166; p. 615.
Fath, Philip, St. Louis, Mo. Rain-spout cut-off. No. 984,365; Feb. 14; Sp. p. 2405; Gaz. vol. 163; p. 407.
Faucher, Joseph J., Wichita, Kans. Broom-corn press. No. 983,128; Jan. 31; Sp. p. 6470; Gaz. vol. 162; p. 1125.
Faulke, John B., *et al.* (See Beers, Harry F., assignor.)
Faulkner, James M., Philadelphia, Pa. Safety device for elevators. No. 1,002,048; Aug. 29; Sp. p. 6098; Gaz. vol. 169; p. 1102.
Fauls, Andrew, Southport, Conn. Trap. No. 988,259; Mar. 28; Sp. p. 5308; Gaz. vol. 164; p. 939.
Faultless Machine & Manufacturing Company, The. (See Stiles and Yemiker, assignors.)
Fauntleroy, Thomas T., Staunton, Va. Electromagnetic sifter. No. 998,486; July 18; Sp. p. 4097; Gaz. vol. 168; p. 726.
Faupel, Charles F. (See Harrington, Albert L., assignor.)
Faure, Paul R. (See Doillet and Faure.)
Faure, Peter, Portersville, Cal. Pouring-spout. No. 980,768; Jan. 3; Sp. p. 1264; Gaz. vol. 162; p. 203.
Faussone, Martin, Ouray, Colo. Paper-cutter. No. 1,007,549; Oct. 31; Sp. p. 6594; Gaz. vol. 171; p. 1190.
Faust, Casper, Oshkosh, Wis. Safety-gate for bridges. No. 1,007,190; Oct. 31; Sp. p. 5833; Gaz. vol. 171; p. 1065.
Faust, Casper, Oshkosh, Wis. Cabinet. No. 1,009,141; Nov. 21; Sp. p. 3359; Gaz. vol. 172; p. 594.
Faust, William H., Chico, Cal. Cuspidor attachment for closets. No. 1,002,508; Sept. 5; Sp. p. 732; Gaz. vol. 170; p. 107.
Fauth, Frank, Washington, D. C. File-shelf. No. 999,974; Aug. 8; Sp. p. 1565; Gaz. vol. 169; p. 295.
Fautsch, Rochus, Chicago, Ill. Combined steering and propelling means for vehicles. No. 1,006,925; Oct. 24; Sp. p. 5227; Gaz. vol. 171; p. 919.
Favary, Ethelbert, New York, N. Y. Cushioning device. No. 981,404; Jan. 10; Sp. p. 2826; Gaz. vol. 162; p. 456.
Favary, Ethelbert, New York, N. Y., assignor to Favary Tire & Cushion Company. Cushioning device for tires. No. 981,253; Jan. 10; Sp. p. 2485; Gaz. vol. 162; p. 404.
Favary Tire & Cushion Company. (See Favary, Ethelbert, assignor.)
Favoret-Brenner-Gesellschaft mit beschränkter Haftung. (See Lentschat, Georg, assignor.)

Fawcett, Charlie M., and W. A. Mayfield, Bolivar, Tenn. Nut-lock. No. 989,493; Apr. 11; Sp. p. 2530; Gaz. vol. 165; p. 428.
Fawcett, David L., Leeds, England. Briqueting, pressing, or brickmaking machine. No. 1,004,399; Sept. 26; Sp. p. 4856; Gaz. vol. 170; p. 858.
Fawcett, Emmett E., assignor of one-half to C. Leiendecker, Lawrenceburg, Ind. Shaft-casing. No. 1,003,096; Sept. 12; Sp. p. 2019; Gaz. vol. 170; p. 347.
Fawcett, John F. W., Norfolk, Va. Burial-vault. No. 997,547; July 11; Sp. p. 1965; Gaz. vol. 168; p. 351.
Fawcett, William M., and G. L. Swabb, assignors to The Heisler Locomotive Works, Erie, Pa. Railway-truck. No. 994,252; June 6; Sp. p. 311; Gaz. vol. 167; p 54.
Fawcus, Thomas, Pittsburg, Pa. Locking device for levers. No. 990,852; May 2; Sp. p. 50; Gaz. vol. 166; p. 11.
Fawcus, Thomas, Pittsburg, and A. F. Cooke, Edgewood Park, Pa. Gear-cutting machine. No. 980,232; Jan. 3; Sp. p. 106; Gaz. vol. 162; p. 21.
Fawell, Joseph. (See Duncan and Fawell.)
Fawell, Joseph, Pittsburg, Pa. Manufacture of structural material. No. 996,008; June 20; Sp. p. 4151; Gaz. vol. 167; p. 723.
Fawkes, Frank G., Chicago, Ill. Document-file. No. 986,154; Mar. 7; Sp. p. 825; Gaz. vol. 164; p. 134.
Fawkes, George and J., Glasgow, Scotland. Hull of navigable vessels. No. 1,009,230; Nov. 21; Sp. p. 3588; Gaz. vol. 172; p. 627.
Fawkes International Rubber Company, The, *et al.* (See Knapp, Lee, assignor.)
Fawkes, John. (See Fawkes, George and J.)
Fawkes, Joseph W., Burbank, Cal. Centrifugal aeroplane. No. 998,683; July 25; Sp. p. 4540; Gaz. vol. 168; p. 827.
Fawkes, Wilbert C., assignor of one-half to C. W. Batterson, Portland, Oreg. Candy-pulling machine. No. 1,010,029; Nov. 28; Sp. p. 5279; Gaz. vol. 172; p. 946.
Fay, Alpheus, Louisville, Ky. Cream-separator and churn. No. 991,435; May 2; Sp. p. 1294; Gaz. vol. 166; p. 216.
Fay, Alpheus, Louisville, Ky. Cream-separator and churn. No. 996,916; July 4; Sp. p. 658; Gaz. vol. 168; p. 107.
Fay, Henry R., West Newton, Mass. Water-gage. No. 1,005,424; Oct. 10; Sp. p. 1861; Gaz. vol. 171; p. 329.
Fay, John L. (See Way and Fay.)
Fay Machine Tool Company. (See Schaum, Otto W., assignor.)
Fay, Norman H., assignor to Fay & Scott, Dexter, Me. Feeding blanks to rack-cutting machines. No. 1,001,008; Aug. 22; Sp. p. 3919; Gaz. vol. 169; p. 721.
Fay, Robert H., Chicopee Falls, Mass. Work-centering device for users of lathes. No. 994,581; June 6; Sp. p. 997; Gaz. vol. 167; p. 166.
Fay & Scott. (See Fay, Norman H., assignor.)
Fay, William, *et al.* (See Anderson, William, assignor.)
Feakes, Herbert E., Paterson, N. J. Device for teaching type-writing. No. 1,008,591; Nov. 14; Sp. p. 2183; Gaz. vol. 172; p. 372.
Feamster, Royden K., Salisbury, N. C. Automatic oil-cup. No. 990,245; Apr. 25; Sp. p. 4202; Gaz. vol. 165; p. 749.
Featherstone, John B. (See Northrup, Elmer C., assignor.)
Febiger, Henry B., assignor of one-sixteenth to L. Irwin, two-sixteenths to M. B. Griffin, two-sixteenths to H. H. Berlin, and five-sixteenths to J. C. Febiger, Jr., New Orleans, La. Firearm. No. 987,350; Mar. 21; Sp. p. 3360; Gaz. vol. 164; p. 603.
Febiger, John C., Jr., *et al.* (See Febiger, Henry B., assignor.)
Fechheimer, Carl J., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 982,806; Jan. 31; Sp. p. 5770; Gaz. vol. 162; p. 1016.
Fedders, John M., assignor to T. C. Fedders, Buffalo, N. Y. Tube-soldering machine. No. 985,151; Feb. 28; Sp. p. 4093; Gaz. vol. 163; p. 746.
Fedders, John M., assignor to T. C. Fedders, Buffalo, N. Y. Radiator. No. 988,699; Apr. 4; Sp. p. 870; Gaz. vol. 165; p. 140.
Fedders, John M., assignor to T. C. Fedders, Buffalo, N. Y. Radiator. No. 992,763; May 23; Sp. p. 4134; Gaz. vol. 166; p. 765.
Fedders, John M., assignor to T. C. Fedders, Buffalo, N. Y. Radiator. No. 993,354; May 30; Sp. p. 5408; Gaz. vol. 166; p. 998.
Fedders, John M., assignor to T. C. Fedders, Buffalo, N. Y. Radiator. No. 1,002,978; Sept. 12; Sp. p. 1775; Gaz. vol. 170; p. 307.
Fedders, Theodore C. (See Fedders, John M., assignor.)
Federal Electric Company. (See Blake, Robert S., assignor.)
Federal Electric Company. (See Goehst and Dunlap, assignors.)
Federal Electric Company. (See McDonald, Clarence T., assignor.)
Federal Electric Company. (See Murray and MacDougal, assignors.)
Federal Signal Company. (See Taylor, Herbert B., assignor.)
Federal Tool Company. (See Cress, Leonidas H., assignor.)
Federer, Berthold, Schmarse, assignor to Chemische Fabrik vorm. Goldenberg, Geromont & Cie., Winkel-on-the-Rhine, Germany. Manufacture and production of baking-powder. No. 980,936; Jan. 10; Sp. p. 1678; Gaz. vol. 162; p. 291.
Fee, Edward E., Rolla, N. D. Steering mechanism for traction-engines. No. 998,684; July 25; Sp. p. 4542; Gaz. vol. 168; p. 828.
Fee, Edwin S., Chicago, Ill. Building-block. No. 1,002,979; Sept. 12; Sp. p. 1777; Gaz. vol. 170; p. 308.
Fee, Francis J. (See Cuthbert, George, assignor.)
Feeley, Eugene J., Fairfield, Conn. Magnetic separator. No. 1,000,392; Aug. 15; Sp. p. 2511; Gaz. vol. 169; p. 470.
Feeney, James E., Monterey, Mexico. Car-wheel-flange lubricator. No. 998,487; July 18; Sp. p. 4099; Gaz. vol. 168; p. 726.
Fehr, William, and J. Kaufmann, assignors to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle. No. 997,283; July 11; Sp. p. 1444; Gaz. vol. 168; p. 266.
Fehrm, Hugo B., Dorchester, Mass. Safety stick-pin. No. 1,007,081; Oct. 31; Sp. p. 5571; Gaz. vol. 171; p. 1024.
Feibusch, Martin, Ronsdorf, Germany. Machine for affixing closure-strips, labels, or the like around boxes and similar objects. No. 1,010,030; Nov. 28; Sp. p. 5280; Gaz. vol. 172; p. 947.
Feicks, William, Bethlehem, Pa. Coke-oven. No. 1,011,932; Dec. 19; Sp. p. 3460; Gaz. vol. 173; p. 605.
Feicks, William, Bethlehem, Pa. Coke-oven or gas-furnace. No. 1,011,933; Dec. 19; Sp. p. 3461; Gaz. vol. 173; p. 606.
Feierabend, Helene, Stralsund, Germany, assignor to A. Wulff and P. von Jacobs, London, England. Garment. No. 1,005,109; Oct. 3; Sp. p. 1147; Gaz. vol. 171; p. 194.
Feig, Max and U., Bad Elster, Germany. Spring upholstery device. No. 1,008,895; Nov. 14; Sp. p. 2828; Gaz. vol. 172; p. 476.
Feig, Ulrich. (See Feig, Max and U.)
Feiner, Eugene J. (See Butcher, James M., assignor.)
Feiner, Eugene J. (See Hamann, Richard W., assignor.)
Feingold, Lipa, Edgewater, Colo. Hook and eye. No. 991,287; May 2; Sp. p. 988; Gaz. vol. 166; p. 167.
Feinstein, Felix, London, and J. W. Ewart, Wendover, England. Electric weighing apparatus. No. 994,733; June 13; Sp. p. 1381; Gaz. vol. 167; p. 258.
Feiring, Edward A., Plainfield, N. J. Cranking device for automobiles and other machinery. No. 1,007,654; Oct. 31; Sp. p. 6816; Gaz. vol. 171; p. 1225.
Feist, Charles R., Easton, Minn. Mail-bag catcher. No. 991,838; May 9; Sp. p. 2166; Gaz. vol. 166; p. 386.
Feist, Martin, Los Angeles, Cal. Means for affixing stamps or labels to bakers' products. No. 998,164; July 18; Sp. p. 3388; Gaz. vol. 168; p. 611.
Feist, Rose, *et al.* (See Wolever, Franklin H., assignor.)
Feist, Rosie. (See Wolever, Franklin H., assignor.)
Feja, Andrew, St. Louis, Mo. Trolley-pole support. No. 1,007,438; Oct. 31; Sp. p. 6345; Gaz. vol. 171; p. 1152.
Felbel, Jacob, New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 984,654; Feb. 21; Sp. p. 3053; Gaz. vol. 163; p. 541.
Felbel, Jacob, New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 989,591; Apr. 18; Sp. p. 2800; Gaz. vol. 165; p. 495.
Felbel, Jacob, New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 996,753; July 4; Sp. p. 303; Gaz. vol. 168; p. 53.
Felbel, Jacob, New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,010,418; Dec. 5; Sp. p. 29; Gaz. vol. 173; p. 7.
Felbinger, Frank, Milwaukee, Wis. Metallic packing. No. 999,767; Aug. 8; Sp. p. 1136; Gaz. vol. 169; p. 225.
Feld, Walther, Hönningen-on-the-Rhine, Germany. Apparatus for subjecting gases or vapors to the action of liquids. No. 983,037; Jan. 31; Sp. p. 6298; Gaz. vol. 162; p. 1094.
Feld, Walther, Hönningen-on-the-Rhine, Germany. Obtaining sulfur. No. 985,667; Feb. 28; Sp. p. 5219; Gaz. vol. 163; p. 922.
Feld, Walther, Linz, Germany. Making ammonium sulfate and sulfur from gas. No. 1,011,043; Dec. 5; Sp. p. 1399; Gaz. vol. 173; p. 223.
Feldkamp, Frederick A., Vailsburg, N. J., assignor to Electrolytic Products Co. Making one-piece radiator-sections. No. 997,610; July 11; Sp. p. 2098; Gaz. vol. 168; p. 374.
Feldkamp, Frederick A., Vailsburg, N. J., assignor to Electrolytic Products Co. Making one-piece radiator-sections. No. 997,768; July 11; Sp. p. 2469; Gaz. vol. 168; p. 431.
Feldkamp, Frederick A., Vailsburg, N. J., assignor to Electrolytic Products Co. Radiator and radiator-sections therefor. No. 1,008,592; Nov. 14; Sp. p. 2185; Gaz. vol. 172; p. 373.
Feldkamp, Frederick A., Vailsburg, N. J., assignor to Electrolytic Products Co. Shadower or insulator. No. 1,011,179; Dec. 12; Sp. p. 1757; Gaz. vol. 173; p. 307.

Alphabetical list of patentees—Continued.

Feldkamp, Frederick A., Union, N. J., assignor to Electrolytic Products Company. Radiator-section. No. 999,441; Aug. 1; Sp. p. 488; Gaz. vol. 169; p. 85.
Feldmeier, Harvey, assignor to D. H. Burrell & Company, Little Falls, N. Y. Centrifugal liquid-separator. No. 987,973; Mar. 28; Sp. p. 4748; Gaz. vol. 164; p. 847.
Feldner, George E., Bay City, Mich. Windmill. No. 981,077; Jan. 10; Sp. p. 2070; Gaz. vol. 162; p. 341.
Feldra, Robert, assignor to J. Hassloch, V. Swanson, and J. M. Oest, Jersey City, N. J. Match-box. No. 988,325; Apr. 4; Sp. p. 64; Gaz. vol. 165; p. 13.
Feldt, Ferdinand J., Peoria, Ill. Corrugated culvert. No. 989,343; Apr. 11; Sp. p. 2232; Gaz. vol. 165; p. 378.
Feldt, Ferdinand J., Peoria, Ill. Corrugated culvert. No. 996,708; July 4; Sp. p. 227; Gaz. vol. 168; p. 39.
Feldt, Ferdinand J., Peoria, Ill. Corrugated culvert. No. 1,001,378; Aug. 22; Sp. p. 4697; Gaz. vol. 169; p. 847.
Felger, Jonas M., Richmond, Va. Bottle-washing machine. No. 1,005,110; Oct. 3; Sp. p. 1147; Gaz. vol. 171; p. 194.
Felger, Louise R., Youngstown, Ohio. Cooking utensil. No. 982,044; Jan. 17; Sp. p. 4189; Gaz. vol. 162; p. 698.
Felker, Arthur. (See Felker, Charles W., assignor.)
Felker, Charles W., Argentine, Kans., assignor of one-half to A. Felker, Clarence, Mo. Lawn-mower. No. 1,000,393; Aug. 15; Sp. p. 2514; Gaz. vol. 169; p. 470.
Fell, Albert J., *et al.* (See Ruyle, Robert N., assignor.)
Fell, Byron M., Doylestown, Pa. Guard for dental grinding-tools. No. 994,829; June 13; Sp. p. 1617; Gaz. vol. 167; p. 291.
Fell, Edward L. (See Lee, Charles H., assignor.)
Fell, Edward L., Philadelphia, Pa. Printing. No. 987,351; Mar. 21; Sp. p. 3364; Gaz. vol. 164; p. 604.
Fell, Eugene H., Atlanta, Ga. Receipt-form. No. 993,769; May 30; Sp. p. 6333; Gaz. vol. 166; p. 1142.
Felland, Gunder G., Wilbur, Wash. Voting-machine. No. 993,671; May 30; Sp. p. 6121; Gaz. vol. 166; p. 1108.
Fellman, George J., and R. B. Shore, Pittsburgh, Pa. Ventilator for receptacles. No. 1,008,127; Nov. 7; Sp. p. 1028; Gaz. vol. 172; p. 167.
Fellows Direct Power Transmission Company. (See Fellows, Hugh W., assignor.)
Fellows, Edwin R., Springfield, Vt., assignor to Stone-Probst Axle Company, Columbus, Ohio. Gear-generating machine. No. 982,581; Jan. 24; Sp. p. 5295; Gaz. vol. 162; p. 913.
Fellows, Hugh W., assignor to Fellows Direct Power Transmission Company, Los Angeles, Cal. Intermittent-grip device. No. 1,005,182; Oct. 10; Sp. p. 1304; Gaz. vol. 171; p. 243.
Fellows, Hugh W., assignor to Fellows Direct Power Transmission Company, Los Angeles, Cal. Transmission mechanism. No. 1,005,183; Oct. 10; Sp. p. 1306; Gaz. vol. 171; p. 243.
Fellows, Hugh W., assignor to Fellows Direct Power Transmission Company, Los Angeles, Cal. Intermittent grip device. No. 1,012,535; Dec. 19; Sp. p. 4730; Gaz. vol. 173; p. 812.
Fellows, James E. (See Bonfield and Fellows.)
Fellows, Jerome B., Boston, Mass., assignor of one-half to C. F. Libby, Portland, Me. Lawn-sprinkler. No. 1,011,934; Dec. 19; Sp. p. 3462; Gaz. vol. 173; p. 606.
Fellows, Walter C., assignor to Keller Manufacturing Company, Philadelphia, Pa. Electrical attachment-plug. No. 1,009,659; Nov. 21; Sp. p. 4489; Gaz. vol. 172; p. 773.
Felsing, Samuel D., assignor of one-half to C. Loring, Crookston, Minn. Machine for cleaning and separating seed-grain. No. 995,853; June 20; Sp. p. 3855; Gaz. vol. 167; p. 670.
Felt, Charles E., Chicago, Ill. Bottle-washing machine. No. 993,672; May 30; Sp. p. 6128; Gaz. vol. 166; p. 1108.
Felt, Dorr E., Chicago, Ill. Key for keyboard calculating-machines. No. 982,416; Jan. 24; Sp. p. 4946; Gaz. vol. 162; p. 856.
Felt, Dorr E., Chicago, Ill. Key for keyboard-machines. No. 982,417; Jan. 24; Sp. p. 4948; Gaz. vol. 162; p. 856.
Felt, Dorr E., Chicago, Ill. Calculating-machine. No. 992,950; May 23; Sp. p. 4553; Gaz. vol. 166; p. 833.
Felt, Dorr E., Chicago, Ill. Calculating-machine. No. 996,009; June 20; Sp. p. 4156; Gaz. vol. 167; p. 723.
Felt, Dorr E., Chicago, Ill. Key-action for calculating-machines. No. 1,003,723; Sept. 19; Sp. p. 3359; Gaz. vol. 170; p. 600.
Felten & Guilleaume-Lahmeyerwerke Actien-Gesellschaft. (See Hoff, Max F. vom, assignor.)
Felten & Guilleaume-Lahmeyerwerke, Actien-Gesellschaft. (See Schmalzried, Eugen, assignor.)
Felters Company, The. (See Reynolds, George A., assignor.)
Felts, Orange O., New Albany, Ind., assignor to J. T. Towsley, Cincinnati, Ohio. Feed apparatus for jointing saws. No. 993,045; May 23; Sp. p. 4756; Gaz. vol. 166; p. 865.
Felver, Samuel, Coshocton, Ohio. Illuminated sign. No. 1,003,724; Sept. 19; Sp. p. 3361; Gaz. vol. 170; p. 600.
Fender, John B., Kaufman, Tex. Road-grader. No. 982,944; Jan. 31; Sp. p. 6086; Gaz. vol. 162; p. 1063.
Fendring, Helmer E., and W. D. Luther, Chouteau, Mont. Tubular mortise-lock. No. 984,366; Feb. 14; Sp. p. 2406; Gaz. vol. 163; p. 407.
Fenger, Sophus, Nakskov, Denmark. Preserving grease. No. 995,240; June 13; Sp. p. 2469; Gaz. vol. 167; p. 428.
Fenlason, Orin C., Hoquiam, Wash. Automatic machine for making foldable or collapsible berry-boxes. No. 1,008,632; Nov. 14; Sp. p. 2272; Gaz. vol. 172; p. 387.
Fenn, Otto A., New York, N. Y. Flying-machine. No. 997,122; July 4; Sp. p. 1102; Gaz. vol. 168; p. 179.
Fenn, Robert H., Suffern, N. Y. Calculating device. No. 980,867; Jan. 3; Sp. p. 1479; Gaz. vol. 162; p. 237.
Fennel, Jacob W., Newburgh, N. Y. Combined flush-tank and bowl. No. 1,009,231; Nov. 21; Sp. p. 3589; Gaz. vol. 172; p. 627.
Fenner, George P., New London, Conn. Printing-press. No. 983,698; Feb. 7; Sp. p. 957; Gaz. vol. 163; p. 151.
Fenton, James T., Salt Lake City, Utah. Game apparatus. No. 1,003,589; Sept. 19; Sp. p. 3062; Gaz. vol. 170; p. 552.
Fentzloff, Wilhelm, Frankfort-on-the-Main, Germany. Deflectometer. No. 997,980; July 18; Sp. p. 2974; Gaz. vol. 168; p. 546.
Feola, Raffaele, New York, N. Y. Lock. No. 997,769; July 11; Sp. p. 2473; Gaz. vol. 168; p. 431.
Ferbrache, Henry C., Bonners Ferry, Idaho. Oven thermometer and ventilator. No. 995,854; June 20; Sp. p. 3859; Gaz. vol. 167; p. 670.
Ferencik, Eugene, West Allis, Wis. Expansion-reamer. No. 1,000,503; Aug. 15; Sp. p. 2754; Gaz. vol. 169; p. 509.
Ferger, John C., Indianapolis, Ind. Draftsman's pen. No. 1,004,400; Sept. 26; Sp. p. 4858; Gaz. vol. 170; p. 858.
Fergus Falls Rotary Ice Plow Company. (See Babst and Fisch, assignors.)
Ferguson, Arthur C., Brooklyn, assignor of eleven-sixteenths to L. C. Smith, Syracuse, N. Y. Printing by sound. No. 999,975; Aug. 8; Sp. p. 1566; Gaz. vol. 169; p. 295.
Ferguson, Barrington, Fernie, British Columbia, Canada. Signal. No. 998,488; July 18; Sp. p. 4103; Gaz. vol. 168; p. 727.
Ferguson, Clayton B., Glenhazel, Pa. Rail-joint. No. 991,436; May 2; Sp. p. 1297; Gaz. vol. 166; p. 216.
Ferguson, Daniel, Whitbourne, Newfoundland. Hat-pin protector. No. 995,241; June 13; Sp. p. 2471; Gaz. vol. 167; p. 428.
Ferguson, E. S., *et al.* (See Pearson, Eliphalet L., assignor.)
Ferguson, Frank, Washington, Iowa. Hand-cart device. No. 981,988; Jan. 17; Sp. p. 4068; Gaz. vol. 162; p. 679.
Ferguson, Frank A., Belleville, Kans. Drive-gear for motor-cars. No. 998,764; July 25; Sp. p. 4737; Gaz. vol. 168; p. 857.
Ferguson, Frank A., Waterloo, Iowa. Hose-fastener for water-cocks. No. 1,012,345; Dec. 19; Sp. p. 4373; Gaz. vol. 173; p. 749.
Ferguson, Frank W., Kingman, Ariz. Rotary engine. No. 995,855; June 20; Sp. p. 3861; Gaz. vol. 167; p. 671.
Ferguson, George, Los Angeles, Cal. Hose-band. No. 993,444; May 30; Sp. p. 5607; Gaz. vol. 166; p. 1028.
Ferguson, George W., Springfield, Mo. Automatic photographic-printing machine. No. 1,000,247; Aug. 8; Sp. p. 2181; Gaz. vol. 169; p. 388.
Ferguson, H. B. (See Ferguson, Lewis M., assignor.)
Ferguson, John A., Denver, Colo. Concrete structure. No. 983,699; Feb. 7; Sp. p. 958; Gaz. vol. 163; p. 152.
Ferguson, Lewis M., assignor of one-half to H. B. Ferguson, Relief, Ky. Governor for spring-motors. No. 993,355; May 30; Sp. p. 5410; Gaz. vol. 166; p. 999.
Ferguson, Lewis R., Harvey, Ill. Honey-uncapping machine. No. 989,138; Apr. 11; Sp. p. 1775; Gaz. vol. 165; p. 309.
Ferguson, Mark, Pasadena, Cal. Electric-lamp changer. No. 987,562; Mar. 21; Sp. p. 3773; Gaz. vol. 164; p. 674.
Ferguson, Samuel, Schenectady, N. Y., assignor to General Electric Company. Vapor-rectifier system. No. 1,009,494; Nov. 21; Sp. p. 4187; Gaz. vol. 172; p. 721.
Ferguson, Thomas, Altrincham, assignor to himself, and The Leeds Forge Company Limited, Leeds, England. Train and like electric-lighting system. No. 1,004,005; Sept. 26; Sp. p. 3993; Gaz. vol. 170; p. 722.
Ferguson, William M., *et al.* (See Schuler, Joseph, assignor.)
Fergusson, Ella M., executrix. (See Fergusson, Henry A.)
Fergusson, Henry A., St. Louis, Mo. Hood for friction-saws. No. 992,490; May 16; Sp. p. 3573; Gaz. vol. 166; p. 641.
Fergusson, Henry A., deceased, Chicago, Ill.; E. M. Fergusson, Webster Groves, Mo., executrix. Friction cutting-machine. No. 1,004,539; Sept. 26; Sp. p. 5149; Gaz. vol. 170; p. 906.
Fergusson, Robert, Lestershire, N. Y. Vending-machine. No. 991,143; May 2; Sp. p. 667; Gaz. vol. 166; p. 114.
Fernald, Charles F., assignor to Kilgore Manufacturing Company, Boston, Mass. Clamping mechanism. No. 988,988; Apr. 11; Sp. p. 1468; Gaz. vol. 165; p. 258.
Fernald, Charles F., assignor to Star Brass Manufacturing Company, Boston, Mass. Gage-glass cock. No. 993,232; May 23; Sp. p. 5135; Gaz. vol. 166; p. 925.
Fernandez, Michael M., Los Angeles, Cal. Coupling. No. 1,011,422; Dec. 12; Sp. p. 2292; Gaz. vol. 173; p. 391.
Fernans, Anthony W., Biddeford, Me. Safety-pocket. No. 989,772; Apr. 18; Sp. p. 3167; Gaz. vol. 165; p. 556.

Alphabetical list of patentees—Continued.

Fernbach, Auguste, Paris, France. Treatment of lemon-juice. No. 981,405; Jan. 10; Sp. p. 2828; Gaz. vol. 162; p. 456.
Fernholtz, Emil, Los Angeles, Cal., assignor to The National Briquetting and Clay Working Machinery Company, Phoenix, Ariz. Mixer and drier for briquet materials. No. 994,991; June 13; Sp. p. 1977; Gaz. vol. 167; p. 346.
Fernstrum, John E., Menominee, Mich. Steam-boiler. No. 981,078; Jan. 10; Sp. p. 2071; Gaz. vol. 162; p. 341.
Feroci, Cesare, Rome, Italy. Elastic-hub wheel. No. 1,010,031; Nov. 28; Sp. p. 5285; Gaz. vol. 172; p. 947.
Ferrabee, James H., Jr., assignor to Gimson & Company (Leicester) Limited, Leicester, England. Machine for compressing the heels of boots and shoes. No. 1,006,072; Oct. 17; Sp. p. 3290; Gaz. vol. 171; p. 588.
Ferrall, John J., and E. Mackay, New York, N. Y., as signors to National Biscuit Company. Storage and display receptacle. No. 996,574; June 27; Sp. p. 5431; Gaz. vol. 167; p. 950.
Ferrall, Thomas L. (See Pritchard and Ferrall.)
Ferrall, Thomas L., Rochester, N. Y. Percolator. No. 1,009,142; Nov. 21; Sp. p. 3360; Gaz. vol. 172; p. 594.
Ferranti, Sebastian Z. de, Grindleford Bridge, England. Under-water vehicle. No. 981,546; Jan. 10; Sp. p. 3093; Gaz. vol. 162; p. 504.
Ferranti, Sebastian Z. de, Grindleford, near Sheffield, England. Spinning, doubling, and twisting machine. No. 986,699; Mar. 14; Sp. p. 1995; Gaz. vol. 164; p. 351.
Ferranti, Sebastian Z. de, Grindleford, near Sheffield, England. Turbine-driven automotor. (Reissue.) No. 13,217; Mar. 14; Sp. p. 2790; Gaz. vol. 164; p. 483.
Ferranti, Sebastian Z. de, Grindleford, England. Tire. No. 990,350; Apr. 25; Sp. p. 4439; Gaz. vol. 165; p. 785.
Ferranti, Sebastian Z. de, Grindleford, near Sheffield, England. Apparatus for spinning, doubling, and like operations. No. 997,770; July 11; Sp. p. 2476; Gaz. vol. 168; p. 432.
Ferranti, Sebastian Z. de, Grindleford, England. Spinning, twisting, and doubling machinery. (Reissue.) No. 13,276; July 25; Sp. p. 5638; Gaz. vol. 168; p. 1003.
Ferranti, Sebastian Z. de, Grindleford Bridge, near Sheffield, England. Combustion-turbine. No. 999,976; Aug. 8; Sp. p. 1569; Gaz. vol. 169; p. 296.
Ferranti, Sebastian Z. de, Hampstead, London, England. Propulsion apparatus for ships, boats, and the like. No. 996,324; June 27; Sp. p. 4902; Gaz. vol. 167; p. 865.
Ferrara, Francesco, Boston, Mass. Adjustable window-shade roll and holder therefor. No. 1,005,184; Oct. 10; Sp. p. 1309; Gaz. vol. 171; p. 243.
Ferrari, Carlo, and C. Gallo, Turin, Italy. Medical radiator for use in beds. No. 981,628; Jan. 17; Sp. p. 3268; Gaz. vol. 162; p. 555.
Ferrari, Carlo, and M. Pizzuti, Naples, Italy. Apparatus for shortening electric waves. No. 1,000,248; Aug. 8; Sp. p. 2184; Gaz. vol. 169; p. 389.
Ferree, Harold, San Francisco, Cal. Metal reinforcement for building purposes. No. 988,326; Apr. 4; Sp. p. 64; Gaz. vol. 165; p. 13.
Ferrer, Ysidoro, New York, N. Y. Coaling apparatus. No. 990,969; May 2; Sp. p. 303; Gaz. vol. 166; p. 52.
Ferres, Jeffrey T., Anderson, Ind. Corner-fastener for plate-glass. No. 984,267; Feb. 14; Sp. p. 2219; Gaz. vol. 163; p. 375.
Ferri, Lodovico C. F., Paris, France. Curve-scriber. No. 1,004,157; Sept. 26; Sp. p. 4391; Gaz. vol. 170; p. 777.
Ferrier, George F. (See Kraber and Ferrier.)
Ferris, Edgar S. (See Hinds and Ferris.)
Ferris, Henry, Ardoch, N. D. Hand shocking device. No. 983,038; Jan. 31; Sp. p. 6300; Gaz. vol. 162; p. 1095.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Track and means for supporting same. No. 983,615; Feb. 7; Sp. p. 775; Gaz. vol. 163; p. 123.
Ferris, Henry L., Harvard, Ill., assignor to Hunt, Helm, Ferris & Company. Animal-stall. No. 988,561; Apr. 4; Sp. p. 577; Gaz. vol. 165; p. 93.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Overhead switch. No. 989,899; Apr. 18; Sp. p. 3438; Gaz. vol. 165; p. 599.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Track for door-hangers. No. 994,448; June 6; Sp. p. 712; Gaz. vol. 167; p. 122.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Stanchion. No. 994,364; Aug. 1; Sp. p. 342; Gaz. vol. 169; p. 60.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Overhead track. No. 1,003,097; Sept. 12; Sp. p. 2021; Gaz. vol. 170; p. 347.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Swinging track and boom for litter-carriers and the like. No. 1,006,837; Oct. 24; Sp. p. 5041; Gaz. vol. 171; p. 889.
Ferris, Henry L., assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Stop device for carriers. No. 1,007,934; Nov. 7; Sp. p. 650; Gaz. vol. 172; p. 101.
Ferris, Henry L. and H. J., assignors to Hunt, Helm, Ferris & Company, Harvard, Ill. Feed and litter carrier. No. 983,614; Feb. 7; Sp. p. 774; Gaz. vol. 163; p. 122.
Ferris, Howard J. (See Ferris, Henry L. and H. J.)
Ferris, Walter, assignor to The Bucyrus Company, South Milwaukee, Wis. Turn-table mechanism for railway pile-drivers and the like. No. 982,418; Jan. 24; Sp. p. 4949; Gaz. vol. 162; p. 856.
Ferris, Walter, South Milwaukee, Wis., and P. R. Parker, San Francisco, Cal., assignors to The Bucyrus Company, South Milwaukee, Wis. Dredge. No. 997,247; July 4; Sp. p. 1360; Gaz. vol. 168; p. 223.
Ferriss, Edward, Napoleon, N. D. Floating reaper. No. 981,183; Jan. 10; Sp. p. 2292; Gaz. vol. 162; p. 376.
Ferro-Concrete Construction Company, The. (See Anderson, Robert, assignor.)
Ferruggiari, Cesar, Fort Worth, Tex. Safety-catch for breastpins, &c. No. 1,003,725; Sept. 19; Sp. p. 3362; Gaz. vol. 170; p. 601.
Ferry, Gilbert E., Omaha, Nebr. Extension window-screen frame. No. 1,001,009; Aug. 22; Sp. p. 3920; Gaz. vol. 169; p. 721.
Ferry, James F., Delta, Colo. Hydrant. No. 987,290; Mar. 21; Sp. p. 3236; Gaz. vol. 164; p. 584.
Ferry, James F., Leadville, assignor of one-half to C. Harding, Denver, Colo. Liquor-tapping device. No. 1,004,638; Oct. 3; Sp. p. 190; Gaz. vol. 171; p. 34.
Ferry, Thomas, Wilmington, Del. Brush. No. 1,006,741; Oct. 24; Sp. p. 4796; Gaz. vol. 171; p. 853.
Féry, Charles, Paris, France. Spectroscope-prism with curved surfaces. No. 1,007,346; Oct. 31; Sp. p. 6143; Gaz. vol. 171; p. 1120.
Fesler, Joel B., New York, N. Y. Fountain-brush. No. 1,006,641; Oct. 24; Sp. p. 4600; Gaz. vol. 171; p. 820.
Fesler, Milton A., San Francisco, Cal. Oil-burner. No. 997,981; July 18; Sp. p. 2976; Gaz. vol. 168; p. 546.
Fess, Samuel E., North Star, Ohio. Wrench. No. 991,288; May 2; Sp. p. 990; Gaz. vol. 166; p. 167.
Fessenden and Company. (See Parkin, Winfred T., assignor.)
Fessenden, Reginald A., Washington, D. C. Multiplex telegraphy. No. 981,406; Jan. 10; Sp. p. 2829; Gaz. vol. 162; p. 456.
Fessenden, Reginald A., Washington, D. C., assignor to National Electric Signaling Company, Pittsburg, Pa. Signaling by electromagnetic waves. No. 998,567; July 18; Sp. p. 4262; Gaz. vol. 168; p. 754.
Fessenden, Reginald A., Washington, D. C., assignor to The National Electric Signaling Company, Pittsburg, Pa. Receiver for signaling. No. 1,002,050; Aug. 29; Sp. p. 6102; Gaz. vol. 169; p. 1103.
Fessenden, Reginald A., Washington, D. C., assignor to National Electric Signaling Company, Pittsburg, Pa. Signaling by electromagnetic waves. No. 1,002,051; Aug. 29; Sp. p. 6105; Gaz. vol. 169; p. 1103.
Fessenden, Reginald A., Washington, D. C., assignor to The National Electric Signaling Company, Pittsburg, Pa. Determining position of vessels. No. 1,002,141; Aug. 29; Sp. p. 6259; Gaz. vol. 169; p. 1132.
Fessenden, Reginald A., Fortress Monroe, Va., assignor to The National Electric Signaling Company, Pittsburg, Pa. Signaling by electromagnetic waves. No. 1,002,049; Aug. 29; Sp. p. 6101; Gaz. vol. 169; p. 1102.
Fessenden, Reginald A., Brant Rock, Mass., assignor to National Electric Signaling Company, Pittsburg Pa. Electrical signaling. No. 1,002,052; Aug. 29; Sp. p. 6106; Gaz. vol. 169; p. 1103.
Fessia, Charles, assignor of one-third to B. Vercelli and one-third to J. Molino, Hurley, Wis. Music-winding mechanism. No. 996,071; June 27; Sp. p. 4301; Gaz. vol. 167; p. 780.
Fest, William P., Jr., Buffalo, N. Y. Steering-wheel for autovehicles. No. 1,002,663; Sept. 5; Sp. p. 1065; Gaz. vol. 170; p. 160.
Festa, Antonio, Hamden, Conn. Smoke-bell support. No. 994,449; June 6; Sp. p. 713; Gaz. vol. 167; p. 122.
Fetch, Sheridan R. (See Linden, Charles A., assignor.)
Fetherston, John T., assignor of one-half to Power Specialty Company, New York, N. Y. Grate for destructor-furnaces. No. 1,001,010; Aug. 22; Sp. p. 3923; Gaz. vol. 169; p. 722.
Fetter, Frank E., Reading, Pa. Railway-tie. No. 992,415; May 16; Sp. p. 3422; Gaz. vol. 166; p. 616.
Fetterman, John L., Ittabena, Miss. Seasoning wood. No. 990,246; Apr. 25; Sp. p. 4205; Gaz. vol. 165; p. 750.
Fetters, Irvin, Findlay, Ohio. Corn-harvester. No. 982,582; Jan. 24; Sp. p. 5297; Gaz. vol. 162; p. 913.
Fetzer, John, assignor of forty one-hundredths to J. J. Gerlach, Jr., Pittsburgh, Pa. Centrifugal separator for gases. No. 1,004,760; Oct. 3; Sp. p. 462; Gaz. vol. 171; p. 76.
Fetzer, Louis W. (See Kraft and Fetzer.)
Feugueur, Albert H., Paris, France. Horn for cycles, motor-cars, and the like. No. 993,233; May 23; Sp. p. 5137; Gaz. vol. 166; p. 925.
Feuillet, Louis V., Paris, France. Dirigible balloon. No. 982,356; Jan. 24; Sp. p. 4823; Gaz. vol. 162; p. 835.
Fey, John W., Shreveport, La. Rail-joint. No. 980,233; Jan. 3; Sp. p. 109; Gaz. vol. 162; p. 21.
Fey, Joseph B., Columbus, Ohio. Electrical heater. No. 989,900; Apr. 18; Sp. p. 3442; Gaz. vol. 165; p. 600.
Fey, Louis, Cincinnati, Ohio. Broiler or waffle-baker. No. 1,004,401; Sept. 26; Sp. p. 4860; Gaz. vol. 170; p. 859.

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Feyk, Anton, and F. Drda, Long Island City, assignors to Holub-Dusha Company, New York, N. Y. Button-blank-cutting machine. No. 983,814; Feb. 7; Sp. p. 1180; Gaz. vol. 163; p. 190.
Fiala, Josef R., Omaha, Nebr. Propeller. No. 999,768; Aug. 8; Sp. p. 1137; Gaz. vol. 169; p. 225.
Fiber Barrel Machinery and Manufacturing Company. (See Herr, Henry C., assignor.)
Fiber Products Company. (See Wells and Reynolds, assignors.)
Fibre Products Company. (See Reynolds, Charles R., assignor.)
Fichtmueller, Julius A. C., New York, assignor to Diamond Decorative Leaf Company, Brooklyn, N. Y. Decorative leaf. No. 984,805; Feb. 21; Sp. p. 3372; Gaz. vol. 163; p. 595.
Fidel Ganahl Lumber Company. (See Karches, Fred W., assignor.)
Fiebach, Frank A. R., H. C., and O. L., Lakemills, Wis. Loader for corn-binders. No. 985,991; Mar. 7; Sp. p. 512; Gaz. vol. 164; p. 82.
Fiebach, Frank A. R., H. C., and O. L., Lakemills, Wis. Loader for corn-harvesters. No. 985,992; Mar. 7; Sp. p. 518; Gaz. vol. 164; p. 82.
Fiebach, Henry C. (See Fiebach, Frank A. R., H. C., and O. L.)
Fiebach, Otto L. (See Fiebach, Frank A. R., H. C., and O. L.)
Fiebig, Adolph, *et al.* (See Hornquist, Frank, assignor.)
Field, Allan B. (See Behrend and Field.)
Field, Charles W., Freeport, Me. Shingling-gage. No. 986,625; Mar. 14; Sp. p. 1838; Gaz. vol. 164; p. 326.
Field, Charles W., Freeport, Me. Nailing-tool. No. 1,001,011; Aug. 22; Sp. p. 3925; Gaz. vol. 169; p. 722.
Field Force Pump Company. (See Schoelles, John F., assignor.)
Field, Frank O. (See McCabe and Field.)
Field, George E., Comstock, N. Y., assignor of one-half to Atlantic, Gulf and Pacific Company. Apparatus for excavating and transporting soil and similar substances. No. 987,352; Mar. 21; Sp. p. 3367; Gaz. vol. 164; p. 604.
Field, John E., Gains, Mich. Insulator-protector. No. 983,039; Jan. 31; Sp. p. 6302; Gaz. vol. 162; p. 1095.
Field, Louise D., *et al.* (See Stipe, Robert and W., assignors.)
Field, Walter T., Hinsdale, Ill. Card-index file. No. 980,234; Jan. 3; Sp. p. 110; Gaz. vol. 162; p. 22.
Field, William A., Chicago, Ill. Squeegee-head. No. 999,442; Aug. 1; Sp. p. 491; Gaz. vol. 169; p. 86.
Fielden, Frank, River View, New Ferry, England. Gas-producer. No. 992,491; May 16; Sp. p. 3576; Gaz. vol. 166; p. 641.
Fieldes, George W. and J., Clendenin, W. Va. Monkey-wrench. No. 994,070; May 30; Sp. p. 6920; Gaz. vol. 166; p. 1243.
Fieldes, Joseph. (See Fieldes, George W. and J.)
Fielding, George T., Jr., New York, N. Y. Advertising medium. No. 1,010,245; Nov. 28; Sp. p. 5698; Gaz. vol. 172; p. 1018.
Fielding, James W., Day, Fla. Peanut-picker. No. 985,575; Feb. 28; Sp. p. 5044; Gaz. vol. 163; p. 892.
Fielding, John, Gloucester, England. Working updraft gas-producers. No. 986,374; Mar. 7; Sp. p. 1298; Gaz. vol. 164; p. 210.
Fielding, John, Gloucester, England. Manufacturing headers for water-tube boilers and the like. No. 993,974; May 30; Sp. p. 6724; Gaz. vol. 166; p. 1210.
Fields, Charles L., Rochester, Ind. Telephone attachment. No. 987,563; Mar. 21; Sp. p. 3775; Gaz. vol. 164; p. 674.
Fields, Hannibal D., Loughman, Fla. Machine for refacing band-saw wheels. No. 1,003,350; Sept. 12; Sp. p. 2550; Gaz. vol. 170; p. 439.
Fields, William T., Atlantic City, N. J. Perambulator. No. 1,011,935; Dec. 19; Sp. p. 3464; Gaz. vol. 173; p. 606.
Fieroe, Walter H., Atlantic City, N. J. Power-wheel. No. 985,152; Feb. 28; Sp. p 4097; Gaz. vol. 163; p. 746.
Fieseler, Edward E., assignor of one-half to A. E. Martak, Eastport, Md. Electric water-level indicator. No. 1,005,111; Oct. 3; Sp. p. 1152; Gaz. vol. 171; p. 194.
Fietsch, Herman, Jr. (See Martin and Fietsch.)
Fifield, Frederic A., assignor to Eastman Kodak Company, Rochester, N. Y. Screen or film support for use in photography. No. 990,247; Apr. 25; Sp. p. 4207; Gaz. vol. 165; p. 750.
Fifield, William A., Minot, N. D. Windmill-governor. No. 984,755; Feb. 21; Sp. p. 3272; Gaz. vol 163; p. 577.
Filsinger, John A., assignor to The Pneumelectric Machine Company, Syracuse, N. Y. Lubricating system for gearing. No. 1,004,762; Oct. 3; Sp. p. 466; Gaz. vol. 171; p. 77.
Filson, Charles P., Steubenville, Ohio, assignor to James H. Smith & Sons Company, Chicago, Ill. Flashlight apparatus. No. 995,447; June 20; Sp. p. 2946; Gaz. vol. 167; p. 526.
Figee, Johannes H., *et al.* (See Ter Weer, Garhardus L., assignor.)
Figge, Louie H., Los Angeles, Cal. Multiple-plug socket. No. 991,289; May 2; Sp. p. 991; Gaz. vol. 166; p. 167.
Figuers, Thomas N., Jr., Columbia, Tenn. Display-rack. No. 1,003,893; Sept. 19; Sp. p. 3689; Gaz. vol. 170; p. 656.
Filbert, John H., Baltimore, Md. Making fatty food compounds. No. 995,777; June 20; Sp. p. 3690; Gaz. vol. 167; p. 642.
Filer & Stowell Company, The. (See Pelton, George M., assignor.)
Files, True H., Everett, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making boots and shoes. No. 990,248; Apr. 25; Sp. p. 4208; Gaz. vol. 165; p. 750.
Filiasi, Francesco, Naples, Italy. Device for keeping afloat aeroplanes. No. 1,004,761; Oct. 3; Sp. p. 464; Gaz. vol. 171; p. 76.
Filimonesk, Joe, East Chicago, Ind. Icecycle. No. 1,001,379; Aug. 22; Sp. p. 4698; Gaz. vol. 169; p. 847.
Filion, Joseph, Montreal, Quebec, Canada. Car-vestibule trap. No. 993,445; May 30; Sp. p. 5608; Gaz. vol. 166; p. 1028.
Filipowski, Wladyslaw, Hawthorne, Ill. Fishing device. No. 999,214; Aug. 1; Sp. p. 44; Gaz. vol. 169; p. 10.
Fillingham, Myles P., Ansonia, assignor to Birmingham Iron Foundry, Derby, Conn. Vulcanizing-press. No. 1,004,864; Oct. 3; Sp. p. 689; Gaz. vol. 171; p. 112.
Filloon, Lewis F., Cedar Rapids, Iowa, assignor to The Clefton Company, Owatonna, Minn. Acetylene-gas generator. No. 987,055; Mar. 14; Sp. p. 2714; Gaz. vol. 164; p. 469.
Finan, John F., Cumberland, Md. Automatic elevator-gate. No. 989,957; Apr. 18; Sp. p. 3573; Gaz. vol. 165; p. 620.
Finch, Frederick W., Dartford, England. Apparatus for catching flies and other insects. No. 987,708; Mar. 28; Sp. p. 4122; Gaz. vol. 164; p. 754.
Finch, Herbert I. (See Meston and Finch.)
Finch, James H., Jr., West Roxbury, Mass. Trolley device. No. 1,009,059; Nov. 21; Sp. p. 3199; Gaz. vol. 172; p. 566.
Finch, John W., Bentonia, Miss. Wagon-brake. No. 980,621; Jan. 3; Sp. p. 952; Gaz. vol. 162; p. 155.
Finch, John W., assignor of one-half to J. L. Sibley, Bentonia, Miss. Clothes-clamp. No. 991,290; May 2; Sp. p. 992; Gaz. vol. 166; p. 167.
Finch, Leigh L., New York, N. Y. Cigarette-former. No. 1,006,541; Oct. 24; Sp. p. 4393; Gaz. vol. 171; p. 785.
Findley, Matthew R., New Concord, Ohio. Wire-fence nail. No. 987,709; Mar. 28; Sp. p. 4124; Gaz. vol. 164; p. 755.
Finerty, Henry J., Montreal, Quebec, Canada. Umbrella. No. 995,124; June 13; Sp. p. 2241; Gaz. vol. 167; p. 390.
Fingarlos, Frank E., Buffalo, N. Y. Horse-controller. No. 1,010,485; Dec. 5; Sp. p. 188; Gaz. vol. 173; p. 31.
Finigan, Benjamin P., Washington, D. C., assignor to Union Typewriter Company, Jersey City, N. J. Typewriting machine. No. 989,592; Apr. 18; Sp. p. 2802; Gaz. vol. 165; p. 495.
Fink, Charles F., Fredericktown, Ohio. Follower for suit-cases, trunks, and the like. No. 1,003,134; Sept. 12; Sp. p. 2093; Gaz. vol. 170; p. 360.
Fink, Clyde W., Kansas City, Mo. Water-tower. No. 1,009,293; Nov. 21; Sp. p. 3730; Gaz. vol. 172; p. 649.
Fink, Colin G., Schenectady, N. Y., assignor to General Electric Company. Fractional distillation of metals. No. 996,474; June 27; Sp. p. 5233; Gaz. vol. 167; p. 918.
Fink, Edward, Niles, Mich. Milk-pail. No. 1,003,726; Sept. 19; Sp. p. 3364; Gaz. vol. 170; p. 601.
Fink, James, *et al.* (See Bell and McKiel, assignors.)
Fink, John F., and S. T. Hill, Chicago, Ill. Superheater. No. 998,489; July 18; Sp. p. 4104; Gaz. vol. 168; p. 727.
Fink, Pius M., Miami, Okla. Axle. No. 1,008,317; Nov. 14; Sp. p. 1500; Gaz. vol. 172; p. 275.
Finkbeiner, Charles, Denver, Colo. Placer-mining apparatus. No. 986,626; Mar. 14; Sp. p. 1839; Gaz. vol. 164; p. 326.
Finkelstein, Alexander, Chicago, Ill. Automobile sleigh. No. 1,008,409; Nov. 14; Sp. p. 1763; Gaz. vol. 172; p. 307.
Finkelstein, Morris F., New York, N. Y. Light-fixture. No. 986,274; Mar. 7; Sp. p. 1081; Gaz. vol. 164; p. 173.
Finkenbinder, William H. (See Failor, William H., assignor.)
Finley, Jefferson L., Dallas, Tex. Combined railway-tie and rail-clamp. No. 980,235; Jan. 3; Sp. p. 111; Gaz. vol. 162; p. 22.
Finley, Jesse T., Rule, Tex. Acetylene-gas generator. No. 995,242; June 13; Sp. p. 2472; Gaz. vol. 167; p. 428.
Finley, Samuel. (See Rauber and Finley.)
Finley, Thomas L. (See Johnston, Thomas A., assignor.)
Finn and Meyers. (See Meyers and Elliott, assignors.)
Finnegan, Peter P. (See Froeckman, William A., assignor.)
Finnell, Walter S. (See Jenkins, Thomas R., Jr., assignor.)
Finnigan, John J., Atlanta, Ga. Tube-setting. No. 998,886; July 25; Sp. p. 5017; Gaz. vol. 168; p. 900.
Finsel, Andrew, El Mora, N. J. Overshoe for horses. No. 994,253; June 6; Sp. p. 314; Gaz. vol. 167; p. 54.

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Finzel, Herman, Pasadena, Cal. Continuous-spray pump. No. 991,291; May 2; Sp. p. 993; Gaz. vol. 166; p. 168.
Fire and Gas Appliances Company. (See Sieben, Henry, assignor.) (Reissue.)
Fireball Gas Tank & Illuminating Company. (See Lukens, Clarence D., assignor.)
Firebaugh, Fred F., Gracemont, Okla. Cotton-chopper. No. 988,450; Apr. 4; Sp. p. 343; Gaz. vol. 165; p. 55.
Fireman, Peter, Washington, D. C. Polishing. No. 1,006,375; Oct. 17; Sp. p. 3989; Gaz. vol. 171; p. 695.
Fireproof Film Company. (See Thornton, John E., assignor.)
Firestone, Rose N., Anthony, Kans. Skirt-measurer. No. 1,000,792; Aug. 15; Sp. p. 3408; Gaz. vol. 169; p. 612.
Firman, Henry S., deceased, San Diego, Cal.; W. S. Firman, administrator. Obtaining potash salts from seaweed. No. 1,010,403; Nov. 28; Sp. p. 6037; Gaz. vol. 172; p. 1069.
Firman, John A., *et al.* (See Smith, Walton D., assignor.)
Firman, William S., admistrator. (See Firman, Henry S.)
Firnhaber, Edward, Janesville, Minn. Animal-trap. No. 1,010,486; Dec. 5; Sp. p. 189; Gaz. vol. 173; p. 31.
First Trust and Savings Bank, trustee. (See Erickson, John, assignor.)
Firus, Gustaf, Detroit, Mich. Device for swinging scaffolds. No. 982,663; Jan. 24; Sp. p. 5454; Gaz. vol. 162; p. 941.
Fisch, James H. (See Babst and Fisch.)
Fischer, Adolph, La Fayette, Ind. Brush and mop holder. No. 986,155; Mar. 7; Sp. p. 826; Gaz. vol. 164; p. 134.
Fischer, Alex, Kensington, London, England. Sound-box for talking-machines. No. 989,139; Apr. 11; Sp. p. 1778; Gaz. vol. 165; p. 309.
Fischer, Carl, Koblenz, Germany. Sash-window. No. 983,434; Feb. 7; Sp. p. 372; Gaz. vol. 163; p. 62.
Fischer, Charles, Brooklyn, N. Y. Collar for coats. No. 985,668; Feb. 28; Sp. p. 5224; Gaz. vol. 163; p. 922.
Fischer, Charles A., Chicago, Ill., assignor to Allis-Chalmers Company, Milwaukee, Wis. Furnace-jacket. No. 1,012,831; Dec. 26; Sp. p. 5412; Gaz. vol. 173; p. 960.
Fischer, Charles W., Sparks, Nebr. Insect-trap. No. 1,008,250; Nov. 7; Sp. p. 1298; Gaz. vol. 172; p. 212.
Fischer, Franz, Berlin, Germany. Manufacture of ductile electrolytic iron. No. 992,951; May 23; Sp. p. 4564; Gaz. vol. 166; p. 833.
Fischer, Franz, Charlottenburg, Germany. Manufacture of ductile electrolytic iron. No. 992,952; May. 23; Sp. p. 4566; Gaz. vol. 166; p. 833.
Fischer, Friedrich B., Dresden, Germany. Belt-gearing. No. 994,507; June 6; Sp. p. 833; Gaz. vol. 167; p. 140.
Fischer, Friedrich C., Philadelphia, Pa. Commutator. No. 984,655; Feb. 21; Sp. p. 3058; Gaz. vol. 163; p. 541.
Fischer, Friedrich C., Philadelphia, Pa. Means for repairing commutators. No. 992,865; May 23; Sp. p. 4368; Gaz. vol. 166; p. 802.
Fischer, Fritz, Jr., San Antonio, Tex. Hoisting apparatus. No. 987,455; Mar. 21; Sp. p. 3591; Gaz. vol. 164; p. 639.
Fischer, Georg H., Neustadt-on-the-Hardt, Germany. Painting apparatus. No. 991,709; May 9; Sp. p. 1912; Gaz. vol. 166; p. 344.
Fischer, Henry, Paterson, N. J. Mail catching and delivering apparatus. No. 988,260; Mar. 28; Sp. p. 5309; Gaz. vol. 164; p. 940.
Fischer, Hieronymus, New York, N. Y. Foot glove-brace. No. 982,664; Jan. 24; Sp. p. 5455; Gaz. vol. 162; p. 941.
Fischer, John B., Chicago, Ill. Vehicle-tire. No. 1,000,165; Aug. 8; Sp. p. 2011; Gaz. vol. 169; p. 360.
Fischer, Joseph B., Chicago, Ill. Straightening tubes and rods. No. 981,407; Jan. 10; Sp. p. 2832; Gaz. vol. 162; p. 457.
Fischer, Joseph H., E. G. Luening, and A. W. Collins, Milwaukee, Wis. Electrolyzing apparatus. No. 1,004,249; Sept. 26; Sp. p. 4571; Gaz. vol. 170; p. 808.
Fischer, Louis, New York, N. Y., assignor to Wrights Automatic Tobacco Packing Machine Company, Lynchburg, Va. Labeling and stamping machine. No. 990,532; Apr. 25; Sp. p. 4874; Gaz. vol. 165; p. 850.
Fischer, Max, New York, N. Y., assignor to Acme Steel Goods Company, Chicago, Ill. Making corrugated saw-toothed metal fasteners. No. 985,737; Feb. 28; Sp. p. 5404; Gaz. vol. 163; p. 947.
Fischer, Max, New York, N. Y., assignor to Acme Steel Goods Company, Chicago, Ill. Machine for making corrugated saw-toothed metal fasteners. No. 1,006,838; Oct. 24; Sp. p. 5044; Gaz. vol. 171; p. 889.
Fischer, Paul. (See Thomaschewski, Raeder, Mieg, and Fischer.) (Reissue.)
Fischer and Pruefer. (See Fischer, Sigmund, assignor.)
Fischer and Pruefer. (See Potter, James E., assignor.)
Fischer, Sigmund, assignor to Fischer and Pruefer, Providence, R. I. Forming joint members for pins. No. 1,006,472; Oct. 24; Sp. p. 4209; Gaz. vol. 171; p. 758.
Fischler, Bernard, Brooklyn, N. Y. Dentist's soldering-tool. No. 1,011,597; Dec. 12; Sp. p. 2726; Gaz. vol. 173; p. 457.
Fischrupp, George, Chicago, Ill. Folding bed. No. 1,012,536; Dec. 19; Sp. p. 4732; Gaz. vol. 173; p. 813.
Fischrupp, George, Chicago, Ill. Sofa-bed. No. 1,012,537; Dec. 19; Sp. p. 4733; Gaz. vol. 173; p. 813.
Fiset, Louis A. (See Fiset, Michel F., Jr., and L. A.)
Fiset, Michel F., Jr., and L. A., Albany, N. Y. Tire. No. 1,005,627; Oct. 10; Sp. p. 2334; Gaz. vol. 171; p. 401.
Fish, Edwin A., New London, Conn. Indicator and register for marine vessels. No. 1,008,457; Nov. 14; Sp. p. 1895; Gaz. vol. 172; p. 324.
Fish, George W., Kalamazoo, Mich. Miter-box. No. 999,769; Aug. 8; Sp. p. 1138; Gaz. vol. 169; p. 226.
Fish, George W., Kalamazoo, Mich. Miter-box. No. 1,002,980; Sept. 12; Sp. p. 1778; Gaz. vol. 170; p. 308.
Fish, Harold, Stratford, Conn. Tool-holder. No. 996,709; July 4; Sp. p. 228; Gaz. vol. 168; p. 39.
Fish, Harold, Stratford, Conn. Volt and ammeter. No. 999,977; Aug. 8; Sp. p. 1572; Gaz. vol. 169; p. 296.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault. No. 997,771; July 11; Sp. p. 2480; Gaz. vol. 168; p. 432.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Compound safe or vault door. No. 997,772; July 11; Sp. p. 2487; Gaz. vol. 168; p. 433.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Compound door for safes and vaults. No. 997,773; July 11; Sp. p. 2491; Gaz. vol. 168; p. 433.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Compound safe or vault door. No. 997,774; July 11; Sp. p. 2493; Gaz. vol. 168; p. 433.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Compound safe or vault door. No. 997,775; July 11; Sp. p. 2496; Gaz. vol. 168; p. 434.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door. No. 997,776; July 11; Sp. p. 2498; Gaz. vol. 168; p. 434.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door. No. 997,777; July 11; Sp. p. 2500; Gaz. vol. 168; p. 434.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door. No. 997,778; July 11; Sp. p. 2503; Gaz. vol. 168; p. 434.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door. No. 997,779; July 11; Sp. p. 2505; Gaz. vol. 168; p. 435.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door. No. 997,780; July 11; Sp. p. 2508; Gaz. vol. 168; p. 435.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door. No. 997,781; July 11; Sp. p. 2511; Gaz. vol. 168; p. 435.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door. No. 997,782; July 11; Sp. p. 2514; Gaz. vol. 168; p. 436.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault body. No. 997,783; July 11; Sp. p. 2517; Gaz. vol. 168; p. 436.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault. No. 997,784; July 11; Sp. p. 2518; Gaz. vol. 168; p. 437.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault. No. 997,785; July 11; Sp. p. 2520; Gaz. vol. 168; p. 437.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door holding means. No. 997,786; July 11; Sp. p. 2512; Gaz. vol. 168; p. 437.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault. No. 997,787; July 11; Sp. p. 2524; Gaz. vol. 168; p. 437.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Locking mechanism for safes or vaults. No. 997,788; July 11; Sp. p. 2527; Gaz. vol. 168; p. 438.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Locking mechanism for safes or vaults. No. 997,789; July 11; Sp. p. 2538; Gaz. vol. 168; p. 438.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door holding means. No. 997,790; July 11; Sp. p. 2545; Gaz. vol. 168; p. 439.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe. No. 997,791; July 11; Sp. p. 2547; Gaz. vol. 168; p. 439.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault. No. 997,792; July 11; Sp. p. 2551; Gaz. vol. 168; p. 439.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door. No. 997,794; July 11; Sp. p. 2557; Gaz. vol. 168; p. 440.
Fish, Samuel W., Plainfield, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door. No. 997,795; July 11; Sp. p. 2562; Gaz. vol. 168; p. 440.
Fish, Samuel W., and L. Layton, Plainfield, assignors to Taylor Iron & Steel Company, High Bridge, N. J. Safe or vault door holding or locking means. No. 997,793; July 11; Sp. p. 2553; Gaz. vol. 168; p. 440.
Fish, Squire J., Brooklyn, Mich. Cloth rolling and measuring apparatus. No. 1,009,730; Nov. 28; Sp. p. 4649; Gaz. vol. 172; p. 845.

Alphabetical list of patentees—Continued.

Fish, Walter C., Lynn, Mass., assignor to General Electric Company. Brush for dynamo-electric machines. No. 996,475; June 27; Sp. p. 5236; Gaz. vol. 167; p. 918.
Fish, Walter C., Lynn, Mass., assignor to General Electric Company. Speed-varying device for machine-tools. No. 1,008,593; Nov. 14; Sp. p. 2190; Gaz. vol. 172; p. 374.
Fish, Walter C., and A. M. Stanley, Lynn, Mass., assignors to General Electric Company. Electric vulcanizer. No. 982,045; Jan. 17; Sp. p. 4190; Gaz. vol. 162; p. 698.
Fishback, Frederick R., New York, N. Y., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Control system for electric motors. No. 1,005,700; Oct. 10; Sp. p. 2486; Gaz. vol. 171; p. 426.
Fishbough, Samantha. (See Durfee, Lydia M., assignor.)
Fishburn, Thomas H., London, England. Apparatus for extracting dust from type-cases and the like. No. 1,009,294; Nov. 21; Sp. p. 3733; Gaz. vol. 172; p. 650.
Fisher, Ada W. (See White and Fisher.)
Fisher, Albert F., Hempstead, N. Y. Match-safe. No. 1,009,060; Nov. 21; Sp. p. 3200; Gaz. vol. 172; p. 567.
Fisher, Alexander, Montreal, Quebec, Canada. Waste-pipe connection. No. 990,646; Apr. 25; Sp. p. 5111; Gaz. vol. 165; p. 889.
Fisher, Andrew J., Buda, assignor to L. H. Scott, Princeton, Ill. Concrete-mixer. No. 987,974; Mar. 28; Sp. p. 4751; Gaz. vol. 164; p. 847.
Fisher, Charles, assignor, by mesne assignments, to The Automatic Recording Safe Company, Chicago, Ill. Savings-bank. No. 990,533; Apr. 25; Sp. p. 4881; Gaz. vol. 165; p. 851.
Fisher, Charles, assignor, by mesne assignments, to The Automatic Recording Safe Company, Chicago, Ill. Savings-bank. No. 990,534; Apr. 25; Sp. p. 4884; Gaz. vol. 165; p. 852.
Fisher, Charles, assignor, by mesne assignments, to The Automatic Recording Safe Company, Chicago, Ill. Savings-bank. No. 990,535; Apr. 25; Sp. p. 4886; Gaz. vol. 165; p. 852.
Fisher, Charles, Oak Park, assignor, by mesne assignments, to The Automatic Recording Safe Company, Chicago, Ill. Portable savings-bank. No. 1,010,881; Dec. 5; Sp. p. 1075; Gaz. vol. 173; p. 168.
Fisher, Charles P. (See Fisher, James A. and C. P.)
Fisher, Dudley T., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Brake mechanism. No. 985,889; Mar. 7; Sp. p. 280; Gaz. vol. 164; p. 45.
Fisher, Ebenezer, Egg Harbor City, N. J. Vise. No. 999,978; Aug. 8; Sp. p. 1573; Gaz. vol. 169; p. 296.
Fisher, Ebenezer, Egg Harbor City, N. J. Vise. No. 999,979; Aug. 8; Sp. p. 1575; Gaz. vol. 169; p. 296.
Fisher, Edward F., Seattle, Wash. Bedstead. No. 980,769; Jan. 3; Sp. p. 1265; Gaz. vol. 162; p. 203.
Fisher, Elmer, Detroit, Mich. Hand-stamp. No. 990,719; Apr. 25; Sp. p. 5297; Gaz. vol. 165; p. 913.
Fisher, Emanuel, Jr., assignor of one-half to F. S. Peck, Providence, R. I. Rotary engine. No. 988,989; Apr. 11; Sp. p. 1470; Gaz. vol. 165; p. 259.
Fisher, Emanuel, Jr., assignor of one-half to F. S. Peck, Providence, R. I. Turbine. No. 988,990; Apr. 11; Sp. p. 1473; Gaz. vol. 165; p. 259.
Fisher, Emanuel, Jr., assignor of one-half to F. S. Peck, Providence, R. I. Condenser. No. 988,991; Apr. 11; Sp. p. 1476; Gaz. vol. 165; p. 259.
Fisher, Emanuel, Jr., assignor of one-half to F. S. Peck, Providence, R. I. Rotary engine. No. 988,992; Apr. 11; Sp. p. 1477; Gaz. vol. 165; p. 260.
Fisher, Emanuel, Jr., Providence, assignor of one-half to F. S. Peck, Barrington, R. I. Valve. No. 1,012,070; Dec. 19; Sp. p. 3775; Gaz. vol. 173; p. 654.
Fisher, Ernest, Twin Brooks, S. D. Lubricating mechanism. No. 996,754; July 4; Sp. p. 316; Gaz. vol. 168; p. 54.
Fisher, Frank, New York, N. Y. System of transmitting signals electrically through conductors. No. 993,046; May 23; Sp. p. 4759; Gaz. vol. 166; p. 866.
Fisher, George A., and J. A. Morrison, assignors to Fisher Paper Box Company, Minneapolis, Minn. Blank-slotting machine. No. 1,012,538; Dec. 19; Sp. p. 4734; Gaz. vol. 173; p. 813.
Fisher, George M., East Orange, N. J., and A. E. Embleton, Pittston, Pa. Safety cranking device. No. 986,275; Mar. 7; Sp. p. 1083; Gaz. vol. 164; p. 174.
Fisher, Harvey L., and J. G. Vincent, assignors to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 988,700; Apr. 4; Sp. p. 871; Gaz. vol. 165; p. 141.
Fisher, Henry G., New Denver, British Columbia, Canada. Sign-displaying indicator. No. 994,992; June 13; Sp. p. 1980; Gaz. vol. 167; p. 346.
Fisher, Henry N. (See McMullen, Frederic G., assignor.)
Fisher, Henry W., Pittsburgh, Pa., assignor to Standard Underground Cable Company. Making compound metal articles. No. 1,005,628; Oct. 10; Sp. p. 2336; Gaz. vol. 171; p. 401.
Fisher, Henry W., Pittsburgh, Pa., assignor to Standard Underground Cable Company. Forming compound bodies of different metals. No. 1,005,629; Oct. 10; Sp. p. 2338; Gaz. vol. 171; p. 402.
Fisher, Henry W., assignor to Standard Underground Cable Company, Pittsburgh, Pa. Forming electric cables and apparatus therefor. No. 1,009,731; Nov. 28; Sp. p. 4651; Gaz. vol. 172; p. 845.
Fisher, Henry W., assignor to Standard Underground Cable Company, Pittsburgh, Pa. Machine for covering electrical conductors. No. 1,009,732; Nov. 28; Sp. p. 4653; Gaz. vol. 172; p. 845.
Fisher, Herbert E., San Francisco, Cal. Ship's wave-motor. No. 986,627; Mar. 14; Sp. p. 1841; Gaz. vol. 164; p. 327.
Fisher, Homer O., Ravenna, Ohio. Cream-separator. No. 1,008,896; Nov. 14; Sp. p. 2830; Gaz. vol. 172; p. 476.
Fisher, Howard, Packerton, Ind. Electric switch. No. 995,528; June 20; Sp. p. 3124; Gaz. vol. 167; p. 556.
Fisher, James A. and C. P., Richmond, Va. Curtain-fastener. No. 1,008,633; Nov. 14; Sp. p. 2292; Gaz. vol. 172; p. 387.
Fisher, John W., Newberry, Pa. Horseshoe-calk. No. 1,005,949; Oct. 17; Sp. p. 3037; Gaz. vol. 171; p. 547.
Fisher, Levi P., assignor to G. A. Hormell & Co., Austin, Minn. Meat-hanger. No. 998,286; July 18; Sp. p. 3686; Gaz. vol. 168; p. 657.
Fisher, Mary D., Bluefield, W. Va. Collapsible hat-anchor. No. 1,001,831; Aug. 29; Sp. p. 5626; Gaz. vol. 169; p. 1031.
Fisher, Michel J., Utica, N. Y. Knitted fabric. No. 1,001,629; Aug. 29; Sp. p. 5180; Gaz. vol. 169; p. 960.
Fisher Paper Box Company. (See Fisher and Morrison, assignors.)
Fisher, Robert H., Blacksburg, Va. Grubbing-frame. No. 983,129; Jan. 31; Sp. p. 6472; Gaz. vol. 162; p. 1125.
Fisher, William H. (See Connolly, Fisher, and Papke.)
Fisher, William H., Chicago, Ill. Grain-door. No. 982,261; Jan. 24; Sp. p. 4613; Gaz. vol. 162; p. 801.
Fisher, Willis H., Baltimore, Md. Molding apparatus. No. 985,576; Feb. 28; Sp. p. 5045; Gaz. vol. 163; p. 892.
Fishman, Joseph, assignor to Loth Clothing Company, St. Louis, Mo. Trousers. No. 1,005,526; Oct. 10; Sp. p. 2076; Gaz. vol. 171; p. 365.
Fisk, Henry M., Pella, Iowa. Tile-laying machine. No. 991,292; May 2; Sp. p. 994; Gaz. vol. 166; p. 168.
Fisk, Lawnnedo, assignor to Stancliff Well Screen and Mfg. Co., Houston, Tex. Notching means for wire-winding machines. No. 991,144; May 2; Sp. p. 671; Gaz. vol. 166; p. 114.
Fisk Rubber Company, The. (See Cole, John C., assignor.)
Fisk Rubber Company, The. (See Whitlock, William T., assignor.)
Fiske & Company. (See Estes and Fiske, assignors.)
Fiske, G. Walter, *et al.* (See Geiger, Charles E., assignor.)
Fiske, Jonathan P. B. (See Estes and Fiske.)
Fiten, Edward S., Wayland, Mich. Name-holder for mail-boxes. No. 994,734; June 13; Sp. p. 1385; Gaz. vol. 167; p. 259.
Fitch, Ezra H., Montclair, N. J., assignor to Abercrombie and Fitch Co., New York, N. Y. Sleeping-bag. No. 983,223; Jan. 31; Sp. p. 6650; Gaz. vol. 162; p. 1156.
Fitch, Frank L., Santa Cruz, Cal. Electric-lighted finder. No. 995,778; June 20; Sp. p. 3692; Gaz. vol. 167; p. 642.
Fitch, Frank L., Santa Cruz, and O. W. Britt, San Francisco, Cal. Combined jack, wheel-puller, and vise. No. 997,796; July 11; Sp. p. 2572; Gaz. vol. 168; p. 441.
Fitch, John C. A., Brooklyn, N. Y. Drip-can. No. 998,490; July 18; Sp. p. 4106; Gaz. vol. 168; p. 727.
Fitch, John F., Buchanan, Va. Floor-rubber. No. 995,125; June 13; Sp. p. 2243; Gaz. vol. 167; p. 390.
Fitch, John H., Chicago, Ill. Curtain-sign for windows. No. 981,184; Jan. 10; Sp. p. 2294; Gaz. vol. 162; p. 376.
Fitch, Theodore T., Washington, D. C. Chronograph. No. 981,989; Jan. 17; Sp. p. 4070; Gaz. vol. 162; p. 679.
Fitch, William E., Louisville, Ky. Fireplace-damper. No. 1,011,598; Dec. 12; Sp. p. 2727; Gaz. vol. 173; p. 457.
Fitchet, William R., Pinnebog, Mich. Food-safe. No. 1,002,664; Sept. 5; Sp. p. 1067; Gaz. vol. 170; p. 160.
Fithian, Charles B., Philadelphia, Pa. Safety car-fender. No. 990,720; Apr. 25; Sp. p. 5298; Gaz. vol. 165; p. 913.
Fitton, Frank O. (See Morrison and Schlaegel, assignors.)
Fitton, Frederick, and E. Milnes, Rochdale, England. Tape-measure for use on bowling-greens. No. 996,476; June 27; Sp. p. 5237; Gaz. vol. 167; p. 918.
Fitts, James L., Merchantville, and J. E. G. Montgomery, Camden, N. J., assignors to Warren Webster & Company. Automatic valve for steam apparatus. No. 1,002,252; Sept. 5; Sp. p. 149; Gaz. vol. 170; p. 18.
Fitts, William A., Britton, Tex. Display-board. No. 983,885; Feb. 14; Sp. p. 1371; Gaz. vol. 163; p. 246.
Fitz, Ervin M., Columbus, Ohio. Electric-lighting system. No. 984,128; Feb. 14; Sp. p. 1896; Gaz. vol. 163; p. 326.
Fitz, Ervin M., Columbus, Ohio. Cuspidor. No. 1,002,509; Sept. 5; Sp. p. 733; Gaz. vol. 170; p. 108.
Fitz Gerald, John W., assignor to Annable-Fitzgerald Engineering and Manufacturing Company, Grand Rapids, Mich. Starter for internal-combustion engines. No. 990,351; Apr. 25; Sp. p. 4441; Gaz. vol. 165; p. 785.
Fitz Jerrell, Harry B. (See Lewis, Lyman S., assignor.)
Fitzgerald, Daniel P., Newark, N. J. Metal-spinning machine. No. 1,004,763; Oct. 3; Sp. p. 468; Gaz. vol. 171; p. 77.
Fitzgerald, Edmond B., Rosedale, Miss. Sectional wheel. No. 987,224; Mar. 21; Sp. p. 3095; Gaz. vol. 164; p. 561.

Alphabetical list of patentees—Continued.

Fitzgerald, James, West Duluth, Minn. Oscillating-engine valve. No. 994,582; June 6; Sp. p. 999; Gaz. vol. 167; p. 166.
Fitzgerald, James J., *et al.* (See Rawstron, Donald, assignor.)
Fitzgerald, Jeremiah C., De Kalb, assignor to Smith Manufacturing Company, Chicago, Ill. Elevated carrier. No. 985,577; Feb. 28; Sp. p. 5051; Gaz. vol. 163; p. 893.
Fitzgerald, Jeremiah C., De Kalb, assignor to Smith Manufacturing Company, Chicago, Ill. Elevated track for carriers. (Reissue.) No. 13,246; May 30; Sp. p. 7001; Gaz. vol. 166; p. 1256.
Fitzgerald, Jeremiah C., and C. Murray, De Kalb, Ill. Automatic overhead carrier. No. 994,071; May 30; Sp. p. 6921; Gaz. vol. 166; p. 1243.
Fitzgerald, Jeremiah C., and C. K. Murray, De Kalb, Ill. Safety-guard and brake for elevated carriers. No. 994,096; May 30; Sp. p. 6979; Gaz. vol. 166; p. 1252.
Fitzgerald, John, *et al.* (See Anderson, William, assignor.)
Fitzgerald, John W., Grand Rapids, Mich. Engine-starter. No. 988,635; Apr. 4; Sp. p. 746; Gaz. vol. 165; p. 119.
Fitzgerald, Leo F., Coalinga, Cal. Pipe-wrench. No. 995,243; June 13; Sp. p. 2473; Gaz. vol. 167; p. 428.
Fitzgerald, Thomas, *et al.* (See Pierce, Franklin A., assignor.)
Fitzgerald, Thomas F., Syracuse, N. Y. Water-gage. No. 1,000,394; Aug. 15; Sp. p. 2515; Gaz. vol. 169; p. 470.
Fitzgerald, Thomas W., Boston, Mass. Register for measuring machines or devices. No. 1,009,295; Nov. 21; Sp. p. 3735; Gaz. vol. 172; p. 650.
Fitzgerald, William, *et al.* (See Ogier, Felix F., assignor.)
Fitzgerald, William H. J., Braintree, Mass. Pipe-wrench. No. 1,004,561; Oct. 3; Sp. p. 29; Gaz. vol. 171; p. 6.
Fitzgerald, William H. J., Braintree, Mass. Wrench. No. 1,004,562; Oct. 3; Sp. p. 31; Gaz. vol. 171; p. 7.
Fitzner, Rudolf, and K. Bänsch, Schweidnitz, Germany. Support for hammocks and the like. No. 986,375; Mar. 7; Sp. p. 1299; Gaz. vol. 164; p. 210.
Fitzpatrick, Henry J., Athens, Ga. Gin-saw cleaner. No. 1,006,839; Oct. 24; Sp. p. 5046; Gaz. vol. 171; p. 889.
Fitzpatrick, John L., and L. S. Moore, Montgomery, Ala. Car-coupling. No. 996,072; June 27; Sp. p. 4303; Gaz. vol. 167; p. 781.
Fitzpatrick, Matthew J., Philadelphia, Pa. Roller-frame. No. 1,003,727; Sept. 19; Sp. p. 3365; Gaz. vol. 170; p. 601.
Fitzsimmons, James J., Baltimore, Md., assignor to Central Foundry Company, New York, N. Y. Molding-machine. No. 989,593; Apr. 18; Sp. p. 2804; Gaz. vol. 165; p. 496.
Fitzsimmons, John F., Tacoma, Wash. Feed-water heater for locomotive and other steam boilers. No. 1,004,764; Oct. 3; Sp. p. 469; Gaz. vol. 171; p. 77.
Fitzsimons, Louis E., assignor to The Novelty Manufacturing Company, Waterbury, Conn. Lighting-fixture. No. 992,416; May 16; Sp. p. 3422; Gaz. vol. 166; p. 616.
Fitzsimons, Theodore F., Edgecliffe, near Sydney, New South Wales, Australia. Venting and discharging valve for vessels containing liquids. No. 1,011,936; Dec. 19; Sp. p. 3465; Gaz. vol. 173; p. 606.
Fixen, Laura G. (See Cone, William H., assignor.)
Flaccus, Ludwig C., New York, N. Y., assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Coke-oven door. No. 992,492; May 16; Sp. p. 3577; Gaz. vol. 166; p. 641.
Flaccus, Ludwig C., New York, N. Y., assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Cleaning device for gas-collecting mains. No. 1,005,011; Oct. 3; Sp. p. 969; Gaz. vol. 171; p. 161.
Flaccus, Ludwig C., New York, N. Y., assignor to Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier, Stettin, Germany. Device for quenching coke. No. 1,007,439; Oct. 31; Sp. p. 6346; Gaz. vol. 171; p. 1152.
Flack, Charles A., Parnassus, assignor to American Conduit Manufacturing Company, Pittsburg, Pa. Flexible conduit for electric conductors. No. 983,815; Feb. 7; Sp. p. 1182; Gaz. vol. 163; p. 190.
Flack, Ole J., Coleraine, Minn. Non-refillable bottle. No. 1,004,402; Sept. 26; Sp. p. 4862; Gaz. vol. 170; p. 859.
Flad, George W., St. Paul, Minn. Engine-jack. No. 1,000,674; Aug. 15; Sp. p. 3153; Gaz. vol. 169; p. 571.
Flade, George F. (See Reith and Flade.)
Flaecher, Franz, Höchst-on-the-Main, Germany, assignor to H. A. Metz & Co., New York, N. Y. Salt of the optically-active laevo-o-dioxyphenylethanolmethylamin. No. 986,156; Mar. 7; Sp. p. 827; Gaz. vol. 164; p. 135.
Flaecher, Franz, Höchst-on-the-Main, Germany, assignor to H. A. Metz & Co., New York, N. Y. Hydrochlorid of ortho-dioxy-phenyl-ethanol-methylamin in a crystallized form. No. 1,002,909; Sept. 12; Sp. p. 1648; Gaz. vol. 170; p. 284.
Flagg, Ella A., Newton, Iowa. Heat-retainer for flat-irons. No. 1,001,747; Aug. 29; Sp. p. 5444; Gaz. vol. 169; p. 1002.
Flagg, Horatio W., Baltimore, Md. Protective covering for steps. No. 1,002,142; Aug. 29; Sp. p. 6261; Gaz. vol. 169; p. 1132.
Flagg, John C., Richmond, Me. Embalming-tube. No. 1,008,128; Nov. 7; Sp. p. 1030; Gaz. vol. 172; p. 167.
Flagg, William M. (See Bond, Dwight S., assignor.)
Flaherty, James R., Dancy, Miss. Saw-set. No. 995,590; June 20; Sp. p. 3276; Gaz. vol. 167; p. 578.
Flaherty, John R., Cincinnati, Ohio. Melting-furnace. No. 1,003,444; Sept. 19; Sp. p. 2738; Gaz. vol. 170; p. 502.
Flaherty, Thomas M., Pittsburg, Pa. Signal for crossings. No. 991,964; May 9; Sp. p. 2412; Gaz. vol. 166; p. 429.
Flaherty, William H., New York, N. Y. Air-lock. No. 986,970; Mar. 14; Sp. p. 2555; Gaz. vol. 164; p. 442.
Flaig, Joseph D., Brooklyn, Iowa. Tie. No. 1,011,335; Dec. 12; Sp. p. 2126; Gaz. vol. 173; p. 363.
Flanagan, Charles A., Colorado Springs, Colo. Railway-spike. No. 985,519; Feb. 28; Sp. p. 4930; Gaz. vol. 163; p. 873.
Flanagan, Denis, Clayton-le-Moors, England. Two-reel sewing-machine. No. 981,629; Jan. 17; Sp. p. 3270; Gaz. vol. 162; p. 555.
Flanagan, Henry, Forth Worth, Tex. Aerial navigating apparatus. No. 999,105; July 25; Sp. p. 5481; Gaz. vol. 168; p. 975.
Flanagan, John L. (See Baerenklau, Flanagan, and Winters.)
Flanagan, William, Tribbett, Miss. Tube beader and expander. No. 990,039; Apr. 18; Sp. p. 3745; Gaz. vol. 165; p. 648.
Flanagan, William P., Brooklyn, N. Y. Game-counter. No. 1,007,854; Nov. 7; Sp. p. 487; Gaz. vol. 172; p. 73.
Flanders, Charles E., assignor of one-half to G. N. Waterman, Brookfield, Mass. Filing-drawer. No. 982,262; Jan. 24; Sp. p. 4615; Gaz. vol. 162; p. 801.
Flanders, George A. (See McCleary, Clarence F., assignor.)
Flanders, Harry K., Titusville, Pa. Hinge. No. 994,583; June 6; Sp. p. 1000; Gaz. vol. 167; p. 167.
Flanders, Louis H., Pittsburg, assignor, by mesne assignments, to The Electric Storage Battery Company, Philadelphia, Pa. Rail-traversing truck. No. 999,709; Aug. 1; Sp. p. 1006; Gaz. vol. 169; p. 175.
Flanders, Max. (See Davis and Flanders.)
Flanders, Walter E. (See Heaslet, James G., assignor.)
Flannery Bolt Company. (See Foley, Dennis G., assignor.)
Flannery Bolt Company. (See Keeley, James W., assignor.)
Flannery Bolt Company. (See Stafford, Benjamin E. D., assignor.)
Flatau, Louis S., assignor of one-half to D. C. Wray, St. Louis, Mo. Coffee-urn. No. 983,130; Jan. 31; Sp. p. 6474; Gaz. vol. 162; p. 1125.
Flautt, Melvin A., assignor to The Geiser Manufacturing Company, Waynesboro, Pa. Set-works for sawmills. No. 1,012,539; Dec. 19; Sp. p. 4737; Gaz. vol. 173; p. 814.
Fleck, Charles E., Orange, N. J. Anatomical skeleton. No. 983,547; Feb. 7; Sp. p. 630; Gaz. vol. 163; p. 99.
Fleck, James W. (See Smith, Edgar L., assignor.)
Fleege, Frank H., assignor to R. J. Leacock, trustee, St. Louis, Mo. Centrifugal separator. No. 988,084; Mar. 28; Sp. p. 4983; Gaz. vol. 164; p. 884.
Fleet, Charles B., Quinlan, Tex. Well-bucket. No. 984,656; Feb. 21; Sp. p. 3059; Gaz. vol. 163; p. 541.
Flegel, Benjamin F., assignor of one-half to H. D. Gunlefinger, Warren, Ohio. Automatic electric time-switch. No. 983,224; Jan. 31; Sp. p. 6652; Gaz. vol. 162; p. 1157.
Fleischer, Emil, Dresden-Strehlen, Germany. Apparatus for the manufacture of power-gas. No. 990,212; Apr. 18; Sp. p. 4096; Gaz. vol. 165; p. 704.
Fleischer, John, assignor to A. B. Du Pont, Cleveland, Ohio. Sliding doors. No. 987,123; Mar. 21; Sp. p. 2839; Gaz. vol. 164; p. 523.
Fleischman, Clyde N., Toledo, Ohio. Ticket printing and registering apparatus. No. 981,920; Jan. 17; Sp. p. 3905; Gaz. vol. 162; p. 655.
Fleiss, Victor P., Lakewood, N. J. Aeroplane. No. 994,072; May 30; Sp. p. 6924; Gaz. vol. 166; p. 1243.
Fleiss, Victor P., Lakewood, N. J. Aeroplane. No. 1,001,941; Aug. 29; Sp. p. 5880; Gaz. vol. 169; p. 1067.
Fleming, Archibald R. (See Pusey, Walter D., assignor.)
Fleming, Douglas P., Chicago, Ill. Stuffing-box gland. No. 993,673; May 30; Sp. p. 6131; Gaz. vol. 166; p. 1109.
Fleming, Douglas P., assignor to Simplex Metal-Bound Box Company, Chicago, Ill. Box. No. 988,562; Apr. 4; Sp. p. 580; Gaz. vol. 165; p. 93.
Fleming, Douglas P., assignor to Simplex Metal Bound Box Company, Chicago, Ill. Means for locking metal-bound boxes. No. 998,887; July 25; Sp. p. 5018; Gaz. vol. 168; p. 901.
Fleming, Frederick C., and F. Rock, Chicago, Ill. Drier. No. 989,594; Apr. 18; Sp. p. 2807; Gaz. vol. 165; p. 496.
Fleming, George, Chicago, Ill. Feed-water controller. No. 983,356; Feb. 7; Sp. p. 212; Gaz. vol. 163; p. 37.
Fleming, George W., St. Louis, Mo. Street-car strap. No. 1,010,133; Nov. 28; Sp. p. 5478; Gaz. vol. 172; p. 981.
Fleming, James, Troy, N. Y. Game apparatus. No. 986,157; Mar. 7; Sp. p. 828; Gaz. vol. 164; p. 135.

Alphabetical list of patentees—Continued.

Fleming, James R., Scranton, Pa. Hauling attachment for tram-cars. No. 1,011,336; Dec. 12; Sp. p. 2127; Gaz. vol. 173; p. 363.
Fleming, John, and J. L. Niman, Lewistown, Pa. Toy steamboat. No. 997,492; July 11; Sp. p. 1849; Gaz. vol. 168; p. 334.
Fleming, Josephine M. L., Château des Ormes-sur-Voulzie, France. Vapor-burner. No. 984,657; Feb. 21; Sp. p. 3060; Gaz. vol. 163; p. 542.
Fleming, Josiah C., assignor to Detroit Hoist and Machine Company, Detroit, Mich. Turn-table-operating mechanism. No. 998,888; July 25; Sp. p. 5019; Gaz. vol. 168; p. 901.
Fleming, Richard, New Rochelle, N. Y. Smelting process and apparatus therefor. No. 981,850; Jan. 17; Sp. p. 3729; Gaz. vol. 162; p. 631.
Fleming, Samuel B., Chicago, Ill. Machine for ballast-burning. No. 993,590; May 30; Sp. p. 5923; Gaz. vol. 166; p. 1079.
Fleming, Samuel H., Camden, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Treating glycerin. (Reissue.) No. 13,234; May 9; Sp. p. 2755; Gaz. vol. 166; p. 488.
Fleming, Stephen H., Chicago, Ill. Screw-anchor. No. 1,005,630; Oct. 10; Sp. p. 2339; Gaz. vol. 171; p. 402.
Fleming, William A., New York, N. Y. Combination-faucet. No. 983,886; Feb. 14; Sp. p. 1372; Gaz. vol. 163; p. 246.
Fleming, William B., Los Angeles, Cal. Electrically-operated organ. No. 982,419; Jan. 24; Sp. p. 4954; Gaz. vol. 162; p. 857.
Fleming, William B., South Pasadena, Cal. Self-player instrument. No. 992,178; May 16; Sp. p. 2858; Gaz. vol. 166; p. 532.
Fleming, William O., Oklahoma, Okla. Sash-fastener. No. 1,011,599; Dec. 12; Sp. p. 2729; Gaz. vol. 173; p. 458.
Flemming, Charles F., Washington, D. C. Automobile-shipping case. No. 982,046; Jan. 17; Sp. p. 4192; Gaz. vol. 162; p. 699.
Flenniken, Ralph E., Wisner, Nebr. Team-protector. No. 1,009,398; Nov. 21; Sp. p. 3982; Gaz. vol. 172; p. 688.
Flesheim, Sylvester W., assignor to The Master Builders Company, Cleveland, Ohio. Bonding concrete. No. 1,012,832; Dec. 26; Sp. p. 5413; Gaz. vol. 173; p. 960.
Fletcher, Alexander, Wiarton, Ontario, Canada. Ventilator. No. 998,608; July 25; Sp. p. 4371; Gaz. vol. 168; p. 800.
Fletcher, Arthur J. (See Thornburg, Samuel A., assignor.)
Fletcher, Charles T., assignor, by mesne assignments, to F. E. French, Philadelphia, Pa. Friction-clutch. No. 994,141; June 6; Sp. p. 77; Gaz. vol. 167; p. 15.
Fletcher, Elmer E., Nye, Mont. Spoke-tenoning machine. No. 981,990; Jan. 17; Sp. p. 4073; Gaz. vol. 162; p. 679.
Fletcher, James G. (See Cleal and Fletcher.)
Fletcher, James R., assignor to P. & F. Corbin, New Britain, Conn. Lock. No. 1,008,533; Nov. 14; Sp. p. 2052; Gaz. vol. 172; p. 350.
Fletcher, John H., Murgheboluc, Victoria, Australia. Cycle-pedal variable crank device. No. 1,007,082; Oct. 31; Sp. p. 5572; Gaz. vol. 171; p. 1024.
Fletcher, John M. (See Staley and Fletcher.)
Fletcher, Joseph E., Dudley, England. Steam generation. No. 998,568; July 18; Sp. p. 4263; Gaz. vol. 168; p. 754.
Fletcher, W. C. (See Swoveland, William F., assignor.)
Fletcher, William H., Paterson, N. J. Skein-dyeing machine. No. 1,008,251; Nov. 7; Sp. p. 1299; Gaz. vol. 172; p. 212.
Flett, Alexander, London, England. Detachable-rim device for road-vehicles. No. 1,003,728; Sept. 19; Sp. p. 3366; Gaz. vol. 170; p. 601.
Flett, William, Hyde Park, Mass. Numbering device. No. 982,263; Jan. 24; Sp. p. 4617; Gaz. vol. 162; p. 801.
Flett, William, Hyde Park, assignor to International Ticket Company, Boston, Mass. Stub-numberer. No. 990,970; May 2; Sp. p. 304; Gaz. vol. 166; p. 52.
Fleuss, Henry A., Thatchan, England. Mercury vacuum-pump. No. 991,493; May 9; Sp. p. 1423; Gaz. vol. 166; p. 268.
Flexible Bolt Company, The. (See Thompson, George S., assignor.)
Flexible Rubber Goods Company, The. (See Sanford, Joseph R., assignor.)
Flexner, Jefferson E. (See Eavenson, Buffum, and Flexner.)
Flichtner, Stanwood E., Englewood, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Adjustable support for vapor-lamps. No. 990,853; May 2; Sp. p. 52; Gaz. vol. 166; p. 12.
Flickinger, Louis P., Jr., Charleroi, Pa. Envelop. No. 1,000,249; Aug. 8; Sp. p. 2186; Gaz. vol. 169; p. 389.
Fliegel, Josef, assignor to G. Lindermann, Mallmitz, Germany. Apparatus for heating liquids, especially milk. No. 987,975; Mar. 28; Sp. p. 4753; Gaz. vol. 164; p. 847.
Flightner Charles W., Bryan, Ohio. Ladder-support. No. 1,007,347; Oct. 31; Sp. p. 6146; Gaz. vol. 171; p. 1120.
Flinchbaugh, Frederick T., assignor to J. M. Turnbull, York, Pa. Washing-machine. No. 1,006,073; Oct. 17; Sp. p. 3292; Gaz. vol. 171; p. 588.
Flindt, Carl J. H., Copenhagen, Denmark. Propeller. No. 1,010,487; Dec. 5; Sp. p. 190; Gaz. vol. 173; p. 32.
Fling, Henry C. (See Buente and Fling.)
Flink, Charles, Ironwood, Mich. Car-stake pocket. No. 999,638; Aug. 1; Sp. p. 867; Gaz. vol. 169; p. 151.
Flinn, Charles W., *et al.* (See Flinn, Winfred C., assignor.)
Flinn, William H., *et al.* (See Flinn, Winfred C., assignor.)
Flinn, Winfred C., assignor of one-third to W. H. Flinn and one-third to C. W. Flinn, Bagnall, Mich. Perfume-vending machine. No. 988,701; Apr. 4; Sp. p. 890; Gaz. vol. 165; p. 141.
Flint, Jesse, Cool, assignor of one-half to G. E. Lukens, East Auburn, Cal. Wire-tightener. No. 991,965; May 9; Sp. p. 2413; Gaz. vol. 166; p. 429.
Flint & Walling Manufacturing Company. (See Macomber, Herbert H., assignor.)
Flockey, Amos, and A. E. Ostman, Minneapolis, Minn. Shirt-holder. No. 992,179; May 16; Sp. p. 2861; Gaz. vol. 166; p. 533.
Flockhart, James, Denver, Colo. Bath-tub fixture. No. 989,773; Apr. 18; Sp. p. 3169; Gaz. vol. 165; p. 557.
Flodin, Claes. (See Goetz and Flodin.)
Flood, Harry J. (See Cotton and Flood.)
Flood, Harry J., Chicago, Ill. Brick-press. No. 985,153; Feb. 28; Sp. p. 4098; Gaz. vol. 163; p. 746.
Flood, Harry J., Chicago, Ill. Brick-press. No. 987,124; Mar. 21; Sp. p. 2841; Gaz. vol. 164; p. 524.
Flood, James N., Denver, Colo. Hydraulic classifier for ores. No. 982,583; Jan. 24; Sp. p. 5300; Gaz. vol. 162; p. 914.
Flood, James N., Denver, Colo. Automatic electric sampler. No. 1,010,032; Nov. 28; Sp. p. 5285; Gaz. vol. 172; p. 948.
Flood, John H., Bridgeport, Conn., assignor to F. A. Bartlett, trustee. Reinforced-cement railway-tie. No. 1,003,590; Sept. 19; Sp. p. 3063; Gaz. vol. 170; p. 552.
Flood, John R., Spokane, Wash. Vault-door. No. 1,010,246; Nov. 28; Sp. p. 5699; Gaz. vol. 172; p. 1019.
Flood, R. E. (See Flood, William E., assignor.)
Flood, William E., assignor of one-half to R. E. Flood, Fort Worth, Tex. Attachment for wringers and washing-machines. No. 987,353; Mar. 21; Sp. p. 3369; Gaz. vol. 164; p. 605.
Flook, William A., Des Moines, Iowa. Railway-tie. No. 1,004,765; Oct. 3; Sp. p. 470; Gaz. vol. 171; p. 78.
Flora, Ellsworth E., assignor to Simplex Metal Bound Box Company, Chicago, Ill. Box-material-assembling apparatus. No. 995,667; June 20; Sp. p. 3434; Gaz. vol. 167; p. 605.
Flora, Ellsworth E., assignor to Simplex Metal Bound Box Company, Chicago, Ill. Shipping-refrigerator. No. 996,917; July 4; Sp. p. 661; Gaz. vol. 168; p. 108.
Flora, Ellsworth E., assignor to Simplex Metal Bound Box Company, Chicago, Ill. Sealing means for boxes. No. 996,918; July 4; Sp. p. 663; Gaz. vol. 168; p. 108.
Flora, Ellsworth E., assignor to Simplex Metal-Bound Box Company, Chicago, Ill. Fastener for metal straps. No. 997,186; July 4; Sp. p. 1241; Gaz. vol. 168; p. 201.
Flora, Ellsworth E., assignor to Simplex Metal-Bound Box Company, Chicago, Ill. Tool for use in fastening metal strips. No. 1,000,083; Aug. 8; Sp. p. 1842; Gaz. vol. 169; p. 333.
Flora, Perry, Owingsville, Ky. Bit-stock. No. 1,003,098; Sept. 12; Sp. p. 2023; Gaz. vol. 170; p. 348.
Florence, George. (See Redding and Florence.)
Florence, J. Eisdaile, trustee. (See Conley, Michael R., assignor.)
Florsheim, Simon, Chicago, Ill. Hose-supporter. No. 992,180; May 16; Sp. p. 2862; Gaz. vol. 166; p. 533.
Florsheim, Simon, assignor of one-half to M. Altman, Chicago, Ill. Coin-receptacle. No. 986,158; Mar. 7; Sp. p. 829; Gaz. vol. 164; p. 135.
Flory Carry Iron Company. (See Schwartz, Carl L., assignor.)
Floto, Theodore D., New York, N. Y. Toy. No. 1,006,840; Oct. 24; Sp. p. 5048; Gaz. vol. 171; p. 890.
Flour City Ornamental Iron Works. (See Murphy, John F., assignor.)
Flournoy, William T., and E. M. Willet, El Dorado, Ark. Harrow attachment for plows. No. 1,005,527; Oct. 10; Sp. p. 2078; Gaz. vol. 171; p. 365.
Flower, Charles E., administrator. (See Flower, Samuel A.)
Flower, Edwin, Passaic, N. J., assignor to Southgate Machinery Co., Boston, Mass. Bending electrotypes. No. 988,763; Apr. 4; Sp. p. 1024; Gaz. vol. 165; p. 162.
Flower, Edwin, Passaic, N. J., assignor to Southgate Machinery Company, Boston, Mass. Preparing printing-plates for bending. No. 992,121; May 9; Sp. p. 2716; Gaz. vol. 166; p. 481.
Flower, Samuel A., deceased, New York, N. Y.; C. E. Flower, administrator. Bleaching and softening jute fiber. No. 994,508; June 6; Sp. p. 836; Gaz. vol. 167; p. 140.
Flower, Ward Z., Gibbon, Minn. Spark-plug. No. 988,451; Apr. 4; Sp. p. 345; Gaz. vol. 165; p. 56.
Flowers, Malon I., Waelder, Tex. Seed-cotton cleaner. No. 1,006,542; Oct. 24; Sp. p. 4393; Gaz. vol. 171; p. 785.
Floyd, George G., Kirkwood, Mo. Apparatus for manufacturing gas and lime. No. 997,982; July 18; Sp. p. 2977; Gaz. vol. 168; p. 546.

Alphabetical list of patentees—Continued.

Floyd, George G., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Car-truck side frame and journal-box. No. 986,559; Mar. 14; Sp. p. 1711; Gaz. vol. 164; p. 303.
Floyd, George G., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Dust-guard. No. 987,799; Mar. 28; Sp. p. 4312; Gaz. vol. 164; p. 785.
Floyd, George G., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Car-truck side frame and journal-box. No. 1,010,034; Nov. 28; Sp. p. 5290; Gaz. vol. 172; p. 948.
Floyd, George G., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Reinforced car-truck. No. 1,010,035; Nov. 28; Sp. p. 5292; Gaz. vol. 172; p. 948.
Floyd, George G., Granite City, and C. F. Murray, Chicago, Ill., assignors to American Steel Foundries, New York, N. Y. Tandem-spring draft-gear. No. 1,010,033; Nov. 28; Sp. p. 5288; Gaz. vol. 172; p. 948.
Floyd, Harry W., assignor of one-half to R. O. Taylor, Beeville, Tex. Horse-releaser. No. 1,005,631; Oct. 10; Sp. p. 2341; Gaz. vol. 171; p. 402.
Flucken, Adolph H., *et al.* (See Kett, Richard, assignor.)
Fluegelman, Isidor, New York, N. Y. Auditing cash-register. No. 994,735; June 13; Sp. p. 1386; Gaz. vol. 167; p. 259.
Flugstad, John M., and D. A. Bishop, Hamilton, Mont. Ring-cutting machine. No. 991,710; May 9; Sp. p. 1914; Gaz. vol. 166; p. 345.
Fluharty, Allan M., Westfield, Mass., assignor to The Pope Manufacturing Company, Hartford, Conn. Pedal crank-hanger. No. 985,335; Feb. 28; Sp. p. 4496; Gaz. vol. 163; p. 809.
Fluschman, Albert C., New York, assignor of one-half to H. Martinson, New York county, N. Y. Recorder for games. No. 987,056; Mar. 14; Sp. p. 2716; Gaz. vol. 164; p. 470.
Fly-Inn-Trap Co. (See Hazelrigg, Ross, assignor.)
Flynn, Charles E., Vale, Oreg. Telephone-support. No. 993,975; May 30; Sp. p. 6726; Gaz. vol. 166; p. 1210.
Flynn, David W., Mauckport, Ind. Smoking-pipe. No. 1,009,495; Nov. 21; Sp. p. 4189; Gaz. vol. 172; p. 721.
Flynn, Hobart H., Bellevue, Wash. Cushion-crutch. No. 994,584; June 6; Sp. p. 1001; Gaz. vol. 167; p. 167.
Flynn, James P. (See Jackson, Clarence W., assignor.)
Flynn, Jeremiah J., assignor of one-sixth to A. S. Cowie and one-sixth to J. M. Gambon, St. Louis, Mo. Danger-signal for railways. No. 999,443; Aug. 1; Sp. p. 492; Gaz. vol. 169; p. 86.
Flynn, John, Kingston, N. Y. Railway-gate. No. 984,896; Feb. 21; Sp. p. 3538; Gaz. vol. 163; p. 625.
Flynn, John J., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Clutch for power-presses. No. 991,775; May 9; Sp. p. 2020; Gaz. vol. 166; p. 364.
Flynn, Thomas W., Painesville, Ohio. Water-supplying device for locomotive-tenders. No. 1,009,733; Nov. 28; Sp. p. 4655; Gaz. vol. 172; p. 845.
Flynt, Louis W. G., Rochester, N. Y., assignor to Domestic Appliances Company. Vacuum cleaning apparatus. No. 997,548; July 11; Sp. p. 1966; Gaz. vol. 168; p. 351.
Flynt, Louis W. G., Rochester, N. Y., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for burnishing stitch impressions. No. 1,005,185; Oct. 10; Sp. p. 1312; Gaz. vol. 171; p. 244.
Fobes, William E., Goshen, Ind. Mold. No. 987,225; Mar. 21; Sp. p. 3096; Gaz. vol. 164; p. 561.
Focht, George, Hoboken, N. J. Bottom-door dump-bucket. No. 985,578; Feb. 28; Sp. p. 5057; Gaz. vol. 163; p. 893.
Foddrill, Henry T., Atlanta, Ga., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 990,481; Apr. 25; Sp. p. 4735; Gaz. vol. 165; p. 833.
Foden, William, Liverpool, England. Metallic packing for piston-rods and the like. No. 998,165; July 18; Sp. p. 3390; Gaz. vol. 168; p. 611.
Foedish, Ida, Bangor, Mich. Photographic-printing frame. No. 986,915; Mar. 14; Sp. p. 2461; Gaz. vol. 164; p. 425.
Foerster, Georg E. (See Druzbach, Theodor, assignor.)
Foersterling, Hans, Perth Amboy, N. J., assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Composition of matter to be used in extracting precious metals from their ores. No. 999,215; Aug. 1; Sp. p. 45; Gaz. vol. 169; p. 10.
Fogalsang, Thomas E., assignor to J. A. Moross, San Francisco, Cal. Electric heater. No. 995,591; June 20; Sp. p. 3278; Gaz. vol. 167; p. 578.
Fogalsang, Thomas E., and B. McCutcheon, assignors to J. A. Moross, San Francisco, Cal. Hot-water-bag heater. No. 1,002,253; Sept. 5; Sp. p. 152; Gaz. vol. 170; p. 19.
Fogarty, Harry. (See Gardner, Richard H., assignor.)
Fogarty, Michael J., Ilion, N. Y. Work-centering device. No. 988,452; Apr. 4; Sp. p. 347; Gaz. vol. 165; p. 56.
Fogel, Harry E., Freeport, Ill. Carbureter. No. 986,700; Mar. 14; Sp. p. 1995; Gaz. vol. 164; p. 351.
Fogelson, Schiller, Marion, Ohio. Shoe-repairing implement. No. 983,431; Feb. 7; Sp. p. 368; Gaz. vol. 163; p. 61.
Fogelsong, George W., assignor of one-half to J. M. Spriggs, Dee, Oreg. Damper. No. 986,971; Mar. 14; Sp. p. 2557; Gaz. vol. 164; p. 442.
Fogelsong Machine Co., The. (See Collett, John C., assignor.)
Fogelsong Machine Company, The. (See Collett and Lause, assignors.)
Fogerty, Henry P., St. Louis, Mo. Tile-marker. No. 999,770; Aug. 8; Sp. p. 1140; Gaz. vol. 169; p. 226.
Fogle, Charles E., assignor to The Kearns-Gorsuch Bottle Company, Zanesville, Ohio. Oiling device in combination with glass-working machine. No. 988,636; Apr. 4; Sp. p. 749; Gaz. vol. 165; p. 119.
Foix, Albert W., and A. Lebouvier, Los Angeles, Cal. Combined tie-plate and rail-fastener. No. 1,009,496; Nov. 21; Sp. p. 4190; Gaz. vol. 172; p. 721.
Foizey, James W., assignor of one-third to E. I. Ford, Newport News, Va. Releasing means for car-couplings. No. 999,021; July 25; Sp. p. 5323; Gaz. vol. 168; p. 947.
Folberth, Frederic G., Cleveland, Ohio. Carbureter. No. 996,981; July 4; Sp. p. 818; Gaz. vol. 168; p. 131.
Foley, Charles H., Sherman, Tex. Concrete-mixer. No. 1,004,766; Oct. 3; Sp. p. 472; Gaz. vol. 171; p. 78.
Foley, Dennis G., Green Island, N. Y., assignor, by mesne assignments, of one-half to Flannery Bolt Company, Pittsburg, Pa. Fusible plug. No. 989,901; Apr. 18; Sp. p. 3445; Gaz. vol. 165; p. 600.
Foley, John, deceased, Naas, Ireland; J. D. Foley, administrator, Troy, N. Y. Range-finder. No. 998,765; July 25; Sp. p. 4739; Gaz. vol. 168; p. 857.
Foley, Joseph D., administrator. (See Foley, John.)
Foley, Thomas F., Washington, D. C. Float-valve. No. 1,007,191; Oct. 31; Sp. p. 5835; Gaz. vol. 171; p. 1065.
Foley & Williams Mfg. Co. (See Vallette, Edmond, assignor.)
Folger, Harry S., *et al.*, trustees. (See Folger and Comstock, assignors.)
Folger, Harry S., Chicago, Ill. Hand-stamp. No. 996,010; June 20; Sp. p. 4162; Gaz. vol. 167; p. 724.
Folger, Harry S., Chicago, Ill., and A. M. Comstock, Muskegon, Mich. Band dating attachment for self-inking hand-stamps. No. 1,005,632; Oct. 10; Sp. p. 2342; Gaz. vol. 171; p. 402.
Folger, Harry S., Chicago, Ill., and A. M. Comstock, Muskegon, Mich., assignors to said Harry S. Folger and O. Romel, trustees, Chicago, Ill. Hand-stamp. No. 1,010,044; Dec. 5; Sp. p. 1403; Gaz. vol. 173; p. 223.
Folger, Thomas H. E., Corral, Idaho. Flying-machine. No. 1,006,074; Oct. 17; Sp. p. 3293; Gaz. vol. 171; p. 588.
Follett, Frank E., assignor of one-half to J. R. Opp, Otterbein, Ind. Air-compressor for use with engines. No. 993,356; May 30; Sp. p. 5412; Gaz. vol. 166; p. 999.
Follingstad, Louis M., Zumbrota, Minn. Lifting device. No. 1,005,633; Oct. 10; Sp. p. 2345; Gaz. vol. 171; p. 403.
Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. View-finder. No. 989,240; Apr. 11; Sp. p. 1999; Gaz. vol. 165; p. 343.
Folmer, William F., assignor to Eastman Kodak Co., Rochester, N. Y. Camera. No. 993,047; May 23; Sp. p. 4762; Gaz. vol. 166; p. 866.
Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. No. 994,914; June 13; Sp. p. 1821; Gaz. vol. 167; p. 320.
Folmer, William F., assignor to Eastman Kodak Co., Rochester, N. Y. Photographic-printing apparatus. No. 999,216; Aug. 1; Sp. p. 47; Gaz. vol. 169; p. 10.
Folsom, Andrew W., Sherman, Tex. Display-case. No. 981,851; Jan. 17; Sp. p. 3736; Gaz. vol. 162; p. 632.
Folsom, William C., Postville, Iowa. Gate. No. 995,338; June 13; Sp. p. 2686; Gaz. vol. 167; p. 461.
Folta, Joseph, *et al.* (See Lukaszewski, Stanislaw J., assignor.)
Folts, Elton E. (See Beardsley and Folts.)
Foltz, John S., Washington, D. C. Bread-rack. No. 1,010,036; Nov. 28; Sp. p. 5294; Gaz. vol. 172; p. 949.
Fonger, William, Chicago, Ill. Guard or fender for street-cars and the like. No. 1,009,399; Nov. 21; Sp. p. 3984; Gaz. vol. 172; p. 688.
Fonó, Albert, Budapest, Austria-Hungary. Apparatus for blowing off boiler-mud. No. 1,004,403; Sept. 26; Sp. p. 4863; Gaz. vol. 170; p. 859.
Fontaine, Theodor de, Hanover, Germany. Gas-generator. No. 987,618; Mar. 21; Sp. p. 3894; Gaz. vol. 164; p. 693.
Foos Gas Engine Company, The. (See Edwards, Albert Y., assignor.)
Foot, Charles H., *et al.* (See Doney, Charles S., assignor.)
Foote, Andrew W., Gates Mills, Ohio. Machine for boring, drilling, and the like. No. 1,005,634; Oct. 10; Sp. p. 2346; Gaz. vol. 171; p. 403.
Foote, Jeff J. (See Mayfield, Paul, assignor.)
Foote, Omer P., Fredericktown, Ohio. Harrow. No. 985,579; Feb. 28; Sp. p. 5058; Gaz. vol. 163; p. 893.
Foote, Robert S., Plainfield, N. J. Starting or cranking mechanism for explosive-engines. No. 1,000,904; Aug. 15; Sp. p. 3626; Gaz. vol. 169; p. 652.
Foote, Theodore M., Allston, Mass. Recording mechanism. No. 986,159; Mar. 7; Sp. p. 830; Gaz. vol. 164; p. 135.
Foote, Theodore M., New York, N. Y., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Recording device. No. 997,983; July 18; Sp. p. 2981; Gaz. vol. 168; p. 547.

Alphabetical list of patentees—Continued.

Foote, Warren E., Everett, Mass. Electric-conductor support. No. 998,766; July 25; Sp. p. 4744; Gaz. vol. 168; p. 857.
Foote, Warren M., trustee. (See Foote, Warren M., assignor.)
Foote, Warren M., Lansdowne, Pa., assignor to W. M. Foote, trustee. Display-mount. No. 1,002,910; Sept. 12; Sp. p. 1649; Gaz. vol. 170; p. 285.
Foran, Thomas F. (See Kenney, Charles H., assignor.)
Forbes, Alexander A., North Vancouver, British Columbia, Canada. Fertilizer. No. 1,012,251; Dec. 19; Sp. p. 4174; Gaz. vol. 173; p. 716.
Forbes, Byron, assignor of one-half to E. C. Farley, Seattle, Wash. Elevator-door safety device. No. 989,774; Apr. 18; Sp. p. 3170; Gaz. vol. 165; p. 557.
Forbes, Elbridge J., Revere, Mass. Building-block. No. 989,344; Apr. 11; Sp. p. 2232; Gaz. vol. 165; p. 379.
Forbes, Harold W., Glastonbury, Conn. Electric-wire connector. No. 1,006,192; Oct. 17; Sp. p. 3571; Gaz. vol. 171; p. 632.
Forbes, Harry W., and F. Linick, Chicago, Ill. Vapor-diffusing device. No. 1,007,026; Oct. 24; Sp. p. 5429; Gaz. vol. 171; p. 951.
Force, John W. (See Johnson and Force.)
Force, Sylvester C., San Francisco, Cal. Pneumatic-tire rim. No. 1,004,639; Oct. 3; Sp. p. 193; Gaz. vol. 171; p. 34.
Ford, Albert J., New York, N. Y., assignor to Fuchs and Lang Manufacturing Company. Bronzing-machine. No. 1,008,129; Nov. 7; Sp. p. 1031; Gaz. vol. 172; p. 168.
Ford, Benjamin F., Portland, Oreg. Automatic sprinkling device. No. 1,002,381; Sept. 5; Sp. p. 467; Gaz. vol. 170; p. 66.
Ford, Bruce, Philadelphia, Pa. Secondary or storage battery. No. 986,449; Mar. 14; Sp. p. 1467; Gaz. vol. 164; p. 264.
Ford, Bruce, Philadelphia, Pa. Electric storage battery. No. 997,984; July 18; Sp. p. 2991; Gaz. vol. 168; p. 547.
Ford, Bruce, Philadelphia, Pa. Fishing-gear. No. 1,002,981; Sept. 12; Sp. p. 1782; Gaz. vol. 170; p. 308.
Ford, Clayton W., Findlay, Ohio. Potato-digger. No. 1,006,926; Oct. 24; Sp. p. 5229; Gaz. vol. 171; p. 919.
Ford, Edward T., Pikeville, and W. H. Maul, Bradford, Ohio. Railway-rail-fastening device. No. 984,085; Feb. 14; Sp. p. 1820; Gaz. vol. 163; p. 313.
Ford, Edwin I. (See Foizey, James W., assignor.)
Ford, George A., Chicago, Ill. Pajamas. No. 984,422; Feb. 14; Sp. p. 2516; Gaz. vol. 163; p. 425.
Ford, Hannibal C., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 993,234; May 23; Sp. p. 5138; Gaz. vol. 166; p. 926.
Ford, Harry J., San Quentin, Cal., assignor of one-half to W. J. Hill. Electric switch. No. 1,006,193; Oct. 17; Sp. p. 3572; Gaz. vol. 171; p. 632.
Ford, Henry, Detroit, Mich. Transmission mechanism. No. 1,005,186; Oct. 10; Sp. p. 1315; Gaz. vol. 171; p. 244.
Ford, Henry, Detroit, Mich. Motor-vehicle. No. 1,012,620; Dec. 26; Sp. p. 4929; Gaz. vol. 173; p. 886.
Ford, Jefferson D., Maryville, Mo. Spraying apparatus. No. 1,005,822; Oct. 17; Sp. p. 2738; Gaz. vol. 171; p. 500.
Ford, John B. (See Knight, Zimmer, and Ford.)
Ford & Johnson Company, The. (See Morris and Van Derveer, assignors.)
Ford, William H., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Drier. No. 994,915; June 13; Sp. p. 1825; Gaz. vol. 167; p. 321.
Ford, William W., *et al.* (See Bartosik, Joseph F., assignor.)
Ford, William W., China, Tex. Wave-motor. No. 997,663; July 11; Sp. p. 2224; Gaz. vol. 168; p. 393.
Fordice, Joseph W. (See Larson and Fordice.)
Fordyce, Alexander R., Newark, N. J. Hair-cutter. No. 1,004,404; Sept. 26; Sp. p. 4864; Gaz. vol. 170; p. 860.
Fordyce, Edmond A., Boston, Mass. Mail-chute. No. 981,921; Jan. 17; Sp. p. 3907; Gaz. vol. 162; p. 656.
Fordyce, Edmond A., Boston, and C. S. Jennings, Brookline, Mass., assignors to Lamson Consolidated Store Service Company, Newark, N. J. Automatic power control for pneumatic-despatch apparatus. No. 1,009,400; Nov. 21; Sp. p. 3987; Gaz. vol. 172; p. 689.
Forell, Carl von, Hamburg, Germany, assignor, by mesne assignments, to The Atlas Portland Cement Company, New York, N. Y. Manufacturing cement. No. 982,945; Jan. 31; Sp. p. 6090; Gaz. vol. 162; p. 1064.
Foreman, Mary W., Portsmouth, Va. Safety appliance for railways. No. 1,010,882; Dec. 5; Sp. p. 1076; Gaz. vol. 173; p. 169.
Forest, William J., and C. M. Jacobs, Wabash, Ind. Screen-door brace. No. 980,507; Jan. 3; Sp. p. 726; Gaz. vol. 162; p. 116.
Forester, Leonard, Steubenville, Ohio. Hat-fastener. No. 982,264; Jan. 24; Sp. p. 4621; Gaz. vol. 162; p. 802.
Forged Steel Wheel Company. (See Hansen, John M., assignor.)
Forgerson, Charles, assignor of one-half to C. S. Leavengood, Rosedale, Kans. Loose-leaf book. No. 997,985; July 18; Sp. p. 2995; Gaz. vol. 168; p. 547.
Forgerson, Charles, assignor of one-half to C. S. Leavengood, Rosedale, Kans. Loose-leaf book. No. 1,001,131; Aug. 22; Sp. p. 4184; Gaz. vol. 169; p. 765.
Forgrove Machinery Company, Limited, The. (See Grover, Frederick, assignor.)
Forkner, Charles E., Athens, Tex. Harrow. No. 995,779; June 20; Sp. p. 3693; Gaz. vol. 167; p. 642.
Forkner, Henry A., Joplin, Mo. Clothes-pounder. No. 1,005,950; Oct. 17; Sp. p. 3039; Gaz. vol. 171; p. 547.
Forman, Paris R. (See Rowntree and Forman.)
Forman, Paris R., Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Pneumatic door-operating mechanism. No. 1,001,942; Aug. 29; Sp. p. 5882; Gaz. vol. 169; p. 1067.
Forman, Paris R., Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Cushioning mechanism for door-operating devices. No. 1,001,943; Aug. 29; Sp. p. 5885; Gaz. vol. 169; p. 1068.
Forman, Paris R., Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Door-operating mechanism. No. 1,001,944; Aug. 29; Sp. p. 5888; Gaz. vol. 169; p. 1068.
Forman, Samuel D., Tonopah, Nev. Wheel-brake. No. 1,010,883; Dec. 5; Sp. p. 1079; Gaz. vol. 173; p. 169.
Fornander, Alfred, assignor of one-half to C. D. Holsapple, New York, N. Y. Razor-stropping machine. No. 994,736; June 13; Sp. p. 1399; Gaz. vol. 167; p. 260.
Forney, Edward H., Denver, Colo. Collapsible drinking-cup. No. 988,453; Apr. 4; Sp. p. 349; Gaz. vol. 165; p. 56.
Forney, Henry H., San Francisco, and O. B. Schoenky, Easton, Cal. Load-regulated brake mechanism. No. 1,000,593; Aug. 15; Sp. p. 2973; Gaz. vol. 169; p. 544.
Forrest, Clarence B., Middleport, Ohio. Line-tapping device for telephone and other circuits. No. 1,011,600; Dec. 12; Sp. p. 2730; Gaz. vol. 173; p. 458.
Forrest, Rolland, Philadelphia, Pa. Sound recording and reproducing instrument. No. 1,001,748; Aug. 29; Sp. p. 5445; Gaz. vol. 169; p. 1003.
Forsaith, Warren. (See Beckett, Willard F., assignor.)
Forsberg, Axel C. (See Forsberg, Paul G. and A. C.)
Forsberg, Charles J., *et al.* (See Freed, Edward A., assignor.)
Forsberg, Erik A., assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal liquid-separator. No. 993,048; May 23; Sp. p. 4765; Gaz. vol. 166; p. 866.
Forsberg, Paul G., Torrington, Conn., and A. C. Forsberg, New York, N. Y. Hanger. No. 1,012,833; Dec. 26; Sp. p. 5415; Gaz. vol. 173; p. 961.
Forsdick, H. J., *et al.* (See Goodlett, Joseph E. J., assignor.)
Forse, Lyndall, Yeovil, England. Wheel for vehicles. No. 1,002,254; Sept. 5; Sp. p. 153; Gaz. vol. 170; p. 19.
Forsheim, Joseph. (See Konigsberg and Forsheim.)
Forssell, Carl A., Stockholm, Sweden. Pontoon-bridge. No. 981,991; Jan. 17; Sp. p. 4076; Gaz. vol. 162; p. 680.
Forssell, Carl A., Stockholm, Sweden. Pillar for bridges. No. 988,764; Apr. 4; Sp. p. 1026; Gaz. vol. 165; p. 163.
Forssell, Carl F. J., Cleveland, Ohio, assignor to The National Carbon Company. Electric furnace. No. 982,420; Jan. 24; Sp. p. 4958; Gaz. vol. 162; p. 857.
Forssell, Carl F. J., assignor to National Carbon Company, Cleveland, Ohio. Graphitizing. No. 983,888; Feb. 14; Sp. p. 1377; Gaz. vol. 163; p. 247.
Forssell, Carl F. J., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Graphitizing. No. 983,887; Feb. 14; Sp. p. 1374; Gaz. vol. 163; p. 247.
Forst, Moritz, assignor to J. Schwartz, New York, N. Y. Twine-cutter. No. 1,010,357; Nov. 28; Sp. p. 5927; Gaz. vol. 172; p. 1055.
Forster, Armstrong R. (See Ungren and Forster.)
Förster, Arthur, Görlitz, Germany. Railway signaling apparatus. No. 990,971; May 2; Sp. p. 305; Gaz. vol. 166; p. 52.
Forster, Charles F., Franklin Park, Ill. Casting-pattern. No. 985,154; Feb. 28; Sp. p. 4100; Gaz. vol. 163; p. 747.
Forster, Ferdinand E., New York, N. Y. Anchor. No. 1,008,318; Nov. 14; Sp. p. 1501; Gaz. vol. 172; p. 275.
Forsyth Brothers Company. (See Johnson, Edward, assignor.)
Forsyth, Charles F. (See Wallace and Forsyth.)
Forsyth, Charles F., assignor to Eureka Bottle Cap Remover Company, Washington, D. C. Bottle-cap remover. No. 985,255; Feb. 28; Sp. p. 4329; Gaz. vol. 163; p. 782.
Forsyth, George H., Chicago, Ill. Metal sash. No. 980,937; Jan. 10; Sp. p. 1679; Gaz. vol. 162; p. 291.
Forsyth, George H., Chicago, Ill. Sash construction. No. 994,142; June 6; Sp. p. 78; Gaz. vol. 167; p. 16.
Forsyth, Henry H., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Curtain-fixture. No. 998,685; July 25; Sp. p. 4544; Gaz. vol. 168; p. 828.
Forsyth, James P., *et al.* (See Beahm, Peter, assignor.)
Forsyth, William D., Youngstown, Ohio. Cross-tie. No. 996,631; July 4; Sp. p. 80; Gaz. vol. 168; p. 14.
Forsyth, William D., Youngstown, Ohio. Brake-beam. No. 996,632; July 4; Sp. p. 81; Gaz. vol. 168; p. 15.
Forsyth, William D., Youngstown, Ohio. Rail-joint. No. 996,633; July 4; Sp. p. 82; Gaz. vol. 168; p. 15.

Alphabetical list of patentees—Continued.

Forsyth, William D., Youngstown, Ohio. Reinforced-concrete cross-tie. No. 996,634; July 4; Sp. p. 83; Gaz. vol. 168; p. 15.
Forsyth, William D., Youngstown, Ohio. Reinforced railway-tie. No. 999,771; Aug. 8; Sp. p. 1141; Gaz. vol. 169; p. 226.
Forsyth, William D., Youngstown, Ohio, assignor, by mesne assignments, to A. M. Neeper, Pittsburg, Pa. Truck side frame for cars. No. 996,629; July 4; Sp. p. 76; Gaz. vol. 168; p. 13.
Forsyth, William D., Youngstown, Ohio, assignor to A. M. Neeper, Pittsburg, Pa. Steel railway-tie. No. 996,630; July 4; Sp. p. 78; Gaz. vol. 168; p. 14.
Forsyth, William D., Youngstown, Ohio, assignor of one-half to A. M. Neeper, Pittsburgh, Pa. Metal window-frame. No. 1,005,012; Oct. 3; Sp. p. 971; Gaz. vol. 171; p. 162.
Forsyth, William D., Youngstown, Ohio, assignor of one-half to A. M. Neeper, Pittsburgh, Pa. Making expanded metal. No. 1,007,027; Oct. 24; Sp. p. 5432; Gaz. vol. 171; p. 952.
Forsyth, William H., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Curtain-roller. No. 1,010,608; Dec. 5; Sp. p. 469; Gaz. vol. 173; p. 73.
Forsythe, Albert H., Joplin, Mo. Internal-combustion engine. No. 1,011,601; Dec. 12; Sp. p. 2731; Gaz. vol. 173; p. 458.
Fort Pitt Supply Company. (See Young, James M., assignor.)
Forter-Miller Engineering Company. (See Waldburger, John A., assignor.)
Fortescue, Charles L., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Insulating-tube. No. 984,129; Feb. 14; Sp. p. 1901; Gaz. vol. 163; p. 326.
Fortescue, Charles L., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Transformer. No. 996,755; July 4; Sp. p. 318; Gaz. vol. 168; p. 54.
Fortescue, Charles L., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Coil-winding machine. No. 999,772; Aug. 8; Sp. p. 1142; Gaz. vol. 169; p. 227.
Fortescue, Charles L., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cooling device for electric apparatus. No. 1,010,134; Nov. 28; Sp. p. 5480; Gaz. vol. 172; p. 982.
Forth, Charles, Boston, Mass. Hammer. No. 1,001,261; Aug. 22; Sp. p. 4428; Gaz. vol. 169; p. 805.
Forth, Charles, Boston, Mass. Pipe-joint. No. 1,003,042; Sept. 12; Sp. p. 1901; Gaz. vol. 170; p. 328.
Forth, Charles, Boston, Mass. Pipe-joint. No. 1,007,655; Oct. 31; Sp. p. 6819; Gaz. vol. 171; p. 1226.
Fortin, Benjamin P., and G. H. Horton, Hartford, Conn., assignors to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,002,809; Sept. 5; Sp. p. 1384; Gaz. vol. 170; p. 211.
Fortner, Frank C., Findlay, Ill. Adjustable cultivator-arch. No. 997,797; July 11; Sp. p. 2574; Gaz. vol. 168; p. 441.
Fortney, Neil J. (See Cole, Benjamin F., assignor.)
Fortune, John R., Detroit, Mich. Furnace. No. 994,830; June 13; Sp. p. 1618; Gaz. vol. 167; p. 291.
Fortune, John R., and H. S. Wells, assignors to Murphy Iron Works, Detroit, Mich. Refuse-burner. No. 981,254; Jan. 10; Sp. p. 2488; Gaz. vol. 162; p. 404.
Fortune, John R., and H. S. Wells, assignors to Murphy Iron Works, Detroit, Mich. Grate structure. No. 981,408; Jan. 10; Sp. p. 2833; Gaz. vol. 162; p. 457.
Forward, Chauncey B., Urbana, Ohio. Manufacture of asphalt. No. 998,569; July 18; Sp. p. 4267; Gaz. vol. 168; p. 754.
Forward, Walter L., West Berkeley, assignor to Byron Jackson Iron Works, Berkeley, Cal. Turbine-pump. No. 987,976; Mar. 28; Sp. p. 4754; Gaz. vol. 164; p. 848.
Foss, Benjamin F., Portland, Me. Adjustable hinge. No. 992,182; May 16; Sp. p. 2866; Gaz. vol. 166; p. 534.
Foss, Benjamin Q. P., assignor to Foss Gas Burner and Heating Company, Chicago, Ill. Gas-burner. No. 992,181; May 16; Sp. p. 2863; Gaz. vol. 166; p. 533.
Foss, Byron E., assignor of forty-nine one-hundredths to R. H. Malcomson, Chicago, Ill. Boiler-skimmer. No. 987,710; Mar. 28; Sp. p. 4125; Gaz. vol. 164; p. 755.
Foss Gas Burner and Heating Company. (See Foss, Benjamin Q. P., assignor.)
Foss, Herman, Dombaas, Norway. Sound-intensifier for telephone-mouthpieces and the like. No. 1,010,045; Dec. 5; Sp. p. 1404; Gaz. vol. 173; p. 224.
Fossati, Luigi, Milan, Italy. Lock. No. 994,143; June 6; Sp. p. 82; Gaz. vol. 167; p. 16.
Fossee, Lewis, assignor of one-fourth to E. A. Ryans and one-fourth to H. O. Lynn, Jeffersonville, Ind. Vending-machine. No. 985,794; Mar. 7; Sp. p. 54; Gaz. vol. 164; p. 12.
Fosselman, Otto C., Chicago, Ill. Counterbalanced door. No. 1,012,834; Dec. 26; Sp. p. 5417; Gaz. vol. 173; p. 961.
Foster, Charles A., Portland, Oreg. Sheet-metal culvert. No. 985,738; Feb. 28; Sp. p. 5407; Gaz. vol. 163; p. 947.
Foster, Charles A., Portland, Oreg. Culvert structure. No. 997,382; July 11; Sp. p. 1649; Gaz. vol. 168; p. 298.
Foster, Charles A., Portland, Oreg. Culvert. No. 997,383; July 11; Sp. p. 1650; Gaz. vol. 168; p. 299.
Foster, Charles A., Portland, Oreg. Sheet-metal flume. No. 1,010,419; Dec. 5; Sp. p. 32; Gaz. vol. 173; p. 7.
Foster, Charles B., and W. W. Glidden, Oak Park, Ill. Pneumatic cleaner. No. 983,988; Feb. 14; Sp. p. 1610; Gaz. vol. 163; p. 279.
Foster, Charles W., *et al.* (See Thomas, Albert H., assignor.)
Foster, Charles W., Brooklyn, N. Y. Treating canvas for special purposes. No. 996,325; June 27; Sp. p. 4910; Gaz. vol. 167; p. 865.
Foster, Clarence B., assignor to The National Cash Register Company, Dayton, Ohio. Electric cash-register. No. 988,327; Apr. 4; Sp. p. 68; Gaz. vol. 165; p. 14.
Foster, Edward S., *et al.* (See England, Arthur E., assignor.)
Foster, George, Switz City, Ind. Hame-fastener. No. 999,639; Aug. 1; Sp. p. 869; Gaz. vol. 169; p. 151.
Foster, George A., *et al.* (See Barrett, Julious E., assignor.)
Foster, George W., Lowell, Mass. Warp winding and measuring machine. No. 1,005,823; Oct. 17; Sp. p. 2740; Gaz. vol. 171; p. 500.
Foster, James E., Clarksburg, Ontario, Canada. Pneumatic stacker. No. 984,549; Feb. 21; Sp. p. 2828; Gaz. vol. 163; p. 504.
Foster, Joel B., Shelbina, Mo. Automobile-jack. No. 1,005,528; Oct. 10; Sp. p. 2079; Gaz. vol. 171; p. 366.
Foster, John F., Kansas City, Kans. Roller-bearing. No. 1,011,337; Dec. 12; Sp. p. 2129; Gaz. vol. 173; p. 363.
Foster, John H., Cuthbert, Tex. Cultivator. No. 980,410; Jan. 3; Sp. p. 476; Gaz. vol. 162; p. 82.
Foster, John W., assignor of one-half to F. A. Peyton, Utica, Miss. Hole-digger. No. 1,006,642; Oct. 24; Sp. p. 4603; Gaz. vol. 171; p. 820.
Foster, Joseph, Newark, N. J. Hinge. No. 980,622; Jan. 3; Sp. p. 953; Gaz. vol. 162; p. 155.
Foster Machine Company. (See Bolton, John B., assignor.)
Foster Machine Company. (See McKean, John O., assignor.)
Foster, Nathaniel L. (See Ellis and Foster.)
Foster, Nathaniel T. (See Rightmire, William F., assignor.)
Foster, Robert A., San Francisco, Cal. Whip-socket. No. 985,022; Feb. 21; Sp. p. 3780; Gaz. vol. 163; p. 667.
Foster, Robert J., Lestershire, N. Y. Beveled straight-edge for heel-building. No. 1,009,232; Nov. 21; Sp. p. 3591; Gaz. vol. 172; p. 627.
Foster, Rolon E., Hyde Park, Mass. Rubber sole. No. 984,806; Feb. 21; Sp. p. 3376; Gaz. vol. 163; p. 595.
Foster, Samuel P., and H. V. Stevens, East Chattanooga, Tenn. Stock-guard. No. 983,816; Feb. 7; Sp. p. 1183; Gaz. vol. 163; p. 190.
Foster, Theodore W., Providence, R. I. Powder container and dispenser. No. 1,006,075; Oct. 17; Sp. p. 3297; Gaz. vol. 171; p. 589.
Foster, Walter E., Chicago, Ill. Automatic block-signal system. No. 1,011,602; Dec. 12; Sp. p. 2734; Gaz. vol. 173; p. 459.
Foster, William B., Norwood, Ohio. Lifting-jack. No. 1,002,982; Sept. 12; Sp. p. 1784; Gaz. vol. 170; p. 309.
Foster, William F. C., Wawanesa, Manitoba, Canada. Cutting and folding device for printing-presses. No. 999,980; Aug. 8; Sp. p. 1577; Gaz. vol. 169; p. 297.
Foucart, Augustus D., Muncy, Pa. Detachable wheel-rim. No. 989,494; Apr. 11; Sp. p. 2531; Gaz. vol. 165; p. 428.
Fountain, John C., Parkhill, Ontario, Canada. Method of and means for utilizing water in driven or drive wells to generate power. No. 1,010,609; Dec. 5; Sp. p. 471; Gaz. vol. 173; p. 73.
Fountain, Marion B., Seattle, Wash. Side-arm support. No. 984,367; Feb. 14; Sp. p. 2407; Gaz. vol. 163; p. 408.
Fourcher, Harry E., Augusta, Ga. Holster. No. 1,006,194; Oct. 17; Sp. p. 3574; Gaz. vol. 171; p. 633.
Fournia, John, assignor of one-half to F. R. Greene, Albany, N. Y. Train-pipe coupling. No. 985,155; Feb. 28; Sp. p. 4102; Gaz. vol. 163; p. 747.
Fournia, John, assignor of one-half to F. R. Greene, Albany, N. Y. Boiler-furnace. No. 992,122; May 9; Sp. p. 2718; Gaz. vol. 166; p. 481.
Fournia, John, assignor of one-half to F. R. Greene, Albany, N. Y. Means for controlling the draft of locomotive-furnaces. No. 992,123; May 9; Sp. p. 2719; Gaz. vol. 166; p. 481.
Fournier, Adelbert, Sprague, assignor to J. F. O'Brien, Seattle, Wash. Rotary pump. No. 987,711; Mar. 28; Sp. p. 4127; Gaz. vol. 164; p. 755.
Fournier, Adescar, Brunswick, Me. Three-throw switch. No. 984,423; Feb. 14; Sp. p. 2517; Gaz. vol. 163; p. 426.
Fournier, Joseph B., Paris, France. Thermometer utilizing tension of vapors. No. 997,187; July 4; Sp. p. 1241; Gaz. vol. 168; p. 201.
Fournier, Joseph B., Paris, France. Thermometer utilizing tension of saturated vapors. No. 997,188; July 4; Sp. p. 1243; Gaz. vol. 168; p. 202.

Alphabetical list of patentees—Continued.

Foust, Henry, Galena, Kans., assignor of one-half to G. H. Williams, Chicago, Ill., and one-fourth to S. Johnson, Mullan, Idaho. Ore-jig. No. 983,616; Feb. 7; Sp. p. 777; Gaz. vol. 163; p. 123.
Fowden, Robert A., Philadelphia, Pa. Piston-packing. No. 987,057; Mar. 14; Sp. p. 2722; Gaz. vol. 164; p. 470.
Fowden, William T., Chester, Pa. Combined water, vacuum, and pressure gage, automatic regulator, and safety device. No. 987,125; Mar. 21; Sp. p. 2843; Gaz. vol. 164; p. 524.
Fowler, Alfred B., Central Falls, R. I. Hydrocarbon-motor. No. 981,753; Jan. 17; Sp. p. 3509; Gaz. vol. 162; p. 595.
Fowler, Alfred B., Central Falls, R. I. Starting device for gas-engines. No. 990,854; May 2; Sp. p. 53; Gaz. vol. 166; p. 12.
Fowler, Alfred B., Central Falls, R. I. Hydrocarbon-motor. No. 998,334; July 18; Sp. p. 3796; Gaz. vol. 168; p. 675.
Fowler, Alfred B., Boston, Mass. Hydrocarbon-motor. No. 989,241; Apr. 11; Sp. p. 2002; Gaz. vol. 165; p. 344.
Fowler, Benjamin F., Minneapolis, Minn. Door-stop. No. 993,357; May 30; Sp. p. 5413; Gaz. vol. 166; p. 1009.
Fowler Bottling Machine Company. (See Fowler, William M., assignor.)
Fowler, Charles M., Moultrie, Ga. Sweep attachment. No. 997,384; July 11; Sp. p. 1651; Gaz. vol. 168; p. 299.
Fowler, Edmund P., New York, N. Y. Ear-irrigating device. No. 989,839; Apr. 18; Sp. p. 3328; Gaz. vol. 165; p. 580.
Fowler, Frederick A., and G. W. Prather, Laton, Cal. Supplemental seat for motor-cycles. No. 1,013,007; Dec. 26; Sp. p. 5828; Gaz. vol. 173; p. 1019.
Fowler, Gates M., San Francisco, Cal. Aerial apparatus. No. 981,185; Jan. 10; Sp. p. 2295; Gaz. vol. 162; p. 376.
Fowler, George A., Denver, Colo. Muck shoveling, catching, and conveying apparatus for tunneling-machines. No. 994,144; June 6; Sp. p. 84; Gaz. vol. 167; p. 16.
Fowler, George A., Denver, Colo. Tunneling-machine. No. 996,842; July 4; Sp. p. 490; Gaz. vol. 168; p. 82.
Fowler, George A., Denver, Colo. Pneumatically-operated rock-drilling engine. No. 1,001,012; Aug. 22; Sp. p. 3926; Gaz. vol. 169; p. 722.
Fowler, Gordon F., Oak Park, assignor to Sears, Roebuck & Company, Chicago, Ill. Friction-clutch. No. 1,009,836; Nov. 28; Sp. p. 4880; Gaz. vol. 172; p. 881.
Fowler, James H., Harrison, Ark. Combined stethoscope and bougie. No. 1,007,083; Oct. 31; Sp. p. 5573; Gaz. vol. 171; p. 1025.
Fowler, James R., and M. J. Ufford, Amenia, N. D. Bean-harvester. No. 991,293; May 2; Sp. p. 996; Gaz. vol. 166; p. 168.
Fowler, John C., Syracuse, N. Y. Perpetual calendar and date-finder. No. 1,004,158; Sept. 26; Sp. p. 4392; Gaz. vol. 170; p. 777.
Fowler, Jonathan O. (See Dilg and Fowler.)
Fowler, Jonathan O., New York, N. Y. Weighing and vending machine. No. 985,890; Mar. 7; Sp. p. 281; Gaz. vol. 164; p. 45.
Fowler, Walter B., Lawrence, Mass. Draft-regulating damper. No. 984,550; Feb. 21; Sp. p. 2830; Gaz. vol. 163; p. 504.
Fowler, William E., Jr. (See Bauer and Fowler.)
Fowler, William E., Jr., Hammond, Ind., assignor to Simplex Railway Appliance Company, Chicago, Ill. Brake-beam. No. 990,855; May 2; Sp. p. 60; Gaz. vol. 166; p. 12.
Fowler, William F., and C. H. Mead, Indianapolis, Ind. Apple-baker. No. 987,058; Mar. 14; Sp. p. 2725; Gaz. vol. 164; p. 471.
Fowler, William M., Sound Beach, Conn., assignor to Fowler Bottling Machine Company. Filling-machine. No. 1,011,768; Dec. 12; Sp. p. 3070; Gaz. vol. 173; p. 514.
Fox, Alpheus, Chicago, Ill. Breast-drill. No. 994,450; June 6; Sp. p. 714; Gaz. vol. 167; p. 122.
Fox, Anna B., administratrix. (See Fraser and Fox.)
Fox, Arthur J., Almont, Mich. Culvert-mold. No. 995,529; June 20; Sp. p. 3126; Gaz. vol. 167; p. 556.
Fox, Arthur L., *et al.* (See Garretson, Eugene, assignor.)
Fox, Austen H., New York, and A. W. Lenderoth, Stapleton, N. Y. Magnetic control system for railways. No. 1,007,192; Oct. 31; Sp. p. 5838; Gaz. vol. 171; p. 1066.
Fox, Benjamin, and W. W. Wilson, assignors to Benjamin Fox Incorporated, Boston, Mass. Combined screed and nailing strip. No. 985,891; Mar. 7; Sp. p. 290; Gaz. vol. 164; p. 46.
Fox, Charles A., Taft, Cal. Resilient tire. No. 988,085; Mar. 28; Sp. p. 4984; Gaz. vol. 164; p. 884.
Fox, Charles J., and W. C. Grein, Rochester, N. Y. Electric-circuit-controlling means. No. 983,817; Feb. 7; Sp. p. 1184; Gaz. vol. 163; p. 191.
Fox, Charles P., Daretown, N. J. Grain tempering and polishing device. No. 998,335; July 18; Sp. p. 3799; Gaz. vol. 168; p. 675.
Fox, Edward, assignor to Atlanta Tin Plate & Sheet Mill, Atlanta, Ind. Chicken brood-coop. No. 1,010,358; Nov. 28; Sp. p. 5928; Gaz. vol. 172; p. 1055.
Fox, Floyd H., New York, N. Y. Connecting device for cross-chains of antiskid devices. No. 1,002,382; Sept. 5; Sp. p. 468; Gaz. vol. 170; p. 66.
Fox, Floyd H., New York, N. Y. Cross-chain for antiskid devices. No. 1,010,884; Dec. 5; Sp. p. 1080; Gaz. vol. 173; p. 169.
Fox, Floyd H., New York, N. Y. Antiskid-chain. No. 1,010,885; Dec. 5; Sp. p. 1081; Gaz. vol. 173; p. 169.
Fox, Fred D., *et al.* (See Sears, Eugene S., assignor.)
Fox, George H. (See Fraser and Fox.)
Fox, Ivan, Media, Pa. Eyeglass-mounting. No. 1,006,742; Oct. 24; Sp. p. 4797; Gaz. vol. 171; p. 853.
Fox, James S., Jackson, Mich. Railway-spike. No. 999,773; Aug. 8; Sp. p. 1143; Gaz. vol. 169; p. 227.
Fox, James S., Jackson, Mich. Railway-rail. No. 1,010,886; Dec. 5; Sp. p. 1082; Gaz. vol. 173; p. 170.
Fox, John P., Pittsburgh, Pa. Crusher. No. 1,007,935; Nov. 7; Sp. p. 651; Gaz. vol. 172; p. 101.
Fox, Louis D., Stephensport, Ky. Box-cover fastener. No. 982,712; Jan. 24; Sp. p. 5555; Gaz. vol. 162; p. 956.
Fox Reversible Gasoline Engine Company, The. (See Stephenson, William, assignor.)
Fox, Thomas S., New York, N. Y. Making printing-plates. No. 1,008,023; Nov. 7; Sp. p. 816; Gaz. vol. 172; p. 129.
Fox, William L. (See Galvin, Francis P., assignor.)
Fox, William P., Los Angeles, Cal. Weeding implement. No. 1,007,656; Oct. 31; Sp. p. 6823; Gaz. vol. 171; p. 1226.
Fox, William R., Grand Rapids, Mich. Type-writing machine. No. 1,001,749; Aug. 29; Sp. p. 5446; Gaz. vol. 169; p. 1003.
Foxwell, William H. (See Kay, John, assignor.)
Foy, James M., Palatka, Fla. Vehicle. No. 992,183; May 16; Sp. p. 2867; Gaz. vol. 166; p. 534.
Foy, James M., Palatka, Fla. Rotary engine. No. 996,477; June 27; Sp. p. 5239; Gaz. vol. 167; p. 919.
Foyen, James, Duluth, Minn. Car-door. No. 989,495; Apr. 11; Sp. p. 2532; Gaz. vol. 165; p. 429.
Fraentzel, Frederick C., *et al.* (See Kohn, Jacob W., assignor.)
Fraentzel, Frederick H. W., *et al.* (See Kohn, Jacob W., assignor.)
Frahm, Hermann, Hamburg, Germany. Device for damping vibrations of bodies. No. 989,958; Apr. 18; Sp. p. 3576; Gaz. vol. 165; p. 620.
Frahm, Hermann, Hamburg, Germany. Means for damping the rolling motion of ships. No. 1,007,348; Oct. 31; Sp. p. 6147; Gaz. vol. 171; p. 1121.
Frailey, Jacob E. (See Metzger, William H., assignor.)
Fraissinet, Alfred, Chemnitz, Germany. Tube-cleaner. No. 1,002,255; Sept. 5; Sp. p. 154; Gaz. vol. 170; p. 19.
Fraizer, Perry, and E. A. Nation, Newcastle, Ind. Heater. No. 988,993; Apr. 11; Sp. p. 1480; Gaz. vol. 165; p. 260.
Fraley, Charles B., assignor to Haggard & Marcusson Company, Chicago, Ill. Bed-bottom fabric. No. 982,713; Jan. 24; Sp. p. 5557; Gaz. vol. 162; p. 956.
Frambach, Mathew J., and A. R. Corrington, assignors of one-half to G. E. Knaack, Hartley, Iowa. Tire-protector. No. 1,001,518; Aug. 22; Sp. p. 4941; Gaz. vol. 169; p. 892.
Frame, Abraham L. (See Moore, Thomas P., assignor.)
Frame, Abraham L., Reading, Pa. Pumping mechanism for vacuum-cleaners. No. 987,870; Mar. 28; Sp. p. 4460; Gaz. vol. 164; p. 810.
Frame, Clovis A., Cambridge, Ohio. Mail-bag catcher. No. 994,308; June 6; Sp. p. 417; Gaz. vol. 167; p. 72.
Frame, Robert E., assignor to American Car & Foundry Company, St. Louis, Mo. Tandem-spring draft-rigging. No. 1,001,262; Aug. 22; Sp. p. 4330; Gaz. vol. 169; p. 806.
Frame, Robert E., and J. M. Rohlfing, assignors to American Car & Foundry Company, St. Louis, Mo. Body-bolster. No. 1,001,832; Aug. 29; Sp. p. 5627; Gaz. vol. 169; p. 1031.
Frame, Robert E., and J. M. Rohlfing, assignors to American Car & Foundry Company, St. Louis, Mo. Truck-bolster. No. 1,001,833; Aug. 29; Sp. p. 5630; Gaz. vol. 169; p. 1031.
Frampton, Franklin W., Pomeroy, Wash. Boat-hull and ballast means therefor. No. 987,059; Mar. 14; Sp. p. 2726; Gaz. vol. 164; p. 471.
Frampton, Reynolds C., Swissvale, Pa. Instantaneous water-heater. No. 998,083; July 18; Sp. p. 3222; Gaz. vol. 168; p. 583.
France, Arthur G., London, England. Advertising device. No. 1,008,594; Nov. 14; Sp. p. 2192; Gaz. vol. 172; p. 374.
Francescatti, Antonio, Cedarhurst, Colo. Sled-propeller. No. 997,385; July 11; Sp. p. 1652; Gaz. vol. 168; p. 299.
Francis, Charles E., Cincinnati, Ohio. Glue-boiler. No. 986,560; Mar. 14; Sp. p. 1714; Gaz. vol. 164; p. 303.
Francis, George. (See Lewis, Wright, and Francis.)
Francis, Harold R., assignor of one-half to C. A. Robertson, Rockford, Ill. Hose-clamp. No. 996,478; June 27; Sp. p. 5244; Gaz. vol. 167; p. 919.
Francis, Horace G., assignor of one-half to E. S. Wills and one-fourth to J. K. Robinson, Dexter, Mo. Ditching-machine. No. 992,866; May 23; Sp. p. 4370; Gaz. vol. 166; p. 802.
Francis, Hugh, Fayetteville, Tenn. Coin-controlled vending-machine. No. 994,916; June 13; Sp. p. 1826; Gaz. vol. 167; p. 321.

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Francis, Lewis G., Pasadena, Cal. Pin-fastener. No. 1,011,937; Dec. 19; Sp. p. 3467; Gaz. vol. 173; p. 607.
Francis, Mary J., assignor of one-half to D. H. Langan, Galeton, Pa. Huckleberry-picker. No. 1,010,488; Dec. 5; Sp. p. 191; Gaz. vol. 173; p. 32.
Francis, Morton R., Tannersville, N. Y. Lacing-hook. No. 1,002,053; Aug. 29; Sp. p. 6107; Gaz. vol. 169; p. 1103.
Francis, Robert, Brussels, Ontario, Canada. Spoke-joint. No. 1,001,380; Aug. 22; Sp. p. 4699; Gaz. vol. 169; p. 848.
Francis, William H., Cherryvale, Kans. Brick-handling machine. No. 999,774; Aug. 8; Sp. p. 1144; Gaz. vol. 169; p. 227.
Francis, William H., Cherryvale, Kans. Brick-handling method and pallet. No. 1,005,013; Oct. 3; Sp. p. 973; Gaz. vol. 171; p. 162.
Francis, William J., and C. S. Taggart, Pittsburg, Pa. Self-heating flat-iron. No. 1,002,573; Sept. 5; Sp. p. 878; Gaz. vol. 170; p. 129.
Francisco, Charles F., San Diego, Cal. Device for damming and repairing breaks in levees. No. 989,902; Apr. 18; Sp. p. 3447; Gaz. vol. 165; p. 600.
Francisco, Charles F., San Diego, Cal. Sea-wall or wharf construction. No. 996,843; July 4; Sp. p. 503; Gaz. vol. 168; p. 82.
Francisco, George T., assignor of one-half to C. M. Hill, Highland, Cal. Meat sawing or cutting machine. No. 986,450; Mar. 14; Sp. p. 1467; Gaz. vol. 164; p. 265.
Franck, Emil J., Philadelphia, Pa. Circular-fashioning knitting-machine. No. 991,711; May 9; Sp. p. 1916; Gaz. vol. 166; p. 345.
Franck, Emil J., W. Sommers, and L. Fritz, Philadephia, Pa. Coffee-mill. No. 1,011,603; Dec. 12; Sp. p. 2742; Gaz. vol. 173; p. 459.
Frandsen, Harry C., Concord, Cal. Pivot-light for automobiles. No. 988,563; Apr. 4; Sp. p. 581; Gaz. vol. 165; p. 94.
Frank Adam Electric Company. (See Peat, Harry L., assignor.)
Frank Adam Electric Company. (See Wurdack, William, assignor.)
Frank, Albert R., Spandau, Germany. Apparatus for producing nitrogen compounds from carbids. No. 1,010,404; Nov. 28; Sp. p. 6039; Gaz. vol. 172; p. 1070.
Frank, Albert R., Halensee, near Berlin, Germany, assignor to Societa Generale per la Cianamide, Rome, Italy. Producing nitrogen compounds. No. 987,674; Mar. 21; Sp. p. 4041; Gaz. vol. 164; p. 715.
Frank, Albert R., Halensee, near Berlin, Germany, assignor to Società Generale per la Cianamide, Rome, Italy. Making nitrogen compounds. No. 996,011; June 20; Sp. p. 4163; Gaz. vol. 167; p. 724.
Frank, Albert R., Halensee, near Berlin, Germany, assignor to Società Generale per la Cianamide, Rome, Italy. Producing nitrogen compounds from carbids. No. 1,006,927; Oct. 24; Sp. p. 5230; Gaz. vol. 171; p. 919.
Frank, Carl, Vienna, Austria-Hungary. Liquid-applying and polishing device. No. 1,001,834; Aug. 29; Sp. p. 5632; Gaz. vol. 169; p. 1032.
Frank, Charles. (See Johnson and Frank.)
Frank, Frederick W. (See Anderson and Frank.)
Frank & Hedden Company. (See Frank, William A., assignor.)
Frank Holton Company. (See Holton, Frank, assignor.)
Frank, John, Brooklyn, N. Y. Shoe. No. 1,007,084; Oct. 31; Sp. p. 5575; Gaz. vol. 171; p. 1025.
Frank, John J., Pittsfield, Mass., assignor to General Electric Company. System of distribution. No. 1,010,420; Dec. 5; Sp. p. 34; Gaz. vol. 173; p. 8.
Frank, Joseph. (See Benz, Frederick, Jr., assignor.)
Frank, Joseph, New York, N. Y. Batten for narrow-ware looms. No. 980,236; Jan. 3; Sp. p. 113; Gaz. vol. 162; p. 22.
Frank L. Buchanan Mining Machinery Manufacturing Company. (See Buchanan, Frank L., assignor.)
Frank & Lambert. (See Loomis, Harry T., assignor.)
Frank Mossberg Company. (See Mossberg, Frank, assignor.)
Frank, Rudolf, Grunewald, near Berlin, Germany. Apparatus for mercurial decomposition of alkaline chlorids. No. 1,009,061; Nov. 21; Sp. p. 3202; Gaz. vol. 172; p. 567.
Frank, Sigmund, Kokomo, Ind. Ice-cream-can puller and carrier. No. 993,976; May 30; Sp. p. 6728; Gaz. vol. 166; p. 1211.
Frank, William A., Hackensack, assignor to Frank & Hedden Company, Jersey City, N. J. Measuring and indicating apparatus. No. 1,006,473; Oct. 24; Sp. p. 4210; Gaz. vol. 171; p. 759.
Franke, Heinrich A. F., Charlottenburg, Germany. Device for feeding cigarette-papers. No. 996,012; June 20; Sp. p. 4165; Gaz. vol. 167; p. 724.
Franke, Herman L., Chicago, Ill. Clothes-pin bag. No. 1,005,014; Oct. 3; Sp. p. 975; Gaz. vol. 171; p. 163.
Franke, John H., Peoria, Ill. Window-ventilator. No. 983,989; Feb. 14; Sp. p. 1614; Gaz. vol. 163; p. 279.
Franke, Rudolf, Eisleben, assignor to Elektrochemische Werke (G. m. b. H.), Berlin, Germany. Improving the conductivity and tensile strength of copper and its alloys. No. 990,040; Apr. 18; Sp. p. 3746; Gaz. vol. 165; p. 648.
Frankenberg, L. A. (See Wagnitz, John A., assignor.)
Frankenheim, Aaron. (See Crowe and Frankenheim.)
Franklin, Charles W., Leipsic, Ohio. Grain-purifier. No. 988,765; Apr. 4; Sp. p. 1027; Gaz. vol. 165; p. 163.
Franklin, David O., Carlisle, Ind. Refrigerator. No. 996,232; June 27; Sp. p. 4679; Gaz. vol. 167; p. 834.
Franklin, Duncan R., assignor to S. M. Bixby & Company, New York, N. Y. Blacking or dressing for metal surfaces. No. 1,001,381; Aug. 22; Sp. p. 4700; Gaz. vol. 169; p. 848.
Franklin, Duncan R., assignor to S. M. Bixby & Company, New York, N. Y. Can-opener. No. 1,003,246; Sept. 12; Sp. p. 2340; Gaz. vol. 170; p. 402.
Franklin, Ernest, Portland, Oreg. Internal-combustion engine. No. 998,570; July 18; Sp. p. 4271; Gaz. vol. 168; p. 754.
Franklin, Fredrick M., Stockton, Cal. Safety watch-retainer. No. 987,291; Mar. 21; Sp. p. 3238; Gaz. vol. 164; p. 584.
Franklin, James W., Bristol, R. I. Die for cutting out parts of shoe-uppers. No. 999,981; Aug. 8; Sp. p. 1579; Gaz. vol. 169; p. 297.
Franklin, Joseph H., Kansas City, Mo. Hand-operated tool and implement. No. 988,869; Apr. 4; Sp. p. 1219; Gaz. vol. 165; p. 195.
Franklin, Margaret M., Chicago, Ill. Corset and swimming-belt chart. No. 1,005,951; Oct. 17; Sp. p. 3040; Gaz. vol. 171; p. 548.
Franklin, Oliver H. (See Bowers and Franklin.)
Franklin Process Company. (See Daniell, Frederick H., assignor.) (Reissue.)
Franklin, Robert M., Galveston, Tex. Trap. No. 997,123; July 4; Sp. p. 1104; Gaz. vol. 168; p. 179.
Franks, Clyde R., Chicago, Ill. Valve for gas-burners. No. 981,630; Jan. 17; Sp. p. 3271; Gaz. vol. 162; p. 555.
Franks, David H., Mancos, Colo. Hunting-belt. No. 1,002,054; Aug. 29; Sp. p. 6108; Gaz. vol. 169; p. 1103.
Franks, Henry E., and A. Geerdts, Berkeley, Cal.; said Geerdts assignor to said Franks. Window-sash balance. No. 1,006,643; Oct. 24; Sp. p. 4604; Gaz. vol. 171; p. 820.
Franks, William L., Rock Island, Ill. Adjustable light or other fixture. No. 986,451; Mar. 14; Sp. p. 1471; Gaz. vol. 164; p. 265.
Franquist, Gustave E., New York, N. Y. Power-controlling appliance. No. 1,001,835; Aug. 29; Sp. p. 5633; Gaz. vol. 169; p. 1032.
Frantz, Jacob A., assignor to Technical Supply Company, Scranton, Pa. Index-card. No. 990,721; Apr. 25; Sp. p. 5299; Gaz. vol. 165; p. 914.
Frantz Manufacturing Co. (See Frantz, Peter, assignor.)
Frantz, Peter, assignor to Frantz Manufacturing Co., Sterling, Ill. Track for door-hangers. No. 993,161; May 23; Sp. p. 4995; Gaz. vol. 166; p. 903.
Franz, Charles, New York, N. Y. Decorated article. No. 1,001,013; Aug. 22; Sp. p. 3931; Gaz. vol. 169; p. 723.
Franz, Frank, Burke, assignor of one-half to E. R. Day, Wallace, Idaho. Deck for concentrating-tables. No. 995,448; June 20; Sp. p. 2947; Gaz. vol. 167; p. 526.
Franz, Frank, Burke, assignor of one-half to E. R. Day, Wallace, Idaho. Ore-concentrator. No. 995,449; June 20; Sp. p. 2951; Gaz. vol. 167; p. 526.
Franzheim, George W., Wheeling, W. Va. Permanent mold for metallic bath-tubs and the like. No. 1,009,296; Nov. 21; Sp. p. 3738; Gaz. vol. 172; p. 651.
Frary, Edward N. (See Frary, Ernest A. and E. N.)
Frary, Ernest A. and E. N., South Deerfield, Mass. Gas-lighting burner. No. 1,001,192; Aug. 22; Sp. p. 4292; Gaz. vol. 169; p. 783.
Frary, Ernest A. and E. N., South Deerfield, Mass., assignors to Acetylene Construction Company, Hartford, Conn. Circuit-controlling apparatus for electric gas-burners. No. 994,585; June 6; Sp. p. 1003; Gaz. vol. 167; p. 167.
Frasch, Herman, New York, N. Y., assignor to The Frasch Sulphur Process Company. Valve for pipes which convey melted sulfur. No. 988,994; Apr. 11; Sp. p. 1482; Gaz. vol. 165; p. 260.
Frasch, Herman, New York, N. Y., assignor to The Frasch Sulphur Process Company. Mining sulfur. No. 988,995; Apr. 11; Sp. p. 1485; Gaz. vol. 165; p. 261.
Frasch, Herman, New York, N. Y., assignor to The Frasch Sulphur Process Company. Mining sulfur. No. 1,008,319; Nov. 14; Sp. p. 1501; Gaz. vol. 172; p. 276.
Frasch, Herman, New York, N. Y., assignor to The United Salt Company, Cleveland, Ohio. Salt-making. No. 1,006,195; Oct. 17; Sp. p. 3575; Gaz. vol. 171; p. 633.
Frasch, Herman, assignor to The United Salt Company, Cleveland, Ohio. Salt-making. No. 1,006,196; Oct. 17; Sp. p. 3578; Gaz. vol. 171; p. 633.
Frasch, Herman, assignor to The United Salt Company, Cleveland, Ohio. Means for removing incrustations of calcium sulfate from brine-heating surfaces. No. 1,006,197; Oct. 17; Sp. p. 3598; Gaz. vol. 171; p. 634.
Frasch Sulphur Process Company, The. (See Frasch, Herman, assignor.)

Alphabetical list of patentees—Continued.

Fraser, Charles F., Petersburg, Va. Fishing-stool. No. 981,631; Jan. 17; Sp. p. 3272; Gaz. vol. 162; p. 555.
Fraser, Daniel, Los Angeles, Cal. Rotary fan. No. 998,889; July 25; Sp. p. 5020; Gaz. vol. 168; p. 901.
Fraser, George H., New York, N. Y. Pump. No. 989,775; Apr. 18; Sp. p. 3172; Gaz. vol. 165; p. 558.
Fraser, Harry F., Missoula, Mont. Stamp-box. No. 981,186; Jan. 10; Sp. p. 2301; Gaz. vol. 162; p. 380.
Fraser, James A., Freedom, Pa. Lid-opening device for garbage-cans. No. 1,012,346; Dec. 19; Sp. p. 4374; Gaz. vol. 173; p. 749.
Fraser, James W., Charlotte, N. C. Clamp. No. 980,237; Jan. 3; Sp. p. 114; Gaz. vol. 162; p. 23.
Fraser, John, Hackensack, N. J. Apparatus for uniting pipe lengths. No. 999,982; Aug. 8; Sp. p. 1580; Gaz. vol. 169; p. 298.
Fraser, Robert G., Philadelphia, Pa. Base for cardboard figures. No. 1,000,250; Aug. 8; Sp. p. 2188; Gaz. vol. 169; p. 389.
Fraser, Stuart D. (See Van Vorce, Bert, assignor.)
Fraser, Warren F., Dorchester, Mass., assignor to Turner Flexible Inersole Co., Portland, Me. Machine for forming fastening members for welt-shoes. No. 989,903; Apr. 18; Sp. p. 3449; Gaz. vol. 165; p. 601.
Fraser, Warren F., Dorchester, Mass., assignor to Turner Flexible Inersole Co., Portland, Me. Machine for forming fastening members for welt-shoes. No. 989,904; Apr. 18; Sp. p. 3451; Gaz. vol. 165; p. 601.
Fraser, William K., Brewer, and G. H. Fox, deceased; A. B. Fox, administratrix, Bangor, Me. Pocket pen and pencil holder. No. 987,085; Mar. 14; Sp. p. 2767; Gaz. vol. 164; p. 479.
Frasier, Fred J., Minneapolis, Minn. Pressure-operated circuit-controller. No. 993,977; May 30; Sp. p. 6729; Gaz. vol. 166; p. 1211.
Frasier, Warren, Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 997,798; July 11; Sp. p. 2576; Gaz. vol. 168; p. 442.
Fravel, Jesse, Dayton, Ohio. Invalid-lifting apparatus. No. 982,807; Jan. 31; Sp. p. 5774; Gaz. vol. 162; p. 1017.
Fray, James A. (See Berg and Fray.)
Frayer, Charles A., assignor to The Vulcan Steam Shovel Company, Toledo, Ohio. Excavator. No. 997,052; July 4; Sp. p. 979; Gaz. vol. 168; p. 156.
Frayer, Charles A., assignor to The Vulcan Steam Shovel Company, Toledo, Ohio. Material-handling apparatus. No. 1,000,166; Aug. 8; Sp. p. 2012; Gaz. vol. 169; p. 360.
Frazer, Knute L. J., Sandpoint, Idaho, assignor to Western Drill Manufacturing Company. Drilling-machine. No. 1,005,187; Oct. 10; Sp. p. 1317; Gaz. vol. 171; p. 244.
Frazier, Allen C., *et al.* (See Owings and Osborn, assignors.)
Frazier, Edward C., *et al.* (See Owings and Osborn, assignors.)
Frazier, G. I., *et al.* (See Anderson, Oliver H., assignor.)
Frazier, George W., deceased, Pittsburg, Pa.; M. E. Frazier, administratrix, assignor to Pittsburgh Electrolytic Mfg. Co. Electrolytic ship-cleaner. No. 981,922; Jan. 17; Sp. p. 3908; Gaz. vol. 162; p. 656.
Frazier, Levi D., Tonkawa, Okla. Meat-block attachment. No. 1,006,928; Oct. 26; Sp. p. 5232; Gaz. vol. 171; p. 920.
Frazier, Mary E., administratrix. (See Frazier, George W.)
Frazier, Walter T., E. H. Brewster, and J. M. Hopfenbeck, Salt Lake City, Utah. Milk-pail. No. 992,953; May 23; Sp. p. 4566; Gaz. vol. 166; p. 833.
Freas, Thomas B., assignor to V. Weber & Company, Chicago, Ill. Constant-temperature bath. No. 999,710; Aug. 1; Sp. p. 1008; Gaz. vol. 169; p. 175.
Frech, Theodore W., Jr., Cleveland, Ohio. Seal for sectional leading-in wires. No. 1,006,198; Oct. 17; Sp. p. 3602; Gaz. vol. 171; p. 634.
Frechette, Joseph T. F., St. Gabriel de Brandon, Quebec, Canada. Automatic agitating apparatus. No. 987,126; Mar. 21; Sp. p. 2847; Gaz. vol. 164; p. 524.
Fred M. Prescott Steam Pump Company. (See Prescott and Warden, assignors.)
Fred, Solomon, Lebanon, Ohio. Account-book. No. 1,007,085; Oct. 31; Sp. p. 5577; Gaz. vol. 171; p. 1025.
Frederick, Edward P., St. Louis, Mo. Rope. No. 1,009,030; Nov. 14; Sp. p. 3125; Gaz. vol. 172; p. 520.
Frederick, Edwin E., Bellevue, assignor to The Frederick-Elder Company, Pittsburgh, Pa. Gas-controlling device for burners. No. 1,010,247; Nov. 28; Sp. p. 5701; Gaz. vol. 172; p. 1019.
Frederick-Elder Company, The. (See Frederick, Edwin E., assignor.)
Frederick, George G., Gas City, Ind. Latch. No. 983,432; Feb. 7; Sp. p. 369; Gaz. vol. 163; p. 61.
Frederick, Louis. (See Richter and Frederick.)
Frederick Stearns & Company. (See Ohliger, Willard, assignor.)
Fredericks, William J., Philadelphia, Pa. Non-heatable furnace-front. No. 985,336; Feb. 28; Sp. p. 4497; Gaz. vol. 163; p. 810.
Frederickson, Anna, Western Springs, Ill. Wardrobe-tree. No. 992,764; May 23; Sp. p. 4136; Gaz. vol. 166; p. 765.
Frederickson, Clayton E., assignor of one-fourth to H. H. Henshaw, Coalinga, Cal. Self-adjusting rotary bit. No. 995,064; June 13; Sp. p. 2141; Gaz. vol. 167; p. 371.
Frederickson, Clayton E., assignor of one-fourth to H. H. Henshaw, Coalinga, Cal. Attachment for hoisting-drums and winches. No. 1,000,084; Aug. 8; Sp. p. 1843; Gaz. vol. 169; p. 333.
Frederickson, John E., Revere, Mass. Making secondary-battery plates. No. 994,451; June 6; Sp. p. 716; Gaz. vol. 167; p. 122.
Frederiksen, Anton, Copenhagen, Denmark. Safety hairpin. No. 994,917; June 13; Sp. p. 1830; Gaz. vol. 167; p. 322.
Fréderiksen, Anton, Frederiksberg, near Copenhagen, Denmark. Safety-lock. No. 1,000,504; Aug. 15; Sp. p. 2755; Gaz. vol. 169; p. 510.
Fredrick, John E., Kokomo, Ind. Wire-fence fabric. No. 1,012,347; Dec. 19; Sp. p. 4375; Gaz. vol. 173; p. 749.
Fredrickson, Christian, Rice Lake, Wis. Reversing mechanism for power-driven machines. No. 1,008,252; Nov. 7; Sp. p. 1300; Gaz. vol. 172; p. 213.
Free, Andrew, Sulphur Bluff, Tex. Rail-joint. No. 1,005,529; Oct. 10; Sp. p. 2083; Gaz. vol. 171; p. 366.
Free, George W., St. Louis, Mo. Time-controlled switch. No. 1,008,634; Nov. 14; Sp. p. 2294; Gaz. vol. 172; p. 387.
Free Light Acetylene Generator & Mfg. Co. (See Martin and Smith, assignors.)
Free, William C., Chicago, Ill. Lift and drop head mechanism for sewing-machines. No. 1,005,952; Oct. 17; Sp. p. 3043; Gaz. vol. 171; p. 548.
Freeble Automatic Stop and Cab Signal Company. (See Freeble, Thomas M., assignor.)
Freeble, Benjamin F., Brownsville, Pa. Cuspidor. No. 985,520; Feb. 28; Sp. p. 4931; Gaz. vol. 163; p. 873.
Freeble, Thomas M., Rochester, assignor to Freeble Automatic Stop and Cab Signal Company, Pittsburg, Pa. Electric signaling system for railways. No. 999,444; Aug. 1; Sp. p. 496; Gaz. vol. 169; p. 87.
Freed, Albanas Z., Quakertown, Pa. Car-replacer. No. 993,358; May 30; Sp. p. 5415; Gaz. vol. 166; p. 1000.
Freed, Edward A., assignor of one-third to F. Lundin and one-third to C. J. Forsberg, Chicago, Ill. Locking mechanism for emergency-exit doors. No. 992,554; May 16; Sp. p. 3717; Gaz. vol. 166; p. 665.
Freed, Fred M. (See Lindeman and Freed.)
Freed, George F. (See Hylander and Freed.)
Freed, George F., assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 1,010,489; Dec. 5; Sp. p. 192; Gaz. vol. 173; p. 32.
Freed, Isaac, Harrisburg, Pa. Combination pool and billiard table. No. 982,421; Jan. 24; Sp. p. 4960; Gaz. vol. 162; p. 858.
Freedman, Hyman, Chicago, Ill. Divan-bed. No. 1,007,855; Nov. 7; Sp. p. 489; Gaz. vol. 172; p. 73.
Freedman, Max. (See Schimmel and Freedman.)
Freeland, George W., Moline, Ill., assignor to Williams, White and Company. Distributing-spout for coal-bins. No. 984,551; Feb. 21; Sp. p. 2831; Gaz. vol. 163; p. 505.
Freeland, John T., *et al.* (See Pearson, Eliphalet L., assignor.)
Freeland, William H. (See Heinz and Freeland.)
Freeland, William J. (See Shannon, Frank P., assignor.)
Freeman, Albert S., assignor to Freeman Manufacturing Company, Alexandria, Ind. Gasolene-burner. No. 995,856; June 20; Sp. p. 3862; Gaz. vol. 167; p. 671.
Freeman, C. F. (See Pillow, James G., assignor.)
Freeman, Claude L. (See Lightfoot and Freeman.)
Freeman, Earl A., *et al.* (See Marchand, Alexis, assignor.)
Freeman, Edgar H., Trenton, N. J. Waterproof electrical socket. No. 984,130; Feb. 14; Sp. p. 1902; Gaz. vol. 163; p. 326.
Freeman, Edgar H., Trenton, N. J. Adjustable casing for lamp-sockets. (Reissue.) No. 13,247; May 30; Sp. p. 7009; Gaz. vol. 166; p. 1258.
Freeman, Edgar H., Trenton, N. J. Electrical pull-socket. No. 995,244; June 13; Sp. p. 2475; Gaz. vol. 167; p. 429.
Freeman, Edgar H., Trenton, N. J. All-porcelain electrical lamp-socket. No. 1,005,635; Oct. 10; Sp. p. 2350; Gaz. vol. 171; p. 404.
Freeman, Edgar H., assignor to E. H. Freeman Electric Company, Trenton, N. J. Fastening device for electrical sign-receptacles. No. 996,844; July 4; Sp. p. 504; Gaz. vol. 168; p. 83.
Freeman, Edgar H., assignor to E. H. Freeman Electric Company, Trenton, N. J. Chain-guide for electrical pull-sockets. No. 1,002,574; Sept. 5; Sp. p. 880; Gaz. vol. 170; p. 130.
Freeman, Edgar H., assignor to E. H. Freeman Electric Company, Trenton, N. J. Pull-chain guide. No. 1,008,320; Nov. 14; Sp. p. 1507; Gaz. vol. 172; p. 276.
Freeman, Edgar H., assignor to E. H. Freeman Electric Company, Trenton, N. J. Electrical pull-socket. No. 1,009,401; Nov. 21; Sp. p. 3988; Gaz. vol. 172; p. 689.
Freeman, Ernest B., Dedham, assignor to B. F. Sturtevant Company, Boston, Mass. Ventilator. No. 990,536; Apr. 25; Sp. p. 4890; Gaz. vol. 165; p. 853.
Freeman, Frank S., and F. L. Doke, Corsicana, Tex. Rail-lubricator. No. 1,004,006; Sept. 26; Sp. p. 3998; Gaz. vol. 170; p. 723.

Alphabetical list of patentees—Continued.

Freeman, Harold W. (See Erickson and Freeman.)
Freeman, Herbert H., assignor to Oneida Community, Limited, Oneida, N. Y. Animal-trap. No. 1,004,007; Sept. 26; Sp. p. 3999; Gaz. vol. 170; p. 723.
Freeman, Horace L., West Durham, N. C. Washing-machine. No. 1,003,177; Sept. 12; Sp. p. 2189; Gaz. vol. 170; p. 376.
Freeman, Isaac S., Centuria, Wis. Gearing. No. 994,073; May 30; Sp. p. 6926; Gaz. vol. 166; p. 1244.
Freeman, Jesse T., Louisville, Ill. Poultry-feeder. No. 997,248; July 4; Sp. p. 1364; Gaz. vol. 168; p. 223.
Freeman, John H., Weymouth Heights, Mass., assignor to General Electric Company. Throttle-valve and slip-joint. No. 1,006,644; Oct. 24; Sp. p. 4606; Gaz. vol. 171; p. 821.
Freeman, John W., Joplin, assignor to United Iron Works Company, Springfield, Mo. Gearing. No. 1,011,180; Dec. 12; Sp. p. 1758; Gaz. vol. 173; p. 307.
Freeman, Joseph H., New York, N. Y., assignor to Automatic Water Heater Company. Water-heater. No. 989,959; Apr. 18; Sp. p. 3580; Gaz. vol. 165; p. 621.
Freeman, Laban T., Brookville, Miss. Educational appliance. No. 997,986; July 18; Sp. p. 2993; Gaz. vol. 168; p. 548.
Freeman, Louis G., Cincinnati, Ohio. Block-planer. No. 1,003,099; Sept. 12; Sp. p. 2025; Gaz. vol. 170; p. 348.
Freeman, Mabel M., Palms, Cal. Milk-cooler. No. 986,276; Mar. 7; Sp. p. 1084; Gaz. vol. 164; p. 174.
Freeman Manufacturing Company. (See Freeman, Albert S., assignor.)
Freeman, Marshall J., High Point, N. C. Clothing-cabinet. No. 981,187; Jan. 10; Sp. p. 2302; Gaz. vol. 162; p. 380.
Freeman, Nat H., Boulder, Colo. Concentrator. No. 983,488; Feb. 7; Sp. p. 496; Gaz. vol. 163; p. 79.
Freeman, Nat H., Boulder, Colo. Suction-pump. No. 983,865; Feb. 7; Sp. p. 1316; Gaz. vol. 163; p. 209.
Freeman, Nat H., Boulder, Colo. Apparatus for elevating water. No. 992,711; May 16; Sp. p. 4016; Gaz. vol. 166; p. 717.
Freeman, Robert L., West Elizabeth, Pa. Clothes-line fastener. No. 995,127; June 13; Sp. p. 2245; Gaz. vol. 167; p. 391.
Freeman, Roe S., Atlanta, Ga. Power-driven tool for dressing commutators. No. 990,722; Apr. 25; Sp. p. 5300; Gaz. vol. 165; p. 914.
Freeman, Rufus A., Flushing, N. Y., assignor to The Autopress Company. Delivery mechanism for printing-presses. No. 993,162; May 23; Sp. p. 4997; Gaz. vol. 166; p. 904.
Freeman, Rufus A., Flushing, N. Y., assignor to The Autopress Company. Bundling-press. No. 1,010,359; Nov. 28; Sp. p. 5930; Gaz. vol. 172; p. 1055.
Freeman, Rufus A., Flushing, N. Y., assignor to The Autopress Company. Delivery mechanism for printing-presses. No. 1,011,046; Dec. 5; Sp. p. 1405; Gaz. vol. 173; p. 224.
Freeman, Samuel, Oakland, Me. Card-holder. No. 993,674; May 30; Sp. p. 6132; Gaz. vol. 166; p. 1109.
Freeman, William J., and S. G. Crane, Kansas City, Mo. Scale-light. No. 988,702; Apr. 4; Sp. p. 892; Gaz. vol. 165; p. 142.
Freer, Fred, *et al.* (See Ivor, Barry, assignor.)
Freer, Phelps M., Barberton, Ohio. Friction device. No. 1,008,595; Nov. 14; Sp. p. 2194; Gaz. vol. 172; p. 374.
Freer, Phelps M., Barberton, Ohio. Friction device. No. 1,008,635; Nov. 14; Sp. p. 2296; Gaz. vol. 172; p. 388.
Freer, Phelps M., Rochester, N. Y., assignor, by mesne assignments, to The Connecticut Shock Absorber Company, Meriden, Conn. Shock-absorber. No. 987,977; Mar. 28; Sp. p. 4756; Gaz. vol. 164; p. 848.
Freer, Robert, and S. Greer, assignors of one-third to W. T. Hatch, Providence, R. I. Steam-trap. No. 993,591; May 30; Sp. p. 5927; Gaz. vol. 166; p. 1079.
Freerks, Cora A. A., Bremen, Germany. Packing-strip. No. 1,004,159; Sept. 26; Sp. p. 4395; Gaz. vol. 170; p. 778.
Frees, John W., and L. Winter, Reading, Pa. Automatic electric-lighting system. No. 994,145; June 6; Sp. p. 87; Gaz. vol. 167; p. 17.
Frees, John W., and L. Winter, Reading, Pa. Automatic electric-lighting system. No. 994,146; June 6; Sp. p. 89; Gaz. vol. 167; p. 17.
Freese, Albert C., San Francisco, Cal. Loose-leaf binder. No. 1,008,810; Nov. 14; Sp. p. 2663; Gaz. vol. 172; p. 447.
Freiberg, Stanley B., Cincinnati, Ohio. Electric-lamp holder. No. 990,856; May 2; Sp. p. 62; Gaz. vol. 166; p. 13.
Freier, Anton, Boston, Mass. Punching-machine. No. 996,073; June 27; Sp. p. 4304; Gaz. vol. 167; p. 781.
Freier, Anton, Boston, Mass., assignor to Holtzer-Cabot Electric Company. Wire-connector. No. 980,770; Jan. 3; Sp. p. 1267; Gaz. vol. 162; p. 203.
Freier, Anton, Boston, assignor to The Holtzer-Cabot Electric Company, Brookline, Mass. Joint-twisting tool. No. 1,004,008; Sept. 26; Sp. p. 4000; Gaz. vol. 170; p. 723.
Freimann, Hans, Stockum, near Dusseldorf, assignor to Company Carl Jäger G. m. b. H., Dusseldorf-Derendorf, Germany. Azo dye. No. 1,006,929; Oct. 24; Sp. p. 5234; Gaz. vol. 171; p. 920.
Freise, Henry F., Old Monroe, Mo. Egg-candler. No. 1,006,200; Oct. 17; Sp. p. 3605; Gaz. vol. 171; p. 635.
French, Alfred W., Piqua, Ohio. Apparatus for and method of cooking oil-bearing material. No. 1,000,675; Aug. 15; Sp. p. 3154; Gaz. vol. 169; p. 571.
French, Arthur B., New Britain, Conn. Fishpole-reel. No. 1,005,015; Oct. 3; Sp. p. 976; Gaz. vol. 171; p. 163.
French, Charles B., Kingston, Pa. Pneumatic hammer. No. 986,160; Mar. 7; Sp. p. 843; Gaz. vol. 164; p. 136.
French, Frank E. (See Fletcher, Charles T., assignor.)
French, Frederick W., Oakland, Cal. Railway-axle coupler. No. 1,009,402; Nov. 21; Sp. p. 3990; Gaz. vol. 172; p. 689.
French, G. Watson, *et al.* (See Einfeldt, Emil, assignor.)
French, Helen R., Philadelphia, Pa. Culinary device. No. 1,010,887; Dec. 5; Sp. p. 1083; Gaz. vol. 173; p. 170.
French, Herbert J., Seattle, Wash. Aeroplane. No. 1,011,604; Dec. 12; Sp. p. 2744; Gaz. vol. 173; p. 460.
French, Horace E., assignor to Krell-French Piano Co., Newcastle, Ind. Musical instrument. No. 991,494; May 9; Sp. p. 1426; Gaz. vol. 166; p. 268.
French, Ira G., Orange, Mass. Sash-fastener. No. 1,009,497; Nov. 21; Sp. p. 4191; Gaz. vol. 172; p. 721.
French, James B., Jamaica, N. Y. Transfer or float bridge. No. 983,617; Feb. 7; Sp. p. 779; Gaz. vol. 163; p. 123.
French, Leroy W., Topeka, Kans. Rain-water filter. No. 986,161; Mar. 7; Sp. p. 844; Gaz. vol. 164; p. 136.
French, Nathaniel, *et al.* (See Einfeldt, Emil, assignor.)
French, Robert L., Sussex, N. J. Toy. No. 1,001,263; Aug. 22; Sp. p. 4432; Gaz. vol. 169; p. 806.
French, Walter. (See Grosse and French.) (Reissue.)
French, Walter S., Moorestown, N. J. Road-oiler. No. 1,001,014; Aug. 22; Sp. p. 3933; Gaz. vol. 169; p. 723.
French, Willard O., Clinton, Wash. Hood for firearm-sights. No. 986,376; Mar. 7; Sp. p. 1300; Gaz. vol. 164; p. 210.
French, William H., Evansville, Ind. Ear-muff. No. 1,010,248; Nov. 28; Sp. p. 5702; Gaz. vol. 172; p. 1019.
Frerichs, Frederick W., St. Louis, Mo. Producing calcium metaphosphate and ammonia. No. 1,002,143; Aug. 29; Sp. p. 6263; Gaz. vol. 169; p. 1133.
Frerichs, Frederick W., St. Louis, Mo. Producing calcium pyrophosphate and ammonia. No. 1,002,198; Aug. 29; Sp. p. 6389; Gaz. vol. 169; p. 1151.
Frerichs, William D., Tottenville, N. Y., assignor to Atlantic Terra Cotta Company. Apparatus for molding clay articles. No. 986,701; Mar. 14; Sp. p. 1999; Gaz. vol. 164; p. 352.
Frerichs, William D., Tottenville, N. Y., assignor to The Atlantic Terra Cotta Company. Clay-press. No. 1,012,835; Dec. 26; Sp. p. 5420; Gaz. vol. 173; p. 962.
Fresh Air Feed Bag Company. (See Gaul, Andrew Jr., assignor.)
Fretter, Albert H., and A. C. Marsh, Medina, Ohio. Photographic-printing apparatus. No. 982,357; Jan. 24; Sp. p. 4825; Gaz. vol. 162; p. 836.
Fretts, Henry A., Hyde Park, Mass. Carbonizing and washing-out machine for fibrous materials. No. 995,955; June 20; Sp. p. 4055; Gaz. vol. 167; p. 705.
Fretz, Samuel S., Jr. (See Hartzell, Morris H., assignor.)
Freudenthal, Gottfrid, North Grosvenor Dale, Conn., assignor to Draper Company, Hopedale, Mass. Insertible detector for warp stop-motions. No. 1,001,750; Aug. 29; Sp. p. 5454; Gaz. vol. 169; p. 1003.
Freund, Frederick W., Santa Monica, Cal. Nozzle-holder. No. 1,007,657; Oct. 31; Sp. p. 6823; Gaz. vol. 171; p. 1226.
Freund, Jacob D., Beaver, Pa. Making structures or articles from cement or concrete. No. 1,003,730; Sept. 19; Sp. p. 3369; Gaz. vol. 170; p. 602.
Freund, Joseph, St. Louis, Mo. Gutter-tile. No. 1,003,729; Sept. 19; Sp. p. 3368; Gaz. vol. 170; p. 602.
Frevert, Charles L., Minier, Ill. Railway-tie. No. 1,005,188; Oct. 10; Sp. p. 1318; Gaz. vol. 171; p. 245.
Frey, Clarence N., assignor to The J. M. Robinson Manufacturing Company, Cincinnati, Ohio. Press. No. 986,628; Mar. 14; Sp. p. 1842; Gaz. vol. 164; p. 327.
Frey, Daniel E., Scotia, Cal. Friction-clutch. No. 994,737; June 13; Sp. p. 1401; Gaz. vol. 167; p. 260.
Frey, Erwin S., New York, N. Y. Vehicle-wheel. No. 982,047; Jan. 17; Sp. p. 4194; Gaz. vol. 162; p. 699.
Frey, Ferdinand, Cleveland, Ohio. Safety signaling device for gas connections. No. 997,987; July 18; Sp. p. 2996; Gaz. vol. 168; p. 548.
Frey, George W. (See Bell, Stuart E., assignor.)
Frey, Henry H., Newton, Kans. Grain-door for cars. No. 1,005,636; Oct. 10; Sp. p. 2352; Gaz. vol. 171; p. 404.
Frey, Herbert H., Detroit, Mich. Apparatus for compressing air. No. 1,001,132; Aug. 22; Sp. p. 4184; Gaz. vol. 169; p. 765.
Frey, John, San Francisco, Cal. Electrical precipitator and amalgamator. No. 1,009,143; Nov. 21; Sp. p. 3362; Gaz. vol. 172; p. 595.
Frey, Warren T. (See Hoffman, Zachariah S., assignor.)
Freyberg, Frederick. (See Pole, Witting, and Freyberg.)

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Freyer, Charles H., Laddonia, Mo. Bait for catching animals and the like. No. 1,006,841; Oct. 24; Sp. p. 5049; Gaz. vol. 171; p. 890.
Freygang, C. J. (See Elliott, George C., assignor.)
Freymuth, William A., London, England. Treatment of lac. No. 1,005,953; Oct. 17; Sp. p. 3046; Gaz. vol. 171; p. 548.
Freytag, Ernst E. (See Baumann, Ernst K. A., assignor.)
Freytag, Otto, Boise, Idaho. Ice-making apparatus. No. 1,004,405; Sept. 26; Sp. p. 4865; Gaz. vol. 170; p. 860.
Friberg, John G., Maiden Rock, Wis. Universally-adjustable combined horse-collar and hames. No. 987,127; Mar. 21; Sp. p. 2849; Gaz. vol. 164; p. 525.
Friberg, John G., Maiden Rock, Wis. Horse-collar fastener. No. 1,000,793; Aug. 15; Sp. p. 3411; Gaz. vol. 169; p. 613.
Frick, Charles M., township 23, Pawnee county, Kans. Threshing-machine. No. 999,640; Aug. 1; Sp. p. 870; Gaz. vol. 169; p. 151.
Frick, Herman F., Jersey City, N. J. Detachable seamless diaphragm for gas-meters. No. 984,268; Feb. 14; Sp. p. 2220; Gaz. vol. 163; p. 375.
Frick & Lindsay Company. (See Cable, Daniel J., assignor.)
Frick, Otto, Stockholm, Sweden. Reducing ores. No. 1,010,490; Dec. 5; Sp p. 194; Gaz. vol. 173; p. 33.
Frick, William C., Deal Beach, N. J. Method of and means for making tubing. No. 989,497; Apr. 11; Sp. p. 2535; Gaz. vol. 165; p. 430.
Fricke, Carl G., and J. Yelick, Plattsmouth, Nebr. Mail-bag catcher and deliverer. No. 996,635; July 4; Sp. p. 85; Gaz. vol. 168; p. 16.
Fricke, William A., assignor to Monarch Telephone Manufacturing Company, Chicago, Ill. Telephone-exchange system. No. 987,128; Mar. 21; Sp. p. 2850; Gaz. vol. 164; p. 525.
Fricke, William A., assignor to Monarch Telephone Manufacturing Company, Chicago, Ill. Telephony. No. 987,129; Mar. 21; Sp. p. 2853; Gaz. vol. 164; p. 526.
Frickey, Edward H. (See Williams and Frickey.)
Fricks, William D. (See Ashe and Fricks.)
Fricks, William D., assignor of one-half to H. M. Ashe, Atlanta, Ga. Variable-line-spacing mechanism for typewriters. No. 986,916; Mar. 14; Sp. p. 2462; Gaz. vol. 164; p. 425.
Friddle, James A., Pomeroy, Wash. Friction-clutch. No. 983,433; Feb. 7; Sp. p. 370; Gaz. vol. 163; p. 61.
Fridge, Benjamin F., Sr., Ellisville, Miss. Closet-seat. No. 990,723; Apr. 25; Sp. p. 5301; Gaz. vol. 165; p. 914.
Fridrich, Joseph, Passaic, N. J. Envelop. No. 1,006,199; Oct. 17; Sp. p. 3603; Gaz. vol. 171; p. 634.
Friebertshauser, Robert, Los Angeles, Cal. Glass-cutter. No. 1,005,637; Oct. 10; Sp. p. 2354; Gaz. vol. 171; p. 404.
Fried, Johann A., Barmen, Germany, assignor, by mesne assignments, of two-thirds to M. Bouchsein, New York, N. Y. Furnace for burning refuse. No. 1,002,575; Sept. 5; Sp. p. 881; Gaz. vol. 170; p. 130.
Fried. Krupp Aktiengesellschaft. (See Abendroth, Louis, assignor.)
Fried. Krupp Aktiengesellschaft. (See Eberhard, Otto R. von, assignor.)
Fried. Krupp Aktiengesellschaft. (See Haacker, Paul, assignor.)
Fried. Krupp Aktiengesellschaft. (See Heilemann, Walter, assignor.)
Fried. Krupp Aktiengesellschaft. (See Hermsdorf, Max, assignor.)
Fried. Krupp Aktiengesellschaft. (See Kästner, Alfred, assignor.)
Fried. Krupp Aktiengesellschaft. (See Koch, Norbert, assignor.)
Fried. Krupp Aktiengesellschaft. (See Korrodi, Heinrich, assignor.)
Fried. Krupp Aktiengesellschaft. (See Korrodi and Grauhering, assignors.)
Fried. Krupp Aktiengesellschaft. (See Lauber, Otto, assignor.)
Fried. Krupp Aktiengesellschaft. (See Mayer, Wilhelm, assignor.)
Fried. Krupp Aktiengesellschaft. (See Schickert, Paul, assignor.)
Fried. Krupp Aktiengesellschaft. (See Vogeler, Bernhard, assignor.)
Fried. Krupp Aktiengesellschaft. (See Vötsch, Hermann, assignor.)
Fried. Krupp Aktiengesellschaft. (See Wieser, Karl, assignor.)
Fried. Krupp Aktiengesellschaft. (See Wieser and Schwartz, assignors.)
Fried. Krupp Aktiengesellschaft. (See Wilck, Ulrich, assignor.)
Fried. Krupp Aktiengesellschaft. (See Wratzke, Alfred, assignor.)
Fried. Krupp Aktiengesellschaft. (See Wünsche, Adolf, assignor.)
Fried. Krupp Aktiengesellschaft. (See Ziegenfuss, Friedrich, assignor.)
Fried. Krupp Aktiengesellschaft, Germaniawerft. (See Behrmann and Hurlbrink, assignors.)
Fried. Krupp Aktiengesellschaft Grusonwerk. (See Cornelius and Schatte, assignors.)
Friedel, Albert H., Baltimore, Md. Flying-machine. No. 984,269; Feb. 14; Sp. p. 2222; Gaz. vol. 163; p. 375.
Friedel, Albert H., Baltimore, Md. Flying-machine. No. 984,270; Feb. 14; Sp. p. 2226; Gaz. vol. 163; p. 376.
Friedel, Albert H., Baltimore, Md. Flying-machine. No. 996,233; June 27; Sp. p. 4681; Gaz. vol. 167; p. 834.
Friedemann, Erich, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing dyed-acidylized-cellulose compounds. No. 994,738; June 13; Sp. p. 1403; Gaz. vol. 167; p. 261.
Friedemann, Karl L. F., Stockholm, Sweden. Preserving wood. No. 1,006,076; Oct. 17; Sp. p. 3298; Gaz. vol. 171; p. 589.
Friedemann, Karl L. F., Stockholm, Sweden. Preserving wood. No. 1,006,077; Oct. 17; Sp. p. 3299; Gaz. vol. 171; p. 589.
Friedenwald, Jacob H., Baltimore, Md. Carbureter. No. 985,256; Feb. 28; Sp. p. 4330; Gaz. vol. 163; p. 782.
Friedl, Arthur. (See Dreyfus, Friedl, and Bentley.)
Friedlander, David, Philadelphia, Pa. Hide-working machine. No. 1,009,734; Nov. 28; Sp. p. 4656; Gaz. vol. 172; p. 846.
Friedlander, Joseph, New York, N. Y. Fitting-stand for opticians. No. 986,972; Mar. 14; Sp. p. 2557; Gaz. vol. 164; p. 442.
Friedlein, Robert E., assignor to J. Wheatfield, New York, N. Y. Labeling-machine. No. 1,007,550; Oct. 31; Sp. p. 6596; Gaz. vol. 171; p. 1190.
Friedman, Bernhard Z., assignor of one-half to A. Simon, Fort Worth, Tex. Watch-charm. No. 1,007,193; Oct. 31; Sp. p. 5842; Gaz. vol. 171; p. 1066.
Friedman, Oscar J., *et al.* (See Harvey, George L., assignor.)
Friedman, Samuel, New York, N. Y. Snow-melting machine and operating same. No. 999,445; Aug. 1; Sp. p. 500; Gaz. vol. 169; p. 88.
Friedman, Samuel N., New York, N. Y. Bolt mechanism for doors. No. 993,235; May 23; Sp. p. 5146; Gaz. vol. 166; p. 926.
Friedman, Sigmund, Gorgona, Panama. Tie-plate. No. 997,664; July 11; Sp. p. 2225; Gaz. vol. 168; p. 393.
Friedmann, Hans, New York, N. Y. Lace measuring and winding machine. No. 1,000,167; Aug. 8; Sp. p. 2016; Gaz. vol. 169; p. 361.
Friedmann, Theodor. (See Kukelka, Ludmilla, assignor.)
Friedrich, Carl T., near Atkinson, Nebr. Undercheck. No. 997,386; July 11; Sp. p. 1653; Gaz. vol. 168; p. 299.
Friedrich, Hermann. (See Zaertling and Friedrich.)
Friedrichs, Louis, Göttingen, Germany. Safety device for valves. No. 996,013; June 20; Sp. p. 4167; Gaz. vol. 167; p. 725.
Friedrichsen, Heinrich, Berlin, Germany, assignor to General Electric Company. Arc-lamp. No. 991,495; May 9; Sp. p. 1428; Gaz. vol. 166; p. 269
Friedrichsen, Will, Miles, Iowa. Vehicle-spring. No. 993,236; May 23; Sp. p. 5150; Gaz. vol. 166; p. 926.
Friel, Patrick H., Buffalo, N. Y. Lock-seam tube. No. 993,978; May 30; Sp. p. 6731; Gaz. vol. 166; p. 1211.
Friel, Patrick H., Kenosha, Wis. Plate-metal tubing. No. 997,799; July 11; Sp. p. 2579; Gaz. vol. 168; p. 442.
Friend, David H., Canton, Ohio. Insulator. No. 986,702; Mar. 14; Sp. p. 2000; Gaz. vol. 164; p. 352.
Friend, Reuben B., and C. Liverman, Petersburg, Va. Car-door. No. 990,537; Apr. 25; Sp. p. 4892; Gaz. vol. 165; p. 853.
Friend, Theodore E., Norwalk, Ohio. Internal-combustion engine. No. 1,005,701; Oct. 10; Sp. p. 2491; Gaz. vol. 171; p. 427.
Frierson, William H. (See Todd, John P., assignor.)
Fries, Albert N., Cincinnati, Ohio. Window-shade catch-pulley. No. 990,431; Apr. 25; Sp. p. 4645; Gaz. vol. 165; p. 817.
Friese, Edward A., Kansas City, Mo. Dispensing apparatus. No. 1,012,621; Dec. 26; Sp. p. 4930; Gaz. vol. 173; p. 887.
Friesen, Henry M., and H. H. Nikkel, Altona, Manitoba, Canada. Grain-shocker. No. 984,897; Feb. 21; Sp. p. 3540; Gaz. vol. 163; p. 626.
Frigon, Jeffry, Barre, Vt. Reel for hose. No. 988,766; Apr. 4; Sp. p. 1028; Gaz. vol. 165; p. 163.
Frink, Gerald, Seattle, Wash. Derrick. No. 984,898; Feb. 21; Sp. p. 3544; Gaz. vol. 163; p. 626.
Frink, Robert L., Belle Vernon, assignor to Window Glass Machine Company, Pittsburg, Pa. Oil and gas burner. No. 982,584; Jan. 24; Sp. p. 5302; Gaz. vol. 162; p. 914.
Frink, Robert L., Belle Vernon, assignor to Window Glass Machine Company, Pittsburg, Pa. Glass pot and kiln. No. 988,454; Apr. 4; Sp. p. 350; Gaz. vol. 165; p. 57.
Frisbie, Jonathan S., Rotan, Tex. Fan attachment for dental engines. No. 980,238; Jan. 3; Sp. p. 115; Gaz. vol. 162; p. 23.
Frisbie, William B., Lyndonville, N. Y. Variable-speed pulley. No. 980,239; Jan. 3; Sp. p. 116; Gaz. vol. 162; p. 23.
Frisby, Addeline F., Chicago, Ill. Device for sunning and airing bedding. No. 1,002,510; Sept. 5; Sp. p. 734; Gaz. vol. 170; p. 108.

Alphabetical list of patentees—Continued.

Frisby, Daniel B., Bristow, Iowa. Harrow-cart. No. 991,966; May 9; Sp. p. 2414; Gaz. vol. 166; p. 429.
Frisch, George. (See Kissinger and Frisch.)
Frisch, Paul, Berlin, Germany. Surgical forceps. No. 984,756; Feb. 21; Sp. p. 3275; Gaz. vol. 163; p. 578.
Frisz, Anna R., Terre Haute, Ind. Culinary utensil. No. 1,010,037; Nov. 28; Sp. p. 5295; Gaz. vol. 172; p. 949.
Fritchey, Franklin W., Sandusky, Ohio. Wrench. No. 1,003,247; Sept. 12; Sp. p. 2342; Gaz. vol. 170; p. 402.
Fritchle Automobile & Battery Co. (See Fritchle, Oliver P., assignor.)
Fritchle, Oliver P., assignor to Fritchle Automobile & Battery Co., Denver, Colo. Storm-apron for vehicles. No. 995,450; June 20; Sp. p. 2955; Gaz. vol. 167; p. 527.
Fritsch, Gustav, Gross-Lichterfelde, near Berlin, and M. Brundelius, Berlin, Germany. Automatic repeating, sporting, and other small-arm. No. 1,003,248; Sept. 12; Sp. p. 2343; Gaz. vol. 170; p. 402.
Fritsch, Joseph, Sedro Woolley, Wash. Fly-trap. No. 1,005,530; Oct. 10; Sp. p. 2084; Gaz. vol. 171; p. 367.
Fritsche, John, Philadelphia, Pa. Vending-machine. No. 1,010,888; Dec. 5; Sp. p. 1086; Gaz. vol. 173; p. 170.
Fritts, Dayton R. (See Parry, Marvin E., assignor.)
Fritts, Homer O., L. M., and W. H., Sheldon, Iowa. Advertising-counter. No. 993,237; May 23; Sp. p. 5151; Gaz. vol. 166; p. 927.
Fritts, Langdon M. (See Fritts, Homer O., L. M., and W. H.)
Fritts, William H. (See Fritts, Homer O., L. M., and W. H.)
Fritz, Adolph W., Burlington, Iowa. Pneumatic spring. No. 1,009,498; Nov. 21; Sp. p. 4194; Gaz. vol. 172; p. 722.
Fritz, Felix E., assignor to Society Bremer Linoleumwerke Delmenhorst, Delmenhorst, Germany. Making plates of linoleum composition for producing blocks for the manufacture of continuously-grained linoleum. No. 1,001,836; Aug. 29; Sp. p. 5638; Gaz. vol. 169; p. 1032.
Fritz, Henry J., Bluffton, Ind. Fence-post. No. 997,053; July 4; Sp. p. 981; Gaz. vol. 168; p. 157.
Fritz, Herman C., Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Nozzle-reinforcing means. No. 987,226; Mar. 21; Sp. p. 3098; Gaz. vol. 164; p. 562.
Fritz, John H., Webb City, Mo. Drill former and sharpener. No. 990,538; Apr. 25; Sp. p. 4895; Gaz. vol. 165; p. 854.
Fritz, John L., *et al.* (See Voigt, Charles L., assignor.)
Fritz, Julius, Petaluma, Cal. Trap-net. No. 996,234; June 27; Sp. p. 4684; Gaz. vol. 167; p. 835.
Fritz, Julius, Petaluma, Cal. Potato-digger. No. 1,008,897; Nov. 14; Sp. p. 2832; Gaz. vol. 172; p. 476.
Fritz, Julius, Newark, S. D. Potato digger and loader. No. 1,008,534; Nov. 14; Sp. p. 2053; Gaz. vol. 172; p. 350.
Fritz, Julius, Newark, S. D. Grain-shocker. No. 1,008,596; Nov. 14; Sp. p. 2197; Gaz. vol. 172; p. 375.
Fritz, Julius L., assignor of one-half to A. H. Oman, Philadelphia, Pa. Carbureter. No. 993,770; May 30; Sp. p. 6334; Gaz. vol. 166; p. 1142.
Fritz, Louis. (See Franck, Sommers, and Fritz.)
Fritz, Samuel A., Pittsburg, Pa. Antislipping attachment for horseshoes. No. 981,632; Jan. 17; Sp. p. 3273; Gaz. vol. 162; p. 555.
Fritz, Walter, Berlin, Germany. Stuffing-box for rotary parts. No. 1,005,954; Oct. 17; Sp. p. 3048; Gaz. vol. 171; p. 549.
Fritz, Walter, Berlin, Germany, assignor to General Electric Company. Bucket for elastic-fluid turbines. No. 994,254; June 6; Sp. p. 315; Gaz. vol. 167; p. 54.
Fritzsche, Walther, Crefeld-Bockum, Germany. Treating paper in the preparation of imitation stained glass. No. 1,010,038; Nov. 28; Sp. p. 5296; Gaz. vol. 172; p. 949.
Friválszky, Gusztav, Chicago, Ill. Trolley. No. 1,010,889; Dec. 5; Sp. p. 1091; Gaz. vol. 173; p. 171.
Froberg Aeroplane Co., The. (See Froberg, Johan R., assignor.)
Froberg, Johan R., Goldfield, Nev. Airship. No. 998,844; July 25; Sp. p. 4909; Gaz. vol. 168; p. 884.
Froberg, Johan R., assignor to The Froberg Aeroplane Co., Richmond, Cal. Aerial machine. No. 1,012,836; Dec. 26; Sp. p. 5423; Gaz. vol. 173; p. 962.
Froeckman, William A., assignor of one-half to P. P. Finnegan, St. Louis, Mo. Combined telegraph, signal, and telephone system. No. 1,004,767; Oct. 3; Sp. p. 474; Gaz. vol. 171; p. 78.
Froehlich, Charles, Brooklyn, N. Y. Hat-holding device. No. 1,003,731; Sept. 19; Sp. p. 3370; Gaz. vol. 170; p. 602.
Froehlich, Frank A., Philadelphia, Pa. Reversing-gear mechanism. No. 994,739; June 13; Sp. p. 1404; Gaz. vol. 167; p. 261.
Froehlich, Joseph, assignor to F. L. Schmidt, New York, N. Y. Envelop and similar machine. No. 1,006,645; Oct. 24; Sp. p. 4608; Gaz. vol. 171; p. 821.
Froehlich, Joseph, New York, N. Y., assignor to Continental Paper Bag Company. Paper-bag machine. No. 1,007,856; Nov. 7; Sp. p. 491; Gaz. vol. 172; p. 73.
Froehlich, Max, Rasatatt, Germany, assignor of one-half to R. H. Froehlich, one-sixth to R. B. Gregg, Stuttgart, Ark., and one-third to E. C. Post, Ann Arbor, Mich. Traction-wheel. No. 1,002,665; Sept. 5; Sp. p. 1068; Gaz. vol. 170; p. 160.
Froehlich, Rudolf H., *et al.* (See Froehlich, Max, assignor.)
Frohlich, Charles. (See Evenden and Frohlich.)
Frohlich, Charles, assignor to Klauder-Weldon Dyeing Machine Company, Amsterdam, N. Y. Dyeing-machine. No. 999,304; Aug. 1; Sp. p. 212; Gaz. vol. 169; p. 40.
Fröhlich, Jaroslav. (See Engi and Fröhlich.)
Fröhlich, Otto, assignor to Berlin-Anhaltische Maschinenbau-Aktiengesellschaft, Berlin, Germany. Receptacle for liquids. No. 1,005,531; Oct. 10; Sp. p. 2086; Gaz. vol. 171; p. 367.
Fromhold, Alexander, Rutherford, N. J., assignor to S. H. Pomeroy Company, New York, N. Y. Metallic window-frame, &c. No. 996,845; July 4; Sp. p. 506; Gaz. vol. 168; p. 83.
Fromhold, Alexander, Rutherford, N. J., assignor to S. H. Pomeroy Company, New York, N. Y. Window construction. No. 996,846; July 4; Sp. p. 507; Gaz. vol. 168; p. 83.
Fromm, John F., Rochester, N. Y. Brushing-machine. No. 985,521; Feb. 28; Sp. p. 4932; Gaz. vol. 163; p. 874.
Frommann, Franklin A., St. Louis, Mo. Wheel. No. 1,009,062; Nov. 21; Sp. p. 3204; Gaz. vol. 172; p. 568.
Frommer, Rudolf, Budapest, Austria-Hungary. Trigger device for firearms. No. 985,156; Feb. 28; Sp. p. 4105; Gaz. vol. 163; p. 747.
Frommer, Rudolf, Budapest, Austria-Hungary. Automatic firearm. No. 988,996; Apr. 11; Sp. p. 1489; Gaz. vol. 165; p. 261.
Frommer, Rudolf, Budapest, Austria-Hungary. Firearm. No. 989,242; Apr. 11; Sp. p. 2006; Gaz. vol. 165; p. 344.
Frommer, Rudolph, Budapest, Austria-Hungary. Automatic firearm. No. 992,184; May 16; Sp. p. 2870; Gaz. vol. 166; p. 534.
Frömsdorf, Robert, Leipzig-Eutritzsch, assignor to L. Hupfeld Aktiengesellschaft, Leipzig, Germany. Tone-modulator for pneumatically-operated musical instruments. No. 1,000,594; Aug. 15; Sp. p. 2977; Gaz. vol. 169; p. 544.
Froslid, Anton S., assignor to Silkworth-Froslid Machinery Company, Portland, Oreg. Log-sawmill. No. 981,255; Jan. 10; Sp. p. 2490; Gaz. vol. 162; p. 405.
Frost, Charles G. (See Meacham, Aldah R., assignor.)
Frost, Charles H., Pasadena, Cal., assignor to Los Angeles Pressed Brick Co. Brickmaking-machine. No. 1,004,406; Sept. 26; Sp. p. 4866; Gaz. vol. 170; p. 860.
Frost, Charles W., Philadelphia, Pa. Joint for building-blocks. No. 1,000,395; Aug. 15; Sp. p. 2517; Gaz. vol. 169; p. 470.
Frost, Edward J., Jackson, Mich. Adjustable bearing. No. 994,452; June 6; Sp. p. 717; Gaz. vol. 167; p. 123.
Frost, Edward J., Jackson, Mich. Gear. No. 998,686; July 25; Sp. p. 4547; Gaz. vol. 168; p. 829.
Frost, Edward P., Portland, Oreg. Combined holder and cutter for mileage railway-tickets. No. 1,011,888; Dec. 12; Sp. p. 3342; Gaz. vol. 173; p. 554.
Frost, Fritz, San Francisco, Cal. Combined fastener and fence-post. No. 990,432; Apr. 25; Sp. p. 4647; Gaz. vol. 165; p. 817.
Frost Gear & Machine Co. (See Marsh, Allan H., assignor.)
Frost, Harold L. (See Prior, Matthew, assignor.)
Frost, Homer E., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Motor-control system. No. 1,005,638; Oct. 10; Sp. p. 2355; Gaz. vol. 171; p. 404.
Frost, John B., Jefferson, N. H., assignor, by mesne assignments, to J. H. Hardwick, Cleveland, Ohio. Wheel. No. 996,575; June 27; Sp. p. 5434; Gaz. vol. 167; p. 950.
Frost, Newland E., Chicago, Ill. Vacuum system for use in connection with heating, refrigerating, evaporating, and other apparatus. No. 1,012,837; Dec. 26; Sp. p. 5426; Gaz. vol. 173; p. 963.
Frost, Orin C., New York, N. Y. Device to facilitate writing by the blind. No. 980,623; Jan. 3; Sp. p. 955; Gaz. vol. 162; p. 155.
Frost, Walter E., Lewiston, Me. Nail. No. 1,012,622; Dec. 26; Sp. p. 4934; Gaz. vol. 173; p. 887.
Frost, Walter J., Kenosha, Wis. Water-closet fixture. No. 1,010,610; Dec. 5; Sp. p. 473; Gaz. vol. 173; p. 74.
Frost, Warren H., Los Angeles, Cal. Gas-scrubber. No. 998,491; July 18; Sp. p. 4107; Gaz. vol. 168; p. 728.
Frost, William. (See Bradoc and Frost.)
Frühling, Otto, Brunswick, Germany. Apparatus for discharging dredge-hoppers and the like. No. 1,012,196; Dec. 19; Sp. p. 4060; Gaz. vol. 173; p. 697.
Fruin, John L., New York, N. Y. Flushing-tank. No. 1,005,189; Oct. 10; Sp. p. 1319; Gaz. vol. 171; p. 245.
Frusher, Tom and T., Jr., Brooklyn, N. Y. Dyeing and bleaching machine. No. 1,000,251; Aug. 8; Sp. p. 2189; Gaz. vol. 169; p. 390.
Frusher, Tom, Jr. (See Frusher, Tom and T., Jr.)
Frutchey, Reed G. (See Scott, Homer W., assignor.)
Fry, John, Ridgefield, Conn. Swinging and tilting blinds. No. 1,004,563; Oct. 3; Sp. p. 33; Gaz. vol. 171; p. 7.

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Fry, Marion W., near Plain City, Ohio. Wire-splicer. No. 985,023; Feb. 21; Sp. p. 3782; Gaz. vol. 163; p. 667.
Fry, Toy B., Mesquite, Tex. Window and roof jack. No. 980,240; Jan. 3; Sp. p. 118; Gaz. vol. 162; p. 23.
Fry, William A., W. C. Darby, and T. H. Kershaw, Pueblo, Colo. Device for molding concrete walls. No. 1,003,591; Sept. 19; Sp. p. 3066; Gaz. vol. 170; p. 553.
Frye, Gertrude, Eureka, Kans. Sewing-machine guard. No. 991,496; May 9; Sp. p. 1428; Gaz. vol. 166; p. 269.
Frye, Lee E., assignor to N. B. Douglass, San Francisco, Cal. Apartment-bed. No. 1,005,532; Oct. 10; Sp. p. 2088; Gaz. vol. 171; p. 367.
Frykberg, Jacob, Chicopee Falls, Mass. Air-transmitter. No. 1,000,505; Aug. 15; Sp. p. 2757; Gaz. vol. 169; p. 510.
Fryman, Nicholas, Arcanum, Ohio. Folding chair. No. 1,001,193; Aug. 22; Sp. p. 4294; Gaz. vol. 169; p. 783.
Fuchs, Albert, Evansville, Ind. Automatic davenport. No. 998,890; July 25; Sp. p. 5021; Gaz. vol. 168; p. 901.
Fuchs, Alois, Leipzig-Lindenau, and F. Tillmanns, Leipzig-Gohlis, Germany. Horseshoe. No. 981,754; Jan. 17; Sp. p. 3514; Gaz. vol. 162; p. 595.
Fuchs, Ernest, Guadalajara, Mexico. Watch-charm. No. 992,648; May 16; Sp. p. 3901; Gaz. vol. 166; p. 696.
Fuchs and Lang Manufacturing Company. (See Ford, Albert J., assignor.)
Fuchs & Lang Manufacturing Company, The. (See North, Thomas M., assignor.)
Fuchs, Leon, Dayton, Ohio, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Micrometer-protractor. No. 991,839; May 9; Sp. p. 2167; Gaz. vol. 166; p. 386.
Fuchs, Leonhard, Rochester, N. Y. Automobile fire-engine. No. 1,007,551; Oct. 31; Sp. p. 6600; Gaz. vol. 171; p. 1190.
Fucito, Luigi. (See Marrone, Michael, assignor.)
Fuegmann, Paul. (See Müller and Fuegmann.)
Fuel Engineering Company of New York. (See Evans and Beckett, assignors.)
Fuel Oil Engine Company. (See Murphy, George F., assignor.)
Fuellgraff, Agnes S., Chicago, Ill. Gas-heater. No. 1,001,519; Aug. 22; Sp. p. 4942; Gaz. vol. 169; p. 893.
Fuerst, William H., Kewanee, Ill. Chalk-line reel. No. 999,641; Aug. 1; Sp. p. 873; Gaz. vol. 169; p. 152.
Fuerst, William H., Kewanee, Ill. Newspaper-vending machine. No. 1,008,130; Nov. 7; Sp. p. 1033; Gaz. vol. 172; p. 163.
Fuerth, William G., assignor to Equilibrator Company, Newark, N. J. Stencil sheet, process, &c. No. 995,780; June 20; Sp. p. 3694; Gaz. vol. 167; p. 645.
Fugate, T. Watkins. (See Byron, Orra E., assignor.)
Fugere, Edward J., Turners Falls, Mass. Screw-stock and tap-wrench. No. 997,665; July 11; Sp. p. 2226; Gaz. vol. 168; p. 393.
Fugman, Anna L. F. (See Fugman, Godfrey, assignor.)
Fugman, Godfrey, Cleveland Heights, assignor to A. L. F. Fugman, Cleveland, Ohio. Collapsible building. No. 981,992; Jan. 17; Sp. p. 4077; Gaz. vol. 162; p. 680.
Fuhrer, Paul, Greeley, Colo. Combined mop head and wringer. No. 991,054; May 2; Sp. p. 464; Gaz. vol. 166; p. 81.
Fuhrman, Herman C., assignor to The Tokheim Mfg. Co., Cedar Rapids, Iowa. Means for automatically draining pumps. No. 1,003,592; Sept. 19; Sp. p. 3068; Gaz. vol. 170; p. 553.
Fuhrmann, Warren, Newark, N. J. Miter-box. No. 1,006,201; Oct. 17; Sp. p. 3606; Gaz. vol. 171; p. 635.
Fuld, William, Baltimore, Md. Pool-table. No. 1,002,666; Sept. 5; Sp. p. 1069; Gaz. vol. 170; p. 161.
Fulford, Charles F., Rochester, N. Y. Oil-can. No. 1,006,078; Oct. 17; Sp. p. 3300; Gaz. vol. 171; p. 589.
Fulford, Elijah D., deceased, Utica, N. Y.; M. Fulford, administratrix, assignor to H. C. Lord, Erie, Pa. Target-throwing trap. No. 986,815; Mar. 14; Sp. p. 2249; Gaz. vol. 164; p. 390.
Fulford, Matilda, administratrix. (See Fulford, Elijah D.)
Fulford, Stanley L., assignor of one-fourth to B. A. Brown, Los Angeles, Cal. Multiple pump. No. 992,493; May 16; Sp. p. 3578; Gaz. vol. 166; p. 642.
Fulk, Gilbert V., Painesville, Ohio, assignor, by mesne assignments, to The Postal Supply & Manufacturing Company. Printing-machine. No. 1,006,474; Oct. 24; Sp. p. 4212; Gaz. vol. 171; p. 759.
Fulks, Jacob A., Water Proof, La. Animal-trap. No. 1,011,605; Dec. 12; Sp. p. 2747; Gaz. vol. 173; p. 460.
Fullagar, Hugh F., Newcastle-upon-Tyne, England. Internal-combustion engine. No. 995,857; June 20; Sp. p. 3864; Gaz. vol. 167; p. 671.
Fullagar, Hugh F., Newcastle-upon-Tyne, England. Internal-combustion engine. No. 995,858; June 20; Sp. p. 3868; Gaz. vol. 167; p. 672.
Fullard, William, North Plainfield, assignor of one-third to M. E. Lynch and one-third to M. Harrington, Bloomfield, N. J. Railway-tie. No. 994,453; June 6; Sp. p. 718; Gaz. vol. 167; p. 123.
Fullenweider, Henry N., Waveland, Ind. Igniter. No. 983,489; Feb. 7; Sp. p. 498; Gaz. vol. 163; p. 80.
Fuller, Albert. (See Hiering and Fuller.)
Fuller, Allen A., Birmingham, Ala. Automatic signaling apparatus for elevators. No. 1,012,623; Dec. 26; Sp. p. 4935; Gaz. vol. 173; p. 887.
Fuller, Donald, Detroit, Mich. Window-display mechanism. No. 1,002,911; Sept. 12; Sp. p. 1650; Gaz. vol. 170; p. 285.
Fuller, Edward, Baltimore, Md. Machine for coating cakes. No. 996,479; June 27; Sp. p. 5245; Gaz. vol. 167; p. 920.
Fuller, Franz A., assignor to J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 997,611; July 11; Sp. p. 2104; Gaz. vol. 168; p. 374.
Fuller, Frederick L., Trenton, N. J., assignor to The National Cash Register Company, Dayton, Ohio. Adding mechanism for cash-registers, &c. No. 981,633; Jan. 17; Sp. p. 3274; Gaz. vol. 162; p. 556.
Fuller, Frederick L., Trenton, N. J., assignor, by mesne assignments, to The National Cash Register Company. Cash-register. No. 1,003,732; Sept. 19; Sp. p. 3372; Gaz. vol. 170; p. 603.
Fuller, Gaius C., New York, N. Y. Folding bed. No. 997,284; July 11; Sp. p. 1445; Gaz. vol. 168; p. 266.
Fuller, George R., *et al.* (See Garretson, Eugene, assignor.)
Fuller, Harold. (See Corthesy, Jules H., assignor.)
Fuller, Henry W., Globe, Ariz. Fuse-lighter. No. 997,800; July 11; Sp. p. 2580; Gaz. vol. 168; p. 442.
Fuller, James E., New York, N. Y. Locking means for pivoted tools. No. 996,235; June 27; Sp. p. 4686; Gaz. vol. 167; p. 835.
Fuller, James E., New York, N. Y. Leather-punch. No. 1,012,838; Dec. 26; Sp. p. 5431; Gaz. vol. 173; p. 963.
Fuller & Johnson Manufacturing Company. (See Winkley, Frank D., assignor.)
Fuller, Lawson M., assignor to Velie Motor Vehicle Company, Moline, Ill. Automobile-body construction. No. 982,422; Jan. 24; Sp. p. 4962; Gaz. vol. 162; p. 858.
Fuller Manufacturing Company, The. (See Duffy, James W., assignor.)
Fuller, Martha M., Caldwell, Idaho. Twine-holder. No. 1,007,552; Oct. 31; Sp. p. 6605; Gaz. vol. 171; p. 1191.
Fuller, Richard W., Woodward county, Okla. Concrete-wall-molding device. No. 1,005,016; Oct. 3; Sp. p. 979; Gaz. vol. 171; p. 163.
Fuller, Rodolphus, Detroit, Mich. Electric-motor control. No. 994,993; June 13; Sp. p. 1983; Gaz. vol. 167; p. 347.
Fuller, Rodolphus, Detroit, Mich. Motor-vehicle. No. 1,001,837; Aug. 29; Sp. p. 5639; Gaz. vol. 169; p. 1032.
Fuller, Russell B., Evansville, Ind. Shipping-basket. No. 1,007,857; Nov. 7; Sp. p. 493; Gaz. vol. 172; p. 74.
Fuller, Vitelles C., Frankfort, Ind. Candy-depositing machine. No. 989,700; Apr. 18; Sp. p. 3020; Gaz. vol. 165; p. 531.
Fuller, William A., *et al.* (See Thompson and Netter, assignors.)
Fullerton, John D., Boston, Mass. Internal-combustion engine. No. 1,000,085; Aug. 8; Sp. p. 1844; Gaz. vol. 169; p. 333.
Fullerton, William S., St. Paul, Minn. X-ray apparatus. No. 981,256; Jan. 10; Sp. p. 2492; Gaz. vol. 162; p. 405.
Fulmer, Lewis V., Owosso, Mich. Coaster-brake. No. 1,009,901; Nov. 28; Sp. p. 4995; Gaz. vol. 172; p. 902.
Fulson, Charles H., West Monroe, assignor of one-half to J. W. Todd, New Orleans, La. Cotton-seed linter. No. 1,005,955; Oct. 17; Sp. p. 3050; Gaz. vol. 171; p. 549.
Fulton, Alpheus, Table Rock, Nebr. Mortising device. No. 991,840; May 9; Sp. p. 2169; Gaz. vol. 166; p. 386.
Fulton Chemical Company. (See Richie, Grant, assignor.)
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton, Harmon H., *et al.* (See Buckman, Henry H., Jr., assignor.)
Fulton, Jacob A., Astoria, Oreg. Appliance for subjecting portions of the human system to heat or cold. No. 1,011,606; Dec. 12; Sp. p. 2749; Gaz. vol. 173; p. 460.
Fulton, Jacob A., Astoria, Oreg. Surgical implement. No. 1,011,607; Dec. 12; Sp. p. 2750; Gaz. vol. 173; p. 461.
Fulton, James E., Athens, Ill. Brood-coop. No. 986,703; Mar. 14; Sp. p. 2001; Gaz. vol. 164; p. 352.
Fulton, Louis B., Pittsburgh, Pa. Feed-water regulator. No. 1,010,890; Dec. 5; Sp. p. 1093; Gaz. vol. 173; p. 171.
Fulton, Mahlon, Philadelphia, Pa. Fuel. No. 993,446; May 30; Sp. p. 5611; Gaz. vol. 166; p. 1029.
Fulton Manufacturing Company. (See Adams, Arthur J., assignor.)
Fulton, Samuel M., Pomona, Cal. Pumping-head. No. 997,445; July 11; Sp. p. 1759; Gaz. vol. 168; p. 319.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Temperature-regulator. No. 987,712; Mar. 28; Sp. p. 4128; Gaz. vol. 164; p. 756.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Heating system and system for temperature regulation. No. 998,767; July 25; Sp. p. 4746; Gaz. vol. 168; p. 858.
Fulton, William, South Beloit, Ill., assignor of one-half to C. E. Smith, Beloit, Wis. Carbureter. No. 1,003,351; Sept. 12; Sp. p. 2552; Gaz. vol. 170; p. 439.
Fulton, William G., and C. W. Busch, Chicago, Ill. Game device. No. 1,008,898; Nov. 14; Sp. p. 2835; Gaz. vol. 172; p. 477.

Alphabetical list of patentees—Continued.

Fulton, William M., Brandon, Manitoba, Canada. Machine for packing subsurface soil. No. 995,592; June 20; Sp. p. 3279; Gaz. vol. 167; p. 578.
Fultz, Fred, *et al.* (See O'Brien, James F., assignor.)
Funderburg, Jesse, Piqua, Ohio. Railway-switch. No. 1,006,743; Oct. 24; Sp. p. 4800; Gaz. vol. 171; p. 854.
Funk Brothers. (See Dodson, Charles I., assignor.)
Funk, Captain P., Jeromeville, Ohio. Resilient wheel. No. 989,701; Apr. 18; Sp. p. 3021; Gaz. vol. 165; p. 532.
Funk, Charles W., Withee, Wis. Stock water-tank. No. 1,013,008; Dec. 26; Sp. p. 5829; Gaz. vol. 173; p. 1019.
Funk, John G., Swissvale, Pa. Vehicle-tire. No. 988,997; Apr. 11; Sp. p. 1491; Gaz. vol. 165; p. 261.
Funk, Levi L., Chicago, Ill. Tooth-brush. No. 986,051; Mar. 7; Sp. p. 635; Gaz. vol. 164; p. 102.
Funk, Levi L., Chicago, Ill. Soldering-tool. No. 1,006,543; Oct. 24; Sp. p. 4396; Gaz. vol. 171; p. 786.
Funkhouser, John B., deceased, (S. B. Funkhouser, administratrix,) assignor of one-fourth to W. H. Funkhouser, New Brighton, Pa. Nut-lock. No. 997,249; July 4; Sp. p. 1366; Gaz. vol. 168; p. 223.
Funkhouser, Sarah B., administratrix. (See Funkhouser, John B.)
Funkhouser, William H. (See Funkhouser, John B., assignor.)
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Belt for abrading-machines. No. 1,004,009; Sept. 26; Sp. p. 4002; Gaz. vol. 170; p. 724.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon soles. No. 1,007,685; Nov. 7; Sp. p. 56; Gaz. vol. 172; p. 11.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-blacking machine. No. 1,007,777; Nov. 7; Sp. p. 276; Gaz. vol. 172; p. 45.
Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Belt for abrading-machines. No. 1,009,709; Nov. 21; Sp. p. 4584; Gaz. vol. 172; p. 790.
Furber, Frederick M., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus for applying gum or other fluid or semi-fluid materials. No. 1,004,768; Oct. 3; Sp. p. 478; Gaz. vol. 171; p. 79.
Furbos, Frank R., and B. T. Lumpkin, Rock Island, Ill. Planter. No. 1,010,491; Dec. 5; Sp. p. 197; Gaz. vol. 173; p. 33.
Furey, William D., assignor of one-half to W. T. Anderson, Norfolk, Va. Tire. No. 987,292; Mar. 21; Sp. p. 3240; Gaz. vol. 164; p. 585.
Furlong, James E., Graysville, Tenn. Flushing apparatus. No. 989,496; Apr. 11; Sp. p. 2534; Gaz. vol. 165; p. 429.
Furlow, Floyd C. (See Baldwin and Furlow.)
Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Automatic limit-stop. No. 986,377; Mar. 7; Sp. p. 1301; Gaz. vol. 164; p. 211.
Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Fluid-dash-pot buffer device. No. 986,378; Mar. 7; Sp. p. 1306; Gaz. vol. 164; p. 211.
Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Speed-regulator and stop-motion device for plunger-elevators. No. 1,005,190; Oct. 10; Sp. p. 1321; Gaz. vol. 171; p. 245.
Furlow, Floyd C., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Bottom automatic limit-stop for plunger-elevators. No. 1,011,338; Dec. 12; Sp. p. 2131; Gaz. vol. 173; p. 364.
Furnace Patent Company, The. (See Wedge, Utley, assignor.)
Furnas, Linus T. (See Morris, Laura E., assignor.)
Furrh, Elijah, Grand Saline, Tex. Wrench. No. 995,668; June 20; Sp. p. 3437; Gaz. vol. 167; p. 605.
Fürst, Sándor, and G. Bankó, New York, N. Y. Flushing-tank for closets. No. 1,000,728; Aug. 15; Sp. p. 3261; Gaz. vol. 169; p. 590.
Fürstenheim, Firm of Louis. (See Scooler, Sidney, assignor.)
Furtardo, John S., New Bedford, Mass. Thread-guide for spinning-machines. No. 990,724; Apr. 25; Sp. p. 5302; Gaz. vol. 165; p. 914.
Fusner, Jesse L., assignor to Eagle Glass & Manufacturing Company, Wellsburg, W. Va. Hollow sheet-metal article. No. 993,049; May 23; Sp. p. 4768; Gaz. vol. 166; p. 867.
Fussenegger, Ernst. (See Julius and Fussenegger.)
Fussenegger, Ernst. (See Villiger and Fussenegger.)
Futer, Jacob E. (See Johnston and Futer.)
Futterknecht, Adolph, Pernau, Livland, Russia. System of type-levers for type-writing machines. No. 1,006,202; Oct. 17; Sp. p. 3608; Gaz. vol. 171; p. 635.
Futterknecht, Charles, J. A. Roth, Mishawaka, Ind., and A. T. Maenche, Waltham, Mass. Sole-protector for boots and shoes. No. 995,245; June 13; Sp. p. 2478; Gaz. vol. 167; p. 429.
Fyfe, Alexander C., Weehawken, N. J. Pommeling-machine. No. 990,539; Apr. 25; Sp. p. 4896; Gaz. vol. 165; p. 854.
Fynn, Valère A., Blackheath, England. Alternate-current motor. No. 993,359; May 30; Sp. p. 5416; Gaz. vol. 166; p. 1000.
Fynn, Valère A., London, England. Alternating-current motor. No. 994,381; June 6; Sp. p. 589; Gaz. vol. 167; p. 101.
Fynn, Valère A., London, England. Alternating-current motor. No. 994,382; June 6; Sp. p. 591; Gaz. vol. 167; p. 101.
Fynn, Valère A., London, England. Alternating-current motor. No. 1,010,135; Nov. 28; Sp. p. 5482; Gaz. vol. 172; p. 982.
Fynn, Valère A., London, England, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Dynamo-electric machine. No. 1,002,383; Sept. 5; Sp. p. 469; Gaz. vol. 170; p. 66.
Fynn, Valère A., London, England, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Dynamo-electric machine. No. 1,006,744; Oct. 24; Sp. p. 4803; Gaz. vol. 171; p. 854.
G. Roth Aktiengesellschaft. (See Deubler, Franz, assignor.)
G. A. Swineford Company, The. (See Maddrell, Thomas J., assignor.)
G. A. Swineford Company, The. (See Swineford, George A., assignor.)
G. B. Lewis Company. (See Mollart, Lobegott, assignor.)
G. W. Baker Machine Company. (See Baker, George W., assignor.)
Gaara, Halvor, Bö, Norway. Machine for manufacturing paper, boards, and the like from pulp. No. 983,700; Feb. 7; Sp. p. 959; Gaz. vol. 163; p. 152.
Gaara, Halvor, Bö, Norway. Steering device for aeroplanes and the like. No. 997,612; July 11; Sp. p. 2105; Gaz. vol. 168; p. 375.
Gabeau, Madeleine, Paris, France. Breast-supporter. No. 1,009,297; Nov. 21; Sp. p. 3739; Gaz. vol. 172; p. 651.
Gable, Franklin P., and A. C. Buttman, Grandview, Iowa. Horse-detaching device. No. 1,006,842; Oct. 24; Sp. p. 5049; Gaz. vol. 171; p. 890.
Gable, George, Fairpoint, Ohio. Closure for jars or the like. No. 984,658; Feb. 21; Sp. p. 3061; Gaz. vol. 163; p. 542.
Gabler, Benjamin, Harbor Beach, Mich. Automatic cup. No. 982,585; Jan. 24; Sp. p. 5303; Gaz. vol. 162; p. 914.
Gabler, Johannes, assignor of one-half to B. Elmendorf, Isselhorst, Germany. Automatic refilling device for loom-shuttles. No. 1,005,017; Oct. 3; Sp. p. 983; Gaz. vol. 171; p. 164.
Gabriel, Carl A., Underwood, Minn. Post-driving machine. No. 997,613; July 11; Sp. p. 2106; Gaz. vol. 168; p. 375.
Gabriel, Charles, Chicago, Ill., assignor to National Dump Car Company. Dumping-car. No. 992,555; May 16; Sp. p. 3719; Gaz. vol. 166; p. 665.
Gabriel, Charles R., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Time-lock for submarine mines. No. 1,010,039; Nov. 28; Sp. p. 5297; Gaz. vol. 172; p. 949.
Gabriel, Joseph J., Flint, Mich. Movable serving-table. No. 996,636; July 4; Sp. p. 88; Gaz. vol. 168; p. 16.
Gabrielson, Carl, assignor to L. C. Smith & Bros. Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 983,490; Feb. 7; Sp. p. 500; Gaz. vol. 163; p. 80.
Gabrielson, Carl, assignor to L. C. Smith and Bros. Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 996,576; June 27; Sp. p. 5435; Gaz. vol. 167; p. 951.
Gabrielson, Carl, assignor to L. C. Smith and Bros. Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 997,911; July 11; Sp. p. 2811; Gaz. vol. 168; p. 480.
Gabrielson, John, and K. Karlstrom, Buffalo, N. Y. Curtain-fixture. No. 1,012,348; Dec. 19; Sp. p. 4377; Gaz. vol. 173; p. 749.
Gackenheimer, Jake. (See Seifert, Adolph R. R., assignor.)
Gadd, Charles J., Steelton, assignor of forty-nine one-hundredths to E. P. Pyewell, Lebanon, Pa. Brace tie-plate. No. 983,818; Feb. 7; Sp. p. 1186; Gaz. vol. 163; p. 191.
Gaddie, Lee, Wellington, Kans. Yieldable gearing. No. 1,005,191; Oct. 10; Sp. p. 1324; Gaz. vol. 171; p. 245.
Gadecki, Frank, Mystic, Iowa. Lock. No. 1,004,407; Sept. 26; Sp. p. 4868; Gaz. vol. 170 p. 860.
Gadecki, Frank, Mystic, Iowa. Rail-joint. No. 1,005,639; Oct. 10; Sp. p. 2358; Gaz. vol. 171; p. 405.
Gaebel, Otto, Breslau, Germany. Apparatus for preparing coffee substitutes. No. 995,956; June 20; Sp. p. 4057; Gaz. vol. 167; p. 706.
Gaertner, Ralph A., assignor of one-half to A. D. Mulvey, Seattle, Wash. Releasing-hook. No. 1,008,024; Nov. 7; Sp. p. 818; Gaz. vol. 172; p. 130.
Gaffney, Clara, Johnstown, Pa. Bottle-holder. No. 997,614; July 11; Sp. p. 2108; Gaz. vol. 168; p. 375.
Gage, Burt O., assignor to Warren Steam Pump Company, Warren, Mass. Steam-pump. No. 999,642; Aug. 1; Sp. p. 874; Gaz. vol. 169; p. 152.
Gage, Burt O., Warren, Mass., assignor to Warren Steam Pump Company. Steam-pump. No. 999,711; Aug. 1; Sp. p. 1011; Gaz. vol. 169; p. 176.

Gage, Charles M., assignor of one-fourth to E. B. Phillips and one-fourth to T. F. Graham, East Pepperell, Mass. Treating containers of fibrous material. No. 1,007,086; Oct. 31; Sp. p. 5579; Gaz. vol. 171; p. 1026.
Gage, Edwin L., Toledo, Ohio. Truck-scale. No. 1,006,191; Oct. 17; Sp. p. 3569; Gaz. vol. 171; p. 632.
Gage, William F., assignor of one-third to J. Yopp and one-third to I. G. Reading, Terre Haute, Ind. Garbage-can. No. 994,147; June 6; Sp. p. 90; Gaz. vol. 167; p. 17.
Gagné, William G., Portland, Me. Cooker. No. 985,892; Mar. 7; Sp. p. 291; Gaz. vol. 164; p. 47.
Gagnon, Erasme, Pawtucket, R. I. Loom. No. 982,204; Jan. 17; Sp. p. 4477; Gaz. vol. 162; p. 751.
Gagnon, Francis A., and G. H. Watt, Detroit, Mich. Reversing mechanism for explosive-engines. No. 1,009,023; Nov. 14; Sp. p. 3113; Gaz. vol. 172; p. 518.
Gagnon, Louis P., Willimansett, assignor of one-half to W. Gagnon, Holyoke, Mass. Fuel-igniter. No. 995,246; June 13; Sp. p. 2480; Gaz. vol. 167; p. 429.
Gagnon, William. (See Gagnon, Louis P., assignor.)
Gagnon, William J., assignor to The Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Pendent electrical switch. No. 997,054; July 4; Sp. p. 983; Gaz. vol. 168; p. 157.
Gahlmann, Anton, Clyman, Wis. Overhead-carrier brake. No. 981,079; Jan. 10; Sp. p. 2072; Gaz. vol. 162; p. 341.
Gail, Charles H., assignor, by mesne assignments, to The Simmons Manufacturing Company, Kenosha, Wis. Wire fabric. No. 996,919; July 4; Sp. p. 664; Gaz. vol. 168; p. 108.
Gainer, J. H., *et al.* (See Sterick, Charles W., assignor.)
Gaines, Arthur E., and A. E. Erb, Denver, Colo. Artificial limb. No. 1,008,253; Nov. 7; Sp. p. 1303; Gaz. vol. 172; p. 213.
Gaines, Frederick F., Savannah, Ga., assignor to Standard Railway Equipment Company, East St. Louis, Ill. Car-end construction. No. 996,074; June 27; Sp. p. 4306; Gaz. vol. 167; p. 781.
Gair, George W., F. Broderick, and J. G. Beattie, New York, assignors to Robert Gair Company, Brooklyn, N. Y. Folding paper box. No. 981,993; Jan. 17; Sp. p. 4082; Gaz. vol. 162; p. 681.
Gaiser, Charles A., Toledo, Ohio. Pencil. No. 991,967; May 9; Sp. p. 2415; Gaz. vol. 166; p. 430.
Gaiser, Charles A., Toledo, Ohio. Pencil-sharpener. No. 1,005,018; Oct. 3; Sp. p. 985; Gaz. vol. 171; p. 164.
Gaisman, Henry J., assignor to Auto Strop Company, New York, N. Y. Razor-blade. No. 1,011,938; Dec. 19; Sp. p. 3468; Gaz. vol. 173; p. 607.
Gaither, Charles T., and L. H. Black, Youngstown, Ohio. Spark-plug attachment. No. 999,022; July 25; Sp. p. 5325; Gaz. vol. 168; p. 948.
Gaitley, John E., assignor to Albany Foundry Company, Albany, N. Y. Stove. No. 987,978; Mar. 28; Sp. p. 4758; Gaz. vol. 164; p. 848.
Galay, Boris. (See Galay, Jacob and B.)
Galay, Jacob and B., Moscow, Russia. Applying coatings of metal and collodion to paper, glass, and other materials. No. 1,011,181; Dec. 12; Sp. p. 1760; Gaz. vol. 173; p. 307.
Galbraith, Bertram. (See Barrett and Bostian, assignors.)
Galbraith, Dennis J., Plainfield, N. J. Flashing. No. 1,000,506; Aug. 15; Sp. p. 2758; Gaz. vol. 169; p. 510.
Galbraith, George O., Richmond, Cal. Air-brake. No. 988,998; Apr. 11; Sp. p. 1492; Gaz. vol. 165; p. 262.
Galbraith, Harriet L., Washington, D. C. Heating device. No. 1,011,608; Dec. 12; Sp. p. 2752; Gaz. vol. 173; p. 461.
Galbraith, Warren L. (See Utterback, Galbraith, and Smith.)
Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Motor-control system. No. 986,277; Mar. 7; Sp. p. 1085; Gaz. vol. 164; p. 174.
Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Belt-drive elevator. No. 1,011,423; Dec. 12; Sp. p. 2294; Gaz. vol. 173; p. 392.
Gale, Francis G., Waterville, Quebec, Canada. Bedstead. No. 982,265; Jan. 24; Sp. p. 4622; Gaz. vol. 162; p. 802.
Gale, Francis G., Waterville, Quebec, Canada. Mattress-frame. No. 986,052; Mar. 7; Sp. p. 636; Gaz. vol. 164; p. 102.
Gale, George C., Alameda, Cal. Automatic safety train-line attachment. No. 991,968; May 9; Sp. p. 2418; Gaz. vol. 166; p. 430.
Gale, George C., Alameda, assignor of one-fifth to H. A. Broughton, San Francisco, and two-fifths to F. Seryanivich, Alameda, Cal. Safety train-air-line cut-out cock. No. 980,624; Jan. 3; Sp. p. 956; Gaz. vol. 162; p. 156.
Gale, George W., Greeley, Colo. Concrete-spreader for ditches, sidewalks, and other surfaces. No. 992,649; May 16; Sp. p. 3902; Gaz. vol. 166; p. 696.
Gale, Horace B. (See Mundy, Gale, and Dewing.)
Gale, Horace B., Natick, assignor to Simplex Electric Heating Company, Cambridge, Mass. Method and apparatus for equalizing temperature. No. 983,548; Feb. 7; Sp. p. 633; Gaz. vol. 163; p. 99.
Gale, Horace B., Natick, assignor to Simplex Electric Heating Company, Boston, Mass. Electrically-heated matrix-press. No. 987,293; Mar. 21; Sp. p. 3241; Gaz. vol. 164; p. 585.
Gale, Horace B., Natick, assignor to Simplex Electric Heating Company, Cambridge, Mass. Electric heater. No. 990,124; Apr. 18; Sp. p. 3904; Gaz. vol. 165; p. 675.
Gale, Horace B., Natick, assignor to Simplex Electric Heating Company, Boston, Mass. Electric toaster and griddle. No. 992,417; May 16; Sp. p. 3423; Gaz. vol. 166; p. 616.
Gale, Knight W., Los Angeles, Cal. Telephone-call distinguisher. No. 990,972; May 2; Sp. p. 306; Gaz. vol. 166; p. 53.
Gale Manufacturing Company. (See Beall, William L., assignor.)
Galezio, Edgar. (See Huggins, Leroy A., assignor.)
Galgano, Frank, New Rochelle, N. Y. Paving-block. No. 987,060; Mar. 14; Sp. p. 2727; Gaz. vol. 164; p. 471.
Gall, Adolph F., assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Automatic film-protecting screen for kinetoscopes. No. 998,571; July 18; Sp. p. 4274; Gaz. vol. 168; p. 755.
Gallager, James P., Muskogee, Okla. Car-seal. No. 990,540; Apr. 25; Sp. p. 4898; Gaz. vol. 165; p. 854.
Gallagher, Daniel J., Akron, Ohio. Camera. No. 988,183; Mar. 28; Sp. p. 5158; Gaz. vol. 164; p. 915.
Gallagher, Emma G., *et al.* (See Gallagher, George S., assignor.)
Gallagher, Frank, Philadelphia, Pa. Checking device. No. 1,006,203; Oct. 17; Sp. p. 3610; Gaz. vol. 171; p. 636.
Gallagher, Frank, Ridgeway, Iowa. Tire for wheels. No. 1,006,376; Oct. 17; Sp. p. 3991; Gaz. vol. 171; p. 695.
Gallagher, George S., assignor to E. G. Gallagher, New York, N. Y. Reinforcing concrete. No. 997,493; July 11; Sp. p. 1850; Gaz. vol. 168; p. 334.
Gallagher, George S., assignor to H. and E. G. Gallagher, New York, N. Y. Steam-boiler furnace. No. 984,205; Feb. 14; Sp. p. 2081; Gaz. vol. 163; p. 353.
Gallagher, Harve H., Osceola, Tex. Wheel-holding device. No. 999,775; Aug. 8; Sp. p. 1148; Gaz. vol. 169; p. 227.
Gallagher, Henry, *et al.* (See Gallagher, George S., assignor.)
Gallagher, Joseph D., Glen Ridge, N. J., assignor to New Jersey Patent Holding Company. Apparatus for making plate-ice. No. 993,771; May 30; Sp. p. 6339; Gaz. vol. 166; p. 1143.
Gallagher, Joseph D., Glen Ridge, N. J., and H. Jones, Suffern, N. Y. Garment-hanger. No. 1,010,611; Dec. 5; Sp. p. 474; Gaz. vol. 173; p. 74.
Gallagher, Richard D., Jr., New York, N. Y. Spring. No. 990,857; May 2; Sp. p. 63; Gaz. vol. 166; p. 13.
Gallagher, Richard D., Jr., assignor to Standard Coupler Company, New York, N. Y. Buffing mechanism for passenger-cars. No. 994,740; June 13; Sp. p. 1407; Gaz. vol. 167; p. 261.
Gallagher, Richard W., San Francisco, assignor to Automatic Billing Company, Los Angeles, Cal. Bill-delivery mechanism for meters. No. 990,125; Apr. 18; Sp. p. 3906; Gaz. vol. 165; p. 675.
Gallagher, Stephen H., Carthage, N. Y. Tank-level signal. No. 1,012,624; Dec. 26; Sp. p. 4938; Gaz. vol. 173; p. 888.
Gallagher, William M., *et al.* (See Price, Jessee F., assignor.)
Gallagher, William T., assignor of one-half to W. Stirtz, Richmond, Va. Animal-trap. No. 998,166; July 18; Sp. p. 3392; Gaz. vol. 168; p. 612.
Galliaher, Wallace G., Sharon Springs, Kans. Fertilizer-distributer. No. 989,498; Apr. 11; Sp. p. 2540; Gaz. vol. 165; p. 430.
Galland-Henning Pneumatic Malting Drum Mfg. Co., The. (See Giesler, Franklin B., assignor.)
Gallatin, Daniel S., Dalton, Ohio. Bridle-bit. No. 1,004,769; Oct. 3; Sp. p. 482; Gaz. vol. 171; p. 79.
Gallaudet, Edson F., Norwich, Conn., assignor, by mesne assignments, to General Air Products Company, New York, N. Y. Liquefying gas and separating its elements. No. 981,755; Jan. 17; Sp. p. 3516; Gaz. vol. 162; p. 596.
Gallaudet, Edson F., Norwich, Conn., assignor, by mesne assignments, to General Air Products Company, New York, N. Y. Apparatus for liquefying gas and separating its elements. No. 982,225; Jan. 17; Sp. p. 4526; Gaz. vol. 162; p. 759.
Galletti, Roberto C., Rome, Italy. Apparatus for producing electric oscillations. No. 1,000,396; Aug. 15; Sp. p. 2519; Gaz. vol. 169; p. 471.
Galletti, Roberto C., Lyon, France. Production of continuous wave-trains by means of primary spark-circuits. No. 1,000,397; Aug. 15; Sp. p. 2521; Gaz. vol. 169; p. 471.
Gallihugh, Wayne, St. Paris, Ohio. Vegetable parer and slicer. No. 984,475; Feb. 14; Sp. p. 2624; Gaz. vol. 163; p. 443.
Gallo, Claudio. (See Ferrari and Gallo.)
Galloway, George. (See Whitehead and Galloway.)
Galloway, John L., Valley Junction, Iowa, and T. Galloway, Corliss, Wis. Exhaust-nozzle for locomotives. No. 1,004,770; Oct. 3; Sp. p. 483; Gaz. vol. 171; p. 79.

Alphabetical list of patentees—Continued.

Galloway, Lloyd W., Clinton, Iowa. Locomotive-tender. No. 989,595; Apr. 18; Sp. p. 2808; Gaz. vol. 165; p. 496.
Galloway, Thomas. (See Galloway, John L. and T.)
Gallrein, Paul, Markneukirchen, Germany. Suspending-tab for garments. No. 995,781; June 20; Sp. p. 3696; Gaz. vol. 167; p. 645.
Gallup, Jared A., Moosup, Conn. Steel trap. No. 992,185; May 16; Sp. p. 2872; Gaz. vol. 166; p. 535.
Gallup, Jared A., Moosup, Conn. Steel jaw-trap. No. 992,186; May 16; Sp. p. 2873; Gaz. vol. 166; p. 535.
Gallup, Thomas E., Santa Clara, Cal. Attachment for vehicle-thills. No. 986,704; Mar. 14; Sp. p. 2003; Gaz. vol. 164; p. 352.
Galvan, Jeremiah C., Denver, Colo. Device for stretching mattress-springs. No. 988,184; Mar. 28; Sp. p. 5161; Gaz. vol. 164; p. 915.
Galvao, Manuel A., Paris, France. Vapor-burner. No. 999,712; Aug. 1; Sp. p. 1014; Gaz. vol. 169; p. 176.
Galvin, Francis P., assignor of one-half to W. L. Fox, Buffalo, N. Y. Radiator. No. 989,243; Apr. 11; Sp. p. 2007; Gaz. vol. 165; p. 344.
Galvin, John F., New York, N. Y. Thill-coupling. No. 991,497; May 9; Sp. p. 1430; Gaz. vol. 166; p. 269.
Galvin, Thaddeus, assignor to Detroit Steering Wheel & Wind Shield Company, Detroit, Mich. Wind-shield. No. 996,326; June 27; Sp p. 4911; Gaz. vol. 167; p. 866.
Gambati, Olympio F., Houston, Tex. Combined filtering and heating device. No. 984,552; Feb. 21; Sp. p. 2833; Gaz. vol. 163; p. 505.
Gambati, Olympio F., Houston, Tex. Combined heater and filter. No. 984,757; Feb. 21; Sp. p. 3276; Gaz. vol. 163; p. 578.
Gambill, John F., and F. M. Woods, assignors of three-sixteenths to W. F. Schuermeyer, one-eighth to R. Toomer, Muskogee, one-eighth to T. O. Hays, Haskell, three-sixteenths to W. Y. Dilley, Muskogee, and one-eighth to F. E. Watkins, Waurika, Okla. Sash-balance. No. 982,048; Jan. 17; Sp. p. 4195; Gaz. vol. 162; p. 699.
Gambill, John F., and F. M. Woods, assignors of one-eighth to R. Toomer, three-sixteenths to W. F. Schuermeyer, three-sixteenths to W. Y. Dilley, Muskogee, one-eighth to T. O. Hayes, Haskell, one-eighth to F. E. Watkins, Waurika, and one-fourth to said John F. Gambill, Muskogee, Okla. Sash-balance. No. 998,572; July 18; Sp. p. 4278; Gaz. vol. 168; p. 756.
Gamble, Charles W., Montreal, Quebec, Canada. Soldering implement. No. 1,010,891; Dec. 5; Sp. p. 1095; Gaz. vol. 173; p. 171.
Gamble, John, Philadelphia, Pa. Base-ball glove. No. 1,005,824; Oct. 17; Sp. p. 2747; Gaz. vol. 171; p. 501.
Gamble, John, assignor to G. A. Reach, Philadelphia, Pa. Foot-ball. No. 985,893; Mar. 7; Sp. p. 293; Gaz. vol. 164; p. 47.
Gamble, John, Philadelphia, and E. K. Davis, Mont Clare, assignors to G. A. Reach, Philadelphia, Pa. Mask for base-ball players. No. 1,012,252; Dec. 19; Sp. p. 4176; Gaz. vol. 173; p. 716.
Gamble, Joseph W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Device for separating liquids or solids from gases. No. 982,488; Jan. 24; Sp. p. 5112; Gaz. vol. 162; p. 882.
Gamble, Joseph W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Water-heater. No. 991,970; May 9; Sp. p. 2422; Gaz. vol. 166; p. 431.
Gamble, Joseph W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Feed-water heater and separator. No. 996,578; June 27; Sp. p. 5439; Gaz. vol. 167; p. 951.
Gamble, Joseph W., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Steam system. No. 1,012,625; Dec. 26; Sp. p. 4941; Gaz. vol. 173; p. 889.
Gamble, Joseph W., assignor to J. C. L. Wharton, W. S. Hallowell, and J. C. Jones, Philadelphia, Pa. Collapsible tray for water-heaters. No. 985,337; Feb. 28; Sp. p. 4500; Gaz. vol. 163; p. 810.
Gamble, Joseph W., assignor to J. S. L. Wharton, W. S. Hallowell, and J. C. Jones, Philadelphia, Pa. Water-heater. No. 991,969; May 9; Sp. p. 2420; Gaz. vol. 166; p. 431.
Gamble, Joseph W., and A. B. Wallem, assignors to Harrison Safety Boiler Works, Philadelphia, Pa. Heater and separator. No. 996,577; June 27; Sp. p. 5436; Gaz. vol. 167; p. 951.
Gamble, Omar. (See Vinton, Joseph, assignor.)
Gamble, Walter H., Los Angeles, Cal. Attachment for match-boxes. No. 980,625; Jan. 3; Sp. p. 960; Gaz. vol. 162; p. 156.
Gamblin, John H., Riverside, Cal. Dust-arrester. No. 1,009,963; Nov. 28; Sp. p. 5122; Gaz. vol. 172; p. 923.
Gambon, John M., *et al.* (See Flynn, Jeremiah J., assignor.)
Gambrel, Walter C., Tabor, Ill. Spacer for fence line-wires. No. 985,993; Mar. 7; Sp. p. 520; Gaz. vol. 164; p. 82.
Gamer, Charles, Fort Worth, Tex. Pump-controlling switch. No. 1,004,010; Sept. 26; Sp. p. 4004; Gaz. vol. 170; p. 724.
Gamewell Fire Alarm Telegraph Company, The. (See Cole, Frederick W., assignor.)
Gamewell Fire-Alarm Telegraph Company, The. (See Suren, Nathan H., assignor.)
Gammel, Karl, assignor to The Cleveland Macaroni Company, Cleveland, Ohio. Drying edible pastes. No. 994,074; May 30; Sp. p. 6927; Gaz. vol. 166; p. 1244.
Gammeter, Harry C., assignor to The American Multigraph Company, Cleveland, Ohio. Paper-feed mechanism. No. 990,207; Apr. 18; Sp. p. 4090; Gaz. vol. 165; p. 703.
Gammeter, Harry C., assignor to The American Multigraph Company, Cleveland, Ohio. Ribbon-feeding mechanism. No. 997,285; July 11; Sp. p. 1448; Gaz. vol. 168; p. 267.
Gammeter, Harry C., assignor to The American Multigraph Company, Cleveland, Ohio. Ribbon-feeding mechanism. No. 997,286; July 11; Sp. p. 1453; Gaz. vol. 168; p. 267.
Gammeter, Harry C., assignor to The American Multigraph Company, Cleveland, Ohio. Paper-feeding device. No. 998,964; July 25; Sp. p. 5195; Gaz. vol. 168; p. 928.
Gammeter, Harry C., assignor to The American Multigraph Company, Cleveland, Ohio. Duplicating-machine. No. 1,004,408; Sept. 26; Sp. p. 4869; Gaz. vol. 170; p. 861.
Gammeter, Harry C., assignor to The American Multigraph Company, Cleveland, Ohio. Printing mechanism. No. 1,006,544; Oct. 24; Sp. p. 4397; Gaz. vol. 171; p. 786.
Gammeter, Harry C., Collinwood, assignor to The American Multigraph Company, Cleveland, Ohio. Ribbon-feeding mechanism. No. 997,287; July 11; Sp. p. 1458; Gaz. vol. 168; p. 267.
Gammeter, Harry C., Collinwood, assignor to The American Multigraph Company, Cleveland, Ohio. Ribbon-feeding mechanism. No. 997,615; July 11; Sp. p. 2110; Gaz. vol. 168; p. 376.
Gammeter, Harry C., Bratenahl, assignor to The American Multigraph Company, Cleveland, Ohio. Printing mechanism. No. 999,023; July 25; Sp. p. 5327; Gaz. vol. 168; p. 948.
Gammeter, Hermann J. (See Casagrande, John, assignor.)
Gammeter, John R., assignor to B. F. Goodrich Company, Akron, Ohio. Vulcanizing. No. 1,004,865; Oct. 3; Sp. p. 691; Gaz. vol. 171; p. 113.
Gammeter, William F., Cadiz, Ohio. Metallic stock-shell for fabrics. No. 1,003,593; Sept. 19; Sp. p. 3072; Gaz. vol. 170; p. 554.
Gammon, James S., Oklahoma, Okla. Resilient wheel. No. 1,007,087; Oct. 31; Sp. p. 5580; Gaz. vol. 171; p. 1026.
Gammon, James S., Lees Summit, Mo. Vehicle-wheel. No. 1,007,088; Oct. 31; Sp. p. 5582; Gaz. vol. 171; p. 1026.
Gammon, William W., Clarendon, Tex. Safety-clamp. No. 983,273; Feb. 7; Sp. p. 32; Gaz. vol. 163; p. 7.
Gammons, Welcome P., Jr., New York, N. Y. Wave-motor. No. 984,131; Feb. 14; Sp. p. 1904; Gaz. vol. 163; p. 327.
Gammons, Welcome P., Jr., New York, N. Y. Sewing-machine. No. 999,024; July 25; Sp. p. 5328; Gaz. vol. 168; p. 948.
Gamon, Ernest E., Newark, N. J. Water-meter. No. 992,954; May 23; Sp. p. 4567; Gaz. vol. 166; p. 833.
Gandil, Ernst V., Copenhagen, Denmark. Machine for making horseshoes. No. 998,287; July 18; Sp. p. 3687; Gaz. vol. 168; p. 657.
Gandolfo, Lorenzo, *et al.* (See Rist, Joseph, assignor.)
Gannoe, Thomas A., Warren, Pa. Bench-vise. No. 983,131; Jan. 31; Sp. p. 6475; Gaz. vol. 162; p. 1126.
Ganong, James B. (See Irick, William M., assignor.)
Gans, Gus. (See Gans, Louis and G.)
Gans, Louis and G., Los Angeles, Cal. Automobile accessory. No. 985,338; Feb. 28; Sp. p. 4501; Gaz. vol. 163; p. 810.
Gans, Moses, Cincinnati, Ohio. Ventilating system. No. 993,592; May 30; Sp. p. 5929; Gaz. vol. 166; p. 1080.
Gantvoort, Johannus M., Fishkill-on-the-Hudson, N. Y. Baker's oven. No. 982,665; Jan. 24; Sp. p. 5456; Gaz. vol. 162; p. 941.
Gantvoort, Johannus M., Fishkill-on-the-Hudson, N. Y. Baking-oven. No. 1,010,421; Dec. 5; Sp. p. 36; Gaz. vol. 173; p. 8.
Gantz, William M., Westerville, Ohio. Dental impression-tray. No. 980,411; Jan. 3; Sp. p. 478; Gaz. vol. 162; p. 83.
Ganzer, William F., Oshkosh, Wis. Tobacco-stripper. No. 998,492; July 18; Sp. p. 4109; Gaz. vol. 168; p. 728.
Ganzhorn, Philip, and W. C. Mueller, Chicago, Ill., assignors to Toledo Computing Scale Company, Toledo, Ohio. Attachment for weighing-scales. No. 1,011,609; Dec. 12; Sp. p. 2753; Gaz. vol. 173; p. 461.
Gapp, John, Scranton, Pa. Track-sanding device. No. 991,145; May 2; Sp. p. 674; Gaz. vol. 166; p. 115.
Garbo, Nils F., Minneapolis, Minn. Combination auditor's report. No. 985,994; Mar. 7; Sp. p. 521; Gaz. vol. 164; p. 82.
Garceau, Elie, assignor of one-half to C. A. Proulx, Woonsocket, R. I. Clutch-operating means. No. 985,795; Mar. 7; Sp. p. 58; Gaz. vol. 164; p. 13.
Garcia, Joseph F. (See Hall, Gideor F., assignor.)

Alphabetical list of patentees—Continued.

Garcia, Joseph F., H. Hertzberg, Brooklyn, and A. A. Low, Horseshoe, N. Y.; said Garcia and Hertzberg assignors to said Low. Starting-vaporizer for explosive-engines. No. 990,249; Apr. 25; Sp. p. 4211; Gaz. vol. 165; p. 751.
Garcia, Virgilio L., Buenos Aires, Argentina. Automatic valve-closure for water cocks or faucets. No. 997,124; July 4; Sp. p. 1107; Gaz. vol. 168; p. 180.
Gard, Samuel M., Mount Pulaski, Ill. Pump-operating device. No. 986,561; Mar. 14; Sp. p. 1716; Gaz. vol. 164; p. 303.
Gardiner, Alice N., Haverhill, Mass. Pivot-bridge score-sheet. No. 998,167; July 18; Sp. p. 3394; Gaz. vol. 168; p. 612.
Gardiner, Anwyl O., assignor of one-half to D. Knabbe, Oakland, Cal. Flying-machine. No. 1,008,131; Nov. 7; Sp. p. 1039; Gaz. vol. 172; p. 168.
Gardiner, George W., Chicago, Ill. Insulator for electric installation-canopies. No. 983,701; Feb. 7; Sp. p. 961; Gaz. vol. 163; p. 152.
Gardiner, William H., New York, N. Y. Lamp. No. 1,001,584; Aug. 22; Sp. p. 5075; Gaz. vol. 169; p. 914.
Gardner, Archibald R. (See Anderberg and Gardner.)
Gardner, Benjamin F., Chicago, Ill. Apparatus for assaying ore. No. 1,009,660; Nov. 21; Sp. p. 4490; Gaz. vol. 172; p. 773.
Gardner, Charles, Clinton, Ind. Drill-mount. No. 1,004,160; Sept. 26; Sp. p. 4396; Gaz. vol. 170; p. 778.
Gardner, Charles E., Gloucester, England. Machine for reducing rubber or similar material to an impalpable powder. No. 984,758; Feb. 21; Sp. p. 3278; Gaz. vol. 163; p. 578.
Gardner, Charles L., Peoria, assignor to Gardner Grain Weigher Co., Ottawa, Ill. Grain-bagger. No. 1,011,047; Dec. 5; Sp. p. 1410; Gaz. vol. 173; p. 224.
Gardner, Charles L., Peoria, assignor to Gardner Grain Weigher Co., Ottawa, Ill. Grain-bagger. No. 1,011,048; Dec. 5; Sp. p. 1413; Gaz. vol. 173; p. 225.
Gardner, Clarence J. (See Caris and Gardner.)
Gardner, Delamere B., Chicago, Ill. Starter for explosion-engines in self-propelled vehicles. No. 982,946; Jan. 31; Sp. p. 6092; Gaz. vol. 162; p. 1064.
Gardner, Edgar S., Acquackanonck, N. J., assignor to General Electric Company. Filament-mounting. No. 1,001,382; Aug. 22; Sp. p. 4702; Gaz. vol. 169; p. 848.
Gardner, Edgar S., Acquackanonck, N. J., assignor to General Electric Company. Filament-mounting. No. 1,001,630; Aug. 29; Sp. p. 5181; Gaz. vol. 169; p. 960.
Gardner, Eli J., and D. Odem, Sinton, Tex. Grub-plow. No. 1,000,507; Aug. 15; Sp. p. 2759; Gaz. vol. 169; p. 511.
Gardner, Ernest L., Portsmouth, N. H. Take-down square. No. 994,148; June 6; Sp. p. 90; Gaz. vol. 167; p. 17.
Gardner, Frank J., Chicago, Ill. Preserving meats. No. 1,011,182; Dec. 12; Sp. p. 1761; Gaz. vol. 173; p. 307.
Gardner, Frederic E. (See Gardner, Frederick N. and F. E.)
Gardner, Frederick, Oak Park, assignor to T. Gardner, Oak Park, Ill. Package and toy. No. 990,725; Apr. 25; Sp. p. 5303; Gaz. vol. 165; p. 915.
Gardner, Frederick N. and F. E., assignors of one-third to L. W. Thompson, Beloit, Wis. Attachment for disk-grinding machines. No. 990,250; Apr. 25; Sp. p. 4213; Gaz. vol. 165; p. 751.
Gardner, Frederick N. and F. E., assignors of one-third to L. W. Thompson, Beloit, Wis. Attachment for disk grinding-machines. No. 1,001,133; Aug. 22; Sp. p. 4186; Gaz. vol. 169; p. 765.
Gardner, Frederick N. and F. E., assignors of one-third to L. W. Thompson, Beloit, Wis. Attachment for disk grinders. No. 1,001,631; Aug. 29; Sp. p. 5184; Gaz. vol. 169; p. 961.
Gardner, Frederick N. and F. E., assignors of one-third to L. W. Thompson, Beloit, Wis. Abrading device for grinding-machines. No. 1,010,040; Nov. 28; Sp. p. 5300; Gaz. vol. 172; p. 950.
Gardner Grain Weigher Co. (See Gardner, Charles L., assignor.)
Gardner, Harry H., Rockwood, Pa. Feed-bag. No. 1,008,899; Nov. 14; Sp. p. 2836; Gaz. vol. 172; p. 477.
Gardner, Harvey W., Springfield, Mo. Starting-burner. No. 1,005,640; Oct. 10; Sp. p. 2359; Gaz. vol. 171; p. 405.
Gardner and Highet Company *et al.* (See Gardner, Percy, assignor.)
Gardner, Howard S., Newark, N. J. Safety-lock for faucets. No. 999,983; Aug. 8; Sp. p. 1582; Gaz. vol. 169; p. 298.
Gardner, James E., assignor of one-half to J. H. Miller, Luke, Md. Railway-tie. No. 991,712; May 9; Sp. p. 1923; Gaz. vol. 166; p. 346.
Gardner, John, Knott End, near Fleetwood, England. Submarine sound-signaling. No. 1,006,079; Oct. 17; Sp. p. 3301; Gaz. vol. 171; p. 590.
Gardner, Joseph K., Wyandotte, Mich. Vehicle suspension. No. 980,508; Jan. 3; Sp. p. 727; Gaz. vol. 162; p. 117.
Gardner, Kirtland C., and F. C. Biggert, Jr., assignors to United Engineering & Foundry Company, Pittsburg, Pa. Holding-down device for shears, punches, presses, &c. No. 980,241; Jan. 3; Sp. p. 120; Gaz. vol. 162; p. 24.
Gardner, Marshall B., Aurora, Ill., assignor to International Corset Company. Corset-clasp. No. 984,899; Feb. 21; Sp. p. 3545; Gaz. vol. 163; p. 626.
Gardner, Marshall B., Aurora, Ill., assignor to International Corset Company. Corset-clasp. No. 1,003,100; Sept. 12; Sp. p. 2029; Gaz. vol. 170; p. 349.
Gardner, Marshall B., Aurora, Ill. Binding attachment for sewing-machines. No. 1,007,936; Nov. 7; Sp. p. 652; Gaz. vol. 172; p. 101.
Gardner, Percy, New York, N. Y., assignor to Hope Webbing Company, Pawtucket, R. I., and Gardner and Highet Company, New York, N. Y. Holding device for reeled merchandise. No. 1,000,676; Aug. 15; Sp. p. 3157; Gaz. vol. 169; p. 572.
Gardner, Percy, New York, N. Y., assignor to Hope Webbing Company, Pawtucket, R. I., and Gardner and Highet Company, New York, N. Y. Holding device for reeled merchandise. No. 1,001,838; Aug. 29; Sp. p. 5642; Gaz. vol. 169; p. 1033.
Gardner, Richard H., assignor of one-half to H. Fogarty, Fort Madison, Iowa. Corn-planter. No. 992,712; May 16; Sp. p. 4020; Gaz. vol. 166; p. 718.
Gardner, Rio. (See Burton and Gardner.)
Gardner, Robert F., Vallejo, Cal. Aeroplane. No. 1,000,252; Aug. 8; Sp. p. 2193; Gaz. vol. 169; p. 390.
Gardner, Starrett B. (See Bowers and Gardner.)
Gardner, Theresa. (See Gardner, Frederick, assignor.)
Gardner, Thomas W., assignor of one half to C. L. Meyers, Nashville, Tenn. Time-signal for telephone-messages. No. 997,250; July 4; Sp. p. 1367; Gaz. vol. 168; p. 224.
Gardner, William E., Pittsburg, Pa. Resistance compound. No. 991,841; May 9; Sp. p. 2171; Gaz. vol. 166; p. 387.
Gardner, William R., assignor of one-half to J. Craite, Los Angeles, Cal. Refrigerating device. No. 1,006,475; Oct. 24; Sp. p. 4223; Gaz. vol. 171; p. 760.
Gare, Thomas, New Brighton, England. Manufacture of sheet india-rubber and the coating or facing of fabrics and the like with india-rubber. No. 986,162; Mar. 7; Sp. p. 846; Gaz. vol. 164; p. 136.
Gare, Thomas, New Brighton, England. Apparatus for the manufacture of rubber articles from old or waste rubber. No. 1,002,667; Sept. 5; Sp. p. 1070; Gaz. vol. 170; p. 161.
Garey, Charles J. (See Murdick and Garey.)
Garey, John P., and J. S. Lowman, Elmira Heights, N. Y. Yarn-cleaner. No. 983,040; Jan. 31; Sp. p. 6303; Gaz. vol. 162; p. 1096.
Gargiulo, Salvatore. (See Mayo and Gargiulo.)
Garinger, Albert, Stamford, Conn. Mathematical instrument. No. 1,007,937; Nov. 7; Sp. p. 656; Gaz. vol. 172; p. 102.
Garinger, Albert, Stamford, Conn. Mathematical instrument. No. 1,010,612; Dec. 5; Sp. p. 475; Gaz. vol. 173; p. 74.
Garland, Albert E., Boston, Mass. Sanitary drinking apparatus. No. 1,001,839; Aug. 29; Sp. p. 5643; Gaz. vol. 169; p. 1033.
Garland, Claude M., Urbana, Ill. Internal-combustion engine. No. 995,530; June 20; Sp. p. 3127; Gaz. vol. 167; p. 556.
Garland, Ralph C. (See Muldoon, John, assignor.)
Garland, Thomas H., Chicago, Ill. Car-ventilating apparatus. No. 989,840; Apr. 18; Sp. p. 3330; Gaz. vol. 165; p. 581.
Garland, Thomas H., Chicago, Ill. Fire-box. No. 997,988; July 18; Sp. p. 2997; Gaz. vol. 168; p. 548.
Garland, Thomas H., Chicago, Ill. Ventilator for buildings and chimney-tops. No. 1,006,930; Oct. 24; Sp. p. 5236; Gaz. vol. 171; p. 921.
Garland, William H. (See Apt, Schott, and Garland.)
Garlock Auto Specialty Company. (See Whiting, Herman E., assignor.)
Garman, Harry B., Ottawa, Ill. Disk for turbine cream-separators. No. 984,807; Feb. 21; Sp. p. 3378; Gaz. vol. 163; p. 595.
Garmon, John O., Tropico, Cal. Scale. No. 988,185; Mar. 28; Sp. p. 5162; Gaz. vol. 164; p. 915.
Garner, Vernon. (See Dexter and Garner.)
Garner, William, Pendleton, England. Tool for boring elliptical and circular holes. No. 1,004,409; Sept 26; Sp. p. 4879; Gaz. vol. 170; p. 861.
Garner, William W., and O. T. Rush, Mineral, Tex. Insect-destroyer. No. 1,007,858; Nov. 7; Sp. p. 494; Gaz. vol. 172; p. 74.
Garnet, George H., Allentown, Pa. Dispensing vessel. No. 995,340; June 13; Sp. p. 2690; Gaz. vol. 167; p. 461.
Garpheide, Fritz, and W. Westerheide, Solingen, Germany. Foldable stretcher. No. 993,828; May 30; Sp. p. 6457; Gaz. vol. 166; p. 1162.
Garra, D. A., *et al.* (See Silva, Claude L., assignor.)
Garratt, Ernest A., London, England. Metal piling. No. 1,004,011; Sept. 26; Sp. p. 4005; Gaz. vol. 170; p. 724.
Garratt, Ernest A., London, England. Metal piling. No. 1,007,089; Oct. 31; Sp. p. 5584; Gaz. vol. 171; p. 1027.

Alphabetical list of patentees—Continued.

Garratt, James T., Camberwell, London, England. Valve and cock. No. 995,247; June 13; Sp. p. 2481; Gaz. vol. 167; p. 429.
Garraway, Lee O., Memphis, Tenn. Folding step-ladder. No. 988,086; Mar. 28; Sp. p. 4986; Gaz. vol. 164; p. 884.
Garred, Ulysses A., Anaconda, Mont. Anode-mold. No. 988,564; Apr. 4; Sp. p. 582; Gaz. vol. 165; p. 94.
Garretson, Charles F., Knoxville, Iowa. Dental apparatus. No. 996,075; June 27; Sp. p. 4310; Gaz. vol. 167; p. 782.
Garretson, Cornelius D., assignor to Electric Hose and Rubber Company, Wilmington, Del. Marking rubber hose. No. 995,782; June 20; Sp. p. 3696; Gaz. vol. 167; p. 645.
Garretson, Cornelius D., assignor to Electric Hose and Rubber Company, Wilmington, Del. Apparatus for marking rubber hose. No. 995,783; June 20; Sp. p. 3701; Gaz. vol. 167; p. 645.
Garretson, George, San Diego, Cal. Binding-post. No. 1,005,192; Oct. 10; Sp. p. 1325; Gaz. vol. 171; p. 246.
Garretson, Eugene, assignor of five one-hundredths to C. H. Bierbaum, ten one-hundredths to A. L. Fox, thirty-five one-hundredths to G. H. Calkins, Buffalo, twelve and one-half one-hundredths to G. R. Fuller, twelve and one-half one-hundredths to J. W. Morrison, Jr., Rochester, N. Y., and twenty one-hundredths to H. F. Hayes. Telephone current-selector. No. 985,024; Feb. 21; Sp. p. 3785; Gaz. vol. 163; p. 668.
Garretson, Serena L. (See Luckenbach, Royer, assignor.)
Garrett-Cromwell Engineering Company, The, *et al.* (See Cromwell, John C., assignor.)
Garrett, Ephraim S. (See Dwyer, Garrett, and O'Donnell.)
Garrett, Frank S., Wilmington, Del., assignor to Garrett, Miller & Co. Tire-holder. No. 1,000,508; Aug. 15; Sp. p. 2761; Gaz. vol. 169; p. 511.
Garrett, Frank S., Wilmington, Del., assignor to Garrett, Miller & Co. Tire-holder. No. 1,001,632; Aug. 29; Sp. p. 5186; Gaz. vol. 169; p. 961.
Garrett, Frederick G., Southall, England. Non-skid device for motor road-vehicles. No. 1,001,194; Aug. 22; Sp. p. 4296; Gaz. vol. 169; p. 784.
Garrett, John W., *et al.* (See Bair, George R., assignor.)
Garrett, Lebbeus G., Washington, Pa. Violin-bow guide. No. 987,061; Mar. 14; Sp. p. 2728; Gaz. vol. 164; p. 471.
Garrett, Lebbeus G., Washington, Pa. Finger-guide for stringed instruments. No. 992,765; May 23; Sp. p. 4136; Gaz. vol. 166; p. 766.
Garrett, Miller & Co. (See Garrett, Frank S., assignor.)
Garrison, M. E., *et al.* (See Sale, John H., assignor.)
Garritson, Henry R., Logansport, Ind. Basket. No. 996,014; June 20; Sp. p. 4168; Gaz. vol. 167; p. 725.
Garside, Melvin, Paterson, N. J. Horse-boot. No. 1,010,745; Dec. 5; Sp. p. 777; Gaz. vol. 173; p. 121.
Garst, Dudley, Detroit, Mich. Manure-spreader. No. 992,124; May 9; Sp. p. 2721; Gaz. vol. 166; p. 482.
Garst, Dudley, Detroit, Mich. Fence-post. No. 1,002,256; Sept. 5; Sp. p. 156; Gaz. vol. 170; p. 20.
Garth, I. H., *et al.* (See Crocker, James, assignor.)
Gartley, Alonzo, Honolulu, Hawaii. Vacuum-pan. No. 1,005,533; Oct. 10; Sp. p. 2089; Gaz. vol. 171; p. 368.
Garton, William R., Chicago, Ill. Impedance device. No. 982,266; Jan. 24; Sp. p. 4624; Gaz. vol. 162; p. 802.
Gartside, William N. (See Newman and Gartside.)
Gartze, Walter, Solingen-Mangenberg, Germany. Ratchet-wrench. No. 980,626; Jan. 3; Sp. p. 961; Gaz. vol. 162; p. 156.
Garvens, William A., and C. J. Gecks, St. Louis, Mo. Elevator-rail greaser. No. 984,206; Feb. 14; Sp. p. 2086; Gaz. vol. 163; p. 353.
Garver, Frank, assignor to The Huber Manufacturing Company, Marion, Ohio. Steering mechanism for power-driven vehicles. No. 1,003,894; Sept. 19; Sp. p. 3690; Gaz. vol. 170; p. 657.
Garvey, Christopher A., St. Louis, Mo. Shock-absorber for vehicles. No. 991,437; May 2; Sp. p. 1298; Gaz. vol. 166; p. 216.
Garvey, Christopher A., St. Louis, Mo. Making stencil-machine character-punches. No. 991,498; May 9; Sp. p. 1431; Gaz. vol. 166; p. 269.
Garvin Machine Company, The. (See McClellan, Edward J., assignor.)
Garvy, Company, The. (See Hauser, Theodore, assignor.)
Garwood, Oscar A., Laporte, Ind. Land-pulverizer. No. 980,242; Jan. 3; Sp. p. 122; Gaz. vol. 162; p. 24.
Gary, John. (See Smith and Gary.)
Gas-Laternenfernzuendung System Dr. Rostin G. M. B. H. (See Thielbeule, Otto, assignor.)
Gas Power Company. (See Tait, Godfrey M. S., assignor.)
Gas Traction Company. (See Wyman, Alton L., assignor.)
Gasche, Ferdinand G., Chicago, Ill. Musical instrument. No. 980,938; Jan. 10; Sp. p. 1682; Gaz. vol. 162; p. 291.
Gaskill, Harry L., York, Nebr. Playing-cards. No. 1,011,610; Dec. 12; Sp. p. 2759; Gaz. vol. 173; p. 462.
Gaskill, Raymond G., Port Deposit, Md. Internal-combustion engine. No. 1,004,564; Oct. 3; Sp. p. 34; Gaz. vol. 171; p. 7.
Gasthoff, John F., Danville, Ill. Decorative sheet. No. 1,003,895; Sept. 19; Sp. p. 3692; Gaz. vol. 170; p. 657.
Gatchell, Charles H., Boston, Mass. Sound-conducting attachment for telephone-receivers. No. 1,002,832; Sept. 12; Sp. p. 1438; Gaz. vol. 170; p. 256.
Gatchell, William H. (See West, Augustus A., assignor.)
Gatchell, William H. (See West and Gatchell.)
Gately, John P., assignor to J. A. Kelly, Chicago, Ill. Store-service apparatus. No. 986,705; Mar. 14; Sp. p. 2005; Gaz. vol. 164; p. 353.
Gates, Charles M., Gary, W. Va. Anti-rail-spreading device. No. 1,002,668; Sept. 5; Sp. p. 1072; Gaz. vol. 170; p. 161.
Gates, Claude E. (See Mixon, James F., assignor.)
Gates, Curtis F., New London, Conn. Toy money-box. No. 993,979; May 30; Sp. p. 6732; Gaz. vol. 166; p. 1211.
Gates, De Forest L., Salamanca, N. Y. Automobile-tire. No. 1,007,778; Nov. 7; Sp. p. 285; Gaz. vol. 172; p. 45.
Gates, George. (See Stark and Gates.)
Gates, George B., Boston, Mass. Valve mechanism for steam-pumps. No. 997,616; July 11; Sp. p. 2113; Gaz. vol. 168; p. 376.
Gates, Jacob S., Chicago, Ill. Match-box. No. 1,004,565; Oct. 3; Sp. p. 37; Gaz. vol. 171; p. 8.
Gates, James A. (See Koch and Gates.)
Gates, John C., Indianapolis, Ind. Power apparatus. No. 1,006,646; Oct. 24; Sp. p. 4609; Gaz. vol. 171; p. 822.
Gates, Louis W., West Haven, assignor to C. Cowles & Co., New Haven, Conn. Combined handle and lock for vehicle-doors. No. 990,541; Apr. 25; Sp. p. 4899; Gaz. vol. 165; p. 854.
Gates, Philetus W., conservator. (See Hanna, Elmer E.)
Gates, Walter S. (See Dow, Gates, and Schaefer.)
Gates, William G., assignor of one-half to A. L. Honeker, Wallace, Idaho. Animal-trap. No. 993,238; May 23; Sp. p. 5153; Gaz. vol. 166; p. 927.
Gates, William H., assignor to Eastern Machine Screw Company, New Haven, Conn. Safety-razor. No. 1,005,193; Oct. 10; Sp. p. 1326; Gaz. vol. 171; p. 246.
Gatewood, Joseph, *et al.* (See Pierce, Franklin A., assignor.)
Gathmann, Emil, New York, N. Y. Casting ingots. No. 983,357; Feb. 7; Sp. p. 213; Gaz. vol. 163; p. 37.
Gathmann, Emil, New York, N. Y. Projectile. No. 992,650; May 16; Sp. p. 3904; Gaz. vol. 166; p. 696.
Gatlin, Edward C., Kansas City, Mo. Paint-oil compound. No. 1,011,611; Dec. 12; Sp. p. 2761; Gaz. vol. 173; p. 462.
Gattis, James D. (See Cawyer and Gattis.)
Gatto, Peter F., Wilmerding, Pa. Cuspidor. No. 995,859; June 20; Sp. p. 3872; Gaz. vol. 167; p. 672.
Gauch, Orlando S., Shelby, Ohio. Paper folding and delivery mechanism. No. 1,003,446; Sept. 19; Sp. p. 2743; Gaz. vol. 170; p. 503.
Gauch, Orlando S., assignor to The Shelby Printing Company, Shelby, Ohio. Manifold sales or order book. No. 1,003,445; Sept. 19; Sp. p. 2740; Gaz. vol. 170; p. 502.
Gauer, Charles J., Morristown, and J. Gauer, Dover, N. J. Stretching apparatus. No. 987,456; Mar. 21; Sp. p. 3593; Gaz. vol. 164; p. 639.
Gauer, John. (See Gauer, Charles J. and J.)
Gaul, Andrew, Jr. (See Hyde and Gaul.)
Gaul, Andrew, Jr., Ridgefield, N. J., assignor to Fresh Air Feed Bag Company. Feed-bag. No. 995,957; June 20; Sp. p. 4059; Gaz. vol. 167; p. 706.
Gaulden, William T. (See Harrington, Bryant P., assignor.)
Gaulke, William H. (See Kalweit and Gaulke.)
Gaulke, William H., Milwaukee, Wis., assignor to Independent Electric Manufacturing Company. Starter and regulator for compound motors. No. 1,008,811; Nov. 14; Sp. p. 2664; Gaz. vol. 172; p. 447.
Gaulke, William H., Milwaukee, Wis., assignor to Independent Electric Manufacturing Company. Alternating-current-motor starter. No. 1,009,661; Nov. 21; Sp. p. 4492; Gaz. vol. 172; p. 774.
Gault, Harry R., *et al.*, trustees. (See Lewis, James S., assignor.)
Gaulton, Leslie, Newark, N. J. Scaffold-jack. No. 996,982; July 4; Sp. p. 821; Gaz. vol. 168; p. 132.
Gaunt, Sidney C., assignor to Barnhart Brothers and Spindler, Chicago, Ill. Type. No. 984,207; Feb. 14; Sp. p. 2088; Gaz. vol. 163; p. 353.
Gauntt, Forest G., Fort Wayne, Ind. Driving mechanism for vehicles. No. 1,003,135; Sept. 12; Sp. p. 2094; Gaz. vol. 170; p. 360.
Gaussiran, Jules B., Baldwin, La. Grapple. No. 1,003,352; Sept. 12; Sp. p. 2555; Gaz. vol. 170; p. 440.
Gauthier, Arthur, Portneuf Station, Quebec, Canada. Paper-winder. No. 1,004,640; Oct. 3; Sp. p. 194; Gaz. vol. 171; p. 34.
Gauthier, Jules P., Villeurbanne, France. Apparatus for the manufacture of packing-rings. No. 988,087; Mar. 28; Sp. p. 4988; Gaz. vol. 164; p. 885.
Gautier, Thomas B., Hickox, Ga., assignor to National Turpentine Company. Distilling apparatus. No. 980,509; Jan. 3; Sp. p. 728; Gaz. vol. 162; p. 117.
Gauvin, Avila, Montreal, Quebec, Canada. Automatic weighing-scale. No. 999,365; Aug. 1; Sp. p. 343; Gaz. vol. 169; p. 60.
Gauvin, Philias J. (See Connolly, James J., Jr., assignor.)

Alphabetical list of patentees—Continued.

Gavelack, Joseph, Monongahela, Pa. Washboard attachment. No. 992,187; May 16; Sp. p. 2874; Gaz. vol. 166; p. 535.
Gavin, Edward C., assignor of one-half to A. O. Bourn, Bristol, R. I. Manufacture of rubber shoes. No. 983,819; Feb. 7; Sp. p. 1187; Gaz. vol. 163; p. 191.
Gavin, James W., New Britain, Conn. Door-securer. No. 996,847; July 4; Sp. p. 508; Gaz. vol. 168; p. 84.
Gavin, John H. (See Clifford and Gavin.)
Gawell, Mathias, Portage, Pa. Lamp. No. 1,005,019; Oct. 3; Sp. p. 987; Gaz. vol. 171; p. 165.
Gawenda, Anton, and L. Markó, Berwick, Pa. Life-saving device. No. 987,354; Mar. 21; Sp. p. 3370; Gaz. vol. 164; p. 605.
Gawenda, Anton, and L. Marko, Berwick, Pa. Noodle-cutting device. No. 992,188; May 16; Sp. p. 2875; Gaz. vol. 166; p. 535.
Gay, Albert. (See Vail, Henry B., assignor.)
Gay, Cassius M., Los Angeles, Cal. Temperature-changing device for cars. No. 984,553; Feb. 21; Sp. p. 2834; Gaz. vol. 163; p. 505.
Gay, Edward O., assignor of one-third to W. Jones and one-third to M. McKinnon, Red Springs, N. C. Plow. No. 992,556; May 16; Sp. p. 3722; Gaz. vol. 166; p. 666.
Gay, Ernest L., *et al.* (See Booth, James A., assignor.)
Gay, George R., and J. C. Streibich, Little Rock, Ark. Resilient wheel. No. 997,549; July 11; Sp. p. 1968; Gaz. vol. 168; p. 352.
Gayley, James, New York, N. Y. Apparatus for drying air by refrigeration. No. 1,002,576; Sept. 5; Sp. p. 885; Gaz. vol. 170; p. 130.
Gayley, James, New York, N. Y. Drying air. No. 1,002,577; Sept. 5; Sp. p. 886; Gaz. vol. 170; p. 131.
Gayley, James, New York, N. Y. Drying air. No. 1,002,578; Sept. 5; Sp. p. 889; Gaz. vol. 170; p. 131.
Gaylor, Leonard B., Stamford, Conn. Device for locating the defectively-operating parts in automobile-motors and other mechanism. No. 999,496; Aug. 1; Sp. p. 596; Gaz. vol. 169; p. 103.
Gaylor, Leonard B., Stamford, Conn. Tire-grip. No. 1,001,633; Aug. 29; Sp. p. 5187; Gaz. vol. 169; p. 962.
Gaylord, Amos F. (See Whitley and Gaylord.)
Gaylord, Edward K. (See Kennedy and Gaylord.)
Gaylord, Robert L., Clyo, Ga. Sectional honey-tray. No. 1,010,892; Dec. 5; Sp. p. 1096; Gaz. vol. 173; p. 172.
Gayner, Thomas H. B., South Melbourne, Victoria, Australia. Fabric for inflatable articles. No. 982,049; Jan. 17; Sp. p. 4196; Gaz. vol. 162; p. 699.
Gaynor, Arthur C. (See O'Hara and Gaynor.)
Gaynor, Arthur C., Bridgeport, Conn. Ceiling and floor plate. No. 989,140; Apr. 11; Sp. p. 1779; Gaz. vol. 165; p. 309.
Gaynor, John J., Indianapolis, Ind. Labeling-machine. No. 1,006,204; Oct. 17; Sp. p. 3611; Gaz. vol. 171; p. 636.
Gaynor, Joseph, New York, N. Y. Tooth-brush. No. 1,007,090; Oct. 31; Sp. p. 5588; Gaz. vol. 171; p. 1027.
Gaynor, Joseph, New York, N. Y. Pick for mandolins, zithers, and similar stringed musical instruments. No. 1,009,403; Nov. 21; Sp. p. 3992; Gaz. vol. 172; p. 689.
Gaynor, Thomas F., New York, N. Y. Watch-clock. No. 993,050; May 23; Sp. p. 4770; Gaz. vol. 166; p. 867.
Gazzolo, John D., *et al.* (See Ivor, Barry, assignor.)
Ge Bott, Jay D., Onalaska, Tex. Grinding attachment for band-saw mills. No. 1,006,377; Oct. 17; Sp. p. 3992; Gaz. vol. 171; p. 695.
Gear, Cornelia V., San Francisco, Cal. Bottle attachment. No. 984,554; Feb. 21; Sp. p. 2839; Gaz. vol. 163; p. 506.
Gearhart, Frank D., Olive township, St. Joseph county, Ind. Fat-cutting machine. No. 1,004,641; Oct. 3; Sp. p. 196; Gaz. vol. 171; p. 34.
Gearhart, John W., Fresno, Cal. Blank book. No. 987,619; Mar. 21; Sp. p. 3894; Gaz. vol. 164; p. 694.
Gearhart, Joseph E., Clearfield, Pa. Vacuum-cleaner. No. 998,891; July 25; Sp. p. 5023; Gaz. vol. 168; p. 902.
Geary, John, assignor of one-half to W. J. Wetherbee, Leominster, Mass. Tool for cutting and threading pipe. No. 1,003,961; Sept. 19; Sp. p. 3883; Gaz. vol. 170; p. 681.
Gebhard, John W., Joliet, Ill. Hardening the face of steel castings. No. 997,801; July 11; Sp. p. 2582; Gaz. vol. 168; p. 443.
Gebhardt, Henry J., Chicago, Ill. Locomotive-boiler firebox. No. 984,555; Feb. 21; Sp. p. 2840; Gaz. vol. 163; p. 506.
Gebhart, William, Piedmont, Mont. Railway cattle-guard. No. 1,009,404; Nov. 21; Sp. p. 3992; Gaz. vol. 172; p. 690.
Gecks, Charles J. (See Garvens and Gecks.)
Geddes, Albert H., Empire, Canal Zone. Dipper-trip for steam-shovels. No. 1,000,253; Aug. 8; Sp. p. 2194; Gaz. vol. 169; p. 390.
Gee, Charles E., Lowell, Mass. Piston. No. 994,454; June 6; Sp. p. 721; Gaz. vol. 167; p. 123.
Gee, Robert W., Montpelier, Idaho. Gate-latch. No. 988,455; Apr. 4; Sp. p. 352; Gaz. vol. 165; p. 57.
Gee, Thomas J., Buenos Aires, Argentina, assignor to Agar Cross & Company Limited, London, England. Compound steam-engine. No. 996,076; June 27; Sp. p. 4311; Gaz. vol. 167; p. 782.
Gee, William J., assignor to Hydraulic Separating & Grading Company Limited, London, England. Centrifugal apparatus. No. 1,002,257; Sept. 5; Sp. p. 158; Gaz. vol. 170; p. 20.
Geer, John, and A. C. Coty, Hudson Falls, assignors of one-half to M. H. O'Brien, Plattsburg, N. Y. Collapsible stove-shelf and grease-guard. No. 1,001,383; Aug. 22; Sp. p. 4705; Gaz. vol. 169; p. 848.
Geerdts, Albert. (See Franks and Geerdts.)
Geering, Adolph, New York, N. Y. Fender for vessels. No. 991,055; May 2; Sp. p. 466; Gaz. vol. 166; p. 81.
Geesey, Harry I. (See Cross, Frederick L., assignor.)
Gehlert, Richard S., and J. G. Coleridge, Detroit, Mich. Transmission-gearing. No. 999,984; Aug. 8; Sp. p. 1583; Gaz. vol. 169; p. 298.
Gehm, John C. A., Zumbrota, Minn. Quilting-frame. No. 981,547; Jan. 10; Sp. p. 3095; Gaz. vol. 162; p. 505.
Gehrckens, Carl O., Hamburg, Germany. Driving-belt. No. 992,494; May 16; Sp. p. 3581; Gaz. vol. 166; p. 642.
Gehre, Max, Rath, near Dusseldorf, Germany. Pressure-gage. No. 994,669; June 6; Sp. p. 1202; Gaz. vol. 167; p. 195.
Gehricke, Friedrich, assignor of one-half to F. Bollmann, Berlin, Germany. Derailment-guard. No. 995,128; June 13; Sp. p. 2246; Gaz. vol. 167; p. 391.
Gehring, Gustav, Hildburghausen, Germany. Time, date, or amount stamp. No. 1,011,049; Dec. 5; Sp. p. 1415; Gaz. vol. 173; p. 225.
Gehrke, Frank S. E., Manawa, Wis. Clothes-reel. No. 984,556; Feb. 21; Sp. p. 2842; Gaz. vol. 163; p. 506.
Gehrkens, Edward F., Pittsfield, Mass., assignor to General Electric Company. Induction-furnace. No. 1,011,769; Dec. 12; Sp. p. 3073; Gaz. vol. 173; p. 514.
Geiger, Charles E., assignor of one-third to W. E. Koop and one-third to G. W. Fiske, Louisville, Ky. Drier. No. 990,433; Apr. 25; Sp. p. 4648; Gaz. vol. 165; p. 817.
Geiger, Eugen, Karlsruhe, Germany. Wheel. No. 990,251; Apr. 25; Sp. p. 4215; Gaz. vol. 165; p. 751.
Geiger, Gustav, Munich, Germany. Envelop. No. 985,339; Feb. 28; Sp. p. 4502; Gaz. vol. 163; p. 811.
Geil, Fred M., Polk, Iowa. Ice-cutting machine. No. 1,007,279; Oct. 31; Sp. p. 6009; Gaz. vol. 171; p. 1096.
Geisenhöner, Henry, and F. L. Stone, Schenectady, N. Y., assignors to General Electric Company. Electrical conductor. No. 996,579; June 27; Sp. p. 5441; Gaz. vol. 167; p. 952.
Geiser Manufacturing Company, The. (See Anderson, Gustaf A., assignor.)
Geiser Manufacturing Company, The. (See Clymans and Hess, assignors.)
Geiser Manufacturing Company. (See Flautt, Melvin A., assignor.)
Geisler, Charles R., *et al.* (See Schadel, William E., assignor.)
Geisler, Jacob, *et al.* (See Schadel, William E., assignor.)
Geissinger, Harry G., assignor to Geissinger Regulator Company, New York, N. Y. Valve-controller mechanism. No. 989,543; Apr. 11; Sp. p. 2665; Gaz. vol. 165; p. 448.
Geissinger Regulator Company. (See Geissinger, Harry G., assignor.)
Geist, John, Nashville, Tenn. Overdraft-blast for forges. No. 999,985; Aug. 8; Sp. p. 1585; Gaz. vol. 169; p. 299.
Geistdörfer, Jean, Paris, France. Apparatus for extracting albumins from plants. No. 1,003,594; Sept. 19; Sp. p. 3075; Gaz. vol. 170; p. 554.
Gekeler, Alvin G., Lima, Ohio. Dust-collector. No. 990,542; Apr. 25; Sp. p. 4901; Gaz. vol. 165; p. 854.
Gelbke, Eduard, assignor of one-half to A. Scheffling, Jersey City, N. J. Window. No. 984,271; Feb. 14; Sp. p. 2230; Gaz. vol. 163; p. 376.
Geldermann, Hugo, Gross-Lichterfelde-Ost, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Yellow pyrazolone dye for wool. No. 982,050; Jan. 17; Sp. p. 4197; Gaz. vol. 162; p. 700.
Geldermann, Hugo, Gross-Lichterfelde-Ost, near Berlin, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Monoazo dyestuff and making same. No. 984,900; Feb. 21; Sp. p. 3547; Gaz. vol. 163; p. 627.
Geldermann, Hugo, Gross-Lichterfelde-Ost, near Berlin, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Yellow monoazo dye and making same. No. 988,870; Apr. 4; Sp. p. 1222; Gaz. vol. 165; p. 195.
Geldermann, Hugo, Gross-Lichterfelde-Ost, near Berlin, Germany, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Azo dye for wool. No. 1,011,770; Dec. 12; Sp. p. 3074; Gaz. vol. 173; p. 515.
Geldermann, Hugo, Gross-Lichterfelde-Ost, near Berlin, and H. Oster, Charlottenburg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Monoazo dyestuff for chrome-mordanted wool. No. 983,132; Jan. 31; Sp. p. 6476; Gaz. vol. 162; p. 1126.
Gellert, Frank, Perth Amboy, and S. Gellert, Jersey City, N. J. Rope-tightener. No. 982,586; Jan. 24; Sp. p. 5304; Gaz. vol. 162; p. 914.
Gellert, Stanislaw. (See Gellert, Frank and S.)
Gelpke, Victor, Brunswick, Germany. Turbine. No. 1,002,669; Sept. 5; Sp. p. 1074; Gaz. vol. 170; p. 162.
Gem City Machine Company. (See Noble, Harry G., assignor.)

Alphabetical list of patentees—Continued.

Gem City Stove Company, The. (See Gummer, August M., assignor.)
General Air Products Company. (See Gallaudet, Edson F., assignor.)
General Air Products Company. (See Wood, Albert C., assignor.)
General Appliance Manufacturing Company. (See Mack and Horton, assignors.)
General Chemical Company. (See Croston, Henry, assignor.)
General Chemical Company. (See Stahl, Karl F., assignor.)
General Electric Company. (See Abbott, William G., Jr., assignor.)
General Electric Company. (See Ahlquist, Karl, assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Allen, Joseph H., assignor.)
General Electric Company. (See Alquist, Karl, assignor.)
General Electric Company. (See Anderson, Albert S., assignor.)
General Electric Company. (See Appelberg, Axel O., assignor.)
General Electric Company. (See Armstrong, Albert H., assignor.)
General Electric Company. (See Arsem, William C., assignor.)
General Electric Company. (See Atkinson and Scovil, assignors.)
General Electric Company. (See Atwood, Harry N., assignor.)
General Electric Company. (See Baldwin, Henry S., assignor.)
General Electric Company. (See Ball, Augustus A., Jr., assignor.)
General Electric Company. (See Ball and Wright, assignors.)
General Electric Company. (See Barringer, Lawrence E., assignor.)
General Electric Company. (See Barry, John C., assignor.)
General Electric Company. (See Batchelder, Asa F., assignor.)
General Electric Company. (See Baumgartner, Conrad, assignor.)
General Electric Company. (See Beechlyn, John T., assignor.)
General Electric Company. (See Bell, Thomas, assignor.)
General Electric Company. (See Berg, Ernst J., assignor.)
General Electric Company. (See Berry, Arthur F., assignor.)
General Electric Company. (See Berry, Frederick E., assignor.)
General Electric Company. (See Berry, George, assignor.)
General Electric Company. (See Blau, Fritz, assignor.)
General Electric Company. (See Blondel, André, assignor.)
General Electric Company. (See Blondel and Dobkevitch, assignors.)
General Electric Company. (See Boyd, Frederic R. C., assignor.)
General Electric Company. (See Bralley, Walter S., assignor.)
General Electric Company. (See Broido, David, assignor.)
General Electric Company. (See Burnham, Joseph L., assignor.)
General Electric Company. (See Burrows, William R., assignor.)
General Electric Company. (See Callan, John G., assignor.)
General Electric Company. (See Carichoff, Eugene R., assignor.)
General Electric Company. (See Carroll, Morris B., assignor.)
General Electric Company. (See Case, Frank E., assignor.)
General Electric Company. (See Christensen, Christen, assignor.)
General Electric Company. (See Churchward, Alexander, assignor.)
General Electric Company. (See Coates, Jesse, assignor.)
General Electric Company. (See Coffin, Francis P., assignor.)
General Electric Company. (See Coffman, Walter M., assignor.)
General Electric Company. (See Coolidge, William D., assignor.)
General Electric Company. (See Corey, Fred B., assignor.)
General Electric Company. (See Creighton, Elmer E. F., assignor.)
General Electric Company. (See Cubelic, Ludwig, assignor.)
General Electric Company. (See Cubitt, Archibald S., assignor.)
General Electric Company. (See Curtis, Charles G., assignor.)
General Electric Company. (See D'Arcy, Cecil R., assignor.)
General Electric Company. (See Dawson, William F., assignor.)
General Electric Company. (See Day, Maxwell W., assignor.)
General Electric Company. (See De Reamer, Frank C., assignor.)
General Electric Company. (See Dempster, Alexander, assignor.)
General Electric Company. (See Dempster, John T. H., assignor.)
General Electric Company. (See Dole, Henry H., assignor.)
General Electric Company. (See Duryee, Frederick G., assignor.)
General Electric Company. (See Emmet, William L. R., assignor.)
General Electric Company. (See Erben and Burnham, assignors.)
General Electric Company. (See Evans, Evan, assignor.)
General Electric Company. (See Eveleth, Charles E., assignor.)
General Electric Company. (See Farquhar, Edmund H., assignor.)
General Electric Company. (See Ferguson, Samuel, assignor.)
General Electric Company. (See Fink, Colin G., assignor.)
General Electric Company. (See Fish, Walter C., assignor.)
General Electric Company. (See Fish and Stanley, assignors.)
General Electric Company. (See Frank, John J., assignor.)
General Electric Company. (See Freeman, John H., assignor.)
General Electric Company. (See Friedrichsen, Heinrich, assignor.)
General Electric Company. (See Fritz, Walter, assignor.)
General Electric Company. (See Gardner, Edgar S., assignor.)
General Electric Company. (See Gehrkens, Edward F., assignor.)
General Electric Company. (See Geisenhöner and Stone, assignors.)
General Electric Company. (See Gilson, Emery G., assignor.)
General Electric Company. (See Glaser, Ludwig, assignor.)
General Electric Company. (See Goodwin, Victor E., assignor.)
General Electric Company. (See Green, Charles M., assignor.)
General Electric Company. (See Guay, Emile J., assignor.)
General Electric Company. (See Haddrell, Charles H., assignor.)
General Electric Company. (See Hall, John L., assignor.)
General Electric Company. (See Hall and Metzger, assignors.)
General Electric Company. (See Halliwell, Reginald F., assignor.)
General Electric Company. (See Halsey, Edward S., assignor.)
General Electric Company. (See Halvorson, Cromwell A. B., Jr., assignor.)
General Electric Company. (See Hamlyn, William P., assignor.)
General Electric Company. (See Hansen, Charles A., assignor.)
General Electric Company. (See Hanzlik, Henry J., assignor.)
General Electric Company. (See Härdén, Johannes, assignor.)
General Electric Company. (See Hartley, James J., assignor.)
General Electric Company. (See Haskins, Caryl D., assignor.)
General Electric Company. (See Hawkins, Laurence A., assignor.)
General Electric Company. (See Hayden, Joseph L. R., assignor.)
General Electric Company. (See Hellmund, Rudolf E., assignor.)
General Electric Company. (See Hertz, Hjalmar, assignor.)
General Electric Company. (See Hewlett, Edward M., assignor.)
General Electric Company. (See Hewlett and Hill, assignors.)
General Electric Company. (See Hill, Charles H., assignor.)
General Electric Company. (See Holmes, Charles E., assignor.)
General Electric Company. (See Howell, Fred B., assignor.)
General Electric Company. (See Howell, John W., assignor.)
General Electric Company. (See Janisch and Linke, assignors.)

Alphabetical list of patentees—Continued.

General Electric Company. (See Jenckes, Ray G., assignor.)
General Electric Company. (See Johannesen, Svend E., assignor.)
General Electric Company. (See Johnson, Edwin, assignor.)
General Electric Company. (See Junggren, Oscar, assignor.)
General Electric Company. (See Karlberg, Ernst, assignor.)
General Electric Company. (See Keller, Huldreich, assignor.)
General Electric Company. (See Kieser, Walter, assignor.)
General Electric Company. (See Kingwell, Kennett F., assignor.)
General Electric Company. (See Kirkland, John W., assignor.)
General Electric Company. (See Kjolseth, Ole K., assignor.)
General Electric Company. (See Klinckert, Wilhelm, assignor.)
General Electric Company. (See Knight, Charles D., assignor.)
General Electric Company. (See Knight, Zimmer, and Ford, assignors.)
General Electric Company. (See Kruh, Osias O., assignor.)
General Electric Company. (See Kuhlmann, Karl, assignor.)
General Electric Company. (See Langmuir, Irving, assignor.)
General Electric Company. (See Larsen, Ingvald, assignor.)
General Electric Company. (See Larzelere, Charles B., assignor.)
General Electric Company. (See Leavitt, Frank M., assignor.)
General Electric Company. (See Lemp, Hermann, assignor.)
General Electric Company. (See Little, Clarence E., assignor.)
General Electric Company. (See Lloyd, William J., assignor.)
General Electric Company. (See Loewenstein, Louis C., assignor.)
General Electric Company. (See Lovell, Ralph L., assignor.)
General Electric Company. (See Lum, Walter O., assignor.)
General Electric Company. (See Mansur, Clarence W., assignor.)
General Electric Company. (See Marshall, John T., assignor.)
General Electric Company. (See Marvin, Arba B., Jr., assignor.)
General Electric Company. (See Mauger, Henry J., assignor.)
General Electric Company. (See Meyer, Hans S., assignor.)
General Electric Company. (See Mitchell, Joseph I., assignor.)
General Electric Company. (See Moak, William V., assignor.)
General Electric Company. (See Monasch, Berthold, assignor.)
General Electric Company. (See Moss, Sanford A., assignor.)
General Electric Company. (See Noeggerath, Jakob E., assignor.)
General Electric Company. (See Ostermann, Rudolf M., assignor.)
General Electric Company. (See Otto, Johann, assignor.)
General Electric Company. (See Parkhurst, Leon F., assignor.)
General Electric Company. (See Peek, Frank W., Jr., assignor.)
General Electric Company. (See Potter, William B., assignor.)
General Electric Company. (See Pratt, William H., assignor.)
General Electric Company. (See Regenstreif, Jakob, assignor.)
General Electric Company. (See Reist, Henry G., assignor.)
General Electric Company. (See Remané, Hermann, assignor.)
General Electric Company. (See Remané, Hermann C. G., assignor.)
General Electric Company. (See Rice, Edwin W., Jr., assignor.)
General Electric Company. (See Rice, Richard H., assignor.)
General Electric Company. (See Rice and Callan, assignors.)
General Electric Company. (See Richardson, Austin E., assignor.)
General Electric Company. (See Riddell, John, assignor.)
General Electric Company. (See Robinson, Conway, assignor.)
General Electric Company. (See Rogers, Robert H., assignor.)

General Electric Company. (See Roos, Hermann, assignor.)
General Electric Company. (See Rucker, Benjamin P., assignor.)
General Electric Company. (See Rupley, George H., assignor.)
General Electric Company. (See Samuelson, Frederick, assignor.) (Reissue.)
General Electric Company. (See Sargent, Howard R., assignor.)
General Electric Company. (See Schaller, Otto, assignor.)
General Electric Company. (See Schellenberger, Albert, assignor.)
General Electric Company. (See Schröter, Karl, assignor.)
General Electric Company. (See Schwentker, Frederick F., assignor.)
General Electric Company. (See Seabolt, Frank J., assignor.)
General Electric Company. (See Shailor and Storer, assignors.)
General Electric Company. (See Smith, Henry L., assignor.)
General Electric Company. (See Sneed, William F., assignor.)
General Electric Company. (See Stanley, Arthur M., assignor.)
General Electric Company. (See Stearns, Ray, assignor.)
General Electric Company. (See Steinmetz, Charles P., assignor.)
General Electric Company. (See Stevens, George E., assignor.)
General Electric Company. (See Swan, Alfred, assignor.)
General Electric Company. (See Taylor, John B., assignor.)
General Electric Company. (See Thomson, Elihu, assignor.)
General Electric Company. (See Thomson and Shand, assignors.)
General Electric Company. (See Tirrill, Allen A., assignor.)
General Electric Company. (See Tornberg, Knut, assignor.)
General Electric Company. (See Tournier, Julius C., assignor.)
General Electric Company. (See Tritle, John F., assignor.)
General Electric Company. (See Troy, Matthew O., assignor.)
General Electric Company. (See Underwood, Louis E., assignor.)
General Electric Company. (See Upp and Wakefield, assignors.)
General Electric Company. (See Ver Planck, William E., assignor.)
General Electric Company. (See Wagner, Edward A., assignor.)
General Electric Company. (See Wallace, John M., assignor.)
General Electric Company. (See Warren, Aldred K., assignor.)
General Electric Company. (See Weintraub, Ezechiel, assignor.)
General Electric Company. (See Wentworth, Arthur M., assignor.)
General Electric Company. (See White, Harold E., assignor.)
General Electric Company. (See Whitney, Eddy R., assignor.)
General Electric Company. (See Whitney, Willis R., assignor.)
General Electric Company. (See Wiard, John B., assignor.)
General Electric Company. (See Wilkinson, James, assignor.)
General Electric Company. (See Wright and Weston, assignors.)
General Electric Company. (See Wood, Howard I., assignor.)
General Electric Company. (See Woodbridge, Jonathan E., assignor.)
General Electric Company. (See Wright, Gilbert, assignor.)
General Electric Company. (See York, John A., assignor.)
General Electric Company. (See Zix, Carl E., assignor.)
General Electric Company. (See Zweigbergk, Thorsten von, assignor.)
General Fire Extinguisher Company. (See Granger, Almon M., assignor.)
General Fire Extinguisher Company. (See Hammond, Wilberforce B., assignor.)
General Fire Extinguisher Company. (See Hewitt, Richard B., assignor.)
General Fire Extinguisher Company. (See Meloon, Jonathan C., assignor.)
General Fire Extinguisher Company. (See Reynolds, George H., assignor.)
General Fire Extinguisher Co. (See Richmond, Arthur J., assignor.)
General Fireproofing Company, The. (See Schaffert, Adolf H., assignor.)

Alphabetical list of patentees—Continued.

General Fireproofing Company, The. (See White, Herbert E., assignor.)
General Gas Light Company. (See Gillinder, Edgar A., assignor.)
General Knit Fabric Company. (See Morley, Joseph D., assignor.)
General Knit Fabric Company. (See Scott, Robert W., assignor.)
General Package Company, The. (See Edge, William, assignor.)
General Railway Signal Company. (See Dodgson, Frank L., assignor.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
General Railway Signal Company. (See Poor, Charles O., assignor.)
General Railway Signal Company. (See Rice, Willis B., assignor.)
General Railway Supply Co. (See Schroyer, Harry H., assignor.)
General Railway Supply Company. (See Rausch and Davis, assignors.)
General Reduction Company. (See Bergh, Loebinger, and Neuberger, assignors.)
General Utility Co. (See Parker and Wirt, assignors.)
Généreux, François H., Sherbrooke, Quebec, Canada. Device for holding twine. No. 1,005,702; Oct. 10; Sp. p. 2493; Gaz. vol. 171; p. 427.
Genet, Caroline. (See Genet, Henry E., assignor.)
Genet, Henry E., assignor to C. Genet, New York, N. Y. Cleaning metals. No. 980,627; Jan. 3; Sp. p. 962; Gaz. vol. 162; p. 157.
Geneux, Emile C., Jeanerette, La. Hat-pin. No. 982,132; Jan. 17; Sp. p. 4353; Gaz. vol. 162; p. 727.
Genin, Jean B., assignor to C. H. Hale, St. Albans, Vt. Train-line coupling. No. 1,006,745; Oct. 24; Sp. p. 4807; Gaz. vol. 171; p. 854.
Genolin, Thomas M., Indianapolis, Ind. Changeable sign. No. 984,476; Feb. 14; Sp. p. 2625; Gaz. vol. 163; p. 443.
Genossenschaft fur Textilpatente, G. m. b. H. (See Koechlin, Albert G., assignor.)
Genrich, Gustav H., Dorchester, Wis. Sleigh-knee. No. 987,713; Mar. 28; Sp. p. 4134; Gaz. vol. 164; p. 756.
Genthe, Alfred, Goslar, Germany. Manufacturing linoxyn and like products especially intended for utilization in the linoleum manufacture. No. 986,562; Mar. 14; Sp. p. 1717; Gaz. vol. 164; p. 304.
Genthner, Charles M., assignor to The Culter & Proctor Stove Co., Peoria, Ill. Stove-door hinge. No. 1,002,199; Aug. 29; Sp. p. 6391; Gaz. vol. 169; p. 1151.
Genthner, Charles M., assignor to Culter & Proctor Stove Co., Peoria, Ill. Cook stove or range. No. 1,008,025; Nov. 7; Sp. p. 819; Gaz. vol. 172; p. 130.
Gentilhomme, Henri G. (See Mathelot and Gentilhomme.)
Gentle, William M., Greenwood, Ind. Compressing-machine. No. 988,328; Apr. 4; Sp. p. 79; Gaz. vol. 165; p. 14.
Gentle, William M., Greenwood, Ind. Carbureter. No. 993,516; May 30; Sp. p. 5766; Gaz. vol. 166; p. 1053.
Gentle, William M., Greenwood, Ind. Carbureter. No. 1,000,398; Aug. 15; Sp. p. 2524; Gaz. vol. 169; p. 471.
Gentle, William M., Greenwood, Ind. Amusement apparatus. No. 1,003,249; Sept. 12; Sp. p. 2347; Gaz. vol. 170; p. 403.
Genuit, John H., Stockton, Cal. Nail-set. No. 981,548; Jan. 10; Sp. p. 3097; Gaz. vol. 162; p. 505.
Geo. Borgfeldt & Co. (See Schnarr, Henry M., assignor.)
Geo. Borgfeldt & Co. (See Sollmann, Ekko, assignor.)
Geo. Ertel Company, The. (See Tuttle, Josiah S., assignor.)
Geoffroy, Raymond, Arctic, R. I. Wrench. No. 988,565; Apr. 4; Sp. p. 585; Gaz. vol. 165; p. 94.
Geoffroy, Raymond, Arctic, R. I. Pipe-cutter. No. 1,006,080; Oct. 17; Sp. p. 3303; Gaz. vol. 171; p. 590.
Geofroy, Antoine de, Paris, France. Fluid-pressure motor. No. 997,802; July 11; Sp. p. 2583; Gaz. vol. 168; p. 443.
Geoghegan, Frederick W., Vancouver, British Columbia, Sp. p. 1783; Gaz. vol. 170; p. 309.
Geometric Tool Company, The. (See Sampson, George T., Canada. Trolley-catcher. No. 1,002,983; Sept. 12; assignor.)
George A. Ohl & Co. (See Ohl, George A., Jr., assignor.)
George, Albert F., Enid, Okla. Windmill. No. 991,842; May 9; Sp. p. 2171; Gaz. vol. 166; p. 387.
George, Andrew J., Pulaski, Iowa. Spring-hinge. No. 1,000,254; Aug. 8; Sp. p. 2196; Gaz. vol. 169; p. 391.
George, Charles H. (See Shipley, Lewis, and George.)
George H. Frothingham Co. (See Prescott, Arthur T., assignor.)
George, James H. (See Nichols and George.)
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Delivery mechanism of a billet-heating furnace. No. 997,494; July 11; Sp. p. 1852; Gaz. vol. 168; p. 334.
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Gas-producer. No. 998,168; July 18; Sp. p. 3396; Gaz. vol. 168; p. 613.
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Regenerative metal-heating furnace. No. 1,003,733; Sept. 19; Sp. p. 3379; Gaz. vol. 170; p. 603.
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Metal-cutting shears. No. 1,009,298; Nov. 21; Sp. p. 3740; Gaz. vol. 172; p. 651.
George, John K., assignor to Classen Lignum Company, Chicago, Ill. Forming a food product. No. 981,634; Jan. 17; Sp. p. 3278; Gaz. vol. 162; p. 556.
George, Kimber A., New Haven, Conn. Flying-machine. No. 1,012,540; Dec. 19; Sp. p. 4740; Gaz. vol. 173; p. 814.
George Murphy, Inc. (See Holbrook, John K., assignor.)
George Oldham & Son Company. (See Oldham, Samuel, assignor.)
George P. Bent Company. (See Bent, George H., assignor.)
George, Samuel P., Puyallup, Wash. Load-retaining attachment for logging-cars. No. 998,084; July 18; Sp. p. 3225; Gaz. vol. 168; p. 583.
George T. Smith Middlings Purifier Company. (See Smith, George T., assignor.)
George T. Smith Purifying Company. (See Smith, George T., assignor.)
George W. Dover Company. (See Kuehner, Charles, assignor.)
George W. Merritt Company. (See Merritt, George W., assignor.)
Georgeson, Peter J., Tustin, Wis. Carbureted-air mixer. No. 1,002,670; Sept. 5; Sp. p. 1076; Gaz. vol. 170; p. 162.
Geppert, Hermann, Karlsruhe, Germany. Protecting articles from earth-currents. No. 989,596; Apr. 18; Sp. p. 2810; Gaz. vol. 165; p. 497.
Geraghty, John P., *et al.* (See Naylor, George W., assignor.)
Geraghty, John P., assignor of forty-seven and one-half one-hundredths to himself, forty-seven and one-half one-hundredths to E. F. Kopetschny, Jersey City, N. J., and five one-hundredths to E. Goodlad, Montgomery, N. Y. Car-fender. No. 983,889; Feb. 14; Sp. p. 1381; Gaz. vol. 163; p. 247.
Geraghty, John P., and G. W. Naylor, Jersey City, N. J., assignors of forty-five one-hundredths to E. C. Curry and C. A. Stoneham, New York, N. Y. Car-fender. No. 988,999; Apr. 11; Sp. p. 1493; Gaz. vol. 165; p. 262.
Gerard Development Company. (See Lovekin, Luther D., assignor.)
Gerard, Léon, Brussels, Belgium, assignor to Gerard Ozone Process Company. Apparatus for producing and utilizing electrical effluvia. No. 982,587; Jan. 24; Sp. p. 5305; Gaz. vol. 162; p. 915.
Gerard Ozone Process Company. (See Gerard, Léon, assignor.)
Gerard Ozone Process Company. (See Meeker, Clifford D., assignor.)
Gerard Ozone Process Company. (See Meeker and Wallace, assignors.)
Gerard Ozone Process Company. (See Twombly, Alexander H., assignor.)
Gerard, Roy H., Berkeley, Cal. Sign-holder for telephone-dials. No. 1,000,794; Aug. 15; Sp. p. 3412; Gaz. vol. 169; p. 613.
Gerber, Dwight, Allegheny, Pa. Car-truck. No. 1,007,686; Nov. 7; Sp. p. 59; Gaz. vol. 172; p. 12.
Gerber, Emanuel, Kansas City, Mo. Lubricating system for engines. No. 1,012,071; Dec. 19; Sp. p. 3777; Gaz. vol. 173; p. 654.
Gerdau, Berthold, Dusseldorf, Germany. Hydraulic press with pressure-intensifier. No. 1,007,349; Oct. 31; Sp. p. 6149; Gaz. vol. 171; p. 1121.
Gerde, Otto, and H. P. Kelly, Minneapolis, Minn. Lawn-mower-sharpening device. No. 982,423; Jan. 24; Sp. p. 4963; Gaz. vol. 162; p. 858.
Gerdes, August, Gretna, La. Machine for stripping and topping cane, corn, &c. No. 1,009,233; Nov. 21; Sp. p. 3592; Gaz. vol. 172; p. 627.
Gerdes, Charles W., Mound Valley, Kans. Disk cultivator and harrow. No. 982,051; Jan. 17; Sp. p. 4198; Gaz. vol. 162; p. 700.
Gerdien, Hans, Halensee, near Berlin, assignor to Siemens & Halske, A. G., Berlin, Germany. Current-relaying apparatus. No. 1,004,012; Sept. 26; Sp. p. 4007; Gaz. vol. 170; p. 725.
Gerdum, Albert. (See Hoehn and Gerdum.)
Gere, William B. (See Merrell and Gere.)
Gergacsevics, Otto, Vienna, Austria-Hungary. Mechanical tinder-box. No. 992,766; May 23; Sp. p. 4138; Gaz. vol. 166; p. 766.
Gerhard, Karl F., Hatton, Wash. Pump. No. 1,006,843; Oct. 24; Sp. p. 5051; Gaz. vol. 171; p. 890.
Gerhardt, Karl, New Orleans, La., assignor to American Railway Mail Device Company. Mail-bag-handling apparatus. No. 1,000,255; Aug. 8; Sp. p. 2199; Gaz. vol. 169; p. 391.
Gerhart, Melvin, Philadelphia, Pa. Combined heel-lining and stocking-protector for shoes. No. 1,012,253; Dec. 19; Sp. p. 4178; Gaz. vol. 173; p. 717.
Gerken, John C., Saginaw, Mich. Beet-harvester. No. 983,702; Feb. 7; Sp. p. 962; Gaz. vol. 163; p. 152.

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Gerlach, Clarence G., Versailles, Ohio. Hame-fastener. No. 992,651; May 16; Sp. p. 3907; Gaz. vol. 166; p. 697.
Gerlach, Fred, trustee. (See Brown, Earl J., assignor.)
Gerlach, George W., and L. Edwards, Cumberland, Iowa. Transmission mechanism. No. 999,643; Aug. 1; Sp. p. 878; Gaz. vol. 169; p. 152.
Gerlach, John J., Jr. (See Fetzer, John, assignor.)
Gerlach, Thomas A., Harvey, Ill. Spring-switch. No. 995,341; June 13; Sp. p. 2691; Gaz. vol. 167; p. 462.
Gerli, Paul. (See Pruden, George S., assignor.)
Gerlinger, Carl F., Dallas, Oreg. Lubricator for car-wheels. No. 997,446; July 11; Sp. p. 1760; Gaz. vol. 168; p. 319.
Germain, Edward A. J., Bridgeport, Conn. Adjusting device for mirrors. No. 993,051; May 23; Sp. p. 4773; Gaz. vol. 166; p. 868.
German American Ball Bearing Mfg. Co. (See Henzelman, Fritz, assignor.)
German-American Button Company. (See Hastings, Herbert, assignor.)
German Bronze Company. (See Edkin, Bert C., assignor.)
Germin, Joseph, Chicago, Ill. Disappearing receptacle. No. 992,767; May 23; Sp. p. 4139; Gaz. vol. 166; p. 766.
Germonprez, John A., Detroit, Mich. Cotter-pin. No. 996,756; July 4; Sp. p. 319; Gaz. vol. 168; p. 54.
Gernert, John. (See Palmer, Albert D., assignor.)
Gernsback, Hugo, New York, N. Y. Potentiometer. No. 988,456; Apr. 4; Sp. p. 353; Gaz. vol. 165; p. 57.
Gernsback, Hugo, New York, N. Y. Electrolytic interrupter. No. 988,767; Apr. 4; Sp. p. 1029; Gaz. vol. 165; p. 164.
Gerrer, John H., assignor to Maney Manufacturing Company, East St. Louis, Ill. Wheeled scraper. No. 980,510; Jan. 3; Sp. p. 731; Gaz. vol. 162; p. 117.
Gerrish, Edward W., Lynn, Mass. Last. No. 1,007,091; Oct. 31; Sp. p. 5588; Gaz. vol. 171; p. 1027.
Gerrish, Edward W., Lynn, Mass. Last. No. 1,007,092; Oct. 31; Sp. p. 5591; Gaz. vol. 171; p. 1028.
Gerry, James E., South Bellingham, Wash. Ice-creeper. No. 995,784; June 20; Sp. p. 3705; Gaz. vol. 167; p. 646.
Gerster, Max, Montreux, and E. L. Hug, Berne, Switzerland, assignors to Sprague, Warner & Company, Chicago, Ill. Machine for treating coffee-beans. No. 1,007,093; Oct. 31; Sp. p. 5593; Gaz. vol. 171; p. 1028.
Gertenbach, August, Quincy, Ill. Seat. No. 1,007,779; Nov. 7; Sp. p. 287; Gaz. vol. 172; p. 45.
Gervais, Arthur A. (See Shearer and Gervais.)
Gervais, Wainwright B., assignor to Variety Manufacturing Company, Chicago, Ill. Elevator-door. No. 998,242; July 18; Sp. p. 3566; Gaz. vol. 168; p. 639.
Gervais, Wladimir, St. Petersburg, Russia. Lever for pianolas and like instruments. No. 1,010,249; Nov. 28; Sp. p. 5703; Gaz. vol. 172; p. 1020.
Gerwien, William, San Francisco, Cal. Door-lock. No. 1,007,859; Nov. 7; Sp. p. 496; Gaz. vol. 172; p. 74.
Gesellschaft für drahtlose Telegraphie m. b. H. (See Rendahl, Ragnar H., assignor.)
Gesellschaft für drahtlose Telegraphie m. b. H. (See Schloemilch and Pichon, assignors.)
Gesellschaft zur Verwertung der Hohlkörperpatente Dr. Knoll G. m. b. H. (See Knoll, Rudolf, assignor.)
Gess, Charles, St. Joseph, Mich., assignor to H. L. Tiffany, New Bedford, Mass. Cone-tube. No. 986,379; Mar. 7; Sp. p. 1311; Gaz. vol. 164; p. 211.
Gessert, Charles F., Brooklyn, N. Y., and J. W. Whitford, Jersey City, N. J., assignors to Davis-Bournonville Acetylene Development Company, Pierre, S. D. Apparatus for cutting piles or the like by means of gases. No. 1,000,399; Aug. 15; Sp. p. 2527; Gaz. vol. 169; p. 472.
Gessler, Otto. (See Henkel and Gessler.)
Gessner, David, Worcester, Mass. Cloth-treating apparatus. No. 988,703; Apr. 4; Sp. p. 894; Gaz. vol. 165; p. 142.
Gessner, David, Worcester, Mass. Apparatus for treating cloth. No. 994,075; May 30; Sp. p. 6928; Gaz. vol. 166; p. 1244.
Gessner, David, Worcester, Mass. Apparatus for extracting liquid from cloth. No. 996,637; July 4; Sp. p. 89; Gaz. vol. 168; p. 16.
Gestetner, David, Tottenham Hale, England. Printing-type. No. 1,008,132; Nov. 7; Sp. p. 1040; Gaz. vol. 172; p. 169.
Getchell, Augustus W., Lakewood, Ohio. Cotton-picker. No. 988,566; Apr. 4; Sp. p. 586; Gaz. vol. 165; p. 95.
Getchell, Wendell P., Boston, Mass. Combined desk and seat. No. 1,012,349; Dec. 19; Sp. p. 4379; Gaz. vol. 173; p. 750.
Gettelman, Frederick, Milwaukee, Wis. Pasteurizing apparatus. No. 989,141; Apr. 11; Sp. p. 1780; Gaz. vol. 165; p. 310.
Gettman, George C., Denver, Colo. Beet-harvester. No. 990,726; Apr. 25; Sp. p. 5304; Gaz. vol. 165; p. 915.
Geuder, Paeschke & Frey Co. (See Kempter, Philip, assignor.)
Geurink, Bernard A., East Cleveland, assignor to The Trenkamp Stove & Manufacturing Company, Cleveland, Ohio. Water-heater. No. 998,609; July 25; Sp. p. 4372; Gaz. vol. 168; p. 801.
Gewerkschaft Dorstfeld. (See Trippe, Fritz, assignor.)
Geyer, Hans, Munich, Germany. Device for cutting slits in brick walls. No. 984,132; Feb. 14; Sp. p. 1905; Gaz. vol. 163; p. 327.
Geyer, William E., Cambridge, Mass. Exhaust-nozzle for power-boats. No. 987,130; Mar. 21; Sp. p. 2858; Gaz. vol. 164; p. 526.
Geynet, Louis. (See Stebbins and Geynet.)
Ghadiali, Dinshah P. F., Surat, India. Electrical writing apparatus. No. 983,703; Feb. 7; Sp. p. 964; Gaz. vol. 163; p. 153.
Ghilarducci, Francesco, Rome, Italy. Electrostatic machine. No. 1,011,939; Dec. 19; Sp. p. 3469; Gaz. vol. 173; p. 607.
Ghira, Andrea, Triest, Austria-Hungary. Manufacture of reinforced-concrete beams. No. 1,010,250; Nov. 28; Sp. p. 5704; Gaz. vol. 172; p. 1020.
Giammattei, Angelo. (See Liaci and Giammattei.)
Giant Ladder Co. (See Abrams, Victor, assignor.)
Gibás, Francis, Polgár, Austria-Hungary. Continuous engine-plowing with two engines. No. 1,003,353; Sept. 12; Sp. p. 2557; Gaz. vol. 170; p. 440.
Gibb, Alexander, Pontypool, and T. G. Menzies, London, England. Apparatus for laying concrete. No. 1,004,410; Sept. 26; Sp. p. 4880; Gaz. vol. 170; p. 861.
Gibb, Alexander, Pontypool, England, and T. G. Menzies, North Queensferry, Scotland. Self-discharging skip. No. 1,006,931; Oct. 24; Sp. p. 5238; Gaz. vol. 171; p. 921.
Gibb, Andrew S., Punjab, India. Apparatus for delivering water for irrigation purposes. No. 1,012,072; Dec. 19; Sp. p. 3779; Gaz. vol. 173; p. 655.
Gibbens, Andrew J., Mountain Home, Tex. Wire-stretcher. No. 990,041; Apr. 18; Sp. p. 3752; Gaz. vol. 165; p. 648.
Gibbins, Frank, Utica, N. Y. Bag-holder. No. 1,005,956; Oct. 17; Sp. p. 3055; Gaz. vol. 171; p. 549.
Gibbon, Orris. (See Reck and Gibbon.)
Gibbon, Robert J., Chicago, Ill., assignor to International Device Company. Starting device for internal-combustion engines. No. 1,000,595; Aug. 15; Sp. p. 2978; Gaz. vol. 169; p. 545.
Gibbons, Charles J., Stratford, Conn. Rolling-mill. No. 1,004,771; Oct. 3; Sp. p. 485; Gaz. vol. 171; p. 80.
Gibbons, John W., Baker City, Oreg. Window-cleaner. No. 993,239; May 23; Sp. p. 5154; Gaz. vol. 166; p. 927.
Gibbons, William J., Philadelphia, Pa. Switch and fuse support and cover. No. 984,759; Feb. 21; Sp. p. 3281; Gaz. vol. 163; p. 579.
Gibbons, William P. (See Guest and Gibbons.)
Gibbs, Edwin B., Omaha, Nebr. Gate-latch. No. 985,157; Feb. 28; Sp. p. 4107; Gaz. vol. 163; p. 748.
Gibbs, Elmer W., assignor to The Gibbs Manufacturing Company, Canton, Ohio. Top. No. 1,005,020; Oct. 3; Sp. p. 987; Gaz. vol. 171; p. 165.
Gibbs, Frank I., Birmingham, England. Producing articles by electrodeposition. No. 984,760; Feb. 21; Sp. p. 3283; Gaz. vol. 163; p. 579.
Gibbs, Frank I., Birmingham, England. Producing metallic vessels by electrodeposition. No. 998,085; July 18; Sp. p. 3227; Gaz. vol. 168; p. 583.
Gibbs, Frank I., Birmingham, England. Appliance for producing articles by electrodeposition. No. 1,002,258; Sept. 5; Sp. p. 159; Gaz. vol. 170; p. 20.
Gibbs Gas Engine Company, The. (See Akerlund, Gustaf, assignor.)
Gibbs, Harvey A., Genoa Junction, Wis. Receptacle-cover. No. 1,009,234; Nov. 21; Sp. p. 3597; Gaz. vol. 172; p. 628.
Gibbs, Henry, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Lawn-sprinkler. No. 985,522; Feb. 28; Sp. p. 4938; Gaz. vol. 163; p. 874.
Gibbs Manufacturing Company, The. (See Gibbs, Elmer W., assignor.)
Gibbs Manufacturing Company, The. (See Preyer, Frederick W., assignor.)
Gibbs, Sylvester W., Canton, Ohio. Embroidery-hoop. No. 989,597; Apr. 18; Sp. p. 2812; Gaz. vol. 165; p. 497.
Gibbs, William T., Buckingham, and R. A. Witherspoon, Shawinigan Falls, Quebec, assignors to The Shawinigan Carbide Company Limited, Montreal, Canada. Electrode for electric furnaces. No. 1,003,354; Sept. 12; Sp. p. 2559; Gaz. vol. 170; p. 440.
Gibney, James W., assignor to W. P. Taylor Company, Buffalo, N. Y. Core for molding car journal-boxes. No. 982,588; Jan. 24; Sp. p. 5310; Gaz. vol. 162; p. 915.
Gibson, Angus H. (See Roberts and Gibson.)
Gibson, Bela O., Spokane, Wash. Can-opener. No. 1,004,013; Sept. 26; Sp. p. 4010; Gaz. vol. 170; p. 725.
Gibson, Charles D. (See Baerbalck and Gibson.)
Gibson, Charles D., and H. Baerbalck, assignors to The Hamilton Machine Tool Company, Hamilton, Ohio. Shaper. No. 988,292; Mar. 28; Sp. p. 5378; Gaz. vol. 164; p. 951.
Gibson, Edward T., Brooklyn, N. Y. Toy. No. 998,243; July 18; Sp. p. 3568; Gaz. vol. 168; p. 639.
Gibson, Foster C. (See Stubling and Gibson.)
Gibson, George H. (See Clark and Gibson.)
Gibson, George H., Montclair, N. J. Slide-rule. No. 980,412; Jan. 3; Sp. p. 479; Gaz. vol. 162; p. 83.
Gibson, George H., Montclair, N. J., assignor to Harrison Safety Boiler Works, Philadelphia, Pa. Water-heating apparatus. No. 1,002,144; Aug. 29; Sp. p. 6265; Gaz. vol. 169; p. 1133.

Alphabetical list of patentees—Continued.

Gibson, Hugo C., New York, N. Y. Vehicle-wheel. No. 986,452; Mar. 14; Sp. p. 1473; Gaz. vol. 164; p. 265.
Gibson, James G., and G. Pegg, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,004,772; Oct. 3; Sp. p. 487; Gaz. vol. 171; p. 80.
Gibson, James H., and H. L. Whitman, St. Louis, Mo. Transmission-gear. No. 996,920; July 4; Sp. p. 665; Gaz. vol. 168; p. 109.
Gibson, John, Fromberg, Mont. Culvert. No. 1,004,866; Oct. 3; Sp. p. 694; Gaz. vol. 171; p. 113.
Gibson, John H., Bruin, Pa. Clamp. No. 989,499; Apr. 11; Sp. p. 2543; Gaz. vol. 165; p. 430.
Gibson Mandolin-Guitar Company. (See Laurian, George D., assignor.)
Gibson, Robert L., Philadelphia, Pa. Sound-box for talking-machines. No. 990,973; May 2; Sp. p. 308; Gaz. vol. 166; p. 53.
Gibson, Robert L., Philadelphia, Pa. Sound-reproducing machine. No. 993,980; May 30; Sp. p. 6733; Gaz. vol. 166; p. 1212.
Gibson, Thomas M. (See Coghill, David, assignor.)
Giddens, Lewis D., Wilson, N. C. Clock. No. 990,809; Apr. 25; Sp. p. 5481; Gaz. vol. 165; p. 944.
Giddens, Perry G., Hartsfield, Ga. Back-band and trace holder. No. 991,713; May 9; Sp. p. 1924; Gaz. vol. 166; p. 346.
Giddings, Homer E., Amarillo, Tex. Telescope turbine wind-engine. No. 1,002,833; Sept. 12; Sp. p. 1440; Gaz. vol. 170; p. 257.
Giddings, Lawson H., Pasadena, Cal. Electrical crematory. No. 989,960; Apr. 18; Sp. p. 3581; Gaz. vol. 165; p. 621.
Giddings, Squire R., Timnath, Colo. Beet-puller. No. 992,955; May 23; Sp. p. 4569; Gaz. vol. 166; p. 834.
Gidley, Oscar R., Oxford, Ala. Mail-box. No. 1,009,235; Nov. 21; Sp. p. 3599; Gaz. vol. 172; p. 628.
Gierding, Charles E., Belleville, assignor to Sterling-Meaker Company, Newark, N. J. Safety-brake for street-cars. No. 983,041; Jan. 31; Sp. p. 6305; Gaz. vol. 162; p. 1096.
Gies, Ernst A. (See Lutter and Gies.)
Giese, Hans, Berlin, Germany. Floating dock. No. 984,133; Feb. 14; Sp. p. 1907; Gaz. vol. 163; p. 327.
Giese, James A., assignor to The Adams & Westlake Company, Chicago, Ill. Sliding-door latch. No. 1,003,896; Sept. 19; Sp. p. 3694; Gaz. vol. 170; p. 657.
Giesecke, Carl, Brunswick, Germany. Apparatus for dressing the ores containing gold and silver. No. 1,003,595; Sept. 19; Sp. p. 3079; Gaz. vol. 170; p. 555.
Gieselmann, Edward, assignor of one-third to E. H. Meyer and one-third to G. Gieselmann, Mount Olive, Ill. Rail-joint. No. 983,890; Feb. 14; Sp. p. 1383; Gaz. vol. 163; p. 248.
Gieselmann, George, *et al.* (See Gieselmann, Edward, assignor.)
Giesler, Franklin B., assignor to The Galland-Henning Pneumatic Malting Drum Mfg. Co., Milwaukee, Wis. Rotary drier. No. 1,006,647; Oct. 24; Sp. p. 4610; Gaz. vol. 171; p. 822.
Giesting, Joseph G., San Francisco, Cal., assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Molding-bar for vaults. No. 985,796; Mar. 7; Sp. p. 59; Gaz. vol. 164; p. 13.
Giffen, John W., Greensburg, Pa. Wrench. No. 993,052; May 23; Sp. p. 4774; Gaz. vol. 166; p. 868.
Giffin, John E., Saltillo, assignor of one-fourth to L. N. Crum, Mount Union, Pa. Chalk-line holder. No. 997,803; July 11; Sp. p. 2584; Gaz. vol. 168; p. 443.
Giffin, Minas D., A. G. Lingley, T. and J. Cassidy, Butte, Mont. Mineral paint. No. 984,477; Feb. 14; Sp. p. 2627; Gaz. vol. 163; p. 444.
Giffin, Thomas, Noblesville, Ind. Interchangeable shoe-last. No. 988,769; Apr. 4; Sp. p. 1033; Gaz. vol. 165; p. 165.
Gifford, Albert J., assignor to W. H. Leland & Company, Worcester, Mass. Feed-lever connection for drills. No. 1,011,183; Dec. 12; Sp. p. 1763; Gaz. vol. 173; p. 308.
Gifford, Albert J., J. J. Burns, and B. S. T. Bishop, assignors to W. H. Leland & Company, Worcester, Mass. Spark-coil. No. 998,892; July 25; Sp. p. 5024; Gaz. vol. 168; p. 902.
Gifford, Albert M. and F. M., Mancelona, Mich. Shipping-crate. No. 1,002,511; Sept. 5; Sp. p. 735; Gaz. vol. 170; p. 108.
Gifford, Fred M. (See Gifford, Albert M. and F. M.)
Gifford, Charles A. (See Legh, Sydney C., assignor.)
Gifford, Ezra B., Laurel, Iowa. Latch. No. 995,860; June 20; Sp. p. 3873; Gaz. vol. 167; p. 673.
Gifford, Robert L. (See Cowles, Irving, assignor.)
Gifford, Robert L., assignor of one-half to I. Cowles, Chicago, Ill. Heating system. No. 987,871; Mar. 28; Sp. p. 4461; Gaz. vol. 164; p. 810.
Gifford, Robert L., and I. Cowles, Chicago, Ill. Heating system. No. 987,872; Mar. 28; Sp. p. 4464; Gaz. vol. 164; p. 811.
Gifford, Robert L., and I. Cowles, Chicago, Ill. Washing and filling system for locomotive-boilers. No. 990,482; Apr. 25; Sp. p. 4738; Gaz. vol. 165; p. 833.
Gil-Delgado y Olazabal, Vicente, Madrid, Spain. Resilient wheel. No. 1,005,021; Oct. 3; Sp. p. 989; Gaz. vol. 171; p. 165.
Gilbert, Charles L. (See Doerr, Harry E., assignor.)
Gilbert, Charles L. (See Komarek, Gustav, assignor.)
Gilbert, Edward R., Kittanning, Pa. Nut-lock. No. 984,134; Feb. 14; Sp. p. 1910; Gaz. vol. 163; p. 328.
Gilbert, Emerson, Ackworth, Iowa. Farm-gate. No. 985,025; Feb. 21; Sp. p. 3784; Gaz. vol. 163; p. 668.
Gilbert, Eugene, Gladstone, Mich. Tobacco-pipe. No. 1,006,648; Oct. 24; Sp. p. 4613; Gaz. vol. 171; p. 822.
Gilbert, George H., Philadelphia, Pa., assignor to The Kilbourn Knitting Machine Company, New Brunswick, N. J. Transferrer for knitted fabric. No. 1,003,447; Sept. 19; Sp. p. 2745; Gaz. vol. 170; p. 503.
Gilbert, George H., and G. W. Lindley, Philadelphia, Pa.; said Lindley assignor to James Leckie & Son Company, Camden, N. J. Glove-finger-knitting machine. No. 996,015; June 20; Sp. p. 4169; Gaz. vol. 167; p. 725.
Gilbert, George H., and G. W. Lindley, Philadelphia, Pa.; said Lindley assignor to James Leckie & Son Company, Camden, N. J. Pattern mechanism for glove-knitting machines. No. 996,036; June 20; Sp. p. 4219; Gaz. vol. 167; p. 733.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 986,629; Mar. 14; Sp. p. 1845; Gaz. vol. 164; p. 328.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 991,146; May 2; Sp. p. 675; Gaz vol. 166; p. 115.
Gilbert, Henry J., Saginaw, Mich. Bushing. No. 995,531; June 20; Sp. p. 3131; Gaz. vol. 167; p. 556.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 999,446; Aug. 1; Sp. p. 501; Gaz. vol. 169; p. 88.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 1,010,613; Dec. 5; Sp. p. 476; Gaz. vol. 173; p. 74.
Gilbert, Henry J., Saginaw, Mich. Pulley. No. 1,010,614; Dec. 5; Sp. p. 479; Gaz. vol. 173; p. 75.
Gilbert, Louis, New York, N. Y. Means for ventilating beds. No. 1,007,028; Oct. 24; Sp. p. 5434; Gaz. vol. 171; p. 952.
Gilbert Manufacturing Co., The. (See Bowers, Fredson E., assignor.)
Gilbert, Thomas, Oakland, Cal. Gold-saving apparatus. No. 1,006,649; Oct. 24; Sp. p. 4614; Gaz. vol. 171; p. 823.
Gilbert, Walker V., London, England. Resilient compound lever. No. 985,755; Feb. 28; Sp. p. 5438; Gaz. vol. 163; p. 954.
Gilbert, Walter, St. Louis, Mo. Display-stand. No. 993,240; May 23; Sp. p. 5162; Gaz. vol. 166; p. 928.
Gilbert, William N., Binghamton, N. Y. Weighing-scale. No. 983,990; Feb. 14; Sp. p. 1616; Gaz. vol. 163; p. 280.
Gilbreth, Frank B., Boston, Mass. Sectional gravity concrete-mixer. No. 1,004,411; Sept. 26; Sp. p. 4882; Gaz. vol. 170; p. 861.
Gilchrist, Joseph A., Cleveland, Ohio. Toy blow-gun. No. 1,009,063; Nov. 21; Sp. p. 3207; Gaz. vol. 172; p. 568.
Gilchrist, Leslie E., Delta, assignor of one-half to M. Kimble, Rose Hill, Iowa. Punch. No. 990,543; Apr. 25; Sp. p. 4902; Gaz. vol. 165; p. 855.
Gilchrist, Raymond B., Newark, N. J. Squeezer. No. 980,628; Jan. 3; Sp. p. 963; Gaz. vol. 162; p. 157.
Gilchrist, Thomas M., White Bird, Idaho. Ore-concentrator. No. 1,004,412; Sept. 26; Sp. p. 4887; Gaz. vol. 170; p. 862.
Gilda, John R., assignor to F. C. Hammond, St. Louis, Mo. Churn. No. 989,776; Apr. 18; Sp. p. 3181; Gaz. vol. 165; p. 558.
Gilda, John R., assignor to F. C. Hammond, St. Louis, Mo. Churn. No. 993,675; May 30; Sp. p. 6133; Gaz. vol. 166; p. 1109.
Gildea, Peter J., San Francisco, Cal. Deep-well pump. No. 995,248; June 13; Sp. p. 2483; Gaz. vol. 167; p. 430.
Gile, William L., Greenville, Mich. Gas-engine controller. No. 1,001,015; Aug. 22; Sp. p. 3935; Gaz. vol. 169; p. 724.
Giles, Albert T., Calgary, Alberta, Canada. Attachment to grain-binders for stooking sheaves of grain. No. 991,294; May 2; Sp. p. 1001; Gaz. vol. 166; p. 169.
Giles, Albert T., Calgary, Alberta, Canada. Rapid-firing toy gun. No. 1,010,615; Dec. 5; Sp. p. 482; Gaz. vol. 173; p. 75.
Giles, Julian A., Derby, Conn. Internal-combustion engine. No. 990,974; May 2; Sp. p. 309; Gaz. vol. 166; p. 54.
Giles, Julian A., Derby, Conn. Cross-head. No. 994,149; June 6; Sp. p. 92; Gaz. vol. 167; p. 18.
Giles, R. Porter, *et al.* (See Chown, James V., assignor.)
Giletti, Secondo, San Francisco, Cal. Reinforced concrete construction. No. 991,971; May 9; Sp. p. 2425; Gaz. vol. 166; p. 432.
Gilfillan, Essington N., *et al.* (See Schinscholl, Erich, assignor.)
Gilfus, Fred A., Auburn, N. Y. Testing device for air-brake systems. No. 982,714; Jan. 24; Sp. p. 5557; Gaz. vol. 162; p. 957.
Gilg, Ernst. (See Gilg, Karl and E.)
Gilg, Karl, Gross-Lichterfelde, near Berlin, and E. Gilg, Steglitz, near Berlin, Germany. Manufacture of beverages containing carbon dioxid. No. 1,000,596; Aug. 15; Sp. p. 2980; Gaz. vol. 169; p. 545.

Alphabetical list of patentees—Continued.

Gilger, Morris, Green Bay, Wis. Hoop-retainer. No. 1,012,839; Dec. 26; Sp. p. 5432; Gaz. vol. 173; p. 963.
Gill, Charles H., Chicago, Ill., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Line-stop mechanism for type-writers. No. 996,638; July 4; Sp. p. 93; Gaz. vol. 168; p. 17.
Gill, Edwin R., Yonkers, N. Y. Reaction-engine. No. 999,776; Aug. 8; Sp. p. 1150; Gaz. vol. 169; p. 228.
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Self-answering signal system. (Reissue.) No. 13,248; May 30; Sp. p. 7011; Gaz. vol. 166; p. 1258.
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Selective signaling system. No. 1,003,250; Sept. 12; Sp. p. 2348; Gaz. vol. 170; p. 403
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Selective signaling device. No. 1,004,566; Oct. 3; Sp. p. 38; Gaz. vol. 171; p. 8.
Gill, Edwin R., Yonkers, assignor, by mesne assignments, to H. E. Merrell, New York, N. Y., and O. J. Hamlin, Smethport, Pa. Selective signaling system. No. 1,004,567; Oct. 3; Sp. p. 42; Gaz. vol. 171; p. 9.
Gill, Fleet, and D. O. Graham, Comanche, Tex. Baling-press. No. 981,994; Jan. 17; Sp. p. 4084; Gaz. vol. 162; p. 681.
Gill, George W. (See Alther, Henry J., assignor.)
Gill, James F., Bootle, near Liverpool, England. Engine-indicator. No. 991,843; May 9; Sp. p. 2173; Gaz. vol. 166; p. 387.
Gill, John, Pendleton, England. Manufacture of ferric oxid. No. 1,008,321; Nov. 14; Sp. p. 1508; Gaz. vol. 172; p. 276.
Gill, John, Wakefield, England. Rotary engine. No. 1,009,405; Nov. 21; Sp. p. 3994; Gaz. vol. 172; p. 690.
Gill, Seth E., Brooklyn, N. Y. Bottle-mold. No. 1,000,256; Aug. 8; Sp. p. 2202; Gaz. vol. 169; p. 392.
Gill, Stonewall J., Roanoke, Va. Automobile-starter. No. 1,007,094; Oct. 31; Sp. p. 5595; Gaz. vol. 171; p. 1029.
Gill, Thomas, Philadelphia, Pa. Incubator. No. 1,001,751; Aug. 29; Sp. p. 5453; Gaz. vol. 169; p. 1004.
Gill, William E. (See Shanahan and Gill.)
Gille, Charles N., assignor to Gravity Pasteurizer Company, Omaha, Nebr. Milk-pasteurizer. No. 995,129; June 13; Sp. p. 2248; Gaz. vol. 167; p. 391.
Gille, Charles N., assignor to Gravity Pasteurizer Company, Omaha, Nebr. Milk-pasteurizer. No. 995,130; June 13; Sp. p. 2251; Gaz. vol. 167; p. 392.
Gilleland, Grover W., Steamboat Springs, Colo. Steam-turbine. No. 1,001,134; Aug. 22; Sp. p. 4188; Gaz. vol. 169; p. 766.
Gilleland, Marion A. (See Adler, Samuel L., assignor.)
Gillenwater, Robert T., Rogersville, Tenn. Currycomb. No. 1,008,322; Nov. 14; Sp. p. 1510; Gaz. vol. 172; p. 276.
Gillespie, Alfred J., Atlantic, Iowa, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Lock-out for voting-machines. No. 995,342; June 13; Sp. p. 2694; Gaz. vol. 167; p. 462.
Gillespie, Alfred J., Jamestown, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 995,424; June 13; Sp. p. 2889; Gaz. vol. 167; p. 490.
Gillespie, Charles B., Grand Forks, N. D. Means for excluding flies from buildings. No. 1,005,534; Oct. 10; Sp. p. 2090; Gaz. vol. 171; p. 368.
Gillespie, Charles B., Grand Forks, N. D. Means for excluding flies from buildings. No. 1,005,535; Oct. 10; Sp. p. 2094; Gaz. vol. 171; p. 369.
Gillespie, Edward P., Emsworth, Pa. Nut-lock. No. 983,704; Feb. 7; Sp. p. 966; Gaz. vol. 163; p. 153.
Gillespie, Samuel G., Wake Forrest, W. Va. Anchoring tent-pin. No. 1,008,323; Nov. 14; Sp. p. 1511; Gaz. vol. 172; p. 277.
Gillett, Arthur, and A. Harrity, Kansas City, Mo. Car-door. No. 1,005,825; Oct. 17; Sp. p. 2747; Gaz. vol. 171; p. 501.
Gillette, Edward R., New York, N. Y. Fishing appliance. No. 1,001,195; Aug. 22; Sp. p. 4299; Gaz. vol. 169; p. 784.
Gillette, George H., New York, N. Y. Rubber tire. No. 1,004,642; Oct. 3; Sp. p. 198; Gaz. vol. 171; p. 35.
Gillette, Herbert B., Grand Rapids, Mich. Roller-bearing. No. 986,453; Mar. 14; Sp. p. 1475; Gaz. vol. 164; p. 266.
Gillette, Herbert B., Grand Rapids, Mich. Roller-bearing. No. 986,454; Mar. 14; Sp. p. 1480; Gaz. vol. 164; p. 267.
Gillette, Hiram B. (See Wattenburger, Jacob H., assignor.)
Gillette, King C., Brookline, Mass. Safety-razor. No. 991,147; May 2; Sp. p. 678; Gaz. vol. 166; p. 115.
Gillette, Leverne. (See Michaels and Gillette.)
Gillette, Louis F., Concord, N. H. Therapeutic bottle. No. 991,844; May 9; Sp. p. 2175; Gaz. vol. 166; p. 388.
Gillette Safety Razor Company. (See Nicholls, Walter H., assignor.)
Gillette Safety Razor Company. (See Nickerson, William E., assignor.)
Gilley, T. F. (See Langham, William W., assignor.)
Gillham, John, Jr., assignor to J. Nichols, Kansas City, Mo. Stamp moistening and affixing machine. No. 1,004,413; Sept. 26; Sp. p. 4889; Gaz. vol. 170; p. 862.
Gilliam, John W., Arroyo Grande, Cal. Vehicle-tire. No. 994,309; June 6; Sp. p. 420; Gaz. vol. 167; p. 72.
Gilliland, Lee O., assignor of one-half to R. Reichardt, Chicago, Ill. Engine. No. 999,777; Aug. 8; Sp. p. 1152; Gaz. vol. 169; p. 228.
Gillinder, Edgar A., Tacony, Pa. Manufacturing glassware. No. 986,380; Mar. 7; Sp. p. 1314; Gaz. vol. 164; p. 212.
Gillinder, Edgar A., Philadelphia, Pa., assignor to General Gas Light Company, Kalamazoo, Mich. Gas-lamp. No. 1,007,860; Nov. 7; Sp. p. 498; Gaz. vol. 172; p. 74.
Gillispie, Robert L., New York, N. Y. Baker's-oven attachment. No. 1,002,671; Sept. 5; Sp. p. 1079; Gaz. vol. 170; p. 163.
Gillmor, Horatio G., Bath, Me. Bolt and nut fastening. No. 993,676; May 30; Sp. p. 6135; Gaz. vol. 166; p. 1110.
Gillmor, Horatio G., Quincy, Mass., assignor to New Jersey Development Company, New York, N. Y. Automobile torpedo. No. 980,243; Jan. 3; Sp. p. 123; Gaz. vol. 162; p. 24.
Gillons, John A., *et al.* (See Silva, Claude L., assignor.)
Gilman, Charles W., and A. L. Welch, Worcester, Mass. Attachment for power-operated hammers. No. 1,008,026; Nov. 7; Sp. p. 821; Gaz. vol. 172; p. 130.
Gilman, Frank, and G. F. Clements, Smethwick, assignors to Boiler Scalers Limited, Birmingham, England. Percussive tool for scaling tubes. No. 1,008,812; Nov. 14; Sp. p. 2668; Gaz. vol. 172; p. 448.
Gilman, George E., West Newbury, Mass. Curtain-fixture. No. 984,135; Feb. 14; Sp. p. 1911; Gaz. vol. 163; p. 328.
Gilman, George H., assignor to Sullivan Machinery Company, Claremont, N. H. Throttling device for pneumatic tools or the like. No. 984,424; Feb. 14; Sp. p. 2518; Gaz. vol. 163; p. 426.
Gilman, George H., assignor to Sullivan Machinery Company, Claremont, N. H. Pneumatic tool. No. 995,593; June 20; Sp. p. 3280; Gaz. vol. 167; p. 578.
Gilman, George H., assignor to Sullivan Machinery Company, Claremont, N. H. Pressure-fed tool. No. 1,000,905; Aug. 15; Sp. p. 3629; Gaz. vol. 169; p. 652.
Gilman, James R., assignor to C. L. Redding, Louisville, Ky. Trolley-wheel. No. 992,713; May 16; Sp. p. 4021; Gaz. vol. 166; p. 718.
Gilman, John H., assignor to King & Hamilton Company, Ottawa, Ill. Wagon-dump. No. 989,961; Apr. 18; Sp. p. 3584; Gaz. vol. 165; p. 621.
Gilman, Joseph M., Litchfield, Me. Wrench. No. 982,589; Jan. 24; Sp. p. 5312; Gaz. vol. 162; p. 915.
Gilman, Willard H. (See Gleeson and Gilman.)
Gilmartin, Michael W., New York, N. Y. Projectile. No. 996,403; June 27; Sp. p. 5097; Gaz. vol. 167; p. 893.
Gilmer, Ernest E., White Salmon, Wash. Sidewalk and vault light. No. 991,465; May 2; Sp. p. 1362; Gaz. vol. 166; p. 226.
Gilmer, John T., Mobile, Ala. Treating trees for extracting sap. No. 1,012,541; Dec. 19; Sp. p. 4743; Gaz. vol. 173; p. 815.
Gilmer, Ludwell H., Philadelphia, Pa. Belt. No. 994,150; June 6; Sp. p. 93; Gaz. vol. 167; p. 18.
Gilmore, Charles B., assignor of one-half to L. C. Walter, Bloomington, Ill. Pneumatic cleaner. No. 1,009,499; Nov. 21; Sp. p. 4195; Gaz. vol. 172; p. 722.
Gilmore, Charles T., Chicago, Ill. Shirt-ironing machine. No. 985,026; Feb. 21; Sp. p. 3786; Gaz. vol. 163; p. 669.
Gilmore, Charles T., Chicago, Ill. Ironing-machine. No. 1,001,384; Aug. 22; Sp. p. 4706; Gaz. vol. 169; p. 849.
Gilmore, Howard, Brookline, Mass. Filament-support. No. 1,001,135; Aug. 22; Sp. p. 4189; Gaz. vol. 169; p. 766.
Gilmore, Howard J., assignor of one-fourth to M. Leon, Carterville, Mo. Coal-loading apparatus. No. 1,002,984; Sept. 12; Sp. p. 1789; Gaz. vol. 170; p. 310.
Gilmore, John M., Chicago, Ill. Device for the manufacture of dental crowns. No. 999,366; Aug. 1; Sp. p. 345; Gaz. vol. 169; p. 61.
Gilmore, Millard, assignor to Variety Manufacturing Company, Chicago, Ill. Fire-escape. No. 1,001,264; Aug. 22; Sp. p. 4432; Gaz. vol. 169; p. 806.
Gilmore, Oscar A., St. Paul, Minn. Potato-harvesting machine. No. 988,871; Apr. 4; Sp. p. 1222; Gaz. vol. 165; p. 195.
Gilmour, William R. (See McCallum, Colin, assignor.)
Gilowitz, Benjamin, Greenport, N. Y. Attachment for shoes. No. 997,055; July 4; Sp. p. 984; Gaz. vol. 168; p. 157.
Gilpin, Albert D., Lincoln, Kans. Differential mechanism. No. 997,617; July 11; Sp. p. 2115; Gaz. vol. 168; p. 377.
Gilpin, Alonzo M. (See Henderson and Gilpin.)
Gilpin, Victor C., assignor to Eastern Flexible Conduit Company, Brooklyn, N. Y. Apparatus for testing tubes to discover obstructions therein. No. 1,001,196; Aug. 22; Sp. p. 4301; Gaz. vol. 169; p. 785.
Gilpin, William C. (See Henderson and Gilpin.)
Gilroy, Frank J., Buffalo, N. Y. Locking device for car-doors. No. 991,610; May 9; Sp. p. 1689; Gaz. vol. 166; p. 310.

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Gilroy, James J., Lost Creek, Pa. Sash-balancing device. No. 1,002,145; Aug. 29; Sp. p. 6267; Gaz. vol. 169; p. 1133.
Gilroy, John J., Pittston, Pa. Axle-box and wheel oiler. No. 982,715; Jan. 24; Sp. p. 5561; Gaz. vol. 162; p. 957.
Gilson, Anna K., Quechee, Vt. Rain and wind shield for automobiles. No. 1,011,940; Dec. 19; Sp. p. 3471; Gaz. vol. 173; p. 608.
Gilson, Emery G., Schenectady, N. Y., assignor to General Electric Company. Molded conductor. No. 1,008,535; Nov. 14; Sp. p. 2055; Gaz. vol. 172; p. 351.
Gilson, Henry R., Fair Oaks, assignor to National Metal Molding Company, Pittsburgh, Pa. Mechanism for making armored cable and similar products. No. 1,004,643; Oct. 3; Sp. p. 199; Gaz. vol. 171; p. 35.
Gilson, Henry R., Fair Oaks, assignor to National Metal Molding Company, Pittsburgh, Pa. Armoring cable. No. 1,004,644; Oct. 3; Sp. p. 203; Gaz. vol. 171; p. 35.
Gilson, Henry R., Beaver, assignor of one-half to F. C. Schroeder, Ambridge, Pa. Flushing-valve. No. 1,005,641; Oct. 10; Sp. p. 2361; Gaz. vol. 171; p. 405.
Gilson, John E., assignor to Gilson Manufacturing Company, Port Washington, Wis. Fan attachment. No. 984,208; Feb. 14; Sp. p. 2089; Gaz. vol. 163; p. 354.
Gilson, John E., assignor to Gilson Manufacturing Company, Port Washington, Wis. Friction-clutch. No. 984,209; Feb. 14; Sp. p. 2090; Gaz. vol. 163; p. 354.
Gilson Manufacturing Company. (See Gilson, John E., assignor.)
Gilson, Samuel H., assignor of one-half to J. S. Milner, Salt Lake City, Utah. Vehicle-tire. No. 1,004,867; Oct. 3; Sp. p. 695; Gaz. vol. 171; p. 113.
Gilstrap, Edward N. (See Sorensen and Gilstrap.)
Gimson & Company (Leicester) Limited. (See Ferrabee, James H., Jr., assignor.)
Gimson & Company (Leicester) Limited. (See Partridge, Charles H., assignor.)
Ginivin, John P., assignor of one-third to J. G. Smith and one-third to J. S. T. Jackson, Seattle, Wash. Ore-classifier. No. 980,244; Jan. 3; Sp. p. 128; Gaz. vol. 162; p. 25.
Ginsburg, David, Montreal, Quebec, Canada. Garment-pocket. No. 987,564; Mar. 21; Sp. p. 3776; Gaz. vol. 164; p. 675.
Giolitti, Federico, Rome, assignor to Societa Anonima Italiana Gio. Ansaldo Armstrong & C., Genoa, Italy. Manufacture of cemented armor-plates and other articles of steel or alloys of steel. No. 991,972; May 9; Sp. p. 2426; Gaz. vol. 166; p. 432.
Giordano, Felice, Genoa, Italy. Manufacturing tobacco-paper from pure tobacco-stems and product resulting therefrom. No. 999,986; Aug. 8; Sp. p. 1586; Gaz. vol. 169; p. 299.
Giordano, Samuel S., Rockford, Ill. Moving-picture machine. No. 986,163; Mar. 7; Sp. p. 848; Gaz. vol. 164; p. 137.
Giorgi, Amedeo, Florence, Italy. Inverted incandescent gas-lamp. No. 985,580; Feb. 28; Sp. p. 5060; Gaz. vol. 163; p. 894.
Giorgi, Amedeo, Florence, Italy. Means for controlling the supply of gas to gas-burners and for igniting the same. No. 994,670; June 6; Sp. p. 1204; Gaz. vol. 167; p. 196.
Gipe, Emanuel C., Toronto, Ontario, Canada. Store-service apparatus. No. 1,008,636; Nov. 14; Sp. p. 2299; Gaz. vol. 172; p. 388.
Gipson, Alvin L., Portland, Oreg. Square. No. 991,714; May 9; Sp. p. 1925; Gaz. vol. 166; p. 346.
Girard, Albert, Chester, Pa. Picker-strap. No. 990,975; May 2; Sp. p. 312; Gaz. vol. 166; p. 54.
Girard, Albert, Chester, Pa. Lug-strap. No. 998,244; July 18; Sp. p. 3570; Gaz. vol. 168; p. 640.
Girard, Alfred O., Milwaukee, Wis., assignor to American Hydraulic Air-Compressor Company. Hydraulic air-compressor. No. 1,007,095; Oct. 31; Sp. p. 5597; Gaz. vol. 171; p. 1029.
Girard, Louis B., assignor to The Girard Manufacturing Company, Los Angeles, Cal. Machine for fastening and winding shades on rollers. No. 989,345; Apr. 11; Sp. p. 2233; Gaz. vol. 165; p. 379.
Girard Manufacturing Company, The. (See Girard, Louis B., assignor.)
Girardi, Antonio. (See Braf, Girardi, and Occhinto.)
Girdler, Samuel B., Indianapolis, Ind. Decorated attachment for harness and other articles. No. 1,002,384; Sept. 5; Sp. p. 472; Gaz. vol. 170; p. 67.
Girin, Joseph M. I., Lyon, France. Change-speed gear. No. 982,666; Jan. 24; Sp. p. 5460; Gaz. vol. 162; p. 942.
Girlot, Joseph, Laeken, Belgium. Mechanical forging of wheels of iron or steel. No. 983,042; Jan. 31; Sp. p. 6308; Gaz. vol. 162; p. 1097.
Girod, Edgar F., Delhi, assignor of one-half to P. W. Girod, Monroe, La. Rotary engine. No. 1,005,957; Oct. 17; Sp. p. 3056; Gaz. vol. 171; p. 549.
Girod, Paul, Ugine, France. Supplying electric furnaces with polyphase currents. No. 983,043; Jan. 31; Sp. p. 6309; Gaz. vol. 162; p. 1097.
Girod, Perry W. (See Girod, Edgar F., assignor.)
Giroud, Felipe, New York, N. Y. Wrapping-machine. No. 1,006,081; Oct. 17; Sp. p. 3304; Gaz. vol. 171; p. 590.
Giroud, Felipe, New York, N. Y. Machine for making paper boxes. No. 1,009,236; Nov. 21; Sp. p. 3600; Gaz. vol. 172; p. 628.
Girrens, Nicholas, Buffalo, N. Y. Safety door apparatus. No. 986,816; Mar. 14; Sp. p. 2253; Gaz. vol. 164; p. 390.
Girtanner, Alexander, St. Louis, Mo. Controller for gas-burners. No. 982,808; Jan. 31; Sp. p. 5777; Gaz. vol. 162; p. 1017.
Girtanner, Frederick, assignor to Laclede-Christy Clay Products Company, St. Louis, Mo. Furnace-arch. No. 986,455; Mar. 14; Sp. p. 1482; Gaz. vol. 164; p. 267.
Girtanner, Frederick, assignor to Laclede-Christy Clay Products Company, St. Louis, Mo. Chain-grate. No. 1,001,385; Aug. 22; Sp. p. 4708; Gaz. vol. 169; p. 849.
Gisholt Machine Company. (See Miller, William L., assignor.)
Givens, Benjamin W., Cambridge, Mass. Guide-rail lubricator. No. 996,077; June 27; Sp. p. 4312; Gaz. vol. 167; p. 782.
Givens, James B., Duncannon, Pa. Washing-machine. No. 1,005,112; Oct. 3; Sp. p. 1154; Gaz. vol. 171; p. 195.
Glabaznya, Rudolph. (See Rosenberg and Glabaznya.)
Gladfelter, Elwood C., Lima, Ohio. Breast-drill attachment. No. 1,006,932; Oct. 24; Sp. p. 5240; Gaz. vol. 171; p. 921.
Gladfelter, Frank P. (See Saylor, Hedrick, and Gladfelter.)
Gladish, Frank L. (See Compton, James T., assignor.)
Gladstone, James W., assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Oxid plate for primary batteries. No. 988,934; Apr. 4; Sp. p. 1345; Gaz. vol. 165; p. 216.
Glafke, Charles E. (See Nero, Elizabeth L., assignor.)
Glafke, Charles E., San Francisco, Cal. Hydrocarbon-burner. No. 1,005,958; Oct. 17; Sp. p. 3059; Gaz. vol. 171; p. 550.
Glahn, Francis H., South Omaha, Nebr. Starting mechanism for gas-engines. No. 982,133; Jan. 17; Sp. p. 4354; Gaz. vol. 162; p. 727.
Glamzo, Paul, New York, assignor of one-half to A. Razutovitch, Brooklyn, and one-fourth to B. S. Yankaus, New York, N. Y. Rotary engine. No. 980,771; Jan. 3; Sp. p. 1268; Gaz. vol. 162; p. 204.
Glancey, Patrick J., Scranton, Pa. Combined mop and scrubbing-brush holder. No. 981,756; Jan. 17; Sp. p. 3523; Gaz. vol. 162; p. 596.
Glandon, Alexander H., Wabedo, Minn. Car-door. No. 994,097; May 30; Sp. p. 6981; Gaz. vol. 166; p. 1252.
Glanz, Joseph, Hartford, Conn. Plug-inserting device. No. 1,000,168; Aug. 8; Sp. p. 2018; Gaz. vol. 169; p. 361.
Glanz, Peter J. (See Zabel and Glanz.)
Glardon, Edouard C., Hamburg, Germany. Joint-binder. No. 1,004,773; Oct. 3; Sp. p. 488; Gaz. vol. 171; p. 80.
Glaser, Charles, and G. J. Muller, Baltimore, Md. Refining salt and recovering its impurities as by-products. (Reissue.) No. 13,268; July 11; Sp. p. 2888; Gaz. vol. 168; p. 493.
Glaser, Edward, Cincinnati, Ohio. Scraper for ice-cream freezers. No. 1,008,710; Nov. 14; Sp. p. 2445; Gaz. vol. 172; p. 413.
Glaser, Emil G., North Dover, Ohio. Spring-wheel. No. 1,003,596; Sept. 19; Sp. p. 3080; Gaz. vol. 170; p. 555.
Glaser, George L., New York, N. Y. Spraying-nozzle. No. 996,480; June 27; Sp. p. 5249; Gaz. vol. 167; p. 920.
Glaser, Ludwig, Pankow, Germany, assignor to General Electric Company. Apparatus for producing ozone. No. 982,227; Jan. 17; Sp. p. 4534; Gaz. vol. 162; p. 760.
Glaser, Ludwig, Pankow, Germany, assignor to General Electric Company. Connecting incandescent-lamp filaments with metallic current-supply wires. No. 988,329; Apr. 4; Sp. p. 83; Gaz. vol. 165; p. 15.
Glaser, Ludwig, Berlin, Germany, assignor to General Electric Company. Supporting-frame for incandescent lamps with metal filaments. No. 1,011,771; Dec. 12; Sp. p. 3075; Gaz. vol. 173; p. 515.
Glasgow, Frank A., St. Louis, Mo. Ignition device. No. 989,905; Apr. 18; Sp. p. 3453; Gaz. vol. 165; p. 602.
Glasgow, William, Ontario, Cal. Pipe-coupling. No. 1,012,073; Dec. 19; Sp. p. 3780; Gaz. vol. 173; p. 655.
Glass, George A., Newark, N. J. Broiler-support. No. 1,006,746; Oct. 24; Sp. p. 4805; Gaz. vol. 171; p. 855.
Glass, Harry, Blue River, Wis. Bottle-closure. No. 1,009,237; Nov. 21; Sp. p. 3605; Gaz. vol. 172; p. 629.
Glass, James A., Durham, Ontario, Canada. Ventilating device. No. 981,635; Jan. 17; Sp. p. 3279; Gaz. vol. 162; p. 556.
Glass, Max, Dortmund, Germany. Combined mangle and kitchen-table. No. 1,001,136; Aug. 22; Sp. p. 4191; Gaz. vol. 169; p. 767.
Glass, Max, Vienna, Austria-Hungary. Briqueting metals containing copper. No. 1,008,254; Nov. 7; Sp. p. 1305; Gaz. vol. 172; p. 213.
Glass, Perley R., Quincy, assignor to The Peerless Machinery Company, Boston, Mass. Skiving-machine. No. 1,012,350; Dec. 19; Sp. p. 4381; Gaz. vol. 173; p. 750.
Glassbrook, Ernest. (See Buller, Glassbrook, and Hanchett.)

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Glasscock, Winfield S., Neodesha, Kans. Sidewalk-tool. No. 988,457; Apr. 4; Sp. p. 354; Gaz. vol. 165; p. 57.
Glathart, Rolland L., Mannington, W. Va. Hinge-holder. No. 1,009,500; Nov. 21; Sp. p. 4200; Gaz. vol. 172; p. 723.
Glauber, Joseph H., Cleveland, Ohio. Coupling-pipe. No. 980,939; Jan. 10; Sp. p. 1686; Gaz. vol. 162; p. 291.
Glauber, Joseph H., Cleveland, Ohio. Bib and cock. No. 1,007,553; Oct. 31; Sp. p. 6606; Gaz. vol. 171; p. 1191.
Glauber, Joseph H., Cleveland, Ohio. Faucet or cock. No. 1,007,554; Oct. 31; Sp. p. 6609; Gaz. vol. 171; p. 1192.
Glavin, John F., and P. K. Morrissey, Rensselaer, N. Y. Concrete-mold. No. 992,652; May 16; Sp. p. 3908; Gaz. vol. 166; p. 697.
Glaze, Felix C., Jeffersonville, Ohio. Railway-rail joint. No. 1,008,637; Nov. 14; Sp. p. 2301; Gaz. vol. 172; p. 389.
Glazier, John H., Kansas City, Mo. Making stock food from cactus. No. 987,062; Mar. 14; Sp. p. 2729; Gaz. vol. 164; p. 472.
Gleason, Frederick J., assignor to Walpole Rubber Company, Walpole, Mass. Adhesive fabric. No. 997,125; July 4; Sp. p. 1108; Gaz. vol. 168; p. 180.
Gleason, James, Green Bay, Wis. Deep-well pump. No. 994,310; June 6; Sp. p. 421; Gaz. vol. 167; p. 73.
Gleason, James E., Lockport, Ill. Pneumatic pipe-coupling. No. 995,861; June 20; Sp. p. 3875; Gaz. vol. 167; p. 673.
Gleason, Lafayette B. (See Alperin, Bernard A., assignor.)
Gleeson, Thomas W., Boston, and W. H. Gilman, Medford, Mass., assignors to International Telemeter Company. Telephone system. No. 1,005,194; Oct. 10; Sp. p. 1327; Gaz. vol. 171; p. 246.
Gleeson, William H., San Francisco, Cal. Hose clamp and holder. No. 1,008,027; Nov. 7; Sp. p. 823; Gaz. vol. 172; p. 131.
Glen, Howard, Chicago, Ill. Starting device for explosive-engines. No. 1,001,016; Aug. 22; Sp. p. 3936; Gaz. vol. 169; p. 724.
Glennan, Edward, New York, N. Y. Ferrule. No. 986,164; Mar. 7; Sp. p. 849; Gaz. vol. 164; p. 137.
Glenzing, John Z., Philadelphia, Pa., assignor to The Smith Premier Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 983,358; Feb. 7; Sp. p. 215; Gaz. vol. 163; p. 38.
Glick, George E., Carrington, N. D. Automatic fire-alarm. No. 1,010,251; Nov. 28; Sp. p. 5705; Gaz. vol. 172; p. 1020.
Glick, Nicklos, Sylvan Grove, Kans. Stove. No. 1,001,017; Aug. 22; Sp. p. 3938; Gaz. vol. 169; p. 724.
Glickert, Charles A., Indianapolis, Ind. Gage. No. 997,989; July 18; Sp. p. 3002; Gaz. vol. 168; p. 549.
Glidden, John E., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel. No. 1,007,687; Nov. 7; Sp. p. 66; Gaz. vol. 172; p. 12.
Glidden, Joseph F., Cleveland, Ohio. Ornamenting surfaces. No. 1,001,585; Aug. 22; Sp. p. 5077; Gaz. vol. 169; p. 914.
Glidden, Wilmot W. (See Foster and Glidden.)
Glimm, Stephen F., New York, N. Y. Safety device for elevators. No. 1,008,255; Nov. 7; Sp. p. 1306; Gaz. vol. 172; p. 214.
Glines, Edward C. (See Savoie, Joseph, assignor.)
Glise, Roy C., Prosper, Minn. Loading apparatus. No. 1,002,385; Sept. 5; Sp. p. 474; Gaz. vol. 170; p. 67.
Globe Chemical Works. (See Sanborn, Hamilton, assignor.)
Globe Chemical Works. (See Young, Stewart W., assignor.)
Globe Ear-Phone Company. (See Barber and Durbin, assignors.)
Globe Machine & Stopper Company. (See Eils and Strebel, assignors.)
Globe Machine & Stopper Company. (See Strebel, Louis, assignor.)
Globe Wave Power and Electric Company, The. (See Reynolds, Alva L., assignor.)
Globe-Wernicke Company, The. (See Senge, Liborius, assignor.)
Glock, Anton, San Francisco, Cal. Lock for fire-alarm boxes. No. 998,493; July 18; Sp. p. 4110; Gaz. vol. 168; p. 728.
Glock, Anton, San Francisco, Cal. Guard for fire-alarm-box-door keys. No. 998,494; July 18; Sp. p. 4111; Gaz. vol. 168; p. 729.
Glocker, Gustave, Washington, D. C. Jar and closure therefor. No. 984,808; Feb. 21; Sp. p. 3379; Gaz. vol. 163; p. 596.
Gloeckler, August, Chicago, Ill. Fluid-pressure regulator. No. 1,000,729; Aug. 15; Sp. p. 3263; Gaz. vol. 169; p. 590.
Gloekler, Charles A., Pittsburgh, Pa. Counter-guard. No. 1,008,813; Nov. 14; Sp. p. 2670; Gaz. vol. 172; p. 448.
Glover, Charles, New Britain, Conn. Blank for self-threading shuttle-eyes. No. 983,435; Feb. 7; Sp. p. 373; Gaz. vol. 163; p. 62.
Glover, Charles, New Britain, and H. K. Jones, Hartford, Conn. Heading and slotting machine. No. 990,544; Apr. 25; Sp. p. 4903; Gaz. vol. 165; p. 855.
Glover, Harry M. R., Rochester, N. Y. Adapter for film-packs. No. 987,620; Mar. 21; Sp. p. 3896; Gaz. vol. 164; p. 694.
Glover, Joseph A. F., Wandsworth, England. Gas and like cooking-oven. No. 993,241; May 23; Sp. p. 5163; Gaz. vol. 166; p. 928.
Glover, Milford S., Bighill, Tex. Draft-equalizer. No. 986,278; Mar. 7; Sp. p. 1087; Gaz. vol. 164; p. 174.
Glover, Samuel, and J. West, Southport, England. Coke-discharging apparatus for vertical retorts. No. 991,499; May 9; Sp. p. 1433; Gaz. vol. 166; p. 270.
Glover, Samuel, St. Helens, and J. West, Southport, England. Means for heating vertical retorts. No. 1,011,424; Dec. 12; Sp. p. 2296; Gaz. vol. 173; p. 392.
Glover, Samuel, St. Helens, and J. West, Southport, England. Driving-gear of apparatus for discharging coke from continuously-operated vertical retorts. No. 1,011,425; Dec. 12; Sp. p. 2297; Gaz. vol. 173; p. 393.
Glover, Thomas, Edmonton, England. Gas-meter. No. 988,186; Mar. 28; Sp. p. 5163; Gaz. vol. 164; p. 915.
Glover, Thomas, London, England. Capacity-testing apparatus for gas-meters. No. 1,002,672; Sept. 5; Sp. p. 1083; Gaz. vol. 170; p. 163.
Glover, Truman J., and J. B. Laber, Portland, Oreg. Hose-support. No. 994,455; June 6; Sp. p. 722; Gaz. vol. 167; p. 123.
Gluck, Isidor. (See Birnn, Robert, assignor.)
Glunt, Samuel P., Union City, Ind. Sliding door for storm-buggies. No. 990,252; Apr. 25; Sp. p. 4217; Gaz. vol. 165; p. 752.
Glutsch, William E. (See Nathan and Glutsch.)
Glynn, William J. (See Stauffer, Floyd F., assignor.)
Gmeindl, Alois. (See Gmeindl, Josef, Sr., J., Jr., J., and A.)
Gmeindl, Johann. (See Gmeindl, Josef, Sr., J., Jr., J., and A.)
Gmeindl, Josef, Jr. (See Gmeindl, Josef, Sr., J., Jr., J., and A.)
Gmeindl, Josef, Sr., J., Jr., J., and A., Ed, Post Schnaitsee, near Gars, Germany. Device for charging furnaces. No. 1,007,861; Nov. 7; Sp. p. 500; Gaz. vol. 172; p. 75.
Gminder, Emil, Reutlingen, Germany. Creel-frame for textile machinery. No. 1,010,746; Dec. 5; Sp. p. 779; Gaz. vol. 173; p. 122.
Gnadt, Adolph, St. Louis, Mo. Combined drying and conveying system. No. 1,008,256; Nov. 7; Sp. p. 1309; Gaz. vol. 172; p. 214.
Gnu Trustee Company. (See Peetz, McDanel, and Thompson, assignors.)
Goalard, Jean, Bayonne, France. Rotary engine. No. 1,000,257; Aug. 8; Sp. p. 2203; Gaz. vol. 169; p. 392.
Gobbe, Emile. (See Gobbe, Olivier A., assignor.)
Gobbe, Olivier A., assignor to E. Gobbe, Jumet, Belgium. Gas-producer. No. 1,009,064; Nov. 21; Sp. p. 3208; Gaz. vol. 172; p. 568.
Gobel, Boyd. (See Bost and Gobel.)
Gobell, Claud, assignor of one-half to C. J. Keppner, Quincy, Ill. Tally-keeper for hay-presses. No. 1,007,780; Nov. 7; Sp. p. 289; Gaz. vol. 172; p. 46.
Gober, Richard, Alameda, Cal. Receptacle-closure. No. 992,653; May 16; Sp. p. 3910; Gaz. vol. 166; p. 697.
Gober, Richard, Alameda, Cal. Vacuum-cleaner dust-arrester. No. 1,007,555; Oct. 31; Sp. p. 6611; Gaz. vol. 171; p. 1192.
Goblet, William, Rosebank, N. Y. Speed-indicator for boats. No. 1,007,280; Oct. 31; Sp. p. 6012; Gaz. vol. 171; p. 1097.
Gobrecht, Peter, Norwood, Ohio. Short rail for bedsteads. No. 1,008,711; Nov. 14; Sp. p. 2447; Gaz. vol. 172; p. 414.
Gockley, Noah B., Ephrata, Pa. Automobile headlight-adjuster. No. 983,991; Feb. 14; Sp. p. 1618; Gaz. vol. 163; p. 280.
Godard, Edouard C. M. (See Bailly, Vautier, and Godard.)
Goddard, Arthur L. (See Smith and Goddard.)
Goddard, Arthur S., assignor to Waterbury Mfg. Co., Waterbury, Conn. Canopy-support. No. 1,010,041; Nov. 28; Sp. p. 5301; Gaz. vol. 172; p. 950.
Goddard, Arthur S., assignor to Waterbury Mfg. Co., Waterbury, Conn. Canopy-ring for lighting-fixtures. No. 1,010,893; Dec. 5; Sp. p. 1098; Gaz. vol. 173; p. 172.
Goddard, Joseph, assignor to Seneca Camera Manufacturing Company, Rochester, N. Y. Light-trap. No. 985,581; Feb. 28; Sp. p. 5061; Gaz. vol. 163; p. 894.
Goddard, Joseph, assignor to Seneca Camera Manufacturing Company, Rochester, N. Y. Photographic-film-pack adapter. No. 988,872; Apr. 4; Sp. p. 1225; Gaz. vol. 165; p. 196.
Goddard, Joseph, assignor to Seneca Camera Manufacturing Company, Rochester, N. Y. Revolving-back camera. No. 1,001,386; Aug. 22; Sp. p. 4710; Gaz. vol. 169; p. 849.
Goddard, Joseph, assignor to Seneca Camera Manufacturing Co., Rochester, N. Y. Photographic camera. No. 1,001,387; Aug. 22; Sp. p. 4712; Gaz. vol. 169; p. 850.

Alphabetical list of patentees—Continued.

Goddard, Joseph, assignor to Seneca Camera Manufacturing Company, Rochester, N. Y. Photographic shutter. No. 1,009,501; Nov. 21; Sp. p. 4201; Gaz. vol. 172; p. 723.
Goddard, Joseph W., *et al.* (See Ionides, Alexander G., assignor.)
Goddard, Walter T., assignor to Locke Insulator Manufacturing Company, Victor, N. Y. Insulator-protector. No. 1,001,137; Aug. 22; Sp. p. 4192; Gaz. vol. 169; p. 767.
Goddard, William B., New York, N. Y. Bilge-barrel-forming machine. No. 1,001,634; Aug. 29; Sp. p. 5189; Gaz. vol. 169; p. 962.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 1,011,941; Dec. 19; Sp. p. 3472; Gaz. vol. 173; p. 608.
Goddu, Louis, Winchester, Mass., assignor to Goddu Sewing Machine Company, Portland, Me. Machine for beating out welts. No. 989,346; Apr. 11; Sp. p. 2238; Gaz. vol. 165; p. 379.
Goddu Sewing Machine Company. (See Goddu, Louis, assignor.)
Godfree, Ernest G., Hampton, near Melbourne, Victoria, Australia. Electromechanical selector. No. 997,990; July 18; Sp. p. 3004; Gaz. vol. 168; p. 549.
Godfrey, Arthur, Chicago Heights, Ill. Glass-working machine. No. 987,714; Mar. 28; Sp. p. 4135; Gaz. vol. 164; p. 757.
Godfrey, George L., Steuben, Me. Automatic weather-strip. No. 994,586; June 6; Sp. p. 1008; Gaz. vol. 167; p. 168.
Godfrey, Henry M., Jonesburg, Mo. Street-car fender. No. 1,004,774; Oct. 3; Sp. p. 490; Gaz. vol. 171; p. 81.
Godfrey, James L. (See Chambers, Albert N., assignor.)
Godfrey, Joseph H., Chicago, Ill., and L. J. Housel, Madison, Wis. Bottle-filling device. No. 1,011,184; Dec. 12; Sp. p. 1764; Gaz. vol. 173; p. 308.
Goding, Edwin L., Portland, Me. Adjustable table. No. 996,236; June 27; Sp. p. 4688; Gaz. vol. 167; p. 835.
Godit, Mark S., West Wareham, Mass. Triplet bucket ladder-dredge. No. 998,495; July 18; Sp. p. 4113; Gaz. vol. 168; p. 729.
Godleskie, Edward, assignor of one-fourth to J. E. Shipman, Sunbury, Pa. Faucet. No. 998,496; July 18; Sp. p. 4116; Gaz. vol. 168; p. 730.
Godley, Harry G., assignor of nine-tenths to J. M. Hansen, Pittsburgh, Pa. Wrench. No. 1,007,938; Nov. 7; Sp. p. 657; Gaz. vol. 172; p. 102.
Godlove, Charles E., and J. L. Van Nort, St. Louis, Mo.; said Van Nort assignor to said Godlove. Motor. No. 981,995; Jan. 17; Sp. p. 4086; Gaz. vol. 162; p. 681.
Godwin, Albert G., assignor of one-third to W. M. Tipton, West Terre Haute, Ind. Duplicate-train-order device. No. 1,000,906; Aug. 15; Sp. p. 3631; Gaz. vol. 169; p. 653.
Godwin, William J., Butler, Pa. Punch. No. 987,355; Mar. 21; Sp. p. 3372; Gaz. vol. 164; p. 605.
Goeddel, Gustave W., Homestead, Pa. Automatic flush-valve. No. 1,005,703; Oct. 10; Sp. p. 2494; Gaz. vol. 171; p. 428.
Goedeke, Frederick W., Evansville, Ind. Spring-lock for boxes and other receptacles. No. 1,002,259; Sept. 5; Sp. p. 164; Gaz. vol. 170; p. 20.
Goehler, Max, Vancouver, British Columbia, Canada. Manually-operated high-speed rotor. No. 981,757; Jan. 17; Sp. p. 3525; Gaz. vol. 162; p. 597.
Goehler, Max, Vancouver, British Columbia, Canada. Milk-separator. No. 981,758; Jan. 17; Sp. p. 3526; Gaz. vol. 162; p. 597.
Goehler, Max, Vancouver, British Columbia, Canada. Propelling-vane for flying-machines. No. 997,804; July 11; Sp. p. 2585; Gaz. vol. 168; p. 444.
Goehler, Max, Vancouver, British Columbia, Canada. Cement or concrete building-block construction. No. 998,086; July 18; Sp. p. 3229; Gaz. vol. 168; p. 584.
Goehst, John H., and J. A. Dunlap, assignors to Federal Electric Company, Chicago, Ill. Suction-producing device. No. 993,053; May 23; Sp. p. 4776; Gaz. vol. 166; p. 868.
Goerdes, Frederick W., assignor to American Button Company, Newark, N. J. Igniter. No. 1,004,868; Oct. 3; Sp. p. 697; Gaz. vol. 171; p. 113.
Goerk, Gustav, Newark, assignor to K. Oswald, Irvington, N. J. Bag-fastener. No. 1,004,014; Sept. 26; Sp. p. 4011; Gaz. vol. 170; p. 725.
Goeser, Edwin W. (See Hatch and Goeser.)
Goetz, Adam D., Charlestown, W. Va. Cart-saddle. No. 1,001,840; Aug. 29; Sp. p. 5644; Gaz. vol. 169; p. 1033.
Goetz, Fred W., and C. Flodin, Chicago, Ill. Straining-tank. No. 1,000,086; Aug. 8; Sp. p. 1847; Gaz. vol. 169; p. 334.
Goetz, George, assignor to Streeter-Amet Weighing & Recording Company, Chicago, Ill. Automatic weighing and recording car-scale. No. 1,001,635; Aug. 29; Sp. p. 5191; Gaz. vol. 169; p. 962.
Goetz, John B. (See Wolf and Goetz.)
Goetz, William L. (See Ketterer, Alvin N., assignor.)
Goff, Daniel, Millville, N. J. Induced draft and smoke-consumer. No. 1,008,638; Nov. 14; Sp. p. 2302; Gaz. vol. 172; p. 389.
Goff, Daniel, Millville, N. J., assignor to Goff Gravity Boiler Feed Company. Boiler-feed. No. 985,409; Feb. 28; Sp. p. 4647; Gaz. vol. 163; p. 832.
Goff, Frank, Camden, N. J. Air-brake system. No. 991,500; May 9; Sp. p. 1434; Gaz. vol. 166; p. 270.
Goff, Frank C., Denver, Colo. Animal-treating apparatus. No. 983,820; Feb. 7; Sp. p. 1188; Gaz. vol. 163; p. 192.
Goff, George W. (See Anderson and Goff.)
Goff Gravity Boiler Feed Company. (See Goff, Daniel, assignor.)
Goff, Joseph G., *et al.* (See Hutson, William A., assignor.)
Goffin, Abraham D., New Haven, Conn. Garment-fly. No. 1,004,869; Oct. 3; Sp. p. 699; Gaz. vol. 171; p. 114.
Goffin, Abraham D., New Haven, Conn. Cigar-case. No. 1,009,238; Nov. 21; Sp. p. 3606; Gaz. vol. 172; p. 629.
Gogarten, Albert, Dusseldorf, Germany. Vise. No. 1,001,752; Aug. 29; Sp. p. 5455; Gaz. vol. 169; p. 1004.
Gohn, John E., Jr., Wrightsville, Pa. Clutch mechanism. No. 1,011,426; Dec. 12; Sp. p. 2298; Gaz. vol. 173; p. 393.
Göhring, Jakob, Wainwright, Alberta, Canada. Wheeled vehicle. No. 989,841; Apr. 18; Sp. p. 3334; Gaz. vol. 165; p. 581.
Going, George G., and J. A. Ruffin, New York, N. Y. Typewriter. No. 992,125; May 9; Sp. p. 2722; Gaz. vol. 166; p. 482.
Going, George G., and J. A. Ruffin, New York, N. Y. Typewriter. No. 1,008,964; Nov. 14; Sp. p. 2980; Gaz. vol. 172; p. 497.
Going Manufacturing Company, The. (See Going, William J., assignor.) (Reissue.)
Going, William J., assignor to The Going Manufacturing Company, Amsterdam, N. Y. Machine for shaping blanks. No. 983,436; Feb. 7; Sp. p. 372; Gaz. vol. 163; p. 62.
Going, William J., assignor to The Going Manufacturing Company, Amsterdam, N. Y. Machine for shaping blanks. (Reissue.) No. 13,226; Apr. 11; Sp. p. 2688; Gaz. vol. 165; p. 451.
Gold, Anton, Newark, N. J. Cork-cutting machine. No. 1,005,195; Oct. 10; Sp. p. 1334; Gaz. vol. 171; p. 247.
Gold, Edward E., New York, N. Y. Ventilator. No. 985,158; Feb. 28; Sp. p. 4109; Gaz. vol. 163; p. 748.
Gold, Edward E., New York, N. Y. Valve for heating systems. No. 985,410; Feb. 28; Sp. p. 4657; Gaz. vol. 163; p. 833.
Gold, Edward E., New York, N. Y. Heating system. No. 994,994; June 13; Sp. p. 1985; Gaz. vol. 167; p. 347.
Gold, Edward E., New York, N. Y. Heating system. No. 1,007,000; Oct. 24; Sp. p. 5378; Gaz. vol. 171; p. 943.
Gold, Edward E., New York, N. Y. Ventilator for thermostats. No. 1,007,862; Nov. 7; Sp. p. 501; Gaz. vol. 172; p. 75.
Gold, Edward E., New York, N. Y. Trapped heating system. No. 1,007,939; Nov. 7; Sp. p. 659; Gaz. vol. 172; p. 102.
Gold, Egbert H., Chicago, Ill. Sleeping-car-heating system. No. 987,565; Mar. 21; Sp. p. 3777; Gaz. vol. 164; p. 675.
Gold, Egbert H., Chicago, Ill. Steam-heating system for sleeping-cars. No. 987,566; Mar. 21; Sp. p. 3785; Gaz. vol. 164; p. 675.
Gold, Egbert H., Chicago, Ill. Heating system for compartment-cars. No. 987,567; Mar. 21; Sp. p. 3791; Gaz. vol. 164; p. 676.
Gold, Egbert H., Chicago, Ill. Heating system. No. 987,568; Mar. 21; Sp. p. 3796; Gaz. vol. 164; p. 676.
Gold, Egbert H., Chicago, Ill. Multiple-regulation heating system. No. 987,569; Mar. 21; Sp. p. 3801; Gaz. vol. 164; p. 677.
Gold, Egbert H., Chicago, Ill. Sleeping-car heater. No. 987,570; Mar. 21; Sp. p. 3804; Gaz. vol. 164; p. 678.
Gold, Egbert H., Chicago, Ill. Heating and ventilating system. No. 995,403; June 13; Sp. p. 2836; Gaz. vol. 167; p. 482.
Gold, Egbert H., Chicago, Ill. Railway-car. No. 1,008,324; Nov. 14; Sp. p. 1513; Gaz. vol. 172; p. 277.
Gold, Egbert H., Chicago, Ill. Steam-heating system. No. 1,008,325; Nov. 14; Sp. p. 1517; Gaz. vol. 172; p. 278.
Gold, Egbert H., Chicago, Ill. Metal-wall construction for railway-cars. No. 1,008,536; Nov. 14; Sp. p. 2057; Gaz. vol. 172; p. 351.
Gold, Egbert H., assignor to Roth Manufacturing Company, Chicago, Ill. Stove. No. 983,044; Jan. 31; Sp. p. 6311; Gaz. vol. 162; p. 1097.
Gold, Isidor, New York, N. Y. Watch. No. 985,739; Feb. 28; Sp. p. 5408; Gaz. vol. 163; p. 948.
Gold, Marion, New York, N. Y. Trap for catching and electrocuting rats. No. 1,012,351; Dec. 19; Sp. p. 4384; Gaz. vol. 173; p. 750.
Gold, Maturen, Hayward, Okla., and W. A. Montgomery, Solano, N. Mex. Mine safety apparatus. No. 1,005,196; Oct. 10; Sp. p. 1338; Gaz. vol. 171; p. 247.
Gold, Russell, assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Transom-lock. No. 985,894; Mar. 7; Sp. p. 293; Gaz. vol. 164; p. 47.
Gold, Zachariah J., Stella, and W. M. Newton, Granby, Mo. Making black and white negatives for photo-engraving and other similar photographic reproductions. No. 1,002,386; Sept. 5; Sp. p. 483; Gaz. vol. 170; p. 68.

Goldbeck, Charles F., Philadelphia, Pa. Coin-wrapper. No. 1,001,138; Aug. 22; Sp. p. 4193; Gaz. vol. 169; p. 767.
Goldberg, Abraham, New York, N. Y. Skirt. No. 1,003,734; Sept. 19; Sp. p. 3381; Gaz. vol. 170; p. 603.
Goldberg, Louis, Indianapolis, Ind. Ozonator. No. 995,958; June 20; Sp. p. 4060; Gaz. vol. 167; p. 706.
Goldberg, Morris, assignor of one-half to P. L. Alberse, Paterson, N. J. Horseshoe. No. 1,008,133; Nov. 7; Sp. p. 1041; Gaz. vol. 172; p. 169.
Goldberg, Morris G., New York, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,009,299; Nov. 21; Sp. p. 3741; Gaz. vol. 172; p. 652.
Goldblatt, Paul D., Philadelphia, Pa. Trunk-tag. No. 1,009,735; Nov. 28; Sp. p. 4657; Gaz. vol. 172; p. 846.
Golde, Traugott, Gera, Germany. Folding top of vehicles. No. 1,012,352; Dec. 19; Sp. p. 4387; Gaz. vol. 173; p. 751.
Golden, Belknap and Swartz Company. (See Belknap and Swartz, assignors.)
Golden, Charles F., La Fayette, Ind. Flagstaff. No. 1,002,260; Sept. 5; Sp. p. 167; Gaz. vol. 170; p. 21.
Golden, Daniel J., Randolph, assignor to W. T. Stall, C. H. Dean, and D. J. Golden, Brockton, Mass. Sporting-shoe. No. 1,012,197; Dec. 19; Sp. p. 4062; Gaz. vol. 173; p. 698.
Golden, Ephraim P., Chicago, Ill., assignor to J. O. Golden, Portland, Oreg. Door-hanger. No. 996,481; June 27; Sp. p. 5251; Gaz. vol. 167; p. 921.
Golden, Ephraim P., Chicago, Ill., assignor to J. O. Golden, Portland, Oreg. Hanger for sliding doors. No. 1,001,586; Aug. 22; Sp. p. 5078; Gaz. vol. 169; p. 915.
Golden, James F. (See Martin and Golden.)
Golden, John O. (See Golden, Ephraim P., assignor.)
Golden Novelty Mfg. Company. (See Schwartz, Morris, assignor.)
Golden, Oscar, El Paso, Tex. Dumping-bottom for ash-pans of locomotives. No. 1,012,074; Dec. 19; Sp. p. 3782; Gaz. vol. 173; p. 655.
Goldenberg, Benjamin, New York, N. Y. Making dolls' heads and limbs. No. 1,010,042; Nov. 28; Sp. p. 5302; Gaz. vol. 172; p. 950.
Goldfield, Abraham T., New York, N. Y. Toy. No. 983,133; Jan. 31; Sp. p. 6477; Gaz. vol. 162; p. 1126.
Goldhamer, William N., St. Louis, Mo. Gas-range. No. 995,451; June 20; Sp. p. 2956; Gaz. vol. 167; p. 527.
Goldhamer, William N., St. Louis, Mo. Simmering-burner. No. 1,007,863; Nov. 7; Sp. p. 503; Gaz. vol. 172; p. 75.
Goldman, Barney, New York, N. Y. Skylight. No. 1,009,502; Nov. 21; Sp. p. 4206; Gaz. vol. 172; p. 723.
Goldman, David and H. H., Detroit, Mich. Sanitary fixture for water-closets. No. 981,636; Jan. 17; Sp. p. 3281; Gaz. vol. 162; p. 557.
Goldman, David and H. H., Detroit, Mich. Disinfecting garbage-pail. No. 984,272; Feb. 14; Sp. p. 2231; Gaz. vol. 163; p. 377.
Goldman, Hirsch H. (See Goldman, David and H. H.)
Goldman, Hymen, *et al.* (See Ackerman, Maurice, assignor.)
Goldman, Joseph. (See Campbell, William A., assignor.)
Goldman, Louis B., Downsleigh, Haywards Heath, England. Aerial machine. No. 1,009,736; Nov. 28; Sp. p. 4660; Gaz. vol. 172; p. 847.
Goldman, Samuel S. (See Appel and Goldman.)
Goldman, Sigmund L., Chicago, Ill. Elevator. No. 991,148; May 2; Sp. p. 681; Gaz. vol. 166; p. 116.
Goldman, Sigmund L., Chicago, Ill. Bottle-rack. No. 1,012,843; Dec. 26; Sp. p. 5452; Gaz. vol. 173; p. 965.
Goldner, George E., Fort Dodge, Iowa. Device for finishing the ends of drain-tiles and the like. No. 1,001,945; Aug. 29; Sp. p. 5893; Gaz. vol. 169; p. 1068.
Goldner, George E., assignor to himself and Vincent Clay Products Company, Fort Dodge, Iowa. Continuous kiln. No. 1,011,050; Dec. 5; Sp. p. 1417; Gaz. vol. 173; p. 225.
Goldsborough, Winder E., La Fayette, Ind. Alternating-current motor. No. 990,647; Apr. 25; Sp. p. 5112; Gaz. vol. 165; p. 890.
Goldschmid, Jacob E. (See Dicke, Hugo, assignor.)
Goldschmidt, Karl, and J. Weber, Essen-on-the-Ruhr, Germany. Detinning tin-scrap. No. 1,005,022; Oct. 3; Sp. p. 990; Gaz. vol. 171; p. 165.
Goldschmidt, Rudolf, Darmstadt, Germany. Apparatus for producing high-frequency currents. No. 999,987; Aug. 8; Sp. p. 1587; Gaz. vol. 169; p. 299.
Goldschmidt, Firm of Th. (See Schultz, Hermann, assignor.)
Goldschmidt Thermit Company. (See Lukaszewske, Anton, assignor.)
Goldsmith, Frederick E., Middletown, assignor to The Ceramic Machinery Company, Hamilton, Ohio. Kiln. No. 985,797; Mar. 7; Sp. p. 60; Gaz. vol. 164; p. 13.
Goldsmith, George H., Saylesville, and J. C. Rankine, Pawtucket, R. I. Atomizer or volatilizer. No. 992,348; May 16; Sp. p. 3287; Gaz. vol. 166; p. 592.
Goldsmith, Manning, Decatur, Ga. Wheel structure. No. 1,001,753; Aug. 29; Sp. p. 5456; Gaz. vol. 169; p. 1004.
Goldsmith, Marcus T., Newark, N. J. Fastener. No. 986,053; Mar. 7; Sp. p. 637; Gaz. vol. 164; p. 103.
Goldsmith, Marcus T., Newark, N. J. Silversmith's stock. No. 990,253; Apr. 25; Sp. p. 4218; Gaz. vol. 165; p. 752.
Goldsmith, Marcus T., Newark, N. J. Safety-pin. No. 996,639; July 4; Sp. p. 97; Gaz. vol. 168; p. 17.
Goldsmith, Nathaniel O., and J. Metzger, assignors to The Weir Frog Company, Norwood, Ohio. Guard-rail clamp. No. 997,991; July 18; Sp. p. 3010; Gaz. vol. 168; p. 550.
Goldsmith, William M., Cincinnati, Ohio. Sash construction. No. 1,005,826; Oct. 17; Sp. p. 2751; Gaz. vol. 171; p. 501.
Goldson, William H., Oakland, Cal. Prismatic lens. No. 989,244; Apr. 11; Sp. p. 2009; Gaz. vol. 165; p. 345.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Temperature-alarm. No. 981,996; Jan. 17; Sp. p. 4090; Gaz. vol. 162; p. 682.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Signal-telegraph. No. 981,997; Jan. 17; Sp. p. 4091; Gaz. vol. 162; p. 682.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical thermostatic alarm system. No. 981,998; Jan. 17; Sp. p. 4095; Gaz. vol. 162; p. 682.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical system for the supervision of watchmen. No. 982,052; Jan. 17; Sp. p. 4200; Gaz. vol. 162; p. 700.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical alarm system. No. 984,211; Feb. 14; Sp. p. 2094; Gaz. vol. 163; p. 355.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrothermostatic alarm system. No. 986,706; Mar. 14; Sp. p. 2015; Gaz. vol. 164; p. 353.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical-circuit controller and alarm. No. 986,707; Mar. 14; Sp. p. 2017; Gaz. vol. 164; p. 353.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Sprinkler alarm system. No. 988,768; Apr. 4; Sp. p. 1032; Gaz. vol. 165; p. 164.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical thermostat. No. 989,347; Apr. 11; Sp. p. 2241; Gaz. vol. 165; p. 380.
Goldstein, Albert, New York, N. Y., assignor to International Electric Protection Company. Electrical system for the supervision of watchmen. No. 990,434; Apr. 25; Sp. p. 4650; Gaz. vol. 165; p. 818.
Goldstein, Albert, and H. F. Blackwell, New York, N. Y., assignors to International Electric Protection Company. Sprinkler-alarm system. No. 984,210; Feb. 14; Sp. p. 2092; Gaz. vol. 163; p. 355.
Goldstein, Charles K., San Francisco, Cal. Davenport. No. 1,004,645; Oct. 3; Sp. p. 206; Gaz. vol. 171; p. 36.
Goldstein, Martin, assignor of one-half to E. H. Harper, Keystone, W. Va. Folding crate. No. 1,004,414; Sept. 26; Sp. p. 4896; Gaz. vol. 170; p. 863.
Goldstein, Robert, New York, N. Y. Magazine plate-holder. No. 984,901; Feb. 21; Sp. p. 3548; Gaz. vol. 163; p. 627.
Goldstein, Robert, New York, N. Y. Photographic camera. No. 990,727; Apr. 25; Sp. p. 5307; Gaz. vol. 165; p. 915.
Goldstein, Robert, New York, N. Y. Photographic magazine-camera. No. 1,007,440; Oct. 31; Sp. p. 6347; Gaz. vol. 171; p. 1153.
Goldtree, M. N., *et al.* (See Roehrig, Bernard F., assignor.)
Goldy, Ernest S., Philadelphia, Pa. Tooth-brush. No. 1,007,864; Nov. 7; Sp. p. 505; Gaz. vol. 172; p. 76.
Golensky, Rose, Cleveland, Ohio. Rotary grater. No. 995,532; June 20; Sp. p. 3131; Gaz. vol. 167; p. 557.
Golick, Antony, New York, N. Y. Combination-garment. No. 1,011,339; Dec. 12; Sp. p. 2135; Gaz. vol. 173; p. 364.
Gollner, Philip, Chicago, Ill. Plumber's trap. No. 1,000,087; Aug. 8; Sp. p. 1849; Gaz. vol. 169; p. 334.
Gollobin, Harry A., and N. A. Bornstein, assignors to The Dental Denture Improvement Company, Newark, N. J. Artificial tooth. No. 989,245; Apr. 11; Sp. p. 2011; Gaz. vol. 165; p. 345.
Gollobin, Harry A., and N. A. Bornstein, assignors to The Dental Denture Improvement Company, Newark, N. J. Artificial tooth. No. 989,246; Apr. 11; Sp. p. 2011; Gaz. vol. 165; p. 345.
Gollobin, Harry A., and N. A. Bornstein, assignors to The Dental Denture Improvement Company, Newark, N. J. Artificial tooth. No. 989,247; Apr. 11; Sp. p. 2012; Gaz. vol. 165; p. 345.
Gollobin, Harry A., and N. A. Bornstein, assignors to The Dental Denture Improvement Company, Newark, N. J. Artificial tooth. No. 989,248; Apr. 11; Sp. p. 2013; Gaz. vol. 165; p. 346.
Gollobin, Harry A., and N. A. Bornstein, assignors to The Dental Denture Improvement Company, Newark, N. J. Removable bridge for teeth. No. 1,008,028; Nov. 7; Sp. p. 824; Gaz. vol. 172; p. 131.
Gombarts, George K., New York, N. Y. Drafting instrument. No. 1,005,827; Oct. 17; Sp. p. 2752; Gaz. vol. 171; p. 502.

Gomez, Sixto, and E. Saez, Contreras, Mexico. Decorticating-machine. No. 992,418; May 16; Sp. p. 3426; Gaz. vol. 166; p. 617.
Gonzalez, José, Laredo, Tex. Water-motor. No. 1,008,257; Nov. 7; Sp. p. 1310; Gaz. vol. 172; p. 214.
Gonzenbach, Ernest, Greensboro, N. C., assignor to Westinghouse Electric & Manufacturing Company. Engineer's valve. No. 990,976; May 2; Sp. p. 313; Gaz. vol. 166; p. 54.
Gooch, Charles W., Ellsworth, Minn. Steel railway-tie. No. 999,644; Aug. 1; Sp. p. 879; Gaz. vol. 169; p. 153.
Gooch, Oswald S., Cedarville, Cal. Work-bench stop. No. 982,716; Jan. 24; Sp. p. 5562; Gaz. vol. 162; p. 957.
Good, Alexander, Thornton Heath, England. Device for retaining ladies' hats on the heads of the wearers. No. 1,001,139; Aug. 22; Sp. p. 4195; Gaz. vol. 169; p. 767.
Good, David C., Taft, Tenn. Latch. No. 982,226; Jan. 17; Sp. p. 4533; Gaz. vol. 162; p. 759.
Good, Ezra E., Waterloo, Iowa. Milk-can attachment for milking apparatus. No. 991,776; May 9; Sp. p. 2022; Gaz. vol. 166; p. 364.
Good, Ezra E., Waterloo, Iowa. Pulsating device for milking apparatus. No. 1,007,865; Nov. 7; Sp. p. 506; Gaz. vol. 172; p. 76.
Good, Oliver F., Dayton, Ohio. Gas-engine. No. 1,012,844; Dec. 26; Sp. p. 5454; Gaz. vol. 173; p. 965.
Good, Peter, Wilkes-Barre, Pa. Cooler. No. 991,715; May 9; Sp. p. 1927; Gaz. vol. 166; p. 346.
Goodale, Delia, Fort Collins, Colo. Drinking-cup. No. 995,343; June 13; Sp. p. 2703; Gaz. vol. 167; p. 462.
Goodale, John C., Kalamazoo, Mich. Flask-hinge. No. 1,001,018; Aug. 22; Sp. p. 3939; Gaz. vol. 169; p. 725.
Goodall, Albert, Spennymoor, England. Apparatus for quenching, screening, and loading coke. No. 982,590; Jan. 24; Sp. p. 5313; Gaz. vol. 162; p. 916.
Goodall, John N., Portsmouth, N. H., assignor, by mesne assignments, to Goodall Manufacturing Company. Pipe-coupling. No. 980,245; Jan. 3; Sp. p. 129; Gaz. vol. 162; p. 25.
Goodall Manufacturing Company. (See Goodall, John N., assignor.)
Goodall Worsted Company. (See Sharp, Craven, assignor.)
Goodall Worsted Company. (See Wilkinson, Samuel, assignor.)
Goodard, John J. (See Dixon and Goodard.)
Goodchild, Edward B. (See Randle and Goodchild.)
Goodell, Albert D., assignor to Goodell Tool Company, Shelburne Falls, Mass. Saw-setting device. No. 984,478; Feb. 14; Sp. p. 2629; Gaz. vol. 163; p. 444.
Goodell, Albert D., assignor to Goodell Tool Company, Shelburne Falls, Mass. Device for turning shoulders on wooden spokes. No. 1,010,894; Dec. 5; Sp. p. 1099; Gaz. vol. 173; p. 172.
Goodell Company. (See Mower, Fred G., assignor.)
Goodell, Homer T., Philbrook, Mont. Harrow-tooth. No. 985,582; Feb. 28; Sp. p. 5063; Gaz. vol. 163; p. 894.
Goodell, Lewis W. (See Hill, Charles D., assignor.)
Goodell Tool Company. (See Goodell, Albert D., assignor.)
Goodelman, Joseph, New York, N. Y. Cloth-cutting machine. No. 1,011,185; Dec. 12; Sp. p. 1768; Gaz. vol. 173; p. 308.
Goodfellow, Joseph, Fort Edward, N. Y. Steam-generator. No. 1,000,400; Aug. 15; Sp. p. 2530; Gaz. vol. 169; p. 472.
Goodfellow, Joseph, Vancouver, British Columbia, Canada. Protractor. No. 1,008,814; Nov. 14; Sp. p. 2672; Gaz. vol. 172; p. 449.
Goodfellow, Moore, deceased, (J. O. Dye, administrator,) assignor of one-half to J. O. Dye, Columbus, Ohio. Beet-harvester. No. 991,149; May 2; Sp. p. 683; Gaz. vol. 166; p. 116.
Goodfellow, Willard H., Detroit, Mich. Filling hollow tires. No. 993,054; May 23; Sp. p. 4777; Gaz. vol. 166; p. 869.
Goodhart, Gavin C., Willows, Inkpen, England. Self-starting device for internal-combustion engines. No. 1,009,503; Nov. 21; Sp. p. 4207; Gaz. vol. 172; p. 724.
Goodier, James H., Utica, N. Y. Advertising device. No. 1,007,194; Oct. 31; Sp. p. 5843; Gaz. vol. 171; p. 1066.
Goodin, William H., Reno, Nev. Adding and registering device. No. 1,007,350; Oct. 31; Sp. p. 6151; Gaz. vol. 171; p. 1122.
Gooding, Charles S., Brookline, and S. E. Taft, South Framingham, assignors of one-half to said Gooding, and one-half to L. H. Vogel, Jamaica Plain, Mass. Machine for feeding protectors for the heels and soles of boots and shoes. No. 1,010,492; Dec. 5; Sp. p. 200; Gaz. vol. 173; p. 33.
GoodKnight, John M., Kansas City, Kans. Elevator. No. 998,610; July 25; Sp. p. 4374; Gaz. vol. 168; p. 801.
GoodKnight, John M., Kansas City, Kans. Car-wheel. No. 1,001,754; Aug. 29; Sp. p. 5454; Gaz. vol. 169; p. 1005.
GoodKnight, John M., Kansas City, Kans. Car-coupling. No. 1,010,136; Nov. 28; Sp. p. 5484; Gaz. vol. 172; p. 982.
Goodlad, Elizabeth, *et al.* (See Geraghty, John P., assignor.)
Goodlett, Joseph E. J., Memphis, Tenn. Machine for impregnating stock foods. No. 981,549; Jan. 10; Sp. p. 3098; Gaz. vol. 162; p. 505.
Goodlett, Joseph E. J., assignor to H. J. Forsdick and P. McIntyre, Memphis, Tenn. Making or mixing stock foods. No. 1,005,536; Oct. 10; Sp. p. 2096; Gaz. vol. 171; p. 369.
Goodling and Smyser. (See Hassler, Samuel W., assignor.)
Goodman, Benedict, Wallace, Kans. Cutting-tool. No. 991,295; May 2; Sp. p. 1006; Gaz. vol. 166; p. 169.
Goodman, Nathan N., Milwaukee, Wis. Head-gear. No. 991,777; May 9; Sp. p. 2024; Gaz. vol. 166; p. 364.
Goodner, James A., Rocky Ford, Colo. Centrifugal pump. No. 1,004,015; Sept. 26; Sp. p. 4014; Gaz. vol. 170; p. 726.
Goodrich, Charles E. (See Walter and Goodrich.)
Goodrich, Charles E., Daggett, assignor of one-half to J. H. Sloan, Barstow, Cal. Explosive-engine. No. 988,704; Apr. 4; Sp. p. 902; Gaz. vol. 165; p. 142.
Goodrich, Charles F. (See Rice, Bryan, and Goodrich.)
Goodrich, Clarence L., assignor to Pratt & Whitney Company, Hartford, Conn. Chuck. No. 984,809; Feb. 21; Sp. p. 3381; Gaz. vol. 163; p. 596.
Goodrich, David A., North Platte, Nebr. Fence structure. No. 1,012,626; Dec. 26; Sp. p. 4945; Gaz. vol. 173; p. 889.
Goodrich, Ella W., Los Angeles, Cal. Garment. No. 1,002,579; Sept. 5; Sp. p. 892; Gaz. vol. 170; p. 132.
Goodrich, Emory W., Somerville, Mass. Projection apparatus. No. 1,008,134; Nov. 7; Sp. p. 1042; Gaz. vol. 172; p. 169.
Goodrich, Frank L., Belvidere, Ill. Oven for gas-stoves. No. 989,842; Apr. 18; Sp. p. 3335; Gaz. vol. 165; p. 581.
Goodrich, Henry W., Nutley, N. J. Dry-dock. No. 995,862; June 20; Sp. p. 3876; Gaz. vol. 167; p. 673.
Goodrich, R. E. (See Merritt, James M., assignor.)
Goodrich, Ralph B., College Hill, assignor to The Eagle Manufacturing Company, Cincinnati, Ohio. Lid-fastening device. No. 981,550; Jan. 10; Sp. p. 3100; Gaz. vol. 162; p. 506.
Goodrich, Ralph B., assignor to The Eagle Manufacturing Company, Cincinnati, Ohio. Gearing for washing-machines. No. 1,008,537; Nov. 14; Sp. p. 2059; Gaz. vol. 172; p. 351.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Pull-switch. No. 984,902; Feb. 21; Sp. p. 3549; Gaz. vol. 163; p. 627.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp-socket cap. No. 987,356; Mar. 21; Sp. p. 3373; Gaz. vol. 164; p. 606.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp socket. (Reissue.) No. 13,227; Apr. 18; Sp. p. 4097; Gaz. vol. 165; p. 705.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment-plug. No. 1,005,023; Oct. 3; Sp. p. 993; Gaz. vol. 171; p. 166.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,008,900; Nov. 14; Sp. p. 2837; Gaz. vol. 172; p. 477.
Goodrum, Charles L. (See Temple and Goodrum.)
Goodsell, Virgil S., South Milford, Ind. Saw-set and raker-gage. No. 1,009,737; Nov. 28; Sp. p. 4662; Gaz. vol. 172; p. 847.
Goodspeed, Fred H., Berkeley, Cal. Automatic poultry-duster. No. 1,003,136; Sept. 12; Sp. p. 2095; Gaz. vol. 170; p. 360.
Goodspeed, Leland F., Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Rail motor-car. No. 1,002,834; Sept. 12; Sp. p. 1442; Gaz. vol. 170; p. 257.
Goodspeed, Leland F., Milwaukee, Wis., assignor of one-half to H. H. Westinghouse, New York, N. Y. Pneumatic control device. No. 1,004,016; Sept. 26; Sp. p. 4016; Gaz. vol. 170; p. 726.
Goodspeed, Mathew A., Fremont, Nebr. Dust-consumer. No. 981,409; Jan. 10; Sp. p. 2834; Gaz. vol. 162; p. 457.
Goodwin, Adam M. and S. F., Pittsburg, Pa. Fountain-brush. No. 1,002,673; Sept. 5; Sp. p. 1084; Gaz. vol. 170; p. 163.
Goodwin, Edward C., and E. D. House, assignors to The Hart & Cooley Company, New Britain, Conn. Ball-cage. No. 981,551; Jan. 10; Sp. p. 3102; Gaz. vol. 162; p. 506.
Goodwin, Edwin B., Ward, Colo. Apparatus for treating ores. No. 988,458; Apr. 4; Sp. p. 350; Gaz. vol. 165; p. 58.
Goodwin, Frank E. (See Reifsnider and Goodwin.)
Goodwin, George. (See Reid, James H., assignor.)
Goodwin, George H., *et al.* (See Neville, Harry, assignor.)
Goodwin, John M., Spokane, Wash. Valve-releasing mechanism for dumping-cars. No. 980,629; Jan. 3; Sp. p. 964; Gaz. vol. 162; p. 157.
Goodwin, Joseph A., Berkley, Va. Aeroplane. No. 981,410; Jan. 10; Sp. p. 2836; Gaz. vol. 162; p. 458.
Goodwin, Joseph A., Millville, N. J. Flying-machine. No. 1,002,674; Sept. 5; Sp. p. 1085; Gaz. vol. 170; p. 164.
Goodwin, Julius C., Philadelphia, Pa. Seam for sewed articles. No. 1,011,186; Dec. 12; Sp. p. 1770; Gaz. vol. 173; p. 309.
Goodwin, Levi H., Cincinnati, Ohio. Vehicle-brake. No. 995,344; June 13; Sp. p. 2704; Gaz. vol. 167; p. 463.

Alphabetical list of patentees—Continued.

Goodwin, Margaret B., Denver, Colo. Extensible foot-rest for radiators and registers. No. 1,004,775; Oct. 3; Sp. p. 492; Gaz. vol. 171; p. 81.
Goodwin, Norman L., Tacoma, Wash. Self-loading cart. No. 987,621; Mar. 21; Sp. p. 3898; Gaz. vol. 164; p. 694.
Goodwin, Stewart F. (See Goodwin, Adam M. and S. F.)
Goodwin, Victor E., Schenectady, N. Y., assignor to General Electric Company., Electrolytic cell. No. 987,622; Mar. 21; Sp. p. 3900; Gaz. vol. 164; p. 695.
Goodwin, William F., and J. C. Low, San Francisco, Cal. Liquid-fuel-burner tip. No. 982,424; Jan. 24; Sp. p. 4964; Gaz. vol. 162; p. 859.
Goodyear, Charles H., Cedar Rapids, Iowa. Folding box. No. 998,497; July 18; Sp. p. 4118; Gaz. vol. 168; p. 730.
Goodyear, Nelson, New York, N. Y., assignor to Maine Development Corporation. Gas-blowpipe. No. 985,159; Feb. 28; Sp. p. 4111; Gaz. vol. 163; p. 748.
Goodyear, Nelson, New York, N. Y., assignor to Maine Development Corporation. Safety-valve. No. 985,160; Feb. 28; Sp. p. 4114; Gaz. vol. 163; p. 749.
Goodyear Tire and Rubber Company, The. (See Hale, James E., assignor.)
Goordman, Elmer O. (See Ekeberg and Goordman.)
Gordon, Alexander, Detroit, Mich. Device for shaping and holding cigar-bunches. No. 996,078; June 27; Sp. p. 4313; Gaz. vol. 167; p. 782.
Gordon, Charles H., San Jose, Cal. Hitching-chain. No. 986,973; Mar. 14; Sp. p. 2559; Gaz. vol. 164; p. 443.
Gordon, Claud S. (See Lane, Maurice L., assignor.)
Gordon, Clay, assignor of one-half to C. R. Patterson and Sons, Greenfield, Ohio. Buggy-top. No. 983,992; Feb. 14; Sp. p. 1619; Gaz. vol. 163; p. 280.
Gordon, Francis B., Albany, N. Y. Transfer-ticket holder. No. 1,008,135; Nov. 7; Sp. p. 1044; Gaz. vol. 172; p. 170.
Gordon, Frank T. (See Ivers, John W., assignor.)
Gordon, Fynis C., Asotin, Wash., assignor to Gordon Propeller Company, Cleveland, Ohio. Propeller. No. 989,500; Apr. 11; Sp. p. 2545; Gaz. vol. 165; p. 431.
Gordon, Hamilton A., East Orange, N. J. Turnstile. No. 990,728; Apr. 25; Sp. p. 5310; Gaz. vol. 165; p. 916.
Gordon, Harry, Boise, Idaho. Stump-puller. No. 992,419; May 16; Sp. p. 3428; Gaz. vol. 166; p. 617.
Gordon, Henry H., Huntington, N. Y. Tailor's measuring device. No. 988,459; Apr. 4; Sp. p. 358; Gaz. vol. 165; p. 58.
Gordon, Herbert E., Kiona, Wash. Stovepipe-fastener. No. 1,011,612; Dec. 12; Sp. p. 2761; Gaz. vol. 173; p. 462.
Gordon, Holland F., Corsicana, Tex. Switching device. No. 987,294; Mar. 21; Sp. p. 3246; Gaz. vol. 164; p. 585.
Gordon Hollow Blast Grate Company, The. (See Tower, Ray J., assignor.)
Gordon, Iphus H., Lyndonville, Vt. Screw-chuck. No. 1,004,415; Sept. 26; Sp. p. 4897; Gaz. vol. 170; p. 863.
Gordon, Ira F., Grand Rapids, Mich., and F. B. Niesz, assignors to Bucher and Gibbs Plow Company, Canton, Ohio. Combined land and corn roller. No. 998,498; July 18; Sp. p. 4119; Gaz. vol. 168; p. 730.
Gordon, James C., Detroit, Mich. Method and apparatus for mixing dough. No. 995,345; June 13; Sp. p. 2706; Gaz. vol. 167; p. 463.
Gordon, James W., *et al.* (See Jordan, James, assignor.)
Gordon, John L., *et al.* (See Macduffee, Chester E., assignor.)
Gordon, Orville E., Rays Crossing, Ind. Fire-extinguishing apparatus. No. 1,002,387; Sept. 5; Sp. p. 484; Gaz. vol. 170; p. 68.
Gordon Propeller Company. (See Gordon, Fynis C., assignor.)
Gordon, Simon, Washington, D. C. Cushioned tire for automobile-wheels. No. 991,612; May 9; Sp. p. 1693; Gaz. vol. 166; p. 311.
Gordon, Simon W. (See Weener and Gordon.)
Gordon, William, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making insoles. No. 989,142; Apr. 11; Sp. p. 1782; Gaz. vol. 165; p. 310.
Gordon, William A. (See Sintz, Clark, assignor.)
Gordon, William A., Shelton, assignor to Birmingham Iron Foundry, Derby, Conn. Fluid-operated safety-clutch. No. 998,499; July 18; Sp. p. 4122; Gaz. vol. 168; p. 731.
Gore, Frederick W., New York, N. Y. Holder for globes and shades of artificial lights. No. 996,710; July 4; Sp. p. 229; Gaz. vol. 168; p. 40.
Gore, Henry J., London, England. Type-holder. No. 998,169; July 18; Sp. p. 3398; Gaz. vol. 168; p. 613.
Gore, John C., Atlanta, Ga. Hoe. No. 992,867; May 23; Sp. p. 4371; Gaz. vol. 166; p. 803.
Gore, Millard F., Baltimore, Md. Fire-escape. No. 1,002,146; Aug. 29; Sp. p. 6269; Gaz. vol. 169; p. 1133.
Gore, Thomas, Brooklyn, N. Y. Wire rope or cable. No. 986,817; Mar. 14; Sp. p. 2257; Gaz. vol. 164; p. 390.
Gore, Thomas, New York, N. Y. Wire rope or cable. No. 1,003,597; Sept. 19; Sp. p. 3082; Gaz. vol. 170; p. 556.
Gore, Warren W., Olympia, Wash., and F. G. Hobart, Beloit, Wis., assignors to Fairbanks, Morse & Company, Chicago, Ill. Gas-cleaning apparatus. No. 981,188; Jan. 10; Sp. p. 2304; Gaz. vol. 162; p. 380.
Gore, William. (See Deacon and Gore.)
Gorenflo, James F., Jamestown, Miss. Bevel and angle tool. No. 994,741; June 13; Sp. p. 1410; Gaz. vol. 167; p. 262.
Gorgen, John B., Terre Haute, Ind. Sad-iron heater. No. 988,187; Mar. 28; Sp. p. 5164; Gaz. vol. 164; p. 916.
Gorham Manufacturing Company. (See Erichsen, Adolph C. E., assignor.)
Gorham Manufacturing Company. (See Pender, James E. P., assignor.)
Gorham, William H. (See Whiting, Koppes, and Gorham.)
Gorke, Herbert, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown basic azo dye. No. 999,713; Aug. 1; Sp. p. 1016; Gaz. vol. 169; p. 176.
Gorman, Cornelius, Philadelphia, Pa. Manifold-mold. No. 984,425; Feb. 14; Sp. p. 2523; Gaz. vol. 163; p. 426.
Gorman, James J., Durango, Colo. Hydrovacuum-creator. No. 1,008,712; Nov. 14; Sp. p. 2448; Gaz. vol. 172; p. 414.
Gorman, John T. (See McMurray, John H., assignor.)
Gorman, John T., San Francisco, Cal. Striking-bag apparatus. No. 992,868; May 23; Sp. p. 4372; Gaz. vol. 166; p. 803.
Gorman, Sam J. (See Thordarson, Chester H., assignor.)
Gorman, William H., Leominster, Mass. Mounting metal on celluloid. No. 1,008,029; Nov. 7; Sp. p. 826; Gaz. vol. 172; p. 131.
Gormley, Frank L., Boston, Mass. Ratchet device for lifting-jacks. No. 983,359; Feb. 7; Sp. p. 224; Gaz. vol. 163; p. 38.
Gormly, Robert W., Troy, N. Y. Bur for circular-knitting machines. No. 998,336; July 18; Sp. p. 3801; Gaz. vol. 168; p. 676.
Gornto, Albert S., Norfolk, Va. Shade-fixture. No. 996,482; June 27; Sp. p. 5252; Gaz. vol. 167; p. 921.
Gorovitz, Abe. (See Lasson and Gorovitz.)
Gorski, Anthony, Amsterdam, N. Y. Mustard appetizer. No. 1,010,252; Nov. 28; Sp. p. 5707; Gaz. vol. 172; p. 1020.
Gorsuch, Charles. (See Tice and Gorsuch.)
Gorsuch, Howard F., Sunbury, Ohio. Railway-tie. No. 995,452; June 20; Sp. p. 2959; Gaz. vol. 167; p. 528.
Gorsuch, Howard F., Columbus, Ohio. Stone-crusher. No. 1,002,261; Sept. 5; Sp. p. 168; Gaz. vol. 170; p. 21.
Gorter, Henry H., San Francisco, Cal. High-pressure nozzle. No. 984,557; Feb. 21; Sp. p. 2843; Gaz. vol. 163; p. 507.
Gorton, Joseph A., Montclair, N. J. Valve. No. 1,002,835; Sept. 12; Sp. p. 1447; Gaz. vol. 170; p. 257.
Gorton, Robert, Newton, Mass. Garment-supporter. No. 996,711; July 4; Sp. p. 233; Gaz. vol. 168; p. 40.
Goshen Churn & Ladder Company. (See Spears, Jesse R., assignor.)
Goslee, Hart J., Chicago, Ill., assignor to Consolidated Dental Manufacturing Company, New York, N. Y. Artificial-tooth crown. No. 996,921; July 4; Sp. p. 668; Gaz. vol. 168; p. 109.
Gosline, Edward W., Gemmell, Minn. Automobile sleigh. No. 1,012,627; Dec. 26; Sp. p. 4946; Gaz. vol. 173; p. 889.
Gosling, John W. (See Woodfield, Morris, and Gosling.)
Goslinski, Josef, Cleveland, Ohio. Cuspidor. No. 1,005,642; Oct. 10; Sp. p. 2363; Gaz. vol. 171; p. 405.
Goss, Charles E., Robert Lee, Tex. Vehicle-wheel. No. 1,006,650; Oct. 24; Sp. p. 4616; Gaz. vol. 171; p. 823.
Goss, Frederick, Millicent, South Australia, Australia. Alarm-clock. No. 995,249; June 13; Sp. p. 2486; Gaz. vol. 167; p. 430.
Goss, John E. (See Scott, Grubbs, and Goss.)
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Electric-light-socket cap. No. 1,006,651; Oct. 24; Sp. p. 4617; Gaz. vol. 171; p. 823.
Goss, John H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Hinged cap for powder-cans. No. 1,009,239; Nov. 21; Sp. p. 3607; Gaz. vol. 172; p. 629.
Goss, John H., Waterbury, Conn., and J. Weber, assignors to Weber Electric Company, Schenectady, N. Y. Holder for globes of lighting apparatus. No. 984,136; Feb. 14; Sp. p. 1912; Gaz. vol. 163; p. 328.
Goss, Joseph O., Adrian, assignor of one-half to J. J. Houtz, Merwin, Mo. Clevis. No. 1,005,537; Oct. 10; Sp. p. 2099; Gaz. vol. 171; p. 370.
Goss, Milford T., Chicago, Ill. Furnace-roof. No. 994,383; June 6; Sp. p. 592; Gaz. vol. 167; p. 101.
Goss Printing Press Company, The. (See Cox, Paul F., assignor.)
Goss Printing Press Company, The. (See Evensen, William, assignor.)
Goss Printing Press Company, The. (See Goss, Samuel G., assignor.)
Goss Printing Press Company. (See Seymour, Ralph C., assignor.)
Goss, Samuel G., Glencoe, assignor to The Goss Printing Press Company, Chicago, Ill. Binding and folding machine for printing-presses. No. 988,567; Apr. 4; Sp. p. 588; Gaz. vol. 165; p. 95.
Goss, Samuel G., Glencoe, assignor to The Goss Printing Press Company, Chicago, Ill. Automatic stereotype-plate-finishing machine. No. 1,009,738; Nov. 28; Sp. p. 4663; Gaz. vol. 172; p. 847.

Alphabetical list of patentees—Continued.

Gosselin, Xavier, Harpenden, assignor to Millwall Rubber Company Limited, White City, Harpenden, England. Apparatus for treating rubber compounds and the like. No. 1,009,504; Nov. 21; Sp. p. 4209; Gaz. vol. 172; p. 724.
Gossett, William, assignor of one-half to G. P. Greenwald, Falls City, Nebr. Extension-step. No. 1,006,933; Oct. 24; Sp. p. 5241; Gaz. vol. 171; p. 921.
Gossman, John E., and J. Brucken, Lester, Iowa. Post-card-vending machine. No. 983,045; Jan. 31; Sp. p. 6312; Gaz. vol. 162; p. 1098.
Gostiner, Frank, Port Huron, Mich. Car-brake. No. 1,009,505; Nov. 21; Sp. p. 4211; Gaz. vol. 172; p. 725.
Göthe, Emil A. O. (See Johansson and Göthe.)
Gotterba, Edward A., Bisbee, Ariz Driving and steering device for vehicles. No. 989,501; Apr. 11; Sp. p. 2547; Gaz. vol. 165; p. 431.
Gotterke, Fredrick W., Merced, Cal. Tuning-pin lock for pianos. No. 982,425; Jan. 24; Sp. p. 4965; Gaz. vol. 162; p. 859.
Gottesburen, Henry L., Kansas City, Kans. Sanitary anti-slipping attachment for horseshoes. No. 1,008,901; Nov. 14; Sp. p. 2838; Gaz. vol. 172; p. 477.
Gottlieb, William, Port Jervis, N. Y. Ship-cleaner. No. 1,008,136; Nov. 7; Sp. p. 1045; Gaz. vol. 172; p. 170.
Gottlob, Jacob B., *et al.* (See Hutson, William A., assignor.)
Gottschalk, Albert, New York, N. Y. Car-wheel lathe. No. 1,010,616; Dec. 5; Sp. p. 483; Gaz. vol. 173; p. 75.
Gottschalk & Co. (See Gottschalk, Hugo, assignor.)
Gottschalk, Felix, New York, N. Y. Telephone-transmitter. No. 1,000,795; Aug. 15; Sp. p. 3414; Gaz. vol. 169; p. 613.
Gottschalk, Hugo, Burnham, assignor to Gottschalk & Co., Inc., Reedsville, Pa. Method of and apparatus for mixing dough. No. 1,008,639; Nov. 14; Sp. p. 2306; Gaz. vol. 172; p. 390.
Gottsche, George J., Springfield, Mass. Screw-cutting wrench. No. 985,523; Feb. 28; Sp. p. 4939; Gaz. vol. 163; p. 874.
Gottvald, Adolf, Chicago, Ill. Pick. No. 983,859; Feb. 7; Sp. p. 1297; Gaz. vol. 163; p. 206.
Götz, Julius J., Offenbach-on-the-Main, Germany. Apparatus for measuring areas by means of electric-resistance coils. No. 981,552; Jan. 10; Sp. p. 3103; Gaz. vol. 162; p. 506.
Goudie, Eliza H. (See Tuerk and Goudie.)
Gougeon, Joseph, Baltic, Mich. Rotary engine. No. 1,000,509; Aug. 15; Sp. p. 2762; Gaz. vol. 169; p. 511.
Goughnour, Andrew D., Conemaugh, Pa. Center-punch gage. No. 1,003,043; Sept. 12; Sp. p. 1903; Gaz. vol. 170; p. 328.
Goughnour, Charles L., assignor to The United Electric Company, Canton, Ohio. Suction-nozzle. No. 993,772; May 30; Sp. p. 6341; Gaz. vol. 166; p. 1143.
Goughnour, Charles L., assignor to The United Electric Company, Canton, Ohio. Vertical bearing. No. 997,251; July 4; Sp. p. 1369; Gaz. vol. 168; p. 224.
Goughnour, Charles L., assignor to The United Electric Company, Canton, Ohio. Electric-motor starter. No. 1,012,198; Dec. 19; Sp. p. 4064; Gaz. vol. 173; p. 698.
Gould, A. S., *et al.* (See Peterson, Gus A., assignor.)
Gould, Albert S. (See Hugill, Gould, and Peterson.)
Gould Balance Valve Company. (See Gould, William F., assignor.)
Gould Coupler Company. (See Jepson, John W., assignor.)
Gould Coupler Company. (See Jepson and Bouché, assignors.)
Gould Coupler Company. (See Sherbondy, William H., assignor.)
Gould Coupler Company. (See Turbayne, William A., assignor.)
Gould, Frank E., Chicago, Ill. Automatic feed-regulator for boilers. No. 991,056; May 2; Sp. p. 467; Gaz. vol. 166; p. 81.
Gould, Harry B., assignor to The Merrow Machine Company, Hartford, Conn. Feeding device for sewing-machines. No. 1,001,388; Aug. 22; Sp. p. 4715; Gaz. vol. 169; p. 850.
Gould, John D., New York, N. Y. Thermostat. No. 1,011,942; Dec. 19; Sp. p. 3477; Gaz. vol. 173; p. 608.
Gould Storage Battery Company. (See Hall, Sidney J., assignor.)
Gould Storage Battery Company. (See Hubbard, Albert S., assignor.)
Gould Storage Battery Company. (See Hubbard and Van Wagenen, assignors.)
Gould Storage Battery Company. (See Turbayne, William A., assignor.)
Gould Storage Battery Company. (See Van Wagenen, Edward, assignor.)
Gould, William B., South Orange, N. J. Slat-clamp. No. 1,001,841; Aug. 29; Sp. p. 5645; Gaz. vol. 169; p. 1034.
Gould, William F., Des Moines, Iowa. Balanced valve. No. 992,350; May 16; Sp. p. 3292; Gaz. val. 166; p. 593.
Gould, William F., Des Moines, assignor to Gould Balance Valve Company, Kellogg, Iowa. Balanced slide-valve. No. 992,349; May 16; Sp. p. 3289; Gaz. vol. 166; p. 593.
Gouldbourn, Joseph. (See Barclay and Gouldbourn.)
Gouldbourn, Joseph. (See Bates, Jerram, and Gouldbourn.)
Gouldbourn, Joseph. (See Keall and Gouldbourn.)
Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Co., Paterson, N. J. Sole-pressing machine. No. 982,267; Jan. 24; Sp. p. 4625; Gaz. vol. 162; p. 802.
Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on welts. No. 996,483; June 27; Sp. p. 5253; Gaz. vol. 167; p. 921.
Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting nails in heels. No. 1,002,836; Sept. 12; Sp. p. 1450; Gaz. vol. 170; p. 258.
Goulet, Jules, Brussels, Belgium, assignor to A. D. Devos, The Hague, Netherlands. Hydrocarbon incandescent lamp. No. 1,011,943; Dec. 19; Sp. p. 3478; Gaz. vol. 173; p. 609.
Goulet, Moses, Northbridge, Mass. Loom-shuttle. No. 999,447; Aug. 1; Sp. p. 505; Gaz. vol. 169; p. 88.
Gourley, William R., Greenbrier, assignor of one-fifth to J. W. Romine, Parkersburg, one-fifth to J. P. Locke, one-fifth to S. C. Miller, Greenbrier, W. Va., and one-fifth to W. S. Stevenson, Butler, Pa. Cutter-bar for harvesting-machines. No. 997,495; July 11; Sp. p. 1854; Gaz. vol. 168; p. 335.
Gouty, Clarence A., assignor of one-half to H. F. Long, Springfield, Ill. Trolley. No. 1,001,636; Aug. 29; Sp. p. 5193; Gaz. vol. 169; p. 963.
Govert, W. H., *et al.* (See Little, James R., assignor.)
Gow, Alexander M., Duluth, Minn. Ore-washer. No. 998,573; July 18; Sp. p. 4280; Gaz. vol. 168; p. 756.
Gow, John, Schenectady, assignor of one-half to A. M. Loudon, Elmira, N. Y. Apparatus for making cores. No. 981,257; Jan. 10; Sp. p. 2493; Gaz. vol. 162; p. 405.
Gowdey, Clarence H., Hanover, N. H. Music-turner. No. 995,959; June 20; Sp. p. 4061; Gaz. vol. 167; p. 707.
Gowen, John K., Newark, N. J. Making vanilla extract. No. 1,010,043; Nov. 28; Sp. p. 5307; Gaz. vol. 172; p. 950.
Gowin, Willard C. (See Ross and Gowin.)
Gowlland, Charles S. (See Gowlland, Egbert and C. S.)
Gowlland, Egbert and C. S., Croydon, England. Ophthalmometer and certain other sight-testing instruments. No. 980,896; Jan. 3; Sp. p. 1562; Gaz. vol. 162; p. 247.
Goyeneche, Jose, Riverbank, Cal. Plow. No. 1,009,662; Nov. 21; Sp. p. 4494; Gaz. vol. 172; p. 774.
Graap, Frederick, Portland, Oreg. Hinge. No. 1,006,082; Oct. 17; Sp. p. 3312; Gaz. vol. 171; p. 591.
Grabau, Charles F., assignor of one-half to H. Aurnhammer, Newark, N. J. Spring-clip. No. 993,773; May 30; Sp. p. 6342; Gaz. vol. 166; p. 1143.
Grabb, Jacob, Sharpsburg, Pa. Horseshoe. No. 993,055; May 23; Sp. p. 4778; Gaz. vol. 166; p. 869.
Graber, John N., Mineral Point, Wis. Cultivator. No. 1,009,506; Nov. 21; Sp. p. 4212; Gaz. vol. 172; p. 725.
Graber, Robert A., New York, N. Y. Adding-machine. No. 1,002,262; Sept. 5; Sp. p. 170; Gaz. vol. 170; p. 21.
Grabhorn, Alexander, Hoboken, N. J. Finger-ring. No. 1,012,542; Dec. 19; Sp. p. 4745; Gaz. vol. 173; p. 815.
Grable, Guy C., assignor to N. F. Dunn, Minneapolis, Minn. Automatic hoist. No. 982,809; Jan. 31; Sp. p. 5778; Gaz. vol. 162; p. 1018.
Grabler Manufacturing Company, The. (See McCabe and Rosenfeld, assignors.)
Grace, Frederick J. (See Van Vechten, Orville R., assignor.)
Grace, James E., Detroit, Mich., assignor, by mesne assignments, to Chief Automobile Company. Vehicle. No. 1,008,713; Nov. 14; Sp. p. 2450; Gaz. vol. 172; p. 414.
Grace, John F., assignor to Henry R. Worthington, New York, N. Y. Counter-current condenser. No. 1,010,044; Nov. 28; Sp. p. 5305; Gaz. vol. 172; p. 951.
Grace, William E. (See Downs, George H., assignor.)
Gracely, Harvey T. (See Barnhart and Gracely.)
Gracy, Luther C., Gainesville, Fla. Automobile jack and tire-rest. No. 981,852; Jan. 17; Sp. p. 3738; Gaz. vol. 162; p. 632.
Graddick, F. C. (See Lane, Herbert B., assignor.)
Gradel, August and G., West Hoboken, N. J. Combined holder and receptacle. No. 984,903; Feb. 21; Sp. p. 3550; Gaz. vol. 163; p. 627.
Gradel, George. (See Gradel, August and G.)
Grady, Michael J., St. Pauls, Ontario, assignor of one-half to J. A. Beaty, Stratford, Canada. Hitching device. No. 1,012,840; Dec. 26; Sp. p. 5433; Gaz. vol. 173; p. 964.
Grady, Robert F. (See Such, George J., assignor.)
Grady, Thomas F., Dubuque, Iowa. Flue expander and beader. No. 1,006,934; Oct. 24; Sp. p. 5243; Gaz. vol. 171; p. 922.
Graef, Anthony H., assignor to R. S. Tolsma, Detroit, Mich. Machine for sharpening taps and dies. No. 983,993; Feb. 14; Sp. p. 1621; Gaz. vol. 163; p. 281.
Graef, Anthony H., assignor of one-half to P. Arthur, Detroit, Mich. Steering-gear. No. 998,611; July 25; Sp. p. 4377; Gaz. vol. 168; p. 802.
Graef, Francis S., New York, N. Y. Interior mold or form for concrete structures. No. 983,046; Jan. 31; Sp. p. 6317; Gaz. vol. 162; p. 1098.

Alphabetical list of patentees—Continued.

Graef, Josef, Everett, Wash. Window-pane fastener. No. 981,411; Jan. 10; Sp. p. 2841; Gaz. vol. 162; p. 458.
Graefe, Ernst F., Cisco, Tex. Poultry and animal fumigating device. No. 990,126; Apr. 18; Sp. p. 3915; Gaz. vol. 165; p. 675.
Graetz, Max, Berlin, Germany. Incandescent gas-lamp. No. 988,330; Apr. 4; Sp. p. 84; Gaz. vol. 165; p. 15.
Graf, Christopher, New York, N. Y., assignor of one-eighth to F. H. Edmonds, Washington, D. C. Anastigmatic objective. No. 981,412; Jan. 10; Sp. p. 2842; Gaz. vol. 162; p. 458.
Graf, Henry J. and T. H., Louisville, Ky. Hingeless snap-flask. No. 980,511; Jan. 3; Sp. p. 737; Gaz. vol. 162; p. 118.
Graf, Henry J. and T. H., Louisville, Ky. Molding-flask. No. 980,868; Jan. 3; Sp. p. 1481; Gaz. vol. 162; p. 237.
Graf, Henry J. and T. H., Louisville, Ky. Clamp for snap-molds. No. 980,869; Jan. 3; Sp. p. 1483; Gaz. vol. 162; p. 237.
Graf, Joseph J., Scranton, Pa. Call system for telephone-circuits. No. 999,367; Aug. 1; Sp. p. 349; Gaz. vol. 169; p. 61.
Graf, Miles M. (See Rand and Graf.)
Graf, Rudolf. (See Hahn and Graf.)
Graf, Theodore H. (See Graf, Henry J. and T. H.)
Graff, Harry H., Winthrop, Mass., assignor to The McCaskey Register Company, Alliance, Ohio. Recording, filing, and account-keeping system. No. 1,010,895; Dec. 5; Sp. p. 1101; Gaz. vol. 173; p. 173.
Graff, William. (See Baldwin and Graff.)
Graffam, Warren, Somerville, Mass. Roof-bracket. No. 986,456; Mar. 14; Sp. p. 1483; Gaz. vol. 164; p. 268.
Graft, Max, Philadelphia, Pa. Automatic magazine needle-holder. No. 989,544; Apr. 11; Sp. p. 2667; Gaz. vol. 165; p. 448.
Graham, Albert B. (See McCall and Graham.)
Graham, Albert C., Oilfields, Cal. Packer for wells. No. 995,250; June 13; Sp. p. 2487; Gaz. vol. 167; p. 431.
Graham, Archibald, Jr. (See Graham, John, A., Jr., and D. A.)
Graham, Charles E., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Abrading device. No. 1,003,448; Sept. 19; Sp. p. 2750; Gaz. vol. 170; p. 504.
Graham, Charles O., Logan, Kans. Grain-saver. No. 1,011,772; Dec. 12; Sp. p. 3077; Gaz. vol. 173; p. 515.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Soldering-machine. No. 983,821; Feb. 7; Sp. p. 1192; Gaz. vol. 163; p. 192.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Blank-feeding machine. No. 983,822; Feb. 7; Sp. p. 1198; Gaz. vol. 163; p. 193.
Graham, Charles W., Rome, assignor, by mesne assignments, to American Can Company, New York, N. Y. Soldering-machine. No. 989,249; Apr. 11; Sp. p. 2014; Gaz. vol. 165; p. 346.
Graham, Daniel O. (See Gill and Graham.)
Graham, David A. (See Graham, John, A., Jr., and D. A.)
Graham, Edward, assignor to Gulf Red Cedar Co., Inc., Lebanon, Tenn. Wood-sawing machine. No. 994,640; June 6; Sp. p. 1139; Gaz. vol. 167; p. 186.
Graham, Elmer E., Erie, Pa. Water-heater. No. 1,006,545; Oct. 24; Sp. p. 4402; Gaz. vol. 171; p. 786.
Graham, George G. (See Weigert, Graham, and Ullrich.)
Graham, George H., assignor of one-half to F. M. Lewis, Chicago, Ill. Differential mechanism. No. 981,258; Jan. 10; Sp. p. 2494; Gaz. vol. 162; p. 405.
Graham, George H., assignor of one-half to F. M. Lewis, Chicago, Ill. Differential mechanism. No. 981,259; Jan. 10; Sp. p. 2497; Gaz. vol. 162; p. 406.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Reinforced concrete. No. 983,274; Feb. 7; Sp. p. 33; Gaz. vol. 163; p. 7.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Fitting for reinforced concrete structures. No. 1,007,556; Oct. 31; Sp. p. 6613; Gaz. vol. 171; p. 1192.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Reinforced-concrete floor and ceiling. No. 1,007,557; Oct. 31; Sp. p. 6614; Gaz. vol. 171; p. 1193.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Reinforcing-frame for concrete structures. No. 1,007,558; Oct. 31; Sp. p. 6615; Gaz. vol. 171; p. 1193.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Pulling-jack. No. 1,007,559; Oct. 31; Sp. p. 6617; Gaz. vol. 171; p. 1193.
Graham, George M., Chicago, Ill., assignor, by mesne assignments, to Suspension Steel Concrete Company. Reinforcing-frame. No. 1,013,009; Dec. 26; Sp. p. 5830; Gaz. vol. 173; p. 1019.
Graham, Harry H. (See McGuire and Graham.)
Graham, Harvey, Kerrmoor, Pa. Gas-generator. No. 981,413; Jan. 10; Sp. p. 2844; Gaz. vol. 162; p. 459.
Graham, Howard C. (See Graham, Robert S. and H. C.)
Graham, Jacob W., Raritan, N. J. Spring-tire. No. 1,000,796; Aug. 15; Sp. p. 3416; Gaz. vol. 169; p. 614.
Graham, James H., San Francisco, Cal. Automobile-radiator. No. 1,006,747; Oct. 24; Sp. p. 4811; Gaz. vol. 171; p. 855.
Graham, James M., New York, N. Y., assignor to Elevator Supply & Repair Company. Elevator signaling apparatus. No. 991,973; May 9; Sp. p. 2429; Gaz. vol. 166; p. 432.
Graham, James S., assignor of one-half to O. F. H. Redemann, Magdalena, N. Mex. Tenon-joint fastener. No. 1,001,265; Aug. 22; Sp. p. 4435; Gaz. vol. 169; p. 807.
Graham, John, Philadelphia, Pa. Mouthpiece for sound-transmitters. No. 984,558; Feb. 21; Sp. p. 2846; Gaz. vol. 163; p. 507.
Graham, John, assignor of one-third to J. W. Graham, Swissvale, Pa. Gas-meter seal. No. 986,818; Mar. 14; Sp. p. 2258; Gaz. vol. 164; p. 391.
Graham, John and A., Jr., Glasgow, and D. A. Graham, Rutherglen, Scotland. Reducing-valve. No. 986,165; Mar. 7; Sp. p. 850; Gaz. vol. 164; p. 137.
Graham, John C., assignor to Engine Room Specialty Co., Lake Providence, La. Miter-box. No. 1,013,010; Dec. 26; Sp. p. 5832; Gaz. vol. 173; p. 1020.
Graham, John L., Reynoldsville, Pa., assignor to Wickes Brothers, Saginaw, Mich. Gang-saw mill. No. 1,000,510; Aug. 15; Sp. p. 2764; Gaz. vol. 169; p. 512.
Graham, John L., Reynoldsville, Pa., assignor to Wickes Brothers, Saginaw, Mich. Gang-saw mill. No. 1,002,675; Sept. 5; Sp. p. 1088; Gaz. vol. 170; p. 164.
Graham, John W. (See Graham, John, assignor.)
Graham, Joseph H., Kempton, Ind. Fence-post mold. No. 988,460; Apr. 4; Sp. p. 359; Gaz. vol. 165; p. 59.
Graham, Mary A., administratrix. (See Graham, Miles G.)
Graham, Michael J., assignor to J. H. Thompson, Cleveland, Ohio. Holder for iced beverages. No. 1,009,406; Nov. 21; Sp. p. 3997; Gaz. vol. 172; p. 691.
Graham, Miles G., deceased, Albany, N. Y.; M. A. Graham, administratrix. Phonograph-horn. No. 1,002,205; Aug. 29; Sp. p. 6401; Gaz. vol. 169; p. 1153.
Graham, Orville A., assignor to W. C. Graham, Chicago, Ill. Oil-cup. No. 1,001,389; Aug. 22; Sp. p. 4718; Gaz. vol. 169; p. 851.
Graham, Patrick H., Sacramento, assignor of one-half to J. H. Hannah, Colusa, Cal. Stovepipe-joint. No. 984,086; Feb. 14; Sp. p. 1821; Gaz. vol. 163; p. 313.
Graham, Richard W., Winnipeg, Manitoba, Canada. Compasses. No. 988,188; Mar. 28; Sp. p. 5167; Gaz. vol. 164; p. 916.
Graham, Robert S. and H. C., St. Joseph, Mo. Means for normally holding and automatically releasing curtains. No. 985,995; Mar. 7; Sp. p. 524; Gaz. vol. 164; p. 83.
Graham, Roy L., Greeneville, Tenn. Saddle-stirrup. No. 982,810; Jan. 31; Sp. p. 5783; Gaz. vol. 162; p. 1018.
Graham, Thomas. (See Baum, Albert E., assignor.)
Graham, Thomas F., *et al.* (See Gage, Charles M., assignor.)
Graham, Walter J., White Mills, Pa. Cooking utensil. No. 980,246; Jan. 3; Sp. p. 132; Gaz. vol. 162; p. 26.
Graham, Werter O., Hattiesburg, Miss. Plumb rule and level. No. 988,705; Apr. 4; Sp. p. 905; Gaz. vol. 165; p. 143.
Graham, William C. (See Graham, Orville A., assignor.)
Graham, William S., assignor to Warner Brothers Co., Bridgeport, Conn. Buckle. No. 990,127; Apr. 18; Sp. p. 3916; Gaz. vol. 165; p. 676.
Graham, William S., assignor to Parlin and Orendorff Company, Canton, Ill. Gang-plow. No. 992,495; May 16; Sp. p. 3583; Gaz. vol. 166; p. 643.
Graham, William S., assignor to Parlin and Orendorff Company, Canton, Ill. Gang-plow. No. 992,496; May 16; Sp. p. 3585; Gaz. vol. 166; p. 643.
Graham, William S., assignor to Parlin and Orendorff Company, Canton, Ill. Gang-plow. No. 992,497; May 16; Sp. p. 3587; Gaz. vol. 166; p. 644.
Graham, William S., assignor to Parlin and Orendorff Company, Canton, Ill. Gang-plow. No. 992,714; May 16; Sp. p. 4023; Gaz. vol. 166; p. 718.
Graham, William S., assignor to Parlin and Orendorff Company, Canton, Ill. Spreader-arch for cultivators. No. 1,000,511; Aug. 15; Sp. p. 2770; Gaz. vol. 169; p. 512.
Graham, William S., assignor to Parlin & Orendorff Company, Canton, Ill. Disk furrow-opener. No. 1,002,207; Aug. 29; Sp. p. 6405; Gaz. vol. 169; p. 1154.
Graham, Willie, New Orleans, La., assignor to Orleans Dry Kiln & Stacker Co. Lumber-stacking device. No. 983,891; Feb. 14; Sp. p. 1384; Gaz. vol. 163; p. 248.
Graham, Willie, New Orleans, La., assignor to Orleans Dry Kiln & Stacker Co. Lumber-stacker. No. 983,892; Feb. 14; Sp. p. 1393; Gaz. vol. 163; p. 248.
Graham-Woodward, Robert, assignor to Hercules Suspension Tire Company, New York, N. Y. Spring-wheel. No. 981,414; Jan. 10; Sp. p. 2845; Gaz. vol. 162; p. 459.
Grahl, Gustav de, Wilmersdorf, near Berlin, Germany. Boiler-furnace. No. 980,772; Jan. 3; Sp. p. 1271; Gaz. vol. 162; p. 204.
Grahl, Gustav de, Zehlendorf, near Berlin, Germany. Fire-door for boiler-furnaces. No. 980,773; Jan. 3; Sp. p. 1272; Gaz. vol. 162; p. 204.

Alphabetical list of patentees—Continued.

Grahl, Gustav de, Zehlendorf, near Berlin, Germany. Steam-nozzle for steam-fan furnaces. No. 982,591; Jan. 24; Sp. p. 5314; Gaz. vol. 162; p. 916.
Grahl, Gustav de, Zehlendorf, near Berlin, Germany. Door-frame for locomotive-boiler furnaces. No. 990,254; Apr. 25; Sp. p. 4220; Gaz. vol. 165; p. 752.
Grahl, Herman F. (See Utz and Grahl.)
Grahl, Max C., assignor to Universelle Cigaretten-Maschinen-Industrie System Otto Bergstrasser, Alfred Klinge, Dresden-Löbtau, Germany. Tobacco-feeding device for cigarette-machines. No. 1,003,178; Sept. 12; Sp. p. 2190; Gaz. vol. 170; p. 376.
Grahn, Thorwald E., Cleveland, Ohio, assignor of one-third to L. Parish, New York, N. Y., and one-third to H. H. Vaughan, Montreal, Canada. Feed-water heater. No. 1,006,935; Oct. 24; Sp. p. 5247; Gaz. vol. 171; p. 923.
Grain Belt Car Specialty Company. (See Posson, Edward, assignor.)
Gramlich, Joseph C. (See Rosenberger, Valentine C., assignor.)
Gran, Albert, and J. H. Karlson, assignors to Designers Rule Co., Chicago, Ill. Curve-scriber. No. 989,547; Apr. 11; Sp. p. 2677; Gaz. vol. 165; p. 449.
Grand Crossing Tack Company. (See Vail, Walter J., assignor.)
Grand Rapids Brass Co. (See Tower, Daniel W., assignor.) (Reissue.)
Grand Rapids Fireless Cookstove Company. (See Merrill, Eugene A., assignor.)
Grand Rapids Refrigerator Company. (See Leonard, Harry C., assignor.)
Grand Rapids Refrigerator Company. (See Whittier, Walter H., assignor.)
Grand Rapids Show Case Company. (See Vanderveld, Anthony, assignor.)
Grandage, Philip. (See Barker, Dean, Grandage, and Jackson.)
Grange, Joseph S. (See Cox and Grange.)
Granger, Almon M., Medford, Mass., assignor to General Fire Extinguisher Company, New York, N. Y. Automatic sprinkler system. No. 994,255; June 6; Sp. p. 316; Gaz. vol. 167; p. 55.
Granger, Amédée, New Orleans, La. X-ray frame. No. 983,360; Feb. 7; Sp. p. 226; Gaz. vol. 163; p. 38.
Granger, Bruno, Rochester, N. Y. Oil-cake press. No. 985,583; Feb. 28; Sp. p. 5064; Gaz. vol. 163; p. 895.
Granger, Edson, Watkins, N. Y. Combined lock and latch. No. 980,630; Jan. 3; Sp. p. 967; Gaz. vol. 162; p. 158.
Granstrom, David, Omaha, Nebr. Mold. No. 996,983; July 4; Sp. p. 823; Gaz. vol. 168; p. 132.
Grant, Adolphus S., Houston, Tex. Focusing device for cameras. No. 983,047; Jan. 31; Sp. p. 6318; Gaz. vol. 162; p. 1098.
Grant, Alexander, Beeville, Tex. Hammer. No. 985,027; Feb. 21; Sp. p. 3790; Gaz. vol. 163; p. 669.
Grant, Allan C., St. George, New Brunswick, Canada. Acetylene-gas generator. No. 993,360; May 30; Sp. p. 5428; Gaz. vol. 166; p. 1001.
Grant, Charles, Salisbury, Md. Tension-adjusting mechanism for governors. No. 1,013,088; Dec. 26; Sp. p. 5989; Gaz. vol. 173; p. 1048.
Grant, Charles C., Red Deer, Alberta, Canada. System of laying out stair-rails. No. 995,863; June 20; Sp. p. 3878; Gaz. vol. 167; p. 673.
Grant, David F., *et al.* (See Tucker, Clarence E., assignor.)
Grant, Edwin J. (See Crowley and Grant.)
Grant, Eugene P. (See McDermott, William, assignor.)
Grant, Harry A., Boston, Mass. Plug-operated means for washbasins or the like. No. 991,974; May 9; Sp. p. 2434; Gaz. vol. 166; p. 433.
Grant, Harry C., Bayonne, N. J. Truck. No. 1,001,587; Aug. 22; Sp. p. 5079; Gaz. vol. 169; p. 915.
Grant, Hugh D., Weiser, Idaho. Draft-equalizer. No. 1,010,253; Nov. 28; Sp. p. 5707; Gaz. vol. 172; p. 1020.
Grant Manufacturing & Machine Company, The. (See Kingsbury, Jere G., assignor.)
Grant, Samuel M. O., Pittsburg, Pa. Electric-light switch for telephone-booths. No. 987,357; Mar. 21; Sp. p. 3374; Gaz. vol. 164; p. 606.
Grant, Wilburn C. (See Jones and Grant.)
Grant, Wilburn C., Abilene, Tex. Heading-machine. No. 994,831; June 13; Sp. p. 1619; Gaz. vol. 167; p. 292.
Grantland, John W., Cincinnati, Ohio. Reversible stop and check valve. No. 1,007,560; Oct. 31; Sp. p. 6618; Gaz. vol. 171; p. 1193.
Granulator Soap Company. (See Dilg and Fowler, assignors.)
Granville, Andrew J. (See Kindleberger and Granville.)
Grashin, Max, assignor to The Selig Polyscope Company, Chicago, Ill. Connecting device for the doors of film-cabinets. No. 990,810; Apr. 25; Sp. p. 5483; Gaz. vol. 165; p. 944.
Grasmuk, Henry, East Orange, assignor to Bippart, Griscom & Osborn, Newark, N. J. Guard for brooch-pin tongues. No. 986,381; Mar. 7; Sp. p. 1315; Gaz. vol. 164; p. 212.
Grass, Harry. (See Bernadou, Andrew H., assignor.)
Grasselly, Adrian, New York, N. Y. Antiseptic spoon. No. 1,011,613; Dec. 12; Sp. p. 2763; Gaz. vol. 173; p. 462.
Gratigny, Ralph K., Edgewater, assignor of one-half to W. Kelley, Jr., Newark, N. J., and one-half to W. D. True, New York, N. Y. Acetylene-gas generator. No. 997,618; July 11; Sp. p. 2118; Gaz. vol. 168; p. 377.
Grauel, Edwin L., assignor to Troy Telephone Specialty Company, Troy, N. Y. Hood-support for cable-terminals. No. 981,637; Jan. 17; Sp. p. 3282; Gaz. vol. 162; p. 557.
Grauheding, Oscar, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Telescope gun-sight. No. 1,004,416; Sept. 26; Sp. p. 4898; Gaz. vol. 170; p. 863.
Grauhering, Oskar. (See Korrodi and Grauhering.)
Graul, Franz, Vienna, Austria-Hungary, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Level. No. 988,637; Apr. 4; Sp. p. 750; Gaz. vol. 165; p. 120.
Graule, Philip C., Rochester, Pa. Hair-crimper. No. 993,056; May 23; Sp. p. 4779; Gaz. vol. 166; p. 869.
Gravdahl, Ole, assignor to H. Levanger, Christiania, Norway. Means for reversing explosion-motors. No. 1,007,196; Oct. 31; Sp. p. 5845; Gaz. vol. 171; p. 1067.
Graves, Andrew R., Washington, D. C. Vehicle-spring. No. 1,002,055; Aug. 29; Sp. p. 6109; Gaz. vol. 169; p. 1104.
Graves, Charles L., Milford, Conn., assignor, by mesne assignments, to Automatic Welding Machine Company. Machine for automatically manufacturing welded wire chains. No. 987,295; Mar. 21; Sp. p. 3248; Gaz. vol. 164; p. 586.
Graves, Edward A., Albion, Mich. Train-pipe coupling. No. 1,003,598; Sept. 19; Sp. p. 3086; Gaz. vol. 170; p. 556.
Graves, George W., assignor to C. W. Munz, Detroit, Mich. Round-top extension-table. No. 993,517; May 30; Sp. p. 5768; Gaz. vol. 166; p. 1054.
Graves, Henry J., Kensington, London, England. Wheel-rim. No. 1,013,011; Dec. 26; Sp. p. 5833; Gaz. vol. 173; p. 1020.
Graves, Henry L., Iowa Park, Tex. Farm-wagon scale. No. 995,131; June 13; Sp. p. 2255; Gaz. vol. 167; p. 393.
Graves, Lawrence H. (See Beeman and Graves.)
Graves, Richmond L. (See Crane and Graves.)
Graves, Richmond L., assignor of one-half to W. A. Hardwick, Memphis, Tenn. Pipe-coupling. No. 991,501; May 9; Sp. p. 1436; Gaz. vol. 166; p. 270.
Graves, Walter R., Wellington, Ala. Guano-distributer. No. 1,001,197; Aug. 22; Sp. p. 4303; Gaz. vol. 169; p. 785.
Gravity Coal Bin Company. (See Meissner, Otto W., assignor.)
Gravity Coal Bin Company. (See Snead, John M., assignor.)
Gravity Conveyor Company. (See Schwab, Martin C., assignor.)
Gravity Pasteurizer Company. (See Gille, Charles N., assignor.)
Gray, Alanson M., Elizabeth, N. J. Filter-press. No. 989,843; Apr. 18; Sp. p. 3337; Gaz. vol. 165; p. 582.
Gray, Alexander M., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 982,811; Jan. 31; Sp. p. 5784; Gaz. vol. 162; p. 1018.
Gray, Alexander M., Milwaukee, Wis., assignor to Allis-Chalmers Company. Back-geared motor. No. 983,361; Feb. 7; Sp. p. 228; Gaz. vol. 163; p. 39.
Gray, Alexander M., Milwaukee, Wis., assignor to Allis-Chalmers Company. Induction-motor. No. 1,002,837; Sept. 12; Sp. p. 1457; Gaz. vol. 170; p. 258.
Gray, Alexander M., Milwaukee, Wis., assignor to Allis-Chalmers Company. Induction-motor. No. 1,011,944; Dec. 19; Sp. p. 3480; Gaz. vol. 173; p. 609.
Gray, Arthur T., *et al.*, trustees. (See Vose, Ambrose S., assignor.)
Gray, Bartlett S., executor. (See Gray, Stephen B.)
Gray, Charles F., Sierra Madre, Cal., assignor to The Singer Manufacturing Company. Binding attachment for sewing-machines. No. 985,257; Feb. 28; Sp. p. 4331; Gaz. vol. 163; p. 783.
Gray, Charles F., Sierra Madre, Cal., assignor to The Singer Manufacturing Company. Thread-controller for sewing-machines. No. 994,509; June 6; Sp. p. 837; Gaz. vol. 167; p. 140.
Gray, Charles F., Sierra Madre, Cal., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,000,797; Aug. 15; Sp. p. 3417; Gaz. vol. 169; p. 614.
Gray, Charles F., Sierra Madre, Cal., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,008,538; Nov. 14; Sp. p. 2061; Gaz. vol. 172; p. 352.
Gray, Cora E., Battle Creek, Mich. Holder for cloth coverings of ironing-boards. No. 1,007,001; Oct. 24; Sp. p. 5381; Gaz. vol. 171; p. 943.
Gray, D Webb, Little Falls, N. Y., assignor of one-half to J. D. Landes, Dexter, Mo. Photographic-printing apparatus. No. 989,502; Apr. 11; Sp. p. 2549; Gaz. vol. 165; p. 432.
Gray & Davis. (See Taylor and Elkins, assignors.)
Gray, Delia M., executrix. (See Gray, Elisha.)
Gray, Elisha, deceased; D. M. Gray, Highland Park, Ill., executrix, assignor to Submarine Signal Company, Waterville, Me. Transmission of sound. No. 985,524; Feb. 28; Sp. p. 4940; Gaz. vol. 163; p. 875.

Alphabetical list of patentees—Continued.

Gray, Elisha, deceased; D. M. Gray, Highland Park, Ill., executrix, assignor, by mesne assignments, to Submarine Signal Company. Transmission of sound. No. 989,250; Apr. 11; Sp. p. 2021; Gaz. vol. 165; p. 346.
Gray, Elisha B., Beaumont, Tex., assignor of one-third to P. R. Gray and one-third to J. L. Gray, Elizabeth, N. J. Apparatus for concentrating acid. No. 1,005,425; Oct. 10; Sp. p. 1865; Gaz. vol. 171; p. 330.
Gray, Ernest A., assignor to American Telephone and Telegraph Company, Boston, Mass. Method of and means for connecting telephone apparatus. No. 1,002,388; Sept. 5; Sp. p. 486; Gaz. vol. 170; p. 68.
Gray, Frederick O., Jamestown, Ohio. Fluid-governor. No. 1,010,747; Dec. 5; Sp. p. 780; Gaz. vol. 173; p. 122.
Gray, Gardner B., assignor to Gray-Thurber Automatic Train Control and Signal Company of America, Pittsburgh, Pa. Car-truck construction for electric-railway signal systems. No. 1,008,030; Nov. 7; Sp. p. 827; Gaz. vol. 172; p. 132.
Gray, George, assignor to Mianus Motor Works, Mianus, Conn. Muffler. No. 984,212; Feb. 14; Sp. p. 2096; Gaz. vol. 163; p. 356.
Gray, George, assignor to Mianus Motor Works, Mianus, Conn. Gas-producer head. No. 984,213; Feb. 14; Sp. p. 2097; Gaz. vol. 163; p. 356.
Gray, George, assignor to Mianus Motor Works, Mianus, Conn. Igniter. No. 987,800; Mar. 28; Sp. p. 4314; Gaz. vol. 164; p. 785.
Gray, George C. G., Bryn Mawr, Pa. Automatic balance-draft appliance. No. 988,935; Apr. 4; Sp. p. 1346; Gaz. vol. 165; p. 216.
Gray, George L., West Palmbeach, Fla. Grass-twine machine. No. 1,010,360; Nov. 28; Sp. p. 5934; Caz. vol. 172; p. 1056.
Gray, Harold, Accrington, England. Electrical oven. No. 1,001,637; Aug. 29; Sp. p. 5195; Gaz. vol. 169; p. 963.
Gray, J. L., *et al.* (See Gray, Elisha B., assignor.)
Gray, James, *et al.* (See Thatcher, Thomas J., assignor.)
Gray, James A., San Francisco, Cal. Assembling mechanism for can bodies and heads. No. 994,456; June 6; Sp. p. 723; Gaz. vol. 167; p. 124.
Gray, James A., San Francisco, Cal. Can-heading machine. No. 1,002,389; Sept. 5; Sp. p. 491; Gaz. vol. 170; p. 69.
Gray, James A., San Francisco, Cal. Machine for uniting can bodies and heads. No. 1,010,617; Dec. 5; Sp. p. 486; Gaz. vol. 173; p. 76.
Gray, James H. (See Walker and Gray.)
Gray, James H., New York, N. Y., assignor to Illinois Steel Company, Chicago, Ill. Manufacture of steel. No. 987,715; Mar. 28; Sp. p. 4137; Gaz. vol. 164; p. 757.
Gray, James M., Atlanta, Ga. Guide bracket or rail for edgewise-movable doors. No. 995,960; June 20; Sp. p. 4063; Gaz. vol. 167; p. 707.
Gray, Matthew, Kingston-upon-Hull, assignor to Hargreaves Bros. and Co., Limited, Hull, England. Receptacle. No. 983,437; Feb. 7; Sp. p. 382; Gaz. vol. 163; p. 63.
Gray Motor Company. (See Kreis, Oscar C., Jr., assignor.)
Gray Motor Company. (See Nageborn, William E., assignor.)
Gray, Niel, Jr., and D. T. Wadhams, Oswego, N. Y.; said Wadhams assignor to said Gray. Paper-cutting machine. No. 996,327; June 27; Sp. p. 4912; Gaz. vol. 167; p. 866.
Gray, P. R., *et al.* (See Gray, Elisha B., assignor.)
Gray, Paul E., Sauk Center, Minn. Litter-carrier holdfast. No. 1,012,628; Dec. 26; Sp. p. 4947; Gaz. vol. 173; p. 890.
Gray, Robert B., Port Carbon, Pa. Pneumatic tire. No. 1,005,960; Oct. 17; Sp. p. 3061; Gaz. vol. 171; p. 550.
Gray, Stephen, Calumet, Okla. Apparatus for actuating water-motors. No. 1,002,676; Sept. 5; Sp. p. 1091; Gaz. vol. 170; p. 164.
Gray, Stephen B., deceased, Jacksonville, Ill.; B. S. Gray, executor. Motor-vehicle. No. 1,012,841; Dec. 26; Sp. p. 5434; Gaz. vol. 173; p. 964.
Gray, Stephen B., deceased, Jacksonville, Ill.; B. S. Gray, executor. Motor-vehicle. No. 1,012,842; Dec. 26; Sp. p. 5442; Gaz. vol. 173; p. 964.
Gray, Thomas B. (See Roche and Ray, assignors.)
Gray, Thomas B., Pittsburg, Pa. Annealing-box. No. 994,995; June 13; Sp. p. 1987; Gaz. vol. 167; p. 347.
Gray, Thomas J., assignor of three-fourths to C. A. Bookwalter and T. Taggart, Indianapolis, C. Fairbanks, Terre Haute, and R. G. Hemingray, Muncie, Ind. Machine for picking cotton. No. 999,714; Aug. 1; Sp. p. 1017; Gaz. vol. 169; p. 176.
Gray, Thomas W., Woodville, Pa. Water-elevating apparatus. No. 1,000,169; Aug. 8; Sp. p. 2019; Gaz. vol. 169; p. 361.
Gray-Thurber Automatic Train Control and Signal Company of America. (See Gray, Gardner B., assignor.)
Gray, Vance I., assignor to The F. Bissell Company, Toledo, Ohio. Alternating-current motor and controlling device therefor. No. 987,979; Mar. 28; Sp. p. 4760; Gaz. vol. 164; p. 849.
Gray, William. (See Chamberlain and Troop, assignors.)
Gray, William C., Philadelphia, Pa. Street-indicator for railway-cars. No. 1,003,897; Sept. 19; Sp. p. 3695; Gaz. vol. 170; p. 658.
Gray, William J., *et al.* (See Ledford, Edward, assignor.)
Graybill, Henry C., Altoona, Pa. Harness-suspending device. No. 987,980; Mar. 28; Sp. p. 4761; Gaz. vol. 164; p. 849.
Graybill, John E., York, Pa. Connection-box for electric conduits. No. 988,461; Apr. 4; Sp. p. 361; Gaz. vol. 165; p. 59.
Grean, Alexandre M., New York, N. Y. Combination armscye pad. No. 1,004,017; Sept. 26; Sp. p. 4019; Gaz. vol. 170; p. 727.
Greason, Herbert, Ridgewood, N. J. Combination cover and dish-drainer. No. 1,001,520; Aug. 22; Sp. p. 4943; Gaz. vol. 169; p. 893.
Greathead, John F., Rome, N. Y. Dam. No. 1,010,254; Nov. 28; Sp. p. 5708; Gaz. vol. 172; p. 1020.
Greaves, Klusman & Co. (See Greaves, William A., assignor.)
Greaves, William A., assignor to Greaves, Klusman & Co., Cincinnati, Ohio. Tail-stock. No. 1,005,538; Oct. 10; Sp. p. 2101; Gaz. vol. 171; p. 370.
Greaves, William A., assignor to Greaves, Klusman & Co., Cincinnati, Ohio. Gearing. No. 1,010,748; Dec. 5; Sp. p. 783; Gaz. vol. 173; p. 122.
Grebe, Albert. (See Saegmuller and Grebe.)
Greco, Frank P., New York, N. Y. Mold for rings. No. 984,659; Feb. 21; Sp. p. 5063; Gaz. vol. 163; p. 542.
Greeley Manufacturing Company, The. (See Carr, Dox W., assignor.)
Green, Albert, Westalton, Mo. Means for protecting river-banks. No. 1,005,113; Oct. 3; Sp. p. 1155; Gaz. vol. 171; p. 195.
Green, Buel H., Los Angeles, Cal. Turnbuckle. No. 1,003,355; Sept. 12; Sp. p. 2560; Gaz. vol. 170; p. 441.
Green, Carl R., assignor to The National Vacuum Cleaning Company, Dayton, Ohio. Separator-tank for vacuum cleaning systems. No. 984,810; Feb. 21; Sp. p. 3383; Gaz. vol. 163; p. 596.
Green, Charles, New York, N. Y. Sample-book. No. 1,009,507; Nov. 21; Sp. p. 4214; Gaz. vol. 172; p. 725.
Green, Charles M., deceased; N. F. Green, administratrix, Grand Forks, N. C. Shocking-tool. No. 984,761; Feb. 21; Sp. p. 3288; Gaz. vol. 163; p. 579.
Green, Charles M., Lynn, Mass., assignor to General Electric Company. Wireless telegraphy. No. 996,580; June 27; Sp. p. 5444; Gaz. vol. 167; p. 952.
Green, Charles M., Lynn, Mass., assignor to General Electric Company. Vapor-rectifier system. No. 996,848; July 4; Sp. p. 510; Gaz. vol. 168; p. 84.
Green, David N., Sunbury, Ohio. Rotary engine. No. 985,584; Feb. 28; Sp. p. 5066; Gaz. vol. 163; p. 895.
Green, David N., Sunbury, Ohio. Rotary engine. No. 985,669; Feb. 28; Sp. p. 5225; Gaz. vol. 163; p. 923.
Green, Eugene, San Marcos, Tex. Wrench. No. 985,028; Feb. 21; Sp. p. 3791; Gaz. vol. 163; p. 669.
Green Fuel Economizer Company, The. (See Ross and Blackburn, assignors.)
Green, Furney F., Coalgate, Okla. Hoe attachment for cultivators. No. 994,151; June 6; Sp. p. 94; Gaz. vol. 167; p. 18.
Green, George F., Toronto, and A. W. Lawrence, Collingwood, Ontario, Canada. Brush. No. 998,500; July 18; Sp. p. 4125; Gaz. vol. 168; p. 731.
Green, George W. (See Wilson and Green.)
Green, George W., Bobin, New South Wales, Australia. Variable-diameter brace-bit for boring wood. No. 994,457; June 6; Sp. p. 725; Gaz. vol. 167; p. 124.
Green, Henry, Hartford, Conn. Anode for X-ray tubes. No. 1,002,390; Sept. 5; Sp. p. 498; Gaz. vol. 170; p. 69.
Green, Hosea J., Chattanooga, Tenn. Draft-controlling device. No. 995,251; June 13; Sp. p. 2490; Gaz. vol. 167; p. 431.
Green, James J., Houston, Tex. Ironing-machine. No. 996,404; June 27; Sp. p. 5104; Gaz. vol. 167; p. 894.
Green, James W., Portland, Oreg. Combined friction drive and brake mechanism. No. 989,777; Apr. 18; Sp. p. 3183; Gaz. vol. 165; p. 559.
Green, John, assignor of one-half to M. Green, Oakland, and one-half to M. Green, Turlock, Cal. Plow. No. 1,012,254; Dec. 19; Sp. p. 4179; Gaz. vol. 173; p. 717.
Green, John C., North Braddock, Pa. Hook. No. 988,088; Mar. 28; Sp. p. 4992; Gaz. vol. 164; p. 885.
Green, John R., Dalhart, Tex., assignor of one-half to P. Kilduff, Chicago, Ill. Headlight-shade. No. 998,501; July 18; Sp. p. 4126; Gaz. vol. 168; p. 731.
Green, Jonathan S., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Turbine-blade shroud. No. 1,010,749; Dec. 5; Sp. p. 785; Gaz. vol. 173; p. 123.
Green, Jonathan S., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Turbine-blade shroud. No. 1,010,750; Dec. 5; Sp. p. 786; Gaz. vol. 173; p. 123.
Green, Jordan H., Jackson, Mich. Car-door lock. No. 1,011,945; Dec. 19; Sp. p. 3482; Gaz. vol. 173; p. 610.
Green, Joseph G., Oakland, Cal. Selling device. No. 1,011,946; Dec. 19; Sp. p. 3484; Gaz. vol. 173; p. 610.

Alphabetical list of patentees—Continued.

Green, Louis G., assignor to R. M. Green & Sons, Philadelphia, Pa. Dispensing apparatus. No. 1,003,449; Sept. 19; Sp. p. 2751; Gaz. vol. 170; p. 504.
Green, Louis L., administrator. (See Tanner, John A.)
Green, Maud, *et al.* (See Green, John, assignor.)
Green, Melvin, *et al.* (See Green, John, assignor.)
Green, Michael J., assignor to Eclipse Gas Stove Company, Rockford, Ill. Gas-range. No. 982,205; Jan. 17; Sp. p. 4479; Gaz. vol. 162; p. 751.
Green, Nellie F., administratrix. (See Green, Charles M.)
Green, Perry J., Asheville, N. C. Curtain and shade support. No. 1,002,838; Sept. 12; Sp. p. 1458; Gaz. vol. 170; p. 259.
Green, Porter E., Portland, Oreg. Gain-cutter. No. 997,252; July 4; Sp. p. 1370; Gaz. vol. 168; p. 225.
Green, Ralph E., E. Coulson, Lackawanna, and W. J. Callahan, Buffalo, N. Y. Pile-puller. No. 1,011,614; Dec. 12; Sp. p. 2763; Gaz. vol. 173; p. 462.
Green, Robert C., Winchester, England. Valve. No. 987,571; Mar. 21; Sp. p. 3807; Gaz. vol. 164; p. 678.
Green, Samuel A. (See Zwerdling and Green.)
Green & Sons, Robert M. (See Green, Louis G., assignor.)
Green, T. F., *et al.* (See Allard, Andrew J., assignor.)
Green, Thomas W., Philadelphia, Pa. Rotary blower. No. 994,311; June 6; Sp. p. 423; Gaz. vol. 167; p. 73.
Green, Thomas W., Philadelphia, Pa. Rotary blower. No. 1,004,776; Oct. 3; Sp. p. 493; Gaz. vol. 171; p. 81.
Green, Warren L., New York, and W. S. Eaton, Sag Harbor, N. Y., assignors to American Bank Note Company. Time-recorder. No. 986,457; Mar. 14; Sp. p. 1484; Gaz. vol. 164; p. 268.
Green, William, Colts Neck, N. J. Toy. No. 997,666; July 11; Sp. p. 2228; Gaz. vol. 168; p. 394.
Green, William A., Pratt City, Ala. Brake mechanism. No. 1,003,251; Sept. 12; Sp. p. 2353; Gaz. vol. 170; p. 404
Green, William A., Collingswood, assignor to New York Shipbuilding Company, Camden, N. J. Hatch construction. No. 1,005,426; Oct. 10; Sp. p. 1867; Gaz. vol. 171; p. 330.
Green, William F., Modesto, and C. W. Lineker, Oakland, Cal. Pivot-light. No. 996,405; June 27; Sp. p. 5106; Gaz. vol. 167; p. 894.
Green, William H., Colorado Springs, Colo. Wheel construction. No. 1,004,417; Sept. 26; Sp. p. 4899; Gaz. vol. 170; p. 863.
Green, William W., Niles, Mich. Flying-machine. No. 999,448; Aug. 1; Sp. p. 507; Gaz. vol. 169; p. 88.
Greenamyer, Arthur S., and A. Hallett, Los Angeles, Cal. Aeroplane. No. 1,008,258; Nov. 7; Sp. p. 1311; Gaz. vol. 172; p. 215.
Greenbaum, George E. (See Ritchel, Charles F., assignor.)
Greenburg, Joseph, Boston, Mass. Car-ventilator. No. 992,956; May 23; Sp. p. 4572; Gaz. vol. 166; p. 834.
Greene, Ambrose E., Pueblo, Colo. Rotary engine. No. 984,904; Feb. 21; Sp. p. 3551; Gaz. vol. 163; p. 627.
Greene, Ambrose E., Pueblo, Colo. Rotary engine. No. 1,007,866; Nov. 7; Sp. p. 509; Gaz. vol. 172; p. 76.
Greene, Austin E. (See Condit and Greene.)
Greene, Austin E., South Boston, assignor to S. B. Condit, Jr., Boston, Mass. Automatic circuit-breaker. No. 986,708; Mar. 14; Sp. p. 2018; Gaz. vol. 164; p. 354.
Greene, David R., Chicago, Ill. Condiment for Welsh rabbits. No. 999,217; Aug. 1; Sp. p. 53; Gaz. vol. 169; p. 11.
Greene, Frank C. and O. V., Cleveland, Ohio; said O. V. Greene assignor to said Frank C. Greene. Car-dumping mechanism. No. 988,462; Apr. 4; Sp. p. 363; Gaz. vol. 165; p. 59.
Greene, Frank C., Cleveland, and C. G. Palmer, East Cleveland, Ohio; said Palmer assignor to said Greene. Automatic car-dumping mechanism. No. 1,005,961; Oct. 17; Sp. p. 3063; Gaz. vol. 171; p. 551.
Greene, Frederick R. (See Fournia, John, assignor.)
Greene, George W., Watertown, assignor to Shawmut Tire Company, Boston, Mass. Valve-base for pneumatic tires. No. 995,961; June 20; Sp. p. 4064; Gaz. vol. 167; p. 707.
Greene, Harry S. (See Praray and Greene.)
Greene, Jacob W., Chillicothe, Mo., assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Dental impression-tray. No. 987,063; Mar. 14; Sp. p. 2730; Gaz. vol. 164; p. 472.
Greene, John S., Rochester, N. Y., assignor, by mesne assignments, to Commercial Camera Company, Providence, R. I. Photographic-print-handling device. No. 1,001,019; Aug. 22; Sp. p. 3941; Gaz. vol. 169; p. 725.
Greene, John S., Rochester, N. Y., assignor, by mesne assignments, to Commercial Camera Company, Providence, R. I. Photographic-print-handling device. No. 1,001,020; Aug. 22; Sp. p. 3944; Gaz. vol. 169; p. 725.
Greene, Oscar V. (See Greene, Frank C. and O. V.)
Greene, Tweed & Co. (See Wilcox, Henry, assignor.)
Greene, Wallace, Washington, D. C Bag-fastener. No. 982,178; Jan. 17; Sp. p. 4433; Gaz. vol. 162; p. 742.
Greene, Wiley N., Wayside, Ga. Time-operated apparatus for feeding live stock. No. 998,502; July 18; Sp. p. 4128; Gaz. vol. 168; p. 732.
Greene, William B., Natick, Mass. Making soles. No. 1,008,640; Nov. 14; Sp. p. 2308; Gaz. vol. 172; p. 390.
Greenebaum, Abraham H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Detachable snap-fastener stud. No. 993,518; May 30; Sp. p. 5770; Gaz. vol. 166; p. 1054.
Greenebaum, Abraham H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Machine for setting snap-fastener studs. No. 1,004,018; Sept. 26; Sp. p. 4019; Gaz. vol. 170; p. 727.
Greenfield, Edwin T., Kiamesha, N. Y. Hose. No. 995,453; June 20; Sp. p. 2960; Gaz. vol. 167; p. 528.
Greenfield, Edwin T., Kiamesha, N. Y. Hose. No. 1,001,842; Aug. 29; Sp. p. 5649; Gaz. vol. 169; p. 1034.
Greenfield, Edwin T., Kiamesha, N. Y. Tubing. No. 1,009,964; Nov. 28; Sp. p. 5123; Gaz. vol. 172; p. 923.
Greenhill, David, Watford, England. Printing machinery. No. 991,845; May 9; Sp. p. 2176; Gaz. vol. 166; p. 388.
Greenhood, Rudolph, Los Angeles, Cal. Invoice-file and transfer-binder. No. 994,312; June 6; Sp. p. 426; Gaz. vol. 167; p. 73.
Greenlaw Manufacturing Co., The. (See Greenlaw, Warren A., assignor.)
Greenlaw, Warren A., Melrose, Mass. Lamp-dimming device for motor-cars. No. 1,005,197; Oct. 10; Sp. p. 1339; Gaz. vol. 171; p. 248.
Greenlaw, Warren A., Melrose, Mass. Lamp-controlling device for motor-cars. No. 1,007,688; Nov. 7; Sp. p. 67; Gaz. vol. 172; p. 12.
Greenlaw, Warren A., Melrose Highlands, assignor to The Greenlaw Manufacturing Co., Boston, Mass. Rotary pipe-joint. No. 993,774; May 30; Sp. p. 6343; Gaz. vol. 166; p. 1143.
Greenlaw, Warren A., Melrose Highlands, assignor to The Greenlaw Manufacturing Co., Boston, Mass. System of train-pipe connections. No. 1,001,588; Aug. 22; Sp. p. 5081; Gaz. vol. 169; p. 915.
Greenleaf, George E., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Car-wheel lathe. No. 987,227; Mar. 21; Sp. p. 3099; Gaz. vol. 164; p. 562.
Greenleaf, George E., and F. S. Thompson, Plainfield, assignors to Niles-Bement-Pond Company, Jersey City, N. J. Tail-stock clamp. No. 1,006,205; Oct. 17; Sp. p. 3616; Gaz. vol. 171; p. 637.
Greenleaf, Louis A., Dorchester, Mass. Speedometer. No. 1,011,051; Dec. 5; Sp. p. 1422; Gaz. vol. 173; p. 226.
Greenleaf, Rupert L. (See Close, Edmund E., assignor.)
Greenlee Bros. & Company. (See Edwards, Daniel W., assignor.)
Greenlee, Harry R. (See Sheldon, William J., assignor.)
Greenlee, Herbert, Chitwood, Mo. Gravel-scraper. No. 1,000,258; Aug. 8; Sp. p. 2204; Gaz. vol. 169; p. 392.
Greenlee, Mont, Point Pleasant, W. Va. Burner. No. 1,012,199; Dec. 19; Sp. p. 4066; Gaz. vol. 173; p. 698.
Greenlund, John, Union City, Pa. Hose-coupling. No. 996,079; June 27; Sp. p. 4316; Gaz. vol. 167; p. 783.
Greeno, Ida J., administratrix. (See Piper, Edwin S.)
Greenough, William H. (See Rettinger, Robert G., assignor.)
Greenpoint Metallic Bed Company. (See Holden, George, assignor.)
Greenstreet, Jason H., Indianapolis, Ind. Wire-bound-box machine. No. 985,996; Mar. 7; Sp. p. 526; Gaz. vol. 164; p. 83.
Greenstreet, Jason H., Indianapolis, Ind. Wire-bound-box machine. No. 991,716; May 9; Sp. p. 1928; Gaz. vol. 166; p. 346.
Greenwald, Guy P. (See Gossett, William, assignor.)
Greenwood, Fred H. (See Moores, Charles H., assignor.)
Greenwood, George A., Springfield, Mass. Type-writer ribbon mechanism. No. 996,016; June 20; Sp. p. 4173; Gaz. vol. 167; p. 726.
Greenwood, George A., Springfield, Mass., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 995,669; June 20; Sp. p. 3438; Gaz. vol. 167; p. 606.
Greenwood, Herbert. (See Lavarack and Greenwood.)
Greenwood, James, London, England. Process and apparatus for the electrolytic decomposition of alkaline salts. No. 984,905; Feb. 21; Sp. p. 3555; Gaz. vol. 163; p. 628.
Greenwood, John, Macksville, Kans. Sputum-cup. No. 994,918; June 13; Sp. p. 1830; Gaz. vol. 167; p. 322.
Greenwood, Joseph. (See Barker and Greenwood.)
Greenwood, Thomas, Halifax, England. Wheel-cutting machine. No. 1,008,031; Nov. 7; Sp. p. 831; Gaz. vol. 172; p. 132.
Greer, Benjamin J., Athens, Tex. Nut-lock. No. 982,947; Jan. 31; Sp. p. 6096; Gaz. vol. 162; p. 1064.
Greer, Len, Fullerton, La. Saw-swage. No. 996,757; July 4; Sp. p. 320; Gaz. vol. 168; p. 54.
Greer, Samuel. (See Freer and Greer.)
Greer, Ulysses S., assignor of one-half to Proximity Manufacturing Company, Greensboro, N. C. Lubricator for engines. No. 996,922; July 4; Sp. p. 669; Gaz. vol. 168; p. 110.
Greer, William A., and D. L. Turner, Coalinga, Cal. Calf-wheel for oil-wells. No. 1,013,012; Dec. 26; Sp. p. 5834; Gaz. vol. 173; p. 1021.
Greffin, Philipp, Waverly, Iowa. Car-buffer. No. 1,002,263; Sept. 5; Sp. p. 173; Gaz. vol. 170; p. 22.
Gregg, Albert H., Upper Montclair, N. J. Box-fastener. No. 1,010,618; Dec. 5; Sp. p. 488; Gaz. vol. 173; p. 76.

Alphabetical list of patentees—Continued.

Gregg, Frank M., Cleveland, Ohio. Drying edible pastes. No. 1,007,940; Nov. 7; Sp. p. 662; Gaz. vol. 172; p. 103.
Gregg, Robert B., *et al.* (See Froehlich, Max, assignor.)
Gregg, Walter S., Kansas City, Mo. Pump. No. 1,011,340; Dec. 12; Sp. p. 2137; Gaz. vol. 173; p. 365.
Gregg, William T. (See Carey, Joseph H., assignor.)
Gregory, Benjamin F., Lewistown, Pa. Street-sweeping machine. No. 1,000,798; Aug. 15; Sp. p. 3420; Gaz. vol. 169; p. 615.
Gregory, Eugene, Michigan City, Ind., assignor, by mesne assignments, to National Fresh Air Furniture Company, Reno, Nev. Folding bed or couch. No. 1,010,493; Dec. 5; Sp. p. 206; Gaz. vol. 173; p. 34.
Gregory, Eugene, Michigan City, Ind., assignor, by mesne assignments, to National Fresh Air Furniture Company, Reno, Nev. Spring-bed-bottom fabric. No. 1,011,052; Dec. 5; Sp. p. 1425; Gaz. vol. 173; p. 226.
Gregory, Friend H., Philadelphia, Pa. Combined letter-sheet and envelop. No. 994,458; June 6; Sp. p. 727; Gaz. vol. 167; p. 124.
Gregory, Harry B., Lansing, Mich. Tooth for bridgework and crown-work. No. 1,010,896; Dec. 5; Sp. p. 1104; Gaz. vol. 173; p. 173.
Gregory, Irving, Sparta township, Kent county, Mich. Horticultural implement. No. 1,011,947; Dec. 19; Sp. p. 3485; Gaz. vol. 173; p. 610.
Gregory, James, Burnley, assignor to Platt Bros. & Co., Ltd., Hartford Works, Oldham, England. Guard for spinning and doubling frames. No. 982,667; Jan. 24; Sp. p. 5462; Gaz. vol. 162; p. 942.
Gregory, James A., Plantersville, Miss. Folding umbrella. No. 998,503; July 18; Sp. p. 4129; Gaz. vol. 168; p. 732.
Gregory, Marshal J., Sour Lake, Tex. Fence-post foundation. No. 994,742; June 13; Sp. p. 1411; Gaz. vol. 167; p. 262.
Gregory, Thomas M., Akron, Ohio. Toy balloon. No. 1,008,641; Nov. 14; Sp. p. 2310; Gaz. vol. 172; p. 390.
Gregory, Wade L., Cross Hill, S. C. Railway-spike protector. No. 982,592; Jan. 24; Sp. p. 5315; Gaz. vol. 162; p. 916.
Gregson, Stephen E., Newark, N. J. Workman's supporting-block. No. 994,459; June 6; Sp. p. 728; Gaz. vol. 167; p. 125.
Greider, John H., *et al.* (See Shoemaker, Harry C., assignor.)
Grein, William C. (See Fox and Grein.)
Greiner, Charles, New Haven, Conn. Machine for straightening and cutting wire. No. 998,087; July 18; Sp. p. 3230; Gaz. vol. 168; p. 584.
Greiner, Emilie, Hoboken, N. J. Feather-renovator. No. 983,549; Feb. 7; Sp. p. 638; Gaz. vol. 163; p. 100.
Greiser, Louis, Berlin, Germany. Purifying cocoa. No. 1,004,870; Oct. 3; Sp. p. 700; Gaz. vol. 171; p. 114.
Greist Manufacturing Company, The. (See Boyler, Emanuel J., assignor.)
Greist Manufacturing Company, The. (See Greist and Beckert, assignors.)
Greist Manufacturing Company, The. (See Humeston, Frederick L., assignor.)
Greist Manufacturing Company, The. (See Parsons, Winslow R., assignor.)
Greist, Percy R., and F. W. Beckert, New Haven, Conn., assignors to The Greist Manufacturing Company. Sewing-machine ruffler. No. 983,048; Jan. 31; Sp. p. 6320; Gaz. vol. 162; p. 1099.
Grell, Henry J., Johnson Creek, Wis. Cream-ripener. No. 990,352; Apr. 25; Sp. p. 4443; Gaz. vol. 165; p. 786.
Grenier, Oscar, Boulogne-on-the-Seine, France. Non-pneumatic elastic tire for vehicle-wheels. No. 1,005,962; Oct. 17; Sp. p. 3070; Gaz. vol. 171; p. 551.
Grenninger, Thomas B., Denver, Colo. Clasp. No. 989,844; Apr. 18; Sp. p. 3338; Gaz. vol. 165; p. 582.
Grenzebach, Charles, Birmingham, Ohio. Game apparatus. No. 994,671; June 6; Sp. p. 1206; Gaz. vol. 167; p. 196.
Greth, John C. W. (See Woods and Greth.)
Greth, John C. W., assignor to Wm. B. Scaife & Sons Company, Pittsburg, Pa. Chemical feeder and saturator. No. 996,923; July 4; Sp. p. 670; Gaz. vol. 168; p. 110.
Greulich, Edward C., and T. G. Steinke, Milwaukee, Wis. Stretcher for leather or analogous material. No. 988,331; Apr. 4; Sp. p. 88; Gaz. vol. 165; p. 16.
Greusel, Joseph. (See Greusel, Nicholas P., assignor.)
Greusel, Nicholas P., Ionia, assignor of one-half to J. Greusel, Detroit, Mich. Bed-sheet and mattress retainer. No. 1,012,629; Dec. 26; Sp. p. 4949; Gaz. vol. 173; p. 890.
Greuter, August. (See Bosshard, Arnold, assignor.)
Greuter, Charles R., Saugus, Mass. Valve mechanism for explosion-engines. No. 987,801; Mar. 28; Sp. p. 4316; Gaz. vol. 164; p. 786.
Greve, Andrew, Potter, Wis. Self-feeder for feed-cutters. No. 992,869; May 23; Sp. p. 4374; Gaz. vol. 166; p. 803.
Grever, Edward C., Cincinnati, Ohio. Steam-diffusing device for pressing-machines. No. 1,000,597; Aug. 15; Sp. p. 2982; Gaz. vol. 169; p. 545.
Grey, Charles M., East Orange, N. J., assignor to New York Steel Beam & Girder Company, New York, N. Y. Indicating and adjusting mechanism. No. 997,619; July 11; Sp. p. 2123; Gaz. vol. 168; p. 378.
Grey, Henry, assignor to American Universal Mill Company, New York, N. Y. Solid-rolled cross-sectionally-H-shaped metal bar or structural section. No. 993,242; May 23; Sp. p. 5164; Gaz. vol. 166; p. 928.
Gribben, John C., Lakewood, Ohio. Hose-coupling. No. 1,002,264; Sept. 5; Sp. p. 175; Gaz. vol. 170; p. 22.
Grice, Frederick W., assignor to Broderick & Bascom Rope Company, St. Louis, Mo. Tramway-grip. No. 1,007,561; Oct. 31; Sp. p. 6620; Gaz. vol. 171; p. 1194.
Gridley, Adelbert C. (See Eklund and Gridley.)
Gridley, Charles C., Columbus, Ohio. Clothes-washing device. No. 999,218; Aug. 1; Sp. p. 54; Gaz. vol. 169; p. 11.
Gridley, Fred H., Longbeach, assignor of forty-five one-hundredths to North American Dredging Co. of Nevada, Los Angeles, Cal. Hydraulic dredging apparatus. No. 996,237; June 27; Sp. p. 4690; Gaz. vol. 167; p. 836.
Gridley, George O., Windsor, Vt. Universal chuck. No. 992,957; May 23; Sp. p. 4574; Gaz. vol. 166; p. 835.
Gridley, George O., Windsor, Vt. Machine-tool. No. 1,012,630; Dec. 26; Sp. p. 4950; Gaz. vol. 173; p. 890.
Gridley, Henry H., Holyoke, Mass. Helicopter. No. 1,012,631; Dec. 26; Sp. p. 4954; Gaz. vol. 173; p. 891.
Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Overseaming sewing-machine. No. 982,717; Jan. 24; Sp. p. 5564; Gaz. vol. 162; p. 958.
Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,002,265; Sept. 5; Sp. p. 176; Gaz. vol. 170; p. 22.
Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Trimming mechanism for sewing-machines. No. 1,005,643; Oct. 10; Sp. p. 2365; Gaz. vol. 171; p. 405.
Grieb, Alfred, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Overseaming sewing-machine. No. 1,011,187; Dec. 12; Sp. p. 1771; Gaz. vol. 173; p. 309.
Griep, Anthony B., Aurora, Mo. Automobile speed-regulator. No. 981,080; Jan. 10; Sp. p. 2073; Gaz. vol. 162; p. 342.
Grière, Charles, Grevenbroich, Germany. Directly converting sugar syrups into crystallized sugar of agreeable taste. No. 988,261; Mar. 28; Sp. p. 5311; Gaz. vol. 164; p. 940.
Grierson, James, Toronto, Ontario, Canada. Nest-box. No. 997,189; July 4; Sp. p. 1244; Gaz. vol. 168; p. 202.
Grierson, Robert W. (See Hoy and Downes, assignors.)
Griesemer, Morris A., Alameda, Cal. Necktie. No. 982,948; Jan. 31; Sp. p. 6097; Gaz. vol. 162; p. 1065.
Griesinger, John, Los Angeles, Cal. Binding device for loose-leaf books. No. 1,004,777; Oct. 3; Sp. p. 497; Gaz. vol. 171; p. 82.
Griesinger, John G., assignor to Western Loose-Leaf Manufacturing Company, Los Angeles, Cal. Loose-leaf binder. No. 982,593; Jan. 24; Sp. p. 5316; Gaz. vol. 162; p. 916.
Grieve Grate Company, The. (See Grieve, Thomas, assignor.)
Grieve, Thomas, Perth Amboy, N. J., assignor to The Grieve Grate Company, New York, N. Y. Grate. No. 1,002,200; Aug. 29; Sp. p. 6392; Gaz. vol. 169; p. 1152.
Griffee, Charles C., Bismarck, N. D. Type-writer attachment. No. 981,415; Jan. 10; Sp. p. 2849; Gaz. vol. 162; p. 460.
Griffen, Ira. (See Kendrick, John W., assignor.)
Griffen, Spencer B., Amityville, N. Y. Wheel for vehicles. No. 998,893; July 25; Sp. p. 5026; Gaz. vol. 168; p. 902.
Griffin, Carlos P. (See Schraubstadter, Richard T., assignor.)
Griffin, Edwin F. (See Tanner and Griffin.)
Griffin, George A., New York, N. Y. Attachment for trial-frames. No. 1,002,580; Sept. 5; Sp. p. 893; Gaz. vol. 170; p. 132.
Griffin, George G. (See Arnold, Charles E., assignor.)
Griffin, Henry W., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Signaling system for railways. No. 1,000,401; Aug. 15; Sp. p. 2532; Gaz. vol. 169; p. 473.
Griffin, Henry W., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Signaling system for railways. No. 1,000,402; Aug. 15; Sp. p. 2535; Gaz. vol. 169; p. 473.
Griffin, James J., San Francisco, Cal., assignor of one-half to G. M. Peacock, Melbourne, Australia. Air-tight joint for tins containing alimentary and other substances. No. 987,572; Mar. 21; Sp. p. 3808; Gaz. vol. 164; p. 678.
Griffin, John, Melrose, Iowa. Joint-fastener for railway rails and ties. No. 1,011,341; Dec. 12; Sp. p. 2139; Gaz. vol. 173; p. 365.
Griffin, Judson M. (See Kay, Alfred H., assignor.)
Griffin, Maurice A., Buffalo, N. Y. Folding crate. No. 992,189; May 16; Sp. p. 2876; Gaz. vol. 166; p. 536.
Griffin, Melvern B., *et al.* (See Febiger, Henry B., assignor.)
Griffin, Robert B., New York, N. Y. Wall-paper. No. 986,054; Mar. 7; Sp. p. 638; Gaz. vol. 164; p. 103.
Griffin, Robert B., New York, N. Y. Wall-paper. (Reissue.) No. 13,267; July 11; Sp. p. 2887; Gaz. vol. 168; p. 492.

Alphabetical list of patentees—Continued.

Griffin, Thomas B. (See Mason and Griffin.)
Griffin, Thomas H. (See Becker, Allen J., assignor.)
Griffin Wheel Company. (See Vial, Frederick K., assignor.)
Griffin, William H., assignor of one-fourth to J. O. Lathem, one-eighth to H. J. Clark, and one-eighth to J. D. Van Scoten, Columbus, Ohio. Envelop. No. 982,594; Jan. 24; Sp. p. 5318; Gaz. vol. 162; p. 917.
Griffin, Wilson T., North East, Pa. Bean-sorting machine. No. 1,011,188; Dec. 12; Sp. p. 1773; Gaz. vol. 173; p. 309.
Griffing, Charles E., Los Angeles, Cal. Explosive. No. 991,057; May 2; Sp. p. 468; Gaz. vol. 166; p. 82.
Griffing, Charles E., Salt Lake City, Utah, assignor to The Griffing Electrical Steam Boiler Co., Birmingham, Ala. Electric steam-generator. No. 995,132; June 13; Sp. p. 2257; Gaz. vol. 167; p. 393.
Griffing, Charles F., Chicago, Ill. Antislipping device for horseshoes. No. 1,009,240; Nov. 21; Sp. p. 3609; Gaz. vol. 172; p. 630.
Griffing Electrical Steam Boiler Co., The. (See Griffing, Charles E., assignor.)
Griffith, Benjamin W. (See Swafford, Levi W., assignor.)
Griffith, Charles A., Pruden, Tenn. Mine-car-dumping apparatus. No. 982,426; Jan. 24; Sp. p. 4966; Gaz. vol. 162; p. 859.
Griffith, Eli H. (See Stone and Griffith.)
Griffith, George W. (See Hodges, John F. C., assignor.)
Griffith, John W., Greenfield, Tenn. Automatic fire-alarm. No. 986,279; Mar. 7; Sp. p. 1088; Gaz. vol. 164; p. 175.
Griffith, Llewellyn A., assignor to G. D. Campbell and R. P. Smith, Buffalo, N. Y. Folding carriage. No. 991,150; May 2; Sp. p. 687; Gaz. vol. 166; p. 117.
Griffith, Nathan B., Philadelphia, Pa. Clean-out plunger. No. 990,977; May 2; Sp. p. 316; Gaz. vol. 166; p. 55.
Griffith, Nathan B., Philadelphia, Pa. Clean-out plunger. No. 1,004,161; Sept. 26; Sp. p. 4397; Gaz. vol. 170; p. 778.
Griffith, Raymond W., Milwaukee, Wis. Massaging implement. No. 996,924; July 4; Sp. p. 673; Gaz. vol. 168; p. 110.
Griffith, Richard H. (See Idris and Griffith.)
Griffith, Robert M., Hampton, Ga. Rail-joint support. No. 999,159; July 25; Sp. p. 5575; Gaz. vol. 168; p. 991.
Griffith, Robert W., New York, N. Y. Treatment of chrome-tanned leather. No. 996,080; June 27; Sp. p. 4318; Gaz. vol. 167; p. 783.
Griffith, Sadie M., Cloverdale, Ind. Skirt-gage and hem-regulator. No. 1,002,581; Sept. 5; Sp. p. 896; Gaz. vol. 170; p. 132.
Griffith, William, West Pittston, Pa. Mining. No. 1,004,418; Sept. 26; Sp. p. 4901; Gaz. vol. 170; p. 864.
Griffith, William, Scranton, Pa. Mining. No. 1,004,419; Sept. 26; Sp. p. 4903; Gaz. vol. 170; p. 864.
Griffith, William J., Oliver Springs, Tenn. Log-dam. No. 990,978; May 2; Sp. p. 317; Gaz. vol. 166; p. 55.
Griffiths, Douglas, assignor of one-third to W. R. Wilthew, London, England. Apparatus for delivering measured quantities of liquor. No. 1,004,019; Sept. 26; Sp. p. 4022; Gaz. vol. 170; p. 727.
Griffiths, George J., Woodstock, assignor to The Olivér Typewriter Company, Chicago, Ill. Auxiliary support for type-writer shift-frames. No. 984,906; Feb. 21; Sp. p. 3558; Gaz. vol. 163; p. 628.
Griffiths, George J., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Connecting a relatively thin arm to a rock-shaft. No. 993,057; May 23; Sp. p. 4780; Gaz. vol. 166; p. 869.
Griffiths, George J., and C. Roderick, Woodstock, assignors to The Oliver Typewriter Company, Chicago, Ill. Bell-ringing mechanism for type-writing machines. No. 984,907; Feb. 21; Sp. p. 3560; Gaz. vol. 163; p. 629.
Griffiths, Leonard L., Bedford, Ind. Belt-fastening. No. 987,716; Mar. 28; Sp. p. 4138; Gaz. vol. 164; p. 757.
Griffiths, William U., Philadelphia, Pa. Air-compressing apparatus. No. 1,011,189; Dec. 12; Sp. p. 1774; Gaz. vol. 173; p. 310.
Grigg, Edgar, *et al.* (See Nelson, Edward E., assignor.)
Griggs, Asa B. (See Kane and Griggs.)
Griggs, E. M., *et al.* (See Riley, Samuel L., assignor.)
Griggs, Stephen A., trustee. (See Mabee, Charles R., assignor.)
Grigsby, Redman W. W., Los Angeles, Cal. Electric-current-shunting device. No. 1,008,326; Nov. 14; Sp. p. 1520; Gaz. vol. 172; p. 278.
Grilk, Louis, assignor to Lasher Manufacturing Company, Davenport, Iowa. Pot-cover. No. 993,163; May 23; Sp. p. 5009; Gaz. vol. 166; p. 904.
Grill, Anthony, Tordberga, Sweden. Continuous-acting centrifugal machine. No. 1,002,677; Sept. 5; Sp. p. 1093; Gaz. vol. 170; p. 165.
Grimes Automatic Gas Regulator Company. (See Grimes, Harry C., assignor.)
Grimes, Calvin C., Newnan, Ga. Animal-poke. No. 985,798; Mar. 7; Sp. p. 62; Gaz. vol. 164; p. 14.
Grimes, Charles D., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register and indicator. No. 987,131; Mar. 21; Sp. p. 2860; Gaz. vol. 164; p. 527.
Grimes, Harry C., Terra Alta, assignor to Grimes Automatic Gas Regulator Company, Elkins, W. Va. Cut-off for gas-lines. No. 1,000,799; Aug. 15; Sp. p. 3422; Gaz. vol. 169; p. 615.
Grimes, Howard. (See Smith, Russell, Anderson, and Grimes.)
Grimes, James B., assignor of one-half to N. M. Stanley, Dayton, Ohio. Box. No. 994,996; June 13; Sp. p. 1988; Gaz. vol. 167; p. 348.
Grimm, Louis, and I. Paul, New York, N. Y. Meat-curing apparatus. No. 994,919; June 13; Sp. p. 1831; Gaz. vol. 167; p. 322.
Grimm, Oscar, San Pedro, assignor of one-fourth to C. S. Keon, Los Angeles, Cal. Ticket-indicator box and cash-drawer. No. 995,962; June 20; Sp. p. 4065; Gaz. vol. 167; p. 708.
Grimm, Philip H., and F. S. Dhooge, Ashland, Wis. Ratchet-head and lever therefor. No. 987,132; Mar. 21; Sp. p. 2869; Gaz. vol. 164; p. 527.
Grimme Natalis & Co., Kommandit-Gesellschaft auf Aktien, Braunschweig. (See Werner and Trinks, assignors.)
Grimsdale, William H., Twickenham, assignor to Grimsdale's Patents Limited, London, England. Apparatus for copying music-sheets. No. 985,258; Feb. 28; Sp. p. 4333; Gaz. vol. 163; p. 783.
Grimsdale's Patents Limited. (See Grimsdale, William H., assignor.)
Grimshaw, John T., and L. R. Wellington, Rialto, Cal. Door-hanger for car-doors. No. 1,003,252; Sept. 12; Sp. p. 2354; Gaz. vol. 170; p. 404.
Grimsley, James W., Washington, D. C. Music-turner. No. 991,613; May 9; Sp. p. 1695; Gaz. vol. 166; p. 311.
Grimson, Samuel, New York, N. Y. Glass dry cleanser. No. 995,785; June 20; Sp. p. 3706; Gaz. vol. 167; p. 646.
Grimson, Samuel, New York, N. Y. Glass dry cleaner. No. 997,447; July 11; Sp. p. 1762; Gaz. vol. 168; p. 320.
Grimwade, Leonard L., Wolstanton, England. Teapot, coffee-pot, and other infusing vessel. No. 986,458; Mar. 14; Sp. p. 1490; Gaz. vol. 164; p. 268.
Grimwood, Oscar. (See Tichenor and Grimwood.)
Grinden Art Metal Company. (See Parish, Harold F., assignor.)
Grindle, William W. (See Sweeny and Grindle.)
Grindrod, Albert B. (See Hutchinson and Grindrod.)
Grindrod, John, Bakersfield, Cal. Rotary engine. No. 994,313; June 6; Sp. p. 428; Gaz. vol. 167; p. 74.
Grindrod, John, Bakersfield, Cal. Pump. No. 996,984; July 4; Sp. p. 825; Gaz. vol. 168; p. 132.
Grine, Harry A., assignor of one-third to F. C. Nelles, Los Angeles, and one-third to G. R. Harrison, San Diego, Cal. Means for making producer-gas from liquid hydrocarbons. No. 1,013,013; Dec. 26; Sp. p. 5838; Gaz. vol. 173; p. 1021.
Griner, Alvah A., Chicago, Ill. Massage implement. No. 1,005,024; Oct. 3; Sp. p. 995; Gaz. vol. 171; p. 166.
Grinewezki, Wassily, Moscow, Russia. Combustion-motor with reciprocating piston. No. 1,006,476; Oct. 24; Sp. p. 4224; Gaz. vol. 171; p. 760.
Grinham, Fredrick. (See Robinson and Grinham.)
Grinke, Adolph, St. Louis, Mo. Ice-box. No. 986,917; Mar. 14; Sp. p. 2464; Gaz. vol. 164; p. 426.
Grinke, Pauline H., St. Louis, Mo. Non-refillable bottle. No. 982,268; Jan. 24; Sp. p. 4628; Gaz. vol. 162; p. 803.
Grinnell, Harold D., Pittsfield, Mass. Electric gas-lighter. No. 1,010,897; Dec. 5; Sp. p. 1106; Gaz. vol. 173; p. 173.
Grip Nut Company. (See Pearson, John, assignor.)
Grissel, Walter R., and H. S. Josselyn, Cedar Rapids, Iowa. Plate-glass setting. No. 981,189; Jan. 10; Sp. p. 2306; Gaz. vol. 162; p. 381.
Grissom, Abraham J., Yeager, Okla. Folding square. No. 987,873; Mar. 28; Sp. p. 4467; Gaz. vol. 164; p. 811.
Griswold, Giles H., Tennessee, and S. Griswold, Camp Point, Ill. Combined bookcase. No. 984,479; Feb. 14; Sp. p. 2630; Gaz. vol. 163; p. 444.
Griswold, Irving L., Chicago, Ill. Leveling instrument. No. 1,000,512; Aug. 15; Sp. p. 2771; Gaz. vol. 169; p. 512.
Griswold, Matthew, Jr., Erie, Pa. Coffee-pot. No. 1,000,513; Aug. 15; Sp. p. 2773; Gaz. vol. 169; p. 513.
Griswold, Samuel. (See Griswold, Giles H. and S.)
Griswold, Thomas, Jr., Midland, Mich. Electrolytic cell. No. 987,717; Mar. 28; Sp. p. 4140; Gaz. vol. 164; p. 757.
Grivolas, Claude, Paris, France. Clock-pendulum having alternating rotary movement. No. 991,717; May 9; Sp. p. 1932; Gaz. vol. 166; p. 347.
Grizzell, Emery C., Claflin, Kans. Transmission friction-clutch. No. 1,001,140; Aug. 22; Sp. p. 4196; Gaz. vol. 169; p. 768.
Grizzle, Thomas J., Nancy, Va. Hog-ringer. No. 1,011,053; Dec. 5; Sp. p. 1426; Gaz. vol. 173; p. 227.
Groah, Samuel W., assignor of one-half to E. D. Robertson, Wilkie, Va. Railway-chair. No. 982,949; Jan. 31; Sp. p. 6099; Gaz. vol. 162; p. 1065.
Groat, Charles, E. Croasdale, Troy, and F. A. Tolhurst, New York, N. Y. Centrifugal machine. No. 1,005,963; Oct. 17; Sp. p. 3071; Gaz. vol. 171; p. 551.
Grob, Hugo, Zurich, Switzerland. Electric car-lighting system. No. 994,510; June 6; Sp. p. 838; Gaz. vol. 167; p. 141.

Alphabetical list of patentees—Continued.

Grochau, Augustus E., Eau Claire, Wis. Latch. No. 980,413; Jan. 3; Sp. p. 481; Gaz. vol. 162; p. 83.
Grodin, M. (See Jachimovicz, Szymon, assignor.)
Groebl, Albert F., St. Louis, Mo. Combined spark-plug holder and priming-cup. No. 1,004,250; Sept. 26; Sp. p. 4572; Gaz. vol. 170; p. 809.
Groebli, Joseph A., assignor to Kursheedt Manufacturing Co., New York, N. Y. Embroidery-machine. No. 996,238; June 27; Sp. p. 4691; Gaz. vol. 167; p. 836.
Groene, William F. (See Le Blond and Groene.)
Groene, William F., and H. C. Pierle, Cincinnati, Ohio, assignors to R. K. Le Blond Machine Tool Company. **Hob-grinding attachment. No. 998,088; July 18; Sp. p.** 3232; Gaz. vol. 168; p. 584.
Groening, Charles W., New York, N. Y. Gas-light attachment. No. 992,654; May 16; Sp. p. 3911; Gaz. vol. 166; p. 697.
Groff, David A. (See Plank and Groff.)
Groffman, Henry E. (See Riebel, George T., assignor.)
Grogan, James J., and O. E. Johnson, South Bend, Ind. Loom shuttle-check. No. 985,585; Feb. 28; Sp. p. 5069; Gaz. vol. 163; p. 895.
Grogan, Walter R. (See Mason and Donnelly, assignors.)
Grogg, Isaac. (See Raber and Grogg.)
Grogg, Isaac, Auburn, assignor to Ideal Concrete Machinery Company, South Bend, Ind. Scraper for block-machines. No. 986,459; Mar. 14; Sp. p. 1491; Gaz. vol. 164; p. 269.
Groh, Jacob B., assignor of one-half to J. M. Hawthorne, Seattle, Wash. Rotary engine. No. 1,006,546; Oct. 24; Sp. p. 4404; Gaz. vol. 171; p. 787.
Grohmann, Carl L. (See Hanson and Grohmann.)
Grohmann, Carl L., assignor to Pratt & Whitney Company, Hartford, Conn. Head-clamping mechanism. No. 983,225; Jan. 31; Sp. p. 6656; Gaz. vol. 162; p. 1157.
Grohowsky, John, Plymouth, Pa. Electric-fuse cartridge. No. 988,873; Apr. 4; Sp. p. 1228; Gaz. vol. 165; p. 196.
Groléas, Ferdinand, Lyon, France. Cycle-lock. No. 1,000,800; Aug. 15; Sp. p. 3425; Gaz. vol. 169; p. 616.
Gröndahl, Wilhelm A., assignor of one-third to J. W. Hill and one-third to E. W. Barnes, Portland, Oreg. Machine for felling trees. No. 1,002,678; Sept. 5; Sp. p. 1096; Gaz. vol. 170; p. 165.
Gröndal Kjellin Company, The. (See Rodenhauser, Wilhelm, assignor.)
Gronek, John, Philadelphia, Pa. Automatic mail-carrier. No. 1,001,021; Aug. 22; Sp. p. 3946; Gaz. vol. 169; p. 726.
Groome, Stephen W., Wortley, England. Weighing-machine. No. 1,012,632; Dec. 26; Sp. p. 4956; Gaz. vol. 173; p. 891.
Groot, Charles W., Boston, Mass. Anchor for combs. No. 988,770; Apr. 4; Sp. p. 1036; Gaz. vol. 165; p. 165.
Grosdidier, René, Commercy, France. Horseshoe-clip-forming machine. No. 981,999; Jan. 17; Sp. p. 4098; Gaz. vol. 162; p. 683.
Groset, John P., Bothell, Wash. Ice-cream-cone-cooking apparatus. No. 1,010,619; Dec. 5; Sp. p. 489; Gaz. vol. 173; p. 76.
Gross, Albert, Bad-Ems, Germany. Propeller for dirigible balloons. No. 1,008,965; Nov. 14; Sp. p. 2984; Gaz. vol. 172; p. 497.
Gross, Arthur A., Des Moines, Iowa. Reversible spring. No. 1,001,390; Aug. 22; Sp. p. 4720; Gaz. vol. 169; p. 851.
Gross, Charles E., Durbin, W. Va. Broom-handle. No. 987,981; Mar. 28; Sp. p. 4763; Gaz. vol. 164; p. 849.
Gross, Edward H., Kenmare, N. D. Hanger. No. 994,511; June 6; Sp. p. 841; Gaz. vol. 167; p. 141.
Gross, Elmer S. (See Gross, George H. and E. S.)
Gross, Frederick H., Plymouth, assignor of one-half to W. E. Gross, West Pittston, Pa. Device for razors. No. 990,858; May 2; Sp. p. 66; Gaz. vol. 166; p. 14.
Gross, George H. and E. S., Harrisburg, Pa. Shank for tang-driven tools or tool-sockets. No. 990,545; Apr. 25; Sp. p. 4907; Gaz. vol. 165; p. 855.
Gross, Harvey C., and I. D. Siegfried, Wadsworth, Ohio. Account-file. No. 990,979; May 2; Sp. p. 320; Gaz. vol. 166; p. 55.
Gross, Henry C., assignor of one-half to F. Kirschner, St. Charles, Mo. Churn-dasher. No. 990,546; Apr. 25; Sp. p. 4908; Gaz. vol. 165; p. 856.
Gross, Joseph J., New York, N. Y. Safety device for elevators. No. 1,007,096; Oct. 31; Sp. p. 5599; Gaz. vol. 171; p. 1029.
Gross, William E. (See Gross, Frederick H., assignor.)
Grosscup, George, Ashland, Ohio. Comb. No. 986,918; Mar. 14; Sp. p. 2465; Gaz. vol. 164; p. 426.
Grosse, Herman G., and W. French, assignors to American Ironing Machine Co., Chicago, Ill. Ironing-machine. (Reissue.) No. 13,249; May 30; Sp. p. 7012; Gaz. vol. 166; p. 1258.
Grosskopf, Frank C., San Diego, Cal. Hinge. No. 1,001,141; Aug. 22; Sp. p. 4198; Gaz. vol. 169; p. 768.
Grossman, Louis. (See Hilton and Grossman.)
Grossmann, Albert, Brooklyn, N. Y. Lock-ring for rolls. No. 994,152; June 6; Sp. p. 96; Gaz. vol. 167; p. 19.
Grosso, Antone C. (See Gundaker, George, assignor.)
Grosvenor, Graham, New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Mechanical movement. No. 994,384; June 6; Sp. p. 593; Gaz. vol. 167; p. 101.
Grote, Ludwig, assignor to A. W. H. Vivian and G. L. Davies, London, England. Glass-blowing machine. No. 1,004,020; Sept. 26; Sp. p. 4024; Gaz. vol. 170; p. 728.
Grotenhuis, William J., Elkhart, Ind., assignor to Sanitary Steel Couch Company, Chicago, Ill. Bed or couch. No. 987,064; Mar. 14; Sp. p. 2731; Gaz. vol. 164; p. 472.
Grotenrath, Fred, Milwaukee, Wis. Telescopic ashes-elevator. No. 989,143; Apr. 11; Sp. p. 1785; Gaz. vol. 165; p. 310.
Grotkass, Johannes G., Bremen, and K. Schirm, Leipzig-Plagwitz, Germany. Meat-powder. No. 1,005,539; Oct. 10; Sp. p. 2102; Gaz. vol. 171; p. 370.
Grotnes, Charles, Chicago, Ill. Barrel-heading-up machine. No. 994,153; June 6; Sp. p. 97; Gaz. vol. 167; p. 19.
Grotzky, John H., Grand Island, Nebr. Apparatus for delivering and receiving mail. No. 998,504; July 18; Sp. p. 4130; Gaz. vol. 168; p. 732.
Grout, Frank L. (See Sprague, Frederick H., assignor.)
Grouvelle, Philippe J., E. H. Arquembourg, and L. J. Joret, Paris, France. Carbureter. No. 985,670; Feb. 28; Sp. p. 5227; Gaz. vol. 163; p. 923.
Grove, Claude D., Jefferson City, Mo. Recovering valuable metals and minerals from stream-beds. No. 1,008,539; Nov. 14; Sp. p. 2063; Gaz. vol. 172; p. 352.
Grove, Frank I., Larned, Kans. Harrow. No. 992,655; May 16; Sp. p. 3913; Gaz. vol. 166; p. 698.
Grove, John W., Frederick, Md. Draft attachment. No. 984,087; Feb. 14; Sp. p. 1823; Gaz. vol. 163; p. 314.
Grove, Walter R., Twickenham, England. Non-refillable bottle. No. 985,586; Feb. 28; Sp. p. 5070; Gaz. vol. 163; p. 896.
Grove, William E., New Freedom, assignor of one-half to H. G. Sieling, Railroad, Pa. Mirror-pivot. No. 1,002,201; Aug. 29; Sp. p. 6396; Gaz. vol. 169; p. 1152.
Grove, William H., assignor to The J. G. Brill Company, Philadelphia, Pa. Means for operating the doors and steps of passenger-cars. No. 993,361; May 30; Sp. p. 5429; Gaz. vol. 166; p. 1001.
Grover, Albert D., Malden, Mass., assignor to Société Générale de Coutellerie et Orfevrerie, Paris, France. Safety-razor. No. 1,008,966; Nov. 14; Sp. p. 2985; Gaz. vol. 172; p. 497.
Grover, Albert D., Malden, and E. E. Barber, Boston, Mass. Ejector for vending-machines. No. 982,812; Jan. 31; Sp. p. 5786; Gaz. vol. 162; p. 1019.
Grover, Frederick, assignor to The Forgrove Machinery Company Limited, Leeds, England. Machine for wrapping sweetmeats or other articles. No. 997,667; July 11; Sp. p. 2229; Gaz. vol. 168; p. 394.
Grover, George B., Lynn, Mass. Heel-building machine. No. 980,512; Jan. 3; Sp. p. 738; Gaz. vol. 162; p. 118.
Grover, Richard B. (See Rowland and Grover.)
Grover, Ronello A., Andover, Me. Skewer-making machine. No. 993,981; May 30; Sp. p. 6737; Gaz. vol. 166; p. 1212.
Grover, Vernon, Mina, S. D. Automobile sled. No. 999,160; July 25; Sp. p. 5577; Gaz. vol. 168; p. 992.
Grover, William E., Burt, Iowa. Coupling for pumps. No. 982,134; Jan. 17; Sp. p. 4356; Gaz. vol. 162; p. 728.
Groves, Edward C. (See Robinson, Benwell, Groves, and Harvey.)
Groves, Ira A., Waldo, Ark. Switch. No. 988,089; Mar. 28; Sp. p. 4993; Gaz. vol. 164; p. 885.
Groyen, Ferdinand, assignor to Groyen & Richtmann, Cologne, Germany. Type-writer for music. No. 1,002,266; Sept. 5; Sp. p. 181; Gaz. vol. 170; p. 23.
Groyen & Richtmann. (See Groyen, Ferdinand, assignor.)
Grubba, Anthony, Detroit, Mich. Window-shade and curtain-pole fixture. No. 984,214; Feb. 14; Sp. p. 2099; Gaz. vol. 163; p. 356.
Grubbs, Joseph F. (See Scott, Grubbs, and Goss.)
Grubbs, Robert E. L., San Joaquin, Cuba. Apparatus for treating grain. No. 997,992; July 18; Sp. p. 3012; Gaz. vol. 168; p. 550.
Grube, Harry A. W., Hamburg, Germany. Surgical apparatus for drying wounds or the like. No. 1,008,815; Nov. 14; Sp. p. 2674; Gaz. vol. 172; p. 449.
Gruber, Ferdinand, Vienna, Austria-Hungary. Hydraulic ram. No. 1,012,633; Dec. 26; Sp. p. 4958; Gaz. vol. 173; p. 891.
Gruber, Joseph, Tampa, Fla. Advertising device. No. 989,598; Apr. 18; Sp. p. 2814; Gaz. vol. 165; p. 497.
Gruber, Raymond L., Milwaukee, Wis. Water-jacketed cylinder for internal-combustion engines. No. 1,009,837; Nov. 28; Sp. p. 4882; Gaz. vol. 172; p. 881.
Gruendler, Gustav J., St. Louis, Mo. Combined refrigerator and display-case. No. 998,170; July 18; Sp. p. 3399; Gaz. vol. 168; p. 613.
Gruendler, Gustav J., St. Louis, Mo. Hinge. No. 1,002,391; Sept. 5; Sp. p. 499; Gaz. vol. 170; p. 69.
Gruenfeldt, Emil, assignor to The Baker Motor Vehicle Company, Cleveland, Ohio. Motor-vehicle. No. 987,358; Mar. 21; Sp. p. 3375; Gaz. vol. 164; p. 606.
Grumman, James R., Cambridge, Ohio. Self-soaping washboard. No. 1,005,704; Oct. 10; Sp. p. 2495; Gaz. vol. 171; p. 428.

Alphabetical list of patentees—Continued.

Grun, Willibald, Frankfort-on-the-Main, Germany. Cooling apparatus for turbo-compressors. No. 985,161; Feb. 28; Sp. p. 4115; Gaz. vol. 163; p. 749.
Grund, Charles, *et al.* (See Pecci, Pio N., assignor.)
Grundig, Max H., Chemnitz, Germany. Mechanical movement. No. 1,005,198; Oct. 10; Sp. p. 1341; Gaz. vol. 171; p. 248.
Grundy, David, D. R., and R. C., Clapham Common, England. Ported plug-valve for measured-liquid supply. No. 992,190; May 16; Sp. p. 2878; Gaz. vol. 166; p. 536.
Grundy, David R. (See Grundy, David, D. R., and R. C.)
Grundy, George, Pittsburgh, Pa. Mason's tool. No. 1,005,964; Oct. 17; Sp. p. 3073; Gaz. vol. 171; p. 552.
Grundy, Robert C. (See Grundy, David, D. R., and R. C.)
Grune, August H. M., Pirmasens, Germany. Boot-treeing apparatus. No. 1,009,965; Nov. 28; Sp. p. 5126; Gaz. vol. 172; p. 924.
Grune, August H. M., Pirmasens, Germany. Boot-tree for use in treeing-machines. No. 1,010,751; Dec. 5; Sp. p. 787; Gaz. vol. 173; p. 123.
Grunwald, Albert C., Maywood, Ill. Amusement device. No. 982,269; Jan. 24; Sp. p. 4629; Gaz. vol. 162; p. 803.
Grunwald, Carl, Bredeney, Germany. Electric induction-furnace. No. 980,940; Jan. 10; Sp. p. 1688; Gaz. vol. 162; p. 292.
Grünzweig, Max, Ludwigshafen-on-the-Rhine, Germany. Treatment of cork. No. 982,950; Jan. 31; Sp. p. 6100; Gaz. vol. 162; p. 1065.
Grünzweig, Max, Ludwigshafen-on-the-Rhine, Germany. Heating and molding subdivided cork. No. 997,056; July 4; Sp. p. 986; Gaz. vol. 168; p. 158.
Gruschow, Frank, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Faucet. No. 1,003,179; Sept. 12; Sp. p. 2192; Gaz. vol. 170; p. 376.
Grushlaw, Samuel. (See Neuman, Nathan, assignor.)
Gruskin, Morten S., New York, N. Y. Advertising-sign. No. 983,438; Feb. 7; Sp. p. 383; Gaz. vol. 163; p. 63.
Gruss, Lucien R., Chico, Cal., assignor to The Pneumatic Cushion Company, Phoenix, Ariz. Pneumatic cushion for vehicles. No. 985,162; Feb. 28; Sp. p. 4117; Gaz. vol. 163; p. 749.
Grüter, Reinhold, assignor to Chemische Werke vorm. Dr. Heinrich Byk, Charlottenburg, Germany. Making stable calcium perborate. No. 999,497; Aug. 1; Sp. p. 597; Gaz. vol. 169; p. 104.
Grützner, Carl, Tempelhof, near Berlin, Germany. Propulsion of ships and boats. No. 1,007,281; Oct. 31; Sp. p. 6013; Gaz. vol. 171; p. 1097.
Gruver, George W., Monterey, Cal. Wrench. No. 982,951; Jan. 31; Sp. p. 6101; Gaz. vol. 162; p. 1065.
Grzybowski, Walter, Green Bay, Wis. Rail-joint. No. 990,729; Apr. 25; Sp. p. 5314; Gaz. vol. 165; p. 916.
Gschwind, Carl E., *et al.* (See Gschwind, Leon, assignor.)
Gschwind, Leon, assignor of one-half to M. M. Gunlefinger and one-half to C. E. Gschwind, Youngstown, Ohio. Hot-air register. No. 996,581; June 27; Sp. p. 5448; Gaz. vol. 167; p. 952.
Guarantee Machine Company. (See De Bruyn, John C., assignor.)
Guay, Emile J., Lynn, Mass., assignor to General Electric Company. Arc-lamp electrode. No. 998,687; July 25; Sp. p. 4548; Gaz. vol. 168; p. 829.
Gubitz, William F., Hartford, Conn. Dental plugger. No. 1,001,638; Aug. 29; Sp. p. 5197; Gaz. vol. 169; p. 963.
Gubrud, Adolph P., Hudson, S. D. Automatic mixer and charger for gas-engines. No. 992,958; May 23; Sp. p. 4576; Gaz. vol. 166; p. 835.
Gudeman, Leo, New York, N. Y. Junction or terminal box. No. 990,353; Apr. 25; Sp. p. 4445; Gaz. vol. 165; p. 786.
Güdeman, Leo, New York, N. Y. Lamp-socket. No. 1,001,843; Aug. 29; Sp. p. 5650; Gaz. vol. 169; p. 1034.
Guder, Carl. (See Wilson and Guder.)
Gue, Harry D. (See Partridge and Gue.)
Guelich, Charles E., Chicago, Ill. Portable asphalt plant. No. 1,007,689; Nov. 7; Sp. p. 70; Gaz. vol. 172; p. 13.
Guéniffet, Julien, and J. Nicault, assignors to Societe Anonyme des Usines A. E. Decoufle, Paris, France. Cigarette and cigarette-tube with mouthpiece. No. 987,359; Mar. 21; Sp. p. 3378; Gaz. vol. 164; p. 607.
Guenther, Albert, Mount Horeb, Wis. Automatic cut-off governor. No. 1,008,642; Nov. 14; Sp. p. 2311; Gaz. vol. 172; p. 391.
Guentner, Julius, Milwaukee, Wis. Screen. No. 982,270; Jan. 24; Sp. p. 4630; Gaz. vol. 162; p. 803.
Gueovjian, John G., New York, N. Y. Lens. No. 1,003,599; Sept. 19; Sp. p. 3086; Gaz. vol. 170; p. 557.
Guernsey, Charles C., Derry, N. H., assignor of one-half to F. O. Libby, Lawrence, Mass. Nut-wrench. No. 999,988; Aug. 8; Sp. p. 1591; Gaz. vol. 169; p. 300.
Guernsey, William, Prosser, Wash. Mining-machine. No. 993,593; May 30; Sp. p. 5930; Gaz. vol. 166; p. 1080.
Guerrant, George M., assignor of one-third to W. R. Guerrant and one-third to J. O. Boatwright, Danville, Va. Arc-lamp. No. 996,849; July 4; Sp. p. 512; Gaz. vol. 168; p. 84.
Guerrant, George M. and W. R., Danville, assignors, by mesne assignments, to Virginia Patent Sales Corporation, Richmond, Va. Advertising device. No. 993,296; May 23; Sp. p. 5269; Gaz. vol. 166; p. 945.
Guerrant, William R., *et al.* (See Guerrant, George M., assignor.)
Guertin, Edward A., Trenton, N. J. Piano-footboard holder. No. 1,011,948; Dec. 19; Sp. p. 3486; Gaz. vol. 173; p. 611.
Guertin, Marcel I., Arctic Center, R. I. Alarm-clock. No. 1,005,540; Oct. 10; Sp. p. 2104; Gaz. vol. 171; p. 371.
Guess, H. A. (See Barker, William M., assignor.)
Guess, Harry A. (See Hoyle and Guess.)
Guest, Albert A., and W. P. Gibbons, Lower Gornal, England. Machine for discharging and charging gas-retorts. No. 1,009,739; Nov. 28; Sp. p. 4671; Gaz. vol. 172; p. 848.
Guetschoff, Herman C., Fraser, Mich. Safety-razor. No. 991,151; May 2; Sp. p. 690; Gaz. vol. 166; p. 117.
Guett, Monroe, assignor to The Hart and Hegeman Manufacturing Company, Hartford, Conn. Insulating-cover for electric switches. No. 981,553; Jan. 10; Sp. p. 3105; Gaz. vol. 162; p. 506.
Guevara, Rosendo L. de, Vera Cruz, Mexico. Boiler-disincrustating compound. No. 991,975; May 9; Sp. p. 2436; Gaz. vol. 166; p. 433.
Gugler, Julius H., Milwaukee, Wis. Battery-connector. No. 1,005,199; Oct. 10; Sp. p. 1343; Gaz. vol. 171; p. 248.
Guilbault, George, assignor of one-third to A. D. Danziger, New Orleans, La. Noiseless railway-crossing. No. 1,002,679; Sept. 5; Sp. p. 1099; Gaz. vol. 170; p. 165.
Guild, Walter B., Roxbury, Mass. Vacuum cleaning implement. No. 1,012,634; Dec. 26; Sp. p. 4961; Gaz. vol. 173; p. 892.
Guiley, Robert P., Akron, Ohio. Combined ozone generator and inhaling apparatus. No. 996,850; July 4; Sp. p. 513; Gaz. vol. 168; p. 85.
Guilford, William C. J., Washington, D. C. Pump. No. 1,005,200; Oct. 10; Sp. p. 1347; Gaz. vol. 171; p. 249.
Guillaume, Emile, Blida, Algeria. Purification of alcohol and similar liquids. No. 992,498; May 16; Sp. p. 3588; Gaz. vol. 166; p. 644.
Guillaume, Emile, Paris, France. Device for automatically regulating the flow of the head products or other condensation products proceeding from distilling and rectifying apparatus. No. 994,672; June 6; Sp. p. 1208; Gaz. vol. 167; p. 197.
Guillaume, Emile, Paris, France. Process and apparatus for the rectification of crude petroleum and other volatile liquids. No. 996,081; June 27; Sp. p. 4319; Gaz. vol. 167; p. 783.
Guillaume, Emile, Paris, France. Distillation of alcoholic liquids. No. 996,328; June 27; Sp. p. 4921; Gaz. vol. 167; p. 867.
Guilleaume, Otto, Neustadt-on-the-Hardt, Germany. Water-tube boiler. No. 1,011,190; Dec. 12; Sp. p. 1777; Gaz. vol. 173; p. 310.
Guindon, Jean B. A., assignor of one-half to I. Belair, Montreal, Quebec, Canada. Rifle. No. 996,239; June 27; Sp. p. 4694; Gaz. vol. 167; p. 836.
Guiou, John F., Presque Isle, Me. Rein-holder. No. 998,505; July 18; Sp. p. 4132; Gaz. vol. 168; p. 732.
Guissart, Albert, and E. Barbe, New York, N. Y. Bread-toaster. No. 996,082; June 27; Sp. p. 4325; Gaz. vol. 167; p. 784.
Gulack, Gilbert O., San Diego, Cal. Display apparatus. No. 988,262; Mar. 28; Sp. p. 5314; Gaz. vol. 164; p. 940.
Gulbransen, Axel G., assignor to Gulbransen-Dickinson Company, Chicago, Ill. Pneumatic piano-action. No. 991,718; May 9; Sp. p. 1935; Gaz. vol. 166; p. 347.
Gulbransen, Axel G., assignor to Gulbransen-Dickinson Company, Chicago, Ill. Pneumatic for automatic player-pianos. No. 998,171; July 18; Sp. p. 3401; Gaz. vol. 168; p. 614.
Gulbransen-Dickinson Company. (See Gulbransen, Axel G., assignor.)
Gulf Red Cedar Co. (See Graham, Edward, assignor.)
Gulick, Edward J., assignor to The Simplex Motor Car Company, Mishawaka, Ind. Mechanical movement. No. 1,007,097; Oct. 31; Sp. p. 5603; Gaz. vol. 171; p. 1030.
Gullage, Joseph, Somerville, Mass. Slack-adjuster for brakes. No. 994,385; June 6; Sp. p. 598; Gaz. vol. 167; p. 102.
Gullberg, Alex O. (See Smith and Gullberg.)
Gulledge, William T., Monroe, N. C. Mail-bag catcher and deliverer. No. 991,058; May 2; Sp. p. 469; Gaz. vol. 166; p. 82.
Gullett Gin Company. (See Johnston, Thomas E., assignor.)
Gullickson, Charles M., Milwaukee, Wis. Cellar-door. No. 991,976; May 9; Sp. p. 2437; Gaz. vol. 166; p. 433.
Gulline, Henry L., Granby, Quebec, Canada. Box and crate. No. 994,997; June 13; Sp. p. 1989; Gaz. vol. 167; p. 348.
Gulnerich, William F., Meriden, Conn. Ventilator. No. 1,002,056; Aug. 29; Sp. p. 6110; Gaz. vol. 169; p. 1104.
Gumm, George C., assignor of one-half to L. E. Rogers, Washington, D. C. Bed. No. 1,001,946; Aug. 29; Sp. p. 5895; Gaz. vol. 169; p. 1069.
Gummer, August M., assignor to The Gem City Stove Company, Dayton, Ohio. Stove-door. No. 997,550; July 11; Sp. p. 1969; Gaz. vol. 168; p. 352.

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Gumprecht, William L., assignor to Neptune Meter Company, New York, N. Y. Manufacture of water-meter disks. No. 990,255; Apr. 25; Sp. p. 4220; Gaz. vol. 165; p. 753.
Gumz, Albert E., Milwaukee, Wis. Carbureter. No. 1,003,101; Sept. 12; Sp. p. 2031; Gaz. vol. 170; p. 349.
Gundaker, George, assignor of one-half to himself and one-half to A. C. Grosso, Meaderville, Mont. Concentrating-trap. No. 1,005,828; Oct. 17; Sp. p. 2753; Gaz. vol. 171; p. 502.
Gundersen, Hans, Fredrikshald, Norway. Flying-machine. No. 999,715; Aug. 1; Sp. p. 1022; Gaz. vol. 169; p. 177.
Gunderson, August, Moose Lake, Minn. Bob-sled. No. 1,011,615; Dec. 12; Sp. p. 2765; Gaz. vol. 173; p. 463.
Gundlach, George. (See Raber and Gundlach.)
Gundorph, Ferdinand, Portland, Oreg. Tweezers. No. 1,004 871; Oct. 3; Sp. p. 700; Gaz. vol. 171; p. 114.
Gunkel, Hugo. (See Guttormson and Hast, assignors.)
Gunlefinger, Herbert D. (See Flegel, Benjamin F., assignor.)
Gunlefinger, Mark M., *et al.* (See Gschwind, Leon, assignor.)
Gunn, Charles G. B., Williamsville, Mo. Railway-tie. No. 1,003,898; Sept. 19; Sp. p. 3697; Gaz. vol. 170; p. 658.
Gunn, Robert T., Lexington, Ky. Rail-joint. No. 993,058; May 23; Sp. p. 4781; Gaz. vol. 166; p. 869.
Gunn, William F., assignor of one-sixth to J. A. Long, Portland, Oreg. Grinding-mill. No. 982,595; Jan. 24; Sp. p. 5319; Gaz. vol. 162; p. 917.
Günther, Oscar, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Bluish-red azo dye. No. 1,009,740; Nov. 28; Sp. p. 4674; Gaz. vol. 172; p. 849.
Günther, Oscar, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Red-violet coloring-matter. No. 1,009,741; Nov. 28; Sp. p. 4675; Gaz. vol. 172; p. 849.
Günther, Oscar, L. Hesse, Elberfeld, and A. Zart, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 982,952; Jan. 31; Sp. p. 6102; Gaz. vol. 162; p. 1066.
Günther, Oscar, L. Hesse, Elberfeld, and A. Zart, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 982,953; Jan. 31; Sp. p. 6103; Gaz. vol. 162; p. 1066.
Günther, Oscar, L. Hesse, Elberfeld, and A. Zart, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dyestuff. No. 989,000; Apr. 11; Sp. p. 1496; Gaz. vol. 165; p. 262.
Günther, Oscar, L. Hesse, Elberfeld, and A. Zart, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dyestuff. No. 989,001; Apr. 11; Sp. p. 1497; Gaz. vol. 165; p. 262.
Günther, Oscar, L. Hesse, Elberfeld, A. Zart, Vohwinkel, and H. Schweitzer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dyestuff. No. 982,954; Jan. 31; Sp. p. 6103; Gaz. vol. 162; p. 1066.
Günther, Oscar, L. Hesse, Elberfeld, A. Zart, Vohwinkel, and H. Schweitzer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 982,955; Jan. 31; Sp. p. 6104; Gaz. vol. 162; p. 1066.
Guntrum, Hugo. (See Bonhoeffer and Guntrum.)
Gunuskey, Ernest C., Scranton, Pa. Nozzle for sausage-stuffing machines. No. 990,547; Apr. 25; Sp. p. 4909; Gaz. vol. 165; p. 856.
Guptill, Fredrick C., assignor of one-half to W. F. Lynch, Elgin, Ill. Thermal circuit-closer. No. 986,382; Mar. 7; Sp. p. 1316; Gaz. vol. 164; p. 212.
Guptill, Rodney G., Ravia, Okla. Device for carving and graining. No. 995,454; June 20; Sp. p. 2962; Gaz. vol. 167; p. 528.
Gurley, William F., Troy, N. Y., assignor to W. & L. E. Gurley. Illuminating device. No. 1,005,829; Oct. 17; Sp. p. 2754; Gaz. vol. 171; p. 502.
Gurlitz, Landon. (See Schuchardt, Emil, assignor.)
Gurnea, Andrew J., assignor of one-half to M. W. Gurnea, Chicago, Ill. Blade-burnishing machine. No. 998,768; July 25; Sp. p. 4749; Gaz. vol. 168; p. 858.
Gurnea, Martin W. (See Gurnea, Andrew J., assignor.)
Gurnett, Michael D., Barnum, Iowa. Automatic drainage-gate. No. 999,505; Aug. 1; Sp. p. 215; Gaz. vol. 169; p. 40.
Gurney, Caleb S., Portsmouth, N. H. Pneumatic cushion for vehicles. No. 1,005,201; Oct. 10; Sp. p. 1349; Gaz. vol. 171; p. 249.
Gurney, Charles S. and M. A., Wareham, Mass. Door. No. 989,702; Apr. 18; Sp. p. 3022; Gaz. vol. 165; p. 532.
Gurney, Frederick W., Jamestown, N. Y. Equalizing device for ball-bearings. No. 993,594; May 30; Sp. p. 5933; Gaz. vol. 166; p. 1080.
Gurney, Miron A. (See Gurney, Charles S. and M. A.)
Gurney Refrigerator Co. (See Thalheim, John, assignor.)
Gurney Scale Co. (See Turner, George T., assignor.)
Gustafson, Axel R., assignor of one-half to E. P. Tomm, Chicago, Ill. Ironing-machine. No. 1,004,872; Oct. 3; Sp. p. 701; Gaz. vol. 171; p. 114.
Gustafson, Bernhard, Plainfield, N. J. Sheet-separating means. No. 990,256; Apr. 25; Sp. p. 4222; Gaz. vol. 165; p. 753.
Gustafsson, August W., Long Island City, N. Y. Turnbuckle. No. 1,011,949; Dec. 19; Sp. p. 3487; Gaz. vol. 173; p. 611.
Gustave, George, assignor to Western Electric Company, Chicago, Ill. Machine for coating wire. No. 1,004,251; Sept. 26; Sp. p. 4574; Gaz. vol. 170; p. 809.
Gustaveson, August, Murray, Utah. Clothes-sprinkler. No. 996,484; June 27; Sp. p. 5256; Gaz. vol. 167; p. 922.
Gustavson, Carl A., Brooklyn, N. Y., and H. C. Karlson, Hasbrouck Heights, N. J.; said Karlson assignor to said Gustavson. Combined rotating and reciprocable tool. No. 994,386; June 6; Sp. p. 601; Gaz. vol. 167; p. 102.
Gutcheis, Theodore. (See Van Nieuwkerk and Gutcheis.)
Gutermann, Edward A., assignor to Manning, Bowman & Company, Meriden, Conn. Percolator-pot and stand. No. 985,997; Mar. 7; Sp. p. 530; Gaz. vol. 164; p. 84.
Guth, Anna, Seattle, Wash. Curtain-stretcher. No. 993,519; May 30; Sp. p. 5771; Gaz. vol. 166; p. 1054.
Guth, Anna, New York, N. Y. Curtain-pole and window-shade support. No. 1,012,130; Dec. 19; Sp. p. 3914; Gaz. vol. 173; p. 676.
Guthrie, Edwin, Washington, D. C. Lever disk stopper. No. 1,011,054; Dec. 5; Sp. p. 1427; Gaz. vol. 173; p. 227.
Guthrie, Ida M., Carthage, Ill. Convertible support for books, &c. No. 1,009,508; Nov. 21; Sp. p. 4216; Gaz. vol. 172; p. 725.
Gutig, Robert E., Louisville, Ky. Apparatus for starting automobile-engines. No. 982,596; Jan. 24; Sp. p. 5321; Gaz. vol. 162; p. 917.
Gutman, Julius L., New York, N. Y. Garment-marking device. No. 1,002,680; Sept. 5; Sp. p. 1102; Gaz. vol. 170; p. 166.
Gutsch, Carl R., Lörrach, Germany. Web-printing machine. No. 981,923; Jan. 17; Sp. p. 3910; Gaz. vol. 162; p. 657.
Gutta Percha & Rubber Manufacturing Company. (See Spadone, Walter W., assignor.)
Gutteridge, Frank, Sarnia, Ontario, Canada. Apparatus for molding concrete bricks and blocks. No. 1,001,022; Aug. 22; Sp. p. 3954; Gaz. vol. 169; p. 726.
Güttinger, Heinrich, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Regulation of dynamo-electric machinery. No. 1,003,600; Sept. 19; Sp. p. 3087; Gaz. vol. 170; p. 557.
Guttormson, Hans, and H. Hast, assignors of one-third to H. Gunkel, Hope, N. D. Motor-sleigh. No. 987,573; Mar. 21; Sp. p. 3809; Gaz. vol. 164; p. 679.
Gutwein, Phillip, Jr., Francesville, Ind. Drainage-level. (Reissue.) No. 13,240; May 16; Sp. p. 4091; Gaz. vol. 166; p. 730.
Guy, Albert E., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Steam-power plant and the like. No. 1,006,477; Oct. 24; Sp. p. 4232; Gaz. vol. 171; p. 761.
Guy, Frank J., Arcanum, Ohio. Lawn-mower roller. No. 992,499; May 16; Sp. p. 3591; Gaz. vol. 166; p. 645.
Guy, John B., Brockton, Mass. Union bathing-suit. No. 1,002,912; Sept. 12; Sp. p. 1652; Gaz. vol. 170; p. 285.
Guyle, Henry G. (See Reith, William B., assignor.)
Guynn, Lincoln, Seattle, Wash. Current-motor. No. 986,919; Mar. 14; Sp. p. 2466; Gaz. vol. 164; p. 426.
Guyton, William, Avalon, assignor of one-half to R. Stinson, Pittsurg, Pa. Equalizing device. No. 991,977; May 9; Sp. p. 2438; Gaz. vol. 166; p. 433.
Guyton, William, Avalon, assignor of one-half to R. Stinson, Pittsburgh, Pa. Flushing apparatus. (Reissue.) No. 13,330; Dec. 5; Sp. p. 1627; Gaz. vol. 173; p. 258.
Guzman, John A., Elton, La. Combination-shears. No. 1,006,936; Oct. 24; Sp. p. 5249; Gaz. vol. 171; p. 923.
Gwóźdź, Bronislaw, Schöneiche, near Berlin, Germany. Manufacturing hot wires for thermotelephones. No. 998,965; July 25; Sp. p. 5198; Gaz. vol. 168; p. 928.
Gyer, William H., Siegfried, and E. B. Eldridge, Allentown, Pa. Spark-arrester. No. 994,387; June 6; Sp. p. 606; Gaz. vol. 167; p. 103.
Gyorffy, Lajos, Audenried, Pa. Safety elevator device. No. 988,771; Apr. 4; Sp. p. 1037; Gaz. vol. 165; p. 165.
Gyro Motor Company. (See Moore and Simmons, assignors.)
Gysi, Alfred, Zurich, Switzerland. Denture. No. 990,548; Apr. 25; Sp. p. 4910; Gaz. vol. 165; p. 856.
H. Lane Manufacturing Company, The. (See Lane, Harvey, assignor.)
H. Mueller Manufacturing Company. (See Mueller, Henry, assignor.)
H. Mueller Manufacturing Company, The. (See Mueller, Philip, assignor.)
H. Mueller Manufacturing Company. (See Mueller, Philip and H., assignors.)
H. Mueller Manufacturing Company, The. (See Mueller and Schuermann, assignors.)
H. Mueller Manufacturing Company. (See Stewart, William G., assignor.)
H. A. Metz & Co. (See Flaecher, Franz, assignor.)
H. B. Smith Company, The (See Cushing, George H., assignor.)
H. B. Smith Machine Company. (See Kelley, William S., assignor.)

Alphabetical list of patentees—Continued.

H. C. Marsh Company, The. (See Ayer, Edward M., assignor.)
H. C. White Co. (See White, Hawley C., assignor.)
H. C. White Co. (See White, Hawley C. and C. W., assignors.)
H. D. Best Dental Manufacturing Company, The. (See Best, Harrison D., assignor.)
H. D. Smith and Company, The. (See Thomson, William S., assignor.)
H. J. Heinz Company. (See Carrell, Wilber A., assignor.)
H. J. Keith Company. (See Keith, Simeon C., Jr., assignor.)
H. K. Mulford Company. (See Turner and Vanderkleed, assignors.)
H. K. Mulford Company. (See Vanderkleed, Charles E., assignor.)
H. L. Judd Company. (See Lathrop, Frank L., assignor.)
H. S. Judd Manufacturing Company. (See Judd, Henry S., assignor.)
H. S. Judd Manufacturing Company. (See Judd and Pletsch, assignors.)
H. T. Paiste Company, The. (See Thomas and Paiste, assignors.)
H. W. Johns-Manville Company, The. (See Bulock, Charles O., assignor.)
H. W. Johns-Manville Company. (See Christenson, George, assignor.)
H. W. Johns-Manville Company. (See Headson, Frank A., assignor.)
H. W. Johns-Manville Company. (See Schultz, Cleon W., assignor.)
H. W. Johns-Manville Company. (See Seigle, William R., assignor.)
Haacker, Paul, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Shoulder-piece gun. No. 1,003,102; Sept. 12; Sp. p. 2033; Gaz. vol. 170; p. 350.
Haag, Jacob W., assignor of one-fourth to G. W. Crawford, Larned, Kans. Advertising apparatus. No. 1,004,163; Sept. 26; Sp. p. 4400; Gaz. vol. 170; p. 779.
Haagn, Ernst, assignor to The Firm of W. C. Heraeus, Hanau, Germany. Contacting device for electrical measuring and indicating instruments. No. 1,004,420; Sept. 26; Sp. p. 4906; Gaz. vol. 170; p. 864.
Haahr, Anton. (See Jörgensen and Haahr.) (Reissue.)
Haarer, Julius, Frankfort-on-the-Main, Germany. Cigar-making machine. No. 987,457; Mar. 21; Sp. p. 3595; Gaz. vol. 164; p. 640.
Haas, Albert, Louisville, Ky. Meat and vegetable cutter. No. 986,166; Mar. 7; Sp. p. 851; Gaz. vol. 164; p. 138.
Haas, Charlie W., Peoria, Ill. Marker attachment. No. 984,215; Feb. 14; Sp. p. 2100; Gaz. vol. 163; p. 356.
Haas, Cyrus A., St. Louis, Mo. Veneer-drier. No. 993,775; May 30; Sp. p. 6345; Gaz. vol. 166; p. 1144.
Haas, Cyrus A., St. Louis, Mo. Pump for inflating rubber tires. No. 998,172; July 18; Sp. p. 3403; Gaz. vol. 168; p. 614.
Haas, Fidel. (See Orthwein, Joseph, assignor.)
Haas, Frederick W., Pittsburg, Pa. Liquid-cooling apparatus. No. 984,660; Feb. 21; Sp. p. 3064; Gaz. vol. 163; p. 542.
Haas, Louis, New York, N. Y. Piano-pedal. No. 1,011,191; Dec. 12; Sp. p. 1778; Gaz. vol. 173; p. 310.
Haas, Philip J., York, Nebr. Machine-mold. No. 1,000,088; Aug. 8; Sp. p. 1851; Gaz. vol. 169; p. 335.
Haas, Philip J., York, Nebr. Mold-jig. No. 1,000,089; Aug. 8; Sp. p. 1852; Gaz. vol. 169; p. 335.
Haas, Walter G., Dayton, Ohio, assignor to Indianapolis Paper Novelty Company, Indianapolis, Ind. Paper-bucket machine. No. 1,001,198; Aug. 22; Sp. p. 4305; Gaz. vol. 169; p. 785.
Haase, Ernest H. (See Haase, John W. and E. H.)
Haase, John W. and E. H., Amherst, Nebr. Pneumatic tire. No. 1,009,966; Nov. 28; Sp. p. 5127; Gaz. vol. 172; p. 924.
Haben, John A., *et al.* (See Smith, Christian N., assignor.)
Haber, Fritz, Karlsruhe, and R. Le Rossignol, Berlin, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Making ammonia. No. 999,025; July 25; Sp. p. 5331; Gaz. vol. 168; p. 949.
Haber, Fritz, Karlsruhe, and R. Le Rossignol, Berlin, assignors to Badische Anilin and Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of ammonia. No. 1,006,206; Oct. 17; Sp. p. 3618; Gaz. vol. 171; p. 637.
Haberkorn, Theodore H., Fort Wayne, Ind. Two-cycle internal-combustion engine. No. 1,004,021; Sept. 26; Sp. p. 4030; Gaz. vol. 170; p. 728.
Häberle, Michael, Brooklyn, N. Y. Pivoted sliding window. No. 1,004,873; Oct. 3; Sp. p. 704; Gaz. vol. 171; p. 115.
Haberlein, Martin M., Grace City, N. D. Blacksmith's vise. No. 1,009,407; Nov. 21; Sp. p. 3998; Gaz. vol. 172; p. 691.
Habermann, Josef, and R. Ehrenfeld, Brünn, Austria-Hungary. Obtaining lecithin, lecith-albumin, and their by-products out of raw material containing lecithin. No. 987,133; Mar. 21; Sp. p. 2871; Gaz. vol. 164; p. 527.
Habermann, Theodor, Hemslingen, near Brockel, Germany. Morse transmitter. No. 1,002,267; Sept. 5; Sp. p. 182; Gaz. vol. 170; p. 23.
Habig, George, Los Angeles, Cal. Hose or nozzle holder. No. 982,597; Jan. 24; Sp. p. 5323; Gaz. vol. 162; p. 918.
Habig, George, Los Angeles, Cal. Machine for filing and cutting metals and other materials. No. 996,329; June 27; Sp. p. 4923; Gaz. vol. 167; p. 867.
Häbig, Otto, Harburg, Germany. Screw-propeller. No. 1,003,401; Sept. 12; Sp. p. 2638; Gaz. vol. 170; p. 454.
Hachmann, Frederick, Minneapolis, Minn., assignor, by mesne assignments, to Chase Tool Manufacturing Company. Wrench. No. 992,126; May 9; Sp. p. 2724; Gaz. vol. 166; p. 482.
Hachmann, Frederick, Minneapolis, Minn., assignor, by mesne assignments, to Chase Tool Manufacturing Company. Wrench. No. 992,127; May 9; Sp. p. 2725; Gaz. vol. 166; p. 483.
Hachmann, Frederick, Chicago, assignor of one-fourth to G. N. Woodley, Evanston, one-half to E. C. Cook and one-eighth to T. G. Rix, Chicago, Ill. Train-order crane. No. 985,163; Feb. 28; Sp. p. 4119; Gaz. vol. 163; p. 750.
Hachmann, Frederick, St. Paul, Minn., and D. C. McFee, Winnipeg, Manitoba, Canada; said Hachmann assignor of one-eighth to W. Hanft, one-eighth to H. J. Muldoon, one-eighth to J. C. Murnane, St. Paul, Minn., and one-eighth to J. Heilbron, Attleboro, Mass. Wrench. No. 982,956; Jan. 31; Sp. p. 6105; Gaz. vol. 162; p. 1066.
Hacker, George W., Mulberry, Ind. Buckle. No. 989,599; Apr. 18; Sp. p. 2815; Gaz. vol. 165; p. 498.
Hackett, Charles H., and T. W. Morgan, assignors to W. W. Marsh, Waterloo, Iowa. Centrifugal cream-separator. No. 1,011,192; Dec. 12; Sp. p. 1779; Gaz. vol. 173; p. 311.
Hackett, Curtis A. (See West, James J., assignor.)
Hackett, George E., New York, N. Y. Tool-shank. No. 994,154; June 6; Sp. p. 100; Gaz. vol. 167; p. 19.
Hacking, Robert, West Bridgford, H. Hill, Ollerton, and H. W. Hill, Nottingham, England. Means for laying dust and the like on and making roads. No. 980,513; Jan. 3; Sp. p. 742; Gaz. vol. 162; p. 119.
Hackney, Clayton C., Roswell, N. Mex. Garment-supporter. No. 1,001,947; Aug. 29; Sp. p. 5897; Gaz. vol. 169; p. 1069.
Hackney, Leslie S., St. Paul, Minn. Ventilating device. No. 988,463; Apr. 4; Sp. p. 374; Gaz. vol. 165; p. 60.
Hackney, Leslie S., St. Paul, Minn. Automobile hoist and turn-table. No. 1,003,735; Sept. 19; Sp. p. 3382; Gaz. vol. 170; p. 604.
Hackney, Robert H., Milwaukee, assignor to Pressed Steel Tank Company, West Allis, Wis. Machine for drawing and shaping hollow metal articles. No. 1,011,193; Dec. 12; Sp. p. 1780; Gaz. vol. 173; p. 311.
Hackney, William F., assignor of one-half to E. Bennett, Washington, Kans. Sliding-door fastener. No. 997,805; July 11; Sp. p. 2586; Gaz. vol. 168; p. 444.
Hadaway, Albert J., and F. H. Boyer, Rochester, N. Y. Chord-indicator. No. 998,612; July 25; Sp. p. 4378; Gaz. vol. 168; p. 802.
Hadaway, John B., Duxbury, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channel-flap-laying machine. No. 981,190; Jan. 10; Sp. p. 2307; Gaz. vol. 162; p. 381.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling tool. No. 988,332; Apr. 4; Sp. p. 89; Gaz. vol. 165; p. 16.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling tool. No. 995,670; June 20; Sp. p. 3441; Gaz. vol. 167; p. 606.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making impression or imitation stitches. No. 999,161; July 25; Sp. p. 5578; Gaz. vol. 168; p. 992.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Impression or imitation stitch machine. No. 999,162; July 25; Sp. p. 5581; Gaz. vol. 168; p. 992.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Impression or imitation stitch machine. No. 1,003,450; Sept. 19; Sp. p. 2753; Gaz. vol. 170; p. 504.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Impression-stitch machine. No. 1,003,451; Sept. 19; Sp. p. 2755; Gaz. vol. 170; p. 505.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for making impression or imitation stitches. No. 1,003,452; Sept. 19; Sp. p. 2756; Gaz. vol. 170; p. 505.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 1,006,652; Oct. 24; Sp. p. 4619; Gaz. vol. 171; p. 823.
Hadaway, John B., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Tack-pulling machine. No. 1,011,773; Dec. 12; Sp. p. 3079; Gaz. vol. 173; p. 516.
Hadaway, William S., Jr., East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Electric heating device. No. 996,758; July 4; Sp. p. 322; Gaz. vol. 168; p. 55.

Alphabetical list of patentees—Continued.

Hadaway, William S., Jr., East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Electric heater and constructing the same. No. 1,007,441; Oct. 31; Sp. p. 6351; Gaz. vol. 171; p. 1153.
Haddad, Abraham J., Jackson, Miss. Sad-iron. No. 1,010,361; Nov. 28; Sp. p. 5941; Gaz. vol. 172; p. 1056.
Haddon, Julian W., Lawton, Okla. Post and means for attaching wires thereto. No. 982,957; Jan. 31; Sp. p. 6106; Gaz vol. 162; p. 1067.
Haddon, Virgil M., Louisville, Nebr. Counting device. No. 1,009,144; Nov. 21; Sp. p. 3363; Gaz. vol. 172; p. 595.
Haddrell, Charles H., Lynn, Mass., assignor to General Electric Company. Centrifugal switch. No. 1,011,774; Dec. 12; Sp. p. 3084; Gaz. vol. 173; p. 516.
Haden, Wesley W., Timpson, Tex. Sanitary banana-display case. No. 1,003,736; Sept. 19; Sp. p. 3386; Gaz. vol. 170; p. 604.
Hadfield, Robert A., Sheffield, England. Improving certain magnetic qualities of a magnetic body. No. 1,012,845; Dec. 26; Sp. p. 5456; Gaz. vol. 173; p. 965.
Hadford, John, Waukon, Wash. Drag-harrow. No. 1,002,681; Sept. 5; Sp. p. 1105; Gaz. vol. 170; p. 166.
Hadley, Artemus N., Indianapolis, Ind. Means for clearing obstructed drain-pipes. No. 995,404; June 13; Sp. p. 2841; Gaz. vol. 167; p. 483.
Hadley, Artemus N., Indianapolis, Ind. Portable derrick. No. 1,001,755; Aug. 29; Sp. p. 5459; Gaz. vol. 169; p. 1005.
Hadley, Charles S., Brooklyn, N. Y. Making printers' rollers. No. 985,164; Feb. 28; Sp. p. 4122; Gaz. vol. 163; p. 750.
Hadley, George T., San Francisco, Cal. Sanitary appliance for telephones. No. 983,491; Feb. 7; Sp. p. 501; Gaz. vol. 163; p. 80.
Hadsell, Stephen B. (See Paro and Hadsell.)
Haefer, John C., Cove, Oreg. Snow-shoe. No. 982,053; Jan. 17; Sp. p. 4205; Gaz. vol. 162; p. 701.
Haegen, Henry J., Omaha, Nebr. Hand-shears. No. 989,703; Apr. 18; Sp. p. 3024; Gaz. vol. 165; p. 532.
Haehn, Peter S., assignor of one-third to J. W. McClune and one-third to W. J. Haehn, Youngsville, Pa. Truss. No. 995,864; June 20; Sp. p. 3881; Gaz. vol. 167; p. 674.
Haehn, William J., *et al.* (See Haehn, Peter S., assignor.)
Haehnel, William, New York, N. Y. Reflector. No. 1,008,902; Nov. 14; Sp. p. 2839; Gaz. vol. 172; p. 478.
Haenny, Samuel. (See Ewart and Haenny.)
Haensel, William B., New Orleans, La. Nut-lock. No. 985,587; Feb. 28; Sp. p. 5073; Gaz. vol. 163; p. 896.
Haerst, Pièrre, Chicago, Ill. Sweeping-machine. No. 990,128; Apr. 18; Sp. p. 3917; Gaz. vol. 165; p. 676.
Haertel, Richard, assignor to F. Hoffmann-La Roche and Company, Basel, Switzerland. Disinfectant. No. 996,759; July 4; Sp. p. 323; Gaz. vol. 168; p. 55.
Haerter, Frederick, and F. H. Kunkel, Milwaukee, Wis. Sanitary lunch-receptacle. No. 980,941; Jan. 10; Sp. p. 1690; Gaz. vol. 162; p. 292.
Haeseler, Charles H., Philadelphia, Pa. Power-operated percussive tool. No. 994,743; June 13; Sp. p. 1413; Gaz. vol. 167; p. 262.
Haeseler, Charles H., Philadelphia, Pa. Power-operated percussive tool. No. 1,004,874; Oct. 3; Sp. p. 707; Gaz. vol. 171; p. 115.
Haeske, Charles M., assignor to Studebaker Brothers Manufacturing Company, South Bend, Ind. Side-board for wagons. No. 990,197; Apr. 18; Sp. p. 4072; Gaz. vol. 165; p. 700.
Hafely, John, Boston, Mass. Screw-propelled channeled balloon. No. 997,496; July 11; Sp. p. 1855; Gaz. vol. 168; p. 335.
Hafer, Adam E., Reading, Pa. Sleigh-bob. No. 999,778; Aug. 8; Sp. p. 1153; Gaz. vol. 169; p. 228.
Haffey, James F. (See Baron and Haffey.)
Hagaman, Martin N., L. V. Smiley, and G. W. Hall, La Fayette, Ind. Tile and sewer-drain protector. No. 999,106; July 25; Sp. p. 5483; Gaz. vol. 168; p. 976.
Hagan, Joseph S., Buenos Ayres, Argentina. Concrete floor. No. 985,165; Feb. 28; Sp. p. 4123; Gaz. vol. 163; p. 751.
Hage, Robert R., Culbertson, Mont. Resilient wheel. No. 986,563; Mar. 14; Sp. p. 1718; Gaz. vol. 164; p. 304.
Hagel, Gert J. von, Akron, Iowa. Nut-lock. No. 993,918; May 30; Sp. p. 6608; Gaz. vol. 166; p. 1191.
Hagelstein, Christian H. T. (See Dahl and Hagelstein.)
Hagelstein, Christian H. T., Dorchester, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,009,408; Nov. 21; Sp. p. 3999; Gaz. vol. 172; p. 691.
Hagemans, Jacques R. A., Philadelphia, Pa. Shoe ornament. No. 997,057; July 4; Sp. p. 988; Gaz. vol. 168; p. 158.
Hagemeier, Homer C., Arcadia, Nebr. Boxing for disk harrows. No. 985,588; Feb. 28; Sp. p. 5074; Gaz. vol. 163; p. 897.
Hagen, Arthur T., Rochester, N. Y., assignor, by mesne assignments, to American Laundry Machinery Company, Cincinnati, Ohio. Work-clamp for ironing-boards. No. 999,219; Aug. 1; Sp. p. 55; Gaz. vol. 169; p. 11.
Hagen, Arthur T., and D. M. Cooper, Rochester, N. Y., assignors, by mesne assignments, to American Laundry Machinery Company, Cincinnati, Ohio. Ironing-machine. No. 994,512; June 6; Sp. p. 842; Gaz. vol. 167; p. 142.
Hagen, Claude L., New York, N. Y. Elevating and lowering device for stage-scenery. No. 1,002,839; Sept. 12; Sp. p. 1459; Gaz. vol. 170; p. 259.
Hagen, Fredrick, Belvidere, Ill. Feeder for corn-shredders. No. 989,704; Apr. 18; Sp. p. 3025; Gaz. vol. 165; p. 533.
Hagen, Michael E. (See Hicks and Hagen.)
Hagenmeister, Jan, Vordingborg, Denmark. Apparatus for heating large bodies of air. No. 1,010,898; Dec. 5; Sp. p. 1107; Gaz. vol. 173; p. 174.
Hager, Charles A. (See Mabin, John W., assignor.)
Hager, Edward, Buffalo, N. Y. Rotary engine. No. 982,054; Jan. 17; Sp. p. 4206; Gaz. vol. 162; p. 701.
Hager, George C., Danbury, Conn. Rail-joint. No. 997,993; July 18; Sp. p. 3014; Gaz. vol. 168; p. 551.
Hager, Godfrey, St. Josse-ten-Noode, near Brussels, Belgium, and P. Künzi, Berne, Switzerland. Backing for bookbinding. No. 981,554; Jan. 10; Sp. p. 3106; Gaz. vol. 162; p. 507.
Hager, Herman, Detroit, Mich. Automobile-radiator. No. 1,000,259; Aug. 8; Sp. p. 2206; Gaz. vol. 169; p. 392.
Hagermann, Christoph A., Peoria, Ill. Glazed frame for hotbeds and the like. No. 995,594; June 20; Sp. p. 3288; Gaz. vol. 167; p. 579.
Hageseth, Christ, Jr., near Berwick, N. D. Whiffletree. No. 1,008,903; Nov. 14; Sp. p. 2840; Gaz. vol. 172; p. 478.
Hagey, James C., assignor to The Cable Company, Chicago, Ill. Tension device for sheet-propelling mechanisms. No. 988,333; Apr. 4; Sp. p. 91; Gaz. vol. 165; p. 16.
Haggard & Marcusson Company. (See Fraley, Charles B., assignor.)
Haggardt, Lewis F., Aurora, S. D. Adjustable canopy for draft-animals. No. 998,506; July 18; Sp. p. 4133; Gaz. vol. 168; p. 733.
Hagge, Hans J., Ogden, Iowa. Animal-trap. No. 986,460; Mar. 14; Sp. p. 1492; Gaz. vol. 164; p. 269.
Hagglund, Hans E. (See Wing, Daniel B., assignor.)
Hagler, Menan C. (See Bowen and Hagler.)
Hagstrom Brothers Manufacturing Company. (See Hagstrom, William, E., and G., assignors.)
Hagstrom, Emanuel. (See Hagstrom, William, E., and G.)
Hagstrom, Gustaf. (See Hagstrom, William, E., and G.)
Hagstrom, William, E., and G., Lindsborg, Kans. Lamp-cord adjuster. No. 986,383; Mar. 7; Sp. p. 1318; Gaz. vol. 164; p. 212.
Hagstrom, William, E., and G., assignors to Hagstrom Brothers Manufacturing Company, Lindsborg, Kans. Spark-plug. No. 994,673; June 6; Sp. p. 1210; Gaz. vol. 167; p. 197.
Hahesy, Thomas F., Chelsea, Mass. Automatic disinfecting device. No. 1,007,442; Oct. 31; Sp. p. 6352; Gaz. vol. 171; p. 1153.
Hahl, Augustus L., assignor to Hahl Automatic Clock Company, Chicago, Ill. Pneumatic clock. No. 999,779; Aug. 8; Sp. p. 1154; Gaz. vol. 169; p. 229.
Hahl Auto Clock Company. (See Billings, William W., assignor.)
Hahl Automatic Clock Company. (See Hahl, Augustus L., assignor.)
Hahl, Hans. (See Schickler and Hahl.)
Hahn, Clarence L., Baltimore, Md. Device for compressing valve-springs. No. 995,595; June 20; Sp. p. 3290; Gaz. vol. 167; p. 579.
Hahn, Ferdinand W. (See Hart, Neikirk, and Hahn.)
Hahn, Florian, and R. Graf, Nuremberg, Germany. Sewing device for surgical operations. No. 1,009,065; Nov. 21; Sp. p. 3211; Gaz. vol. 172; p. 569.
Hahn, Friedrich, Charlottenburg, near Berlin, Germany. Window. No 998,613; July 25; Sp. p. 4379; Gaz. vol. 168; p. 802.
Hahn, George, New York, N. Y. Work-holder. No. 982,668; Jan. 24; Sp. p. 5463; Gaz. vol. 162; p. 942.
Hahn, John, Los Angeles, Cal. Stuffing-box. No. 987,296; Mar. 21; Sp. p. 3253; Gaz. vol. 164; p. 586.
Hahn, John, Los Angeles, Cal. Deep-well pump. No. 993,520; May 30; Sp. p. 5773; Gaz. vol. 166; p. 1055.
Hahn, John, Los Angeles, Cal. Fluid-packing pump-piston. No. 993,521; May 30; Sp. p. 5777; Gaz. vol. 166; p. 1055.
Hahn, John N., Cleveland, Ohio. Corrugated paper-board. No. 997,994; July 18; Sp. p. 3015; Gaz. vol. 168; p. 551.
Hahn, Paul, Niederlahnstein, Germany. Mercerizing cotton, preferably in form of skeins. No. 994,076; May 30; Sp. p. 6939; Gaz. vol. 166; p. 1245.
Hahn, Paul, Niederlahnstein, Germany. Yarn-mercerizing machine. No. 998,288; July 18; Sp. p. 3689; Gaz. vol. 168; p. 658.
Hahn, Paul, Moscow, Iowa. Tie. No. 1,009,967; Nov. 28; Sp. p. 5129; Gaz. vol. 172; p. 924.
Hahn, William M. (See Cummings, James M., assignor.)
Hahnesand, Joseph. (See Moraff, Israel, assignor.) for well-sinking machines. No. 999,026; July 25; Sp. p. 5332; Gaz. vol. 168; p. 949.
Haidin, Alexander, Gary, Ind. Telescopic airship. No. 1,002,682; Sept. 5; Sp. p. 1106; Gaz. vol. 170; p. 167.

Alphabetical list of patentees—Continued.

Haigh, William B., Oldham, assignor to Oliver Machinery Company, Limited, Manchester, England. Wood-mortising machine. No. 987,065; Mar. 14; Sp. p. 2734; Gaz. vol. 164; p. 472.
Haight, Harry E., Marshfield, Wis. Rail and rail-tie plate. No. 1,004,778; Oct. 3; Sp. p. 499; Gaz. vol. 171; p. 82.
Haight, Hiram H., Winnebago, Minn. Trip mechanism
Haight, Washington Z., Houston, Tex. Truck. No. 1,006,083; Oct. 17; Sp. p. 3313; Gaz. vol. 171; p. 591.
Hailstone, Charles E. (See Mills, Edward N., assignor.)
Hailwood, Ernest A., Morley, England. Gauze of miners' safety-lamps. No. 986,461; Mar. 14; Sp. p. 1493; Gaz. vol. 164; p. 269.
Hailwood, Ernest A., Morley, England. Apparatus for igniting miners' safety-lamps. No. 990,859; May 2; Sp. p. 67; Gaz. vol. 166; p. 14.
Hailwood, Ernest A., Morley, England. Apparatus for testing miners' safety-lamps, &c. No. 990,860; May 2; Sp. p. 72; Gaz. vol. 166; p. 14.
Hailwood, Ernest A., Morley, near Leeds, England. Apparatus for igniting miners' safety-lamps. No. 993,362; May 30; Sp. p. 5430; Gaz. vol. 166; p. 1001.
Haines, Albert, assignor of one-half to L. A. Hendee, Waukegan, Ill. Machine for making steel and copper wire connections. No. 1,004,779; Oct. 3; Sp. p. 500; Gaz. vol. 171; p. 82.
Haines, George B., Chicago, Ill. Liquid-dropper. No. 996,330; June 27; Sp. p. 4926; Gaz. vol. 167; p. 867.
Haines, Henry T., Newark, N. J. Feeding device. No. 1,010,752; Dec. 5; Sp. p. 788; Gaz. vol. 173; p. 124.
Haines, James B., Jr. (See Marks and Roberts, assignors.)
Haines, John H. J., New York, N. Y. Phonograph. No. 1,005,025; Oct. 3; Sp. p. 996; Gaz. vol. 171; p. 166.
Haines, John J., Indianapolis, Ind. Vehicle-wheel. No. 997,668; July 11; Sp. p. 2235; Gaz. vol. 168; p. 395.
Haines, Lewis A., Columbus, Ohio. Producing turbine-blade strips or sections. No. 986,974; Mar. 14; Sp. p. 2560; Gaz. vol. 164; p. 443.
Haines, Lewis A., Columbus, Ohio. Blading means for turbines. No. 991,296; May 2; Sp. p. 1007; Gaz. vol. 166; p. 169.
Haines, Martin H., Rossiter, Pa. Ventilator. No. 997,806; July 11; Sp. p. 2588; Gaz. vol. 168; p. 444.
Haines, William D., Haddonfield, N. J. Feed-regulating device for seed-planting machines. No. 989,348; Apr. 11; Sp. p. 2242; Gaz. vol. 165; p. 380.
Hainline, James S., Macomb, Ill. Catafalque. No. 1,002,985; Sept. 12; Sp. p. 1791; Gaz. vol. 170; p. 310.
Hajek, Alfred M., New York, N. Y. Convertible collar. No. 997,126; July 4; Sp. p. 1110; Gaz. vol. 168; p. 180.
Hajek, Otto, Vienna, Austria-Hungary. Valveless lubricating-pump. No. 1,006,378; Oct. 17; Sp. p. 3993; Gaz. vol. 171; p. 695.
Håkansson, Oscar F., Nyqvarn, Sweden. Method of and machine for manufacturing paper. No. 1,001,521; Aug. 22; Sp. p. 4944; Gaz. vol. 169; p. 893.
Hake, Lewis F., Ottawa, Kans. Housing appliance. No. 980,514; Jan. 3; Sp. p. 743; Gaz. vol. 162; p. 119.
Hakendorf, Christopher H., Unley, South Australia, Australia. Indicator for use in transcribing music. No. 997,995; July 18; Sp. p. 3016; Gaz. vol. 168; p. 551.
Hakes, U. L. (See Rogers, Thomas J., assignor.)
Hakins, George B., Norwood, N. Y. Dental cleaning device. No. 981,638; Jan. 17; Sp. p. 3283; Gaz. vol. 162; p. 557.
Halász, Manó, Budapest, Austria-Hungary. Sliding window. No. 995,455; June 20; Sp. p. 2964; Gaz. vol. 167; p. 529.
Halbach, Carl A., Ronsdorf, Germany. Automatic locking device for sash-windows. No. 987,675; Mar. 21; Sp. p. 4043; Gaz. vol. 164; p. 716.
Halbert, John M. (See Thomas, George W., assignor.)
Halbleib, Edward A., assignor to Northeast Electric Company, Rochester, N. Y. Engine-starting apparatus. No. 1,005,541; Oct. 10; Sp. p. 2106; Gaz. vol. 171; p. 371.
Halbleib, Edward A., assignor to Northeast Electric Company, Rochester, N. Y. Electric switch. No. 1,010,753; Dec. 5; Sp. p. 791; Gaz. vol. 173; p. 124.
Halbleib, Edward A., assignor to Northeast Electric Company, Rochester, N. Y. Electric instrument. No. 1,011,616; Dec. 12; Sp. p. 2767; Gaz. vol. 173; p. 463.
Haldan, William J. (See Carter and Haldan.)
Halder, Albert H. (See Levenhagen and Halder.)
Hale, Channing E. (See Miller, Charles O., assignor.)
Hale, Charles A., Harrisonburg, Va. Gate. No. 990,435; Apr. 25; Sp. p. 4654; Gaz. vol. 165; p. 818.
Hale, Charles H. (See Genin, Jean B., assignor.)
Hale, Edward A. (See Perrin, Edward J., assignor.)
Hale, Erastus D., Bellevue, Ohio. Mail-box. No. 982,206; Jan. 17; Sp. p. 4481; Gaz. vol. 162; p. 752.
Hale, George C., Kansas City, Mo. Compound rotary engine. No. 1,008,137; Nov. 7; Sp. p. 1046; Gaz. vol. 172; p. 170.
Hale, George C., Kansas City, Mo. Lifting-jack for automobiles. No. 1,008,138; Nov. 7; Sp. p. 1048; Gaz. vol. 172; p. 170.
Hale, James E., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Vehicle tire and rim. No. 1,010,137; Nov. 28; Sp. p. 5486; Gaz. vol. 172; p. 983.
Hale, Jesse R. (See Dear, William H., assignor.)
Hale, John G., assignor of one-half to J. M. Long, Pendergrass, Ga. Hay-press. No. 991,438; May 2; Sp. p. 1300; Gaz. vol. 166; p. 217.
Hale-McAdams Wheel Company, The. (See McAdams, Sylvester L., assignor.)
Hale, William M., Nashville, Tenn. Power-shovel. No. 993,059; May 23; Sp. p. 4783; Gaz. vol. 166; p. 870.
Hales, William, St. Louis, Mo. Adjustable clamp. No. 1,011,950; Dec. 19; Sp. p. 3488; Gaz. vol. 173; p. 611.
Hales, William S., Pineville, N. C. Hoe. No. 1,011,194; Dec. 12; Sp. p. 1784; Gaz. vol. 173; p. 311.
Haley, Arthur L., assignor to A. L. Haley Architect Incorporated, Los Angeles, Cal. Wall-seat wall-bed. No. 982,669; Jan. 24; Sp. p. 5465; Gaz. vol. 162; p. 943.
Haley, John, Arcola, Ill. Watch-dial fastener. No. 995,533; June 20; Sp. p. 3132; Gaz. vol. 167; p. 557.
Haley, Joseph W., and C. B. Yelton, Erlanger, Ky. Register for lumber measurements. No. 984,908; Feb. 21; Sp. p. 3562; Gaz. vol. 163; p. 629.
Haley, Peter, Wellston, Ohio. Automatic air-coupling. No. 990,042; Apr. 18; Sp. p. 3753; Gaz. vol. 165; p. 649.
Halinka, George, Alliance, Ohio. Animal-trap. No. 1,001,639; Aug. 29; Sp. p. 5198; Gaz. vol. 169; p. 964.
Halk, William, Mount Pleasant, Pa. Stopper-extractor. No. 984,661; Feb. 21; Sp. p. 3065; Gaz. vol. 163; p. 543.
Hall, Alex F., Ealum, Fla. Oyster-opener. No. 997,996; July 18; Sp. p. 3018; Gaz. vol. 168; p. 552.
Hall, Allen E., Philadelphia, Pa. Internal-combustion engine. No. 1,010,754; Dec. 5; Sp. p. 793; Gaz. vol. 173; p. 124.
Hall, Arthur F., Toronto, Ontario, Canada. Rail-joint. No. 1,008,259; Nov. 7; Sp. p. 1314; Gaz. vol. 172; p. 215.
Hall, Augustine F., and G. Cuthbert, Philadelphia, Pa. Fluid-clutch. No. 996,925; July 4; Sp. p. 674; Gaz. vol. 168; p. 111.
Hall-Brown, Ebenezer, Kelvinside, Glasgow, Scotland. Fire-grate. No. 980,247; Jan. 3; Sp. p. 132; Gaz. vol. 162; p. 26.
Hall & Brown Woodworking Machine Co. (See Thomas, John R., assignor.)
Hall, Burton P., Fanwood, N. J., assignor to New York Automatic Sprinkler Co. Automatic sprinkler for automatic fire-extinguishers or the like. No. 1,010,045; Nov. 28; Sp. p. 5307; Gaz. vol. 172; p. 951.
Hall, Carrie, North Street, Mich. Baking-pan. No. 994,832; June 13; Sp. p. 1621; Gaz. vol. 167; p. 292.
Hall, Cary D., Sr., Baltimore, Md. Freight-car seal. No. 1,007,690; Nov. 7; Sp. p. 82; Gaz. vol. 172; p. 13.
Hall, Clyde S. (See Hall, Jesse T., assignor.)
Hall, David, Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 982,813; Jan. 31; Sp. p. 5788; Gaz. vol. 162; p. 1019.
Hall, Edward C., *et al.* (See Rupley, George H., assignor.)
Hall, Edward S., Arcade, N. Y. Hose-coupling. No. 989,251; Apr. 11; Sp. p. 2027; Gaz. vol. 165; p. 347.
Hall, Eliza B. (See Hall, Owen W., assignor.)
Hall, Everett D., assignor to Western Electric Company, New York, N. Y. Connecting-circuit for telephone-exchanges. No. 997,288; July 11; Sp. p. 1464; Gaz. vol. 168; p. 268.
Hall, Frank B., *et al.* (See Wilson, John L., assignor.)
Hall, Frank W. (See King, Hughes, and Hall.)
Hall, Fred J., Springfield, Mass. Gas-lighter. No. 1,000,730; Aug. 15; Sp. p. 3265; Gaz. vol. 169; p. 590.
Hall, Frederick W., Camden, N. J., and G. W. Bumm, Philadelphia, Pa.; said Bumm assignor to said Hall. Hand-guard for planing-machines. No. 1,001,391; Aug. 22; Sp. p. 4722; Gaz. vol. 169; p. 851.
Hall, George F., Newark, N. J., assignor of one-half to D. P. Harris, New York, N. Y. Compound instrument. No. 997,551; July 11; Sp. p. 1970; Gaz. vol. 168; p. 352.
Hall, George L., New York, N. Y. Guard-rail clamp. No. 993,595; May 30; Sp. p. 5935; Gaz. vol. 166; p. 1081.
Hall, George L., New York, N. Y. Guard-rail clamp. No. 993,596; May 30; Sp. p. 5937; Gaz. vol. 166; p. 1081.
Hall, George W. (See Hagaman, Smiley, and Hall.)
Hall, Georgia A., St. Louis, Mo. Fastening device for ironing-board covers. No. 989,962; Apr. 18; Sp. p. 3586; Gaz. vol. 165; p. 622.
Hall, Gideon E., Bridgeport, Conn. Washing-machine. No. 1,008,458; Nov. 14; Sp. p. 1898; Gaz. vol. 172; p. 324.
Hall, Gideon F., assignor of two-thirds to J. F. Garcia, Brooklyn, N. Y. Packaging-machine. No. 999,555; Aug. 1; Sp. p. 719; Gaz. vol. 169; p. 123.
Hall, Gideon F., assignor of two-thirds to J. F. Garcia, Brooklyn, N. Y. Wrapping or packaging machine. No. 999,556; Aug. 1; Sp. p. 724; Gaz. vol. 169; p. 124.
Hall, Harvey, Paonia, Colo. End-gate. No. 1,006,937; Oct. 24; Sp. p. 5250; Gaz. vol. 171; p. 923.
Hall, Harvey, Paonia, Colo. Reel. No. 1,007,443; Oct. 31; Sp. p. 6354; Gaz. vol. 171; p. 1154.
Hall, Hiram P., New York, N. Y. Explosion-engine-driven vehicle. No. 1,004,164; Sept. 26; Sp. p. 4402; Gaz. vol. 170; p. 779.
Hall, James G., *et al.* (See Distler, Frank, assignor.)
Hall, James H., New York, N. Y. Glazing-tool. No. 1,000,333; Aug. 8; Sp. p. 2352; Gaz. vol. 169; p. 416.

Alphabetical list of patentees—Continued.

Hall, James M., *et al.*, trustees. (See Vose, Ambrose S., assignor.)
Hall, James R., Winnfield, La. Device for elevating water, mercury, or other liquids. No. 1,002,057; Aug. 29; Sp. p. 6112; Gaz. vol. 169; p. 1104.
Hall, Jay H., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Control system for electric motors. No. 998,245; July 18; Sp. p. 3571; Gaz. vol. 168; p. 640.
Hall, Jay H., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Circuit-controlling system. No. 1,001,023; Aug. 22; Sp. p. 3955; Gaz. vol. 169; p. 727.
Hall, Jay H., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric controller. No. 1,004,780; Oct. 3; Sp. p. 501; Gaz. vol. 171; p. 82.
Hall, Jesse N., Gauley Bridge, W. Va. Kitchen-cabinet. No. 1,006,547; Oct. 24; Sp. p. 4413; Gaz. vol. 171; p. 787.
Hall, Jesse T., assignor to C. S. Hall, Chicago, Ill. Apparatus for preparing preservatives. No. 1,004,252; Sept. 26; Sp. p. 4578; Gaz. vol. 170; p. 809.
Hall, John, Cambridge, Mass. Tide-water motor. No. 1,002,986; Sept. 12; Sp. p. 1793; Gaz. vol. 170; p. 310.
Hall, John, Cambridge, Mass. Tide-water motor. No. 1,012,075; Dec. 19; Sp. p. 3784; Gaz. vol. 173; p. 656.
Hall, John, Jr. (See Milner, Henry J., assignor.)
Hall, John, Jr., West Springfield, Mass. Sanitary drinking-fountain. No. 985,166; Feb. 28; Sp. p. 4126; Gaz. vol. 163; p. 751.
Hall, John, Jr., West Springfield, Mass. Serving apparatus. No. 998,289; July 18; Sp. p. 3694; Gaz. vol. 168; p. 658.
Hall, John A. (See Moore and Hall.)
Hall, John B. (See Day, Louis A., assignor.)
Hall, John B., Philadelphia, Pa. Fiber composition and making the same. No. 1,000,598; Aug. 15; Sp. p. 2983; Gaz. vol. 169; p. 546.
Hall, John H. (See Jones, Theodore N., assignor.)
Hall, John H., Sheffield, England. Spare-wheel-holding device. No. 981,555; Jan. 10; Sp. p. 3108; Gaz. vol. 162; p. 507.
Hall, John I., assignor of one-half to E. Snyder, East Worcester, N. Y. Tire-protector. No. 1,003,356; Sept. 12; Sp. p. 2563; Gaz. vol. 170; p. 441.
Hall, John L., Schenectady, N. Y., assignor to General Electric Company. Projector-controller. No. 996,331; June 27; Sp. p. 4927; Gaz. vol. 167; p. 867.
Hall, John L., and A. Metzger, Schenectady, N. Y., assignors to General Electric Company. Electric welding-machine. No. 996,406; June 27; Sp. p. 5108; Gaz. vol. 167; p. 894.
Hall, John W., and C. Baynes, London, England. Detachable rim for wheels. No. 1,010,621; Dec. 5; Sp. p. 498; Gaz. vol. 173; p. 78.
Hall, L. L., *et al.* (See Erikson, Charles O., assignor.)
Hall, Minnie E., New York, N. Y. Bag-holder. No. 981,639; Jan. 17; Sp. p. 3284; Gaz. vol. 162; p. 558.
Hall, Newton L., Denver, Colo. Reinforcing rod or bar for cement concrete or similar material. No. 991,439; May 2; Sp. p. 1302; Gaz. vol. 166; p. 217.
Hall, Newton L., Denver, Colo. Means for draining hydraulic-fill dams. No. 1,011,427; Dec. 12; Sp. p. 2299; Gaz. vol. 173; p. 393.
Hall, Owen W., assignor to E. B. Hall, Portland, Oreg. Grain and seed separator and cleaner. No. 982,207; Jan. 17; Sp. p. 4482; Gaz. vol. 162; p. 752.
Hall, Rawley W., *et al.* (See Stewart, Scott, assignor.)
Hall, Robert F., Moseley, near Birmingham, England. Magneto-machine for use in connection with the ignition systems of internal-combustion engines. No. 984,368; Feb. 14; Sp. p. 2409; Gaz. vol. 163; p. 408.
Hall, Robert P., Searchlight, Nev. Airship. No. 993,297; May 23; Sp. p. 5270; Gaz. vol. 166; p. 945.
Hall, Robert P., Searchlight, Nev. Aeroplane. No. 1,005,026; Oct. 3; Sp. p. 998; Gaz. vol. 171; p. 166.
Hall, Robert W., James, Ala. Hat-supporter. No. 1,011,775; Dec. 12; Sp. p. 3085; Gaz. vol. 173; p. 517.
Hall, Roll S., Versailles, Ohio. Workman's oversuit. No. 997,669; July 11; Sp. p. 2237; Gaz. vol. 168; p. 396.
Hall, Samuel N. (See Layne, Hall, and Layne.)
Hall, Sidney J., Depew, N. Y., assignor to Gould Storage Battery Company. Battery connection. No. 994,744; June 13; Sp. p. 1418; Gaz. vol. 167; p. 263.
Hall Signal Company, The. (See Coleman, Clarence W., assignor.)
Hall, Stephen S., assignor to The Pickering Governor Co., Portland, Conn. Universal joint. No. 982,598; Jan. 24; Sp. p. 5324; Gaz. vol. 162; p. 918.
Hall, Thomas, assignor to Ridgway Dynamo & Engine Company, Ridgway, Pa. Valve-cage for oscillating valves. No. 1,006,748; Oct. 24; Sp. p. 4813; Gaz. vol. 171; p. 856.
Hall, Thomas F., assignor of one-fourth to G. C. Anderson and one-fourth to W. H. Anderson, San Jose, Cal. Portière. No. 1,001,756; Aug. 29; Sp. p. 5467; Gaz. vol. 169; p. 1005.
Hall, Waldemar, and J. Wentzer, Minneapolis, Minn. Loading attachment for wagons. No. 999,163; July 25; Sp. p. 5584; Gaz. vol. 168; p. 993.
Hall, Walter S. (See Proelss and Hall.)
Hall, William F., Raytown, Mo. Oil-burner. No. 1,003,180; Sept. 12; Sp. p. 2193; Gaz. vol. 170; p. 377.
Hall, William I., Rosehill, N. C. Rotary cultivator. No. 983,893; Feb. 14; Sp. p. 1400; Gaz. vol. 163; p. 249.
Hall, William L. (See Miller, Frederick A., assignor.)
Hall, William S., Gooding, Idaho. Plate-lifter. No. 996,407; June 27; Sp. p. 5112; Gaz. vol. 167; p. 895.
Halladay, Lewis P., Chicago, Ill. Carbureter. No. 981,853; Jan. 17; Sp. p. 3743; Gaz. vol. 162; p. 632.
Hallam, William W., *et al.* (See McCarty and Hindman, assignors.)
Hallard, James W. (See Stuart and Hallard.)
Hallberg, Josef H., New York, N. Y. Electric water-heater. No. 997,670; July 11; Sp. p. 2238; Gaz. vol. 168; p. 396.
Hallberg, Josef H., New York, assignor to The Beck Flaming Lamp Company, Canton, N. Y. Electric-arc lamp. No. 994,833; June 13; Sp. p. 1622; Gaz. vol. 167; p. 293.
Hallberg, Josef H., New York, assignor to The Beck Flaming Lamp Company, Canton, N. Y. Electric-arc lamp. No. 994,834; June 13; Sp. p. 1629; Gaz. vol. 167; p. 293.
Hallberg, Josef H., New York, assignor to The Beck Flaming Lamp Company, Canton, N. Y. Electric-arc lamp. No. 994,835; June 13; Sp. p. 1633; Gaz. vol. 167; p. 293.
Hallberg, Josef H., New York, assignor to The Beck Flaming Lamp Company, Canton, N. Y. Electric-arc lamp. No. 994,836; June 13; Sp. p. 1635; Gaz. vol. 167; p. 294.
Hallberg, Josef H., New York, assignor to The Beck Flaming Lamp Company, Canton, N. Y. Electric-arc lamp. No. 994,837; June 13; Sp. p. 1639; Gaz. vol. 167; p. 295.
Hallberg, Lawrence G., Chicago, Ill. Centering for concrete work. No. 982,055; Jan. 17; Sp. p. 4208; Gaz. vol. 162; p. 701.
Halldow, John, assignor to The Dean Electric Company, Elyria, Ohio. Telephone-receiver shell. No. 988,706; Apr. 4; Sp. p. 906; Gaz. vol. 165; p. 143.
Hallé, Clifford R. S. J., London, England. Universal-parallel-spring-motion mechanism. No. 980,774; Jan. 3; Sp. p. 1273; Gaz. vol. 162; p. 205.
Hallé, Clifford R. S. J., London, England. Automatic firearm. No. 1,010,899; Dec. 5; Sp. p. 1108; Gaz. vol. 173; p. 174.
Hallefas, Frank H., assignor to The C. F. Pease Company, Chicago, Ill. Electric switch. No. 983,275; Feb. 7; Sp. p. 34; Gaz. vol. 163; p. 8.
Hallen, Oscar E. (See Swenson and Hallen.)
Hallensleben, Otto, Görlitz, Germany. Spring-shuttle beater for power-looms. No. 987,623; Mar. 21; Sp. p. 3903; Gaz. vol. 164; p. 695.
Hallenstein, Bennett. (See Lamb, Charles C., assignor.)
Haller, Henry E., assignor to National Valve and Manufacturing Company, Pittsburgh, Pa. Oil-filter. No. 1,010,622; Dec. 5; Sp. p. 501; Gaz. vol. 173; p. 78.
Haller, Theodore F., Aurora, Ill. Rotary printer's cabinet. No. 986,975; Mar. 14; Sp. p. 2562; Gaz. vol. 164; p. 443.
Hallett, Alfred. (See Greenamyer and Hallett.)
Hallett, Arthur D., Vancouver, British Columbia, Canada. Match-safe. No. 1,003,357; Sept. 12; Sp. p. 2564; Gaz. vol. 170; p. 441.
Hallett, Carll A., Riverhead, N. Y. Antiseptic rubber-dam holder. No. 1,012,543; Dec. 19; Sp. p. 4746; Gaz. vol. 173; p. 815.
Hallett, Edward N., Canton, Pa. Dumb-waiter. No. 1,003,253; Sept. 12; Sp. p. 2356; Gaz. vol. 170; p. 404.
Halley, George W., Nevada, Iowa. Hinge. No. 983,362; Feb. 7; Sp. p. 230; Gaz. vol. 163; p. 39.
Halliday, Grant C. (See Halliday, Robert M., assignor.)
Halliday, Robert M., assignor of one-half to G. C. Halliday, Mount Gilead, Ohio. Tire-protector. No. 981,640; Jan. 17; Sp. p. 3285; Gaz. vol. 162; p. 558.
Halliday, Wilbur T. (See Hinckley, Henry D., assignor.)
Hallin, Carl A. (See Ohlson and Hallin.)
Halling, Charles O., assignor of one-fourth to H. P. Hanson and one-fourth to J. Knutson, Milan, Minn. Machine for drawing sharp edges on metallic bodies. No. 986,820; Mar. 14; Sp. p. 2261; Gaz. vol. 164; p. 391.
Halliwell, Henry V., New York, N. Y. Machine for hair-drying and the like. No. 981,641; Jan. 17; Sp. p. 3286; Gaz. vol. 162; p. 558.
Halliwell, Reginald F., Rugby, England, assignor to General Electric Company. Speed-governor. No. 993,982; May 30; Sp. p. 6739; Gaz. vol. 166; p. 1213.
Hallock, Daniel W., Rocky Point, N. Y. Loose-leaf binder. No. 1,008,139; Nov. 7; Sp. p. 1050; Gaz. vol. 172; p. 171.
Hallock, George, Sultana, Cal. Chalk-line holder. No. 982,000; Jan. 17; Sp. p. 4099; Gaz. vol. 162; p. 683.
Hallock, Lloyd B., and G. T. Keen, New York, N. Y. Engine-starting device. No. 990,730; Apr. 25; Sp. p. 5316; Gaz. vol. 165; p. 917.
Hallot, Paul, Versailles, France. Brake. No. 988,464; Apr. 4; Sp. p. 375; Gaz. vol. 165; p. 60.
Halloway, G. G., *et al.* (See Anderson, William, assignor.)
Hallowell, Howard T., Hallowell, assignor to Standard Pressed Steel Company, Philadelphia, Pa. Copying-press. No. 980,248; Jan. 3; Sp. p. 133; Gaz. vol. 162; p. 26.
Hallowell, Howard T., assignor to Standard Pressed Steel Company, Philadelphia, Pa. Shaft-collar. No. 1,004,875; Oct. 3; Sp. p. 710; Gaz. vol. 171; p. 116.

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Hallowell, William S., *et al.* (See Gamble, Joseph W., assignor.)
Hallsworth, Herbert M., Riverside, Ill. Starting mechanism for internal-combustion engines. No. 989,963; Apr. 18; Sp. p. 3587; Gaz. vol. 165; p. 622.
Hallwood, Annie. (See Hallwood, Henry S., assignor.)
Hallwood, Henry S., assignor, by mesne assignments, to himself and A. Hallwood, Columbus, Ohio. Cash-register. No. 992,128; May 9; Sp. p. 2727; Gaz. vol. 166; p. 483.
Halm, August E., Chicago, Ill. Necktie-fastening device. No. 980,515; Jan. 3; Sp. p. 746; Gaz. vol. 162; p. 119.
Halpin, Michael J., assignor to The Englander Spring Bed Company, New York, N. Y. Folding couch-bed. No. 996,640; July 4; Sp. p. 98; Gaz. vol. 168; p 17.
Halsey, Edward S., Nahant, Mass., assignor to General Electric Company. Mercury-meter. No. 1,003,453; Sept. 19; Sp. p. 2759; Gaz. vol. 170; p. 506.
Halsey Electric Generator Company. (See Spanutius, Frederick W., assignor.)
Halsey, William G., and J. Currier, Orange, N. J. Apparatus for grinding and polishing tubular articles, &c. No. 981,417; Jan. 10; Sp. p. 2851; Gaz. vol. 162; p. 460.
Halstead, Charles, Fortress Monroe, Va. Folding steps. No. 983,135; Jan. 31; Sp. p. 6479; Gaz. vol. 162; p. 1126.
Halstead, John W., Kansas City, Mo., assignor to The Wolf Company. Fodder-cutter. No. 993,243; May 23; Sp. p. 5169; Gaz. vol. 166; p. 928.
Halsted, Joseph, assignor to Joseph Halsted Co., Chicago, Ill. Counterbalanced stair. No. 1,009,241; Nov. 21; Sp. p. 3610; Gaz. vol. 172; p. 630.
Haltenberger, Samuel. (See Kolossváry, Haltenberger, and Berdenich.)
Halvardson, Gustaf L., Stockholm, Sweden. Means for driving (ringing) of church-bells and the like. No. 1,004,421; Sept. 26; Sp. p. 4908; Gaz. vol. 170; p. 865.
Halvé, Bruno, Waco, Tex. Harrow. No. 983,894; Feb. 14; Sp. p. 1402; Gaz. vol. 163; p. 249.
Halvorsen, Emanuel G., New York, N. Y. Swimming device. No. 1,007,867; Nov. 7; Sp. p. 511; Gaz. vol. 172; p. 77.
Halvorsen, Nels, Edgerton, Wis. Bob-sled. No. 1,012,544; Dec. 19; Sp. 4747; Gaz. vol. 173; p. 815.
Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Arc-lamp. No. 1,010,900; Dec. 5; Sp. p. 1112; Gaz. vol. 173; p. 175.
Halvorson, John O. (See Orgaard, Carl, assignor.)
Ham, Frederic G. S., London, England. Automatic or power-driven distributer for filter-beds and the like. No. 997,058; July 4; Sp. p. 990; Gaz. vol. 168; p. 158.
Hamann, Charles W., Campgaw, N. J. Bottle-washer. No. 995,596; June 20; Sp. p. 3292; Gaz. vol. 167; p. 579.
Hamann, Christel, Friedenau, near Berlin, assignor to Mercedes Bureau-Maschinen Gesellschaft, m. b. H., Berlin, Germany. Calculating-machine. No. 1,011,617; Dec. 12; Sp. p. 2770; Gaz. vol. 173; p. 464.
Hamann, John P., Chaseley, N. D. Grain-shock loader. No. 986,167; Mar. 7; Sp. p. 852; Gaz. vol. 164; p. 138.
Hamann, Richard W., assignor to E. J. Feiner, St. Louis, Mo. Boiler and tube cleaner. No. 995,534; June 20; Sp. p. 3134; Gaz. vol. 167; p. 557.
Hamblin, William J., Guntown, Miss. Churn. No. 981,642; Jan. 17; Sp. p. 3287; Gaz. vol. 162; p. 558.
Hambsch, Philip F., Burlington, Iowa. Range-finder. No. 1,001,844; Aug. 29; Sp. p. 5651; Gaz. vol. 169; p. 1035.
Hambsch, Philip F., Burlington, Iowa. Range-finder. No. 1,001,845; Aug. 29; Sp. p. 5653; Gaz. vol. 169; p. 1035.
Hamburg, Henry P., Morris Park, Long Island, assignor to Cushman & Denison Manufacturing Company, New York, N. Y. Clasp for index-tabs. No. 988,772; Apr. 4; Sp. p. 1038; Gaz. vol. 165; p. 165.
Hamburger, Fritz, *et al.* (See Jergle, Machal, and Heller, assignors.)
Hamby, Theodore E., Rockwood, Tenn. Electric-light socket. No. 996,408; June 27; Sp. p. 5114; Gaz. vol. 167; p. 895.
Hamel, Lewis W. (See Hardin, Neal, assignor.)
Hamer, Frederick. (See King and Hamer.)
Hamer, John W. (See Crispin, Franklin M., assignor.)
Hamerly, Edward, Sherwood, N. D. Tool holder or clip. No. 1,004,781; Oct. 3; Sp. p. 503; Gaz. vol. 171; p. 83.
Hames, Richard. (See Shea and Hames.)
Hamil, Frank H., *et al.* (See Nelson, George A., assignor.)
Hamill, Alexander. (See Chambers, William H., assignor.)
Hamill, Alexander, Baltimore, Md. Strainer or sand-valve. No. 990,861; May 2; Sp. p. 80; Gaz. vol. 166; p. 15.
Hamill, Edward F., Chicago, Ill. Card-case. No. 985,525; Feb. 28; Sp. p. 4943; Gaz. vol. 163; p. 875.
Hamill, Edward F., Chicago, Ill. Toy fireworks. No. 993,363; May 30; Sp. p. 5440; Gaz. vol. 166; p. 1002.
Hamilton, Arthur S. (See McNeal, Luther C., assignor.)
Hamilton, Charles. (See Draper and Hamilton.)
Hamilton, Clay. (See Johnson, Harry L., assignor.)
Hamilton, Edward. (See Copeland and Hamilton.)
Hamilton, Edwin C., Ann Arbor, Mich. Baby-carriage. No. 1,011,776; Dec. 12; Sp. p. 3088; Gaz. vol. 173; p. 517
Hamilton, Ernest H., Kilgore, Tex. Automatic safety attachment for air-brakes. No. 989,144; Apr. 11; Sp. p. 1787; Gaz. vol. 165; p. 311.
Hamilton, Ernest H., Kilgore, Tex. Gas-exploded ordnance. No. 993,983; May 30; Sp. p. 6741; Gaz. vol. 166; p. 1213.
Hamilton, Frank H., Perth Amboy, N. J., assignor to Vulcan Detinning Company, New York, N. Y. Mold for sash-weights. No. 994,388; June 6; Sp. p. 607; Gaz. vol. 167; p. 103.
Hamilton, Frederick, Providence, R. I. Auxiliary mounting. No. 997,289; July 11; Sp. p. 1466; Gaz. vol. 168; p. 268.
Hamilton, Henry A., trustee. (See Brazelle, Benjamin, assignor.)
Hamilton, J. W. Hugo, *et al.* (See Lilja, Sten, assignor.)
Hamilton, James, *et al.* (See Healy, Christopher J., assignor.)
Hamilton, James V., New York, N. Y. Cane-grinding machinery. No. 981,643; Jan. 17; Sp. p. 3289; Gaz. vol. 162; p. 559.
Hamilton, John, Jamaica Plain, Mass. Combined cover and socket-piece. No. 1,001,948; Aug. 29; Sp. p. 5899; Gaz. vol. 169; p. 1069.
Hamilton, John R., St. John, New Brunswick, Canada. Strap and fastener. No. 988,090; Mar. 28; Sp. p. 4995; Gaz. vol. 164; p. 886.
Hamilton, John R., Yonkers, assignor to Automatic Sprinkler Company of America, New York, N. Y. Automatic sprinkler-head. No. 998,574; July 18; Sp. p. 4282; Gaz. vol. 168; p. 756.
Hamilton, John R., Mount Kisco, N. Y., assignor to Venturi Alarm Company, Dover, N. J. Sprinkler-alarm apparatus. No. 1,006,548; Oct. 24; Sp. p. 4414; Gaz. vol. 171; p. 787.
Hamilton, John W., Galena, Kans. Pulley. No. 990,648; Apr. 25; Sp. p. 5119; Gaz. vol. 165; p. 890.
Hamilton, Karl M., assignor to Bettendorf Axle Company, Davenport, Iowa. Car-truck. No. 1,009,242; Nov. 21; Sp. p. 3612; Gaz. vol. 172; p. 630.
Hamilton Machine Tool Company, The. (See Baerbalck, Hans, assignor.)
Hamilton Machine Tool Company, The. (See Baerbalck and Gibson, assignors.)
Hamilton, Robert A., and J. Henry, Connellsville, Pa. Hardening copper. No. 984,137; Feb. 14; Sp. p. 1914; Gaz. vol. 163; p. 329.
Hamilton, Samuel B., Wakefield, Kans. Combined lister, planter, and ridge-buster. No. 1,002,683; Sept. 5; Sp. p. 1109; Gaz. vol. 170; p. 167.
Hamilton, Thomas J., Brooklyn, N. Y. Garment-hanger. No. 1,008,327; Nov. 14; Sp. p. 1521; Gaz. vol. 172; p. 278.
Hamilton, William F., Ventura, Cal. Cultivator-standard attachment. No. 1,001,522; Aug. 22; Sp. p. 4946; Gaz. vol. 169; p. 894.
Hamilton, William G., Twickenham, England. Section-insulator for electric conductors. No. 995,133; June 13; Sp. p. 2259; Gaz. vol. 167; p. 393.
Hamilton, William L., Chicago, Ill. Rotary printing-press. No. 1,003,737; Sept. 19; Sp. p. 3387; Gaz. vol. 170; p. 604.
Hamilton, William L., Bangor, Mich. Pump. No. 1,008,816; Nov. 14; Sp. p. 2675; Gaz. vol. 172; p. 449.
Hamlin, Alfred S., Mamaroneck, assignor to McCrum-Howell Company, New York, N. Y. Enameled-iron lavatory. No. 995,671; June 20; Sp. p. 3443; Gaz. vol. 167; p. 607.
Hamlin, Irving, Chicago, Ill. Sound-proof door. No. 1,005,114; Oct. 3; Sp. p. 1156; Gaz. vol. 171; p. 195.
Hamlin, Orlo J., *et al.* (See Gill, Edwin R., assignor.) (Reissue.)
Hamlin, Pulaski M., Pittston, Pa., assignor of one-half to C. H. Unverzagt, New York, N. Y. Apparatus for the recovery of by-products. No. 990,862; May 2; Sp. p. 82; Gaz. vol. 166; p. 15.
Hamlyn, William P., Rugby, England, assignor to General Electric Company. Circuit-breaker. No. 1,010,422; Dec. 5; Sp. p. 38; Gaz. vol. 173; p. 8.
Hamm, William S., Pocola, Okla. Cotton-picking sack. No. 1,010,901; Dec. 5; Sp. p. 1116; Gaz. vol. 173; p. 175.
Hamm, William S., Hubbard Woods, assignor to The Adams & Westlake Company, Chicago, Ill. Train-number indicator. No. 994,838; June 13; Sp. p. 1640; Gaz. vol. 167; p. 295.
Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Baggage-rack. No. 994,839; June 13; Sp. p. 1641; Gaz. vol. 167; p. 295.
Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Baggage-rack. No. 999,368; Aug. 1; Sp. p. 350; Gaz. vol. 169; p. 62.
Hamm, William S., Hubbard Woods, assignor to The Adams & Westlake Company, Chicago, Ill. Lantern-frame. No. 1,008,459; Nov. 14; Sp. p. 1900; Gaz. vol. 172; p. 325.
Hamm, William S., Hubbard Woods, Ill., assignor to The Adams & Westlake Company. Lantern. (Reissue.) No. 13,323; Nov. 28; Sp. p. 6046; Gaz. vol. 172; p. 1071.

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Hamm, William S., Hubbard Woods, and F. A. Schuetz, assignors to The Adams & Westlake Company, Chicago, Ill. Lantern. No. 990,980; May 2; Sp. p. 323; Gaz. vol. 166; p. 56.
Hammarlund, Oscar, Brooklyn, N. Y. Antirattling device for window-sashes. No. 983,618; Feb. 7; Sp. p. 780; Gaz. vol. 163; p. 124.
Hammel, Riglander & Company. (See Bowers, George W., assignor.)
Hammell, Cyrus R., Decatur, Ind. Weather-strip. No. 981,416; Jan. 10; Sp. p. 2850; Gaz. vol. 162; p. 460.
Hammell, George Q., Delanco, N. J. Refrigerator. No. 982,056; Jan. 17; Sp. p. 4212; Gaz. vol. 162; p. 701.
Hammer, Charles, New York, assignor to American Metal Cap Company, Brooklyn, N. Y. Metal cap. No. 997,807; July 11; Sp. p. 2589; Gaz. vol. 168; p. 444.
Hammer, Henry M., St. Louis, Mo. Delinting-machine. No. 1,008,714; Nov. 14; Sp. p. 2451; Gaz. vol. 172; p. 414.
Hammer, Joseph C. (See Stadermann and Hammer.)
Hammer, Joseph C., Chicago, Ill. Tire-protector. No. 1,012,353; Dec. 19; Sp. p. 4387; Gaz. vol. 173; p. 751.
Hammerschmidt, Anthony F., Grand Rapids, Mich. Window-screen. No. 1,009,145; Nov. 21; Sp. p. 3365; Gaz. vol. 172; p. 595.
Hammersley, Ralph, Waterford, N. Y. Take-up mechanism. No. 988,091; Mar. 28; Sp. p. 4998; Gaz. vol. 164; p. 886.
Hammesfahr, Charles, New York, N. Y. Electric sign. No. 1,007,868; Nov. 7; Sp. p. 513; Gaz. vol. 172; p. 77.
Hammett, Albert D., St. Joseph, Mo. Folding umbrella. No. 982,489; Jan. 24; Sp. p. 5114; Gaz. vol. 162; p. 882.
Hammett, James W., New York, N. Y. Amusement apparatus. No. 988,334; Apr. 4; Sp. p. 93; Gaz. vol. 165; p. 17.
Hammitt, Frank R., and C. B. Stanley, Paulsboro, N. J., assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Feeding shells to the shuttle. No. 989,778; Apr. 18; Sp. p. 3184; Gaz. vol. 165; p. 559.
Hammond, Arthur F., North Platte, Nebr. Chin-support. No. 1,000,907; Aug. 15; Sp. p. 3633; Gaz. vol. 169; p. 653.
Hammond, Bennett W., Richmond, Cal., assignor to Puncture Proof Tire Company. Vehicle-wheel. No. 1,002,582; Sept. 5; Sp. p. 897; Gaz. vol. 170; p. 133.
Hammond, Charles P., Americus, Ga. Metallic railway-tie. No. 992,351; May 16; Sp. p. 3296; Gaz. vol. 166; p. 593.
Hammond, Christopher W., assignor to Rockford Silver Plate Company, Rockford, Ill. Burnishing-machine. No. 990,257; Apr. 25; Sp. p. 4225; Gaz. vol. 165; p. 753.
Hammond, Christopher W., assignor to Rockford Silver Plate Company, Rockford, Ill. Burnishing-machine. No. 990,258; Apr. 25; Sp. p. 4227; Gaz. vol. 165; p. 754.
Hammond, Christopher W., assignor to Rockford Silver Plate Company, Rockford, Ill. Burnishing-machine. No. 990,259; Apr. 25; Sp. p. 4229; Gaz. vol. 165; p. 754.
Hammond, Fred C. (See Gilda, John R., assignor.)
Hammond, George R., Chicago, Ill. Vending-machine. No. 995,865; June 20; Sp. p. 3882; Gaz. vol. 167; p. 674.
Hammond, George W., Philadelphia, Pa., assignor of one-half to J. H. Michener, Jr., New York, N. Y. Valve. No. 985,526; Feb. 28; Sp. p. 4945; Gaz. vol. 163; p. 875.
Hammond, Irving L., Lewiston, Me. Sign. No. 992,191; May 16; Sp. p. 2880; Gaz. vol. 166; p. 537.
Hammond, Irving L., Lewiston, Me. Urinal. No. 1,008,328; Nov. 14; Sp. p. 1522; Gaz. vol. 172; p. 279.
Hammond, James B., New York, N. Y. Tabulating mechanism for type-writers. No. 1,007,098; Oct. 31; Sp. p. 5605; Gaz. vol. 171; p. 1030.
Hammond, John W., Winthrop, and J. F. Donahue, Boston, assignors to Mead-Morrison Manufacturing Company, Cambridge, Mass. Hoisting apparatus. No. 991,059; May 2; Sp. p. 471; Gaz. vol. 166; p. 82.
Hammond, Robert C. (See Jones, Frederick B., assignor.)
Hammond, Robert O., Rome, N. Y. Door-securer. No. 983,136; Jan. 31; Sp. p. 6480; Gaz. vol. 162; p. 1127.
Hammond, Theodore A., Passaic, N. J. Switchboard. No. 987,874; Mar. 28; Sp. p. 4469; Gaz. vol. 164; p. 811.
Hammond, Wilberforce B., Brookline, Mass., assignor to General Fire Extinguisher Company, New York, N. Y. Steam-generating apparatus. No. 981,081; Jan. 10; Sp. p. 2075; Gaz. vol. 162; p. 342.
Hammond, William A., Oil City, Pa. Razor-honing device. No. 992,420; May 16; Sp. p. 3430; Gaz. vol. 166; p. 617.
Hammond, William C., assignor to J. H. Boyd, Spokane, Wash. Drain-valve. No. 1,008,817; Nov. 14; Sp. p. 2677; Gaz. vol. 172; p. 449.
Hammond, William P., assignor to Triumph Couch-Bed Co., Rockland, Mass. Couch-bed. No. 980,631; Jan. 3; Sp. p. 968; Gaz. vol. 162; p. 158.
Hammons, Theodore J., Bronson, Kans. Mechanical movement. No. 994,745; June 13; Sp. p. 1419; Gaz. vol. 167; p. 263.
Hampel, Alfred K., Ruda-Rozaniecka, Austria-Hungary. Funnel. No. 990,549; Apr. 25; Sp. p. 4912; Gaz. vol. 165; p. 857.
Hampel, Alfred K., Ruda-Rozaniecka, Austria-Hungary. Safety appliance for watches. No. 1,011,951; Dec. 19; Sp. p. 3490; Gaz. vol. 173; p. 611.
Hamper, Henry, Detroit, Mich. Tobacco-pipe. No. 995,456; June 20; Sp. p. 2966; Gaz. vol. 167; p. 526.
Hampson, John, Chilworth, assignor to Wolcot Company Limited, London, England. Fiber-cleaning apparatus. No. 989,349; Apr. 11; Sp. p. 2244; Gaz. vol. 165; p. 380.
Hampson, John, Chilworth, assignor to Wolcot Company, Limited, London, England. Appparatus for separating dust, dirt, leaves, and other impurities from wool, hair, cotton, and other fibrous materials. No. 989,545; Apr. 11; Sp. p. 2669; Gaz. vol. 165; p. 449.
Hampton, James E., *et al.* (See Martin, Van Buren, assignor.)
Hampton, Marvin W., Spokane, Wash. Headlight-signal. No. 1,001,392; Aug. 22; Sp. p. 4724; Gaz. vol. 169; p. 852.
Hampton, Peter J. (See Walker and Hampton.)
Hampton, Roxanna A., Chicago, Ill. Means for catching insects. No. 1,000,514; Aug. 15; Sp. p. 2773; Gaz. vol. 169; p. 513.
Hamrick, Jabes A., Hot Springs, Ark. Tanning leather. No. 989,252; Apr. 11; Sp. p. 2030; Gaz. vol. 165; p. 347.
Hamry, Olaf, East Butte, Mont. Attachment for infants' high chairs. No. 1,003,899; Sept. 19; Sp. p. 3698; Gaz. vol. 170; p. 658.
Hamza, Julius, Norwalk, Conn. Rail-joint. No. 990,981; May 2; Sp. p. 324; Gaz. vol. 166; p. 56.
Hanau, Rudolph, assignor to The Auto Paper Feeder Company, New York, N. Y. Sheet-separator for paper-feeding machines. No. 986,384; Mar. 7; Sp. p. 1319; Gaz. vol. 164; p. 213.
Hanauer Kunstseide-Fabrik G. m. b. H. (See Bechtel, Ernst, assignor.)
Hancher, Leonard, Leesburg, Ohio. Whip-manipulator. No. 999,989; Aug. 8; Sp. p. 1593; Gaz. vol. 169; p. 300.
Hanchett, George T., Hackensack, N. J. Liquid-fuel-control system. No. 991,152; May 2; Sp. p. 692; Gaz. vol. 166; p. 117.
Hanchett, Harry N. (See Buller, Glassbrook, and Hanchett.)
Hanchett Swage Works. (See Hedstrom, John P., assignor.)
Hancock, Arthur L., Homer, Ill. Canopy. No. 983,276; Feb. 7; Sp. p. 36; Gaz. vol. 163; p. 8.
Hancock, Harry A., assignor to The Brown Straw Binder Company, Indianapolis, Ind. Straw-binding harvester. No. 997,552; July 11; Sp. p. 1973; Gaz. vol. 168; p. 353.
Hancock, Harry W. (See Jarvis, Charles H., assignor.)
Hancock, Harry W., Chicago, Ill. Force-feed lubricator. No. 1,003,254; Sept. 12; Sp. p. 2360; Gaz. vol. 170; p. 405.
Hancock, James C., Beckley, W. Va. Horseshoer. No. 980,249; Jan. 3; Sp. p. 135; Gaz. vol. 162; p. 26.
Hancock, Willard A., Montrose, Iowa. Garden-seed planter. No. 991,978; May 9; Sp. p. 2439; Gaz. vol. 166; p. 433.
Hancock, William F., Haliburton, Ontario, Canada. Explosive compound. No. 995,134; June 13; Sp. p. 2261; Gaz. vol. 167; p. 394.
Hancock, William O., Orleans, Ind. Steering device. No. 1,002,512; Sept. 5; Sp. p. 737; Gaz. vol. 170; p. 108.
Hancox, Frederick J. (See Vincent and Hancox.)
Hand, Bexatio F., and A. L. Bucknam, Washington, D. C. Device for preventing the refilling of bottles. No. 989,964; Apr. 18; Sp. p. 3592; Gaz. vol. 165; p. 623.
Hand, Charles E., St. Catharines, Ontario, Canada. Compasses or dividers. No. 1,008,140; Nov. 7; Sp. p. 1052; Gaz. vol. 172; p. 171.
Hand, Enos A., assignor to U. S. Slicing Machine Co., Chicago, Ill. Slicing-machine. No. 1,012,200; Dec. 19; Sp. p. 4067; Gaz. vol. 173; p. 698.
Hand, Jesse H., Ann Arbor, Mich. Vehicle-frame. No. 1,010,138; Nov. 28; Sp. p. 5488; Gaz. vol. 172; p. 983.
Hand, John E., Birmingham, Ohio. Bee-controlling means. No. 993,060; May 23; Sp. p. 4785; Gaz. vol. 166; p. 870.
Hand, Lee M., and O. W. Morgan, Kilgore, Nebr. Sign. No. 993,984; May 30; Sp. p. 6754; Gaz. vol. 166; p. 1214.
Handfield, Oliver, Montreal, Quebec, Canada. Separable harness-buckle. No. 1,004,422; Sept. 26; Sp. p. 4910; Gaz. vol. 170; p. 865.
Handiges, Philip T., assignor of one-half to A. Waycott, Cleveland, Ohio. Register-actuating means for gates. No. 980,250; Jan. 3; Sp. p. 136; Gaz. vol. 162; p. 27.
Handiges, Philip T., assignor to The Damascus Brake Beam Company, Cleveland, Ohio. Adjustable brake-head. No. 980,516; Jan. 3; Sp. p. 748; Gaz. vol. 162; p. 119.
Handiges, Philip T., assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Forged-steel fulcrum for brake-beams. No. 980,517; Jan. 3; Sp. p. 749; Gaz. vol. 162; p. 120.
Handiges, Philip T., assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Adjustable brake-head. No. 981,644; Jan. 17; Sp. p. 3290; Gaz. vol. 162; p. 559.
Handiges, Philip T., assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Making fulcrums for brake-beams. No. 981,645; Jan. 17; Sp. p. 3291; Gaz. vol. 162; p. 559.
Handiges, Philip T., assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Brake-beam. No. 988,773; Apr. 4; Sp. p. 1039; Gaz. vol. 165; p. 166.

Handiges, Philip T., East Cleveland, assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Adjustable brake-head. (Reissue.) No. 13,254; June 6; Sp. p. 1288; Gaz. vol. 167; p. 210.
Handschin, Arnold, Basel, Switzerland, and H. Kuny, St. Ludwig, Germany, assignors of one-third to G. Stächelin, Basel, Switzerland. Loom. No. 991,297; May 2; Sp. p. 1009; Gaz. vol. 166; p. 170.
Handy Glove Fastener Company, The. (See Hoegren, Anders G., assignor.)
Handy Manufacturing Company. (See Bergstrom, Oscar, assignor.)
Handy, Margaret L., Caro, Mich. Toilet-seat for children. No. 1,009,838; Nov. 28; Sp. p. 4884; Gaz. vol. 172; p. 882.
Handy, Robert G., Bay City, Mich. Lock for motor-vehicle levers. No. 993,364; May 30; Sp. p. 5441; Gaz. vol. 166; p. 1002.
Hanel, Barbara C., New York, N. Y. Support for collars, belts, and the like. No. 1,000,260; Aug. 8; Sp. p. 2207; Gaz. vol. 169; p. 393.
Hanes, Harvey E. (See Waller, William W., assignor.)
Haney, Joseph S., Warnerton, La. Reversible rotary engine. No. 1,009,300; Nov. 21; Sp. p. 3744; Gaz. vol. 172; p. 652.
Hanflig, Harris, Charlestown, Mass. Padlock. No. 999,990; Aug. 8; Sp. p. 1594; Gaz. vol. 169; p. 301.
Hanford, Orin A. (See Cowles and Hanford.)
Hanft, William, *et al.* (See Hachmann and McFee, assignors.)
Haniquet, George, Longbeach, assignor of two-thirds to A. Craig, Los Angeles, Cal. Gas and air mixer. No. 986,280; Mar. 7; Sp. p. 1091; Gaz. vol. 164; p. 175.
Hanke, August, assignor to Burley & Tyrrell Co., Chicago, Ill. Salt and pepper shaker. No. 1,005,705; Oct. 10; Sp. p. 2497; Gaz. vol. 171; p. 428.
Hanken, Edward E., Appleton City, Mo. Gate. No. 1,012,846; Dec. 26; Sp. p. 5456; Gaz. vol. 173; p. 966.
Hanker, Frederic C., Wilkinsburg, Pa., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Brush-holder for dynamo-electric machines. No. 1,007,562; Oct. 31; Sp. p. 6627; Gaz. vol. 171; p. 1194.
Hanley, George, Malden, Mass. Gate-valve. No. 1,006,084; Oct. 17; Sp. p. 3315; Gaz. vol. 171; p. 592.
Hanley, Warren T., and J. H. Leary, Jr., Creede, Colo. Work-holder for sewing-machines. No. 990,863; May 2; Sp. p. 85; Gaz. vol. 166; p. 16.
Hanlin, Merton L., and E. B. Ross, Buchanan, Mich., assignors to Celfor Tool Company, Chicago, Ill. Drill. No. 988,092; Mar. 28; Sp. p. 5002; Gaz. vol. 164; p. 887.
Hanlon, Bernard, Billings, Mont. Harness-terret. No. 984,909; Feb. 21; Sp. p. 3567; Gaz. vol. 163; p. 630.
Hanlon, John H., Somerville, Mass. Locomotive track-sander. No. 986,168; Mar. 7; Sp. p. 857; Gaz. vol. 164; p. 138.
Hanlon, Mabel I. M., and W. Eland, Newtown, New South Wales, Australia. Saucepan. No. 1,004,423; Sept. 26; Sp. p. 4912; Gaz. vol. 170; p. 866.
Hanlon, Marquis D., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Signal-blade. No. 985,167; Feb. 28; Sp. p. 4128; Gaz. vol. 163; p. 751.
Hanlon, Patrick J., Seattle, Wash., assignor to Sunlight Curtain Company. Manufacturing moving-picture screens. No. 986,385; Mar. 7; Sp. p. 1324; Gaz. vol. 164; p. 213.
Hanlon-Thornton Company. (See Kirby, James D., assignor.)
Hanlon, William B., Pittsburg, Pa. Shield for car-windows. No. 993,061; May 23; Sp. p. 4788; Gaz. vol. 166; p. 870.
Hanly, Ellen E., Mobile, Ala. Bed-pan. No. 1,006,653; Oct. 24; Sp. p. 4622; Gaz. vol. 171; p. 824.
Hanna, Archibald N., Fort Wayne, Ind. Automatic wagon-brake. No. 989,253; Apr. 11; Sp. p. 2031; Gaz. vol. 165; p. 348.
Hanna, Elmer E., Evanston, Ill.; P. W. Gates, conservator. Fluid-pressure riveting-machine. No. 991,440; May 2; Sp. p. 1303; Gaz. vol. 166; p. 217.
Hanna, Eubius R., Salem, Ohio. Railway-switch. No. 995,535; June 20; Sp. p. 3135; Gaz. vol. 167; p. 558.
Hanna, Julius, Fishkill Landing, N. Y. Window-screen. No. 1,011,428; Dec. 12; Sp. p. 2303; Gaz. vol. 173; p. 393.
Hanna, Martha A., *et al.* (See Hanna, William T., assignor.)
Hanna, Mike, Jr., Erlington, Ky. Ash-pan. No. 1,003,402; Sept. 12; Sp. p. 2640; Gaz. vol. 170; p. 454.
Hanna, William, Kilkeel, Ireland. Shoemaker's tool. No. 982,599; Jan. 24; Sp. p. 5325; Gaz. vol. 162; p. 918.
Hanna, William A., Del Norte, Colo. Culinary beater. No. 1,001,949; Aug. 29; Sp. p. 5900; Gaz. vol. 169; p. 1070.
Hanna, William T., Cincinnati, Ohio. Feeding fuel in blast-feed stokers. No. 984,662; Feb. 21; Sp. p. 3067; Gaz. vol. 163; p. 543.
Hanna, William T., Cincinnati, Ohio. Blast-feed stoker. No. 1,002,392; Sept. 5; Sp. p. 501; Gaz. vol. 170; p. 70.
Hanna, William T., assignor, by mesne assignments, to The Mechanical Construction Company, Cincinnati, Ohio. Automatic stoker. No. 1,002,513; Sept. 5; Sp. p. 738; Gaz. vol. 170; p. 109.
Hanna, William T., assignor of two-thirds to M. A. Hanna and one-third to C. P. Johnson, Cincinnati, Ohio. Automatic stoker. No. 990,550; Apr. 25; Sp. p. 4913; Gaz. vol. 165; p. 857.
Hanna, William T., assignor of two-thirds to M. A. Hanna and one-third to C. P. Johnson, Cincinnati, Ohio. Mechanical stoker. No. 991,614; May 9; Sp. p. 1698; Gaz. vol. 166; p. 312.
Hannaford, Alfred, Chicago, Ill., assignor to The Allbright-Nell Company. Beater. No. 994,460; June 6; Sp. p. 729; Gaz. vol. 167; p. 125.
Hannaford, Alfred, Chicago, Ill., assignor to Allbright-Nell Company. Scraper or beater arm for animal scraping or dehairing machines. No. 1,001,640; Aug. 29; Sp. p. 5199; Gaz. vol. 169; p. 964.
Hannah, Homer R. (See Hannah, Robert L. and H. R.)
Hannah, John H. (See Graham, Patrick H., assignor.)
Hannah, Robert L. and H. R., Waco, Tex. Liquid-fuel burner. No. 995,425; June 13; Sp. p. 2910; Gaz. vol. 167; p. 491.
Hannegan, James A., Independence, Kans. Hoe. No. 1,004,253; Sept. 26; Sp. p. 4580; Gaz. vol. 170; p. 810.
Hannifin, Arthur V., Chicago, Ill. Pneumatically-operated clutch. No. 984,426; Feb. 14; Sp. p. 2524; Gaz. vol. 163; p. 427.
Hannum, Henry A., Cazenovia, N. Y. Comminuting-machine. No. 1,011,342; Dec. 12; Sp. p. 2141; Gaz. vol. 173; p. 365.
Hano, Philip, New York, N. Y. Autographic register. No. 991,979; May 9; Sp. p. 2444; Gaz. vol. 166; p. 434.
Hano, Philip, New York, N. Y. Carbon-sheet. No. 1,002,058; Aug. 29; Sp. p. 6114; Gaz. vol. 169; p. 1105.
Hanpeter, Waldemar J., St. Louis, Mo. Adjustable caster. No. 1,000,731; Aug. 15; Sp. p. 3267; Gaz. vol. 169; p. 591.
Hanrahan, Joseph F., Buffalo, N. Y. Fan. No. 997,808; July 11; Sp. p. 2591; Gaz. vol. 168; p. 444.
Hanrahan, Joseph F., Buffalo, N. Y. Drier. No. 1,011,780; Dec. 12; Sp. p. 3095; Gaz. vol. 173; p. 519.
Hanrahan, Joseph F., and H. A. Wende, Buffalo, N. Y.; said Wende assignor to said Hanrahan. Fan. No. 997,127; July 4; Sp. p. 1112; Gaz. vol. 168; p. 180.
Hanrath, Theodore W., Chicago, Ill. Tape-measure attachment. No. 1,001,142; Aug. 22; Sp. p. 4199; Gaz. vol. 169; p. 768.
Hanright, Clarence B., Cambridge, assignor to The Holtzer-Cabot Electric Company, Brookline, Mass. Centrifugal switch. No. 992,870; May 23; Sp. p. 4375; Gaz. vol. 166; p. 803.
Hans, Edmund E., Minneapolis, Minn. Attachment for gas-engine crank-cases. No. 994,389; June 6; Sp. p. 609; Gaz. vol. 167; p. 103.
Hansbrough, George W., San Francisco, Cal. Metallic curb and gutter. No. 993,244; May 23; Sp. p. 5171; Gaz. vol. 166; p. 929.
Hansche, Lawrence E., Racine, Wis. Infant's chair. No. 1,000,801; Aug. 15; Sp. p. 3426; Gaz. vol. 169; p. 616.
Hanscom, William W., and A. L. Langerman, San Francisco, Cal. Electrical immersion-heater. No. 1,004,165; Sept. 26; Sp. p. 4406; Gaz. vol. 170; p. 779.
Hänsel, Oswald, Forst, Germany. Apparatus for feeding horsehair from a bundle to a wrapping device. No. 986,386; Mar. 7; Sp. p. 1325; Gaz. vol. 164; p. 213.
Hansel, Paul, Olympia, Wash. Post-card. No. 1,005,027; Oct. 3; Sp. p. 1002; Gaz. vol. 171; p. 167.
Hansell, Nils V., *et al.* (See Lilja, Sten, assignor.)
Hansell, Robert B., Baltimore, Md. Clock and watch. No. 995,457; June 20; Sp. p. 2967; Gaz. vol. 167; p. 529.
Hansen, Albert T., Jamestown, N. Y. Metal shelving. No. 994,674; June 6; Sp. p. 1211; Gaz. vol. 167; p. 197.
Hansen, Augie L., Chicago, Ill. Fluid-meter. No. 998,089; July 18; Sp. p. 3234; Gaz. vol. 168; p. 585.
Hansen, Charles, East Rand, Transvaal. Safety-brake for mine-cages. No. 988,568; Apr. 4; Sp. p. 591; Gaz. vol. 165; p. 95.
Hansen, Charles A., Schenectady, N. Y., assignor to General Electric Company. Producing ferroboron. No. 982,135; Jan. 17; Sp. p. 4357; Gaz. vol. 162; p. 728.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Rotation device for drills. No. 1,009,301; Nov. 21; Sp. p. 3746; Gaz. vol. 172; p. 653.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Drill-steel chuck for stoneworking-machines. No. 1,009,302; Nov. 21; Sp. p. 3747; Gaz. vol. 172; p. 653.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Drill-steel chuck for stoneworking-machines. No. 1,009,303; Nov. 21; Sp. p. 3748; Gaz. vol. 172; p. 653.
Hansen, Christian, Chicago, Ill. Corn and bean planter. No. 1,010,255; Nov. 28; Sp. p. 5710; Gaz. vol. 172; p. 1021.
Hansen, Christian M., Chicago, Ill. Transmission-gearing. No. 999,027; July 25; Sp. p. 5334; Gaz. vol. 168; p. 949.

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Hansen, Clarence T., Lancaster, England. Machine for making tubes from fibrous materials. No. 990,043; Apr. 18; Sp. p. 3757; Gaz. vol. 165; p. 649.
Hansen, Clarence T., Lancaster, England. Collapsible mandrel. No. 1,000,261; Aug. 8; Sp. p. 2209; Gaz. vol. 169; p. 393.
Hansen, Clarence T., Lancaster, England. Collapsible mandrel. No. 1,003,255; Sept. 12; Sp. p. 2363; Gaz. vol. 170; p. 405.
Hansen & Co. (See Hordich, Boleslaus, assignor.)
Hansen, Frederick, Stratford, Ontario, Canada. Airship. No. 987,624; Mar. 21; Sp. p. 3905; Gaz. vol. 164; p. 696.
Hansen, Frederick, Woodbine, Iowa. Mail-crane. No. 1,009,509; Nov. 21; Sp. p. 4218; Gaz. vol. 172; p. 726.
Hansen, Hans C., Newton, Mass. Printer's rule, lead, and slug cutter. No. 1,006,207; Oct. 17; Sp. p. 3619; Gaz. vol. 171; p. 637.
Hansen, Hans C., Newton, Mass. Ribbon-operating device for printing-presses. No. 1,007,691; Nov. 7; Sp. p. 84; Gaz. vol. 172; p. 13.
Hansen, Hans C., Newton, Mass. Printer's rule, lead, and slug cutter. (Reissue.) No. 13,331; Dec. 5; Sp. p. 1630; Gaz. vol. 173; p. 258.
Hansen, Hans E., *et al.* (See Shank, Augustus W., assignor.)
Hansen, Hans M., Quincy, Mass. Boot and shoe. No. 988,774; Apr. 4; Sp. p. 1041; Gaz. vol. 165; p. 166.
Hansen, Hans P. (See Davis, Isaac A., assignor.)
Hansen, Harald E., Los Angeles, Cal. Retaining milk in fresh condition. No. 994,641; June 6; Sp. p. 1141; Gaz. vol. 167; p. 186.
Hansen, Herman R., Brooklyn, N. Y. Coffee-urn. No. 987,096; Mar. 14; Sp. p. 2782; Gaz. vol. 164; p. 481.
Hansen, Iwer, Flensburg, Germany. Multicylinder suction and force pump. No. 1,010,902; Dec. 5; Sp. p. 1117; Gaz. vol. 173; p. 175.
Hansen, Jesper, assignor to Waterbury Mfg. Co., Waterbury, Conn. Electric socket-shell and shade-holder. No. 998,090; July 18; Sp. p. 3238; Gaz. vol. 168; p. 586.
Hansen, John M. (See Godley, Harry G., assignor.)
Hansen, John M., Pittsburg, Pa. Metal car-roofing. No. 985,340; Feb. 28; Sp. p. 4503; Gaz. vol. 163; p. 811.
Hansen, John M., Pittsburg, Pa. Metal car-roofing. No. 985,341; Feb. 28; Sp. p. 4504; Gaz. vol. 163; p. 811.
Hansen, John M., Pittsburgh, Pa. Car-wheel. No. 1,007,947; Nov. 7; Sp. p. 677; Gaz. vol. 172; p. 105.
Hansen, John M., Pittsburgh, Pa. Car-door-operating mechanism. No. 1,008,460; Nov. 14; Sp. p. 1900; Gaz. vol. 172; p. 325.
Hansen, John M., Pittsburgh, Pa. Car-door-operating mechanism. No. 1,008,461; Nov. 14; Sp. p. 1902; Gaz. vol. 172; p. 325.
Hansen, John M., Pittsburgh, Pa. Gondola car. No. 1,008,462; Nov. 14; Sp. p. 1905; Gaz. vol. 172; p. 326.
Hansen, John M., Pittsburgh, Pa. Sleeping-car. No. 1,011,952; Dec. 19; Sp. p. 3490; Gaz. vol. 173; p. 612.
Hansen, John M., Pittsburgh, Pa. Sleeping-car. No. 1,011,953; Dec. 19; Sp. p. 3494; Gaz. vol. 173; p. 612.
Hansen, John M., assignor to Forged Steel Wheel Company, Pittsburgh, Pa. Manufacture of car-wheels. No. 1,007,941; Nov. 7; Sp. p. 664; Gaz. vol. 172; p. 103.
Hansen, John M., assignor to Forged Steel Wheel Company, Pittsburgh, Pa. Apparatus for the manufacture of car-wheels. No. 1,007,942; Nov. 7; Sp. p. 666; Gaz. vol. 172; p. 103.
Hansen, John M., assignor to Forged Steel Wheel Company, Pittsburgh, Pa. Manufacture of car-wheels. No. 1,007,943; Nov. 7; Sp. p. 669; Gaz. vol. 172; p. 104.
Hansen, John M., assignor to Forged Steel Wheel Company, Pittsburgh, Pa. Manufacture of car-wheels. No. 1,007,944; Nov. 7; Sp. p. 671; Gaz. vol. 172; p. 104.
Hansen, John M., assignor to Forged Steel Wheel Company, Pittsburgh, Pa. Manufacture of car-wheels. No. 1,007,945; Nov. 7; Sp. p. 673; Gaz. vol. 172; p. 104.
Hansen, John M., assignor to Forged Steel Wheel Company, Pittsburgh, Pa. Apparatus for preparing blanks for the manufacture of car-wheels. No. 1,007,946; Nov. 7; Sp. p. 675; Gaz. vol. 172; p. 105.
Hansen, John S., Medford, Mass., assignor to O. A. Miller Treeing Machine Company, Portland, Me. Vamp-creasing machine. No. 1,002,393; Sept. 5; Sp. p. 502; Gaz. vol. 170; p. 70.
Hansen, Julius W., Princeton, Ind. Program-clock. No. 983,705; Feb. 7; Sp. p. 966; Gaz. vol. 163; p. 153.
Hansen, Julius W., Princeton, Ind. Clock-operated electric switch. No. 986,281; Mar. 7; Sp. p. 1092; Gaz. vol. 164; p. 175.
Hansen, Laurence M., Upland, Nebr. Gas-generator. No. 1,000,403; Aug. 15; Sp. p. 2539; Gaz. vol. 169; p. 474.
Hansen, Mons I., Chicago, Ill. Storm-window. No. 985,740; Feb. 28; Sp. p. 5410; Gaz. vol. 163; p. 948.
Hansen, Nels T., Hawarden, Iowa. Liquid-fuel burner. No. 989,351; Apr. 11; Sp. p. 2247; Gaz. vol. 165; p. 381.
Hansen, Niels M., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Valve. No. 984,427; Feb. 14; Sp. p. 2526; Gaz. vol. 163; p. 427.
Hansen, Niels M., assignor to Toledo Computing Scale Company, Toledo, Ohio. Scale. No. 1,005,202; Oct. 10; Sp. p. 1350; Gaz. vol. 171; p. 250.
Hansen, Peter W. (See Pfaff and Hansen.)
Hansen, Rene C. (See Krech and Hansen.)
Hansen, William P., Camden, N. J., assignor, by mesne assignments, to Spring Motor Fan Company, Philadelphia, Pa. Spring-motor. No. 1,008,141; Nov. 7; Sp. p. 1056; Gaz. vol. 172; p. 172.
Hänsler, Johann G., Munich, Germany. Shaft-coupling. No. 992,352; May 16; Sp. p. 3297; Gaz. vol. 166; p. 593.
Hanson, Bengt M. W., Hartford, Conn. Lubricating mechanism for multiple-spindle drills. No. 989,002; Apr. 11; Sp. p. 1498; Gaz. vol. 165; p. 263.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Grinding-machine. No. 983,226; Jan. 31; Sp. p. 6660; Gaz. vol. 162; p. 1158.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Wear-compensating journal-box. No. 989,003; Apr. 11; Sp. p. 1499; Gaz. vol. 165; p. 263.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Vise. No. 989,004; Apr. 11; Sp. p. 1500; Gaz. vol. 165; p. 263.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Vise. No. 989,005; Apr. 11; Sp. p. 1503; Gaz. vol. 165; p. 264.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Clamping mechanism. No. 989,006; Apr. 11; Sp. p. 1505; Gaz. vol. 165; p. 264.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Clutch. No. 989,007; Apr. 11; Sp. p. 1506; Gaz. vol. 165; p. 264.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Turret-lathe. No. 1,000,515; Aug. 15; Sp. p. 2775; Gaz. vol. 169; p. 513.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Metal-working machine. No. 1,000,517; Aug. 15; Sp. p. 2782; Gaz. vol. 169; p. 514.
Hanson, Bengt M. W., assignor to Pratt & Whitney Company, Hartford, Conn. Magnetic chuck. No. 1,003,900; Sept. 19; Sp. p. 3700; Gaz. vol. 170; p. 659.
Hanson, Bengt M. W., and C. L. Grohmann, assignors to Pratt & Whitney Company, Hartford, Conn. Oil-pump. No. 984,811; Feb. 21; Sp. p. 3386; Gaz. vol. 163; p. 597.
Hanson, Bengt M. W., and C. L. Grohmann, assignors to Pratt & Whitney Company, Hartford, Conn. Grinding-machine. No. 1,000,516; Aug. 15; Sp. p. 2777; Gaz. vol. 169; p. 513.
Hanson, Charles, Racine, Wis. Means for making core-vents. No. 982,670; Jan. 24; Sp. p. 5469; Gaz. vol. 162; p. 943.
Hanson, Charles A. (See Carberry and Hanson.)
Hanson, Charles A., Chicago, Ill. Reinforcing device for concrete. No. 980,414; Jan. 3; Sp. p. 483; Gaz. vol. 162; p. 83.
Hanson, Charles H., Des Moines, Iowa. Fishing-rod. No. 980,942; Jan. 10; Sp. p. 1692; Gaz. vol. 162; p. 292.
Hanson, Edwin R., Sparta, Wis. Invisible hinge. No. 989,350; Apr. 11; Sp. p. 2246; Gaz. vol. 165; p. 381.
Hanson, Ervie E., and C. Martinson, Minneapolis, Minn. Nut-lock. No. 998,290; July 18; Sp. p. 3697; Gaz. vol. 168; p. 659.
Hanson Furniture Company. (See Hanson, Henry M., assignor.)
Hanson, Haaken P., Albert Lea, Minn. Sling-lock. No. 987,875; Mar. 28; Sp. p. 4472; Gaz. vol. 164; p. 812.
Hanson, Hans P., *et al.* (See Halling, Charles O., assignor.)
Hanson, Hans P., Winamac, Ind. Pin-attached clip. No. 981,924; Jan. 17; Sp. p. 3912; Gaz. vol. 162; p. 657.
Hanson, Henry M., Janesville, Wis. Base-lock for extension-tables. No. 982,600; Jan. 24; Sp. p. 5326; Gaz. vol. 162; p. 918.
Hanson, Henry M., assignor to Hanson Furniture Company, Janesville, Wis. Locking and opening device for extension-tables. No. 1,009,902; Nov. 28; Sp. p. 4997; Gaz. vol. 172; p. 902.
Hanson, James C., Bayard, Nebr. Windmill. No. 989,705; Apr. 18; Sp. p. 3026; Gaz. vol. 165; p. 533.
Hanson, Levi E., Galva, Ill. Door-check. No. 982,136; Jan. 17; Sp. p. 4358; Gaz. vol. 162; p. 728.
Hanson, Louis, Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Rail-stay. No. 1,010,423; Dec. 5; Sp. p. 40; Gaz. vol. 173; p. 9.
Hanson, Martin, Marinette, Wis. Pulp-machine. No. 986,976; Mar. 14; Sp. p. 2564; Gaz. vol. 164; p. 444.
Hanson, N. T., *et al.* (See Kneedler, John D., assignor.)
Hanson, Oscar P., Plum City, Wis. Attachment for bit-braces. No. 988,263; Mar. 28; Sp. p. 5316; Gaz. vol. 164; p. 941.
Hanson, Otis T., Ruby, Wis. Cup-receiving cabinet. No. 991,298; May 2; Sp. p. 1011; Gaz. vol. 166; p. 170.
Hanson, Paul, Wild Horse, Colo. Clothes-washer. No. 995,346; June 13; Sp. p. 2707; Gaz. vol. 167; p. 463.
Hanson, Peter M., Minneapolis, Minn. Adjusting attachment for door-hinges. No. 1,002,394; Sept. 5; Sp. p. 505; Gaz. vol. 170; p. 70.
Hanson, Turner S., White Sulphur Springs, Mont. Loader. No. 1,007,563; Oct. 31; Sp. p. 6628; Gaz. vol. 171; p. 1195.
Hanson, William, and A. Palmquist, Barron, Wis. Silo. No. 998,575; July 18; Sp. p. 4284; Gaz. vol. 168; p. 757.

Alphabetical list of patentees—Continued.

Hanss, August, Berlin, Germany. Tidal hydraulic-power plant. No. 986,821; Mar. 14; Sp. p. 2262; Gaz. vol. 164; p. 392.
Hanvey, Frank E., and L. W. Davis, Grand Rapids, Mich. Lamp-burner. No. 991,441; May 2; Sp. p. 1305; Gaz. vol. 166; p. 218.
Hanzlik, Henry J., Lynn, Mass., assignor to General Electric Company. Turbine valve-gear. No. 1,006,654; Oct. 24; Sp. p. 4624; Gaz. vol. 171; p. 824.
Hapach, Mike. (See McGuirl, John J., assignor.)
Happich, Ernest P., Philadelphia, Pa. Safety-catch for brooches, breastpins, &c. No. 985,527; Feb. 28; Sp. p. 4947; Gaz. vol. 163; p. 876.
Happich, Ernest P., and A. Knaus, Philadelphia, Pa. Stud-guard. No. 995,866; June 20; Sp. p. 3885; Gaz. vol. 167; p. 675.
Harbaugh, John R., assignor of one-half to H. J. Cappel, Cicero, Ind. Window shade and curtain support. No. 1,004,568; Oct. 3; Sp. p. 47; Gaz. vol. 171; p. 9.
Harbaugh, Losh O., Piqua, Ohio. Switch-operating device. No. 986,282; Mar. 7; Sp. p. 1094; Gaz. vol. 164; p. 176.
Harbeck, Jervis R., assignor, by mesne assignments, to Detroit Can Company, Detroit, Mich. Package-gumming machine. No. 988,335; Apr. 4; Sp. p. 96; Gaz. vol. 165; p. 17.
Harbeck, Jervis R., assignor, by mesne assignments, to Detroit Can Company, Detroit, Mich. Tube-machine. No. 994,998; June 13; Sp. p. 1991; Gaz. vol. 167; p. 348.
Harbison, Clarence. (See Macklin, Harbison, and Trimmer.)
Harbula, Paul, Ambridge, Pa. Fan attachment for rocking-chairs. No. 983,706; Feb. 7; Sp. p. 968; Gaz. vol. 163; p. 154.
Harcourt, Harry S., assignor of one-half to S. D. Myers, Erie, Pa. Train-pipe coupling. No. 989,352; Apr. 11; Sp. p. 2249; Gaz. vol. 165; p. 381.
Hard Manufacturing Company. (See Nickerson, Edward, assignor.)
Hardecker, Frank J., Brooklyn, N. Y. Concrete-wall construction. No. 1,006,478; Oct. 24; Sp. p. 4235; Gaz. vol. 171; p. 761.
Hardegen Axle Company, The. (See Hardegen, Emil C., assignor.)
Hardegen, Emil C., assignor to The Hardegen Axle Company, Indianapolis, Ind. Driving-axle structure for motor-vehicles. No. 997,997; July 18; Sp. p. 3019; Gaz. vol. 168; p. 552.
Hardegen, Theodore, Lonaconing, Md. Trap. No. 982,001; Jan. 17; Sp. p. 4100; Gaz. vol. 162; p. 683.
Harden, Andrew J., Gretna, Fla. Syrup-skimmer. No. 995,536; June 20; Sp. p. 3136; Gaz. vol. 167; p. 558.
Härdén, Johannes, Schenectady, N. Y., assignor to General Electric Company. Wireless telegraphy. No. 1,011,777; Dec. 12; Sp. p. 3090; Gaz. vol. 173; p. 518.
Harden, Lester C., and F. Wildeson, Kimberly, Cal. Core-lifting appliance for drills. No. 1,008,904; Nov. 14; Sp. p. 2841; Gaz. vol. 172; p. 478.
Harden, Thomas, Fulham, London, England. Apparatus for machining pipe ends to form spigot and socket joints. No. 980,775; Jan. 3; Sp. p. 1275; Gaz. vol. 162; p. 205.
Hardesty, James W., Los Angeles, Cal. Expanding gusset. No. 986,055; Mar. 7; Sp. p. 640; Gaz. vol. 164; p. 103.
Hardesty, William R., and T. G. Harrison, Lebanon, Ky. Jack. No. 1,002,202; Aug. 29; Sp. p. 6397; Gaz. vol. 169; 1152.
Hardie, Edwin B., Wangaloa, near Dunedin, New Zealand. Double wire-netting clip-fastener. No. 1,007,564; Oct. 31; Sp. p. 6630; Gaz. vol. 171; p. 1195.
Hardie, George E., Pittsburg, Pa., assignor to Standard Veneer Barrel Company, Brooklyn, N. Y. Barrel trimming or finishing machine. No. 987,982; Mar. 28; Sp. p. 4764; Gaz. vol. 164; p. 850.
Hardie, James, Sr. (See Jackson, Benjamin F., assignor.)
Hardie, Robert W., New York, N. Y. Press. No. 985,756; Feb. 28; Sp. p. 5440; Gaz. vol. 163; p. 954.
Hardie, Robert W., New York, N. Y. Making bilge bodies. No. 992,421; May 16; Sp. p. 3432; Gaz. vol. 166; p. 618.
Hardin, Neal, assignor of one-fourth to L. W. Hamel, Miles City, Mont. Washing-machine gearing. No. 986,283; Mar. 7; Sp. p. 1095; Gaz. vol. 164; p. 176.
Hardin, Neal, assignor of one-fourth to L. W. Hamel, Miles City, Mont. Wringer-gearing. No. 994,314; June 6; Sp. p. 432; Gaz. vol. 167; p. 75.
Harding, Benjamin F., Milton, Mass. Ash-can attachment. No. 1,002,395; Sept. 5; Sp. p. 506; Gaz. vol. 170; p. 71.
Harding, Carl. (See Ferry, James F., assignor.)
Harding, Charles K., Chicago, Ill. Inverted incandescent mantle. No. 982,958; Jan. 31; Sp. p. 6107; Gaz. vol. 162; p. 1067.
Harding, Charles K., Chicago, Ill. Hydrocarbon lighting system. No. 983,227; Jan. 31; Sp. p. 6661; Gaz. vol. 162; p. 1158.
Harding, Charles K., Chicago, Ill. Producing inverted incandescent mantles. No. 992,959; May 23; Sp. p. 4580; Gaz. vol. 166; p. 836.
Harding, Charles K., Chicago, Ill. Inverted incandescent mantle. No. 993,334; May 23; Sp. p. 5347; Gaz. vol. 166; p. 959.
Harding, Charles K., Chicago, Ill. Incandescent burner. No. 1,006,085; Oct. 17; Sp. p. 3317; Gaz. vol. 171; p. 592.
Harding, Charles K., Chicago, Ill. Hydrocarbon lighting system. No. 1,010,623; Dec. 5; Sp. p. 503; Gaz. vol. 173; p. 78.
Harding, Charles K., assignor of one-half to A. M. Fairchild, Chicago, Ill. Hydrocarbon-lighting appliance. No. 1,005,203; Oct. 10; Sp. p. 1356; Gaz. vol. 171; p. 250.
Harding, Edwin R., Chicago, Ill. Lightning-arrester. No. 984,559; Feb. 21; Sp. p. 2851; Gaz. vol. 163; p. 508.
Harding, George, Buckland, Portsmouth, England. Baby-carriage and like vehicle. No. 994,077; May 30; Sp. p. 6940; Gaz. vol. 166; p. 1245.
Harding, George F., Wurtsboro, N. Y. Sign. No. 1,009,409; Nov. 21; Sp. p. 4007; Gaz. vol. 172; p. 692.
Harding, Henry M., New York, N. Y. Switch for monorails. No. 994,461; June 6; Sp. p. 731; Gaz. vol. 167; p. 125.
Harding, James G., Iowa City, Iowa. Mixing-machine. No. 1,009,304; Nov. 21; Sp. p. 3749; Gaz. vol. 172; p. 653.
Harding, Joseph K., St. Paul, Minn. Animal-trap. No. 996,599; June 27; Sp. p. 5480; Gaz. vol. 167; p. 959.
Harding, Kathryn D., Evanston, Ill. Attachment for crutches. No. 1,003,103; Sept. 12; Sp. p. 2036; Gaz. vol. 170; p. 350.
Harding, Leonard H., Brooklyn, N. Y. Attachment for incandescent-lamp sockets. No. 989,845; Apr. 18; Sp. p. 3339; Gaz. vol. 165; p. 582.
Harding, Samuel B., Waukesha, Wis., assignor to Modern Steel Structure Company. Spud for gold-dredges. No. 1,006,845; Oct. 24; Sp. p. 5054; Gaz. vol. 171; p. 891.
Harding, Uriah R., Jr., Dorchester, Mass. Duplicate-whist cabinet. No. 996,083; June 27; Sp. p. 4326; Gaz. vol. 167; p. 784.
Hardinge Bros. (See Hardinge, Franklin, assignor.)
Hardinge, Franklin, assignor to Hardinge Bros., Chicago, Ill. Watchman's clock. No. 986,630; Mar. 14; Sp. p. 1848; Gaz. vol. 164; p. 328.
Hardinge, Henry H., assignor to Wiebking, Hardinge & Co., Chicago, Ill. Power-transmission mechanism. No. 985,342; Feb. 28; Sp. p. 4505; Gaz. vol. 163; p. 811.
Hardison, Edwin A., Bakersfield, Cal. Casing-perforator. No. 1,004,782; Oct. 3; Sp. p. 504; Gaz. vol. 171; p. 83.
Hardman, Herbert V., Belleville, N. J. Shaving-brush. No. 1,001,757; Aug. 29; Sp. p. 5468; Gaz. vol. 169; p. 1005.
Hardman, Peck & Company. (See Hattemer, Justus, assignor.)
Hardman, Peter, Willimantic, Conn. Carding-machine. No. 993,677; May 30; Sp. p. 6139; Gaz. vol. 166; p. 1110.
Hardsocg, Martin. (See Harvie, Albert A., assignor.)
Hardsocg, Martin, Ottumwa, Iowa. Drill-coupling. No. 980,776; Jan. 3; Sp. p. 1276; Gaz. vol. 162; p. 205.
Hardsocg, Martin, Ottumwa, Iowa. Pneumatic mining-machine. No. 983,363; Feb. 7; Sp. p. 231; Gaz. vol. 163; p. 39.
Hardsocg, Martin, Ottumwa, Iowa. Forming drill-shanks and similar implements. No. 1,011,055; Dec. 5; Sp. p. 1428; Gaz. vol. 173; p. 227.
Hardsocg Wonder Drill Company, The. (See Smith, Clark J., assignor.)
Hardwick, Joseph H. (See Frost, John B., assignor.)
Hardwick, Joseph H., assignor of twenty-four one-hundredths to J. C. McKenzie and twenty-four one-hundredths to J. L. Clark, Cleveland, Tenn. Vehicle-wheel. No. 990,649; Apr. 25; Sp. p. 5120; Gaz. vol. 165; p. 890.
Hardwick, William A. (See Graves, Richmond L., assignor.)
Hardwick, William A., Memphis, Tenn. Electric-alarm lubricator. No. 1,003,455; Sept. 19; Sp. p. 2762; Gaz. vol. 170; p. 506.
Hardy, Benjamin P. (See Crawford and Hardy.)
Hardy, Charles S., San Diego, Cal. Ham-pump. No. 982,601; Jan. 24; Sp. p. 5328; Gaz. vol. 162; p. 919.
Hardy, Charles S., San Diego, Cal. Ham-pump. No. 982,671; Jan. 24; Sp. p. 5471; Gaz. vol. 162; p. 943.
Hardy, Charles S., San Diego, Cal. Vending-machine. No. 1,003,256; Sept. 12; Sp. p. 2364; Gaz. vol. 170; p. 406.
Hardy, Chauncey R. (See Lincoln, Ward W., assignor.)
Hardy, Stanley, St. Louis, Mo. Cloth-carrying machine. No. 986,822; Mar. 14; Sp. p. 2263; Gaz. vol. 164; p. 392.
Hare, Charles A. (See Woods, Elmer E., assignor.)
Hare, George R., New York, N. Y. Eyeglass-mounting. No. 1,008,540; Nov. 14; Sp. p. 2066; Gaz. vol. 172; p. 353.
Hare, Lou G., Salinas, Cal. Curtain-mattress for river-work. No. 994,999; June 13; Sp. p. 1994; Gaz. vol. 167; p. 349.
Hare, Walter A., Independence, Mo. Vapor-burner. No. 1,005,965; Oct. 17; Sp. p. 3074; Gaz. vol. 171; p. 552.
Harger, George S. (See Conroy, Michael, assignor.)
Hargis, Harry W., Monroe, N. C. Ticket. No. 992,557; May 16; Sp. p. 3723; Gaz. vol. 166; p. 666.
Hargrave, N. H., *et al.* (See Silva, Claude L., assignor.)
Hargrave, William B., Colfax, Wash. Filing and indexing appliance. No. 999,991; Aug. 8; Sp. p. 1596; Gaz. vol. 169; p. 301.

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Hargreaves Bros. & Co. (See Gray, Matthew, assignor.)
Harhorn, Victor, Friedenau, Germany. Reversing-switch for electric motors with oppositely-rotating magnets and armatures. No. 1,011,778; Dec. 12; Sp. p. 3092; Gaz. vol. 173; p. 518.
Haring, Peter P., Goliad, Tex. Cotton-picking machine. No. 992,960; May 23; Sp. p. 4584; Gaz. vol. 166; p. 836.
Harker, Charles E., Parnassus, assignor to Electric Renovator Manufacturing Co., Pittsburg, Pa. Pneumatic pumping-machine. No. 993,985; May 30; Sp. p. 6755; Gaz. vol. 166; p. 1214.
Harker Fire Extinguisher & Fumigator Company Limited, The. (See Harker, George, assignor.)
Harker, George, Petersham, near Sydney, New South Wales, assignor to The Harker Fire Extinguisher & Fumigator Company Limited, Sydney, Australia. Disinfecting apparatus. No. 993,365; May 30; Sp. p. 5443; Gaz. vol. 166; p. 1003.
Harker, George M. (See McLain and Brooks, assignors.)
Harker, John, Kendallville, Ind. Manure-spreader. No. 998,769; July 25; Sp. p. 4750; Gaz. vol. 168; p. 858.
Harkins, Charles H., Derby, Kans. Rotary valve. No. 986,284; Mar. 7; Sp. p. 1096; Gaz. vol. 164; p. 176.
Harkness, Joseph C., Lorain, Ohio. Seamless-tube-rolling mill. No. 988,569; Apr. 4; Sp. p. 596; Gaz. vol. 165; p. 96.
Harlan, Enoch. (See Eberman and Harlan.)
Harlé, Jean, Rouen, France. Detonator. No. 982,208; Jan. 17; Sp. p. 4485; Gaz. vol. 162; p. 753.
Harlé, Jean-Baptiste V. L., Paris, France. Vapor-burner. No. 1,003,601; Sept. 19; Sp. p. 3089; Gaz. vol. 170; p. 557.
Harley, John, Cincinnati, Ohio. Means for adjusting cylinder-packings. No. 980,518; Jan. 3; Sp. p. 752; Gaz. vol. 162; p. 120.
Harley, John S., assignor to W. C. Knight, trustee, Minneapolis, Minn. Electric signaling system. No. 988,465; Apr. 4; Sp. p. 376; Gaz. vol. 165; p. 60.
Harley, William S., Milwaukee, Wis. Silencer for intake-valves. No. 1,001,846; Aug. 29; Sp. p. 5656; Gaz. vol. 169; p. 1035.
Harloe, Morton, assignor to Crystal Manufacturing and Patent Company, Hawley, Pa. Faucet-filter. No. 989,965; Apr. 18; Sp. p. 3594; Gaz. vol. 165; p. 623.
Harlow, Harry B. (See McPike and Harlow.)
Harlow, Lamech, Portland, Oreg. Gang-edger. No. 982,602; Jan. 24; Sp. p. 5331; Gaz. vol. 162; p. 919.
Harman, Albert P., Radford, Va. Mail-bag catcher. No. 1,005,427; Oct. 10; Sp. p. 1869; Gaz. vol. 171; p. 331.
Harman, Frank P., Lancaster, Ohio. Nut-lock. No. 981,556; Jan. 10; Sp. p. 3109; Gaz. vol. 162; p. 507.
Harman, George H. (See Barrows, Robert Y., assignor.)
Harman, Joseph, assignor of one-half to P. E. McCabe, Brainerd, Minn. Rotary motor. No. 989,600; Apr. 18; Sp. p. 2817; Gaz. vol. 165; p. 498.
Harmel, Elizabeth, Mount Clemens, Mich. Curtain-pole. No. 1,002,840; Sept. 12; Sp. p. 1463; Gaz. vol. 170; p. 260.
Harmer, Ada, St. Louis, Mo. Stand and gage for dress-fitters. No. 1,005,542; Oct. 10; Sp. p. 2108; Gaz. vol. 171; p. 371.
Harmer, Frederick S., Columbus, Ohio. Explosive-engine. No. 1,012,635; Dec. 26; Sp. p. 4963; Gaz. vol. 173; p. 892.
Harmon, Benson, Tecumseh, Nebr. Gate. No. 993,245; May 23; Sp. p. 5173; Gaz. vol. 166; p. 929.
Harmon, Christopher C., Charlotte, N. C. Air or gas compressor. No. 999,220; Aug. 1; Sp. p. 57; Gaz. vol. 169; p. 12.
Harmon, Daniel F., Johnstown, assignor to N. B. Bastian, Williamsport, Pa. Sad-iron. No. 1,007,197; Oct. 31; Sp. p. 5847; Gaz. vol. 171; p. 1067.
Harmon, Frederick M., Cleveland, Ohio. Feed-water heating and purifying apparatus. No. 1,006,479; Oct. 24; Sp. p. 4239; Gaz. vol. 171; p. 761.
Harmon, Hubert P., Kalispell, Mont. Registering device for type-writers. No. 996,409; June 27; Sp. p. 5115; Gaz. vol. 167; p. 896.
Harmon, James W., Mauriceville, Tex. Penholder attachment. No. 1,003,358; Sept. 12; Sp. p. 2565; Gaz. vol. 170; p. 441.
Harmon, Willis E., assignor to The Nungesser Electric Battery Company, Cleveland, Ohio. Machine for making electrical dry batteries. No. 987,876; Mar. 28; Sp. p. 4473; Gaz. vol. 164; p. 812.
Harms, George. (See Meyer and Harms.)
Harms, Louis, Grand Junction, Colo. Valve. No. 994,078; May 30; Sp. p. 6941; Gaz. vol. 166; p. 1245.
Harms, Peter J., Chattanooga, Okla. Endless sickle. No. 992,656; May 16; Sp. p. 3915; Gaz. vol. 166; p. 698.
Harner, Jerome B., Pottsville, Pa. Means for setting telegraph-poles. No. 1,010,903; Dec. 5; Sp. p. 1119; Gaz. vol. 173; p. 176.
Harney, George W., Portsmouth, Va. Ferry-mooring device. No. 1,002,987; Sept. 12; Sp. p. 1795; Gaz. vol. 170; p. 311.
Harney, John W., Lynn, Mass. Molded box-toe. No. 991,299; May 2; Sp. p. 1013; Gaz. vol. 166; p. 170.
Harnly, David H., Austin, Ill. Adjustable window-shade. No. 991,060; May 2; Sp. p. 475; Gaz. vol. 166; p. 83.
Harp, William C., and J. W. Keeney, Millinville, Kans. Wagon-box clamp. No. 989,906; Apr. 18; Sp. p. 3455; Gaz. vol. 165; p. 602.
Harper, Blythe, assignor of one-fourth to A. A. Deslauriers, Duluth, Minn. Rail-handling device. No. 991,980; May 9; Sp. p. 2446; Gaz. vol. 166; p. 434.
Harper, Charles W., Everett, Mass. Target apparatus. No. 996,712; July 4; Sp. p. 234; Gaz. vol. 168; p. 40.
Harper, Charley, Marlow, Okla. Stalk-cutter. No. 990,731; Apr. 25; Sp. p. 5318; Gaz. vol. 165; p. 917.
Harper, Ebenezer H. (See Goldstein, Martin, assignor.)
Harper, Edward L., Jr., New York, N. Y. Pump. No. 1,005,204; Oct. 10; Sp. p. 1358; Gaz. vol. 171; p. 250.
Harper, George, assignor of one-half to M. Martin, Gilmore, Md. Nut-lock. No. 990,732; Apr. 25; Sp. p. 5319; Gaz. vol. 165; p. 917.
Harper, Jacob P., Bruceville, assignor of one-fifth to I. Lyons, one-fifth to S. Lyons, and one-fifth to D. H. Mahoney, Vincennes, Ind. Harrow. No. 1,008,142; Nov. 7; Sp. p. 1058; Gaz. vol. 172; p. 172.
Harper, James, Ozark, Mo. Cultivator. No. 996,240; June 27; Sp. p. 4702; Gaz. vol. 167; p. 837.
Harper, James H., Bernice, La. Stirrup. No. 985,799; Mar. 7; Sp. p. 63; Gaz. vol. 164; p. 14.
Harper, James T., Strong, Ark. Smoke-conveyer. No. 990,044; Apr. 18; Sp. p. 3759; Gaz. vol. 165; p. 650.
Harper, John H. (See Page, Jessy G., assignor.)
Harper, Juan, Santiago, Chile. Ribbon-carrier for type-writing machines. No. 1,009,305; Nov. 21; Sp. p. 3751; Gaz. vol. 172; p. 654.
Harper, Samuel S., Philadelphia, Pa. Bearing. No. 994,920; June 13; Sp. p. 1833; Gaz. vol. 167; p. 322.
Harper, Samuel S., Philadelphia, Pa. Windmill. No. 1,011,618; Dec. 12; Sp. p. 2781; Gaz. vol. 173; p. 464.
Harper, Thomas B. (See Bird, Peter E., assignor.)
Harper, William, assignor to The Berlin Machine Works, Beloit, Wis. Planer-knife jointer. No. 993,367; May 30; Sp. p. 5449; Gaz. vol. 166; p. 1003.
Harper, William, and F. W. Converse, assignors to The Berlin Machine Works, Beloit, Wis. Planer-knife sharpener. No. 993,366; May 30; Sp. p. 5446; Gaz. vol. 166; p. 1003.
Harper, William, Jr., New Bloomfield, Pa. Combined explosive-engine and air-propeller. No. 1,012,201; Dec. 19; Sp. p. 4070; Gaz. vol. 173; p. 699.
Harpham, George E., Los Angeles, Cal. Dredging apparatus. No. 988,466; Apr. 4; Sp. p. 378; Gaz. vol. 165; p. 61.
Harpham, Harry C., San Antonio, Tex. Cage or support for well-tubing. No. 982,057; Jan. 17; Sp. p. 4213; Gaz. vol. 162; p. 702.
Harpoon Seal Company, The. (See Miller, John J. A., assignor.)
Harpst, Fred E., Houston, Tex. Spark-plug. No. 996,410; June 27; Sp. p. 5118; Gaz. vol. 167; p. 896.
Harpster, William S., Columbus, Ohio. Savings-bank. No. 990,260; Apr. 25; Sp. p. 4231; Gaz. vol. 165; p. 754.
Harpster, William S., Columbus, Ohio. Communion-service device. No. 1,012,131; Dec. 19; Sp. p. 3915; Gaz. vol. 173; p. 677.
Harr, Herman E., Longbeach, Cal. Portable water heater and sterilizer. No. 1,007,099; Oct. 31; Sp. p. 5608; Gaz. vol. 171; p. 1031.
Harr, John L., Nora Springs, Iowa. Wall-paper-display rack. No. 983,439; Feb. 7; Sp. p. 384; Gaz. vol. 163; p. 63.
Harrell, Benjamin J., Eastman, and W. L. Harrell, Douglas, Ga. Washing-machine. No. 1,000,802; Aug. 15; Sp. p. 3427; Gaz. vol. 169; p. 616.
Harrell, David L., Suffolk, Va. Dirigible headlight. No. 985,998; Mar. 7; Sp. p. 531; Gaz. vol. 164; p. 84.
Harrell, John W. L., and J. Dailey, Argos, Ind. Aeroplane. No. 983,707; Feb. 7; Sp. p. 969; Gaz. vol. 163; p. 154.
Harrell, Joseph J., Chicago, Ill. Railway-tie. No. 999,449; Aug. 1; Sp. p. 508; Gaz. vol. 169; p. 89.
Harrell, William D., Lagro, Ind. Combined thimble and soot-catcher. No. 1,010,624; Dec. 5; Sp. p. 506; Gaz. vol. 173; p. 79.
Harrell, William D., assignor of one-third to J. F. Ramsey and one-third to C. Breuninger, Lagro, Ind. Mold. No. 981,557; Jan. 10; Sp. p. 3110; Gaz. vol. 162; p. 507.
Harrell, William L. (See Harrell, Benjamin J. and W. L.)
Harridge, John, Seward, Kans. Wagon-tongue support. No. 980,943; Jan. 10; Sp. p. 1692; Gaz. vol. 162; p. 293.
Harrigan, Michael J., Providence, R. I. Picker-stick buffer for looms. No. 984,663; Feb. 21; Sp. p. 3068; Gaz. vol. 163; p. 543.
Harrigan, Patrick J., McKeesport, Pa. Dump-car. No. 983,277; Feb. 7; Sp. p. 37; Gaz. vol. 163; p. 8.
Harrigan, Patrick J., McKeesport, Pa. Dump-car. No. 987,877; Mar. 28; Sp. p. 4496; Gaz. vol. 164; p. 812.
Harrild, Henry, Spokane, Wash. Window-screen. No. 980,519; Jan. 3; Sp. p. 754; Gaz. vol. 162; p. 121.
Harriman, Edwin L., Etna Mills, Cal. Tram-car fender. No. 992,657; May 16; Sp. p. 3916; Gaz. vol. 166; p. 698.
Harriman, Frederick C., New York, N. Y. Pack-carrier. No. 995,458; June 20; Sp. p. 2969; Gaz. vol. 167; p. 530.
Harriman, Frederick C., New York, N. Y. Pack-sling. No. 995,963; June 20; Sp. p. 4067; Gaz. vol. 167; p. 708.

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Harrington, Albert L., Hooker, Okla., assignor to C. F. Faupel, Chicago, Ill. Collapsible funnel. No. 387,360; Mar. 21; Sp. p. 3379; Gaz. vol. 164; p. 607.
Harrington, Arvin W., Jr., Troy, N. Y. Adhesive stick. No. 990,354; Apr. 25; Sp. p. 4446; Gaz. vol. 165; p. 787.
Harrington, Bryant P., Morven, assignor of one-half to W. T. Gaulden, Quitman, Ga. Stalk-cutter. No. 1,000,262; Aug. 8; Sp. p. 2211; Gaz. vol. 169; p. 393.
Harrington, Clinton O., Melrose, Mass., assignor to Peter Gray & Sons, Inc. Lantern. No. 1,011,779; Dec. 12; Sp. p. 3094; Gaz. vol. 173; p. 518.
Harrington, Frank S., Bridgeport, assignor of one-third to L. O. Peck, Redding Ridge, and one-third to E. B. Peck, Bridgeport, Conn. Pick. No. 1,010,755; Dec. 5; Sp. p. 798; Gaz. vol. 173; p. 125.
Harrington, John H., New Bedford, Mass. Eyelet-baking can. No. 1,000,803; Aug. 15; Sp. p. 3428; Gaz. vol. 169; p. 616.
Harrington, John L., Kansas City, Mo. Fluid-conduit for lift-bridges. No. 1,003,901; Sept. 19; Sp. p. 3701; Gaz. vol. 170; p. 659.
Harrington, Joseph. (See Poppenhusen and Harrington.)
Harrington, Joseph, Riverside, Ill. Furnace. No. 984,910; Feb. 21; Sp. p. 3568; Gaz. vol. 163; p. 630.
Harrington, Joseph, Riverside, Ill. Refractory covering for metal pipes or tubes. No. 996,926; July 4; Sp. p. 676; Gaz. vol. 168; p. 111.
Harrington, Joseph A., South Boston, assignor of one-half to M. J. Lydon, Boston, Mass. Razor-stropping device. No. 986,564; Mar. 14; Sp. p. 1720; Gaz. vol. 164; p. 304.
Harrington, Leslie, assignor to United States Automatic Loom Attachment Company, Chicago, Ill. Loom. No. 983,550; Feb. 7; Sp. p. 639; Gaz. vol. 163; p. 100.
Harrington, Michael, *et al.* (See Fullard, William, assignor.)
Harrington, Norman T., Lansing, Mich. Carbureter. No. 983,994; Feb. 14; Sp. p. 1623; Gaz. vol. 163; p. 281.
Harrington, Samuel H., New York, N. Y. Automatic signal system. No. 1,009,742; Nov. 28; Sp. p. 4676; Gaz. vol. 172; p. 849.
Harrington, Silas P. (See O'Toole, John J., assignor.)
Harris, Alf. (See Knipe, Oliver C., assignor.)
Harris, Alfred E., deceased; H. E. and A. L. Harris, executors, London, England. Gas-burner. No. 1,002,684; Sept. 5; Sp. p. 1111; Gaz. vol. 170; p. 167.
Harris, Anne L., *et al.*, executors. (See Harris, Alfred E.)
Harris, Aratia W., Linton, Ind. Mining-tool. No. 1,008,818; Nov. 14; Sp. p. 2679; Gaz. vol. 172; p. 450.
Harris, Arthur W., Birmingham, England. Calculating-machine. No. 995,135; June 13; Sp. p. 2262; Gaz. vol. 167; p. 394.
Harris, Augustus S., Hope, N. Mex. Wicket-trap. No. 986,977; Mar. 14; Sp. p. 2566; Gaz. vol. 164; p. 444.
Harris Automatic Press Company, The. (See Smith, Walter H., assignor.) (Reissue.)
Harris, Benjamin A., Lone Wolf, Okla. Sign-exhibitor. No. 983,708; Feb. 7; Sp. p. 973; Gaz. vol. 163; p. 155.
Harris, Benjamin W., Muncy, Pa. Attrition-mill plate. No. 984,664; Feb. 21; Sp. p. 3069; Gaz. vol. 163; p. 543.
Harris, Bert H., assignor of one-fourth to W. G. Myers and one-fourth to G. W. Lance, Jr., Goldhill, Oreg. Rotary engine. No. 1,007,100; Oct. 31; Sp. p. 5610; Gaz. vol. 171; p. 1031.
Harris, Bohall H. (See Baughn, Samuel C., assignor.)
Harris, Charles. (See Jacobi and Harris.)
Harris, Charles M. (See Conniff, Philip, assignor.)
Harris, Charles M., Bristol, Tenn. Filing-cabinet. No. 987,625; Mar. 21; Sp. p. 3907; Gaz. vol. 164; p. 696.
Harris, Charles S., assignor of one-third to T. E. Sellen and one-third to A. H. Chromasta, Milwaukee, Wis. Regulator for gas-stoves. No. 987,458; Mar. 21; Sp. p. 3596; Gaz. vol. 164; p. 640.
Harris, Charles W., Salem, Conn. Automobile-lamp. No. 984,088; Feb. 14; Sp. p. 1824; Gaz. vol. 163; p. 314.
Harris, Delancy P. (See Hall, George F., assignor.)
Harris, Elijah T. (See Reed, Albert S., assignor.)
Harris, Elmer E., Memphis, Tenn. Spring-wheel. No. 989,706; Apr. 18; Sp. p. 3028; Gaz. vol. 165; p. 533.
Harris, Ford W. (See Davis and Harris.)
Harris, Ford W., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Switching device. No. 981,759; Jan. 17; Sp. p. 3529; Gaz. vol. 162; p. 598.
Harris, Ford W., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 996,851; July 4; Sp. p. 516; Gaz. vol. 168; p. 85.
Harris, Ford W., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric fuse and fuse-holder. No. 999,780; Aug. 8; Sp. p. 1162; Gaz. vol. 169; p. 229.
Harris, Ford W., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Circuit-interrupter. No. 1,003,044; Sept. 12; Sp. p. 1904; Gaz. vol. 170; p. 328.
Harris, Frank, Wangaratta, Victoria, Australia. Adjustable book-rest, photo-frame, and the like for tables and otherwise. No. 1,002,147; Aug. 29; Sp. p. 6271; Gaz. vol. 169; p. 1134.
Harris, George C., *et al.* (See Renwick, Victor D., Jr., assignor.)
Harris, George F. W., Jr., Bunker Hill, Ill. Planter. No. 985,589; Feb. 28; Sp. p. 5075; Gaz. vol. 163; p. 897.
Harris, George S., Pittsfield, Mass. Lock-washer. No. 1,003,602; Sept. 19; Sp. p. 3093; Gaz. vol. 170; p. 558.
Harris, Harry, Clerkenwell, London, England. Bracelet. No. 1,000,804; Aug. 15; Sp. p. 3429; Gaz. vol. 169; p. 616.
Harris, Harvey P., Ferris, Tex. Combined stalk-cutter and harrow. No. 1,005,830; Oct. 17; Sp. p. 2756; Gaz. vol. 171; p. 503.
Harris, Henry E., *et al.*, executors. (See Harris, Alfred E.)
Harris, Herbert I., Rochester, N. Y. Incinerator. No. 1,000,170; Aug. 8; Sp. p. 2022; Gaz. vol. 169; p. 362.
Harris, Hollis H., Lorain, Ohio. Excavator. No. 1,002,148; Aug. 29; Sp. p. 6272; Gaz. vol. 169; p. 1134.
Harris, Hollis H., assignor to The Thew Manufacturing Company, Lorain, Ohio. Excavating mechanism. No. 1,000,263; Aug. 8; Sp. p. 2213; Gaz. vol. 169; p. 394.
Harris, Hollis H., assignor to The Thew Automatic Shovel Company, Lorain, Ohio. Excavating mechanism. No. 1,002,685; Sept. 5; Sp. p. 1112; Gaz. vol. 170; p. 167.
Harris, Jesse, Rensselaer, N. Y. Electric meter. No. 992,768; May 23; Sp. p. 4140; Gaz. vol. 166; p. 766.
Harris, John, Cleveland, Ohio. Carbureter. No. 985,999; Mar. 7; Sp. p. 533; Gaz. vol. 164; p. 85.
Harris, John, Cleveland, Ohio. Carbureter. No. 988,638; Apr. 4; Sp. p. 751; Gaz. vol. 165; p. 120.
Harris, John, Cleveland, Ohio. Carbureter. No. 1,000,518; Aug. 15; Sp. p. 2786; Gaz. vol. 169; p. 514.
Harris, John B., Nashville, Tenn. Garbage-incinerator. No. 1,006,379; Oct. 17; Sp. p. 3995; Gaz. vol. 171; p. 696.
Harris, John C. (See Litchfield and Harris.)
Harris, John C., assignor to The Litchfield Manufacturing Company, Waterloo, Iowa. Adjustable coupling. No. 989,779; Apr. 18; Sp. p. 3188; Gaz. vol. 165; p. 560.
Harris, John D., Liverpool, England, and K. A. Aczél, Kemencze, Austria-Hungary. Lamp. No. 1,003,738; Sept. 19; Sp. p. 3390; Gaz. vol. 170; p. 605.
Harris, John R., Pittsburg, Pa. Coat attachment or hitch. No. 987,983; Mar. 28; Sp. p. 4768; Gaz. vol. 164; p. 850.
Harris, Joseph A., Boston, Mass. Nut-lock. No. 995,136; June 13; Sp. p. 2274; Gaz. vol. 167; p. 394.
Harris, Joseph N., Dolph, Mich. Safety-envelop. No. 993,986; May 30; Sp. p. 6759; Gaz. vol. 166; p. 1214.
Harris, Julius, Liverpool, assignor of one-half to T. K. Emery, Liscard, England. Sound recording and reproducing machine. No. 989,707; Apr. 18; Sp. p. 3030; Gaz. vol. 165; p. 533.
Harris, Julius W., and J. R. Welch, High Point, N. C. Painting-machine. No. 990,436; Apr. 25; Sp. p. 4657; Gaz. vol. 165; p. 818.
Harris, Leroy B., Belton, Mo. Irrigating apparatus. No. 994,155; June 6; Sp. p. 101; Gaz. vol. 167; p. 20.
Harris, Louis E. M., Western Port, Md. Blasting-needle attachment. No. 984,089; Feb. 14; Sp. p. 1825; Gaz. vol. 163; p. 314.
Harris, Louis W. (See Basley, Manfred A., assignor.)
Harris, Max, assignor, by mesne assignments, to Nernst Lamp Company, Pittsburg, Pa. Fixture-lamp. No. 983,364; Feb. 7; Sp. p. 235; Gaz. vol. 163; p. 40.
Harris, Mayer, New York, N. Y. Furniture. No. 983,709; Feb. 7; Sp. p. 974; Gaz. vol. 163; p. 155.
Harris, Nicholas R. (See Axman, Rudolf, assignor.)
Harris, Ralph N., Columbus, Ohio. Fender for motor-vehicles. No. 981,260; Jan. 10; Sp. p. 2499; Gaz. vol. 162; p. 406.
Harris, Richard H., Culpeper, Va., assignor of one-half to W. T. Byram, Washington, D. C. Trap. No. 1,010,256; Nov. 28; Sp. p. 5712; Gaz. vol. 172; p. 1021.
Harris, Robert A., Weldon, N. C., assignor of one-third to W. H. Crawford, Richmond, Va. Advertising apparatus. No. 1,008,260; Nov. 7; Sp. p. 1316; Gaz. vol. 172; p. 215.
Harris, Robert C., assignor to Clarke Chapman and Company Limited, Gateshead, England. Electric resistance. No. 1,006,655; Oct. 24; Sp. p. 4625; Gaz. vol. 171; p. 825.
Harris, Robert M., and W. L. Bottoms, Byers, Tex. Wrench. No. 1,007,101; Oct. 31; Sp. p. 5612; Gaz. vol. 171; p. 1032.
Harris, Stephen J., Honolulu, Hawaii. Mast-hoop. No. 985,671; Feb. 28; Sp. p. 5229; Gaz. vol. 163; p. 924.
Harris, Thaddeus S., Waverly, Ill. Propeller for aeroplanes. No. 999,992; Aug. 8; Sp. p. 1601; Gaz. vol. 169; p. 302.
Harris, Thomas H., Bradford, and M. D. Rucker, Westminster, London, England. Cooling apparatus. No. 984,911; Feb. 21; Sp. p. 3573; Gaz. vol. 163; p. 630.
Harris, Warren B., Millbury, Mass. Machine for cutting window-frame pockets. No. 997,059; July 4; Sp. p. 992; Gaz. vol. 168; p. 158.
Harris, William A., Greenville, S. C. Carbureter. No. 1,010,904; Dec. 5; Sp. p. 1122; Gaz. vol. 173; p. 176.
Harris, William A., Greenville, S. C., assignor, by mesne assignments, to G. W. Taylor. Plow. No. 1,002,841; Sept. 12; Sp. p. 1464; Gaz. vol. 170; p. 260.

Alphabetical list of patentees—Continued.

Harris, William J., Pittston, Pa., assignor of one-fourth to W. F. Purcell, New York, N. Y. Photographic-printing machine. No. 981,558; Jan. 10; Sp. p. 3111; Gaz. vol. 162; p. 508.
Harris, William P., and J. R. Jenkins, Alpena, Mich. Grinding-mill. No. 992,658; May 16; Sp. p. 3918; Gaz. vol. 166; p. 698.
Harris, William T., Ellettsville, Ind. Adjustable eaves-trough hanger. No. 1,003,258; Sept. 12; Sp. p. 2368; Gaz. vol. 170; p. 406.
Harrison Bros. & Co. (See Havens, Franke S., assignor.)
Harrison, Charles N., Westfield, N. J. Tire construction. No. 997,809; July 11; Sp. p. 2593; Gaz. vol. 168; p. 445.
Harrison, Clark W., and A. C. Noad, London, England. Incandescent gas-lamp. No. 988,775; Apr. 4; Sp. p. 1042; Gaz. vol. 165; p. 166.
Harrison, Clark W., and A. C. Noad, Fulham, London, England; said Noad assignor to said Harrison. Gas-regulator. No. 987,459; Mar. 21; Sp. p. 3599; Gaz. vol. 164; p. 641.
Harrison, Dabney C., Washington, D. C. Surveying instrument. No. 984,138; Feb. 14; Sp. p. 1915; Gaz. vol. 163; p. 329.
Harrison, Edwin D. (See Shepherd, Daniel W., assignor.)
Harrison, Frank P., Covington, Ga. Electric-light fixture and hanger. No. 999,107; July 25; Sp. p. 5484; Gaz. vol. 168; p. 976.
Harrison, Frederick J. (See Wright and Harrison.)
Harrison, George R., *et al.* (See Grine, Harry A., assignor.)
Harrison, Henry B., Worcester, Mass., assignor, by mesne assignments, to D. I. Rogow, New York, N. Y. Folding-machine. No. 997,998; July 18; Sp. p. 3021; Gaz. vol. 168; p. 552.
Harrison, Herbert C., Lockport, N. Y. Radiator. No. 1,005,028; Oct. 3; Sp. p. 1002; Gaz. vol. 171; p. 167.
Harrison, James R., Peoria, Ill. Thresher-rack. No. 993,323; May 23; Sp. p. 5328; Gaz. vol. 166; p. 955.
Harrison, James R., Peoria, Ill. Thresher-rack. No. 999,716; Aug. 1; Sp. p. 1024; Gaz. vol. 169; p. 177.
Harrison, James V. (See Vincent and Harrison.)
Harrison, John P., Jr., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 989,353; Apr. 11; Sp. p. 2250; Gaz. vol. 165; p. 382.
Harrison, John W., St. Louis, Mo. Flying-machine. No. 993,987; May 30; Sp. p. 6760; Gaz. vol. 166; p. 1214.
Harrison, Joseph E., Harvey, N. D. Separator for boilers. No. 988,264; Mar. 28; Sp. p. 5317; Gaz. vol. 164; p. 941.
Harrison, Noble F., assignor of one-half to J. Waddell, Grand Rapids, Mich. Ankle-joint. No. 1,001,641; Aug. 29; Sp. p. 5203; Gaz. vol. 169; p. 964.
Harrison, Richard, London, England. Elastic-fluid turbine. No. 1,010,905; Dec. 5; Sp. p. 1127; Gaz. vol. 173; p. 177.
Harrison Safety Boiler Works. (See Gamble, Joseph W., assignor.)
Harrison Safety Boiler Works. (See Gamble and Wallem, assignors.)
Harrison Safety Boiler Works. (See Gibson, George H., assignor.)
Harrison, Thomas G. (See Hardesty and Harrison.)
Harrison, William F. (See Worth and Harrison.)
Harrison, William F., assignor to J. S. and W. P. Worth, Coatesville, Pa. Tube-welding machine. No. 993,988; May 30; Sp. p. 6763; Gaz. vol. 166; p. 1215.
Harrison, William H., New York, assignor to himself, and I. D. Thomas, Brooklyn, N. Y. Airship. No. 986,418; Mar. 7; Sp. p. 1390; Gaz. vol. 164; p. 224.
Harrison, Wilmer E. (See Parker and Harrison.)
Harriss, William H., Pawtucket, R. I. Driving mechanism. No. 1,006,938; Oct. 24; Sp. p. 5252; Gaz. vol. 171; p. 923.
Harriss, William H., Pawtucket, R. I., assignor to Empire Duplex Gin Company, New York, N. Y. Bale-cover. No. 983,492; Feb. 7; Sp. p. 502; Gaz. vol. 163; p. 80.
Harriss, William H., Pawtucket, R. I., assignor to Empire Duplex Gin Company, New York, N. Y. Roller for roller cotton-gins. No. 1,002,842; Sept. 12; Sp. p. 1465; Gaz. vol. 170; p. 260.
Harriss, William H., Pawtucket, R. I., assignor to Empire Duplex Gin Company, New York, N. Y. Roller for roller cotton-gins. No. 1,002,913; Sept. 12; Sp. p. 1653; Gaz. vol. 170; p. 286.
Harrity, Anthony. (See Gillett and Harrity.)
Harrold, Frederick F. (See Armstrong, Curry, and Harrold.)
Harrold, Harman, Canal Dover, Ohio. Suction-cleaner. No. 994,462; June 6; Sp. p. 733; Gaz. vol. 167; p. 126.
Harrop, Edwin G., Clerkenwell, London, England. Expansible flexible bracelet. No. 998,173; July 18; Sp. p. 3406; Gaz. vol. 168; p. 615.
Harrower, Lewis T., assignor to Beach Manufacturing Co., Montrose, Pa. Gage for saw-tables. No. 990,045; Apr. 18; Sp. p. 3760; Gaz. vol. 165; p. 650.
Harry B. Jay Company. (See Jay, Harry B., assignor.)
Harry, Jefferson D., Dallas, Tex. Metal storage-tank. No. 994,921; June 13; Sp. p. 1835; Gaz. vol. 167; p. 323.
Harry, John W. B., Svea, Fla. Evaporating-pan. No. 989,354; Apr. 11; Sp. p. 2256; Gaz. vol. 165; p. 382.
Harry, Owen K., Dallas, Tex. Storage-tank. No. 983,440; Feb. 7; Sp. p. 385; Gaz. vol. 163; p. 64.
Harry, Owen K., Dallas, Tex. Wall construction. No. 999,221; Aug. 1; Sp. p. 60; Gaz. vol. 169; p. 12.
Harry, Owen K., Dallas, Tex. Building construction. No. 1,011,195; Dec. 12; Sp. p. 1786; Gaz. vol. 173; p. 312.
Harry, Samuel J., Connellsville, Pa. Drill-frame. No. 1,000,404; Aug. 15; Sp. p. 2541; Gaz. vol. 169; p. 474.
Hart, Albert E., Owatonna, Minn. Welding-clamp. No. 1,007,351; Oct. 31; Sp. p. 6153; Gaz. vol. 171; p. 1122.
Hart, Alice M., Chelsea, London, England. Rendering ramie and other fabrics water-repellent and coloring the same. No. 984,665; Feb. 21; Sp. p. 3071; Gaz. vol. 163; p. 544.
Hart, Charles, Oakland, Cal., assignor to The Hart Heater Company. Combined water-heater and boiler. No. 985,343; Feb. 28; Sp. p. 4511; Gaz. vol. 163; p. 812.
Hart, Charles, Oakland, Cal., assignor to The Hart Heater Company. Water-heater. No. 993,246; May 23; Sp. p. 5174; Gaz. vol. 166; p. 929.
Hart, Charles A., Findlay, Ohio. Type-writer desk. No. 1,008,143; Nov. 7; Sp. p. 1060; Gaz. vol. 172; p. 173.
Hart, Charles E., New Britain, Conn. Hand portable grinding device. No. 1,009,243; Nov. 21; Sp. p. 3614; Gaz. vol. 172; p. 631.
Hart & Cooley Company, The. (See Goodwin and House, assignors.)
Hart & Cooley Company, The. (See Hart, Howard S., assignor.)
Hart & Cooley Company, The. (See Hasselkus, William E. B., assignor.)
Hart, Edward, Easton, Pa. Extracting potash salts and other products from silicious rocks. No. 997,671; July 11; Sp. p. 2241; Gaz. vol. 168; p. 396.
Hart, Edwin, assignor to The New England Watch Co., Waterbury, Conn. Chronograph-watch. No. 999,498; Aug. 1; Sp. p. 599; Gaz. vol. 169; p. 104.
Hart, Francis A., New York, N. Y. Apparatus for receiving electromagnetic waves. No. 984,762; Feb. 21; Sp. p. 3290; Gaz. vol. 163; p. 580.
Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Switch. No. 987,984; Mar. 28; Sp. p. 4769; Gaz. vol. 164; p. 850.
Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Switch. No. 987,985; Mar. 28; Sp. p. 4772; Gaz. vol. 164; p. 851.
Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. System for controlling electric circuits. No. 988,093; Mar. 28; Sp. p. 5004; Gaz. vol. 164; p. 887.
Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Switch. No. 988,094; Mar. 28; Sp. p. 5006; Gaz. vol. 164; p. 887.
Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Means for controlling electric circuits. No. 999,781; Aug. 8; Sp. p. 1163; Gaz. vol. 169; p. 229.
Hart, Gerald W., West Hartford, assignor to The Hart Manufacturing Company, Hartford, Conn. Switch. No. 999,782; Aug. 8; Sp. p. 1167; Gaz. vol. 169; p. 230.
Hart, Granville M., Plano, Tex. Cotton-chopper. No. 986,285; Mar. 7; Sp. p. 1098; Gaz. vol. 164; p. 177.
Hart, Harry M., assignor of one-third to J. Sauter, Cincinnati, Ohio. Shutter-holder. No. 982,718; Jan. 24; Sp. p. 5569; Gaz. vol. 162; p. 958.
Hart, Harry S., assignor to Wolff Truck Frame Company, Chicago, Ill. Car-truck. No. 993,522; May 30; Sp. p. 5779; Gaz. vol. 166; p. 1056.
Hart, Harry S., and J. O. Neikirk, assignors to Rodger Ballast Car Company, Chicago, Ill. Dump-car. No. 992,192; May 16; Sp. p. 2881; Gaz. vol. 166; p. 537.
Hart, Harry S., Chicago, J. O. Neikirk, Morgan Park, and F. W. Hahn, assignors to Rodger Ballast Car Company, Chicago, Ill. Gondola car. No. 1,010,625; Dec. 5; Sp. p. 507; Gaz. vol. 173; p. 79.
Hart Heater Company, The. (See Hart, Charles, assignor.)
Hart and Hegeman Manufacturing Company, The. (See Guett, Monroe, assignor.)
Hart, Howard S., assignor to The Hart & Cooley Company, New Britain, Conn. Ball-cage. No. 988,336; Apr. 4; Sp. p. 97; Gaz. vol. 165; p. 18.
Hart, Hubert C., Unionville, Conn. Wagon-axle clip. No. 990,733; Apr. 25; Sp. p. 5320; Gaz. vol. 165; p. 918.
Hart, Hubert C., Unionville, Conn. Manufacturing knives. No. 999,557; Aug. 1; Sp. p. 728; Gaz. vol. 169; p. 124.
Hart, James A., Trenton, N. J. Brake. No. 997,290; July 11; Sp. p. 1467; Gaz. vol. 168; p. 268.
Hart, Joseph L., Chickasha, Okla. Double-breasted-huller cotton-gin. No. 982,672; Jan. 24; Sp. p. 5473; Gaz. vol. 162; p. 944.
Hart, Josiah, Bridgeport, assignor of one-fifth to H. L. Lewis, Stratford, Conn. Resilient tire. No. 1,008,819; Nov. 14; Sp. p. 2680; Gaz. vol. 172; p. 450.
Hart, Louis E., Pinole, Cal. Filing-case and record. No. 986,000; Mar. 7; Sp. p. 537; Gaz. vol. 164; p. 85.
Hart, Louis F., assignor to The Hart Manufacturing Company, Cleveland, Ohio. Device for cutting screw-threads. No. 985,168; Feb. 28; Sp. p. 4128; Gaz. vol. 163; p. 751.

Alphabetical list of patentees—Continued.

Hart, Louis F., assignor to The Hart Manufacturing Company, Cleveland, Ohio. Chaser-dies. No. 988,467; Apr. 4; Sp. p. 380; Gaz. vol. 165; p. 61.
Hart, Louis F., assignor to The Hart Manufacturing Company, Cleveland, Ohio. Die-stock. No. 990,864; May 2; Sp. p. 87; Gaz. vol. 166; p. 16.
Hart, Louis F., assignor to The Hart Manufacturing Company, Cleveland, Ohio. Mechanism for cutting screw-threads. No. 1,005,966; Oct. 17; Sp. p. 3075; Gaz. vol. 171; p. 552.
Hart Manufacturing Company, The. (See Hart, Gerald W., assignor.)
Hart Manufacturing Company, The. (See Hart, Louis F., assignor.)
Hart Manufacturing Company, The. (See Leppert, Henry E., assignor.)
Hart Manufacturing Company, The. (See Sachs, Joseph, assignor.)
Hart, Milton H., *et al.* (See Bundy, Henry C., assignor.)
Hart, Milton H., Akron, Ohio. Nozzle. No. 992,193; May 16; Sp. p. 2884; Gaz. vol. 166; p. 537.
Hart, Milton H., Akron, Ohio, assignor of one-half to R. Many, Chicago, Ill. Door opening and closing device. No. 988,265; Mar. 28; Sp. p. 5319; Gaz. vol. 164; p. 941.
Hart, Thomas J., Jewettville, assignor to Sherwood Manufacturing Company, Buffalo, N. Y. Carbureter. No. 1,001,950; Aug. 29; Sp. p. 5902; Gaz. vol. 169; p. 1070.
Hart, Walter H., and J. P. Holtzhouser, assignor to The Stanley Works, New Britain, Conn. Emergency-exit-door fastener. No. 1,008,463; Nov. 14; Sp. p. 1907; Gaz. vol. 172; p. 326.
Hart, William H., Jr., Philadelphia, Pa. Neckwear-fastener. No. 984,428; Feb. 14; Sp. p. 2527; Gaz. vol. 163; p. 428.
Hartbauer, August W. L., St. Louis, Mo. Metallic sash. No. 985,800; Mar. 7; Sp. p. 64; Gaz. vol. 164; p. 14.
Hartel, Albert E., assignor to Universal Hartel Light Company, Philadelphia, Pa. Gas-burning light. No. 982,271; Jan. 24; Sp. p. 4632; Gaz. vol. 162; p. 804.
Härtel, Louis, and L. Kissling, Remscheid, Germany. Apparatus for use in twisting metal rods or bars. No. 983,896; Feb. 14; Sp. p. 1404; Gaz. vol. 163; p. 249.
Harter, Charles, Barberton, Ohio. Mechanical stoker. No. 989,254; Apr. 11; Sp. p. 2034; Gaz. vol. 165; p. 348.
Harter, Edward J., and A. J. Myers, Tiffin, Ohio. Apparatus for cooling chocolate candy. No. 999,164; July 25; Sp. p. 5585; Gaz. vol. 168; p. 993.
Hartfield, Oscar C. (See Hill, Roth, and Hartfield.)
Hartford, Edward V., New York, N. Y. Support for wheel-rims. No. 996,241; June 27; Sp. p. 4704; Gaz. vol. 167; p. 837.
Hartford, Edward V., New York, N. Y. Graduated shock-absorber. No. 1,000,264; Aug. 8; Sp. p. 2216; Gaz. vol. 169; p. 394.
Hartford, John D., *et al.* (See Ivor, Barry, assignor.)
Hartford Machine Screw Company, The. (See Witherell and Seward, assignors.)
Hartford Suspension Company. (See Mastrangel, Louis, assignor.)
Harth, John H., Ambia, Ind. Seed-corn hanger. No. 988,468; Apr. 4; Sp. p. 383; Gaz. vol. 165; p. 61.
Hartke, George J., Chicago, Ill. Envelop. No. 997,999; July 18; Sp. p. 3024; Gaz. vol. 168; p. 553.
Hartle, Ruddle G., New Madrid, Mo. Tire-protector. No. 990,046; Apr. 18; Sp. p. 3761; Gaz. vol. 165; p. 650.
Hartler, Julius. (See Riemer, Frank, assignor.)
Hartley, Floyd. (See Weatherman, Robert W., assignor.)
Hartley, James J., Schenectady, N. Y., assignor to General Electric Company. Knife-switch. No. 991,502; May 9; Sp. p. 1437; Gaz. vol. 166; p. 271.
Hartley, Japheth, Gobleville, Mich. Concrete-block mold. No. 990,437; Apr. 25; Sp. p. 4659; Gaz. vol. 165; p. 819.
Hartley, William, Burton-upon-Trent, England. Vapor-lamp. No. 1,001,024; Aug. 22; Sp. p. 3958; Gaz. vol. 169; p. 727.
Hartlove, Emory F., Baltimore, Md. Device for re-forming can ends. No. 983,278; Feb. 7; Sp. p. 44; Gaz. vol. 163; p. 9.
Hartman, Emil, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Sliding-tongue buckle. No. 1,004,166; Sept. 26; Sp. p. 4409; Gaz. vol. 170; p. 780.
Hartman, Ferdinand Q., Danville, Pa. Thread-breaking device for spinning-machines. No. 990,438; Apr. 25; Sp. p. 4661; Gaz. vol. 165; p. 819.
Hartman, Joseph C., Collinwood, Ohio. Railway draft device. No. 995,426; June 13; Sp. p. 2911; Gaz. vol. 167; p. 491.
Hartman, Noble W., Toledo, Ohio, assignor of one-half to G. W. Burkhart, Detroit, Mich. Window-sash. No. 1,002,396; Sept. 5; Sp. p. 508; Gaz. vol. 170; p. 71.
Hartman, Noble W., Toledo, Ohio, assignor of one-half to G. W. Burkhart, Detroit, Mich. Glass-cutting-off machine. No. 1,002,397; Sept. 5; Sp. p. 510; Gaz. vol. 170; p. 71.
Hartman, William C., assignor to The Milwaukee Separator Company, Milwaukee, Wis. Detachable distributer for cream-separators. No. 1,002,914; Sept. 12; Sp. p. 1655; Gaz. vol. 170; p. 286.
Hartmann & Braun Actien-Gesellschaft. (See Hartmann-Kempf, Robert, assignor.)
Hartmann and Braun, Aktiengesellschaft. (See Keller, Wilhelm, assignor.)
Hartmann, Carl, Woodside, N. Y. Aeroplane. No. 1,005,205; Oct. 10; Sp. p. 1360; Gaz. vol. 171; p. 251.
Hartmann, Charles F., New York, N. Y. Baking apparatus. No. 986,286; Mar. 7; Sp. p. 1100; Gaz. vol. 164; p. 177.
Hartmann, Ferdinand Q., Danville, Pa. Thread-breaking device for spinning-machines. No. 995,672; June 20; Sp. p. 3445; Gaz. vol. 167; p. 607.
Hartmann, Ferdinand Q., Danville, Pa. Thread-breaking device for spinning-machines. No. 1,003,104; Sept. 12; Sp. p. 2037; Gaz. vol. 170; p. 351.
Hartmann-Kempf, Robert, assignor to Hartmann & Braun Actien-Gesellschaft, Frankfort-on-the-Main, Germany. Frequency-measuring instrument. No. 996,713; July 4; Sp. p. 236; Gaz. vol. 168; p. 41.
Hartmann, Louis H., assignor to American Separator Company, Bainbridge, N. Y. Journal-bearing. No. 984,369; Feb. 14; Sp. p. 2415; Gaz. vol. 163; p. 408.
Hartmann Trunk Co., The. (See Wheary, George H., assignor.)
Hartmann, William, Jr., Albany, N. Y. Fire-escape. No. 993,368; May 30; Sp. p. 5452; Gaz. vol. 166; p. 1004.
Hartmann, Willy, Dresden, Germany. Rotary engine. No. 1,011,619; Dec. 12; Sp. p. 2788; Gaz. vol. 173; p. 464.
Hartness, James, Springfield, Vt. Work-supporting rest for turning-tools. No. 985,411; Feb. 28; Sp. p. 4660; Gaz. vol. 163; p. 833.
Hartnett, Christopher M., Malden, Mass. Telephone-transmitter cut-out. No. 985,169; Feb. 28; Sp. p. 4135; Gaz. vol. 163; p. 752.
Hartoch, Louis, Dusseldorf, Germany. Brooch-fastener. No. 992,659; May 16; Sp. p. 3920; Gaz. vol. 166; p. 699.
Hartog, Stephen D., assignor to The Diagraph Company, St. Louis, Mo. Stencil-machine. No. 987,626; Mar. 21; Sp. p. 3909; Gaz. vol. 164; p. 696.
Hartog, Stephen D., assignor to The Diagraph Company, St. Louis, Mo. Making stencil-machine character-punches. No. 994,463; June 6; Sp. p. 737; Gaz. vol. 167; p. 126.
Hartog, Stephen D., assignor to The Diagraph Company, St. Louis, Mo. Stencil-machine character-punch. No. 998,894; July 25; Sp. p. 5027; Gaz. vol. 168; p. 902.
Hartsaw, David W., Medford, Okla. Reinforced-concrete railway-tie and rail-fastening. No. 991,615; May 9; Sp. p. 1701; Gaz. vol. 166; p. 312.
Hartshorn, Edmund F., Newark, N. J. Attachment for train-vestibule curtains. No. 996,332; June 27; Sp. p. 4930; Gaz. vol. 167; p. 868.
Hartshorn, Stewart, Short Hills, N. J. Shade-roller. No. 982,359; Jan. 24; Sp. p. 4829; Gaz. vol. 162; p. 837.
Hartshorn, Stewart, Short Hills, assignor to Stewart Hartshorn Company, East Newark, N. J. Means for attaching fabrics to rollers. No. 996,333; June 27; Sp. p. 4932; Gaz. vol. 167; p. 868.
Hartsook, Thomas, Logansport, Ind. Train order or message delivering device. No. 1,004,022; Sept. 26; Sp. p. 4036; Gaz. vol. 170; p. 729.
Hartsough, D Maurice, Minneapolis, Minn. Shade-supporter. No. 1,003,045; Sept. 12; Sp. p. 1906; Gaz. vol. 170; p. 329.
Hartsough, D Maurice, Minneapolis, Minn. Ditching-machine. No. 1,003,046; Sept. 12; Sp. p. 1908; Gaz. vol. 170; p. 329.
Hartsough, Ralph B., Minneapolis, Minn. Adjustable bearing. No. 1,009,244; Nov. 21; Sp. p. 3616; Gaz. vol. 172; p. 631.
Hartvigsen, Charles A., Salinas, Cal. Wrench. No. 980,632; Jan. 3; Sp. p. 971; Gaz. vol. 162; p. 158.
Hartwell, Floyd S., Sioux City, Iowa. Gas-oven. No. 999,717; Aug. 1; Sp. p. 1026; Gaz. vol. 169; p. 177.
Hartwick, Edward, *et al.* (See Bair, George R., assignor.)
Hartwick, Frank L. (See Diebolt, Lewis T., assignor.)
Hartwig, Julius P. (See Olson, Gustaf R., assignor.)
Hartwig, Robert, Oakland, Cal. Aerial amusement device. No. 983,049; Jan. 31; Sp. p. 6323; Gaz. vol. 162; p. 1099.
Hartzell, Lucy B., Murray, Ky. Swingletree-clip. No. 1,008,715; Nov. 14; Sp. p. 2455; Gaz. vol. 172; p. 415.
Hartzell, Morris H., assignor to S. S. Fretz, Jr., Philadelphia, Pa. Umbrella rib and stretcher joint. No. 990,551; Apr. 25; Sp. p. 4915; Gaz. vol. 165; p. 857.
Hartzell, William F., Marion, Ohio. Throttle-valve for steam-engines. No. 994,587; June 6; Sp. p. 1010; Gaz. vol. 167; p. 168.
Harvard Electric Company, The. (See Dorff, Conrad J., assignor.)
Harvat, Frank, Eastman, Wis. Coupling-pole for traction-engines. No. 993,597; May 30; Sp. p. 5939; Gaz. vol. 166; p. 1082.
Harvey, Charles A., Chicago, Ill., assignor to Producer Gas Utilities Company. Saturating means for gas-producer systems. No. 994,390; June 6; Sp. p. 611; Gaz. vol. 167; p. 104.
Harvey, Charles J., Kidderminster, England. Operating mechanism for bellows-pumps. No. 1,008,541; Nov. 14; Sp. p. 2068; Gaz. vol. 172; p. 353.
Harvey, Earl T., Salt Lake City, Utah. Combination shovel, plow, and scraper. No. 992,871; May 23; Sp. p. 4378; Gaz. vol. 166; p. 804.

Alphabetical list of patentees—Continued.

Harvey Frost & Company. (See Welch, Walter H., assignor.)
Harvey, George. (See Robinson, Benwell, Groves, and Harvey.)
Harvey, George L., Chicago, Ill., assignor of one-half to F. H. Richards, Hartford, Conn., one-sixth to G. L. Cragg and one-sixth to O. J. Friedman, Chicago, Ill. Play-ball. No. 985,741; Feb. 28; Sp. p. 5412; Gaz. vol. 163; p. 949.
Harvey, George R., Hamilton, Ontario, Canada. Internal-combustion engine. No. 997,190; July 4; Sp. p. 1246; Gaz. vol. 168; p. 202.
Harvey, Harry D. (See Steele, David R., assignor.)
Harvey, James, Callaway, Nebr. Safety-stirrup. No. 1,005,029; Oct. 3; Sp. p. 1004; Gaz. vol. 171; p. 167.
Harvey, John G., Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Gas-stove. No. 992,660; May 16; Sp. p. 3921; Gaz. vol. 166; p. 699.
Harvey, Lindsey, assignor of one-half to W. E. Harvey, Norris, Miss. Bridle-bit. No. 992,961; May 23; Sp. p. 4588; Gaz. vol. 166; p. 836.
Harvey, Tom, Middletown, Ohio. Paper-pulp apparatus. No. 983,441; Feb. 7; Sp. p. 387; Gaz. vol. 163; p. 64.
Harvey, Velvestus P., Ashtabula, Ohio. Angle-cock. No. 1,012,132; Dec. 19; Sp. p. 3916; Gaz. vol. 173; p. 677.
Harvey, W. E. (See Harvey, Lindsey, assignor.)
Harvey, William A., Scranton, Pa. Electromagnetic display apparatus. No. 981,646; Jan. 17; Sp. p. 3293; Gaz. vol. 162; p. 560.
Harvey, William A., Scranton, Pa. Electric lamp. No. 998,895; July 25; Sp. p. 5028; Gaz. vol. 168; p. 903.
Harvie, Albert A., Ottumwa, Iowa. Mortising and centering device. No. 992,500; May 16; Sp. p. 3592; Gaz. vol. 166; p. 645.
Harvie, Albert A., Ottumwa, Iowa. Marking-gage. No. 998,688; July 25; Sp. p. 4549; Gaz. vol. 168; p. 829.
Harvie, Albert A., Ottumwa, Iowa. Knockdown carpenter's square. No. 1,008,262; Nov. 7; Sp. p. 1323; Gaz. vol. 172; p. 216.
Harvie, Albert A., assignor to M. Hardsocg, Ottumwa, Iowa. Hardening carpenters' squares and the like. No. 1,008,261; Nov. 7; Sp. p. 1321; Gaz. vol. 172; p. 216.
Harvie, Arthur H., and W. G. Davis, Dallas, Tex., assignors to Harvie-Davis Heater Company, Phoenix, Ariz. Electric heater. No. 985,344; Feb. 28; Sp. p. 4512; Gaz. vol. 163; p. 812.
Harvie-Davis Heater Company. (See Harvie and Davis, assignors.)
Harwell, James T. (See Landrum, John M., assignor.)
Harwood & Son, George S. (See Howe, Joseph B., assignor.)
Harwood and Sons, H. (See Brewer and Hawes, assignors.)
Harzmeier, Charles, St. Louis, Mo. Combined aeroplane and motor-boat. No. 990,865; May 2; Sp. p. 90; Gaz. vol. 166; p. 16.
Hasbrouck, Lewis M., New York, N. Y. Burner. No. 1,008,820; Nov. 14; Sp. p. 2682; Gaz. vol. 172; p. 451.
Hasburg, John W., Chicago, Ill. Engine heat-radiating structure. No. 987,361; Mar. 21; Sp. p. 3380; Gaz. vol. 164; p. 607.
Haselau, Otto, New York, N. Y. Flying-machine. No. 991,846; May 9; Sp. p. 2178; Gaz. vol. 166; p. 388.
Haskell, Broderick, Franklin, Pa. Brake-beam. No. 989,780; Apr. 18; Sp. p. 3191; Gaz. vol. 165; p. 560.
Haskell, Byron W. (See Roeth and Haskell.)
Haskell, Byron W., Oakland, Cal. Pump. No. 983,365; Feb. 7; Sp. p. 237; Gaz. vol. 163; p. 40.
Haskell, Edward H., *et al.* (See Dawes, Robert, assignor.)
Haskell, Herbert R., Oakland, Cal. Animal feed-bag. No. 1,007,002; Oct. 24; Sp. p. 5383; Gaz. vol. 171; p. 944.
Haskell, James G. (See Haskell, Robert J. and J. G.)
Haskell, Robert C., and E. J. Dart, Neodesha, Kans. Metallic cross-tie and rail-fastener. No. 1,006,208; Oct. 17; Sp. p. 3622; Gaz. vol. 171; p. 638.
Haskell, Robert J., Louisville, Ky., and J. G. Haskell, Washington, D. C. Flying-machine. No. 1,011,124; Dec. 5; Sp. p. 1589; Gaz. vol. 173; p. 252.
Haskins, Bradley, Milwaukee, Wis., assignor to Allis-Chalmers Company. Switch. No. 1,007,948; Nov. 7; Sp. p. 679; Gaz. vol. 172; p. 105.
Haskins, Caryl D., Schenectady, N. Y., assignor to General Electric Company. Oil-switch. No. 995,000; June 13; Sp. p. 1997; Gaz. vol. 167; p. 349.
Haskins, Caryl D., Schenectady, N. Y., assignor to General Electric Company. Driving dynamos from variable and non-variable sources of power. No. 996,334; June 27; Sp. p. 4935; Gaz. vol. 167; p. 868.
Haskins Glass Company. (See Kraatz, George L., assignor.)
Haskins, William H. (See Quilty and Haskins.)
Haskins, William H., San Jose, Cal. Dish-washing device. No. 990,047; Apr. 18; Sp. p. 3762; Gaz. vol. 165; p. 650.
Haslet, William H., Pittsburg, Pa. Concrete railway-tie. No. 984,912; Feb. 21; Sp. p. 3574; Gaz. vol. 163; p. 630.
Hassel, Gustav A., McKeesport, Pa. Metallic post. No. 992,872; May 23; Sp. p. 4380; Gaz. vol. 166; p. 804.
Hassel, Gustav A., McKeesport, assignor to Pittsburgh Track Specialty Company, Pittsburg, Pa. Combined rail-joint and tie-plate. No. 993,598; May 30; Sp. p. 5940; Gaz. vol. 166; p. 1082.
Hassel, Nels H., Los Angeles, Cal. Hat-fastener. No. 987,297; Mar. 21; Sp. p. 3258; Gaz. vol. 164; p. 587.
Hasselkus, William E. B., assignor to The Hart & Cooley Company, New Britain, Conn. Ball-grinding machine. No. 989,524; Apr. 11; Sp. p. 2608; Gaz. vol. 165; p. 440.
Hasselmann, Otto, Wiesbaden, Germany. Surgical instrument for cutting bandages. No. 989,255; Apr. 11; Sp. p. 2042; Gaz. vol. 165; p. 349.
Hassler, Samuel W., assignor of one-half to Goodling and Smyser, York, Pa. Bench-shears. No. 989,355; Apr. 11; Sp. p. 2257; Gaz. vol. 165; p. 382.
Hassloch, Julius, *et al.* (See Feldra, Robert, assignor.)
Hassmann, Carl G., assignor to Mills Novelty Company, Chicago, Ill. Coin-controlled machine. No. 988,570; Apr. 4; Sp. p. 598; Gaz. vol. 165; p. 96.
Hassmann, George E., Litchfield, Ill. Door-check. No. 990,552; Apr. 25; Sp. p. 4916; Gaz. vol. 165; p. 858.
Hast, Hilding. (See Guttormson and Hast.)
Hastain, James W. (See Lee, Thomas E., assignor.)
Hastings, Alonzo L., Chicago, Ill. Truck-frame. No. 1,006,549; Oct. 24; Sp. p. 4417; Gaz. vol. 171; p. 788.
Hastings Developing Company, The. (See Wilcox, Theodore B., assignor.)
Hastings, Herbert, Rochester, N. Y. Turn-table. No. 996,641; July 4; Sp. p. 101; Gaz. vol. 168; p. 18.
Hastings, Herbert, assignor to German-American Button Company, Rochester, N. Y. Button-feeding device. No. 1,008,032; Nov. 7; Sp. p. 833; Gaz. vol. 172; p. 132.
Hastings, Shannon D., and G. J. Engert, Spokane, Wash. Square. No. 990,355; Apr. 25; Sp. p. 4447; Gaz. vol. 165; p. 787.
Hastings, W. H. H., *et al.* (See Williams, Walter S., assignor.)
Hasty, Charles E., Elgin, assignor to Hasty Manufacturing Company, Chicago, Ill. Automatically-operable valve. No. 998,507; July 18; Sp. p. 4134; Gaz. vol. 168; p. 733.
Hasty, Charles E., assignor to Hasty Manufacturing Company, Elgin, Ill. Automatically-operable valve. No. 1,010,626; Dec. 5; Sp. p. 510; Gaz. vol. 173; p. 79.
Hasty Manufacturing Company. (See Hasty, Charles E., assignor.)
Hata, Shinkichi, Seattle, Wash. Display apparatus. No. 1,009,839; Nov. 28; Sp. p. 4884; Gaz. vol. 172; p. 882.
Hatch, Freeman R., East Bridgewater, Mass. Horseshoe attachment. No. 981,559; Jan. 10; Sp. p. 3113; Gaz. vol. 162; p. 508.
Hatch, Tracy B., Alhambra, and E. W. Goeser, Los Angeles, Cal. Suction-cleaner. No. 980,944; Jan. 10; Sp. p. 1693; Gaz. vol. 162; p. 293.
Hatch, Willard T. (See Freer and Greer, assignors.)
Hatch, William J., Montreal, Quebec, Canada. Train-heating system. No. 1,003,603; Sept. 19; Sp. p. 3095; Gaz. vol. 170; p. 558.
Hatcher, William A., Grand Rapids, Mich. Game apparatus. No. 994,256; June 6; Sp. p. 321; Gaz. vol. 167; p. 55.
Hatchett, Andrew, Louisville, Ky. Combined fishing-float and flash-light. No. 989,145; Apr. 11; Sp. p. 1790; Gaz. vol. 165; p. 311.
Hatfield, Charles B., and C. B., Jr., Cornwall-on-the-Hudson, N. Y. Motor-driven steering-axle for motor-vehicles. No. 1,012,847; Dec. 26; Sp. p. 5459; Gaz. vol. 173; p. 966.
Hatfield, Charles B. and C. B., Jr., Cornwall-on-the-Hudson, N. Y., assignors to Hatfield Company. Steering mechanism for self-propelled vehicles. No. 989,846; Apr. 18; Sp. p. 3341; Gaz. vol. 165; p. 582.
Hatfield, Christopher, New York, N. Y. Elevator guide-shoe. No. 1,002,514; Sept. 5; Sp. p. 745; Gaz. vol. 170; p. 109.
Hatfield Company. (See Hatfield, Charles B. and C. B., Jr., assignors.)
Hatfield, Frederick B. (See Motz and Hatfield.)
Hatfield, Henry S., Hove, England. Electrolytic cell. No. 1,001,589; Aug. 22; Sp. p. 5084; Gaz. vol. 169; p. 916.
Hatfield, Perkins O., New Orleans, La. Standard. No. 987,718; Mar. 28; Sp. p. 4146; Gaz. vol. 164; p. 758.
Hathaway, Horace K., Philadelphia, Pa., assignor to The Tabor Manufacturing Company, Camden, N. J. Timing device. No. 995,597; June 20; Sp. p. 3294; Gaz. vol. 167; p. 580.
Hathaway, James F. (See Thompson and Hathaway.)
Hathaway, John H., Maywood, Ill. Agitating device. No. 995,001; June 13; Sp. p. 1999; Gaz. vol. 167; p. 350.
Hathorn, Charles E., Mason City, Iowa. Motor and machine stand. No. 1,008,821; Nov. 14; Sp. p. 2683; Gaz. vol. 172; p. 451.
Hatlanek, Franz, Kladno, Austria-Hungary. Gun-barrel and analogous object. No. 1,005,115; Oct. 3; Sp. p. 1158; Gaz. vol. 171; p. 196.
Hatlay, Benjiman J. (See Turnbull and Hatlay.)
Hatlee, David H., Clifton Park, assignor of one-fourth to D. P. McQueen, Saratoga Springs, N. Y. Automobile agricultural machine. No. 996,714; July 4; Sp. p. 239; Gaz. vol. 168; p. 41.
Hatmaker, James R., Paris, France. Drying milk. (Reissue.) No. 13,232; May 2; Sp. p. 1366; Gaz. vol. 166; p. 227.

Alphabetical list of patentees—Continued.

Hattel, William H., Kalamazoo, Mich. Automobile storage-jack. No. 997,497; July 11; Sp. p. 1858; Gaz. vol. 168; p. 335.
Hattemer, Justus, West New York, N. J., assignor to Hardman, Peck & Company, New York, N. Y. Player grand piano. No. 993,247; May 23; Sp. p. 5175; Gaz. vol. 166; p. 930.
Hatten, Russell, State Center, Iowa. Combined cranking and power shaft. No. 1,006,656; Oct. 24; Sp. p. 4627; Gaz. vol. 171; p. 825.
Hattersley, George A., Norwood, and L. Koenig, assignors to The Victor Safe & Lock Co., Cincinnati, Ohio. Producing screw-threads by grinding. No. 985,412; Feb. 28; Sp. p. 4661; Gaz. vol. 163; p. 833.
Hattersley, George A., Norwood, and L. Koenig, assignors to The Victor Safe & Lock Co., Cincinnati, Ohio. Grinding-machine. No. 998,508; July 18; Sp. p. 4140; Gaz. vol. 168; p. 734.
Hattler, Emma B., New York, N. Y. Pillow-holder. No. 1,006,750; Oct. 24; Sp. p. 4816; Gaz. vol. 171; p. 856.
Hatton, Thomas F., Indianapolis, Ind. Attachment for heating-stoves. No. 980,520; Jan. 3; Sp. p. 755; Gaz. vol. 162; p. 121.
Hatz, George J., Omaha, Nebr. Door track and hanger. No. 995,673; June 20; Sp. p. 3447; Gaz. vol. 167; p. 607.
Haubentaller, Ladislaus, Ujszasz, Austria-Hungary. Combined fire and water tube boiler. No. 991,442; May 2; Sp. p. 1306; Gaz. vol. 166; p. 218.
Hauck, Philip, Elkins Park, Pa. License-tag holder for vehicles. No. 994,464; June 6; Sp. p. 738; Gaz. vol. 167; p. 126.
Haudenschild, Harry, assignor to The F. Bissell Company, Toledo, Ohio. Control mechanism. No. 1,006,749; Oct. 24; Sp. p. 4814; Gaz. vol. 171; p. 856.
Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor. No. 994,391; June 6; Sp. p. 613; Gaz. vol. 167; p. 104.
Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor. No. 994,392; June 6; Sp. p. 614; Gaz. vol. 167; p. 104.
Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor for driving tube-cleaners. No. 994,393; June 6; Sp. p. 616; Gaz. vol. 167; p. 105.
Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaner. No. 999,993; Aug. 8; Sp. p. 1603; Gaz. vol. 169; p. 302.
Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Strainer. No. 1,001,025; Aug. 22; Sp. p. 3960; Gaz. vol. 169; p. 727.
Hauer, Elmer E., assignor to the Lagonda Manufacturing Company, Springfield, Ohio. Strainer. No. 1,001,026; Aug. 22; Sp. p. 3961; Gaz. vol. 169; p. 728.
Hauer, Elmer E., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Apparatus for straining liquids. No. 1,001,027; Aug. 22; Sp. p. 3964; Gaz. vol. 169; p. 728.
Haug, Andrew. (See Babson and Haug.)
Haughwout, George W. (See Brough, Joseph, assignor.)
Haughton, Frank A., High Bridge, N. J. Steam generator and reheater. No. 989,781; Apr. 18; Sp. p. 3192; Gaz. vol. 165; p. 560.
Haugland, Elmer C., De Lamere, N. D. Fork. No. 983,710; Feb. 7; Sp. p. 976; Gaz. vol. 163; p. 155.
Haugo, Martin S., Shelly, Minn. Screen. No. 988,095; Mar. 28; Sp. p. 5008; Gaz. vol. 164; p. 888.
Haugwitz, Rudolf, Friedrichshagen, near Berlin, Germany, assignor to Actien Gesellschaft für Anilin Fabrikation of Berlin. Polyazo dye and making same. No. 999,558; Aug. 1; Sp. p. 729; Gaz. vol. 169; p. 125.
Hauk, Edwin P., *et al.* (See Broecker, Henry J., assignor.)
Haupt, Lewis M., Philadelphia, Pa. Beach-reclamation works. No. 1,010,139; Nov. 28; Sp. p. 5490; Gaz. vol. 172; p. 983.
Haury, George W., Louisville, Ky. Hydrocarbon-engine. No. 1,010,906; Dec. 5; Sp. p. 1129; Gaz. vol. 173; p. 178.
Hausdörfer, Arthur, Elberfeld, and C. Heidenreich, Leverkusen, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo triphenylmethane dye. No. 980,251; Jan. 3; Sp. p. 138; Gaz. vol. 162; p. 27.
Hausdörfer, Arthur, Elberfeld, and C. Heidenreich, Leverkusen, assignors to Farbenfabriken vorm. Freidr. Bayer & Co., Elberfeld, Germany. Azo triphenylmethane dye. No. 980,521; Jan. 3; Sp. p. 757; Gaz. vol. 162; p. 122.
Hausdörfer, Arthur, Elberfeld, and C. Heidenreich, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Triphenylmethane dye. No. 999,028; July 25; Sp. p. 5338; Gaz. vol. 168; p. 950.
Hausdorfer, Reinhold G. (See Bockus and Hausdorfer.)
Hauser, Henri, Madretsch, near Biel, Switzerland. Vernier-calipers. No. 1,002,149; Aug. 29; Sp. p. 6275; Gaz. vol. 169; p. 1134.
Hauser, Leopold, New York, N. Y. Folding case. No. 1,005,968; Oct. 17; Sp. p. 3079; Gaz. vol. 171; p. 553.
Hauser, Leopold, assignor to Hauser & Weil, New York, N. Y. Garment-hanger. No. 1,005,967; Oct. 17; Sp. p. 3078; Gaz. vol. 171; p. 553.
Hauser, Theodore, assignor to The Garvy Company, Chicago, Ill. Bed-spring support. No. 982,959; Jan. 31; Sp. p. 6110; Gaz. vol. 162; p. 1067.
Hauser, Tracy S., Northup, assignor of one-half to E. W. Mauck, Gallipolis, Ohio. Automatic car-brake. No. 997,810; July 11; Sp. p. 2595; Gaz. vol. 168; p. 445.
Hauser & Weil. (See Hauser, Leopold, assignor.)
Hausheer, Bernard, Norwich, assignor to Borden's Condensed Milk Company, New York, N. Y. Can-filling machine. No. 1,012,545; Dec. 19; Sp. p. 4748; Gaz. vol. 173; p. 816.
Hausmann, Bernard, San Francisco, Cal. Sash-lifting appliance for vertically-movable and swinging windows. No. 997,387; July 11; Sp. p. 1655; Gaz. vol. 168; p. 300.
Hauss, David J., Aurora, Ind. Electrical music-player. No. 982,814; Jan. 31; Sp. p. 5791; Gaz. vol. 162; p. 1020.
Häusser, Friedrich, Kaiserslautern, Germany. Making nitric oxid. No. 1,000,732; Aug. 15; Sp. p. 3268; Gaz. vol. 169; p. 591.
Haussner, Konrad, Eisenach, Germany. Differential-recoil gun. No. 986,387; Mar. 7; Sp. p. 1326; Gaz. vol. 164; p. 214.
Haussner, Konrad, Eisenach, Germany. Gun with differential recoil. No. 988,776; Apr. 4; Sp. p. 1046; Gaz. vol. 165; p. 167.
Haussner, Konrad, Eisenach, Germany. Differential-recoil gun. No. 994,156; June 6; Sp. p. 103; Gaz. vol. 167; p. 20.
Haussner, Konrad, Eisenach, Germany. Running-out gun. No. 997,912; July 11; Sp. p. 2812; Gaz. vol. 168; p. 480.
Hautala, Emil and W., Bruce Crossing, Mich. Trolling-hook. No. 999,559; Aug. 1; Sp. p. 730; Gaz. vol. 169; p. 125.
Hautala, Waino. (See Hautala, Emil and W.)
Hautier, Camille J., Boulogne, France. Self-propelled vehicle. No. 992,661; May 16; Sp. p. 3922; Gaz. vol. 166; p. 699.
Havard, Albert H., Urbana, Ill. Grave-brace. No. 991,981; May 9; Sp. p. 2448; Gaz. vol. 166; p. 434.
Havemeyer, John F., Ardsley-on-Hudson, N. Y. Reinforcing means for concrete. No. 1,000,519; Aug. 15; Sp. p. 2790; Gaz. vol. 169; p. 515.
Havens, Ernest, Summit, N. Y. Automobile clutch control. No. 980,777; Jan. 3; Sp. p. 1279; Gaz. vol. 162; p. 206.
Havens, Franke S., Hartford, Conn., assignor to Harrison Bros. & Co., Inc., Philadelphia, Pa. Manufacture of resin soap. No. 981,647; Jan. 17; Sp. p. 3295; Gaz. vol. 162; p. 560.
Haverhill Channeling Machine Co. (See Webster, Edwin A., assignor.) (Reissue.)
Haverhill Shoe Machinery Company. (See Pettengill, George M., assignor.)
Haviland, Edward C., assignor to Van Kannel Revolving Door Company, New York, N. Y. Pivoting device for foldable revolving doors. No. 1,010,627; Dec. 5; Sp. p. 513; Gaz. vol. 173; p. 80.
Havourd, Irvin B., Elkhart, Ind. Incubator-temperature regulator. No. 1,001,758; Aug. 29; Sp. p. 5469; Gaz. vol. 169; p. 1005.
Haw, Charles K., Kansas City, Kans. Mold for making burial-vaults. No. 987,134; Mar. 21; Sp. p. 2872; Gaz. vol. 164; p. 528.
Hawes, David H., Bridgeport, Conn. Self-feeding shaving-brush. No. 1,007,949; Nov. 7; Sp. p. 685; Gaz. vol. 172; p. 106.
Hawes, Edward H. (See Brewer and Hawes.)
Hawes, Franklin. (See Rash and Hawes.)
Hawes, Herbert E., Brooklyn, assignor of one-half to P. C. Peck, New York, N. Y. Sewing-machine. No. 999,718; Aug. 1; Sp. p. 1027; Gaz. vol. 169; p. 178.
Hawk, Hale E., Greenville, Miss. Milling cotton-seed. No. 983,711; Feb. 7; Sp. p. 977; Gaz. vol. 163; p. 155.
Hawk, Hale E., Greenville, Miss. Delinting apparatus. No. 1,006,939; Oct. 24; Sp. p. 5253; Gaz. vol. 171; p. 924.
Hawker, John T., near Xenia, Ohio. Cultivator. No. 1,010,362; Nov. 28; Sp. p. 5943; Gaz. vol. 172; p. 1057.
Hawkes, Albert H., New York, N. Y. Arc-light diffuser. No. 1,008,329; Nov. 14; Sp. p. 1524; Gaz. vol. 172; p. 279.
Hawkes, Benjamin C., Chicago, Ill. Cardboard-enameling machine. No. 997,672; July 11; Sp. p. 2243; Gaz. vol. 168; p. 396.
Hawkes, Frank E., Boston, Mass. Hair-drying device. No. 1,004,646; Oct. 3; Sp. p. 207; Gaz. vol. 171; p. 36.
Hawkins, Earl L., Fairmont, W. Va. Harrow. No. 986,056; Mar. 7; Sp. p. 641; Gaz. vol. 164; p. 103.
Hawkins, Earle. (See Barlow, Wesley, assignor.)
Hawkins, Edward C., Allegheny, Pa., assignor to Skelotree Company. Device for shaping shoes. No. 990,866; May 2; Sp. p. 91; Gaz. vol. 166; p. 17.
Hawkins, Frank H., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-splitting device. No. 1,003,181; Sept. 12; Sp. p. 2195; Gaz. vol. 170; p. 377.
Hawkins, Henry and S. H., Chelmsford, England. Propeller. No. 1,001,951; Aug. 29; Sp. p. 5906; Gaz. vol. 169; p. 1071.
Hawkins, J. C. (See Bump, George P., assignor.)
Hawkins, Joseph W., Passaic, N. J. Shaving set. No. 998,576; July 18; Sp. p. 4285; Gaz. vol. 168; p. 757.

Alphabetical list of patentees—Continued.

Hawkins, Joseph W., Passaic, N. J. Stropping-machine. No. 999,222; Aug. 1; Sp. p. 62; Gaz. vol. 169; p. 12.
Hawkins, Joseph W., Passaic, N. J. Stropping-machine. No. 1,011,429; Dec. 12; Sp. p. 2305; Gaz. vol. 173; p. 394.
Hawkins, Laurence A., Schenectady, N. Y., assignor to General Electric Company. Three-position signal. No. 1,003,902; Sept. 19; Sp. p. 3704; Gaz. vol. 170; p. 659.
Hawkins, Millard F., and J. C. Berry, Amarillo; said Berry assignor to O. S. Hawkins, Potter county, Tex. Rotary shelving and display-cabinet. No. 996,852; July 4; Sp. p. 519; Gaz. vol. 168; p. 85.
Hawkins, Oscar S. (See Hawkins and Berry, assignors.)
Hawkins, Owen T., Pomona, Cal. Automobile spring-clamp. No. 1,009,410; Nov. 21; Sp. p. 4008; Gaz. vol. 172; p. 692.
Hawkins, Samuel H. (See Hawkins, Henry and S. H.)
Hawkins, V. E., *et al.* (See Silva, Claude L., assignor.)
Hawkins, William A. (See Conly and Hawkins.)
Hawkins, William L., Fort Worth, Tex. Liquid-fuel burner. No. 998,337; July 18; Sp. p. 3802; Gaz. vol. 168; p. 676.
Hawks, Arthur S., Bethlehem, Pa. Engine-stop. No. 999,994; Aug. 8; Sp. p. 1605; Gaz. vol. 169; p. 302.
Hawks, Ernest, Wichita, Kans. Car-axle. No. 992,769; May 23; Sp. p. 4143; Gaz. vol. 166; p. 767.
Hawks, Horatio C., Newton, Mass. Shade-holder. No. 999,896; July 25; Sp. p. 5031; Gaz. vol. 168; p. 903.
Hawks, Moses L., New York, N. Y. Lighting device. No. 993,678; May 30; Sp. p. 6140; Gaz. vol. 166; p. 1111.
Hawley, Cornell S., Albany, N. Y., assignor to Consolidated Car Heating Company. Electric heater. No. 992,715; May 16; Sp. p. 4025; Gaz. vol. 166; p. 719.
Hawley, Edward N., *et al.* (See Minor, Clarence R., assignor.)
Hawley, Edwin H., Washington, D. C. Oil-elevator. No. 1,007,282; Oct. 31; Sp. p. 6015; Gaz. vol. 171; p. 1097.
Hawley, Eugene W., Philadelphia, Pa. Trunk. No. 1,012,354; Dec. 19; Sp. p. 4389; Gaz. vol. 173; p. 751.
Hawley, Howard S., and J. W. Palmer, Jackson, Mich. Spinning-machine attachment. No. 1,008,144; Nov. 7; Sp. p. 1061; Gaz. vol. 172; p. 173.
Hawley, Theodore, Rumford, Me., assignor to Continental Paper Bag Company. Bundling-machine. No. 985,895; Mar. 7; Sp. p. 294; Gaz. vol. 164; p. 48.
Haworth, Albert, Luton, England. Hat-brim-wiring machine. No. 1,004,783; Oct. 3; Sp. p. 506; Gaz. vol. 171; p. 84.
Haws, Luther T., Berkeley, Cal. Sanitary drinking-faucet. No. 985,757; Feb. 28; Sp. p. 5442; Gaz. vol. 163; p. 954.
Haws, William H., assignor of one-eighth to H. Wagner and one-eighth to J. E. Rager, Johnstown, Pa. Metallic railway-tie. No. 1,010,756; Dec. 5; Sp. p. 799; Gaz. vol. 173; p. 125.
Hawthorne, Joseph M. (See Groh, Jacob B., assignor.)
Hay, Alexander J., Woonsocket, R. I. Yarn-guide for doubling or twisting machines. No. 981,082; Jan. 10; Sp. p. 2077; Gaz. vol. 162; p. 342.
Hay, Alexander L., Glace Bay, Nova Scotia, Canada. Game apparatus. No. 1,001,393; Aug. 22; Sp. p. 4724; Gaz. vol. 169; p. 852.
Hay, George G., Pittsburg, Pa. Hat-pin-point protector. No. 1,001,590; Aug. 22; Sp. p. 5087; Gaz. vol. 169; p. 916.
Hay, John, Carmel, Cal. Bed-warmer. No. 1,005,030; Oct. 3; Sp. p. 1005; Gaz. vol. 171; p. 168.
Hay, Martin M., *et al.* (See Ogden, George J., assignor.)
Hay, Robert, and P. B. Rule, Mount Pleasant, Pa. Coke-oven door. No. 1,012,848; Dec. 26; Sp. p. 5462; Gaz. vol. 173; p. 966.
Hay, Soren P., Spokane, Wash. Machine for washing milk-cans. No. 990,356; Apr. 25; Sp. p. 4448; Gaz. vol. 165; p. 787.
Haycox, Edward, Los Angeles, Cal. Mounting for divided axles. No. 992,353; May 16; Sp. p. 3298; Gaz. vol. 166; p. 594.
Hayden, Arthur C., Brockton, Mass. Printing-frame. No. 994,157; June 6; Sp. p. 105; Gaz. vol. 167; p. 20.
Hayden, Charles S. (See Leonhardt, Frederick, assignor.)
Hayden, Edward E., U. S. Navy. Fly-catching pistol. No. 980,633; Jan. 3; Sp. p. 972; Gaz. vol. 162; p. 159.
Hayden, Francis E., Granite, Colo. Drier. No. 980,252; Jan. 3; Sp. p. 140; Gaz. vol. 162; p. 28.
Hayden, George W., assignor to The Pratt & Cady Company, Hartford, Conn. Hydrant. No. 983,279; Feb. 7; Sp. p. 46; Gaz. vol. 163; p. 9.
Hayden, Henry A., assignor to J. M. Hayden, Jersey City, N. J. Combined baby-walker and chair. No. 989,966; Apr. 18; Sp. p. 3596; Gaz. vol. 165; p. 623.
Hayden, Henry A., Jersey City, N. J., assignor, by mesne assignments, to Nedyah Utilities Corporation. Mop. No. 1,002,268; Sept. 5; Sp. p. 183; Gaz. vol. 170; p. 23.
Hayden, James, Le Sueur, Minn. Hay-rack. No. 989,356; Apr. 11; Sp. p. 2258; Gaz. vol. 165; p. 383.
Hayden, Jefferson B., San Angelo, Tex. Liquid-fuel burner. No. 982,960; Jan. 31; Sp. p. 6112; Gaz. vol. 162; p. 1068.
Hayden, John C. (See Davis and Hayden.)
Hayden, Joseph L. R., Schenectady, N. Y., assignor to General Electric Company. Vapor electric device. No. 1,006,657; Oct. 24; Sp. p. 4628; Gaz. vol. 171; p. 825.
Hayden, Joseph L. R., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 981,760; Jan. 17; Sp. p. 3531; Gaz. vol. 162; p. 598.
Hayden, Joseph L. R., Schenectady, N. Y., assignor to General Electric Company. Static protector for vapor electric apparatus. No. 996,582; June 27; Sp. p. 5449; Gaz. vol. 167; p. 953.
Hayden, Joseph L. R., Schenectady, N. Y., assignor to General Electric Company. Electrolyte for electrolytic cells. No. 996,583; June 27; Sp. p. 5451; Gaz. vol. 167; p. 953.
Hayden, Joseph L. R., Schenectady, N. Y., assignor to General Electric Company. Preventing alternating-current electrolysis. No. 1,010,907; Dec. 5; Sp. p. 1132; Gaz. vol. 173; p. 178.
Hayden, Julia M. (See Hayden, Henry A., assignor.)
Hayden, Lester J., Passaic, assignor, to C. B. Westervelt, Paterson, N. J. Gas-saving attachment for gas-meters. No. 987,719; Mar. 28; Sp. p. 4148; Gaz. vol. 164; p. 758.
Hayden, Thomas N., Holly, Colo. Automobile-wheel. No. 990,867; May 2; Sp. p. 92; Gaz. vol. 166; p. 17.
Hayden, Walter, Galveston, Tex. Spring-wheel. No. 989,256; Apr. 11; Sp. p. 2043; Gaz. vol. 165; p. 349.
Hayers, Francis H., Hutchinson, Kans. Hydrocarbon-burner. No. 1,009,743; Nov. 28; Sp. p. 4681; Gaz. vol. 172; p. 849.
Hayers, Francis H., Hutchinson, Kans. Hydrocarbon-burner. No. 1,009,744; Nov. 28; Sp. p. 4682; Gaz. vol. 172; p. 850.
Hayes, Arthur W., Louisville, Ky. Pocket-recorder for expense-accounts. No. 991,300; May 2; Sp. p. 1014; Gaz. vol. 166; p. 171.
Hayes, Benjamin P., Topeka, Kans. Telegraphy. No. 987,720; Mar. 28; Sp. p. 4149; Gaz. vol. 164; p. 758.
Hayes, Benjamin P., Topeka, Kans., assignor to The American Transmitter and Manufacturing Company. Circuit making and breaking mechanism. No. 990,483; Apr. 25; Sp. p. 4743; Gaz. vol. 165; p. 834.
Hayes, Benjamin P., assignor to The American Transmitter and Manufacturing Company, Topeka, Kans. Case for telegraph-transmitters. No. 990,484; Apr. 25; Sp. p. 4746; Gaz. vol. 165; p. 834.
Hayes, Benjamin P., assignor to The American Transmitter and Manufacturing Company, Topeka, Kans. Telegraph-transmitter. No. 990,485; Apr. 25; Sp. p. 4748; Gaz. vol. 165; p. 835.
Hayes, Benjamin P., assignor to The American Transmitter and Manufacturing Company, Topeka, Kans. Telegraph-transmitter. No. 994,079; May 30; Sp. p. 6943; Gaz. vol. 166; p. 1246.
Hayes, Clarence B., Jackson, Mich. Machine for removing cleats from fellies. No. 1,010,424; Dec. 5; Sp. p. 43; Gaz. vol. 173; p. 9.
Hayes, Frank, and T. H. Lambert, El Monte, Cal. Bleaching nuts. No. 995,598; June 20; Sp. p. 3297; Gaz. vol. 167; p. 580.
Hayes, George B., Denver, Colo. Apparatus for generating motive fluid. No. 1,001,591; Aug. 22; Sp. p. 5088; Gaz. vol. 169; p. 916.
Hayes, George B., Denver, Colo. Motive-fluid generator. No. 1,001,592; Aug. 22; Sp. p. 5093; Gaz. vol. 169; p. 917.
Hayes, Harold F., *et al.* (See Garretson, Eugene, assignor.)
Hayes, James F., and A. Bowman, Soquel, Cal. Game apparatus. No. 984,139; Feb. 14; Sp. p. 1918; Gaz. vol. 163; p. 329.
Hayes, Jasper L., Olney Springs, Colo. Trap. No. 990,129; Apr. 18; Sp. p. 3922; Gaz. vol. 165; p. 676.
Hayes, Jeremiah, Everett, assignor of one-half to J. Hayes, Seattle, Wash. Propeller. No. 993,679; May 30; Sp. p. 6142; Gaz. vol. 166; p. 1111.
Hayes, John A. J., Southampton, England. Ink or color mechanism for printing machinery. No. 984,913; Feb. 21; Sp. p. 3576; Gaz. vol. 163; p. 631.
Hayes, John M. (See Matteson, George H., assignor.)
Hayes, Joseph. (See Hayes, Jeremiah, assignor.)
Hayes, Lawrence, Monongahela, Pa. Vehicle-spring. No. 986,169; Mar. 7; Sp. p. 859; Gaz. vol. 164; p. 139.
Hayes Pump & Planter Company. (See Hayes, Ralph W. E., assignor.)
Hayes, Ralph W. E., assignor of one-half to Hayes Pump & Planter Company, Galva, Ill. Cultivator. No. 1,009,663; Nov. 21; Sp. p. 4495; Gaz. vol. 172; p. 774.
Hayes, Robert, Van Horn, Iowa. Reinforced-composition railway-tie. No. 990,650; Apr. 25; Sp. p. 5123; Gaz. vol. 165; p. 891.
Hayes, Stanley W., Geneva, N. Y. Safety connecting-rod. No. 985,672; Feb. 28; Sp. p. 5230; Gaz. vol. 163; p. 924.
Hayes, Stanley W., Geneva, N. Y. Connection adjustment. No. 985,673; Feb. 28; Sp. p. 5232; Gaz. vol. 163; p. 924.
Hayes, Stanley W., Geneva, N. Y. Portable derail. No. 988,189; Mar. 28; Sp. p. 5168; Gaz. vol. 164; p. 917.
Hayes, Stanley W., Geneva, N. Y. Derail. No. 988,190; Mar. 28; Sp. p. 5171; Gaz. vol. 164; p. 917.
Hayes, Stanley W., Geneva, N. Y. Derail. No. 1,007,102; Oct. 31; Sp. p. 5613; Gaz. vol. 171; p. 1032.
Hayes, Thomas O., *et al.* (See Gambill and Woods, assignors.)

Hayes, Walter J., Windsor, Ontario, Canada, and P. H. Deming, Grosse Pointe Farms, assignors to Fairview Manufacturing Company, Detroit, Mich. Rotary file-cabinet. No. 1,004,784; Oct. 3; Sp. p. 508; Gaz. vol. 171; p. 84.
Hayes, William J. (See Van Scoter, William, assignor.)
Haymond, Walter O., and J. O. Potter, Muncie, Ind. Electrothermal controlling apparatus. No. 987,228; Mar. 21; Sp. p. 3101; Gaz. vol. 164; p. 562.
Hayne, Edward, Ottawa, Ill. Acetylene-gas generator. No. 982,961; Jan. 31; Sp. p. 6113; Gaz. vol. 162; p. 1068.
Hayne, Levi, Schenectady, N. Y., assignor to Pike Manufacturing Company, Pike, N. H. Device for sharpening lawn-mower knives. No. 997,291; July 11; Sp. p. 1468; Gaz. vol. 168; p. 269.
Hayne, Levi, Schenectady, N. Y., assignor to Pike Manufacturing Company, Pike, N. H. Detachable crank-handle. No. 1,006,086; Oct. 17; Sp. p. 3320; Gaz. vol. 171; p. 592.
Hayne, Levi, Schenectady, N. Y., assignor to Pike Manufacturing Company, Pike, N. H. Pencil-sharpener. No. 1,008,716; Nov. 14; Sp. p. 2456; Gaz. vol. 172; p. 415.
Haynes, Charles M., Chillicothe, Ohio. Axiometer. No. 996,017; June 20; Sp. p. 4177; Gaz. vol. 167; p. 726.
Haynes, Charles M., Newark, N. J., assignor of one-half to J. O'Neil, New York, N. Y. Hanging scaffold. No. 981,261; Jan. 10; Sp. p. 2502; Gaz. vol. 162; p. 407.
Haynes, Charles M., Newark, N. J., assignor of one-half to J. O'Neil, New York, N. Y. Hanging scaffold. No. 1,004,876; Oct. 3; Sp. p. 712; Gaz. vol. 171; p. 116.
Haynes, Fred C., assignor to R. Van Bochove, Grand Rapids, Mich. Lawn-mower sharpener. No. 1,000,334; Aug. 8; Sp. p. 2354; Gaz. vol. 169; p. 417.
Haynes, Fred C., assignor to R. Van Bochove, Grand Rapids, Mich. Skate-sharpener. No. 1,006,940; Oct. 24; Sp. p. 5257; Gaz. vol. 171; p. 924.
Haynes, Robert E., Spencer, N. C. Ditcher and grader. No. 994,746; June 13; Sp. p. 1420; Gaz. vol. 167; p. 263.
Haynes, William L., Cynwyd, assignor to William Sellers & Company, Inc., Philadelphia, Pa. Gearing. No. 982,603; Jan. 24; Sp. p. 5336; Gaz. vol. 162; p. 920.
Hays, Charles O., Locust Corner, Ohio. Phonograph. No. 999,645; Aug. 1; Sp. p. 881; Gaz. vol. 169; p. 153.
Hays, Charles O., Locust Corner, Ohio. Phonograph. No. 999,646; Aug. 1; Sp. p. 883; Gaz. vol. 169; p. 153.
Hays, Franklin B., and J. M. Dinkins, assignors of fifty-three one-hundredths to W. L. Taylor, Indianapolis, Ind. Distributer for magnetos. No. 990,811; Apr. 25; Sp. p. 5485; Gaz. vol. 165; p. 945.
Hays, George L., Bellevue, Pa. Spring-wheel and tire. No. 997,388; July 11; Sp. p. 1656; Gaz. vol. 168; p. 300.
Hays, Louis H., Cleveland, Ohio. Blouse. No. 983,551; Feb. 7; Sp. p. 655; Gaz. vol. 163; p. 100.
Hays, Solomon B., Buchanan, Tenn. Thill-support. No. 1,006,941; Oct. 24; Sp. p. 5258; Gaz. vol. 171; p. 924.
Hays, Thomas O., *et al.* (See Gambill and Woods, assignors.)
Hayton, James, Salt Lake City, Utah. Revolving plane. No. 1,006,846; Oct. 24; Sp. p. 5057; Gaz. vol. 171; p. 891.
Hayward, Elmer L., Davenport, Iowa. Track-moving machine. No. 1,000,908; Aug. 15; Sp. p. 3634; Gaz. vol. 169; p. 653.
Hayward, Eugene, assignor of one-half to H. M. Mason and one-half to A. Richter, Sturgis, Mich. Shade and curtain holder. No. 1,003,403; Sept. 12; Sp. p. 2641; Gaz. vol. 170; p. 454.
Hayward, Henry E., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., and Philadelphia, Pa. Chain-link. No. 982,058; Jan. 17; Sp. p. 4215; Gaz. vol. 162; p. 702.
Hayward, Henry E., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain-link. No. 993,248; May 23; Sp. p. 5176; Gaz. vol. 166; p. 930.
Hayward, Henry E., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain-links. No. 995,137; June 13; Sp. p. 2277; Gaz. vol. 167; p. 394.
Hayward, Henry E., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain-link. No. 998,509; July 18; Sp. p. 4145; Gaz. vol. 168; p. 734.
Hayward, Henry E., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain-link. No. 1,009,510; Nov. 21; Sp. p. 4221; Gaz. vol. 172; p. 726.
Hayward, Henry E., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain-link. No. 1,011,781; Dec. 12; Sp. p. 3098; Gaz. vol. 173; p. 519.
Hayward, Judson, Hackensack, N. J. Excavating and conveying apparatus. No. 1,000,677; Aug. 15; Sp. p. 3158; Gaz. vol. 169; p. 572.
Hayward, Richard D. (See Nye and Hayward.)
Hayward, Richard D., Warsaw, Ind. Egg-candler. No. 1,007,198; Oct. 31; Sp. p. 5849; Gaz. vol. 171; p. 1068.
Haywood, Daniel H., New York, N. Y. Means for operating bridges and the like. No. 980,522; Jan. 3; Sp. p. 758; Gaz. vol. 162; p. 122.
Haywood, Daniel H., New York, N. Y. Bolt-anchor. No. 983,442; Feb. 7; Sp. p. 388; Gaz. vol. 163; p. 64.
Haywood, Daniel H., New York, N. Y. Bolt-anchor. No. 987,229; Mar. 21; Sp. p. 3103; Gaz. vol. 164; p. 563.
Haywood, Daniel H., New York, N. Y. Sound recording and reproducing machine. No. 995,347; June 13; Sp. p. 2711; Gaz. vol. 167; p. 464.
Haywood, Daniel H., New York, N. Y., assignor, by mesne assignments, to American Gas & Power Co. Carbureter. No. 982,490; Jan. 24; Sp. p. 5115; Gaz. vol. 162; p. 882.
Hayworth, Lawrence. (See Drake, Chester T., assignor.)
Hazard-Flamand, Louis H. A. B. M., Boulogne-sur-Seine, France, assignor to International Oxygen Company. Electrolytic apparatus. No. 1,003,456; Sept. 19; Sp. p. 2763; Gaz. vol. 170; p. 506.
Hazard, Harry C., Baltimore, Md. Stocking-supporter. No. 1,004,254; Sept. 26; Sp. p. 4581; Gaz. vol. 170; p. 810.
Hazard, Paul A., Chicago, Ill. Book-stand. No. 991,616; May 9; Sp. p. 1703; Gaz. vol. 166; p. 313.
Hazard, Thomas T., Arroyo Grande, Cal. Gate-opener. No. 1,009,511; Nov. 21; Sp. p. 4221; Gaz. vol. 172; p. 726.
Hazelrigg, Ross, Alameda, Cal. Combined door knob and bell. No. 1,009,512; Nov. 21; Sp. p. 4223; Gaz. vol. 172; p. 727.
Hazelrigg, Ross, Oakland, Cal., assignor to Fly-Inn-Trap Co. Insect-trap. No. 980,253; Jan. 3; Sp. p. 141; Gaz. vol. 162; p. 28.
Hazelrigg, Ross, assignor of one-half to W. R. Thomas, Oakland, Cal. Gun. No. 981,418; Jan. 10; Sp. p. 2853; Gaz. vol. 162; p. 461.
Hazelrigg, Ross, Oakland, Cal., assignor to Vaco Manufacturing Company. Vacuum supporting device. No. 993,989; May 30; Sp. p. 6765; Gaz. vol. 166; p. 1215.
Hazelrigg, Ross, Alameda, Cal., assignor to Vaco Manufacturing Company. Vacuum supporting device. No. 1,010,363; Nov. 28; Sp. p. 5943; Gaz. vol. 172; p. 1057.
Hazelton, Charlotte, New York, N. Y. Exerciser. No. 980,634; Jan. 3; Sp. p. 974; Gaz. vol. 162; p. 159.
Hazelton, Orrin L. (See Plaisted, Albert C., assignor.)
Hazen, Louis R., Hudson, Mich. Waste-paper press. No. 1,003,739; Sept. 19; Sp. p. 3392; Gaz. vol. 170; p. 605.
Headen, Frank H., East St. Louis, Ill. Feed-regulator. No. 996,760; July 4; Sp. p. 324; Gaz. vol. 168; p. 55.
Headson, Frank A., assignor to H. W. Johns-Manville Company, Milwaukee, Wis. Rubber fabric. No. 989,967; Apr. 18; Sp. p. 3598; Gaz. vol. 165; p. 624.
Headson, Frank A., Milwaukee, Wis., assignor, by mesne assignments, to The Asbestos Brake Company. Brake-band lining. No. 997,498; July 11; Sp. p. 1860; Gaz. vol. 168; p. 336.
Heady, Harry, St. Louis, Mo. Apparatus for cleaning sandpaper or sand-belts. No. 986,170; Mar. 7; Sp. p. 860; Gaz. vol. 164; p. 139.
Heaguey, Charles J., New Brunswick, N. J. Rail-joint. No. 992,558; May 16; Sp. p. 3725; Gaz. vol. 166; p. 666.
Heald, James N., assignor to The Heald Machine Company, Worcester, Mass. Grinding-machine. No. 1,006,550; Oct. 24; Sp. p. 4420; Gaz. vol. 171; p. 788.
Heald, John L., Alamogordo, N. Mex. Centrifugal pump. No. 983,137; Jan. 31; Sp. p. 6481; Gaz. vol. 162; p. 1127.
Heald Machine Company, The. (See Heald, James N., assignor.)
Healey & Co. (See Douglas, William H., assignor.)
Healey, Hattie L., (now by marriage Hattie L. Felch.) (See Bray, William H., assignor.)
Healey, Herbert C., *et al.* (See Bowers, George W., assignor.)
Healey, William P. (See Mead, Howard G., assignor.)
Healy, Christopher J., Brooklyn, N. Y. Varnish-filter. No. 1,000,405; Aug. 15; Sp. p. 2542; Gaz. vol. 169; p. 474.
Healy, Christopher J., New York, assignor of three-eighths to C. Brueckner, Brooklyn, N. Y., and one-fourth to J. Hamilton, East Orange, N. J. Thin leaf-like sheets and making the same. No. 990,261; Apr. 25; Sp. p. 4232; Gaz. vol. 165; p. 755.
Healy, Clarence L., Chatham, N. J., assignor to New York Quotation Company. Circuit trouble-indicator. No. 989,008; Apr. 11; Sp. p. 1508; Gaz. vol. 165; p. 264.
Healy, Mack J., Bradford, Pa. Apparatus for drawing hollow glass cylinders. No. 1,008,464; Nov. 14; Sp. p. 1909; Gaz. vol. 172; p. 326.
Healy, Mack J., assignor to Consolidated Window Glass Company, Bradford, Pa. Apparatus for drawing hollow glass articles. No. 1,008,465; Nov. 14; Sp. p. 1911; Gaz. vol. 172; p. 327.
Heaney, William A., and A. C. Beymer, Cleveland, Ohio. Window-screen. No. 982,360; Jan. 24; Sp. p. 4832; Gaz. vol. 162; p. 837.
Heany Fire-Proof Wire Company. (See Heany, John A., assignor.)
Heany Fire-Proof Wire Company. (See Hofheimer, Arthur, assignor.)
Heany, John A., York, Pa., assignor to Heany Fire-Proof Wire Company, New York, N. Y. Machine for carding flocculent material. No. 1,002,515; Sept. 5; Sp. p. 746; Gaz. vol. 170; p. 109.
Heap & Co., Wm. (See Lauzon, Calvin A., assignor.)
Heaphy, John W., Philadelphia, Pa. Electroplating-machine. No. 986,823; Mar. 14; Sp. p. 2267; Gaz. vol. 164; p. 392.

Alphabetical list of patentees—Continued.

Heard, George M. D., Niagara Falls, N. Y. Ratchet-brace. No. 1,011,782; Dec. 12; Sp. p. 3098; Gaz. vol. 173; p. 519.
Heard Manufacturing Company. (See Rodenbeck, Henry W., assignor.)
Hearron, William D., Loveland, Colo. Combination-inkstand. No. 1,010,364; Nov. 28; Sp. p. 5944; Gaz. vol. 172; p. 1057.
Hearst, Edwin J., High Point, N. C. Device for straightening matrices. No. 997,811; July 11; Sp. p. 2596; Gaz. vol. 168; p. 446.
Hearst, John W., Oakland, Cal. Storage-battery attachment for airships. No. 984,667; Feb. 21; Sp. p. 3072; Gaz. vol. 163; p. 544.
Hearst, John W., Oakland, Cal. Propeller-wheel for airships. No. 984,812; Feb. 21; Sp. p. 3388; Gaz. vol. 163; p. 597.
Heaslet, James G., Detroit, assignor of one-half to W. E. Flanders, Pontiac, Mich. Differential gearing. No. 1,006,847; Oct. 24; Sp. p. 5058; Gaz. vol. 171; p. 892.
Heaslet, James G., Detroit, assignor of one-half to W. E. Flanders, Pontiac, Mich. Gearing. No. 1,010,628; Dec. 5; Sp. p. 515; Gaz. vol. 173; p. 80.
Heater, Bertney C., Minto township, Wellington county, Ontario, Canada. Brickmaker's truck. No. 985,259; Feb. 28; Sp. p. 4336; Gaz. vol. 163; p. 784.
Heater, Bertney C., Minto township, Ontario, Canada. Pallet laying and elevating machine. No. 1,009,411; Nov. 21; Sp. p. 4010; Gaz. vol. 172; p. 693.
Heater, John C., assignor of one-half to A. B. Cowing, Joliet, Ill. Type-writer for the blind. No. 980,778; Jan. 3; Sp. p. 1280; Gaz. vol. 162; p. 206.
Heath, Clarence F., Lakewood, R. I. Mail-box. No. 1,009,146; Nov. 21; Sp. p. 3366; Gaz. vol. 172; p. 596.
Heath, Delia, New York, N. Y. Fire-escape. No. 1,003,105; Sept. 12; Sp. p. 2038; Gaz. vol. 170; p. 351.
Heath, Frank, National City, Cal. Retarding mechanism. No. 1,003,457; Sept. 19; Sp. p. 2767; Gaz. vol. 170; p. 507.
Heath, Frank M., Portland, Oreg. Heel-plate. No. 1,004,647; Oct. 3; Sp. p. 208; Gaz. vol. 171; p. 36.
Heath, George W. (See Thornley, William T., assignor.)
Heath, Harry E., Hartford, Conn. Pulsameter. No. 1,010,757; Dec. 5; Sp. p. 801; Gaz. vol. 173; p. 126.
Heath, Harry E., assignor to The Baker Electric Company, Hartford, Conn. Electrostatic voltmeter. No. 993,062; May 23; Sp. p. 4789; Gaz. vol. 166; p. 871.
Heath, Ida M. (See Schaurer, George P., assignor.)
Heath, Lindsay H., Waltham, Mass. Shoe-fastener. No. 991,443; May 2; Sp. p. 1307; Gaz. vol. 166; p. 218.
Heath, Maud M. (See Tirrill, Phil S.)
Heath, Oscar, Brockton, Mass. Last-tube support. No. 999,783; Aug. 8; Sp. p. 1171; Gaz. vol. 169; p. 231.
Heath, Robert E., Yorkville, S. C. Aerodrome. No. 993,063; May 23; Sp. p. 4790; Gaz. vol. 166; p. 871.
Heath, Spencer, Washington, D. C. Propeller. No. 998,897; July 25; Sp. p. 5032; Gaz. vol. 168; p. 903.
Heath, Spencer, Washington, D. C. Propeller. No. 1,006,209; Oct. 17; Sp. p. 3623; Gaz. vol. 171; p. 638.
Heathcote, Jared J., Milwaukee, Wis. Cleaning and sterilizing apparatus. No. 985,801; Mar. 7; Sp. p. 66; Gaz. vol. 164; p. 15.
Heaton, Charles D., Jr., Providence, R. I. Explosive-engine. No. 1,005,969; Oct. 17; Sp. p. 3081; Gaz. vol. 171; p. 554.
Heaton-Peninsular Button Fastener Company. (See Parker, George E., assignor.)
Heaton-Peninsular Button Fastener Company. (See Perkins, George W., assignor.)
Heaton, Samuel W. (See Herr, Wood, and Heaton.)
Heaton, Samuel W., Philadelphia, Pa. Vacuum-bottle casing. No. 1,002,686; Sept. 5; Sp. p. 1115; Gaz. vol. 170; p. 168.
Heaton, William, Leicester, England. Slugging-machine. No. 1,005,031; Oct. 3; Sp. p. 1007; Gaz. vol. 171; p. 168.
Hebden, George R., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Switch-clip. No. 995,599; June 20; Sp. p. 3299; Gaz. vol. 167; p. 581.
Hebden, John C., Providence, R. I., and F. H. Daniell, deceased; M. B. Daniell, executrix, Franklin, N. H. Apparatus for dyeing or similarly treating textiles. No. 993,324; May 23; Sp. p. 5330; Gaz. vol. 166; p. 955.
Hebden, John C., Providence, R. I., and F. H. Daniell, deceased; M. B. Daniell, executrix, Franklin, N. H. Dyeing yarn. No. 996,761; July 4; Sp. p. 325; Gaz. vol. 168; p. 55.
Hebden, John C., Providence, R. I., and F. H. Daniell, deceased; M. B. Daniell, executrix, Franklin, N. H. Preparing and treating textile material with fluids. No. 997,292; July 11; Sp. p. 1469; Gaz. vol. 168; p. 269.
Heberling, John, Rochester, N. Y. Dumping-wagon. No. 981,419; Jan. 10; Sp. p. 2857; Gaz. vol. 162; p. 461.
Heberling, Thomas H., Cantrall, Ill. Fruit-picker. No. 987,066; Mar. 14; Sp. p. 2736; Gaz. vol. 164; p. 473.
Hebern, Edward. (See Murphy, Gordon A., assignor.)
Hebert, Joseph A., *et al.* (See Lord, Peter, assignor.)
Hebert, Joseph O., Savanna, Ill. Tobacco-pipe stem. No. 999,995; Aug. 8; Sp. p. 1606; Gaz. vol. 169; p. 303.
Hebert, Theophile W., Willimansett, Mass. Paper-feeding mechanism. No. 984,273; Feb. 14; Sp. p. 2232; Gaz. vol. 163; p. 377.
Hecht, Hugo, Berlin, Germany. Portable parquetry-scraping machine. No. 989,601; Apr. 18; Sp. p. 2818; Gaz. vol. 165; p. 498.
Hecht, Joseph L., *et al.* (See Einfeldt, Emil, assignor.)
Heckel, Edouard, Marseille, France. Composition of matter. No. 994,922; June 13; Sp. p. 1837; Gaz. vol. 167; p. 323.
Heckel, Otto, and E. H. Spellmeyer, Jr., St. Louis, Mo., assignors to Clothmeter Manufacturing Company. Cloth-measuring machine. No. 1,001,266; Aug. 22; Sp. p. 4436; Gaz. vol. 169; p. 807.
Hecker, Anton. (See Farrar and Hecker.)
Hecker, Christian, St. Louis, Mo. Non-refillable bottle. No. 987,298; Mar. 21; Sp. p. 3259; Gaz. vol. 164; p. 587.
Hecker, Edward F., New York, N. Y. Shoe-polishing machine. No. 983,138; Jan. 31; Sp. p. 6482; Gaz. vol. 162; p. 1127.
Heckethorn, William W. (See Owen, Hechethorn, and Cole.)
Heckman, Clarence E, assignor to M. E. Mosher, Rochester, N. Y. Folding chair. No. 990,734; Apr. 25; Sp. p. 5321; Gaz. vol. 165; p. 918.
Heckman, John J., assignor to Landers, Frary and Clark, New Britain, Conn. Meat-cutter. No. 984,668; Feb. 21; Sp. p. 3074; Gaz. vol. 163; p. 544.
Heckmann, Christian J. (See Johnston and Heckmann.)
Hector, William, assignor, by mesne assignments, to Automatic Electric Company, Chicago, Ill. Electrical binding-post. No. 980,945; Jan. 10; Sp. p. 1696; Gaz. vol. 162; p. 293.
Hedden, Frank W., Jersey City, N. J. Traveling stoker-grate. No. 1,010,758; Dec. 5; Sp. p. 802; Gaz. vol. 173; p. 126.
Hedden, William H. (See Busby and Hedden.)
Heddle, Robert, Nelson, British Columbia, Canada. Electrical alarm-thermometer. No. 983,443; Feb. 7; Sp. p. 390; Gaz. vol. 163; p. 64.
Hedenstrom, William J., Minneapolis, Minn. Baby-ribbon holder. No. 982,361; Jan. 24; Sp. p. 4835; Gaz. vol. 162; p. 837.
Hedfeldt, Axel T., Chicago, Ill., assignor to Hedfeldt Company. Cleaning and separating machine. No. 988,707; Apr. 4; Sp. p. 909; Gaz. vol. 165; p. 143.
Hedfeldt Company. (See Hedfeldt, Axel T., assignor.)
Hedge, Charles E., Beaverton, Oreg. Goods holding, measuring, and computing apparatus. No. 997,499; July 11; Sp. p. 1861; Gaz. vol. 168; p. 336.
Hedges, George H., assignor to M. A. Hedges., Philadelphia, Pa. Book-cover protector. No. 990,262; Apr. 25; Sp. p. 4233; Gaz. vol. 165; p. 755.
Hedges, Harry J., Houston, Tex. Ice-cream freezer. No. 1,010,046; Nov. 28; Sp. p. 5309; Gaz. vol. 172; p. 952.
Hedges, John C. (See Page and Hedges.)
Hedges, Mary A. (See Hedges, George H. and M. A.)
Hedgpeth, Edward C., Columbiana, Ala. Parcel-holder. No. 990,868; May 2; Sp. p. 94; Gaz. vol. 166; p. 17.
Hedley, Frank. (See Doyle, James S., assignor.)
Hedley, Frank, Yonkers, and J. S. Doyle, New York, N. Y. Portable total-current-registering mechanism. No. 1,004,648; Oct. 3; Sp. p. 209; Gaz. vol. 171; p. 36.
Hedman, Carl M. (See Johnson and Hedman.)
Hedrich, Herman, New York, N. Y. Salt and pepper shaker. No. 997,060; July 4; Sp. p. 995; Gaz. vol. 168; p. 159.
Hedrich, Peter, Frankfort-on-the-Main, Germany. Double-sided framework for the construction of concrete or like walls. No. 986,565; Mar. 14; Sp. p. 1722; Gaz. vol. 164; p. 305.
Hedrick, Alfred C. (See Perkins, William, assignor.)
Hedrick, Henry J., Olathe, Kans. Mail catching and delivering apparatus. No. 991,444; May 2; Sp. p. 1309; Gaz. vol. 166; p. 219.
Hedrick, Herbert S. (See Saylor, Hedrick, and Gladfelter.)
Hedrick, Perry L., Holtville, Cal. Head-gate. No. 988,777; Apr. 4; Sp. p. 1049; Gaz. vol. 165; p. 167.
Hedstrom, John P., assignor to Hanchett Swage Works, Big Rapids, Mich. Feed-finger for saw-sharpening machines. No. 984,669; Feb. 21; Sp. p. 3075; Gaz. vol. 163; p. 545.
Hedstrom, John P., assignor to Hanchett Swage Works, Big Rapids, Mich. Carriage for gang-saw-sharpening machines. No. 991,503; May 9; Sp. p. 1438; Gaz. vol. 166; p. 271.
Hedwall, Henning, Quincy, Mass. Collapsible door. No. 1,012,849; Dec. 26; Sp. p. 5463; Gaz. vol. 173; p. 967.
Heedwell, Gothard, and W. F. McNew, Boone, Iowa. Portable adjustable hay-stacker. No. 984,670; Feb. 21; Sp. p. 3077; Gaz. vol. 163; p. 545.
Heekin, Albert E., *et al.* (See Miller, Rudolph A., assignor.)
Heekin, James J., *et al.* (See Miller, Rudolph A., assignor.)
Heeley, Joseph, Wigan, England. Slicer. No. 992,559; May 16; Sp. p. 3726; Gaz. vol. 166; p. 667.

Heeney, Joseph P., East St. Louis, assignor to M. H. Foundry and Manufacturing Company, Belleville, Ill. Drinking-faucet. No. 994,747; June 13; Sp. p. 1423; Gaz. vol. 167; p. 264.
Heer, F. X., *et al.* See Hughes, Harry H., assignor.)
Heer, Henry, Ogden, Kans. Wheel-antiskidder. No. 990,651; Apr. 25; Sp. p. 5125; Gaz. vol. 165; p. 891.
Heer, Henry and T., Baltimore, Md. Automatic oil-feed for die-stocks. No. 998,338; July 18; Sp. p. 3804; Gaz. vol. 168; p. 676.
Heer, Thomas. (See Heer, Henry and T.)
Heer, Wilhelm, Bochum, Germany. Storage of large quantities of inflammable liquids and fractional delivery thereof. No. 1,010,140; Nov. 28; Sp. p. 5492; Gaz. vol. 172; p. 983.
Heer, William D., Chicago, Ill. Coin-packaging device. No. 990,357; Apr. 25; Sp. p. 4451; Gaz. vol. 165; p. 787.
Heermans, Thaddeus W., Chicago, Ill. Internal-combustion engine. No. 980,946; Jan. 10; Sp. p. 1698; Gaz. vol. 162; p. 293.
Heermans, Wallace T., Dallas, Tex. Mattress. No. 992,354; May 16; Sp. p. 3299; Gaz. vol. 166; p. 594.
Heerwagen, Leopold F. A. H., *et al.* (See Schwertner, Joseph, assignor.)
Heeter, Thomas E. (See Dawson and Heeter.)
Heeter, Thomas E., St. Louis, Mo., assignor to The Boorum & Pease Loose Leaf Book Company. File-binder. No. 1,008,145; Nov. 7; Sp. p. 1062; Gaz. vol. 172; p. 173.
Heffelfinger, Byrde B., Syracuse, Ind. Scrubbing-machine. No. 980,779; Jan. 3; Sp. p. 1283; Gaz. vol. 162; p. 207.
Heffernan, Patrick J., Bayonne, N. J. Steam-trap. No. 990,735; Apr. 25; Sp. p. 5322; Gaz. vol. 165; p. 918.
Heffner, Herman C., Martinsburg, W. Va. Stilt. No. 986,057; Mar. 7; Sp. p. 642; Gaz. vol. 164; p. 104.
Heflin, William D., Sardis, Miss. Seed-planter. No. 1,010,257; Nov. 28; Sp. p. 5714; Gaz. vol. 172; p. 1022.
Hefty, Edward, and A. B. Lamberson, Portland, Oreg. Controlling mechanism for boats. No. 1,009,664; Nov. 21; Sp. p. 4498; Gaz. vol. 172; p. 775.
Hegeman, Benjamin A., Jr., North Plainfield, N. J. Transportation-car and the like. No. 1,008,033; Nov. 7; Sp. p. 835; Gaz. vol. 172; p. 133.
Heger, George, assignor of one-half to W. F. Barenz, Milwaukee, Wis. Oscillating motor. No. 1,009,066; Nov. 21; Sp. p. 3212; Gaz. vol. 172; p. 569.
Hegge, Martin E., Sisseton, S. D. Ear-closing device. No. 997,673; July 11; Sp. p. 2246; Gaz. vol. 168; p. 397.
Heggem, Alfred G., Coraopolis, assignor to Oil Well Supply Company, Pittsburg, Pa. Underreamer. No. 982,059; Jan. 17; Sp. p. 4216; Gaz. vol. 162; p. 702.
Heggem, Alfred G., Coraopolis, assignor to Oil Well Supply Company, Pittsburg, Pa. Casing-shoe. No. 982,491; Jan. 24; Sp. p. 5119; Gaz. vol. 162; p. 883.
Heggem, Alfred G., Coraopolis, assignor to Oil Well Supply Company, Pittsburg, Pa. Hydraulic rotary drilling-machine. No. 983,050; Jan. 31; Sp. p. 6325; Gaz. vol. 162; p. 1100.
Heggem, Alfred G., Coraopolis, assignor to Oil Well Supply Company, Pittsburg, Pa. Tubing and casing elevator. No. 986,388; Mar. 7; Sp. p. 1330; Gaz. vol. 164; p. 214.
Heggem, Alfred G., Pittsburg, Pa., and G. P. Ritter, Washington, D. C. Underreamer. No. 997,812; July 11; Sp. p. 2601; Gaz. vol. 168; p. 446.
Heggen, Seward T. (See Heggen, Thomas S. and S. T.)
Heggen, Thomas S. and S. T., Hardy, Iowa. Farm-gate. No. 987,574; Mar. 21; Sp. p. 3811; Gaz. vol. 164; p. 679.
Heggie, James, Clydebank, Scotland, assignor to The Singer Manufacturing Company. Overseaming sewing-machine. No. 998,770; July 25; Sp. p. 4752; Gaz. vol. 168; p. 859.
Heggie, James, Clydebank, Scotland, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Presser-foot-lifting mechanism for sewing-machines. No. 998,845; July 25; Sp. p. 4914; Gaz. vol. 168; p. 884.
Hegwer, Herman J., Oakland, Cal., assignor to Hegwer Illuminated Target Finder Company. Illuminated target-finder. No. 995,867; June 20; Sp. p. 3887; Gaz. vol. 167; p. 675.
Hegwer Illuminated Target Finder Company. (See Hegwer, Herman J., assignor.)
Heibeck, John, Houston, Tex. Wheel. No. 1,004,023; Sept. 26; Sp. p. 4038; Gaz. vol. 170; p. 729.
Heid, Charles L. (See Clemow, Heid, and Speicher.)
Heid, John W., Jefferson, Wis. Dust-allaying attachment for furnaces. No. 1,006,210; Oct. 17; Sp. p. 3628; Gaz. vol. 171; p. 638.
Heidel, Charles H., Bethlehem, Pa. Scroll-saw machine. No. 994,394; June 6; Sp. p. 617; Gaz. vol. 167; p. 105.
Heidenheimer, Charles, New York, N. Y. Combination sled and wagon. No. 984,914; Feb. 21; Sp. p. 3578; Gaz. vol. 163; p. 631.
Heidenkamp, Joseph. (See De Bay, George C., assignor.)
Heidenreich, Carl. (See Hausdörfer and Heidenreich.)
Heidenreich, Carl, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Freidr. Bayer & Co., Eberfeld, Germany. Diazotizable dye. No. 1,009,745; Nov. 28; Sp. p. 4684; Gaz. vol. 172; p. 850.
Heider, Henry J., assignor to Heider Mfg. Co., Carroll, Iowa. Draft attachment. No. 989,146; Apr. 11; Sp. p. 1792; Gaz. vol. 165; p. 312.
Heider Mfg. Co. (See Heider, Henry J., assignor.)
Heider, Oscar, Indianapolis, Ind. Spinning toy. No. 990,130; Apr. 18; Sp. p. 3923; Gaz. vol. 165; p. 677.
Heidmann, William H., Eau Claire, Wis. Water-distributer. No. 1,005,206; Oct. 10; Sp. p. 1362; Gaz. vol. 171; p. 251.
Heidtmann, Adolph A., New York, N. Y. Trick-box. No. 988,191; Mar. 28; Sp. p. 5173; Gaz. vol. 164; p. 917.
Heikes, Arista T., Kalkaska, Mich. Potato-planter. No. 997,674; July 11; Sp. p. 2247; Gaz. vol. 168; p. 397.
Heil, Alfred O., Trenton, N. J., assignor to The McCaskey Register Company, Alliance, Ohio. Combined balance-sheet and pad-holder. No. 989,968; Apr. 18; Sp. p. 3599; Gaz. vol. 165; p. 624.
Heilbron, Jacob, *et al.* (See Hachmann and McFee, assignors.)
Heileman, Charles J. (See Wilkening, Walter H., assignor.)
Heilemann, Walter, assignor to Fried. Krupp, Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fluid-brake for guns. No. 985,170; Feb. 28; Sp. p. 4137; Gaz. vol. 163; p. 752.
Heilemann, Walter, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with barrel-recoil of uniform length. No. 1,010,908; Dec. 5; Sp. p. 1134; Gaz. vol. 173; p. 179.
Heilmann, Jean J., Paris, France. Compound spring suspension for vehicles. No. 1,001,394; Aug. 22; Sp. p. 4726; Gaz. vol. 169; p. 852.
Heim, Adam, assignor of one-half to B. Eddy, Connersville, Ind. Baling-press. No. 990,652; Apr. 25; Sp. p. 5126; Gaz. vol. 165; p. 891.
Heim, Friedrich. (See Stock and Heim.)
Heim, John B., Madison, Wis. Service and valve box for water and gas. No. 981,262; Jan. 10; Sp. p. 2504; Gaz. vol. 162; p. 407.
Heim, Lewis R., Danbury, Conn. Machine for dampening the seams of fold-collars. No. 983,051; Jan. 31; Sp. p. 6330; Gaz. vol. 162; p. 1100.
Heiman, Alfred J., *et al.* (See Ringer, John H., assignor.)
Heimer, John, St. Paul, Minn., assignor to Minnesota Manufacturers Association. Carrier. No. 980,523; Jan. 3; Sp. p. 766; Gaz. vol. 162; p. 122.
Hein, Adolf, Berlin, Germany, assignor, by mesne assignments, to The Vacuum Cleaner Company. Portable suction apparatus. No. 1,013,014; Dec. 26; Sp. p. 5840; Gaz. vol. 173; p. 1021.
Hein, Adolph A., Charleston, Wash. Combined hose-reel, automatic water-discharger, and fire-alarm. No. 985,029; Feb. 21; Sp. p. 3793; Gaz. vol. 163; p. 670.
Heindselman, George H., Provo, Utah. Fountain-pen feed-valve. No. 988,096; Mar. 28; Sp. p. 5010; Gaz. vol. 164; p. 888.
Heine, John, Redfern, New South Wales, Australia. Machine for trimming the edges of metal boxes. No. 1,007,103; Oct. 31; Sp. p. 5616; Gaz. vol. 171; p. 1032.
Heine, Wilhelm H., Honolulu, Hawaii. Fly-wheel. No. 986,978; Mar. 14; Sp. p. 2567; Gaz. vol. 164; p. 444.
Heinel, Carl, Friedenau, Germany. Fastener for metal belts. No. 983,712; Feb. 7; Sp. p. 980; Gaz. vol. 163; p. 156.
Heineman Brothers. (See Heineman, Samuel, assignor.)
Heineman, Samuel, assignor to Heineman Brothers, Baltimore, Md. Cigar-wrapper. No. 980,524; Jan. 3; Sp. p. 767; Gaz. vol. 162; p. 122.
Heinemann, Morris, Appleton, Wis. Meat-smoking device. No. 986,566; Mar. 14; Sp. p. 1723; Gaz. vol. 164; p. 305.
Heinisch, Joseph F., Topeka, Kans. Cap for lamps. No. 1,010,047; Nov. 28; Sp. p. 5312; Gaz. vol. 172; p. 952.
Heinke, Ernest H. (See Ellis, Christopher H., assignor.)
Heinmiller, Samuel H., New Hampton, Iowa. Manure-loader. No. 1,003,182; Sept. 12; Sp. p. 2197; Gaz. vol. 170; p. 377.
Heinrich, Friedrich E., Stuttgart, Germany. Bottle-closure. No. 992,662; May 16; Sp. p. 3925; Gaz. vol. 166; p. 700.
Heinrich, Stens, Differdingen, Germany. Tire for vehicle-wheels. No. 998,966; July 25; Sp. p. 5199; Gaz. vol. 168; p. 928.
Heinrich, Stephen J., Bellevue, assignor to American Electric Alarm Company, Pittsburg, Pa. Fire-alarm. No. 983,713; Feb. 7; Sp. p. 982; Gaz. vol. 163; p. 156.
Heins, Ethel V., Chicago, Ill. Powder-box. No. 980,893; Jan. 3; Sp. p. 1557; Gaz. vol. 162; p. 246.
Heins, Otto H. H., Edgewater, N. J. Spark-plug. No. 1,003,740; Sept. 19; Sp. p. 3394; Gaz. vol. 170; p. 605.
Heintzman, George C. (See Higel, Otto, assignor.)
Heinz, Nicholas L., La Salle, Ill., and W. H. Freeland, Isabella, Tenn. Furnace for roasting ores. No. 986,709; Mar. 14; Sp. p. 2021; Gaz. vol. 164; p. 354.
Heinzelman, Chester A., Belleville, Ill. Mold for forming roller-bearing cages. No. 993,523; May 30; Sp. p. 5781; Gaz. vol. 166; p. 1056.
Heinzman, May E., Bedford, N. Y. Combination-tool. No. 996,242; June 27; Sp. p. 4705; Gaz. vol. 167; p. 837.
Heiser, Frank B., Latrobe, Pa. Lock for can-closures. No. 991,982; May 9; Sp. p. 2449; Gaz. vol. 166; p. 435.
Heiser, Johannes P., Denver, Colo. Layer-loop. No. 993,249; May 23; Sp. p. 5177; Gaz. vol. 166; p. 930.
Heisler, Charles L., Schenectady, N. Y. Cylinder-drain-cock-operating mechanism. No. 989,009; Apr. 11; Sp. p. 1511; Gaz. vol. 165; p. 265.

Alphabetical list of patentees—Continued.

Heisler, Charles L., and L. G. Neely, St. Marys, Ohio. Swing-frame for pumping oil-wells. No. 989,708; Apr. 18; Sp. p. 3032; Gaz. vol. 165; p. 534.
Heisler, Joseph. (See McCarthy, Charles A., assignor.)
Heisler Locomotive Works, The. (See Fawcett and Swabb, assignors.)
Heisley, Henry E., assignor of one-half to C. G. Wilfong, Philadelphia, Pa. Feed-water regulator. No. 989,357; Apr. 11; Sp. p. 2259; Gaz. vol. 165; p. 383.
Heissenberger, John, deceased; R. E. Wolfrath, executor, assignor to Automatic Utilities Company, New York, N. Y. Bottle-stopper-clamping device. No. 1,008,263; Nov. 7; Sp. p. 1325; Gaz. vol. 172; p. 216.
Heister, John F., assignor to Phillips & Clark Stove Company, Geneva, N. Y. Cooking-stove. No. 985,802; Mar. 7; Sp. p. 68; Gaz. vol. 164; p. 15.
Heitmeyer, Henry F., Friendship, Ind. Wire-tightening device. No. 986,058; Mar. 7; Sp. p. 644; Gaz. vol. 164; p. 104.
Heitz, John J., Pittsburg, Pa. Combined gas regulator and cut-off. No. 993,164; May 23; Sp. p. 5011; Gaz. vol. 166; p. 904.
Hek, Frederick A., Roanoke, Va. Tool. No. 1,011,343; Dec. 12; Sp. p. 2142; Gaz. vol. 173; p. 366.
Hekkel, G., *et al.* (See Balázs, Johan, assignor.)
Held, Charles F., Sandusky, Ohio. Adjustable picture-hanger. No. 980,947; Jan. 10; Sp. p. 1704; Gaz. vol. 162; p. 294.
Held, Charles R., Stanford, Ill. Dynamic motor. No. 995,348; June 13; Sp. p. 2714; Gaz. vol. 167; p. 464.
Held, Frank G., Kenyon, Minn. Litter-carrier. No. 1,007,781; Nov. 7; Sp. p. 291; Gaz. vol. 172; p. 46.
Held, Henry, Richmond Hill, N. Y. Vault-light. No. 1,007,352; Oct. 31; Sp. p. 6154; Gaz. vol. 171; p. 1122.
Heldman, Nicholas L., Carmi, Ill. Wheat-separating machine. No. 987,460; Mar. 21; Sp. p. 3601; Gaz. vol. 164; p. 641.
Helfenstein, Alois, Vienna, Austria-Hungary. Electric furnace. No. 1,000,805; Aug. 15; Sp. p. 3431; Gaz. vol. 169; p. 617.
Helfenstein, Alois, Vienna, Austria-Hungary. Electric furnace. No. 1,002,843; Sept. 12; Sp. p. 1467; Gaz. vol. 170; p. 260.
Helfenstein, Alois, Vienna, Austria-Hungary. Utilizing the gases resulting from reduction operations carried out in electric furnaces, and electric furnace for carrying out the same. No. 1,002,988; Sept. 12; Sp. p. 1797; Gaz. vol. 170; p. 311.
Helfer, Armin, New York, N. Y. Flying-machine. No. 999,560; Aug. 1; Sp. p. 731; Gaz. vol. 169; p. 125.
Helfrich, Gustav P., New York, N. Y. Water-jet marker for torpedoes. No. 995,138; June 13; Sp. p. 2278; Gaz. vol. 167; p. 395.
Helfrich, Michael D. (See Henn and Helfrich.)
Helicoid Copyliner Company. (See Marsh, George A., assignor.)
Heller, Charles S., Barberton, assignor to The Moore Architectural and Engineering Company, Akron, Ohio. Transmission-gearing. No. 1,000,406; Aug. 15; Sp. p. 2544; Gaz. vol. 169; p. 475.
Heller, Julius. (See Jergle, Machal, and Heller.)
Heller & Son, L. (See Verneuil, Auguste V. L., assignor.)
Hellgren, Tobias R., Aurora, Ill. Milling-cutter. No. 998,174; July 18; Sp. p. 3407; Gaz. vol. 168; p. 615.
Hellige, Fritz, Freiburg, Breisgau, Germany. Color-measuring device. No. 998,091; July 18; Sp. p. 3239; Gaz. vol. 168; p. 586.
Helling, Julius J., Union, Mo. Packing-ring. No. 1,005,970; Oct. 17; Sp. p. 3082; Gaz. vol. 171; p. 554.
Hellmann, Karl, New York, N. Y. Water-shoe. No. 986,979; Mar. 14; Sp. p. 2568; Gaz. vol. 164; p. 444.
Hellmund, Rudolf E., Hinsdale, Ill., assignor, by mesne assignments, to General Electric Company. Induction-motor. No. 1,011,783; Dec. 12; Sp. p. 3102; Gaz. vol. 173; p. 520.
Hellweg, Henry, Milwaukee, Wis. Loose-leaf binder. No. 1,009,412; Nov. 21; Sp. p. 4013; Gaz. vol. 172; p. 693.
Helm, Charles J., and F. Helm, deceased; E. Helm, administratrix, Traverse City, Mich. Brick-molding machine. No. 998,577; July 18; Sp. p. 4286; Gaz. vol. 168; p. 757.
Helm, Clyve D. (See Blain and Helm.)
Helm, Emma, administratrix. (See Helm, Charles J. and F.)
Helm, Ernst, Wegeleben, Germany. Belt-shifter. No. 1,005,207; Oct. 10; Sp. p. 1363; Gaz. vol. 171; p. 251.
Helm, Franklyn. (See Helm, Charles J. and F.)
Helm, Virgil L., assignor to J. H. Regal, Fort Worth, Tex. Advertising-machine. No. 989,969; Apr. 18; Sp. p. 3603; Gaz. vol. 165; p. 624.
Helmer, Frank R., Janesville, Wis., and A. F. Wilke, South Beloit, Ill. Manure-loader. No. 985,260; Feb. 28; Sp. p. 4337; Gaz. vol. 163; p. 784.
Helms, Herman, Seymour, Wis. Chain-drive for vehicles. No. 1,008,330; Nov. 14; Sp. p. 1525; Gaz. vol. 172; p. 279.
Helms, Madison T., Noblesville, Ind. Pool-register. No. 983,280; Feb. 7; Sp. p. 48; Gaz. vol. 163; p. 10.
Helsel, Sanford, *et al.* (See Mackin, Alvie O., assignor.)
Helt, Albert and B., Pittsford township, Butler county, Iowa. Shovel-blade. No. 994,158; June 6; Sp. p. 107; Gaz. vol. 167; p. 20.
Helt, Benjamin. (See Helt, Albert and B.)
Heltzel, John N., Streator, Ill. Tool for working and finishing plastic masses. No. 1,005,208; Oct. 10; Sp. p. 1364; Gaz. vol. 171; p. 252.
Heltzel, John N., Streator, Ill. Mold. No. 1,005,543; Oct. 10; Sp. p. 2110; Gaz. vol. 171; p. 372.
Heltzen, William S., Davis, W. Va. Diaphragm construction. No. 984,915; Feb. 21; Sp. p. 3580; Gaz. vol. 163; p. 631.
Heltzen, William S., Davis, W. Va. Electrolytic cell. No. 1,002,989; Sept. 12; Sp. p. 1799; Gaz. vol. 170; p. 312.
Helvie, Roscoe S., Oshuskey, Okla. Carbureter and relief-valve for explosive-engines. No. 996,018; June 20; Sp. p. 4180; Gaz. vol. 167; p. 726.
Hemenover, William E., assignor to The B. F. Goodrich Company, Akron, Ohio. Shoe. No. 1,012,636; Dec. 26; Sp. p. 4966; Gaz. vol. 173; p. 893.
Hemingray, Ralph G., *et al.* (See Gray, Thomas J., assignor.)
Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 990,131; Apr. 18; Sp. p. 3924; Gaz. vol. 165; p. 677.
Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,005,831; Oct. 17; Sp. p. 2757; Gaz. vol. 171; p. 503.
Hemmer, Josef, Aix-la-Chapelle, Germany. Scouring-machine. No. 987,721; Mar. 28; Sp. p. 4151; Gaz. vol. 164; p. 759.
Hemmer, Josef, Aix-la-Chapelle, Germany. Throw-out device for fulling-machines. No. 992,770; May 23; Sp. p. 4144; Gaz. vol. 166; p. 767.
Hemmingsen, Carl J. (See Henrichsen and Hemmingsen.)
Hemphill, George A. (See Meyers, Hemphill, and Bowman.)
Hemphill, Henry B., Eldorado, Ill. Heating-stove. No. 989,358; Apr. 11; Sp. p. 2261; Gaz. vol. 165; p. 383.
Hemstreet, George P., Hastings-upon-Hudson, N. Y., assignor to The International Pavement Company, Hartford, Conn. Bituminous paving. No. 1,000,520; Aug. 15; Sp. p. 2792; Gaz. vol. 169; p. 515.
Hendee, Lew A. (See Haines, Albert, assignor.)
Henderson, Anna M. (See Henderson, Miles K. and A. M.)
Henderson, Archibald T., Clinton, Iowa. Follower for barrels and kegs. No. 1,012,076; Dec. 19; Sp. p. 3786; Gaz. vol. 173; p. 656.
Henderson, Carl, Chicago, Ill. Preventing offset in printing-presses. No. 996,642; July 4; Sp. p. 102; Gaz. vol. 168; p. 18.
Henderson, Carl, Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism for printing-presses. No. 994,675; June 6; Sp. p. 1213; Gaz. vol. 167; p. 198.
Henderson, Carl, Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism for printing-presses. (Reissue.) No. 13,336; Dec. 5; Sp. p. 1654; Gaz. vol. 173; p. 265.
Henderson, Clark T., Milwaukee, Wis. Motor-controller. No. 982,362; Jan. 24; Sp. p. 4836; Gaz. vol. 162; p. 838.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controlling system. No. 985,413; Feb. 28; Sp. p. 4666; Gaz. vol. 163; p. 834.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 994,080; May 30; Sp. p. 6947; Gaz. vol. 166; p. 1246.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 994,159; June 6; Sp. p. 108; Gaz. vol. 167; p. 21.
Henderson, Clark T., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Dynamic-brake controller. No. 1,002,687; Sept. 5; Sp. p. 1117; Gaz. vol. 170; p. 168.
Henderson, George R., assignor to Baldwin Locomotive Works, Philadelphia, Pa. Spring-casing. No. 1,003,903; Sept. 19; Sp. p. 3707; Gaz. vol. 170; p. 660.
Henderson, Henri R., St. Louis, Mo. Marine vessel. No. 1,000,678; Aug. 15; Sp. p. 3160; Gaz. vol. 169; p. 572.
Henderson, James. (See Bergren, Charles, assignor.)
Henderson, John D., Nashville, Tenn. Safety-razor. No. 1,008,410; Nov. 14; Sp. p. 1767; Gaz. vol. 172; p. 307.
Henderson, John L., Minot, N. D. Lubricant-reservoir for journal-boxes. No. 995,459; June 20; Sp. p. 2970; Gaz. vol. 167; p. 530.
Henderson, John M., Rome, N. Y. Blocking attachment for strip-rolls. No. 993,990; May 30; Sp. p. 6766; Gaz. vol. 166; p. 1216.
Henderson, John P., Sharon, Pa. Trolley attachment. No. 1,004,785; Oct. 3; Sp. p. 511; Gaz. vol. 171; p. 84.
Henderson, John S., assignor of one-third to V. Schmidt and one-third to H. Schmidt, Los Angeles, Cal. Cutter for excavators. No. 1,005,544; Oct. 10; Sp. p. 2112; Gaz. vol. 171; p. 372.
Henderson, Miles K. and A. M., Philadelphia, Pa. Water-heater. No. 995,964; June 20; Sp. p. 4069; Gaz. vol. 167; p. 708.
Henderson, Nelson H., assignor to Syracuse Industrial Gas Company, Vernon, N. Y. Purge-valve for gas-producer plants. No. 1,001,028; Aug. 22; Sp. p. 3966; Gaz. vol. 169; p. 729.
Henderson, Nelson H., assignor to Syracuse Industrial Gas Company, Vernon, N. Y. Charging means for gas-producers. No. 1,005,832; Oct. 17; Sp. p. 2760; Gaz. vol. 171; p. 503.

Henderson, Thomas D. (See Cotton and Henderson.)
Henderson, Walker, Cleveland, Ohio. Framing for concrete and cement constructions. No. 984,216; Feb. 14; Sp. p. 2101; Gaz. vol. 163; p. 357.
Henderson, William, New York, N. Y. Window-came. No. 991,847; May 9; Sp. p. 2181; Gaz. vol. 166; p. 389.
Henderson, William C., Paso Robles, Cal. Airship. No. 1,002,516; Sept. 5; Sp. p. 747; Gaz. vol. 170; p. 110.
Henderson, William M. (See Reinoehl and Henderson.)
Henderson, William M., Steelton, assignor to The Pennsylvania Steel Company, Philadelphia, Pa. Railway-switch. No. 1,005,209; Oct. 10; Sp. p. 1366; Gaz. vol. 171; p. 252.
Henderson, William W., assignor to Hydraulic Clutch Drive Co., Washington, D. C. Reversing-gearing. No. 986,631; Mar. 14; Sp. p. 1851; Gaz. vol. 164; p. 329.
Henderson, William W., assignor to Hydraulic Clutch Drive Co., Washington, D. C. Engine-support for car-trucks. No. 987,802; Mar. 28; Sp. p. 4318; Gaz. vol. 164; p. 786.
Henderson, William W., assignor to Hydraulic Clutch Drive Co., Washington, D. C. Transmission-gearing. No. 991,983; May 9; Sp. p. 2450; Gaz. vol. 166; p. 435.
Henderson, Wrex A., W. C. and A. M. Gilpin, Safford, Ariz. Self-adjusting bearing. No. 1,000,806; Aug. 15; Sp. p. 3433; Gaz. vol. 169; p. 617.
Hendren, Morris, Coatesville, Ind. Cultivator attachment. No. 983,493; Feb. 7; Sp. p. 504; Gaz. vol. 163; p. 81.
Hendren, Walter S., Nicholasville, Ky. Coin-controlled apparatus. No. 991,984; May 9; Sp. p. 2453; Gaz. vol. 166; p. 436.
Hendrich, Max W., Seattle, Wash. Soap-holding device. No. 991,848; May 9; Sp. p. 2182; Gaz. vol. 166; p. 389.
Hendricks, Fred, Lodi, Cal. Oil-burner. No. 1,001,143; Aug. 22; Sp. p. 4200; Gaz. vol. 169; p. 768.
Hendrickson, Frank, Three Forks, British Columbia, Canada. Combination-tool. No. 986,001; Mar. 7; Sp. p. 538; Gaz. vol. 164; p. 85.
Hendrickson, Fred K., assignor to Prentice Bros. Company, Worcester, Mass. Gearing for lathes. No. 984,370; Feb. 14; Sp. p. 2417; Gaz. vol. 163; p. 409.
Hendrickson, Fred K., Worcester, Mass., assignor to Prentice Bros. Company. Gearing. No. 1,006,551; Oct. 24; Sp. p. 4422; Gaz. vol. 171; p. 789.
Hendrickson, Raymond P., Long Branch, N. J. Paper-roll holder and cutter. No. 984,916; Feb. 21; Sp. p. 3581; Gaz. vol. 163; p. 631.
Hendrickson, Wren, Bolivar, Mo. Lap-robe attachment. No. 991,985; May 9; Sp. p. 2455; Gaz. vol. 166; p. 436.
Hendrix, Adam R., Chicago, Ill. Gas-engine. No. 996,643; July 4; Sp. p. 103; Gaz. vol. 168; p. 18.
Hendrix, Charles E., Ashland, Mo. Box-front fastener. No. 984,217; Feb. 14; Sp. p. 2103; Gaz. vol. 163; p. 357.
Hendrix, Cherry L., New York, N. Y., assignor to A. J. Baldwin, L. C. Hoyl, J. D. Hendrix, and G. C. Crowell, Dawson, Ga. Cooler. No. 987,461; Mar. 21; Sp. p. 3604; Gaz. vol. 164; p. 642.
Hendrix, Harrison H., Powell Station, Tenn. Projectile. (Reissue.) No. 13,258; June 20; Sp. p. 4233; Gaz. vol. 167; p. 735.
Hendrix, J. D., *et al.* (See Hendrix, Cherry L., assignor.)
Hendrix, Julius M., Lewisville, Tex. Display-rack. No. 983,052; Jan. 31; Sp. p. 6335; Gaz. vol. 162; p. 1100.
Henebiens, Henri. (See Roelants and Henebiens.)
Henery, Charles R. (See Jacobs, Heber M., assignor.)
Hengel, Frederick, and J. Addis, New York, N. Y. Foldable bed-bolster. No. 997,813; July 11; Sp. p. 2605; Gaz. vol. 168; p. 447.
Henion, Harry D., Darwin, Minn. Cement post. No. 982,137; Jan. 17; Sp. p. 4359; Gaz. vol. 162; p. 728.
Henion, Wakeman B., Chicago, Ill. Storage-tank. No. 994,676; June 6; Sp. p. 1216; Gaz. vol. 167; p. 198.
Henkel, Hugo, Dusseldorf, and O. Gessler, Augsburg, Germany. Removing printers' ink from printed paper by means of bleaching substances having an alkaline action. No. 988,874; Apr. 4; Sp. p. 1230; Gaz. vol. 165; p. 196.
Henkle, Edward A. (See Wilson and Oehmler, assignors.)
Henkle, Edward A., Philadelphia, Pa. Ship's-telegraph recorder. No. 991,504; May 9; Sp. p. 1440; Gaz. vol. 166; p. 271.
Henle, Franz, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Manufacture of amino-aryl-acidyl-amino-anthraquinones and their acidyl derivatives. No. 989,602; Apr. 18; Sp. p. 2819; Gaz. vol. 165; p. 498.
Henley, Kintchen T., and W. A. Whiteside, assignors of one-third to G. Austin, Golconda, Ill. Steam-generator. No. 993,165; May 23; Sp. p. 5012; Gaz. vol. 166; p. 905.
Henley, Roy A., assignor to The American Cement Plaster Company, Lawrence, Kans. Apparatus for making fireproof blocks. No. 1,001,952; Aug. 29; Sp. p. 5907; Gaz. vol. 169; p. 1071.
Henn, Edwin C., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Multispindle screw-machine. No. 984,274; Feb. 14; Sp. p. 2233; Gaz. vol. 163; p. 377.
Henn, Edwin C., assignor to The National Acme Manufacturing Co., Cleveland, Ohio. Single-belt drive for automatics. No. 985,590; Feb. 28; Sp. p. 5076; Gaz. vol. 163; p. 897.
Henn, Edwin C., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Metal-working machine. No. 1,005,833; Oct. 17; Sp. p. 2763; Gaz. vol. 171; p. 504.
Henn, William A., Evansville, Ind. Seat-operated automatic flushing-valve for water-closets. No. 997,448; July 11; Sp. p. 1763; Gaz. vol. 168; p. 320.
Henn, William A., and M. D. Helfrich, Evansville, Ind. Hinge. No. 997,449; July 11; Sp. p. 1764; Gaz. vol. 168; p. 320.
Hennah, William H., and A. K. W. Rissel, Wellington, New Zealand. Means for indicating a ship's deviations from its course. No. 994,677; June 6; Sp. p. 1218; Gaz. vol. 167; p. 198.
Hennah, William H., and A. K. W. Rissel, Wellington, New Zealand. Means for recording and gaging a ship's deviations from its course. No. 994,678; June 6; Sp. p. 1220; Gaz. vol. 167; p. 199.
Hennebergh, Perry, Kansas City, Kans. Fruit-picker. No. 1,010,629; Dec. 5; Sp. p. 516; Gaz. vol. 173; p. 80.
Hennessee, Claude, Macon, Ga. Fruit-gatherer. No. 1,005,032; Oct. 3; Sp. p. 1012; Gaz. vol. 171; p. 169.
Hennessey, John J., Milwaukee, Wis. Center-bearing for cars. No. 1,009,306; Nov. 21; Sp. p. 3752; Gaz. vol. 172; p. 654.
Hennessy, Leo M., Providence, R. I. Sand-core-forming machine. No. 986,980; Mar. 14; Sp. p. 2569; Gaz. vol. 164; p. 445.
Hennessy, William S., Jr. (See Smith, William J., assignor.)
Henney, Arthur, Bellevue, Ohio. Acetylene-gas generator. No. 982,962; Jan. 31; Sp. p. 6115; Gaz. vol. 162; p. 1068.
Henney, Arthur, Bellevue, Ohio. Water-feed mechanism for acetylene-gas generators. No. 998,578; July 18; Sp. p. 4292; Gaz. vol. 168; p. 758.
Hennick, Daniel G., Mitchell, Ontario, Canada. Automatic firearm. No. 1,004,424; Sept. 26; Sp. p. 4913; Gaz. vol. 170; p. 866.
Hennig, Rudolf, Hamburg, Germany. Multiple-cylinder engine. No. 999,561; Aug. 1; Sp. p. 733; Gaz. vol. 169; p. 126.
Henning, Chester E., assignor of one-half to A. J. Baldwin, Benton Ridge, Ohio. Bait-holder. No. 1,003,962; Sept. 19; Sp. p. 3885; Gaz. vol. 170; p. 682.
Henning, Georg F. E., Bergedorf, near Hamburg, Germany. Coin-ejecting apparatus. No. 998,898; July 25; Sp. p. 5034; Gaz. vol. 168; p. 904.
Henning, Louis A., Toledo, and W. B. Henning, North Baltimore, Ohio. Anchor-post. No. 1,010,759; Dec. 5; Sp. p. 813; Gaz. vol. 173; p. 126.
Henning Process Sugar Extraction Company. (See Henning, William, assignor.)
Henning, William, Lahaina, Hawaii, assignor to Henning Process Sugar Extraction Company, San Francisco, Cal. Manufacturing sugar. No. 991,505; May 9; Sp. p. 1445; Gaz. vol. 166; p. 272.
Henning, William B. (See Henning, Louis A. and W. B.)
Henninger, David P., Redondo Beach, Cal. Road-grader. No. 982,427; Jan. 24; Sp. p. 4972; Gaz. vol. 162; p. 859.
Hennings, Henry J., San Gabriel, Cal. Oil-burner. No. 981,083; Jan. 10; Sp. p. 2078; Gaz. vol. 162; p. 343.
Henrard, Berthélemy, Liege, and L. Lévêque, Antwerp, Belgium. Electric switch-operating device. No. 990,869; May 2; Sp. p. 95; Gaz. vol. 166; p. 17.
Henrich, Henry, assignor to J. R. Wood & Sons, New York, N. Y. Machine for rolling finger-rings. No. 981,560; Jan. 10; Sp. p. 3114; Gaz. vol. 162; p. 508.
Henrichs, William, Moro, Oreg. Battery-box. No. 988,337; Apr. 4; Sp. p. 98; Gaz. vol. 165; p. 18.
Henrichsen, Jacob, and C. J. Hemmingsen, Copenhagen, Denmark. Milking appliance. No. 988,708; Apr. 4; Sp. p. 912; Gaz. vol. 165; p. 144.
Henrikson, Alfred A., Chicago, Ill. Folding canoe. No. 981,191; Jan. 10; Sp. p. 2309; Gaz. vol. 162; p. 381.
Henrikson, Josef, Burntranch, Cal. Double-action force-pump. No. 991,506; May 9; Sp. p. 1447; Gaz. vol. 166; p. 272.
Henriksson, Carl, Skärsättra, assignor to C. J. Lundström, Stockholm, Sweden. Shaft-coupling. No. 985,742; Feb. 28; Sp. p. 5413; Gaz. vol. 163; p. 949.
Henriod, Charles E., Neuilly-on-the-Seine, France. Gearing. No. 980,254; Jan. 3; Sp. p. 143; Gaz. vol. 162; p. 28.
Henriquez, George A., New York, N. Y. Sugar-bowl. No. 1,002,150; Aug. 29; Sp. p. 6276; Gaz. vol. 169; p. 1135.
Henry, Asa C. (See Carter, John M., assignor.)
Henry C. Blair Company, The. (See Reed, Ernest D., assignor.)
Henry, Charles G., Cincinnati, Ohio. Boiler-furnace. No. 1,002,688; Sept. 5; Sp. p. 1123; Gaz. vol. 170; p. 169.
Henry, Charles S. B., *et al.* (See Roop, Alley, assignor.)
Henry Conolly Company. (See Magin, John G., assignor.)
Henry, David W. (See Bangs, Chester T., assignor.)
Henry Disston & Sons. (See Shallcross, Leonard, assignor.)
Henry F. Miller & Sons Piano Company. (See Paulson, Gustaf W. and R., assignors.)
Henry, Frank M., New York, N. Y. Combined sectional tire and wheel-rim. No. 1,010,258; Nov. 28; Sp. p. 5717; Gaz. vol. 172; p. 1022.

Alphabetical list of patentees—Continued.

Henry, Fred H., Philadelphia, Pa. Car-seat. No. 997,814; July 11; Sp. p. 2606; Gaz. vol. 168; p. 447.
Henry, George J., Jr., San Francisco, Cal., assignor of one-half to The Pelton Water Wheel Company. Automatic control for hydraulic nozzles. No. 993,064; May 23; Sp. p. 4792; Gaz. vol. 166; p. 871.
Henry, George J., Jr., assignor of one-half to The Pelton Water Wheel Company, San Francisco, Cal. Mechanism for controlling impact-streams. No. 1,002,517; Sept. 5; Sp. p. 749; Gaz. vol. 170; p. 110.
Henry, Guilford W., St. Louis, Mo. Folding davenport. No. 996,243; June 27; Sp. p. 4707; Gaz. vol. 167; p. 837.
Henry, John, Grand Forks, N. D. Grain-door for cars. No. 981,084; Jan. 10; Sp. p. 2079; Gaz vol. 162; p. 343.
Henry, John, Grand Forks, N. D. Grain-door. No. 984,917; Feb. 21; Sp. p. 3582; Gaz. vol. 163; p. 632.
Henry, John, Grand Forks, N. D. Grain-door for cars. No. 993,250; May 23; Sp. p. 5178; Gaz. vol. 166; p. 930.
Henry, John, Grand Forks, N. D. Grain-door for cars. No. 1,000,807; Aug. 15; Sp. p. 3434; Gaz. vol. 169; p. 618.
Henry, John B., Aspinwall, Pa. Casting chilled rolls. No. 1,011,430; Dec. 12; Sp. p. 2307; Gaz. vol. 173; p. 394.
Henry, John E., Swainsboro, Ga. Badge. No. 982,060; Jan. 17; Sp. p. 4220; Gaz. vol. 162; p. 703.
Henry, John R. (See Chaninel and Henry.)
Henry, Joshua. (See Hamilton and Henry.)
Henry Likly & Co. (See Likly and Cannan, assignors.)
Henry, Michael, Terre Haute, Ind. Grease-cup. No. 1,012,546; Dec. 19; Sp. p. 4758; Gaz. vol. 173; p. 816.
Henry R. Worthington. (See Grace, John F., assignor.)
Henry R. Worthington. (See Mueller, Otto H., assignor.)
Henry R. Worthington. (See Scheurmann, Walter, assignor.)
Henry R. Worthington. (See Sulzer, Georg, assignor.)
Henry, Robert S., Chattanooga, Tenn. Target-spotter. No. 992,716; May 16; Sp. p. 4026; Gaz. vol. 166; p. 719.
Henry and S. G. Lindeman. (See Bedford and Thumler, assignors.)
Henry Simon Ltd. (See Thomas, Lucien M., assignor.)
Henry, Squire M. (See Slay and Henry.)
Henry, William C. A., Columbus, Ohio. Stoker-feed mechanism. No. 1,000,733; Aug. 15; Sp. p. 3271; Gaz. vol. 169; p. 592.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Door-stop for door checks and closers. No. 986,710; Mar. 14; Sp. p. 2023; Gaz. vol. 164; p. 355.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Adjustable door-stop. No. 987,722; Mar. 28; Sp. p. 4152; Gaz. vol. 164; p. 759.
Henry, William K., assignor to P. & F. Corbin, New Britain, Conn. Screwless knob. No. 993,298; May 23; Sp. p. 5273; Gaz. vol. 166; p. 945.
Henschel, Charles J., assignor to C. Cory & Son, New York, N. Y. Annunciator. No. 989,970; Apr. 18; Sp. p. 3606; Gaz. vol. 165; p. 625.
Henschel, Edward, assignor to The Ideal Visible Ruler Company, New York, N. Y. Ruler and drawing instrument. No. 1,007,353; Oct. 31; Sp. p. 6155; Gaz. vol. 171; p. 1122.
Henschel, Frank W., Philadelphia, Pa. Tobacco-moistening device. No. 991,301; May 2; Sp. p. 1020; Gaz. vol. 166; p. 171.
Hensel, Henrietta, Chicago, Ill. Fire-kindler. No. 993,369; May 30; Sp. p. 5453; Gaz. vol. 166; p. 1004.
Henshaw, Holmes H. (See Frederickson, Clayton E., assignor.)
Hensle, George, New York, N. Y. Burglar-proof attachment for doors. No. 1,010,365; Nov. 28; Sp. p. 5945; Gaz. vol. 172; p. 1057.
Hensley, Thomas L., Alvarado, Tex. Railway-switch. No. 1,010,494; Dec. 5; Sp. p. 209; Gaz. vol. 173; p. 34.
Henton, John M., Edgemont, S. D. Motor disk plow. No. 1,004,167; Sept. 26; Sp. p. 4410; Gaz. vol. 170; p. 780.
Henz, Joseph, Philadelphia, Pa. Fan. No. 984,918; Feb. 21; Sp. p. 584; Gaz. vol. 163; p. 632.
Henzelman, Fritz, assignor to German American Ball Bearing Mfg. Co., Chicago, Ill. Retainer for ball and roller bearings. No. 996,985; July 4; Sp. p. 826; Gaz. vol. 168; p. 133.
Hepburn, Frederick G., Manchester Center, Vt. Waste-supporter. No. 991,302; May 2; Sp. p. 1021; Gaz. vol. 166; p. 171.
Hepburn, Melvin. (See Wheeler, Beck, and Hepburn.)
Hepler, Fay F., Kimberly, Cal. Drill-chuck. No. 990,812; Apr. 25; Sp. p. 5488; Gaz. vol. 165; p. 945.
Hepp, Daniel, Chicago, Ill. Safety-razor. No. 989,147; Apr. 11; Sp. p. 1794; Gaz. vol. 165; p. 312.
Hepworth, Dixon. (See Paull, John A., assignor.)
Heraeus, Firm of W. C. (See Haagn, Ernst, assignor.)
Herb, Daniel C., Salineville, Ohio. Baking compound. No. 980,635; Jan. 3; Sp. p. 974; Gaz. vol. 162; p. 159.
Herbeck, Carl J., Berlin, Germany. Electrical apparatus for optic signals. No. 1,003,183; Sept. 12; Sp. p. 2201; Gaz. vol. 170; p. 378.
Herbert, Albert C., Glenlyn, Va. Rail-brace. No. 1,004,255; Sept. 26; Sp. p. 4582; Gaz. vol. 170; p. 810.
Herbert, Fred, Birtley, England. Machine for making cores. No. 997,293; July 11; Sp. p. 1472; Gaz. vol. 168; p. 269.
Herbert, John F., assignor to International Railway Tie Company, New Orleans, La. Concrete railway-tie. No. 996,598; June 27; Sp. p. 5479; Gaz. vol. 167; p. 958.
Herbert, Joseph A. H., *et al.* (See Lord, Peter, assignor.)
Herbert, Thomas G., Ottawa, Ontario, Canada. Potato-digger. No. 994,513; June 6; Sp. p. 846; Gaz. vol. 167; p. 142.
Herbert, William B., West Nutley, N. J. Perpetual-adding slate and key. No. 993,680; May 30; Sp. p. 6142; Gaz. vol. 166; p. 1111.
Herbold, Louis T., Jr., Newton, Iowa. Attachment for milk-pails. No. 985,030; Feb. 21; Sp. p. 3795; Gaz. vol. 163; p. 670.
Herbst, Henry W., London, England. Spinning or twisting and balling machine. No. 997,128; July 4; Sp. p. 1113; Gaz. vol. 168; p. 181.
Herbst, William J., New Orleans, La. Figure toy. No. 1,001,395; Aug. 22; Sp. p. 4729; Gaz. vol. 169; p. 853.
Hercules Auto Starter. (See Townley, William D., assignor.)
Hercules Rotary Engine Company, The. (See Call, Hubert I., assignor.)
Hercules Suspension Tire Company. (See Graham-Woodward, Robert, assignor.)
Hercules Tire & Rubber Company. (See McCool, William A., assignor.)
Herd, Frank J., Point Richmond, assignor of one-fourth to A. R. Morrow, San Francisco, one-fourth to S. Berndt, Point Richmond, and one-fourth to D. Robertson, Oakland, Cal. Bottling-machine. No. 1,010,909; Dec. 5; Sp. p. 1136; Gaz. vol. 173; p. 179.
Herd, Philip, Johannesburg, Transvaal. Tripping-device regulator for electrical switches. No. 991,849; May 9; Sp. p. 2184; Gaz. vol. 166; p. 389.
Herder, Hugo, Holyoke, Mass. Fuel-igniting device. No. 1,012,355; Dec. 19; Sp. p. 4390; Gaz. vol. 173; p. 752.
Herendeen, Charles, Chicago, Ill. Producing flour or meal. No. 1,002,990; Sept. 12; Sp. p. 1802; Gaz. vol. 170; p. 312.
Herfurth, George S., Washington, D. C. Presser-foot attachment for sewing-machines. No. 991,986; May 9; Sp. p. 2456; Gaz. vol. 166; p. 436.
Hergarten, Joseph, Chicago, Ill. Lens-mount. No. 992,663; May 16; Sp. p. 3926; Gaz. vol. 166; p. 700.
Hergelroth, Harry G., Middletown, Pa. Folding tent. No. 1,008,331; Nov. 14; Sp. p. 1526; Gaz. vol. 172; p. 279.
Herheim, O. O., *et al.* (See Olson, Edward, assignor.)
Herhold Chair Company. (See Buryanek, Frank, assignor.)
Hering, Carl, Philadelphia, Pa. Electric-furnace process and electric furnace. No. 988,936; Apr. 4; Sp. p. 1348; Gaz. vol. 165; p. 216.
Hering, Carl, Philadelphia, Pa. Electric-furnace electrode. No. 999,719; Aug. 1; Sp. p. 1035; Gaz. vol. 169; p. 178.
Hering, Carl, Philadelphia, Pa. Electric furnace. No. 999,720; Aug. 1; Sp. p. 1039; Gaz. vol. 169; p. 179.
Hering, Carl, Philadelphia, Pa. Dry separator. No. 1,005,971; Oct. 17; Sp. p. 3082; Gaz. vol. 171; p. 554.
Hering, Charles W., Los Angeles, Cal. Speed-transmission gearing. No. 980,948; Jan. 10; Sp. p. 1705; Gaz. vol. 162; p. 294.
Heriot, George D., assignor to The Silversmiths Company, New York, N. Y. Tantalus-stand. No. 993,166; May 23; Sp. p. 5014; Gaz. vol. 166; p. 905.
Herisse, Emile, New York, N. Y. Dipping apparatus. No. 1,008,034; Nov. 7; Sp. p. 837; Gaz. vol. 172; p. 133.
Herisse, Emile, New York, N. Y. Cake-centering device for depositing-machines. No. 1,009,413; Nov. 21; Sp. p. 4016; Gaz. vol. 172; p. 694.
Hérissé, Emile, New York, N. Y. Baking-oven. No. 1,009,414; Nov. 21; Sp. p. 4017; Gaz. vol. 172; p. 694.
Herisson, Maurice, Paris, France, assignor of one-half to J. F. Mönnot, New York, N. Y. Paint and pigment. No. 992,355; May 16; Sp. p. 3300; Gaz. vol. 166; p. 594.
Herkenhoff, Anthony L. (See Smith, Claude R., assignor.)
Herle, Chester A., Rochester, N. Y. Valve-grinding tool. No. 995,002; June 13; Sp. p. 2001; Gaz. vol. 167; p. 350.
Herman, Adolph, St. Louis, Mo. Ring-mold. No. 994,395; June 6; Sp. p. 618; Gaz. vol. 167; p. 106.
Herman, Bill H., Wesson, Miss. Cattle-guard. No. 1,001,396; Aug. 22; Sp. p. 4731; Gaz. vol. 169; p. 853.
Herman, Charles, Zelienople, assignor to Herman Pneumatic Machine Company, Pittsburg, Pa. Molding-machine. No. 989,971; Apr. 18; Sp. p. 3608; Gaz. vol. 165; p. 625.
Herman, Jacob A., New York, N. Y. Skirt and skirt attachment. No. 1,007,692; Nov. 7; Sp. p. 86; Gaz. vol. 172; p. 14.
Herman, Joseph F., Washington, D. C. Overshoe for horses. No. 991,778; May 9; Sp. p. 2026; Gaz. vol. 166; p. 365.
Herman, Louis, Hillsboro, Mo. Automobile. No. 990,263; Apr. 25; Sp. p. 4234; Gaz. vol. 165; p. 755.
Herman Pneumatic Machine Company. (See Herman, Charles, assignor.)
Herman, Raphael, *et al.* (See Eden, Harold W., assignor.)
Herman, Raphael. (See Waller and Carr, assignors.)
Herman, Raymond L., and L. L. Loeb, New York, N. Y. Shock-reducer. No. 998,771; July 25; Sp. p. 4756; Gaz. vol. 168; p. 859.

Alphabetical list of patentees—Continued.

Herman, Reinhold, Crafton, Pa. Power-transmitting mechanism. No. 983,444; Feb. 7; Sp. p. 392; Gaz. vol. 163; p. 65.
Herman, Reinhold, Crafton, Pa. Power-transmitting mechanism. No. 983,445; Feb. 7; Sp. p. 402; Gaz. vol. 163; p. 65.
Herman, Samuel J., *et al.* (See Eden, Harold W., assignor.)
Herman, Willie H., Wesson, Miss. Bottle-vending machine. No. 1,013,015; Dec. 26; Sp. p. 5842; Gaz. vol. 173; p. 1022.
Hermance Machine Co. (See Marsh, Calvin D., assignor.)
Hermann, Ferdinand, and L. Schneider, McKeesport, Pa. Combination test-tool. No. 997,815; July 11; Sp. p. 2608; Gaz. vol. 168; p. 447.
Hermann, Heinrich P., Kronberg, assignor to Kunst-Plastik-Gesellschaft mit beschränkter Haftung, Frankfort-on-the-Main, Germany. Composition of matter for forming plastic wall-coverings. No. 1,007,199; Oct. 31; Sp. p. 5850; Gaz. vol. 171; p. 1068.
Hermann, Max P., Philadelphia, Pa. Pencil-holder. No. 1,007,693; Nov. 7; Sp. p. 88; Gaz. vol. 172; p. 14.
Hermann, Otto E., and E. C. De Witt, Chicago, Ill. Pill-packaging machine. No. 998,000; July 18; Sp. p. 3026; Gaz. vol. 168; p. 553.
Hermann, Seymour M., New York, N. Y. Sizing compound. No. 997,294; July 11; Sp. p. 1478; Gaz. vol. 168; p. 270.
Hermann, Seymour M., New York, N. Y. Compound for treating fabrics. No. 1,008,332; Nov. 14; Sp. p. 1528; Gaz. vol. 172; p. 280.
Hermon, James N., Dolores, Colo. Screen-door lock. No. 1,006,211; Oct. 17; Sp. p. 3629; Gaz. vol. 171; p. 638.
Herms, George A. (See Herms, Oscar W. and G. A.)
Herms, Oscar W. and G. A., Portsmouth, Ohio. Greenhouse construction. No. 980,255; Jan. 3; Sp. p. 145; Gaz. vol. 162; p. 29.
Hermsdorf, Max, assignor to Fried. Krupp, Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Pull mechanism for guns. No. 985,171; Feb. 28; Sp. p. 4139; Gaz. vol. 163; p. 753.
Hermsdorf, Max, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Safety device for gun-closures. No. 987,135; Mar. 21; Sp. p. 2877; Gaz. vol. 164; p. 528.
Hermsdorf, Max, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Recoil-gun. No. 987,462; Mar. 21; Sp. p. 3605; Gaz. vol. 164; p. 642.
Hermsdorf, Max, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Recoil-gun. No. 1,003,106; Sept. 12; Sp. p. 2040; Gaz. vol. 170; p. 351.
Hern, Joseph D., Shaler township, Allegheny county, and H. F. Veil, Etna, Pa. Railway freight-car. No. 986,981; Mar. 14; Sp. p. 2570; Gaz. vol. 164; p. 445.
Hernández, Nicolás, San Juan, Porto Rico. Sandal. No. 1,001,397; Aug. 22; Sp. p. 4732; Gaz. vol. 169; p. 853.
Herndon, James B., St. Joseph, Mo. Clutch. No. 1,010,366; Nov. 28; Sp. p. 5946; Gaz. vol. 172; p. 1057.
Herndon, Joseph J., Sharon, Kans. Rope-eye for well-drills. No. 989,257; Apr. 11; Sp. p. 2044; Gaz. vol. 165; p. 349.
Herndon, Paul H., assignor of one-fourth to F. M. Parker, Tampa, Fla. Water-tank for fowls. No. 988,266; Mar. 28; Sp. p. 5326; Gaz. vol. 164; p. 942.
Herndon, William O. (See Williams and Herndon.)
Heron, Christopher, assignor of one-fourth to W. C. Krauter and one-fourth to B. Coffey, Chicago, Ill. Trolley-guard. No. 990,870; May 2; Sp. p. 98; Gaz. vol. 166; p. 18.
Heron, Robert P., Syracuse, N. Y. Type-writer platen and other roller. No. 998,510; July 18; Sp. p. 4146; Gaz. vol. 168; p. 734.
Heron, Robert P., Syracuse, N. Y. Caster. No. 998,511; July 18; Sp. p. 4150; Gaz. vol. 168; p. 735.
Heron, Robert P., Syracuse, N. Y. Type-writer platen and other roller. No. 998,512; July 18; Sp. p. 4153; Gaz. vol. 168; p. 735.
Heron, William, Birkenhead, England. Apparatus for preparing gromets or packings for stuffing-boxes. No. 988,267; Mar. 28; Sp. p. 5328; Gaz. vol. 164; p. 942.
Héroult, Paul L. T., La Praz, assignor to Societe Electro-Metallurgique Francaise, Froges, France. Carbon-holder for electric furnaces. No. 989,148; Apr. 11; Sp. p. 1795; Gaz. vol. 165; p. 312.
Herpin, Edward P., Teague, assignor of one-half to J. W. Kay, Dallas, Tex. Hydrocarbon-burner. No. 999,165; July 25; Sp. p. 5587; Gaz. vol. 168; p. 993.
Herpolsheimer, Rudolph F., Lincoln, Nebr. Internal-combustion engine. No. 989,972; Apr. 18; Sp. p. 3610; Gaz. vol. 165; p. 625.
Herr, Henry C., Detroit, Mich., assignor, by mesne assignments, to Fiber Barrel Machinery and Manufacturing Company, Pittsburg, Pa. Barrel. No. 997,620; July 11; Sp. p. 2133; Gaz. vol. 168; p. 379.
Herr, Henry R., Lancaster, Pa. Friction-pulley. No. 986,567; Mar. 14; Sp. p. 1724; Gaz. vol. 164; p. 305.
Herr, Herbert T., Denver, Colo., assignor to G. Westinghouse, Pittsburg, Pa. Concentrating device for mineral ores. No. 986,389; Mar. 7; Sp. p. 1333; Gaz. vol. 164; p. 214.
Herr, John, Philadelphia, Pa. Polishing and scrubbing machine. No. 1,011,954; Dec. 19; Sp. p. 3498; Gaz. vol. 173; p. 612.
Herr, John, L. H. Wood, and S. W. Heaton, Philadelphia, Pa. Floor-surfacing machine. No. 1,009,245; Nov. 21; Sp. p. 3617; Gaz. vol. 172; p. 631.
Herr, Rudolph F., Berkeley Springs, W. Va. Sand-conveying apparatus. No. 995,406; June 13; Sp. p. 2848; Gaz. vol. 167; p. 483.
Herre, Alfred. (See Bauer and Herre.)
Herre, Alfred. (See Bauer, Herre, and Mayer.)
Herreshoff, Nathaniel G., Bristol, R. I. Steam-engine. No. 986,982; Mar. 14; Sp. p. 2573; Gaz. vol. 164; p. 445.
Herrick, Albert B., New York, N. Y. Electrolytic protection. No. 1,003,604; Sept. 19; Sp. p. 3097; Gaz. vol. 170; p. 558.
Herrick, Albert B., Ridgewood, N. J., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail-bond. No. 987,136; Mar. 21; Sp. p. 2879; Gaz. vol. 164; p. 529.
Herrick, Albert B., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Making homogeneous mechanical junctures. No. 1,012,077; Dec. 19; Sp. p. 3787; Gaz. vol. 173; p. 656.
Herrick, George H., Fort Madison, Iowa. Automatic mechanism for operating headlights. No. 990,871; May 2; Sp. p. 99; Gaz. vol. 166; p. 18.
Herrick, George W., St. Marys, Pa. Village telephone police-call. No. 980,256; Jan. 3; Sp. p. 146; Gaz. vol. 162; p. 29.
Herrick, Gerardus P., New York, N. Y. Rotary engine. No. 1,012,850; Dec. 26; Sp. p. 5465; Gaz. vol. 173; p. 967.
Herrick, James A., New York, N. Y. Gas-producer. No. 998,614; July 25; Sp. p. 4380; Gaz. vol. 168; p. 802.
Herrick, James A., New York, N. Y. Gas-producer. No. 999,784; Aug. 8; Sp. p. 1172; Gaz. vol. 169; p. 231.
Herrick, James A., New York, N. Y. Gas-producer. No. 1,001,398; Aug. 22; Sp. p. 4733; Gaz. vol. 169; p. 854.
Herrick, James A., New York, N. Y. Gas-valve. No. 1,001,399; Aug. 22; Sp. p. 4736; Gaz. vol. 169; p. 854.
Herrick, James A., New York, N. Y. Gas-producer apparatus. No. 1,001,953; Aug. 29; Sp. p. 5912; Gaz. vol. 169; p. 1071.
Herrick, James A., New York, N. Y. Gas-producer apparatus. No. 1,004,024; Sept. 26; Sp. p. 4039; Gaz. vol. 170; p. 729.
Herrick, James A., New York, N. Y. Gas-producer apparatus. No. 1,005,210; Oct. 10; Sp. p. 1367; Gaz. vol. 171; p. 252.
Herrick, Reuben J., Carlinville, Ill. Staple-retainer. No. 993,991; May 30; Sp. p. 6770; Gaz. vol. 166; p. 1216.
Herrick, William J. (See La Batt, Homer C., assignor.)
Herriff, Jonas H., Erie, Kans. Oil-burner. No. 1,009,746; Nov. 28; Sp. p. 4686; Gaz. vol. 172; p. 850.
Herriman, Horatio N., Cleveland, Ohio. Hatch-cover fastener. No. 1,008,146; Nov. 7; Sp. p. 1064; Gaz. vol. 172; p. 173.
Herring, Franklin F., Bono, Ark. Basket-bib frame. No. 996,084; June 27; Sp. p. 4329; Gaz. vol. 167; p. 784.
Herring, George, Dumont, N. J. Hook. No. 982,604; Jan. 24; Sp. p. 5341; Gaz. vol. 162; p. 920.
Herring-Hall-Marvin Safe Company. (See Giesting, Joseph G., assignor.)
Herrmann, Ernst W. F., San Antonio, Tex. Flying-machine. No. 1,011,620; Dec. 12; Sp. p. 2791; Gaz. vol. 173; p. 465.
Herrmann, Otto H., Seattle, Wash. Artificial bait. No. 1,009,968; Nov. 28; Sp. p. 5129; Gaz. vol. 172; p. 924.
Herrmann, Paul E., New York, N. Y. Hair-curler. No. 1,001,029; Aug. 22; Sp. p. 3968; Gaz. vol. 169; p. 729.
Herrold, Herschel M., and C. P. Rhoads, Kansas City, Kans. Automatic headlight-adjusting apparatus. No. 998,846; July 25; Sp. p. 4915; Gaz. vol. 168; p. 884.
Herron, Lawrence E., Pittsburg, Pa. Locking device for milk-bottles and other objects. No. 997,816; July 11; Sp. p. 2610; Gaz. vol. 168; p. 448.
Herschede, Walter J., Cincinnati, Ohio. Bell-rack for hall-clocks. No. 988,338; Apr. 4; Sp. p. 99; Gaz. vol. 165; p. 18.
Herschell Spillman Company. (See Spillman, Edward O., assignor.)
Herscovitz, Morris, New York, N. Y. Clothes-drier. No. 986,711; Mar. 14; Sp. p. 2024; Gaz. vol. 164; p. 355.
Herscovitz, Morris, New York, N. Y. Clothes-drier. No. 1,008,905; Nov. 14; Sp. p. 2843; Gaz. vol. 172; p. 478.
Hersey, Charles H., assignor to Armour & Company, Chicago, Ill. Grader. No. 1,011,196; Dec. 12; Sp. p. 1788; Gaz. vol. 173; p. 312.
Hersey, Guy A. (See Philbrook and Hersey.)
Hersh, Harvey E., Allentown, Pa. Climbing apparatus. No. 1,007,354; Oct. 31; Sp. p. 6156; Gaz. vol. 171; p. 1122.
Hershberger, Charles D., assignor of one-half to I. F. Overholt, Mount Pleasant, Pa. Carbureter. No. 993,065; May 23; Sp. p. 4795; Gaz. vol. 166; p. 872.
Hershberger, John H., Wilkes-Barre, Pa. Horseshoe-calk. No. 1,010,048; Nov. 28; Sp. p. 5313; Gaz. vol. 172; p. 953.

Alphabetical list of patentees—Continued.

Hershberger, Peter W., assignor of one-half to A. A. Strom, Grants Pass, Oreg. Rivet-holder. No. 991,617; May 9; Sp. p. 1703; Gaz. vol. 166; p. 313.
Hershfield, Robert F., Taylorville, Ill. Sewer and culvert pipe. No. 988,339; Apr. 4; Sp. p. 101; Gaz. vol. 165; p. 18.
Herskovitz, Max, Chicago, Ill. Auxiliary holder for lamp globes, shades, &c. No. 985,031; Feb. 21; Sp. p. 3796; Gaz. vol. 163; p. 670.
Herstein, Bernard, Bayonne, N. J. Starch. No. 982,673; Jan. 24; Sp. p. 5475; Gaz. vol. 162; p. 944.
Hert, Henry J., Indianapolis, Ind. Steering apparatus for automobiles. No. 980,636; Jan. 3; Sp. p. 975; Gaz. vol. 162; p. 159.
Hert, Henry J., Indianapolis, Ind. Steering apparatus. No. 981,420; Jan. 10; Sp. p. 2861; Gaz. vol. 162; p. 461.
Hertford, Frederick R., Washington, D. C. Shield. No. 982,492; Jan. 24; Sp. p. 5120; Gaz. vol. 162; p. 883.
Hertlein, George A., Pueblo, Colo. Vise. No. 985,807; Mar. 7; Sp. p. 81; Gaz. vol. 164; p. 17.
Hertner, John H. (See Cookingham and Hertner.)
Hertner, John H., and D. C. Cookingham, assignors to The Rauch and Lang Carriage Company, Cleveland, Ohio. Jig for holding articles during machining. No. 995,537; June 20; Sp. p. 3137; Gaz. vol. 167; p. 558.
Hertwig, Karl, and F. Collischonn, assignors to Electricitäts Actien Gesellschaft vorm. W. Lahmeyer & Co., Frankfort-on-the-Main, Germany. Electric machinery. No. 996,762; July 4; Sp. p. 327; Gaz. vol. 168; p. 56.
Hertz, Hjalmar, Chicago, Ill., assignor, by mesne assignments, to General Electric Company. Unipolar exciter for turbo-generators. No. 988,340; Apr. 4; Sp. p. 102; Gaz. vol. 165; p. 19.
Hertzberg, Harry. (See Garcia, Hertzberg, and Low.)
Hertzberg, Harry. (See Low and Hertzberg.)
Hertzberg, Harry, *et al.*, trustees. (See Betts, Lewis F., assignor.)
Hertzberg, Harry, *et al.*, trustees. (See Hertzberg and Wohl, assignors.)
Hertzberg, Harry, New York, assignor to A. A. Low, Horseshoe, N. Y. Automatic electromagnetic speed-controller. No. 990,264; Apr. 25; Sp. p. 4236; Gaz. vol. 165; p. 756.
Hertzberg, Harry, Brooklyn, assignor to A. A. Low, Horseshoe, M. J. Wohl, New York, and H. Hertzberg, Brooklyn, N. Y., trustees. Marine compass. No. 1,001,593; Aug. 22; Sp. p. 5098; Gaz. vol. 169; p. 917.
Hertzberg, Harry, and M. J. Wohl, New York, assignors to Economy Electric Company, Brooklyn, N. Y. Multiple-wire plug. No. 995,674; June 20; Sp. p. 3448; Gaz. vol. 167; p. 608.
Hertzberg, Harry, and M. J. Wohl, New York, assignors to Abbot A. Low, Horseshoe, N. Y. Engine control. No. 1,006,751; Oct. 24; Sp. p. 4817; Gaz. vol. 171; p. 856.
Hertzberg, Harry, and M. J. Wohl, Brooklyn, N. Y., assignors to A. A. Low, Horseshoe, M. J. Wohl and H. Hertzberg, trustees. Torpedo-tube cap. No. 1,006,212; Oct. 17; Sp. p. 3630; Gaz. vol. 171; p. 639.
Hertzberg, Harry, New York, A. A. Low, Horseshoe, and M. J. Wohl, New York, assignors to Economy Electric Company, Brooklyn, N. Y. Electrically-heated tool. No. 990,265; Apr. 25; Sp. p. 4239; Gaz. vol. 165; p. 756.
Hertzberg, Harry, New York, A. A. Low, Horseshoe, and M. J. Wohl, New York, N. Y., assignors to said A. A. Low, M. J. Wohl, and H. Hertzberg, trustees. Electrocuting-trap. No. 1,001,400; Aug. 22; Sp. p. 4741; Gaz. vol. 169; p. 855.
Hertzberg, Harry, New York, A. A. Low, Horseshoe, and M. J. Wohl, New York, N. Y.; said Hertzberg, Low, and Wohl, assignors to themselves, trustees. Ventilating apparatus for submarine vessels. No. 1,006,380; Oct. 17; Sp. p. 3999; Gaz. vol. 171; p. 696.
Hertzberg, William, New York, N. Y. Indicating sealed shaving-cup. No. 1,006,087; Oct. 17; Sp. p. 3321; Gaz. vol. 171; p. 593.
Hervey, David F., Logansport, Ind. Oiling device. No. 995,675; June 20; Sp. p. 3451; Gaz. vol. 167; p. 608.
Hervey, David F., Logansport, Ind. Hard-oil or hard-grease oiling device. No. 998,899; July 25; Sp. p. 5036; Gaz. vol. 168; p. 904.
Herz, Ferdinand W., New York, assignor to National Varnish Company, Long Island City, N. Y. Spraying-machine. No. 998,579; July 18; Sp. p. 4293; Gaz. vol. 168; p. 758.
Herz, Gustave L., New York, N. Y. Terminal for electric wires. No. 996,853; July 4; Sp. p. 522; Gaz. vol. 168; p. 86.
Herzberg, Carl. (See Spannuth and Dünnebier, assignors.)
Herzberg, Wilhelm, Schöneberg, near Berlin, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Monoazo dyes for wool. No. 987,362; Mar. 21; Sp. p. 3381; Gaz. vol. 164; p. 607.
Herzberg, Wilhelm, and O. Scharfenberg, Schöneberg, near Berlin, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Monoazo dye for wool. No. 986,287; Mar. 7; Sp. p. 1101; Gaz. vol. 164; p. 177.
Herzberg, Wilhelm, and W. Bruck, Schöneberg, near Berlin, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Vat dye of the anthraquinone series. No. 993,992; May 30; Sp. p. 6771; Gaz. vol. 166; p. 1217.
Herzberg, Wilhelm, and W. Bruck, Schöneberg, near Berlin, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Sulfurized vat dye of the anthraquinone series. No. 996,485; June 27; Sp. p. 5257; Gaz. vol. 167; p. 922.
Herzberg, Wilhelm, and W. Bruck, Schöneberg, near Berlin, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Vat dyes of the anthaquinone series. No. 1,008,906; Nov. 14; Sp. p. 2844; Gaz. vol. 172; p. 479.
Herzberg, Wilhelm, and W. Bruck, Schöneberg, near Berlin, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Vat dyes of the anthraquinone series. No. 1,008,908; Nov. 14; Sp. p. 2847; Gaz. vol. 172; p. 479.
Herzberg, Wilhelm, Schöneberg, near Berlin, and W. Lange, Treptow, near Berlin, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Tetrakisazo dye. No. 997,061; July 4; Sp. p. 996; Gaz. vol. 168; p. 159.
Herzberg, Wilhelm, M. Ronus, Berlin, and F. Schwabe, Charlottenburg, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Monoazo dye. No. 1,008,907; Nov. 14; Sp. p. 2846; Gaz. vol. 172; p. 479.
Herzka, Adolf, Dresden, Germany. Photographic plate. No. 1,010,141; Nov. 28; Sp. p. 5493; Gaz. vol. 172; p. 984.
Herzog, Eduard, Erlach, Austria-Hungary. Machine for inserting spindles into cops. No. 989,782; Apr. 18; Sp. p. 3193; Gaz. vol. 165; p. 561.
Herzog, Eduard, Erlach, Austria-Hungary. Apparatus for washing or dyeing cops or similar articles. No. 999,499; Aug. 1; Sp. p. 600; Gaz. vol. 169; p. 104.
Heselden, Charles. (See Knowles, Baird, and Heselden.)
Heser, John J., Jackson, Minn. Thresher-feeder. No. 981,085; Jan. 10; Sp. p. 2080; Gaz. vol. 162; p. 343.
Hesket, John A. (See Leavengood, Charles H., assignor.)
Heskett, Thomas J., Westminster, London, England. Manufacture of steel. No. 990,266; Apr. 25; Sp. p. 4242; Gaz. vol. 165; p. 756.
Heslet, Lewis B., Decker, Ind. Machine for sharpening plowshares. No. 983,714; Feb. 7; Sp. p. 986; Gaz. vol. 163; p. 156.
Heslewood, William R., Berkeley, assignor to South Fork Smelting Company, Oakland, Cal. Fume-condensing apparatus. No. 980,257; Jan. 3; Sp. p. 148; Gaz. vol. 162; p. 29.
Hess, Andrew M. (See Clymans and Hess.)
Hess-Bright Manufacturing Company, The. (See Bright, Fred E., assignor.)
Hess-Bright Manufacturing Company, The. (See Hess, Henry, assignor.)
Hess, Edward, Chicago, Ill. Spring vehicle-tire. No. 989,973; Apr. 18; Sp. p. 3613; Gaz. vol. 165; p. 626.
Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 984,275; Feb. 14; Sp. p. 2236; Gaz. vol. 163; p. 378.
Hess, Edward B., assignor to The Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 984,671; Feb. 21; Sp. p. 3079; Gaz. vol. 163; p. 545.
Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 990,736; Apr. 25; Sp. p. 5324; Gaz. vol. 165; p. 919.
Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 993,681; May 30; Sp. p. 6144; Gaz. vol. 166; p. 1111.
Hess, Edward B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Writing-machine. No. 1,004,425; Sept. 26; Sp. p. 4922; Gaz. vol. 170; p. 866.
Hess, Edward B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Writing-machine. No. 1,004,569; Oct. 3; Sp. p. 48; Gaz. vol. 171; p. 9.
Hess, Edward B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Writing-machine. No. 1,009,415; Nov. 21; Sp. p. 4021; Gaz. vol. 172; p. 694.
Hess, Edward B., New York, N. Y., assignor to Royal Typewriter Company, Hoboken, N. J. Type-writing machine. No. 1,009,513; Nov. 21; Sp. p. 4225; Gaz. vol. 172; p. 727.
Hess, Edward B., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 1,009,514; Nov. 21; Sp. p. 4226; Gaz. vol. 172; p. 727.
Hess, Frank, Kalispell, Mont. Bath accessory. No. 1,006,381; Oct. 17; Sp. p. 4000; Gaz. vol. 171; p. 697.
Hess, Frank, assignor to Davenport Ice Chipping Machine Company, Davenport, Iowa. Gearing. No. 1,004,649; Oct. 3; Sp. p. 212; Gaz. vol. 171; p. 37.
Hess, Frank E., Bartlesville, Okla. Portable bed. No. 1,006,942; Oct. 24; Sp. p. 5260; Gaz. vol. 171; p. 925.
Hess, George F., Louisville, Ky. Combined egg-beater and cheam-whip. No. 1,004,786; Oct. 3; Sp. p. 514; Gaz. vol. 171; p. 85.
Hess, George L., La Junta, Colo. Flume. No. 1,008,466; Nov. 14; Sp. p. 1914; Gaz. vol. 172; p. 327.
Hess, Henry, Wawa, Pa. Antifriction-bearing. No. 983,897; Feb. 14; Sp. p. 1404; Gaz. vol. 163; p. 249.
Hess, Henry, Philadelphia, Pa. Ball-bearing mounting. No. 989,258; Apr. 11; Sp. p. 2045; Gaz. vol. 165; p. 349.
Hess, Henry, Philadelphia, Pa. Ball-bearing. No. 991,061; May 2; Sp. p. 476; Gaz. vol. 166; p. 83.

Alphabetical list of patentees—Continued.

Hess, Henry, Philadelphia, Pa. Ball-bearing. No. 997,913; July 11; Sp. p. 2815; Gaz. vol. 168; p. 481.
Hess, Henry, Wawa, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Antifriction-bearing. No. 1,008,643; Nov. 14; Sp. p. 2313; Gaz. vol. 172; p. 391.
Hess, Henry, assignor to The Hess-Bright Manufacturing Company, Philadelphia, Pa. Ball-bearing. No. 1,002,269; Sept. 5; Sp. p. 185; Gaz. vol. 170; p. 24.
Hess, Henry E., New York, N. Y. Detachable retainer for neckties. No. 1,007,950; Nov. 7; Sp. p. 686; Gaz. vol. 172; p. 106.
Hess, Henry E., New York, N. Y. Smoker's implement. No. 1,011,955; Dec. 19; Sp. p. 3500; Gaz. vol. 173; p. 613.
Hess, Isaac, Butler, Ohio. Furnace. No. 983,619; Feb. 7; Sp. p. 781; Gaz. vol. 163; p. 124.
Hess, Jacob H., Griesheim, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Production of anhydrous ethyl alcohol. No. 996,763; July 4; Sp. p. 332; Gaz. vol. 168; p. 56.
Hess, Louis F., assignor of one-half to D. Boone, Hawks Nest, W. Va. Attachment for mining-machines. No. 999,996; Aug. 8; Sp. p. 1607; Gaz. vol. 169; p. 303.
Hess, Louis F., assignor of one-half to D. Boone, Hawks Nest, W. Va. Mining-machine. No. 1,006,213; Oct. 17; Sp. p. 3631; Gaz. vol. 171; p. 639.
Hess, Richard E., assignor of one-half to A. W. Petersohn, Jr., Aurora, Ill. Clamp. No. 996,244; June 27; Sp. p. 4711; Gaz. vol. 167; p. 838.
Hess, Wendell, Jr., Troy, N. Y. Talking-machine horn. No. 981,648; Jan. 17; Sp. p. 3296; Gaz. vol. 162; p. 560.
Hess, Wendell, Jr., Troy, N. Y. Rewinding mechanism. No. 994,840; June 13; Sp. p. 1642; Gaz. vol. 167; p. 295.
Hess, Wendell, Jr., Troy, N. Y., assignor to W. & L. E. Gurley. Recording device. No. 981,421; Jan. 10; Sp. p. 2863; Gaz. vol. 162; p. 462.
Hess, Wendell, Jr., assignor to W. & L. E. Gurley, Troy, N. Y. Forming type-rings and other articles. No. 985,032; Feb. 21; Sp. p. 3797; Gaz. vol. 163; p. 671.
Hessberger, Johannes. (See Schönherr and Hessberger.)
Hessdörfer, Georg, Würzburg, Germany. Coffee-machine. No. 1,007,200; Oct. 31; Sp. p. 5851; Gaz. vol. 171; p. 1068
Hesse, Albert, Wilmersdorf, Germany. Solution of resins and manufacturing same. No. 1,003,741; Sept. 19; Sp. p. 3398; Gaz. vol. 170; p. 606.
Hesse, Leopold. (See Günther, Hesse, and Zart.)
Hesse, Leopold. (See Günther, Hesse, Zart, and Schweitzer.)
Hesselbacher, Albert. (See Weiberg, Conrad L., assignor.)
Hesselman, Knut J. E., Sickla, Sweden. Means for controlling reversible internal-combustion engines. No. 997,253; July 4; Sp. p. 1373; Gaz. vol. 168; p. 225.
Hesseltine, Charles R. (See Engert and Hesseltine.)
Hessenius, Henry, and J. M. Kolkema, Chicago, Ill. Laundry-washer valve. No. 981,854; Jan. 17; Sp. p. 3744; Gaz. vol. 162; p. 632.
Hessenland, Max, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Blue dyestuff and making same. No. 998,772; July 25; Sp. p. 4759; Gaz. vol. 168; p. 859.
Hessenland, Max, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Vat dyestuff. No. 999,785; Aug. 8; Sp. p. 1174; Gaz. vol. 169; p. 231.
Hessenland, Max, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Vat dyestuff of the anthraquinone series and making same. No. 1,002,270; Sept. 5; Sp. p. 187; Gaz. vol. 170; p. 24.
Hessenland, Max, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Vat dyestuffs of the anthraquinone series and making same. No. 1,007,104; Oct. 31; Sp. p. 5620; Gaz. vol. 171; p. 1033.
Hesser, Elinor, *et al.*, executors. (See Rowbotham, John.)
Hesser, Mary, *et al.*, executors. (See Rowbotham, John.)
Hessinger, William, Coral, Pa. Rail for railway-tracks. No. 982,061; Jan. 17; Sp. p. 4220; Gaz. vol. 162; p. 703.
Hester, James R., Roscoe, Tex. Cotton-chopper. No. 1,000,599; Aug. 15; Sp. p. 2984; Gaz. vol. 169; p. 546.
Hester, Joseph T. (See Black, Edwin L., assignor.)
Hester, William F., McColl, S. C. Plow-stock. No. 1,008,035; Nov. 7; Sp. p. 840; Gaz. vol. 172; p. 133.
Hestera, Joseph, Hankinson, N. D. Current-motor. No. 1,004,787; Oct. 3; Sp. p. 515; Gaz. vol. 171; p. 85.
Heston, Nathan E., Alexandria, Nebr. Clutch. No. 982,605; Jan. 24; Sp. p. 5342; Gaz. vol. 162; p. 920.
Hetherington, Arthur F., New York, N. Y. Tooth-powder container. No. 987,986; Mar. 28; Sp. p. 4773; Gaz. vol. 164; p. 851.
Hetherington, Charles A., Des Moines, Iowa. Electrical testing device. No. 988,192; Mar. 28; Sp. p. 5176; Gaz. vol. 164; p. 918.
Hetherington, George, Philadelphia, Pa. Loom harness mechanism. No. 1,003,742; Sept. 19; Sp. p. 3399; Gaz. vol. 170; p. 606.
Hetrick, Luther B., Elwood, Ind. Ginseng-shade. No. 1,001,267; Aug. 22; Sp. p. 4438; Gaz. vol. 169; p. 807.
Hetrick, William F., South Connellsville, Pa. Rail-clamp. No. 1,008,542; Nov. 14; Sp. p. 2069; Gaz. vol. 172; p. 353.
Hettler, Theodore, Roselawn, Cal. Propeller. No. 995,786; June 20; Sp. p. 3709; Gaz. vol. 167; p. 646.
Heuchert, Jakob, assignor of nine-tenths to M. Mullaly, Winnipeg, Canada. Grain-car door. No. 984,560; Feb. 21; Sp. p. 2854; Gaz. vol. 163; p. 508.
Heuckendorff, Arnold, Berkeley, Cal. Wave-motor. No. 1,006,214; Oct. 17; Sp. p. 3634; Gaz. vol. 171; p. 639.
Heulings, William H., Jr. (See Malocsay, Francis X., assignor.)
Heulings, William H., Jr., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-truck. No. 1,000,407; Aug. 15; Sp. p. 2549; Gaz. vol. 169; p. 475.
Heumiller, John T. (See McKee, George F., assignor.)
Heun, William M., Hastings, Nebr. Axle. No. 985,808; Mar. 7; Sp. p. 81; Gaz. vol. 164; p. 18.
Heuser, Ralph V., Waterbury, Conn. Refrigerating device. No. 992,560; May 16; Sp. p. 3727; Gaz. vol. 166; p. 667.
Heuss, Hermann, and G. C. F. Vater, assignors to The C. W. Raymond Company, Dayton, Ohio. Drier for clay-ware. No. 1,007,565; Oct. 31; Sp. p. 6631; Gaz. vol. 171; p. 1195.
Heusser, Ernest R., Murray, Utah. Shoe-plate. No. 993,682; May 30; Sp. p. 6147; Gaz. vol. 166; p. 1112.
Heuyard, Joshua, Terre Hill, Pa. Repairing and stretching last. No. 999,306; Aug. 1; Sp. p. 217; Gaz. vol. 169; p. 41.
Heveker, August, Jr. (See Raymer and Heveker.)
Heverling, John B., St. Louis, Mo. Traction-motor. No. 995,538; June 20; Sp. p. 3139; Gaz. vol. 167; p. 558.
Heverling, John B., St. Louis, Mo. Motor-driven vehicle. No. 1,011,431; Dec. 12; Sp. p. 2308; Gaz. vol. 173; p. 395.
Hewel, Frank B., Altoona, Pa. Metallic railway-tie. No. 991,987; May 9; Sp. p. 2457; Gaz. vol. 166; p. 436.
Hewes, Albert H., Newark, N. J. Receptacle. No. 991,303; May 2; Sp. p. 1022; Gaz. vol. 166; p. 171.
Hewes, James A., *et al.* (See Johnson, William H., assignor.)
Hewitt, Albertis, Camden, N. J., assignor to Victor Talking Machine Company. Sound-amplifier. No. 1,004,256; Sept. 26; Sp. p. 4584; Gaz. vol. 170; p. 810.
Hewitt, Allin W., Bogota, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 998,092; July 18; Sp. p. 3240; Gaz. vol. 168; p. 587.
Hewitt, Herbert H., Buffalo, N. Y. Car-truck. No. 1,009,747; Nov. 28; Sp. p. 4687; Gaz. vol. 172; p. 851.
Hewitt, John F., Portland, Oreg. Scraper-bucket. No. 1,006,848; Oct. 24; Sp. p. 5059; Gaz. vol. 171; p. 892.
Hewitt, Leon A., assignor of one-half to F. E. Collins, Livermore, Iowa. Monoplane. No. 1,000,808; Aug. 15; Sp. p. 3437; Gaz. vol. 169; p. 618.
Hewitt, Peter C., Ringwood Manor, N. J. Vapor-converter. No. 1,007,694; Nov. 7; Sp. p. 89; Gaz. vol. 172; p. 14.
Hewitt, Peter C., New York, N. Y., assignor, by mesne assignments, to Cooper Hewitt Electric Company. Vapor electric apparatus. No. 989,259; Apr. 11; Sp. p. 2047; Gaz. vol. 165; p. 350.
Hewitt, Peter C., assignor to Cooper Hewitt Electric Company, New York, N. Y. Means for reproducing electrical variations. No. 991,304; May 2; Sp. p. 1023; Gaz. vol. 166; p. 172.
Hewitt, Peter C., Ringwood Manor, N. J., assignor to Cooper Hewitt Electric Company. Method of and apparatus for starting and operating mercury-vapor apparatus. No. 998,175; July 18; Sp. p. 3408; Gaz. vol. 168; p. 615.
Hewitt, Richard B., Chicago, Ill., assignor to General Fire-Extinguisher Company, New York, N. Y. Valve for controlling the water-inlet of automatic sprinkler systems. No. 982,719; Jan. 24; Sp. p. 5570; Gaz. vol. 162; p. 958.
Hewitt, Richard B., and J. G. Nolen; said Nolen assignor of one-half to F. B. Cook, Chicago, Ill. Fire-protection device. No. 996,335; June 27; Sp. p. 4938; Gaz. vol. 167; p. 869.
Hewitt, William, assignor to The Trenton Iron Company, Trenton, N. J. Cableway. No. 981,649; Jan. 17; Sp. p. 3297; Gaz. vol. 162; p. 560.
Hewlett, Edward M., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,010,425; Dec. 5; Sp. p. 46; Gaz. vol. 173; p. 10.
Hewlett, Edward M., and C. H. Hill, Schenectady, N. Y., assignors to General Electric Company. Circuit-breaker. No. 1,011,784; Dec. 12; Sp. p. 3105; Gaz. vol. 173; p. 520.
Hewlett, Maddra J., Kewanee, Ill. Molding apparatus. No. 993,599; May 30; Sp. p. 5941; Gaz. vol. 166; p. 1082.
Hewling, Ernest J., Davenport, Iowa. Auto-headlight. No. 984,480; Feb. 14; Sp. p. 2632; Gaz. vol. 163; p. 444.
Hexagon Tool Co. (See Webendorfer, John F., assignor.)
Hey, Johann F., Strassburg, Germany. Apparatus for regulating the supply of steam. No. 1,001,199; Aug. 22; Sp. p. 4311; Gaz. vol. 169; p. 786.
Heybach, Frederick J., Baltimore, Md., assignor to The American Automatic Machinery Company, Atlanta, Ga. Apparatus for handling and packing powdery materials. No. 980,949; Jan. 10; Sp. p. 1708; Gaz. vol. 162; p. 295.

Alphabetical list of patentees—Continued.

Heybach, Frederick J., Baltimore, Md., assignor to The American Automatic Machinery Company, Savannah, Ga. Automatic weighing and filling machine. No. 991,305; May 2; Sp. p. 1026; Gaz. vol. 166; p. 172.
Heybach, Frederick J., Baltimore, Md., assignor to American Automatic Machinery Company, Savannah, Ga. Carton-setting-up machine. No. 1,001,268; Aug. 22; Sp. p. 4440; Gaz. vol. 169; p. 808.
Heybach, Frederick J., assignor to The American Automatic Machinery Company, Savannah, Ga. Carton-closing machine. No. 995,965; June 20; Sp. p. 4069; Gaz. vol. 167; p. 709.
Heyd, Esler B., Garrettsville, Ohio. Bag-holder. No. 988,097; Mar. 28; Sp. p. 5011; Gaz. vol. 164; p. 889.
Heyd, Esler B., Garrettsville, Ohio. Bag-holder. No. 998,291; July 18; Sp. p. 3698; Gaz. vol. 168; p. 659.
Heydecker, Mary A., New York, N. Y. Ambulance-coach. No. 980,780; Jan. 3; Sp. p. 1284; Gaz. vol. 162; p. 207.
Heyen, Henry, New York, N. Y. Rotary engine. No. 1,002,059; Aug. 29; Sp. p. 6115; Gaz. vol. 169; p. 1105.
Heyerly, John, near Bluffton, Ind. Fence-post brace. No. 999,786; Aug. 8; Sp. p. 1174; Gaz. vol. 169; p. 231.
Heyl & Co. Aktien-Gesellschaft, Gebr. (See Leonhardt, Ernst, assignor.)
Heyl, Henry R., assignor to The American Paper Bottle Company, Philadelphia, Pa. Seam-clamp for paper tubes. No. 1,002,689; Sept. 5; Sp. p. 1124; Gaz. vol. 170; p. 169.
Heyl, Henry R., assignor to The American Paper Bottle Company, Philadelphia, Pa. Tube-cutting machine. No. 1,002,690; Sept. 5; Sp. p. 1126; Gaz. vol. 170; p. 169.
Heylman, Edward M., assignor to Rock Island Plow Company, Rock Island, Ill. Harrow. No. 1,008,147; Nov. 7; Sp. p. 1065; Gaz. vol. 172; p. 174.
Heyman, David, Jersey City, N. J. Collapsible receptacle. No. 1,003,107; Sept. 12; Sp. p. 2043; Gaz. vol. 170; p. 352.
Heyman, Knut W., Skogstorp, Tumba, Sweden. Cooling apparatus for milk or other liquids. No. 996,245; June 27; Sp. p. 4712; Gaz. vol. 167; p. 838.
No. 995,600; June 20; Sp. p. 3300; Gaz. vol. 167; p. 581.
Heymann, Herman S., *et al.* (See Hovey, Allyne C., assignor.)
Heys, John J., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Heel-seat rough-rounder. No. 1,005,545; Oct. 10; Sp. p. 2113; Gaz. vol. 171; p. 372.
Heyser, Jonas E., Philadelphia, Pa. Surgical appliance.
Heyser, William. Baltimore, Md. Adjustable coupling for shafts. No. 997,062; July 4; Sp. p. 997; Gaz. vol. 168; p. 160.
Heywood, Charles H., and D. E. Travis, Waukegan, Ill., assignors to United States Envelope Co., Springfield, Mass. Gumming-machine. No. 998,246; July 18; Sp. p. 3574; Gaz. vol. 168; p. 641.
Heywood, Charles H., and D. E. Travis, Waukegan, Ill., assignors to United States Envelope Co., Springfield, Mass. Feeding mechanism for paper and cardboard. No. 1,000,090; Aug. 8; Sp. p. 1854; Gaz. vol. 169; p. 335.
Hiatt, Benjamin F., Alameda, Cal. Clothes-line support. No. 986,983; Mar. 14; Sp. p. 2576; Gaz. vol. 164; p. 446.
Hiatt, William F., Pittsboro, Ind. Window. No. 988,778; Apr. 4; Sp. p. 1051; Gaz. vol. 165; p. 167.
Hibbard, David S., Gorham, Me. Water-wheel. No. 989,149; Apr. 11; Sp. p. 1798; Gaz. vol. 165; p. 313.
Hibbard, Herbert O., Worcester, Mass. Index and file. No. 985,172; Feb. 28; Sp. p. 4141; Gaz. vol. 163; p. 753.
Hibbard, Louis R., Los Angeles, Cal. Lock. No. 986,632; Mar. 14; Sp. p. 1854; Gaz. vol. 164; p. 329.
Hibbard, Spencer, Bartlett & Company. (See Stewart, Pritchard, assignor.)
Hibbard, William H., assignor to W. H. Hibbard M'f'g Co., Brooklyn, N. Y. Stamping and other press. No. 992,771; May 23; Sp. p. 4146; Gaz. vol. 166; p. 767.
Hibberd, Charles E., London, England, assignor to The Hibberd Prepayment Machine Syndicate Limited, Auckland, New Zealand. Coin-freed mechanism. No. 1,006,215; Oct. 17; Sp. p. 3636; Gaz. vol. 171; p. 640.
Hibberd Prepayment Machine Syndicate Limited, The. (See Hibberd, Charles E., assignor.)
Hibbert, Harold, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 994,841; June 13; Sp. p. 1647; Gaz. vol. 167; p. 296.
Hibbert, Harold, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 994,842; June 13; Sp. p. 1649; Gaz. vol. 167; p. 296.
Hibbert, Harold, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive and producing the same and its ingredients. No. 1,008,333; Nov. 14; Sp. p. 1529; Gaz. vol. 172; p. 280.
Hibbitt, Walter M., Lebanon, Tenn. Safety feed device for hydrocarbon-burners. No. 989,359; Apr. 11; Sp. p. 2263; Gaz. vol. 165; p. 384.
Hibbler, Eldred M., Iris, Miss. Cane-knife. No. 982,674; Jan. 24; Sp. p. 5476; Gaz. vol. 162; p. 944.
Hibbler, Eldred M., Jonestown, Miss. Tool. No. 1,005,834; Oct. 17; Sp. p. 2771; Gaz. vol. 171; p. 505.
Hibbs, Frank W., Seattle, Wash. Wind-propelled turbine-motor. No. 1,008,148; Nov. 7; Sp. p. 1067; Gaz. vol. 172; p. 174.
Hibner, De Los E. (See Eichelberger and Hibner.)
Hibner, De Los E., assignor to The Vulcan Soot Cleaner Company of Pittsburg, Pa., Dubois, Pa. Boiler-flue-cleaner system. No. 984,919; Feb. 21; Sp. p. 3585; Gaz. vol. 163; p. 633.
Hibner, Philip D., Seattle, Wash. Railway-switch. No. 993,683; May 30; Sp. p. 6148; Gaz. vol. 166; p. 1112.
Hick, Harry J., assignor to The McCaskey Register Company, Alliance, Ohio. Filing appliance. No. 1,006,552; Oct. 24; Sp. p. 4424; Gaz. vol. 171; p. 789.
Hicke, John, Philadelphia, Pa. Mail catcher and crane. No. 1,001,954; Aug. 29; Sp. p. 5916; Gaz. vol. 169; p. 1072.
Hickey, Andrew S., U. S. Navy. Means for preventing rust in boilers. No. 999,108; July 25; Sp. p. 5485; Gaz. vol. 168; p. 976.
Hickey, Benjamin H. (See Quinn and Arndt, assignors.)
Hickish, Robert, Tuckahoe, N. Y. Grease-cup. No. 984,481; Feb. 14; Sp. p. 2633; Gaz. vol. 163; p. 445.
Hickley, Arthur S., Manasquan, N. J., assignor to Como Electrical Company. Electrolytic cell. No. 982,493; Jan. 24; Sp. p. 5122; Gaz. vol. 162; p. 884.
Hickley, Arthur S., Manasquan, N. J., assignor to Como Electrical Company. Electrolytic alternating-current rectifier. No. 982,494; Jan. 24; Sp. p. 5123; Gaz. vol. 162; p. 884.
Hickling, Charles I. U., Collingwood, Ontario, Canada. Explosive-engine. No. 997,675; July 11; Sp. p. 2250; Gaz. vol. 168; p. 398.
Hickman, Burtis J., Ansley, Nebr. Horse-collar adjuster. No. 991,618; May 9; Sp. p. 1704; Gaz. vol. 166; p. 313.
Hickman, George, Lizton, Ind. Safety-razor. No. 990,872; May 2; Sp. p. 102; Gaz. vol. 166; p. 19.
Hickman, William A. (See Brown, Andrew B., assignor.)
Hickman, William A. (See Brown and Hickman.)
Hickok, Edward J., Chicago, Ill. Road-drag. No. 987,803; Mar. 28; Sp. p. 4320; Gaz. vol. 164; p. 786.
Hickok, Lester E., *et al* (See Eckels, George M., assignor.)
Hicks, Charles W., Sutherland, Fla. Plow. No. 985,591; Feb. 28; Sp. p. 5080; Gaz. vol. 163; p. 898.
Hicks, Charles W., Sutherland, Fla. Subsoil-plow. No. 990,737; Apr. 25; Sp. p. 5326; Gaz. vol. 165; p. 919.
Hicks, Charles W., Sutherland, Fla. Subsoil-plow. No. 990,738; Apr. 25; Sp. p. 5328; Gaz. vol. 165; p. 919.
Hicks, Charles W., Sutherland, Fla. Subsoil-plow. No. 991,306; May 2; Sp. p. 1037; Gaz. vol. 166; p. 173.
Hicks, Frank A. (See Balcom, Henry D., assignor.)
Hicks, George C., Jr., Connersville, Ind. Regulator for gas-works. No. 1,008,334; Nov. 14; Sp. p. 1530; Gaz. vol. 172; p. 280.
Hicks, George C., Syracuse, and M. E. Hagen, Utica, N. Y. Railway-rail stay. No. 981,650; Jan. 17; Sp. p. 3299; Gaz. vol. 162; p. 560.
Hicks, Jackson, Andalusia, Ala. Fence-post. No. 990,873; May 2; Sp. p. 103; Gaz. vol. 166; p. 19.
Hicks, James A., Atlanta, Ga. Reducing-valve and means for operating same. No. 1,001,401; Aug. 22; Sp. p. 4742; Gaz. vol. 169; p. 855.
Hickson, Joseph, Mount Gilead, Ohio. Reinforced metal-flanged concrete pipe. No. 1,009,840; Nov. 28; Sp. p. 4886; Gaz. vol. 172; p. 882.
Hide-Ite Leather Company. (See Clapp, Albert L., assignor.)
Hiemenz, Wilhelm, and E. Rietz, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Aloin ester. No. 989,974; Apr. 18; Sp. p. 3615; Gaz. vol. 165; p. 626.
Hiering, Christian, and A. Fuller, assignors to The J. E. Margott Company, Newark, N. J. Bag-fastener. No. 980,415; Jan. 3; Sp. p. 484; Gaz. vol. 162; p. 84.
Hiering, Christian, and A. Fuller, assignors to The J. E. Mergott Company, Newark, N. J. Bag-frame. No. 980,950; Jan. 10; Sp. p. 1713; Gaz. vol. 162; p. 295.
Hiering, Christian, and A. Fuller, assignors to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 990,813; Apr. 25; Sp. p. 5489; Gaz. vol. 165; p. 946.
Hierl, Charles, Cleveland, Ohio. Hat-pin fastener. No. 986,824; Mar. 14; Sp. p. 2270; Gaz. vol. 164; p. 393.
Hiester, Barent U., Grand Ridge, Ill. Well-casing. No. 1,001,523; Aug. 22; Sp. p. 4947; Gaz. vol. 169; p. 894.
Hiester, Barent U., Grand Ridge, Ill. Well-casing. No. 1,009,515; Nov. 21; Sp. p. 4228; Gaz. vol. 172; p. 728.
Higbee, James F., Muncie, Ind., assignor of one-half to W. M. Higbee, Lima, Ohio. Valve-seating machine. No. 983,228; Jan. 31; Sp. p. 6664; Gaz. vol. 162; p. 1158.
Higbee, Marion F., Salamanca, N. Y. Raker-gage. No. 1,003,904; Sept. 19; Sp. p. 3708; Gaz. vol. 170; p. 660.
Higbee, Orlando J. W., Pittsburg, Pa. Manufacturing glass vacuum-wall bottles. No. 1,004,257; Sept. 26; Sp. p. 4586; Gaz. vol. 170; p. 811.
Higbee, Orlando J. W., Pittsburg, Pa. Manufacture of vacuum-wall receptacles. No. 1,004,258; Sept. 26; Sp. p. 4588; Gaz. vol. 170; p. 811.
Higbee, Orlando J. W., Pittsburg, Pa. Manufacturing hollow-wall receptacles. No. 1,004,259; Sept. 26; Sp. p. 4589; Gaz. vol. 170; p. 811.
Higbee, Orlando J. W., Pittsburg, Pa. Snap. No. 1,004,260; Sept. 26; Sp. p. 4592; Gaz. vol. 170; p. 812.

Alphabetical list of patentees—Continued.

Higbee, Orlando J. W., Pittsburgh, Pa. Manufacturing glass vacuum-wall bottles. (Reissue.) No. 13,332; Dec. 5; Sp. p. 1633; Gaz. vol. 173; p. 259.
Higbee, Orlando J. W., Pittsburgh, Pa. Manufacture of hollow-wall vessels. No. 1,012,547; Dec. 19; Sp. p. 4760; Gaz. vol. 173; p. 817.
Higbee, William M. (See Higbee, James F., assignor.)
Higby, John L., Big Sandy, Mont. Spring-seat clip. No. 1,002,691; Sept. 5; Sp. p. 1128; Gaz. vol. 170; p. 170.
Higel, Otto, assignor of one-half to G. C. Heintzman, Toronto, Ontario, Canada. Pneumatic action for musical instruments. No. 987,575; Mar. 21; Sp. p. 3814; Gaz. vol. 164; p. 679.
Higgin, Henry, assignor of one-half to The Higgin Manufacturing Company, Newport, Ky. Marking-machine for laundry articles. No. 980,416; Jan. 3; Sp. p. 486; Gaz. vol. 162; p. 84.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Weather-strip. No. 1,004,788; Oct. 3; Sp. p. 516; Gaz. vol. 171; p. 85.
Higgin Manufacturing Company, The. (See Higgin, Henry, assignor.)
Higgins, Charles H., Ottawa, Ontario, Canada. Punch. No. 990,553; Apr. 25; Sp. p. 4917; Gaz. vol. 165; p. 858.
Higgins, Dennis, and J. W. Irons, New Albin, Iowa. Steering apparatus for boats. No. 983,715; Feb. 7; Sp. p. 989; Gaz. vol. 163; p. 157.
Higgins, Edward T. (See Parslow and Higgins.)
Higgins, James E., Memphis, Tenn. Fire apparatus for elevators. No. 994,514; June 6; Sp. p. 848; Gaz. vol. 167; p. 143.
Higgins, John A., Greenport, N. Y. Multiple-wrench. No. 992,873; May 23; Sp. p. 4381; Gaz. vol. 166; p. 804.
Higgins, John G., Chattanooga, Tenn. Comb. No. 999,997; Aug. 8; Sp. p. 1609; Gaz. vol. 169; p. 303.
Higgins, John J., Thomas, W. Va. Hose-clamp. No. 1,008,909; Nov. 14; Sp. p. 2848; Gaz. vol. 172; p. 479.
Higgins, Patrick J., Honolulu, Hawaii. Loading apparatus. No. 1,012,133; Dec. 19; Sp. p. 3917; Gaz. vol. 173; p. 677.
Higgins, Thomas. (See Pincus, Henry, assignor.)
Higgins, William H., Springfield, Vt. Washing-machine. No. 999,647; Aug. 1; Sp. p. 884; Gaz. vol. 169; p. 154.
Higginson, Horace I., Grayville, Ill. Safety-stirrup. No. 996,085; June 27; Sp. p. 4330; Gaz. vol. 167; p. 785.
Highsmith, Aubrey O., Dallas, Tex. Staple-set. No. 992,962; May 23; Sp. p. 4589; Gaz. vol. 166; p. 837.
Hight, Robert L., Decatur, Ill. Self-winding electric clock. No. 984,218; Feb. 14; Sp. p. 2105; Gaz. vol. 163; p. 357.
Hightower, William M., Waskom, Tex. Baling-press. No. 1,004,025; Sept. 26; Sp. p. 4042; Gaz. vol. 170; p. 730.
Higley Machine Company. (See Juengst, Charles A., assignor.)
Hiitt, Otto E. (See Korneffel and Hiitt.)
Hilbert, John N. J. (See Phelps and Hilbert.)
Hilbert, John N. J., Chicago, assignor to Chambers, Bering, Quinlan Company, Decatur, Ill. Combined hay rake and tedder. No. 1,008,467; Nov. 14; Sp. p. 1916; Gaz. vol. 172; p. 328.
Hilborn, Henry F., Mohall, N. D. Dumping-rack. No. 1,010,910; Dec. 5; Sp. p. 1138; Gaz. vol. 173; p. 179.
Hilburger, Fred, Denver, Colo. Air-feeding attachment for grates. No. 981,263; Jan. 10; Sp. p. 2505; Gaz. vol. 162; p. 407.
Hild, Edwin H., Philadelphia, Pa. Electric lock. No. 1,011,956; Dec. 19; Sp. p. 3502; Gaz. vol. 173; p. 613.
Hild, Frederic W., Habana, Cuba. Track-rail cleaner. No. 998,773; July 25; Sp. p. 4759; Gaz. vol. 168; p. 860.
Hild, Oscar E., St. Paul, Nebr. Gearing. No. 1,004,789; Oct. 3; Sp. p. 517; Gaz. vol. 171; p. 85.
Hildebrand, Charles and J., Ellinwood, Kans. Draft attachment for traction-engines. No. 993,370; May 30; Sp. p. 5455; Gaz. vol. 166; p. 1004.
Hildebrand, Herman E., assignor to E. E. Behlke, Chicago, Ill. Combined burette-holder and pinch-cock. No. 989,503; Apr. 11; Sp. p. 2551; Gaz. vol. 165; p. 432.
Hildebrand, John. (See Hildebrand, Charles and J.)
Hildebrand, Reinhard, Milwaukee, Wis. Self-heating flat-iron. No. 1,008,335; Nov. 14; Sp. p. 1534; Gaz. vol. 172; p. 281.
Hildebrand, William E., Kansas City, Mo. Adjustable feather-support. No. 1,009,307; Nov. 21; Sp. p. 3753; Gaz. vol. 172; p. 654.
Hildreth, Herbert L. (See McGary, Charles W., assignor.)
Hildt, John E., Wagoner, Okla. Fly-paper holder. No. 1,010,760; Dec. 5; Sp. p. 815; Gaz. vol. 173; p. 127.
Hileman, Harold T., Mooresburg, Tenn. Bridle for brooms. No. 1,009,147; Nov. 21; Sp. p. 3368; Gaz. vol. 172; p. 596.
Hilfer, Louis. (See Ranz, Jacob, assignor.)
Hilgenstock, Gustav, Dahlhausen-Ruhr, Germany. Treatment of gases given off in the destructive distillation of coal, &c. No. 994,315; June 6; Sp. p. 433; Gaz. vol. 167; p. 75.
Hilger, Ernest, Dusseldorf, Germany. Apparatus for and method of operating gas-generator grates. No. 981,651; Jan. 17; Sp. p. 3300; Gaz. vol. 162; p. 561.
Hilger, George M., Chicago, Ill. Vapor-condenser. No. 980,637; Jan. 3; Sp. p. 977; Gaz. vol. 162; p. 160.
Hilgers, John E., Middleton, Wis. Pipe-forcing jack. No. 1,002,398; Sept. 5; Sp. p. 512; Gaz. vol. 170; p. 71.
Hilker, Nettie, Colorado Springs, Colo. Mop squeezer or wringer. No. 1,009,308; Nov. 21; Sp. p. 3755; Gaz. vol. 172; p. 655.
Hill, Ada T., Salem, Ill. Fireless cooker. No. 1,005,211; Oct. 10; Sp. p. 1370; Gaz. vol. 171; p. 252.
Hill, Alexander B., Hoboken, N. J. Game apparatus. No. 990,439; Apr. 25; Sp. p. 4662; Gaz. vol. 165; p. 819.
Hill, Alfred, assignor of one-half to J. B. Spuhr, Denver, Colo. Machine for transplanting trees. No. 986,390; Mar. 7; Sp. p. 1336; Gaz. vol. 164; p. 215.
Hill, Almon D., East Wakefield, N. H. Bracket. No. 1,004,426; Sept. 26; Sp. p. 4928; Gaz. vol. 170; p. 867.
Hill, Alva T., Phoenix, Ariz. Water-meter. No. 997,553; July 11; Sp. p. 1978; Gaz. vol. 168; p. 353.
Hill, Barton B., Stoke Newington, London, England. Detachable wheel. No. 1,002,151; Aug. 29; Sp. p. 6277; Gaz. vol. 169; p. 1135.
Hill, Bradbury, Waterloo, Iowa, and R. C. Johnson, Albert Lea, Minn. Collapsible banana-crate. No. 1,002,271; Sept. 5; Sp. p. 188; Gaz. vol. 170; p. 24.
Hill, Carl, Ocilla, Ga. Emergency appliance for air-brakes. No. 998,513; July 18; Sp. p. 4156; Gaz. vol. 168; p. 735.
Hill, Cary L. (See Bovie, William T., assignor.)
Hill, Charles, Phoenix, British Columbia, Canada. Hose-coupling. No. 995,966; June 20; Sp. p. 4078; Gaz. vol. 167; p. 709.
Hill, Charles, Fresno, Cal. Fireproof safe. No. 1,010,259; Nov. 28; Sp. p. 5719; Gaz. vol. 172; p. 1022.
Hill, Charles D., assignor of one-half to L. W. Goodell, Beardstown, Ill. Tobacco-pipe. No. 1,012,548; Dec. 19; Sp. p. 4762; Gaz. vol. 173; p. 817.
Hill, Charles H. (See Hewlett and Hill.)
Hill, Charles H., Schenectady, N. Y., assignor to General Electric Company. Circuit-controlling switch. No. 996,336; June 27; Sp. p. 4939; Gaz. vol. 167; p. 869.
Hill, Charles H., Schenectady, N. Y., assignor to General Electric Company. Circuit-breaker. No. 1,011,785; Dec. 12; Sp. p. 3110; Gaz. vol. 173; p. 521.
Hill, Charles V., St. Louis, Mo. Street-car advertising device. No. 997,254; July 4; Sp. p. 1376; Gaz. vol. 168; p. 225.
Hill, Charles W., Lakewood, assignor to National Carbon Company, Cleveland, Ohio. Electrode for flaming-arc lamps. No. 1,007,869; Nov. 7; Sp. p. 515; Gaz. vol. 172; p. 78.
Hill, Chester C., assignor of one-half to W. H. Starr, East Liverpool, Ohio. Musical instrument. No. 995,967; June 20; Sp. p. 4079; Gaz. vol. 167; p. 709.
Hill, Clarence B., Mannington, W. Va. Device for preventing mice entering pianos. No. 1,011,344; Dec. 12; Sp. p. 2143; Gaz. vol. 173; p. 366.
Hill, Claudius M. (See Francisco, George T., assignor.)
Hill, Climie E. (See Hill, Sterling B., C. E., and W. R.)
Hill, Conrad, San Antonio, Tex. Apparatus for separating wax from plants. No. 1,003,259; Sept. 12; Sp. p. 2370; Gaz. vol. 170; p. 407.
Hill, Ebenezer, Norwalk, Conn. Automatic safety-stop for air-compressor engines. No. 994,396; June 6; Sp. p. 620; Gaz. vol. 167; p. 106.
Hill, Ebenezer, Norwalk, Conn. Air-compressor. No. 1,000,809; Aug. 15; Sp. p. 3439; Gaz. vol. 169; p. 619.
Hill, Edward A., assignor to Chicago Car Door Company, Chicago, Ill. Track and hanger for freight-car doors. No. 995,787; June 20; Sp. p. 3710; Gaz. vol. 167; p. 647.
Hill, Edward A., assignor to Chicago Car Door Company, Chicago, Ill. Safety-bracket for car-doors. No. 1,000,408; Aug. 15; Sp. p. 2552; Gaz. vol. 169; p. 476.
Hill, Edward A., assignor to Chicago Car Door Company, Chicago, Ill. Combined track and hanger for car-doors. No. 1,001,030; Aug. 22; Sp. p. 3968; Gaz. vol. 169; p. 729.
Hill, Edward A., assignor to Chicago Car Door Company, Chicago, Ill. Means for guiding and retaining the lower edges of freight-car doors. No. 1,007,695; Nov. 7; Sp. p. 92; Gaz. vol. 172; p. 15.
Hill, Edward A., assignor to Chicago Car Door Company, Chicago, Ill. Hanger and trolley-wheel for freight-car doors. No. 1,008,910; Nov. 14; Sp. p. 2849; Gaz. vol. 172; p. 480.
Hill, Edward C., and M. J. Ziegelmeyer, Cincinnati, Ohio. Street-car fender. No. 1,010,367; Nov. 28; Sp. p. 5949; Gaz. vol. 172; p. 1058.
Hill, Edward W., New York, N. Y. Loose-leaf-book construction. No. 1,008,597; Nov. 14; Sp. p. 2203; Gaz. vol. 172; p. 375.
Hill, Enoch W., and C. H. Young, Center Barnstead, N. H. Pruning-hook. No. 992,561; May 16; Sp. p. 3729; Gaz. vol. 166; p. 667.
Hill, Ernest M. (See Roth, Hartfield, and Hill.)
Hill, Ernest M., J. C. Roth, and O. C. Hartfield, Buffalo, N. Y. Tapping device. No. 984,763; Feb. 21; Sp. p. 3292; Gaz. vol. 163; p. 580.
Hill, Ernest N., Anderson, Ind. Rotary pump. No. 999,787; Aug. 8; Sp. p. 1176; Gaz. vol. 169; p. 232.
Hill, Frank L., Dayton, Ky. Imitating onyx or marble on glass. No. 993,993; May 30; Sp. p. 6773; Gaz. vol. 166; p. 1217.
Hill, Frank R., New York, N. Y. Portable tent. No. 998,093; July 18; Sp. p. 3254; Gaz. vol. 168; p. 587.

Alphabetical list of patentees—Continued.

Hill, Fred W., Chatham, Pa. Igniter for gas-lamps. No. 1,009,969; Nov. 28; Sp. p. 5131; Gaz. vol. 172; p. 925.
Hill, George R., Portland, Oreg. Miter-box. No. 998,094; July 18; Sp. p. 3254; Gaz. vol. 168; p. 587.
Hill, George S., assignor to Warner Brothers Co., Bridgeport, Conn. Buckle. No. 992,562; May 16; Sp. p. 3730; Gaz. vol. 166; p. 667.
Hill, Harry. (See Hacking and Hill.)
Hill, Henry C., *et al.* (See Nelson, Edward E., assignor.)
Hill, Henry W. (See Hacking and Hill.)
Hill, Hermann, Warwood, assignor to Steel Fireproofing Company, Wheeling, W. Va. Making expanded metal. No. 980,638; Jan. 3; Sp. p. 979; Gaz. vol. 162; p. 160.
Hill, Hiram M. (See Farrington and Hill.)
Hill, Howard L., Lake Mills, Iowa. Film-spool. No. 988,341; Apr. 4; Sp. p. 104; Gaz. vol. 165; p. 19.
Hill-Independent Mfg. Co. (See Stewart, Robert A., assignor.)
Hill, Isobel, Denver, Colo. Toilet cap or hair-guard. No. 1,002,060; Aug. 29; Sp. p. 6117; Gaz. vol. 169; p. 1105.
Hill, Jacob L., Philadelphia, Pa., assignor to Slip Scarf Company. Necktie. No. 1,005,835; Oct. 17; Sp. p. 2772; Gaz. vol. 171; p. 505.
Hill, James B., Raceland, La. Soil-pulverizer. No. 1,006,752; Oct. 24; Sp. p. 4819; Gaz. vol. 171; p. 857.
Hill, James F. (See Rawstron, Donald, assignor.)
Hill, James H., assignor to Defiance Lantern & Stamping Co., Rochester, N. Y. Lantern. No. 983,281; Feb. 7; Sp. p. 51; Gaz. vol. 163; p. 10.
Hill, James H., assignor to Embury Manufacturing Company, Rochester, N. Y. Lantern-globe lifter. No. 990,048; Apr. 18; Sp. p. 3766; Gaz. vol. 165; p. 651.
Hill, John B., Blackhawk, Colo. Wheeled figure toy. No. 1,008,822; Nov. 14; Sp. p. 2685; Gaz. vol. 172; p. 451.
Hill, John F., Griffin, Ga. Faucet. No. 982,675; Jan. 24; Sp. p. 5477; Gaz. vol. 162; p. 944.
Hill, John T., Cleveland, Ohio. Insecticide producing and spraying apparatus. No. 985,174; Feb. 28; Sp. p. 4147; Gaz. vol. 163; p. 754.
Hill, Joseph, and K. Kosâc, Chicago, Ill. Tailor's press. No. 981,422; Jan. 10; Sp. p. 2866; Gaz. vol. 162; p. 462.
Hill, Joseph T., Spencer, Ind. Apparatus for filling bags and the like. No. 989,010; Apr. 11; Sp. p. 1512; Gaz. vol. 165; p. 265.
Hill, Joseph W., *et al.* (See Gröndahl, Wilhelm A., assignor.)
Hill, Laura, Seattle, Wash. Raft. No. 1,007,444; Oct. 31; Sp. p. 6357; Gaz. vol. 171; p. 1154.
Hill, Leonard S., Brooklyn, N. Y. Insecticide-holder. No. 981,264; Jan. 10; Sp. p. 2506; Gaz. vol. 162; p. 407.
Hill, Leonidas C., Harlingen, Tex. Machine for exterminating insects. No. 996,337; June 27; Sp. p. 4942; Gaz. vol. 167; p. 870.
Hill, Milton B., Worcester, Mass. Holdback and face-plate dog for lathes. No. 995,003; June 13; Sp. p. 2002; Gaz. vol. 167; p. 350.
Hill, Myron E. (See Lewis, Clifford A., assignor.)
Hill, Norman A., Baltimore, Md. Air-brake. No. 1,007,105; Oct. 31; Sp. p. 5621; Gaz. vol. 171; p. 1033.
Hill, Peter W., Dorchester, Mass. Ladder. No. 990,267; Apr. 25; Sp. p. 4243; Gaz. vol. 165; p. 757.
Hill, Peter W., Boston, Mass. Mold for concrete. No. 1,008,264; Nov. 7; Sp. p. 1327; Gaz. vol. 172; p. 217.
Hill, Robert J., Camden, N. J., assignor to Smith & Furbush Machine Company, Philadelphia, Pa. Condensing apparatus for carding-machines. No. 996,037; June 20; Sp. p. 4222; Gaz. vol. 167; p. 733.
Hill, Roy M., assignor of one-eighth to A. F. Randall, Somerville, and one-eighth to J. A. Holton, Boston, Mass. Apparatus for producing illusory effects. No. 1,003,905; Sept. 19; Sp. p. 3710; Gaz. vol. 170; p. 661.
Hill, Stephen T. (See Fink and Hill.)
Hill, Sterling B., C. E., and W. R., Seattle, Wash. Air-compressor. No. 1,005,212; Oct. 10; Sp. p. 1371; Gaz. vol. 171; p. 253.
Hill, Terelius A., Maryville, Tenn. Gate. No. 983,229; Jan. 31; Sp. p. 6669; Gaz. vol. 162; p. 1159.
Hill, Thomas, Kingston-upon-Hull, England. Machine or apparatus for cleaning bottles. No. 992,664; May 16; Sp. p. 3927; Gaz. vol. 166; p. 700.
Hill, Thomas D. (See Camp, Samuel G., assignor.)
Hill, Wallace J., Marion, Ohio. Car-brake. No. 989,360; Apr. 11; Sp. p. 2264; Gaz. vol. 165; p. 384.
Hill, Walter, Barryville, N. Y. Record-cabinet. No. 1,008,823; Nov. 14; Sp. p. 2687; Gaz. vol. 172; p. 452.
Hill, Wilfred R., Oakland, Cal. Chin-support. No. 1,003,137; Sept. 12; Sp. p. 2097; Gaz. vol. 170; p. 361.
Hill, William, Alexandria, La. Chocking mechanism for compresses. No. 997,129; July 4; Sp. p. 1118; Gaz. vol. 168; p. 181.
Hill, William E. (See Jones, Wyatt A. O., assignor.)
Hill, William E., Charleston, Ill. Lawn-trimming attachment. No. 1,010,260; Nov. 28; Sp. p. 5720; Gaz. vol. 172; p. 1023.
Hill, William H., *et al.* (See Selleck, Silas E., assignor.)
Hill, William J. (See Ford, Harry J., assignor.)
Hill, William R. (See Hill, Sterling B., C. E., and W. R.)
Hillard, Frederic W., New York, N. Y. Type-writing machine. No. 1,011,786; Dec. 12; Sp. p. 3114; Gaz. vol. 173; p. 521.

Hillard, John D., Jr., and C. E. Parsons, Glens Falls, N. Y. Lightning-arrester. No. 1,005,033; Oct. 3; Sp. p. 1013; Gaz. vol. 171; p. 169.
Hille, Charles L., Boston, Mass. Watch-fob. No. 1,010,911; Dec. 5; Sp. p. 1140; Gaz. vol. 173; p. 179.
Hiller, Gustav, Zittau, Germany. Machine for leasing warps. No. 983,995; Feb. 14; Sp. p. 1626; Gaz. vol. 163; p. 282.
Hiller, Nicolai H., Carbondale, Pa. Heat-exchanger. No. 998,292; July 18; Sp. p. 3699; Gaz. vol. 168; p. 659.
Hillgrove, Robert. (See Toomey, Simon, assignor.)
Hilliard, Beverly C., Philadelphia, Pa. Etching apparatus. No. 1,001,031; Aug. 22; Sp. p. 3970; Gaz. vol. 169; p. 730.
Hilliard, John D., Albany, N. Y. Preserving wooden poles. No. 1,001,144; Aug. 22; Sp. p. 4201; Gaz. vol. 169; p. 769.
Hilliard, John D., and C. E. Parsons, Albany, N. Y. Switching device for electrical circuits. No. 1,009,748; Nov. 28; Sp. p. 4692; Gaz. vol. 172; p. 851.
Hillman, Henry G. (See Lumley and Hillman.)
Hillman, Henry G., New York, N. Y. Safety device. No. 981,423; Jan. 10; Sp. p. 2868; Gaz. vol. 162; p. 463.
Hillman, Henry G., assignor to J. T. Clarke, New York, N. Y. Elevator safety device. No. 981,424; Jan. 10; Sp. p. 2871; Gaz. vol. 162; p. 463.
Hillmer, Theodor, Bucharest, Roumania. Device for weighing liquids contained in storage-reservoirs. No. 988,342; Apr. 4; Sp. p. 105; Gaz. vol. 165; p. 19.
Hills, Henry A., Grand Rapids, Mich. Safety device for electrically-heated implements. No. 1,008,411; Nov. 14; Sp. p. 1769; Gaz. vol. 172; p. 308.
Hills, John C., Melrose, Mass. Article of furniture. No. 1,002,844; Sept. 12; Sp. p. 1469; Gaz. vol. 170; p. 261.
Hills, John L., Kalgoorlie, Western Australia, Australia. Locomotive ash-pan. No. 980,258; Jan. 3; Sp. p. 149; Gaz. vol. 162; p. 29.
Hills, Leon P., Tuolumne, Cal., assignor of one-fifth to P. M. McHugh, Golden, Colo., and two-fifths to J. F. Thomasson, Tuolumne, Cal. Air-lift for agitators for ore or other materials. No. 994,679; June 6; Sp. p. 1222; Gaz. vol. 167; p. 199.
Hillstrom, Alfred, Pullman, Ill. Automatic shock-loader. No. 992,665; May 16; Sp. p. 3930; Gaz. vol. 166; p. 701.
Hillyer, George H., assignor of one-third to E. A. Connell, Plattsburg, N. Y. Combined storage and vending apparatus. No. 1,004,427; Sept. 26; Sp. p. 4930; Gaz. vol. 170; p. 867.
Hillyer, George H., assignor of one-third to E. A. Connell, Plattsburg, N. Y. Beverage-dispensing mechanism. No. 1,004,428; Sept. 26; Sp. p. 4933; Gaz. vol. 170; p. 868.
Hilprecht, Robert, Lansing, Mich. Grate. No. 983,716; Feb. 7; Sp. p. 990; Gaz. vol. 163; p. 157.
Hilton, Frank M., J. S., and W. W., Akron, Ohio. Tire-clamp for vehicle-wheels. No. 1,011,345; Dec. 12; Sp. p. 2144; Gaz. vol. 173; p. 366.
Hilton, George O., assignor to The Ideal Manufacturing Company, Detroit, Mich. Flushing-valve. No. 1,004,650; Oct. 3; Sp. p. 215; Gaz. vol. 171; p. 37.
Hilton, George T., and F. B. Coppell, Rugby, assignors to Rotax Motor and Cycle Company, London, England. Adjustable lamp-bracket for motor-cars and other vehicles. No. 984,813; Feb. 21; Sp. p. 3390; Gaz. vol. 163; p. 598.
Hilton, Jesse G., Murfreesboro, Ark. Clothes-pin. No. 984,219; Feb. 14; Sp. p. 2107; Gaz. vol. 163; p. 358.
Hilton, Jesse G., Prescott, Ark. Air-cushion. No. 984,220; Feb. 14; Sp. p. 2108; Gaz. vol. 163; p. 358.
Hilton, Jesse G., Mena, Ark. Oil-burner. No. 992,129; May 9; Sp. p. 2735; Gaz. vol. 166; p. 484.
Hilton, John S. (See Hilton, Frank M., J. S., and W. W.)
Hilton, Orrin N., Denver, Colo. Match-box case. No. 1,008,265; Nov. 7; Sp. p. 1329; Gaz. vol. 172; p. 217.
Hilton, Orrin N., and L. Grossman, Denver, Colo. Match-box case. No. 1,004,429; Sept. 26; Sp. p. 4936; Gaz. vol. 170; p. 869.
Hilton, Robert R. (See Jones and Hilton.)
Hilton, William W. (See Hilton, Frank M., J. S., and W. W.)
Himebaugh, A. C. (See Benninghoff, Joseph M., assignor.)
Himes, Orville J., Oswego, N. Y. Holder for lamp-chimneys. No. 989,150; Apr. 11; Sp. p. 1803; Gaz. vol. 165; p. 313.
Himmel, Solomon. (See Miller, Andrew E., assignor.)
Himmes, Jacob, Chicago, Ill. Platform-scale. No. 987,627; Mar. 21; Sp. p. 3913; Gaz. vol. 164; p. 697.
Hinckley, Frederick P., Jackson, Mich. Baling-press. No. 989,260; Apr. 11; Sp. p. 2049; Gaz. vol. 165; p. 350.
Hinckley, Henry D., assignor of one-half to W. T. Halliday, Hartford, Conn. Automatic electrically-governed engine-controlling apparatus. No. 996,854; July 4; Sp. p. 523; Gaz. vol. 168; p. 86.
Hinckley, Otis W., *et al.* (See Walter, William H., assignor.)
Hinde, James J., Sandusky, Ohio. Machine for making paper-board. No. 1,005,836; Oct. 17; Sp. p. 2775; Gaz. vol. 171; p. 505.
Hinderliter, Richard W., Ellinwood, Kans. Feeder and loader. No. 990,874; May 2; Sp. p. 104; Gaz. vol. 166; p. 19.

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Hindinger, George W., Hamden, Conn. Machine for punching hats. No. 996,338; June 27; Sp. p. 4944; Gaz. vol. 167; p. 870.
Hindle, Alfred E., Grand View, Vancouver, British Columbia, Canada. Car-ticket holder. No. 1,001,402; Aug. 22; Sp. p. 4745; Gaz. vol. 169; p. 855.
Hindman, Asa W., Chester, Nebr. Coupling and steering device. No. 986,568; Mar. 14; Sp. p. 1725; Gaz. vol. 164; p. 305.
Hindman, James T. (See McCarty and Hindman.)
Hinds, Hattie D., Rutland, Vt. Jar-wrench. No. 1,005,213; Oct. 10; Sp. p. 1374; Gaz. vol. 171; p. 253.
Hinds, Ozro H., Le Mars, Iowa. Spring-wheel. No. 1,002,692; Sept. 5; Sp. p. 1129; Gaz. vol. 170; p. 170.
Hinds, Ozro H., Le Mars, Iowa. Tire. No. 1,002,693; Sept. 5; Sp. p. 1131; Gaz. vol. 170; p. 170.
Hinds, Peter J., and E. S. Ferris, assignors of one-third to A. J. Richards, Holyoke, Mass. Doffing-wire. No. 1,000,909; Aug. 15; Sp. p. 3641; Gaz. vol. 169; p. 654.
Hine, John E. (See Miller and Hine.)
Hine, Lucian J., assignor of one-half to B. F. Watkins, Winston Salem, N. C. Spike or fastening. No. 988,779; Apr. 4; Sp. p. 1053; Gaz. vol. 165; p. 168.
Hine, William C., Conneaut, Ohio. Electric-lamp fixture. No. 999,998; Aug. 8; Sp. p. 1611; Gaz. vol. 169; p. 303.
Hines, Albert B., Washington, D. C., assignor to The American Dairy Supply Company, Augusta, Me. Machine for making receptacle-closures. No. 1,011,787; Dec. 12; Sp. p. 3121; Gaz. vol. 173; p. 521.
Hines, Alfred, Wasco, Oreg. Traveling reaper and thresher. No. 989,151; Apr. 11; Sp. p. 1804; Gaz. vol. 165; p. 314.
Hines, George, Pottsville, assignor of one-half to U. G. Mengel, Frackville, Pa. Life-preserver. No. 1,010,426; Dec. 5; Sp. p. 50; Gaz. vol. 173; p. 10.
Hines, Louis L., Jena, La. Nut-lock. No. 993,371; May 30; Sp. p. 5456; Gaz. vol. 166; p. 1005.
Hinkle, Paris R., Los Angeles, Cal. Nut-lock. No. 1,001,269; Aug. 22; Sp. p. 4417; Gaz. vol. 169; p. 808.
Hinman, George M., Lindsay, Cal. Electric time-alarm for hotels, &c. No. 982,495; Jan. 24; Sp. p. 5124; Gaz. vol. 162; p. 884.
Hinrichs, John P., Napa, Cal. Clamp for lumber and the like. No. 1,003,108; Sept. 12; Sp. p. 2045; Gaz. vol. 170; p. 352.
Hinz, Albert G., Minneapolis, Minn. Governor-controlled friction-clutch. No. 987,987; Mar. 28; Sp. p. 4774; Gaz. vol. 164; p. 851.
Hiorth, Karl A. F., Christiania, Norway. Electric induction smelting-furnace. No. 980,259; Jan. 3; Sp. p. 151; Gaz. vol. 162; p. 30.
Hiorth, Karl A. F., Christiania, Norway. Electric melting-furnace. No. 980,781; Jan. 3; Sp. p. 1286; Gaz. vol. 162; p. 207.
Hipp, Hermann, Staufen, Germany. Vat-washing-machine ring. No. 986,712; Mar. 14; Sp. p. 2025; Gaz. vol. 164; p. 355.
Hippee, George B., Des Moines, Iowa. Railway-car. No. 997,389; July 11; Sp. p. 1659; Gaz. vol. 168; p. 300.
Hippisley, Arthur, Bath, England. Carbureter. No. 1,006,088; Oct. 17; Sp. p. 3322; Gaz. vol. 171; p. 593.
Hipssich, Karl, Bremen, Germany. Flying-machine. No. 986,002; Mar. 7; Sp. p. 540; Gaz. vol. 164; p. 86.
Hipwell, Harry H. and H. T., Pittsburg, Pa. Display-frame. No. 1,001,403; Aug. 22; Sp. p. 4746; Gaz. vol. 169; p. 856.
Hipwell, Harry T. (See Hipwell, Harry H. and H. T.)
Hipwell, Howard S., Reading, Pa. Gas-cock. No. 993,372; May 30; Sp. p. 5457; Gaz. vol. 166; p. 1005.
Hipwood, George, New York, N. Y. Automatic fender. No. 1,012,637; Dec. 26; Sp. p. 4967; Gaz. vol. 173; p. 893.
Hirmer, Andrew, Millvale, Pa. Toy. No. 1,003,359; Sept. 12; Sp. p. 2566; Gaz. vol. 170; p. 442.
Hirons, William. (See Johnston and Hirons.)
Hirsch, Nathan, New York, N. Y. Fabric and treating the same. No. 991,988; May 9; Sp. p. 2459; Gaz. vol. 166; p. 437.
Hirschberg, Hermann M. (See Dinsmoor, John L., assignor.)
Hirschberg, Solomon C., New York, N. Y. Match-box. No. 982,363; Jan. 24; Sp. p. 4840; Gaz. vol. 162; p. 838.
Hirschfeld, Leo, New York, N. Y. Cutting-machine. No. 981,425; Jan. 10; Sp. p. 2874; Gaz. vol. 162; p. 463.
Hirschkorn, Daniel F., Lead, S. D. Motor-sleigh. No. 988,343; Apr. 4; Sp. p. 107; Gaz. vol. 165; p. 20.
Hirsh, Allan M., Montclair, N. J., assignor to Lock Joint Pipe Company, New York, N. Y. Sectional concrete pipe and making same. No. 1,004,570; Oct. 3; Sp. p. 49; Gaz. vol. 171; p. 10.
Hirsh, William V. (See Ostergren, Oscar P., assignor.)
Hirshfeld, Charles F., *et al.* (See Clapp, George L., assignor.)
Hirst, Franklin G., Philadelphia, Pa. Alternating-gas-burner attachment. No. 1,010,049; Nov. 28; Sp. p. 5314; Gaz. vol. 172; p. 953.
Hirst, Harry R., assignor of one-half to C. S. Knowles, New Bedford, and one-half J. H. Parker, Saugus, Mass. Electric switch. No. 1,001,032; Aug. 22; Sp. p. 3971; Gaz. vol. 169; p. 730.
Hirst, Jesse B., Chicago, Ill. Gas-pressure reducing and regulating mechanism. No. 985,175; Feb. 28; Sp. p. 4148; Gaz. vol. 163; p. 754.
Hirst, John C., Reynoldsville, Pa. Cutter-head for mining-machines. No. 990,554; Apr. 25; Sp. p. 4918; Gaz. vol. 165; p. 858.
Hirzel, Heinrich, Leipzig-Plagwitz, Germany. Distilling apparatus. No. 991,205; May 2; Sp. p. 805; Gaz. vol. 166; p. 137.
Hiscock, Emory C., Chicago, Ill. Laminated board. No. 982,720; Jan. 24; Sp. p. 5572; Gaz. vol. 162; p. 959.
Hiscock, Emory C., assignor to W. W. Kimball Company, Chicago, Ill. Self-playing musical instrument. No. 992,772; May 23; Sp. p. 4148; Gaz. vol. 166; p. 768.
Hist, John, Berea, Ohio. Potato-digger. No. 1,009,665; Nov. 21; Sp. p. 4501; Gaz. vol. 172; p. 775.
Hitch, John E., Dayton, assignor to The Auto-Steam Vulcanizer Company, Cincinnati, Ohio. Vulcanizing apparatus. No. 999,029; July 25; Sp. p. 5339; Gaz. vol. 168; p. 950.
Hitchcock, Charles H., Boston, Mass. Automatic boat-bailer. No. 983,620; Feb. 7; Sp. p. 783; Gaz. vol. 163; p. 124.
Hitchcock, Daniel N., Kansas City, Mo. Disinfecting device. No. 997,914; July 11; Sp. p. 2817; Gaz. vol. 168; p. 481.
Hitchcock, F. H. (See Mueller, Eduard F., assignor.)
Hitchcock, Halbert K., Tarentum, Pa. Charging glass-pots. No. 990,555; Apr. 25; Sp. p. 4920; Gaz. vol. 165; p. 858.
Hitchfield, John G., Berkeley, Cal. Oil-tank construction. No. 991,507; May 9; Sp. p. 1448; Gaz. vol. 166; p. 272.
Hitchings, Samuel. (See Hughes, Hugh T., assignor.)
Hitchon, Alfred, Clayton-le-Dale, England, assignor to Howard & Bullough American Machine Company, Limited, Pawtucket, R. I. Cotton opener and feeder. No. 1,005,034; Oct. 3; Sp. p. 1017; Gaz. vol. 171; p. 169.
Hite, Charles E., Burlington, N. J. Primary battery. No. 996,764; July 4; Sp. p. 333; Gaz. vol. 168; p. 56.
Hitner, Harry F., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburg, Pa. Cap lifting and moving device. No. 980,951; Jan. 10; Sp. p. 1714; Gaz. vol. 162; p. 295.
Hitner, Harry F., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburg, Pa. Apparatus for blowing glass cylinders. No. 987,137; Mar. 21; Sp. p. 2880; Gaz. vol. 164; p. 529.
Hitt, Ellet L., Weiser, Idaho. Stovepipe attachment for tents. No. 1,009,516; Nov. 21; Sp. p. 4229; Gaz. vol. 172; p. 728.
Hitzroth, George, Hamilton, Ontario, Canada. Game apparatus. No. 984,920; Feb. 21; Sp. p. 3588; Gaz. vol. 163; p. 633.
Hjertquist, Knut, Boone, Iowa. Envelop-moistener. No. 986,984; Mar. 14; Sp. p. 2577; Gaz. vol. 164; p. 446.
Hjorth, Henry J., Cambridge, Mass. Tail-stock. No. 981,426; Jan. 10; Sp. p. 2877; Gaz. vol. 162; p. 464.
Hjorth, Henry J., Cambridge, Mass. End-thrust adjustment for machine-spindles. No. 989,261; Apr. 11; Sp. p. 2055; Gaz. vol. 165; p. 350.
Hjorth, Henry J., Cambridge, Mass. Head-stock or chuck. No. 1,005,214; Oct. 10; Sp. p. 1376; Gaz. vol. 171; p. 253.
Hladky, Joseph, Rossville, Kans. Spreader-crane. No. 981,561; Jan. 10; Sp. p. 3119; Gaz. vol. 162; p. 509.
Hlarac, Anthony. (See Howe, John W., assignor.)
Hloch, Franz, Mähr, Schönberg, Austria-Hungary. Apparatus for making asbestos-cement slabs and the like. No. 1,005,706; Oct. 10; Sp. p. 2498; Gaz. vol. 171; p. 428.
Hoag, Harry, Fort Worth, Tex. Sign. No. 996,715; July 4; Sp. p. 241; Gaz. vol. 168; p. 41.
Hoage, Leon, New York, assignor of one-half to P. Bertin, Brooklyn, N. Y. Metal girder-frame and making the same. No. 991,779; May 9; Sp. p. 2028; Gaz. vol. 166; p. 365.
Hoback, Archie J., Jr., Roanoke, Va. Sanitary stamp-moistener. No. 985,345; Feb. 28; Sp. p. 4515; Gaz. vol. 163; p. 812.
Hobart, Adam J., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Valve for pneumatic piano-actions and similar devices. No. 985,033; Feb. 21; Sp. p. 3799; Gaz. vol. 163; p. 671.
Hobart, Adam J., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Pneumatic action for pianos and similar musical instruments. No. 986,288; Mar. 7; Sp. p. 1103; Gaz. vol. 164; p. 177.
Hobart, Adam J., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Autopneumatic piano. No. 989,152; Apr. 11; Sp. p. 1812; Gaz. vol. 165; p. 314.
Hobart, Franklin G. (See Gore and Hobart.)
Hobart, Melvin R., and J. H. Scott, Chicago, Ill. Whisk-broom. No. 983,053; Jan. 31; Sp. p. 6337; Gaz. vol. 162; p. 1101.
Hobart, Robert E., Lansford, Pa. Separator. No. 1,005,428; Oct. 10; Sp. p. 1870; Gaz. vol. 171; p. 331.
Hobart, William C., assignor to The Chehalis Fir Door Company, Chehalis, Wash. Patching woods. No. 1,005,546; Oct. 10; Sp. p. 2120; Gaz. vol. 171; p. 373.
Hobbs, Elbert R., Buhl, Idaho. Ringing-key. No. 983,898; Feb. 14; Sp. p. 1406; Gaz. vol. 163; p. 250.

Alphabetical list of patentees—Continued.

Hobbs, Francis C., assignor to The Brunswick-Balke-Collender Company of New York, New York, N. Y. Pin-setting apparatus for bowling-alleys. No. 998,001; July 18; Sp. p. 3027; Gaz. vol. 168; p. 553.
Hobbs, Frank C., New York, assignor to The Brunswick-Balke-Collender Company of New York, New York county, N. Y. Billiard-counter. No. 993,994; May 30; Sp. p. 6774; Gaz. vol. 166; p. 1217.
Hobbs, John O., Chicago, Ill. Carbureter. No. 1,001,847; Aug. 29; Sp. p. 5658; Gaz. vol. 169; p. 1036.
Hobbs, Robert D., Chicago, Ill. Clevis. No. 981,427; Jan. 10; Sp. p. 2880; Gaz. vol. 162; p. 464.
Hobbs, Roe R., Louisville, Ky. Automatic telephone-selector or ringing device. No. 983,899; Feb. 14; Sp. p. 1412; Gaz. vol. 163; p. 250.
Hobbs, Rush L., Sumner, Ill. Valve. No. 982,815; Jan. 31; Sp. p. 5794; Gaz. vol. 162; p. 1020.
Hobe, Harry K., San Francisco, Cal. Locking device for clip-files. No. 1,012,202; Dec. 19; Sp. p. 4072; Gaz. vol. 173; p. 699.
Hoben, John M. (See Strange and Hoben.)
Hobson, Benjamin F., Rison, Ark. Tire-setter. No. 993,995; May 30; Sp. p. 6776; Gaz. vol. 166; p. 1217.
Hobson, Charles F., St. Helena, Cal. Saw-filing machine. No. 997,817; July 11; Sp. p. 2611; Gaz. vol. 168; p. 448.
Hoch, Adam, assignor to Wendling-Hoch Adding Machine Company, San Francisco, Cal. Adding-machine. No. 1,004,877; Oct. 3; Sp. p. 714; Gaz. vol. 171; p. 117.
Hochhausen, Herman T., Brooklyn, N. Y. Lamp-receptacle and holding means therefor. No. 984,561; Feb. 21; Sp. p. 2856; Gaz. vol. 163; p. 508.
Hock, Edward C., Pittsburg, Pa. Water heater or boiler. No. 995,139; June 13; Sp. p. 2279; Gaz. vol. 167; p. 395.
Hockenbury, Jonas D. (See Applebaugh and Hockenbury.)
Hockett, Clarkson P. (See Arnold and Hockett.)
Hockett, Frank C. (See Shakley, Samuel D., assignor.)
Hockinson, Karl E. O., Chicago, Ill. Means for operating car-platforms. No. 999,450; Aug. 1; Sp. p. 509; Gaz. vol. 169; p. 89.
Hocquart, Edouard L., Paris, France. Approach for moving transporting-bodies. No. 982,816; Jan. 31; Sp. p. 5795; Gaz. vol. 162; p. 1020.
Hocter, Robert P., Pittsburg, Pa. Metallic tie and rail-fastener. No. 995,140; June 13; Sp. p. 2281; Gaz. vol. 167; p. 395.
Hodd, Donald V., Hamilton, Ontario, Canada. Belt-sand-papering machine. No. 1,010,761; Dec. 5; Sp. p. 816; Gaz. vol. 173; p. 127.
Hodder, Albert E., assignor to Auto-Hydraulic Limited, London, England. Liquid-container and valve mechanism therefor particularly applicable for use in water and like elevators. No. 982,364; Jan. 24; Sp. p. 4842; Gaz. vol. 162; p. 838.
Hodgdon, Walter E., Portland, Me. Liquid-dispensing apparatus. No. 987,363; Mar. 21; Sp. p. 3383; Gaz. vol. 164; p. 608.
Hodge, Arthur J., Pasadena, Cal., assignor, by mesne assignments, to Illinois Rawhide Box Co., Chicago, Ill. Corner-fastening for boxes. No. 1,000,600; Aug. 15; Sp. p. 2987; Gaz. vol. 169; p. 546.
Hodge, Frank R., Revere, Mass. Concrete building construction. No. 999,030; July 25; Sp. p. 5342; Gaz. vol. 168; p. 951.
Hodge, Howard D., Essex, England, assignor to Nobel's Explosives Company, Limited, Glasgow, Scotland. Machine for breaking up cartridge-shells. No. 982,496; Jan. 24; Sp. p. 5126; Gaz. vol. 162; p. 884.
Hodge, William B. (See Cramer and Hodge.)
Hodges, Addison S., Somerville, assignor to Seamless Sash Weight Company, Salem, Mass. Apparatus for molding seamless sash-weights. No. 982,817; Jan. 31; Sp. p. 5796; Gaz. vol. 162; p. 1021.
Hodges, Addison S., Somerville, assignor to Seamless Sash Weight Company, Salem, Mass. Molding sash-weights. No. 982,818; Jan. 31; Sp. p. 5800; Gaz. vol. 162; p. 1021.
Hodges, Addison S., Somerville, assignor to Seamless Sash Weight Company, Salem, Mass. Apparatus for molding seamless sash-weights. No. 987,299; Mar. 21; Sp. p. 3260; Gaz. vol. 164; p. 587.
Hodges, Charles P., Brownsville, S. C. Cultivator. No. 1,001,955; Aug. 29; Sp. p. 5919; Gaz. vol. 169; p. 1072.
Hodges, Clarence B., assignor to Detroit Lubricator Company, Detroit, Mich. Lubricator. No. 994,316; June 6; Sp. p. 434; Gaz. vol. 167; p. 75.
Hodges, Emery C., Joliet, Ill. Apparatus for heating, cooling, and ventilating buildings. No. 982,721; Jan. 24; Sp. p. 5574; Gaz. vol. 162; p. 959.
Hodges, Henry C., Detroit, Mich. Car-truck. No. 1,006,943; Oct. 24; Sp. p. 5262; Gaz. vol. 171; p. 925.
Hodges, James C., Attleboro, Mass. Suspenders. No. 983,900; Feb. 14; Sp. p. 1413; Gaz. vol. 163; p. 250.
Hodges, John F. C., German's Hill, near Orange, New South Wales, assignor of one-half to G. W. Griffith, Manildra, Australia. Plowshare. No. 989,361; Apr. 11; Sp. p. 2266; Gaz. vol. 165; p. 384.
Hodges, Vera C., Los Angeles, Cal. Single-trigger mechanism. No. 1,011,432; Dec. 12; Sp. p. 2311; Gaz. vol. 173; p. 395.
Hodgetts, Charles V., Birmingham, England. Striking-surface for matches. No. 995,141; June 13; Sp. p. 2282; Gaz. vol. 167; p. 396.
Hodgkins, Benjamin S., Lewiston, Me. Flush-tank control. No. 990,132; Apr. 18; Sp. p. 3927; Gaz. vol. 165; p. 677.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Turbine-governing mechanism. No. 982,819; Jan. 31; Sp. p. 5803; Gaz. vol. 162; p. 1021.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Feed-water heater. No. 983,282; Feb. 7; Sp. p. 52; Gaz. vol. 163; p. 11.
Hodgkinson, Francis, Edgewood Park, Pa., assignor to The Westinghouse Machine Company. Fluid-pressure turbine. No. 992,194; May 16; Sp. p. 2886; Gaz. vol. 166; p. 538.
Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburg, Pa. Turbine cylinder-lining. No. 994,680; June 6; Sp. p. 1226; Gaz. vol. 167; p. 200.
Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburg, Pa. Cylinder-lining for steam-turbines. No. 994,681; June 6; Sp. p. 1229; Gaz. vol. 167; p. 200.
Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburg, Pa. Elastic-fluid turbine. No. 996,855; July 4; Sp. p. 529; Gaz. vol. 168; p. 87.
Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Blade-holding means for turbines. No. 1,010,630; Dec. 5; Sp. p. 518; Gaz. vol. 173; p. 81.
Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Rotary motor. No. 1,011,788; Dec. 12; Sp. p. 3128; Gaz. vol. 173; p. 522.
Hodgkinson, Francis, Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Balancing means for fluid-pressure motors. No. 1,012,638; Dec. 26; Sp. p. 4971; Gaz. vol. 173; p. 893.
Hodgkinson, Frank E., Clerkenwell, London, assignor to G. W. Jones, London, England. Paper-feeding mechanism. No. 985,592; Feb. 28; Sp. p. 5082; Gaz. vol. 163; p. 898.
Hodgkinson, Percy W., assignor of one-fourth to W. H. Caldwell, Rochester, N. Y. Valve. No. 980,260; Jan. 3; Sp. p. 151; Gaz. vol. 162; p. 30.
Hodgkinson, Percy W., assignor of one-half to W. J. Burden, Rochester, N. Y. Machine for affixing closures to bottles. No. 985,803; Mar. 7; Sp. p. 69; Gaz. vol. 164; p. 15.
Hodgkinson, Percy W., assignor to Caldwell Manufacturing Company, Rochester, N. Y. Emergency exit-door lock. No. 990,358; Apr. 25; Sp. p. 4453; Gaz. vol. 165; p. 788.
Hodgkinson, Percy W., assignor of one-half to F. F. Dorsey, Rochester, N. Y. Engine-starter. No. 990,556; Apr. 25; Sp. p. 4924; Gaz. vol. 165; p. 859.
Hodgkinson, Percy W., assignor of one-fourth to J. C. Lombard, Rochester, N. Y. Cam mechanism. No. 1,012,851; Dec. 26; Sp. p. 5468; Gaz. vol. 173; p. 967.
Hodgkiss, Joseph. (See Burk and Rigby, assignors.)
Hodgman, Burt B. (See Mueller and Hodgman.)
Hodgson, Albert E., assignor to The "Reivante" Motor Works, Walthamstow, England. Seat and body of motor-cars and other road-carriages. No. 991,307; May 2; Sp. p. 1040; Gaz. vol. 166; p. 173.
Hodgson, Christopher P., assignor to A. G. Morse Company, Chicago, Ill. Box for candy and similar articles. No. 1,011,056; Dec. 5; Sp. p. 1430; Gaz. vol. 173; p. 227.
Hodgson, James N., Bluefields, Nicaragua. Lamp-burner. No. 980,952; Jan. 10; Sp. p. 1716; Gaz. vol. 162; p. 296.
Hodgson, Jesse M., Lookout, Okla. Wrench. No. 994,682; June 6; Sp. p. 1231; Gaz. vol. 167; p. 201.
Hodgson, John A., Long Island City, N. Y. Saw-set. No. 1,001,642; Aug. 29; Sp. p. 5204; Gaz. vol. 169; p. 965.
Hodgson, John G., Maywood, Ill. Resilient-tire-seating rim for vehicle-wheels. No. 996,246; June 27; Sp. p. 4714; Gaz. vol. 167; p. 839.
Hodgson, John G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Manufacturing lacquered or protective-coated cans. No. 998,176; July 18; Sp. p. 3412; Gaz. vol. 168; p. 616.
Hodgson, John G., Maywood, Ill., assignor to American Can Company, New York, N. Y. Manufacturing lacquered or protective-coated cans. No. 998,900; July 25; Sp. p. 5037; Gaz. vol. 168; p. 904.
Hodgson, John G. and J. G., Jr., Maywood, Ill. Demountable rim for vehicle-wheel tires. No. 981,265; Jan. 10; Sp. p. 2507; Gaz. vol. 162; p. 408.
Hodgson, John G. and J. G., Jr., Maywood, Ill. Demountable vehicle-rim for resilient tires. No. 981,266; Jan. 10; Sp. p. 2509; Gaz. vol. 162; p. 408.
Hodgson, John G. and J. G., Jr., Maywood, Ill. Demountable resilient-tire-seating rim for motor-car or other vehicle wheels. No. 981,594; Jan. 10; Sp. p. 3187; Gaz. vol. 162; p. 520.
Hodgson, John G., Jr. (See Hodgson, John G. and J. G., Jr.)

Alphabetical list of patentees—Continued.

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Hodinger, Otto A., Oneida, N. Y. Hose-coupling. No. 987,463; Mar. 21; Sp. p. 3608; Gaz. vol. 164; p. 642.
Hodskinson, Jabez H., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Buffing-machine. No. 1,002,845; Sept. 12; Sp. p. 1471; Gaz. vol. 170; p. 261.
Hoecker, Albert C., Collinsville, Ill. Coal-washing jig. No. 994,160; June 6; Sp. p. 112; Gaz. vol. 167; p. 21.
Hoefer, Erich, and M. Mugdan, Nuremberg, Germany. Producing acetylene tetrachlorid. No. 985,528; Feb. 28; Sp. p. 4948; Gaz. vol. 163; p. 876.
Hoefer, Frederick W., assignor to Hoefer Manufacturing Company, Freeport, Ill. Twist-drill. No. 1,002,846; Sept. 12; Sp. p. 1477; Gaz. vol. 170; p. 261.
Hoefer, Georg, and G. A. Strohhaecker, Milwaukee, Wis. Wrapping for cased meats. No. 982,497; Jan. 24; Sp. p. 5130; Gaz. vol. 162; p. 885.
Hoefer Manufacturing Company. (See Hoefer, Frederick W., assignor.)
Hoeft, Max, Berlin, Germany. Tachometer. No. 1,005,035; Oct. 3; Sp. p. 1020; Gaz. vol. 171; p. 170.
Hoeft, Orin H., Brownlee, Nebr. Knife-switch. No. 989,362; Apr. 11; Sp. p. 2267; Gaz. vol. 165; p. 385.
Hoegren, Anders G., assignor to The Handy Glove Fastener Company, Chicago, Ill. Fastening device. No. 1,008,911; Nov. 14; Sp. p. 2850; Gaz. vol. 172; p. 480.
Hoehn, Frederick, and A. Gerdum, Lakewood, assignors to The Walworth Run Foundry Company, Cleveland, Ohio. Wall-register. No. 1,004,026; Sept. 26; Sp. p. 4045; Gaz. vol. 170; p. 730.
Hoel, Rion, Norwood, Ohio. Portable sash and door holding means. No. 986,289; Mar. 7; Sp. p. 1104; Gaz. vol. 164; p. 178.
Hoelsche, Edmund C., South Chicago, Ill. Tire-protector. No. 996,247; June 27; Sp. p. 4715; Gaz. vol. 167; p. 839.
Hoepfner, Karl, Alma, Mich. Combined metal saw and trimmer. No. 1,007,355; Oct. 31; Sp. p. 6158; Gaz. vol. 171; p. 1123.
Hoerlein, Heinrich. (See Dressel, Kothe, and Hoerlein.)
Hoerlein, Heinrich. (See Kothe, Dressel, and Hoerlein.)
Hoerlein, Heinrich, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Acyl derivative of morphin. No. 994,465; June 6; Sp. p. 740; Gaz. vol. 167; p. 127.
Hoerner, George M., Maple Rapids, Mich. Drill and tool oiler and bracket. No. 1,001,270; Aug. 22; Sp. p. 4449; Gaz. vol. 169; p. 808.
Hoerr, Louis A., St. Louis, Mo. Brake-rod jaw. No. 983,901; Feb. 14; Sp. p. 1414; Gaz. vol. 163; p. 250.
Hoerr, Louis A., St. Louis, Mo. Brake-rod jaw. No. 983,996; Feb. 14; Sp. p. 1637; Gaz. vol. 163; p. 282.
Hoeschen, Henry A., Omaha, Nebr. Motor. No. 999,562; Aug. 1; Sp. p. 734; Gaz. vol. 169; p. 126.
Hoey, Bernard. (See Bailey and Hoey.)
Hoey, John, San Francisco, Cal. Box-seat, box-couch, and the like. No. 1,006,553; Oct. 24; Sp. p. 4426; Gaz. vol. 171; p. 790.
Hoey, John J., Providence, R. I. Cloth-clamp for textile machinery. No. 999,223; Aug. 1; Sp. p. 63; Gaz. vol. 169; p. 13.
Hoey, Robert W., Philadelphia, Pa. Running-gear for children's carriages. No. 993,066; May 23; Sp. p. 4797; Gaz. vol. 166; p. 872.
Hoey, William, Grand Rapids, Mich. Metallic piston-rod packing. No. 1,007,283; Oct. 31; Sp. p. 6017; Gaz. vol. 171; p. 1098.
Hoey, William, Grand Rapids, Mich. Metallic piston-rod packing. No. 1,008,644; Nov. 14; Sp. p. 2315; Gaz. vol. 172; p. 391.
Hof, David C., Nora Springs, Iowa. Washing-machine. No. 998,901; July 25; Sp. p. 5039; Gaz. vol. 168; p. 905.
Hofacker, Anton, Newark, N. J. Sleigh attachment for vehicles. No. 1,005,215; Oct. 10; Sp. p. 1379; Gaz. vol. 171; p. 254.
Hofe, Julius vom, New York, N. Y. Fishing-reel. No. 987,628; Mar. 21; Sp. p. 3914; Gaz. vol. 164; p. 697.
Hofe, Julius vom, New York, N. Y. Fishing-reel. No. 987,676; Mar. 21; Sp. p. 4045; Gaz. vol. 164; p. 716.
Hofer, Louis, Pittsburg, Pa. Cuspidor. No. 988,709; Apr. 4; Sp. p. 914; Gaz. vol. 165; p. 144.
Hoff, Carlton L., assignor to Standard Chain Company, York, Pa. Machine for electrically welding chain-links. No. 1,001,271; Aug. 22; Sp. p. 4451; Gaz. vol. 169; p. 809.
Hoff, Charles, assignor of one-half to F. Hofmann, Cincinnati, Ohio. Gas-burner. No. 981,855; Jan. 17; Sp. p. 3745; Gaz. vol. 162; p. 633.
Hoff, Clarence E., Rocklake, N. D. Grain-distributer. No. 993,167; May 23; Sp. p. 5015; Gaz. vol. 166; p. 905.
Hoff, Eva. (See Woodworth, Outwater, and Hoff.)
Hoff, Hubert, assignor to Eisenhutten-Actien-Verein Düdelingen, Düdelingen, Luxemburg. Electric furnace. No. 984,371; Feb. 14; Sp. p. 2421; Gaz. vol. 163; p. 409.
Hoff, Louis R., Paterson, N. J., assignor, by mesne assignments, to The Asbestos Brake Company. Asbestos brake-band. No. 997,818; July 11; Sp. p. 2613; Gaz. vol. 168; p. 448.
Hoff, Louis R., Paterson, N. J., assignor, by mesne assignments, to The Asbestos Brake Company. Asbestos brake-band. No. 1,012,356; Dec. 19; Sp. p. 4392; Gaz. vol. 173; p. 752.
Hoff, Max F. vom, assignor to Felten & Guilleaume-Lahmeyerwerke Actien-Gesellschaft, Frankfort-on-the-Main, Germany. Transporting mechanism. No. 993,684; May 30; Sp. p. 6149; Gaz. vol. 166; p. 1112.
Hoffer, Fred C., Los Angeles, Cal. Spring-seat attachment. No. 1,006,658; Oct. 24; Sp. p. 4629; Gaz. vol. 171; p. 826.
Hoffer, John, Baxter, W. Va. Safety-stop for elevators. No. 1,005,837; Oct. 17; Sp. p. 2776; Gaz. vol. 171; p. 505.
Hoffer, John P., St. Louis, Mo. Resilient trolley-guard. No. 1,003,906; Sept. 19; Sp. p. 3711; Gaz. vol. 170; p. 661.
Hoffer, Samuel, Haigler, Nebr. Windmill. No. 988,098; Mar. 28; Sp. p. 5012; Gaz. vol. 164; p. 889.
Höffler, Karl, Neuerburg, Germany. Door for ovens. No. 1,000,910; Aug. 15; Sp. p. 3642; Gaz. vol. 169; p. 654.
Hoffman, Adolph, Columbus, Ohio. Couch-hammock. No. 1,011,789; Dec. 12; Sp. p. 3130; Gaz. vol. 173; p. 522.
Hoffman, Charles F., Lansing, assignor of one-half to E. E. Stinchcomb, Marshall, Mich. Ash-sifting shovel. No. 1,007,566; Oct. 31; Sp. p. 6632; Gaz. vol. 171; p. 1195.
Hoffman, Clarence L., Detroit, Mich. Lock for lamps. No. 1,005,216; Oct. 10; Sp. p. 1381; Gaz. vol. 171; p. 254.
Hoffman, Clarence L., Detroit, Mich. Alarm for boats. No. 1,012,852; Dec. 26; Sp. p. 5469; Gaz. vol. 173; p. 968.
Hoffman, David S., assignor of twenty one-hundredths to L. Wolf, New York, N. Y. Safety-pocket. No. 1,011,433; Dec. 12; Sp. p. 2314; Gaz. vol. 173; p. 395.
Hoffman, Edmund, *et al.* (See Wierth, Oscar F., assignor.)
Hoffman, Edward, assignor to The W. S. Tyler Company, Cleveland, Ohio. Woven-wire fabric. No. 986,569; Mar. 14; Sp. p. 1726; Gaz. vol. 164; p. 306.
Hoffman, George. (See Müller, Frank X., assignor.)
Hoffman, George A., Maeystown, Ill. Coupling pole and socket. No. 1,000,171; Aug. 8; Sp. p. 2026; Gaz. vol. 169; p. 363.
Hoffman, George D., assignor to Norwall Manufacturing Company, Chicago, Ill. Valve. No. 992,195; May 16; Sp. p. 2890; Gaz. vol. 166; p. 538.
Hoffman, George D., Western Springs, assignor to American Radiator Company, Chicago, Ill. Valve. No. 1,007,696; Nov. 7; Sp. p. 95; Gaz. vol. 172; p. 15.
Hoffman, Israel, New York, N. Y. Convertible chair and table. No. 1,002,694; Sept. 5; Sp. p. 1132; Gaz. vol. 170; p. 171.
Hoffman, John A., San Francisco, Cal. Aerial machine. No. 995,004; June 13; Sp. p. 2003; Gaz. vol. 167; p. 351.
Hoffman, John A., Lofty, Pa. Automatic switch-stand. No. 1,010,762; Dec. 5; Sp. p. 819; Gaz. vol. 173; p. 127.
Hoffman, John J., New Kensington, assignor to P. H. Murphy, Pittsburg, Pa. Car-roof construction. No. 993,600; May 30; Sp. p. 5944; Gaz. vol. 166; p. 1083.
Hoffman, John J., New Kensington, assignor to P. H. Murphy, Pittsburg, Pa. Metallic car-roof construction. No. 993,601; May 30; Sp. p. 5945; Gaz. vol. 166; p. 1083.
Hoffman, John J., New Kensington, assignor to P. H. Murphy, Pittsburg, Pa. Trussed-beam construction. No. 996,584; June 27; Sp. p. 5452; Gaz. vol. 167; p. 953.
Hoffman, John J., St. Louis, Mo., assignor to P. H. Murphy, Pittsburg, Pa. Car-roof. No. 999,166; July 25; Sp. p. 5589; Gaz. vol. 168; p. 994.
Hoffman, John W., and H. M. Rogers, Lansing, Mich. Elements for electric rheostats. No. 1,012,549; Dec. 19; Sp. p. 4764; Gaz. vol. 173; p. 817.
Hoffman, Joseph. (See Baskin, Hoffman, and Master.)
Hoffman-La Roche and Company, F. (See Arnaud and Posternak, assignors.)
Hoffman Patents, The. (See Hoffman, William M., assignor.)
Hoffman, Phillip. (See Merryman, William F., assignor.)
Hoffman, Rudolph, Battle Creek, Mich., assignor to American Stove Company, St. Louis, Mo. Hydrocarbon-burner. No. 987,067; Mar. 14; Sp. p. 2737; Gaz. vol. 164; p. 473.
Hoffman, William E., Sunbury, Pa. Fastening device. No. 1,003,907; Sept. 19; Sp. p. 3712; Gaz. vol. 170; p. 661.
Hoffman, William M., Buffalo, N. Y., assignor to The Hoffman Patents, Limited. Rotary engine. No. 985,804; Mar. 7; Sp. p. 72; Gaz. vol. 164; p. 16.
Hoffman, Zachariah S., Newark, assignor of one-half to W. T. Frey, Irvington, N. J. Carbureter. No. 1,010,051; Nov. 28; Sp. p. 5317; Gaz. vol. 172; p. 953.
Hoffmann, Benno, Frankfort-on-the-Main, Germany. Device for use in counting money, tokens, or the like. No. 992,963; May 23; Sp. p. 4590; Gaz. vol. 166; p. 837.
Hoffmann, Berthold, and R. Suchy, Griesheim-on-the-Main, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Purification of magnesium and magnesium alloys. No. 993,373; May 30; Sp. p. 5458; Gaz. vol. 166; p. 1005.

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Hoffmann & Billings Manufacturing Company. (See Hoffmann, Fred, assignor.)
Hoffmann & Billings Manufacturing Company. (See Hoffmann and Niedecken, assignors.)
Hoffmann, Daniel F., Seguin, Tex. Automatic railway-switch-operating mechanism. No. 999,999; Aug. 8; Sp. p. 1615; Gaz. vol. 169; p. 304.
Hoffmann, Fred, assignor to Hoffmann & Billings Manufacturing Company, Milwaukee, Wis. Non-scalding valve. No. 982,498; Jan. 24; Sp. p. 5132; Gaz. vol. 162; p. 885.
Hoffmann, Fred, and E. F. Niedecken, assignors to Hoffmann & Billings Manufacturing Company, Milwaukee, Wis. Basin-waste connection. No. 1,000,521; Aug. 15; Sp. p. 2795; Gaz. vol. 169; p. 515.
Hoffmann, Frederick H., Hoboken, N. J. Apparatus for stropping razor-blades. No. 982,722; Jan. 24; Sp. p. 5575; Gaz. vol. 162; p. 959.
Hoffmann-La Roche and Company, F. (See Haertel, Richard, assignor.)
Hoffmann, Louis J. (See Hughes and Hoffmann.)
Hoffmann Manufacturing Company, The. (See Schmidt, Otto A., assignor.)
Hoffmann, Simon, assignor to Locomotive Superheater Co., New York, N. Y. Damper for locomotive-superheaters. No. 1,011,197; Dec. 12; Sp. p. 1791; Gaz. vol. 173; p. 312.
Hoffmann, William G., assignor of one-half to F. O. Bratton, Mill Valley, Cal. Sight for firearms. No. 1,009,148; Nov. 21; Sp. p. 3369; Gaz. vol. 172; p. 596.
Hoffstrom, Otto, assignor to Belden Manufacturing Company, Chicago, Ill. Flexible conducting-cord. No. 988,099; Mar. 28; Sp. p. 5013; Gaz. vol. 164; p. 889.
Hofgren, Frank E., Brooklyn, N. Y. Bottle-crate. No. 994,397; June 6; Sp. p. 622; Gaz. vol. 167; p. 106.
Hofheimer, Arthur, York, Pa., assignor to Heany Fire-Proof Wire Company, New York, N. Y. Smoothing device. No. 997,295; July 11; Sp. p. 1480; Gaz. vol. 168; p. 270.
Höfle, Ernst W., Basel, Switzerland. Machine for making insulating-tubes. No. 1,008,149; Nov. 7; Sp. p. 1070; Gaz. vol. 172; p. 175.
Höfle, Julius, Budapest, Austria-Hungary. Automatic reversing starter. No. 989,847; Apr. 18; Sp. p. 3343; Gaz. vol. 165; p. 583.
Höfler, Karl, Hanover, Germany. Composition of matter. No. 1,008,336; Nov. 14; Sp. p. 1536; Gaz. vol. 172; p. 281.
Hofman, John, H. Bucklin, and D. E. Burr, assignors to John Hofman Co., Rochester, N. Y. Door for display-cabinets. No. 1,008,266; Nov. 7; Sp. p. 1331; Gaz. vol. 172; p. 218.
Hofmann, Clifford L., Glenrose, assignor of one-half to H. P. McEntee, Cincinnati, Ohio. Railway-car-moving device. No. 1,001,033; Aug. 22; Sp. p. 3973; Gaz. vol. 169; p. 730.
Hofmann, Frederick. (See Hoff, Charles, assignor.)
Hofmann, Fritz, and C. Coutelle, assignors to Fabenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing beta-methyladipic acid. No. 991,719; May 9; Sp. p. 1937; Gaz. vol. 166; p. 348.
Hofmann, Fritz, and C. Coutelle, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing beta-methyladipic acid. No. 991,720; May 9; Sp. p. 1938; Gaz. vol. 166; p. 348.
Hofmann, Fritz, and C. Coutelle, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing beta-methyltetramethylene-diamin. No. 991,721; May 9; Sp. p. 1938; Gaz. vol. 166; p. 348.
Hofmann, Fritz, and C. Coutelle, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing divinyl. No. 1,005,217; Oct. 10; Sp. p. 1383; Gaz. vol. 171; p. 255.
Hofmann, Fritz, and K. Meisenburg, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing beta-gamma-dimethylerythrene. No. 1,002,399; Sept. 5; Sp. p. 513; Gaz. vol. 170; p. 72.
Hofmann, Fritz, and K. Meisenburg, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing beta-gamma-dimethylerythrene. No. 1,002,400; Sept. 5; Sp. p. 513; Gaz. vol. 170; p. 72.
Hofmann, Fritz, and L. Tank, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing double olefins. No. 1,010,050; Nov. 28; Sp. p. 5316; Gaz. vol. 172; p. 953.
Hofmann, Fritz, and L. Tank, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Producing erythrene. No. 1,010,405; Nov. 28; Sp. p. 6041; Gaz. vol. 172; p. 1070.
Hofmann, Georg F., Munich, Germany. Pyrophoric metal alloy. No. 1,006,849; Oct. 24; Sp. p. 5061; Gaz. vol. 171; p. 892.
Hofmann, Vaclav F. (See Nelson and Lang, assignors.)
Hofstetter, Samuel. (See Winters and Hofstetter.)
Hogan, Denis F., St. Paul, Minn. Excavating-machine. No. 1,003,458; Sept. 19; Sp. p. 2768; Gaz. vol. 170; p. 507.
Hogan, James E. (See Stirling, William H., assignor.)
Hogan, John, Boston, Mass. Fireman's belt. No. 1,010,763; Dec. 5; Sp. p. 822; Gaz. vol. 173; p. 128.
Hogan, John T., Denver, Colo. Amalgamator and separator. No. 987,677; Mar. 21; Sp. p. 4047; Gaz. vol. 164; p. 716.
Hogarth, Henry C., Tilsonburg, Ontario, Canada. Well-casing. No. 997,191; July 4; Sp. p. 1248; Gaz. vol. 168; p. 203.
Hoge, Joseph F. D., New York, N. Y., assignor to American District Telegraph Company. Alternating-current relay. No. 1,006,089; Oct. 17; Sp. p. 3323; Gaz. vol. 171; p. 593.
Hoge, Joseph F. D., New York, N. Y., assignor to American District Telegraph Company. Alternating-current relay. No. 1,006,090; Oct. 17; Sp. p. 3327; Gaz. vol. 171; p. 594.
Hoge, Joseph F. D., New York, N. Y., assignor to American District Telegraph Company. Alternating-current relay. No. 1,006,091; Oct. 17; Sp. p. 3331; Gaz. vol. 171; p. 594.
Hoge, Max, P. C. Riebe, and J. W. Pitt, Chicago, Ill.; said Riebe assignor to said Hoge and Pitt. Printer's plate-hook. No. 989,153; Apr. 11; Sp. p. 1817; Gaz. vol. 165; p. 315.
Hogen, Charles C., Cleveland, Ohio. Coupling. No. 1,012,255; Dec. 19; Sp. p. 4181; Gaz. vol. 173; p. 717.
Högfeldt, Richard, Dusseldorf, Germany. Machine for making pasteboard boxes. No. 996,856; July 4; Sp. p. 533; Gaz. vol. 168; p. 87.
Hogg, Herman B. (See Kline, John B., assignor.)
Hogland, Fredrik, Alberni, British Columbia, Canada. Hand-logger's winch. No. 999,369; Aug. 1; Sp. p. 352; Gaz. vol. 169; p. 62.
Hogle, Burton. (See Nicholson, Wesley S., assignor.)
Hoglund, Erick P., Portland, Oreg. Mortising-tool. No. 991,062; May 2; Sp. p. 478; Gaz. vol. 166; p. 83.
Hoglund, Gustav E., assignor to W. N. Selig, Chicago, Ill. Location-indicating device. No. 990,739; Apr. 25; Sp. p. 5330; Gaz. vol. 165; p. 920.
Hogue, William J. (See Clay and Hogue.)
Hohenstein, Charles H. von, San Antonio, Tex. System of irrigation. No. 986,003; Mar. 7; Sp. p. 541; Gaz. vol. 164; p. 86.
Hohlfeld, Herman L., Philadelphia, Pa. Hammock-couch. No. 996,644; July 4; Sp. p. 105; Gaz. vol. 168; p. 19.
Hohmann, Charles, Newark, N. J. Gas-heater. No. 990,268; Apr. 25; Sp. p. 4245; Gaz. vol. 165; p. 757.
Hohmann, Edmund, Stettin, assignor to Ofenbau-Gesellschaft, m. b. H., Munich, Germany. Door for gas-producing furnaces and the like. No. 980,261; Jan. 3; Sp. p. 153; Gaz. vol. 162; p. 30.
Hohmann, Edmund, Stettin, assignor to Ofenbau-Gesellschaft M. B. H., Munich, Germany. Gasometer. No. 995,601; June 20; Sp. p. 3302; Gaz. vol. 167; p. 581.
Hohmann, Richard K., San Diego, Cal. Bobbin-carrier. No. 1,009,749; Nov. 28; Sp. p. 4694; Gaz. vol. 172; p. 851.
Hohmann, Richard K., San Diego, assignor of one-fourth to E. J. Bernhard, Los Angeles, Cal. Rotary sewing-machine. No. 983,902; Feb. 14; Sp. p. 1415; Gaz. vol. 163; p. 251.
Hohmann, Richard K., assignor of one-half to P. M. Johnson, San Diego, Cal. Revolving-hook sewing-machine. No. 1,000,265; Aug. 8; Sp. p. 2219; Gaz. vol. 169; p. 395.
Hohmann, Richard K., assignor of one-half to H. Scudder, San Diego, Cal. Rotary sewing-machine. No. 1,007,106; Oct. 31; Sp. p. 5624; Gaz. vol. 171; p. 1033.
Höhme, Otto, Radebeul, near Dresden, Germany. Dynamo-brush holder. No. 983,230; Jan. 31; Sp. p. 6675; Gaz. vol. 162; p. 1159.
Hohnbach, Robert, Joliet, Ill. Grain-sprouter. No. 989,011; Apr. 11; Sp. p. 1513; Gaz. vol. 165; p. 266.
Hohner, Matthias, Trossigen, Germany. Mouth-harmonica. No. 1,009,903; Nov. 28; Sp. p. 4999; Gaz. vol. 172; p. 902.
Hohner, Matthias, Trossigen, Germany. Mouth-harmonica. No. 1,009,904; Nov. 28; Sp. p. 4999; Gaz. vol. 172; p. 903.
Hohnhorst, William J., assignor of one-third to T. B. Mathews and one-third to J. C. Brown, Covington, Ky. Composite rail-tie. No. 992,130; May 9; Sp. p. 2736; Gaz. vol. 166; p. 484.
Hoiland, Edvard, Auckland, New Zealand. Internal-combustion engine. No. 996,339; June 27; Sp. p. 4945; Gaz. vol. 167; p. 870.
Hoke, Harry A., Altoona, Pa. Locomotive ash-pan. No. 980,870; Jan. 3; Sp. p. 1484; Gaz. vol. 162; p. 238.
Hoke, Jacob F., Jr. (See Talbert, Shaw, Holcomb, and Hoke.)
Holaway, Charles E., Chester, England. Spring-frame for motor and other cycles. No. 1,003,908; Sept. 19; Sp. p. 3713; Gaz. vol. 170; p. 661.
Holberg, Nels F., Stillwater, Minn. Combined stove and heating-drum. No. 996,645; July 4; Sp. p. 107; Gaz. vol. 168; p. 19.
Holbert, William S., *et al.* (See Ernst, Ethan A., assignor.)
Holbrook, Edward M., St. Louis, Mo. Shoe-last. No. 999,788; Aug. 8; Sp. p. 1177; Gaz. vol. 169; p. 232.
Holbrook, Harry R., Attleboro, Mass. Tire-casing. No. 983,231; Jan. 31; Sp. p. 6677; Gaz. vol. 162; p. 1159.

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Holbrook, John K., Newark, N. J., assignor to George Murphy, Inc., New York, N. Y. Foreground ray-screen. No. 988,710; Apr. 4; Sp. p. 915; Gaz. vol. 165; p. 145.
Holbrook, Robert A. (See Brown and Holbrook.)
Holcomb, Clinton J., Fresno, Cal. Car-wheel. No. 982,179; Jan. 17; Sp. p. 4434; Gaz. vol. 162; p. 743.
Holcomb, Hilary N., Elkin, N. C. Refrigerator. No. 1,001,524; Aug. 22; Sp. p. 4949; Gaz. vol. 169; p. 894.
Holcomb, James I. (See Talbert, Shaw, Holcomb, and Hoke.)
Holcombe, James S., Nashville, Ark. Broom. No. 999,307; Aug. 1; Sp. p. 218; Gaz. vol. 169; p. 41.
Holdaway, Hall H. (See Holdaway, William S. and H. H.)
Holdaway, John M., Provo, Utah. Sewer-cleaner. No. 986,462; Mar. 14; Sp. p. 1494; Gaz. vol. 164; p. 269.
Holdaway, William S. and H. H., Provo, Utah, assignors, by mesne assignments, to Detroit-Delaware Manufacturing Company, Detroit, Mich. Button-sewing attachment. No. 991,153; May 2; Sp. p. 695; Gaz. vol. 166; p. 118.
Holden, Charles L., Indianapolis, Ind. Water-heater. No. 1,010,764; Dec. 5; Sp. p. 823; Gaz. vol. 173; p. 128.
Holden, Charles R., Chicago, Ill. Railway-road-bed construction. No. 987,988; Mar. 28; Sp. p. 4776; Gaz. vol. 164; p. 852.
Holden, George, Flushing, assignor to Greenpoint Metallic Bed Company, Brooklyn, N. Y. Locking device for use in the manufacture of metal beds and other articles. No. 1,010,427; Dec. 5; Sp. p. 50; Gaz. vol. 173; p. 11.
Holden, Harry H., Los Angeles, Cal. Gearing. No. 1,008,150; Nov. 7; Sp. p. 1071; Gaz. vol. 172; p. 175.
Holden, Ivan H. (See Ingraham, Charles B., assignor.)
Holden, Norman J., Montreal, Quebec, Canada. Car-fender. No. 1,010,428; Dec. 5; Sp. p. 53; Gaz. vol. 173; p. 11.
Holden, Walter A., Ansonia, assignor to The Robert N. Bassett Company, Shelton, Conn. Buckle. No. 994,515; June 6; Sp. p. 849; Gaz. vol. 167; p. 143.
Holden, Walter A., Ansonia, assignor to The Robert N. Bassett Company, Shelton, Conn. Buckle for webbing. No. 994,843; June 13; Sp. p. 1650; Gaz. vol. 167; p. 296.
Holden, Walter A., Ansonia, assignor to The Robert N. Bassett Company, Shelton, Conn. Buckle. No. 996,248; June 27; Sp. p. 4716; Gaz. vol. 167; p. 839.
Holden, William, Cleveland, Ohio. Floor-scraper. No. 986,004; Mar. 7; Sp. p. 542; Gaz. vol. 164; p. 86.
Holden, William C., Scarboro-on-the-Hudson, N. Y. Mold for making concrete arch-blocks. No. 1,002,583; Sept. 5; Sp. p. 898; Gaz. vol. 170; p. 133.
Holden, William M., and E. M. Tobin, Barre, Vt. Dust-preventer for stoneworking-tools. No. 1,003,260; Sept. 12; Sp. p. 2372; Gaz. vol. 170; p. 407.
Holder, Andrew T., Waco, Tex. Cigar-box clip. No. 1,009,067; Nov. 21; Sp. p. 3216; Gaz. vol. 172; p. 570.
Holder-Perkins Company. (See Lucke, William F., assignor.)
Holder-Perkins Company. (See Perkins, Franklin J., assignor.)
Holder, William A., South Brownsville, Pa. Limb-support. No. 1,007,567; Oct. 31; Sp. p. 6634; Gaz. vol. 171; p. 1196.
Holderbaum, John I., Somerset, Pa. Ice-creeper. No. 992,773; May 23; Sp. p. 4150; Gaz. vol. 166; p. 768.
Holdridge, Franklin L., Tidioute, Pa. Milk-can lock. No. 1,006,944; Oct. 24; Sp. p. 5263; Gaz. vol. 171; p. 925.
Holdridge, Orry H., Tidioute, Pa. Folding box. No. 999,224; Aug. 1; Sp. p. 65; Gaz. vol. 169; p. 13.
Holdsworth, George, Conesville, Ohio. Fruit-gatherer. No. 1,009,246; Nov. 21; Sp. p. 3622; Gaz. vol. 172; p. 632.
Holdsworth, Joshua, North Providence, R. I. Oil-cup attachment. No. 1,000,810; Aug. 15; Sp. p. 3442; Gaz. vol. 169; p. 619.
Holdt, George H. (See Dexter and Holdt.)
Holladay, Walter L., and R. L. Stewart, Williamsville, Mo. Wire-clamp. No. 981,562; Jan. 10; Sp. p. 3121; Gaz. vol. 162; p. 509.
Holland, Charles E., New York, N. Y., assignor to The Defender Manufacturing Company, Cincinnati, Ohio. Protector for checks. No. 998,177; July 18; Sp. p. 3413; Gaz. vol. 168; p. 616.
Holland, Charles F., Elko, Nev. Ship-cleaning device. No. 991,308; May 2; Sp. p. 1042; Gaz. vol. 166; p. 173.
Holland, Charles P., New York, N. Y. Fireless cooker. No. 1,008,468; Nov. 14; Sp. p. 1920; Gaz. vol. 172; p. 328.
Holland, Curtis, Butte, assignor to C. W. Blair, Missoula, Mont. Indicator for type-writing machines. No. 983,860; Feb. 7; Sp. p. 1298; Gaz. vol. 163; p. 207.
Holland, Frank, Pittsburg, Pa. Suit-case. No. 988,937; Apr. 4; Sp. p. 1356; Gaz. vol. 165; p. 217.
Holland, Leicester B., Philadelphia, Pa. Aeroplane. No. 1,003,459; Sept. 19; Sp. p. 2772; Gaz. vol. 170; p. 508.
Holland, Leicester B., Philadelphia, Pa. Aeroplane. No. 1,003,605; Sept. 19; Sp. p. 3102; Gaz. vol. 170; p. 559.
Holland-Letz, George and J., Crown Point, Ind. Grinding-mill. No. 1,006,554; Oct. 24; Sp. p. 4428; Gaz. vol. 171; p. 790.
Holland-Letz, John. (See Holland-Letz, George and J.)
Holland, Newman H., assignor to Western Electric Company, Chicago, Ill. Registering system and apparatus. No. 987,364; Mar. 21; Sp. p. 3384; Gaz. vol. 164; p. 608.
Holland, Richard. (See Swartz and Holland.)
Hollander, Emil E., and C. M. Peterson, Arlington, N. J. Oscillating fan. No. 1,005,429; Oct. 10; Sp. p. 1873; Gaz. vol. 171; p. 331.
Hollander, John, Evansville, Ind. Dough-raising machine. No. 992,501; May 16; Sp. p. 3595; Gaz. vol. 166; p. 645.
Hollands, John C., Erie, Pa. Tea or coffee pot. No. 985,176; Feb. 28; Sp. p. 4153; Gaz. vol. 163; p. 755.
Hollar, William H., Philadelphia, Pa. Vault. No. 1,007,568; Oct. 31; Sp. p. 6635; Gaz. vol. 171; p. 1196.
Hollaway, Edgar A. (See Hollaway, George W., assignor.)
Holleman, Frederik A., The Hague, Netherlands. Inhaling apparatus. No. 999,451; Aug. 1; Sp. p. 511; Gaz. vol. 169; p. 89.
Hollenbeck, Jacob P., Frederick, Okla. Oil-gas burner. No. 1,003,109; Sept. 12; Sp. p. 2046; Gaz. vol. 170; p. 352.
Hollensbe, Ira J., Greensburg, Ind. Water-cooling apparatus. No. 1,010,495; Dec. 5; Sp. p. 211; Gaz. vol. 173; p. 35.
Holler, Joseph. (See Martel, Adelard F., assignor.)
Hollerith, Herman, Garrett Park, Md., assignor to The Tabulating Machine Company. Tabulating apparatus. No. 998,095; July 18; Sp. p. 3256; Gaz. vol. 168; p. 587.
Holley, Julian R., assignor to The Bristol Brass Company, Bristol, Conn. Percolator. No. 988,268; Mar. 28; Sp. p. 5330; Gaz. vol. 164; p. 943.
Holley, Julian R., assignor to The Bristol Brass Company, Bristol, Conn. Percolator. No. 994,398; June 6; Sp. p. 623; Gaz. vol. 167; p. 106.
Holley, Julian R., assignor to The Bristol Brass Company, Bristol, Conn. Percolator. No. 1,008,267; Nov. 7; Sp. p. 1334; Gaz. vol. 172; p. 218.
Holliday, Lancelot B., Beckley, E. J. Weidensall and G. R. Krebs, Wickham, W. Va. Electric steam-generator or humidifier. No. 990,875; May 2; Sp. p. 106; Gaz. vol. 166; p. 19.
Holliday, Robert L., New Brighton, N. Y. Can-soldering tool. No. 1,012,078; Dec. 19; Sp. p. 3792; Gaz. vol. 173; p. 657.
Holliday, Robert L., New Brighton, N. Y. Paint-screening apparatus. No. 1,012,134; Dec. 19; Sp. p. 3919; Gaz. vol. 173; p. 677.
Hollifield, Horatio B., Washington, D. C. Practice apparatus for small-arms. No. 1,008,337; Nov. 14; Sp. p. 1536; Gaz. vol. 172; p. 281.
Hollinger, Andrew, Canton, Ohio. Railway-crossing. No. 1,004,261; Sept. 26; Sp. p. 4594; Gaz. vol. 170; p. 812.
Hollinger, Isaac K., Greenville, Ohio. Fence-machine. No. 990,653; Apr. 25; Sp. p. 5134; Gaz. vol. 165; p. 891.
Hollingshead, Alice E., Minneapolis, Minn. Portable smoothing-iron. No. 1,004,571; Oct. 3; Sp. p. 51; Gaz. vol. 171; p. 10.
Hollingshead, William R., Buffalo, N. Y. Polishing-mitten. No. 981,192; Jan. 10; Sp. p. 2311; Gaz. vol. 162; p. 381.
Hollingsworth, I. M. (See Robinson, David F., assignor.)
Hollingsworth, Joseph C., Dallas, Tex. Cotton-gin. No. 1,006,092; Oct. 17; Sp. p. 3333; Gaz. vol. 171; p. 595.
Hollingsworth, Samuel, Plainfield, N. J., assignor to American Sales Book Company, Elmira, N. Y. Numbering-machine. No. 984,372; Feb. 14; Sp. p. 2423; Gaz. vol. 163; p. 410.
Hollingsworth and Vose Company, The. (See Sheehan, Owen, assignor.)
Hollingworth, Leonard J., and J. Reuter, Hutchinson, Kans. Roller-bearing. No. 987,138; Mar. 21; Sp. p. 2882; Gaz. vol. 164; p. 529.
Hollins, Frederick E., Winchester, assignor of one-half to G. B. Dodge, Winthrop, Mass. Drainage-tube for embalmers' use. No. 998,339; July 18; Sp. p. 3807; Gaz. vol. 168; p. 677.
Hollinshed, George, White Plains, N. Y. Ash-sifting shovel. No. 1,007,202; Oct. 31; Sp. p. 5854; Gaz. vol. 171; p. 1069.
Hollis, Henry L., Winnetka, Ill. Railway-tie. No. 988,875; Apr. 4; Sp. p. 1231; Gaz. vol. 165; p. 197.
Hollis, Miles S., New York, N. Y. Stop-cock. No. 992,502; May 16; Sp. p. 3596; Gaz. vol. 166; p. 645.
Hollis, Moses, Vernon, Ala. Combined plow and harrow. No. 980,262; Jan. 3; Sp. p. 155; Gaz. vol. 162; p. 30.
Hollister, George H., assignor to Lewis & Gray Company, Chicago, Ill. Burial-casket. No. 1,005,547; Oct. 10; Sp. p. 2121; Gaz. vol. 171; p. 373.
Hollister, George K., Jr., New York, N. Y., assignor of one-half to G. C. Pierce, Portland, Oreg. Mineral briquet. No. 990,049; Apr. 18; Sp. p. 3767; Gaz. vol. 165; p. 651.
Holliwell, Charles, *et al.* (See Pearce, Billington, Holliwell, and Burgess.)
Holloway, George, Sandusky, Ohio. Internal-combustion engine. No. 1,001,404; Aug. 22; Sp. p. 4748; Gaz. vol. 169; p. 856.
Holloway, George W., assignor of one-half to E. A. Hollaway, Gilroy, Cal. Vehicle spring connection. No. 1,007,201; Oct. 31; Sp. p. 5852; Gaz. vol. 171; p. 1068.
Hollowell, Fred, Orleans, Ind. Manure-loader. No. 989,262; Apr. 11; Sp. p. 2057; Gaz. vol. 165; p. 351.
Hollowell, Fred, Orleans, Ind. Gravel loader and excavator. No. 989,263; Apr. 11; Sp. p. 2059; Gaz. vol. 165; p. 351.

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Hollstein, Paul G., Hoboken, N. J., assignor to J. M. Lehmann Co., New York, N. Y. Agitator. No. 1,011,621; Dec. 12; Sp. p. 2795; Gaz. vol. 173; p. 465.
Holly, John T., Wabbaseka, Ark. Vehicle-hub. No. 1,008,268; Nov. 7; Sp. p. 1336; Gaz. vol. 172; p. 218.
Holm, Andrew, Chicago, Ill. Sifter or the like. No. 1,003,460; Sept. 19; Sp. p. 2775; Gaz. vol. 170; p. 508.
Holm, Anton, Passaic, N. J., assignor to H. Richardson, New York, N. Y. Atmospheric engine. No. 991,989; May 9; Sp. p. 2460; Gaz. vol. 166; p. 437.
Holm, Axel, Camden, N. J. Concrete floating body. No. 991,780; May 9; Sp. p. 2031; Gaz. vol. 166; p. 366.
Holman & Company, A. J. (See Holman, William K., assignor.)
Holman, Maggie P. (See Rote, Charles V., assignor.)
Holman, Stephen A., Bakersfield, Cal. Plate or pan lifter. No. 983,054; Jan. 31; Sp. p. 6338; Gaz. vol. 162; p. 1101.
Holman, William K., assignor to A. J. Holman & Company, Philadelphia, Pa. Filing-case. No. 982,062; Jan. 17; Sp. p. 4221; Gaz. vol. 162; p. 703.
Holmberg, Alfred E., Chatham, Minn. Sewing-machine or attachment for same. No. 984,562; Feb. 21; Sp. p. 2857; Gaz. vol. 163; p. 508.
Holmberg, Per, Glencoe, assignor of one-half to A. G. Leonard, Chicago, Ill. Concrete fence. No. 983,367; Feb. 7; Sp. p. 241; Gaz. vol. 163; p. 41.
Holmén, Axel R., Columbus, Ohio. Apparatus for softening water. No. 991,990; May 9; Sp. p. 2463; Gaz. vol. 166; p. 438.
Holmén, Axel R., Columbus, Ohio. Meter-motor. No. 997,500; July 11; Sp. p. 1863; Gaz. vol. 168; p. 336.
Holmen, Gustav, Tompkinsville, N. Y. Pressure-regulating valve. No. 990,557; Apr. 25; Sp. p. 4926; Gaz. vol. 165; p. 859.
Holmes, Alfred E., Chicago, Ill. Safety-can. No. 1,011,198; Dec. 12; Sp. p. 1792; Gaz. vol. 173; p. 313.
Holmes, Buren. (See Jones and Holmes.)
Holmes, Charles E., Lynn, Mass., assignor to General Electric Company. Measuring instrument. No. 994,923; June 13; Sp. p. 1838; Gaz. vol. 167; p. 323.
Holmes, Edward B. (See Beugler, Edwin F., assignor.)
Holmes, Edward H., Beaver, Pa. Annealing-furnace. No. 995,460; June 20; Sp. p. 2972; Gaz. vol. 167; p. 530.
Holmes, Elbridge R., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Narrow-ware loom. No. 993,685; May 30; Sp. p. 6151; Gaz. vol. 166; p. 1113.
Holmes, Eugene C., assignor of one-half to L. M. Carmical, Jonesville, Va. Rolling parallel ruler. No. 1,005,218; Oct. 10; Sp. p. 1383; Gaz. vol. 171; p. 255.
Holmes, Henry J., Clarence, Mich. Lantern-holder for vehicles. No. 984,563; Feb. 21; Sp. p. 2859; Gaz. vol. 163; p. 509.
Holmes, Hiram, Clarence township, Calhoun county, Mich. Evaporating-pan. No. 1,012,550; Dec. 19; Sp. p. 4765; Gaz. vol. 173; p. 818.
Holmes, Horace S. (See Richmond, Holmes, and Peck.)
Holmes, Howard B., Park Ridge, and E. B. Craft, assignors to Western Electric Company, Chicago, Ill. Automatic-exchange selector. No. 980,417; Jan. 3; Sp. p. 492; Gaz. vol. 162; p. 84.
Holmes, James W., *et al.* (See Spaulding, Franklin, assignor.)
Holmes, John A., assignor to Ward-Mackey Co., Pittsburg, Pa. Removable hopper for dough-pressing machines. No. 997,554; July 11; Sp. p. 1980; Gaz. vol. 168; p. 354.
Holmes, John D., Pasadena, Cal., assignor to The Dean Electric Company, Elyria, Ohio. Central telephone system. No. 988,711; Apr. 4; Sp. p. 916; Gaz. vol. 165; p. 145.
Holmes, John P., Oak Valley, Kans. Propeller-wheel. No. 997,819; July 11; Sp. p. 2615; Gaz. vol. 168; p. 449.
Holmes, John W. (See Thompson, William E., assignor.)
Holmes, Lawrence, Los Angeles, Cal. Case for disappearing beds. No. 986,633; Mar. 14; Sp. p. 1857; Gaz. vol. 164; p. 329.
Holmes, Robert E. L., assignor to The American Well Works, Aurora, Ill. Pump. No. 990,359; Apr. 25; Sp. p. 4454; Gaz. vol. 165; p. 788.
Holmes, Watson M. (See Shaw and Holmes.)
Holmes, William H. (See Conry, William H., assignor.)
Holmes, William H., Proctor, Vt. Hoop-clamp. No. 1,001,848; Aug. 29; Sp. p. 5661; Gaz. vol. 169; p. 1036.
Holmgreen, Eddie, Rockford, Ill. Fishing device. No. 993,374; May 30; Sp. p. 5460; Gaz. vol. 166; p. 1005.
Holmgren, Israel F., Stockholm, Sweden. Quantitative analysis of solutions. No. 1,012,639; Dec. 26; Sp. p. 4974; Gaz. vol. 173; p. 894.
Holmquist, August, Hoopeston, Ill. Screw-driver. No. 1,010,631; Dec. 5; Sp. p. 520; Gaz. vol. 173; p. 81.
Holmquist, John O., Chicago, Ill. Self-squaring curtain-stretcher. No. 992,717; May 16; Sp. p. 4028; Gaz. vol. 166; p. 719.
Holmquist, John O., Chicago, Ill. Attaching device for curtain-stretchers. No. 997,820; July 11; Sp. p. 2616; Gaz. vol. 168; p. 449.
Holmquist, John O., Chicago, Ill. Curtain-stretcher. No. 1,009,517; Nov. 21; Sp. p. 4231; Gaz. vol. 172; p. 729.
Holmquist, Peter O., Chicago, Ill. Curtain-stretcher. No. 991,781; May 9; Sp. p. 2033; Gaz. vol. 166; p. 366.
Holmström, Johan G. (See Egnér and Holmström.)
Holroyd, Frank, Philadelphia, Pa. Purse. No. 994,399; June 6; Sp. p. 625; Gaz. vol. 167; p. 107.
Holroyd, Thomas H., Richmond, England. Elastic-fluid turbine. No. 1,008,824; Nov. 14; Sp. p. 2690; Gaz. vol. 172; p. 452.
Holroyd, Thomas H., Richmond, England. Apparatus for generating products of combustion. No. 1,008,825; Nov. 14; Sp. p. 2692; Gaz. vol. 172; p. 452.
Holroyd, Thomas H., Richmond, England. Explosion apparatus for generating and developing power. No. 1,008,912; Nov. 14; Sp. p. 2852; Gaz. vol. 172; p. 480.
Holsapple, Clinton D. (See Fornando, Alfred, assignor.)
Holsclaw, Wilford H., assignor to Brinly-Hardy Company, Louisville, Ky. Plow. No. 992,196; May 16; Sp. p. 2892; Gaz. vol. 166; p. 538.
Holsman, Henry K., Chicago, Ill. Gas-engine. No. 980,263; Jan. 3; Sp. p. 156; Gaz. vol. 162; p. 31.
Holsman, Henry K., assignor to The Independent Harvester Company, Plano, Ill. Valve. No. 995,005; June 13; Sp. p. 2005; Gaz. vol. 167; p. 351.
Holsman, Henry K., Chicago, Ill., assignor to Independent Harvester Company. Driving mechanism for automobiles. No. 998,002; July 18; Sp. p. 3032; Gaz. vol. 168; p. 554.
Holsman, Henry K., Chicago, Ill., assignor to Independent Harvester Company. Friction driving-chain. No. 1,007,569; Oct. 31; Sp. p. 6639; Gaz. vol. 171; p. 1196.
Holson, Albert B., Los Angeles, Cal. Balanced-propeller gear. No. 1,001,956; Aug. 29; Sp. p. 5921; Gaz. vol. 169; p. 1073.
Holsopple, Guy, Hollsopple, Pa. Railway mail-exchanger. No. 984,814; Feb. 21; Sp. p. 3391; Gaz. vol. 163; p. 598.
Holst, Fredrik A., Christiania, Norway. Shirt and detachable cuff therefor. No. 1,007,570; Oct. 31; Sp. p. 6640; Gaz. vol. 171; p. 1197.
Holst, Karl G., Hartford, Conn. Counter. No. 1,007,203; Oct. 31; Sp. p. 5855; Gaz. vol. 171; p. 1069.
Holste, Georg, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye. No. 1,012,853; Dec. 26; Sp. p. 5470; Gaz. vol. 173; p. 968.
Holstein, Adolph M., Syracuse, N. Y. Casket-handle. No. 993,996; May 30; Sp. p. 6777; Gaz. vol. 166; p. 1217.
Holstein, Edward A. (See MacCallan, Arthur T., assignor.)
Holstein & Kappert Maschinenfabrik "Phönix" G. m. b. H. (See Petersen, Adolf J., assignor.)
Holt, Albert J., Muskogee, Okla. Railway-rail joint. No. 986,005; Mar. 7; Sp. p. 543; Gaz. vol. 164; p. 86.
Holt, Benjamin, Albion, N. Y. Facing-machine. No. 1,009,905; Nov. 28; Sp. p. 5000; Gaz. vol. 172; p. 903.
Holt, Claude G. (See Davis and Holt.)
Holt, Claude G., assignor of one-half to A. A. Krammer, Kansas City, Mo. Self-measuring pump. No. 1,011,790; Dec. 12; Sp. p. 3131; Gaz. vol. 173; p. 523.
Holt, Frank, Chicago, Ill. Skull-cutter. No. 983,368; Feb. 7; Sp. p. 242; Gaz. vol. 163; p. 41.
Holt, Hans P., Grand Junction, Colo. Orchard-heater. No. 985,743; Feb. 28; Sp. p. 5415; Gaz. vol. 163; p. 949.
Holt, Harris B., Versailles, Ky. Strainer. No. 989,975; Apr. 18; Sp. p. 3615; Gaz. vol. 165; p. 626.
Holt, Harris B., Pittsburg, Pa., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Rotary motor. No. 994,400; June 6; Sp. p. 626; Gaz. vol. 167; p. 107.
Holt, Harris B., and C. A. Conn., Pittsburg, Pa., assignors, by mesne assignments, to The Lagonda Manufacturing Company, Springfield, Ohio. Motor. No. 994,401; June 6; Sp. p. 627; Gaz. vol. 167; p. 107.
Holt, Herbert. (See Seeley and Holt.)
Holt, Lafayette, Burlington, N. C. Rotary engine. No. 1,006,093; Oct. 17; Sp. p. 3335; Gaz. vol. 171; p. 595.
Holt, Laurence B., and A. B. Clayton, Laconia, N. H. Ignition-timer for internal-combustion engines. No. 984,564; Feb. 21; Sp. p. 2860; Gaz. vol. 163; p. 509.
Holt, Pliny E., Stockton, Cal. Plowing-machine. No. 985,805; Mar. 7; Sp. p. 75; Gaz. vol. 164; p. 16.
Holt, Pliny E., Stockton, Cal. Road-roller. No. 986,290; Mar. 7; Sp. p. 1106; Gaz. vol. 164; p. 178.
Holt, Pliny E., Stockton, Cal. Traction-belt and supporting-rollers. No. 986,391; Mar. 7; Sp. p. 1339; Gaz. vol. 164; p. 215.
Holt, Pliny E., Stockton, Cal. Traction-engine. No. 994,317; June 6; Sp. p. 435; Gaz. vol. 167; p. 75.
Holt, Pliny E., Stockton, Cal. Pivoted front steering-truck. No. 994,318; June 6; Sp. p. 437; Gaz. vol. 167; p. 76.
Holt, Pliny E., Stockton, Cal. Tractor. No. 1,003,110; Sept. 12; Sp. p. 2049; Gaz. vol. 170; p. 352.
Holt, Pliny E., Stockton, Cal. Tractor-hoist and tractor-excavator. No. 1,008,338; Nov. 14; Sp. p. 1539; Gaz. vol. 172; p. 282.
Holt, Pliny E., Stockton, Cal. Draw-bar for wagons. No. 1,012,551; Dec. 19; Sp. p. 4766; Gaz. vol. 173; p. 818.
Holt, William K., Loris, S. C. Engine-stopping device. No. 998,847; July 25; Sp. p. 4917; Gaz. vol. 168; p. 885.
Holten, Halftan T., Montrose, N. D. Hay-unloader. No. 989,504; Apr. 11; Sp. p. 2552; Gaz. vol. 165; p. 433.

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Holth, Anton J., Rochester, N. Y. Gage for boring-machines. No. 995,461; June 20; Sp. p. 2973; Gaz. vol. 167; p. 531.
Holtin, Carl, Brockton, Mass. Saw-set. No. 1,007,697; Nov. 7; Sp. p. 97; Gaz. vol. 172; p. 15.
Holtkott, Richard, Bedburg, Germany. Process and apparatus for manufacturing lincrusta. No. 1,004,027; Sept. 26; Sp. p. 4050; Gaz. vol. 170; p. 731.
Holton, Edward U., Carteret, N. J. Fertilizer-mixing apparatus. No. 981,563; Jan. 10; Sp. p. 3122; Gaz. vol. 162; p. 509.
Holton, Francis H., Akron, Ohio. Vehicle-tire. No. 1,000,000; Aug. 8; Sp. p. 1618; Gaz. vol. 169; p. 304.
Holton, Frank, assignor to Frank Holton Company, Chicago, Ill. Cornet. No. 1,005,972; Oct. 17; Sp. p. 3086; Gaz. vol. 171; p. 554.
Holton, George E., Catasauqua, Pa. Bur-removing punch for horseshoes. No. 983,997; Feb. 14; Sp. p. 1638; Gaz. vol. 163; p. 282.
Holton, James O., Jr., assignor of one-fifth to J. L. Jeffries, Monett, Mo. Self-adjusting fuse. No. 986,463; Mar. 14; Sp. p. 1495; Gaz. vol. 164; p. 270.
Holton, Jesse A., *et al.* (See Hill, Roy M., assignor.)
Holtz, John. (See Reaume, Dennis J., assignor.)
Holtzer-Cabot Electric Company, The. (See Balcome, Herbert A., assignor.)
Holtzer-Cabot Electric Company. (See Durbin, Vernon, assignor.)
Holtzer-Cabot Electric Company. (See Freier, Anton, assignor.)
Holtzer-Cabot Electric Company, The. (See Hanright, Clarence B., assignor.)
Holtzer-Cabot Electric Company, The. (See Kennedy, Carlton L., assignor.)
Holtzer-Cabot Electric Company. (See Taylor and Durbin, assignors.)
Holtzer-Cabot Electric Company. (See Tormin, Egmont M., assignor.)
Holtzhouser, Jacob P. (See Hart and Holtzhouser.)
Holtzman, John, New York, N. Y. Safety-cock. No. 1,010,912; Dec. 5; Sp. p. 1141; Gaz. vol. 173; p. 180.
Holub-Dusha Company. (See Feyk and Drda, assignors.)
Holub-Dusha Company. (See Holub and Dusha, assignors.)
Holub, Louis W., and P. F. Dusha, New York, assignors to Holub-Dusha Company, Saratoga Springs, N. Y. Button-blank-cutting machine. No. 999,031; July 25; Sp. p. 5347; Gaz. vol. 168; p. 951.
Holub, Louis W., and P. F. Dusha, New York, assignors to Holub-Dusha Company, Saratoga Springs, N. Y. Button-blank-cutting machine. No. 999,032; July 25; Sp. p. 5350; Gaz. vol. 168; p. 952.
Holvig, H., *et al.* (See Olson, Edward, assignor.)
Holz, Robert A. C., Cleveland, Ohio. Vacuum apparatus for hyperemic treatments. No. 1,000,001; Aug. 8; Sp. p. 1619; Gaz. vol. 169; p. 304.
Holzer, Hans, Frankfort-on-the-Main, Germany. Preparing beer. No. 983,998; Feb. 14; Sp. p. 1639; Gaz. vol. 163; p. 283.
Holzmueller, Walter K., Buffalo, N. Y. Explosion-engine. No. 988,344; Apr. 4; Sp. p. 108; Gaz. vol. 165; p. 20.
Homan, Gilson, Passaic, N. J. Sliding-door fastener. No. 1,004,262; Sept. 26; Sp. p. 4597; Gaz. vol. 170; p. 813.
Homan, James, assignor of one-half to R. A. Bruce, D. Downie, G. H. Irvin, J. Tait, and J. H. C. Todd, Grand View, Manitoba, Canada. Grain-shocking machine. No. 996,857; July 4; Sp. p. 534; Gaz. vol. 168; p. 88.
Hömberg, Rudolf, Charlottenburg, Germany. Manufacture of filaments, films, and other cellulose products from cellulose solutions. No. 983,139; Jan. 31; Sp. p. 6487; Gaz. vol. 162; p. 1128.
Home Construction Company. (See Smith, Bert J., assignor.)
Homer Roberts Telephone Co. (See Roberts, Homer J., assignor.)
Homer Roberts Telephone Co. (See Souther, Sidney A., assignor.)
Homishak, Peter, assignor of one-half to T. Jabschanka, St. Louis, Mo. Mechanical motor. No. 985,674; Feb. 28; Sp. p. 5235; Gaz. vol. 163; p. 924.
Hommel, Joseph M., Detroit, Mich. Shipping-package. No. 1,008,151; Nov. 7; Sp. p. 1073; Gaz. vol. 172; p. 175.
Hommel, Woldemar. (See MacIvor and Hommel.)
Hommel, Woldemar, assignor to Metals Extraction Corporation, Limited, London, England. Production of zinc oxid from zinc ores and zinc residues. No. 1,002,401; Sept. 5; Sp. p. 514; Gaz. vol. 170; p. 72.
Hommel, Woldemar, and H. T. Durant, assignors to The Metals Extraction Corporation Limited, London, England. Extraction of metals from their ores. No. 1,009,750; Nov. 28; Sp. p. 4697; Gaz. vol. 172; p. 852.
Homsher, Carl S., Denver, Colo. Porch-receptacle for electric-conduit outlet-boxes. No. 991,309; May 2; Sp. p. 1044; Gaz. vol. 166; p. 174.
Homsher, Carl S., Denver, Colo. Drop-cord cap for electric-conduit outlet-boxes. No. 1,002,061; Aug. 29; Sp. p. 6119; Gaz. vol. 169; p. 1106.
Homsher, Carl S., and W. E. Lawrence, Denver, Colo. Foldable ironing-board. No. 995,142; June 13; Sp. p. 2283; Gaz. vol. 167; p. 396.
Honabach, Clarence W., Edwardsville, Pa. Coal and slate separator. No. 983,283; Feb. 7; Sp. p. 54; Gaz. vol. 163; p. 11.
Honegger, Werner. (See Riehl and Honegger.)
Honeker, Alta L. (See Gates, William G., assignor.)
Honey, Allen, Conconully, Wash. Swather or sickle-bar head. No. 999,452; Aug. 1; Sp. p. 513; Gaz. vol. 169; p. 90.
Honey, Archie P., Salem, Mo. Locking device for crate-lids and the like. No. 1,007,204; Oct. 31; Sp. p. 5860; Gaz. vol. 171; p. 1070.
Honiss, William H., *et al.* (See Arkell, Bartlett, assignor.)
Honiss, William H., *et al.* (See Lorenz, William A., assignor.)
Honold, Gottlob, Stuttgart, Germany. Short-circuiting device for magneto-electric igniting apparatus for explosion-motors. No. 993,375; May 30; Sp. p. 5461; Gaz. vol. 166; p. 1005.
Honold, Gottlob, Stuttgart, Germany. Apparatus for the electric ignition of large internal-combustion engines. No. 995,676; June 20; Sp. p. 3452; Gaz. vol. 167; p. 608.
Honold, Gottlob, Stuttgart, Germany. Means for starting internal-combustion engines. No. 1,003,743; Sept. 19; Sp. p. 3401; Gaz. vol. 170; p. 606.
Honold, Gottlob, assignor to The Firm of R. Bosch, Stuttgart, Germany. Construction of coils for electrical apparatus. No. 986,291; Mar. 7; Sp. p. 1108; Gaz. vol. 164; p. 178.
Honold, Gottlob, assignor to Firm of R. Bosch, Stuttgart, Germany. Magnet-frame for magneto-generators. No. 1,009,518; Nov. 21; Sp. p. 4233; Gaz. vol. 172; p. 729.
Honold, Gottlob, assignor to The Firm of R. Bosch, Stuttgart, Germany. Insulation of windings in electrical apparatus. No. 1,011,791; Dec. 12; Sp. p. 3133; Gaz. vol. 173; p. 523.
Honolulu Iron Works Company. (See Dyer, William J., assignor.)
Honour, Charles, New Westminster, British Columbia, Canada. Can containing and pouring vessel. No. 1,006,217; Oct. 17; Sp. p. 3643; Gaz. vol. 171; p. 641.
Hoober, John B., Kansas City, Mo. Riding-harrow. No. 988,193; Mar. 28; Sp. p. 5178; Gaz. vol. 164; p. 918.
Hood, Ernest K., and W. J. Campbell, assignors to Climax Machinery Company, Indianapolis, Ind. Sterilizer. No. 1,011,792; Dec. 12; Sp. p. 3134; Gaz. vol. 173; p. 523.
Hood, John H., Philadelphia, Pa. Registering device for passenger-cars. No. 983,552; Feb. 7; Sp. p. 656; Gaz. vol. 163; p. 101.
Hood Rubber Company. (See Mason, Herbert C., assignor.)
Hood, Thomas H., Greenville, Miss. Fumigating apparatus. No. 991,310; May 2; Sp. p. 1046; Gaz. vol. 166; p. 174.
Hood, Thomas H., Greenville, Miss. Disinfecting books. No. 1,005,036; Oct. 3; Sp. p. 1023; Gaz. vol. 171; p. 170.
Hood, William A., Corbin, Ky. Safe-lock. No. 993,067; May 23; Sp. p. 4798; Gaz. vol. 166; p. 872.
Hoofer, Charles F., Spokane, Wash. Ash-holder for cigars. No. 1,006,218; Oct. 17; Sp. p. 3644; Gaz. vol. 171; p. 641.
Hoofring, Eric L., Vandegrift, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Collector for traveling cranes and the like. No. 1,008,913; Nov. 14; Sp. p. 2857; Gaz. vol. 172; p. 481.
Hoogner, Irving E., Hamill, S. D. Mirror-support. No. 1,001,759; Aug. 29; Sp. p. 5472; Gaz. vol. 169; p. 1006.
Hook, Curnealus, Vigo, Ohio. Kiln. No. 990,558; Apr. 25; Sp. p. 4928; Gaz. vol. 165; p. 860.
Hooker Electrochemical Company. (See Marsh, Clarence W., assignor.)
Hooker, Luke B., assignor of one-half to T. Wilson, San Francisco, Cal. Sweeping-machine. No. 1,000,912; Aug. 15; Sp. p. 3645; Gaz. vol. 169; p. 655.
Hooper, Charles N., Dubuque, Iowa. Door for metallurgical furnaces and ovens. No. 983,494; Feb. 7; Sp. p. 505; Gaz. vol. 163; p. 81.
Hooper, Frederick E., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-flexing machine. No. 1,007,870; Nov. 7; Sp. p. 516; Gaz. vol. 172; p. 78.
Hooper, Louis M., Rutherford, N. J., assignor to The J. L. Mott Iron Works. Liquid-mixing apparatus. No. 1,010,052; Nov. 28; Sp. p. 5322; Gaz. vol. 172; p. 954.
Hooper, William H., Orange, Mass. Window-lock. No. 981,428; Jan. 10; Sp. p. 2881; Gaz. vol. 162; p. 465.
Hoopes, William P., Milton, Pa. Elastic wheel for motor-vehicles. No. 1,005,707; Oct. 10; Sp. p. 2499; Gaz. vol. 171; p. 429.
Hoople, William H. (See Erickson, Charles F., assignor.)
Hoops, Oscar, New York, N. Y. Blue-print washing and drying machine. No. 1,005,430; Oct. 10; Sp. p. 1875; Gaz. vol. 171; p. 332.
Hoorickx, Emile, Brussels, Belgium. Manufacture of silvered-glass mirrors. No. 993,776; May 30; Sp. p. 6347; Gaz. vol. 166; p. 1144.

Alphabetical list of patentees—Continued.

Hoornbeek, Eugene. (See Norton, Lowell P., assignor.)
Hooven, Owens, Rentschler Company, The. (See Mayo, William B., assignor.)
Hoover, Arthur L., Avery, Ohio. Potato-digger. No. 980,953; Jan. 10; Sp. p. 1717; Gaz. vol. 162; p. 296.
Hoover, Arthur L., Avery, Ohio. Truck. No. 981,761; Jan. 17; Sp. p. 3534; Gaz. vol. 162; p. 599.
Hoover, Benjaman, assignor of one-third to J. M. Slaughter, Meridian, Miss. Hose-patch and applying-tool. No. 987,230; Mar. 21; Sp. p. 3105; Gaz. vol. 164; p. 563.
Hoover, Christian, *et al.* (See Loy, William C., assignor.)
Hoover, Cornealus P., Hartford, Kans. Chalk-line holder. No. 986,171; Mar. 7; Sp. p. 862; Gaz. vol. 164; p. 139.
Hoover, Edward M., Lapel, Ind. Gas-generator. No. 996,716; July 4; Sp. p. 242; Gaz. vol. 168; p. 42.
Hoover, Isaac W., Avery, Ohio. Metal-bending machine. No. 986,713; Mar. 14; Sp. p. 2026; Gaz. vol. 164; p. 355.
Hoover, Jacob C., Englewood, Ohio. Vehicle-spindle. No. 991,991; May 9; Sp. p. 2466; Gaz. vol. 166; p. 438.
Hoover, M. Eugene. (See Dobie and Robb, assignors.)
Hoover, Orlando B., and M. Curry, Killeen, Tex. Machine for filling brushes. No. 985,806; Mar. 7; Sp. p. 77; Gaz. vol. 164; p. 17.
Hoover, Rufus A., *et al.* (See Archer, Samuel R., assignor.)
Hoover Suction Sweeper Company, The. (See Case, Francis M., assignor.)
Hope, Charles and H., New Brighton, Pa. Gas-heated sad-iron. No. 993,524; May 30; Sp. p. 5782; Gaz. vol. 166; p. 1056.
Hope, Harry. (See Hope, Charles and H.)
Hope, John T., Kansas City, Mo. Wall-valve for pneumatic cleaning systems. No. 980,418; Jan. 3; Sp. p. 496; Gaz. vol. 162; p. 85.
Hope, Vernon, Manchester, England. Iron-clad electric switch. No. 986,570; Mar. 14; Sp. p. 1729; Gaz. vol. 164; p. 306.
Hope Webbing Company *et al.* (See Gardner, Percy, assignor.)
Hope, William. (See Yost, Joseph E., assignor.)
Hope, William H., Providence, R. I. Geometric attachment for pantograph engraving-machines. No. 1,005,973; Oct. 17; Sp. p. 3089; Gaz. vol. 171; p. 555.
Hope, William J., Tunica, Miss. Comb and brush. No. 1,010,913; Dec. 5; Sp. p. 1142; Gaz. vol. 173; p. 180.
Hopewell, Charles F., Cambridge, Mass. Convertible two to four cycle gas-engine. No. 991,063; May 2; Sp. p. 480; Gaz. vol. 166; p. 84.
Hopewell, Charles F., Newton, Mass. Vibroscope. No. 999,225; Aug. 1; Sp. p. 67; Gaz. vol. 169; p. 13.
Hopfenbeck, John M. (See Frazier, Brewster, and Hopfenbeck.)
Hopkins, Charles E., Worcester, Mass. Apparatus for casting curved stereotypes. No. 980,419; Jan. 3; Sp. p. 497; Gaz. vol. 162; p. 85.
Hopkins, Charles L., Chicago, Ill., assignor to The Curtain Supply Company, Newark, N. J. Curtain-fixture. No. 982,002; Jan. 17; Sp. p. 4102; Gaz. vol. 162; p. 684.
Hopkins, Ezra F., assignor to A. N. Eastman, Chicago, Ill. Closure for jars, bottles, and similar articles. No. 984,815; Feb. 21; Sp. p. 3394; Gaz. vol. 163; p. 598.
Hopkins, Fred M., Muscatine, assignor of one-third to W. C. Hopkins and one-third to H. Umlandt, Muscatine county, Iowa. Button-making machine. No. 981,564; Jan. 10; Sp. p. 3124; Gaz. vol. 162; p. 510.
Hopkins, Frederick E., Sterling, N. Y. Umbrella-carrier. No. 996,340; June 27; Sp. p. 4947; Gaz. vol. 167; p. 871.
Hopkins, George W., Cleveland, Ohio. Blowpipe apparatus. No. 985,896; Mar. 7; Sp. p. 296; Gaz. vol. 164; p. 48.
Hopkins, Harvey L., Chicago, Ill., assignor to The Hopkins Patent Company. Mower or harvester. No. 980,782; Jan. 3; Sp. p. 1287; Gaz. vol. 162; p. 207.
Hopkins, Hubert, Maplewood, Mo. Type-writing machine. No. 985,675; Feb. 28; Sp. p. 5237; Gaz. vol. 163; p. 925.
Hopkins, James R. I. (See Thorne and Hopkins.)
Hopkins, John H. (See Barnes, Charles J., assignor.)
Hopkins, John S., assignor of two-fifths to L. G. Andrews, Brooklyn, N. Y. Heat-insulated receptacle. No. 1,000,172; Aug. 8; Sp. p. 2027; Gaz. vol. 169; p. 363.
Hopkins Patent Company, The. (See Hopkins, Harvey L., assignor.)
Hopkins, Prince C., New York, N. Y. Flying-machine. No. 1,001,849; Aug. 29; Sp. p. 5662; Gaz. vol. 169; p. 1037.
Hopkins, William C., *et al.* (See Hopkins, Fred M., assignor.)
Hopkins, William L., Roslyn, assignor to American Lithographic Company, New York, N. Y. Card advertising. No. 987,989; Mar. 28; Sp. p. 4781; Gaz. vol. 164; p. 852.
Hopkins, William W., assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Key-bar-locking mechanism for calculating-machines, &c. No. 987,068; Mar. 14; Sp. p. 2738; Gaz. vol. 164; p. 473.
Hopkinson, Joseph, Dayton, Ohio. Knife-edge bearing. No. 1,012,641; Dec. 26; Sp. p. 4977; Gaz. vol. 173; p. 894.
Hopkinson, Joseph, assignor to Computing Scale Company, Dayton, Ohio. Computing-scale. No. 1,012,640; Dec. 26; Sp. p. 4976; Gaz. vol. 173; p. 894.
Hopp, Percy P., New York, N. Y. Awning-supporter. No. 989,709; Apr. 18; Sp. p. 3034; Gaz. vol. 165; p. 534.
Hoppenstand, Icek M., Warsaw, Russia. Walking-stick umbrella. No. 1,000,911; Aug. 15; Sp. p. 3643; Gaz. vol. 169; p. 654.
Hopper, Andrew J., and H. F. Prindle, Oakland, Cal. Fume-condenser. No. 1,007,356; Oct. 31; Sp. p. 6160; Gaz. vol. 171; p. 1123.
Hopper, Charles A. (See Conner, John D., assignor.)
Hopper, John B. (See Baker, John, assignor.)
Hoppes, John J., Springfield, Ohio. Condenser. No. 995,462; June 20; Sp. p. 2975; Gaz. vol. 167; p. 531.
Hoppes, John J., assignor to The Hoppes Manufacturing Company, Springfield, Ohio. Feed-water heater. No. 995,349; June 13; Sp. p. 2716; Gaz. vol. 167; p. 464.
Hoppes Manufacturing Company, The. (See Hoppes, John J., assignor.)
Hoppie, William, Ogden, Utah, assignor of one-fourth to W. Counts, Sparks, Nev., and one-fourth to A. G. Horn, Ogden, Utah. Sound-intensifier for telephones. No. 1,012,854; Dec. 26; Sp. p. 5471; Gaz. vol. 173; p. 968.
Hopping, Walter B., trustee. (See Chapman, William B., assignor.)
Hopson, William T., New London, Conn., and C. B. Rearick, New York, N. Y. Casting steam-turbine wheels, &c. No. 1,008,478; Nov. 14; Sp. p. 1936; Gaz. vol. 172; p. 331.
Horack, Ira E. (See Nickles, Clair A., assignor.)
Horan, James J. (See Lincoln, Howard N., assignor.)
Hordich, Boleslaus, West New York, assignor to Hansen & Co., Jersey City, N. J. Novelty folding box. No. 997,063; July 4; Sp. p. 998; Gaz. vol. 168; p. 160.
Horinko, Leonard, New York, N. Y. Coin-operated mechanism for vending-machines. No. 986,985; Mar. 14; Sp. p. 2577; Gaz. vol. 164; p. 446.
Horinko, Leonard, New York, N. Y. Vending-machine. No. 989,363; Apr. 11; Sp. p. 2268; Gaz. vol. 165; p. 385.
Hormby, John, Springfield, Mass. Shaft-coupling. No. 987,878; Mar. 28; Sp. p. 4501; Gaz. vol. 164; p. 813.
Hormel, August, New York, N. Y. Antiskidding device for automobiles. No. 991,445; May 2; Sp. p. 1315; Gaz. vol. 166; p. 219.
Hormel, August, assignor to Hormel Auto-Appliance Company, New York, N. Y. Pneumatic tire. No. 984,672; Feb. 21; Sp. p. 3083; Gaz. vol. 163; p. 546.
Hormel, August, assignor to Hormel Auto-Appliance Company, New York, N. Y. Antiskidding device for automobiles and similar vehicles. No. 1,006,659; Oct. 24; Sp. p. 4631; Gaz. vol. 171; p. 826.
Hormel Auto-Appliance Company. (See Hormel, August, assignor.)
Hormell & Co., George A. (See Fisher, Levi P., assignor.)
Horn, Albert G., *et al.* (See Hoppie, William, assignor.)
Horn, Carlisle C., and H. L. Bening, Roanoke, Va. Mail-crane. No. 1,010,765; Dec. 5; Sp. p. 825; Gaz. vol. 173; p. 128.
Horn, Frank, Columbus, Ohio. Car-roof. No. 982,063; Jan. 17; Sp. p. 4224; Gaz. vol. 162; p. 704.
Horn, Guy L., Papillion, Nebr. Rod-puller. No. 995,143; June 13; Sp. p. 2285; Gaz. vol. 167; p. 396.
Horn, Joseph, Philadelphia, Pa. Damper-regulator. No. 980,783; Jan. 3; Sp. p. 1296; Gaz. vol. 162; p. 208.
Horn, Luther. (See Mabry, Oscar, assignor.)
Horn, William J., Lamar, Mo. Cement and steel railway-tie. No. 986,920; Mar. 14; Sp. p. 2469; Gaz. vol. 164; p. 427.
Hornbeck, Henry S., Elizabeth, N. J., assignor of one-half to G. M. Newcomer, New York, N. Y. Controlling device for pneumatic piano-players. No. 987,990; Mar. 28; Sp. p. 4781; Gaz. vol. 164; p. 852.
Hornbeck, Henry S., Elizabeth, N. J., assignor of one-half to G. M. Newcomer, New York, N. Y. Piano. No. 993,777; May 30; Sp. p. 6349; Gaz. vol. 166; p. 1145.
Hornbeck, Lloyd B., Minneapolis, Minn. Lamp-hanger. No. 993,525; May 30; Sp. p. 5785; Gaz. vol. 166; p. 1057.
Hornbeek, Edward S. (See Sappington and Hornbeek.)
Hornbostel, Charles, New York, N. Y. Production of gases of high oxidizing efficiency. No. 984,221; Feb. 14; Sp. p. 2109; Gaz. vol. 163; p. 358.
Horne, James. (See Dawson and Horne.)
Horne, James A., Portland, Oreg. Flying-machine. No. 985,034; Feb. 21; Sp. p. 3800; Gaz. vol. 163; p. 671.
Horne, Sanford H., San Francisco, Cal. Vulcanizer. No. 1,008,469; Nov. 14; Sp. p. 1922; Gaz. vol. 172; p. 328.
Horneffer, Frederick L., *et al.* (See Shadall, Charles E., assignor.)
Horner, Allan J., Cleveland, Ohio. Illuminating device. No. 1,007,284; Oct. 31; Sp. p. 6018; Gaz. vol. 171; p. 1098.
Horner, John W., Chicago, Ill. Clothes-drying frame. No. 1,003,744; Sept. 19; Sp. p. 3403; Gaz. vol. 170; p. 607.
Horner, Walter H., Seattle, Wash. Band-iron tightener. No. 1,006,555; Oct. 24; Sp. p. 4432; Gaz. vol. 171; p. 791.
Hornig, August W., Chicago, Ill. Hand-operated glass-cutter. No. 989,603; Apr. 18; Sp. p. 2821; Gaz. vol. 165; p. 499.
Hornig, Paul A., Baltimore, Md. Non-refillable bottle. No. 1,007,698; Nov. 7; Sp. p. 99; Gaz. vol. 172; p. 16.
Hornquist, Frank, Kane, Pa. Sled. No. 1,003,360; Sept. 12; Sp. p. 2567; Gaz. vol. 170; p. 442.

Alphabetical list of patentees—Continued.

Hornquist, Frank, Kane, Pa., assignor to C. Schindler, Toledo, Ohio. Toy pistol. No. 1,000,522; Aug. 15; Sp. p. 2796; Gaz. vol. 169; p. 516.
Hornquist, Frank, assignor of nine-twentieths to A. Fiebig and one-tenth to E. A. McDade, Kane, Pa. Glass-blowing apparatus. No. 1,007,571; Oct. 31; Sp. p. 6641; Gaz. vol. 171; p. 1197.
Horr, Stephen, and W. B. Travis, Detroit, Mich. Multiplying-machine. No. 1,011,057; Dec. 5; Sp. p. 1431; Gaz. vol. 173; p. 228.
Horrabin, Alfred, Iowa City, Iowa. Combined curb and gutter finisher. No. 987,879; Mar. 28; Sp. p. 4502; Gaz. vol. 164; p. 813.
Horrocks, George W., Wilmerding, and C. W. Millar, Carnegie, assignors of one-third to H. C. Platz, Wilkinsburg, Pa. Chuck. No. 993,829; May 30; Sp. p. 6459; Gaz. vol. 166; p. 1162.
Horsley, Percy. (See Burgess, Edward, assignor.)
Horsley, William, Jersey City, N. J. Dies. No. 1,000,002; Aug. 8; Sp. p. 1621; Gaz. vol. 169; p. 305.
Horsman, Harry, Jamestown, Cal. Wrench. No. 982,064; Jan. 17; Sp. p. 4227; Gaz. vol. 162; p. 704.
Horst, Emil C., San Francisco, Cal. Guard for hop-pickers. No. 1,012,135; Dec. 19; Sp. p. 3921; Gaz. vol. 173; p. 678.
Horst, Emil C., San Francisco, Cal. Guard for hop-pickers. No. 1,012,136; Dec. 19; Sp. p. 3923; Gaz. vol. 173; p. 678.
Horst, Emil C., San Francisco, Cal. Guard for hop-pickers. No. 1,012,137; Dec. 19; Sp. p. 3924; Gaz. vol. 173; p. 678.
Horst, Emil C., assignor to E. Clemens Horst Company, San Francisco, Cal. Hop-picker. No. 1,008,914; Nov. 14; Sp. p. 2858; Gaz. vol. 172; p. 481.
Horstman, Charles W., Muncie, Ind. Wrench. No. 987,880; Mar. 28; Sp. p. 4504; Gaz. vol. 164; p. 813.
Horton, Achsah C., Troy, Kans., assignor of one-third to H. Damerell, Flint, Mich. Recorder for switch and signal systems. No. 1,005,037; Oct. 3; Sp. p. 1024; Gaz. vol. 171; p. 170.
Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controlling device. No. 982,365; Jan. 24; Sp. p. 4843; Gaz. vol. 162; p. 839.
Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for electric motors. No. 991,206; May 2; Sp. p. 809; Gaz. vol. 166; p. 137.
Horton, Albert J., White Plains, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. No. 993,526; May 30; Sp. p. 5786; Gaz. vol. 166; p. 1057.
Horton, Allen A., Detroit, Mich. Motor-cycle frame. No. 1,010,142; Nov. 28; Sp. p. 5494; Gaz. vol. 172; p. 984.
Horton, Augustus L., Beachmont, assignor to S. B. Condit, Jr., Boston, Mass. Circuit-breaker. No. 998,580; July 18; Sp. p. 4296; Gaz. vol. 168; p. 759.
Horton, Charles M., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,001,034; Aug. 22; Sp. p. 3974; Gaz. vol. 169; p. 731.
Horton, Emmet, Elmira, N. Y. Blank-feed for basket-making machines. No. 1,008,339; Nov. 14; Sp. p. 1542; Gaz. vol. 172; p. 282.
Horton, George H. (See Fortin and Horton.)
Horton, George T., Chicago, Ill. Water-tank. No. 1,008,645; Nov. 14; Sp. p. 2317; Gaz. vol. 172; p. 391.
Horton, James A., assignor to The British Steel & Wire Company, Limited, Manchester, England. Tapering wire. No. 1,010,429; Dec. 5; Sp. p. 55; Gaz. vol. 173; p. 11.
Horton, James A., Providence, R. I., assignor to The British Steel & Wire Company, Limited, Manchester, England. Machine for tapering wire. No. 1,013,016; Dec. 26; Sp. p. 5844; Gaz. vol. 173; p. 1022.
Horton, James D., Los Angeles, Cal. Portable house. No. 1,007,871; Nov. 7; Sp. p. 518; Gaz. vol. 172; p. 78.
Horton, John T., and E. H. Deline, New York, N. Y. Fall-rope carrier. No. 1,003,261; Sept. 12; Sp. p. 2373; Gaz. vol. 170; p. 407.
Horton, Joseph M., Fillmore, Cal. Table. No. 983,903; Feb. 14; Sp. p. 1420; Gaz. vol. 163; p. 251.
Horton, Lemuel H., Guntown, Miss. Fertilizer-distributer. No. 1,000,003; Aug. 8; Sp. p. 1626; Gaz. vol. 169; p. 306.
Horton, Louis S., Fairview, Ark. Row-gage for plows. No. 990,740; Apr. 25; Sp. p. 5332; Gaz. vol. 165; p. 920.
Horton Manufacturing Company, The. (See Peters, Paul W., assignor.)
Horton, Ralph D. (See Mack and Horton.)
Horton, Sidney E., Windsor Locks, Conn. Chuck. No. 995,006; June 13; Sp. p. 2007; Gaz. vol. 167; p. 352.
Horton, William A., Linn, Okla. Grinder for mower-sections. No. 1,010,632; Dec. 5; Sp. p. 521; Gaz. vol. 173; p. 81.
Horvath, Rudolph F. (See Szentivanyi, Kalman, assignor.)
Horwáth, Louis. (See Asboth and Horwáth.)
Horwáth, Louis, Donora, Pa. Can opening and closing device. No. 988,780; Apr. 4; Sp. p. 1053; Gaz. vol. 165; p. 168.
Horwich, Henry J., assignor to Davis, Horwich & Steinman, Incorporated, Chicago, Ill. Caster. No. 982,820; Jan. 31; Sp. p. 5807; Gaz. vol. 162; p. 1022.
Horwitz, Marks, Detroit, Mich. Clothes-line support. No. 1,002,402; Sept. 5; Sp. p. 515; Gaz. vol. 170; p. 72.
Hosch, Walter E., Gainesville, Ga. Register or recording system. No. 1,012,855; Dec. 26; Sp. p. 5472; Gaz. vol. 173; p. 968.
Hosinger, George. (See Farrell, Lawrence J., assignor.)
Hoska, Albert F., Tacoma, Wash. Hip-strap buckle. No. 982,963; Jan. 31; Sp. p. 6117; Gaz. vol. 162; p. 1069.
Hoskins Manufacturing Company. (See Marsh, Albert L., assignor.)
Hoskyn, John, and J. H. Biddemen; said Biddemen assignor to said Hoskyn, Buffalo, N. Y. Railway-frog. No. 982,272; Jan. 24; Sp. p. 4634; Gaz. vol. 162; p. 804.
Hoslet, Albert N., and A. Libert, Green Bay, Wis. Governor for regulating the revolution of a shaft. No. 1,004,430; Sept. 26; Sp. p. 4937; Gaz. vol. 170; p. 869.
Hoslet, Albert N., and A. Libert, Green Bay, Wis. Governor for regulating the revolutions of a shaft. No. 1,004,431; Sept. 26; Sp. p. 4939; Gaz. vol. 170; p. 869.
Hosley, Nelson D., assignor to The Wilcox & White Company, Meriden, Conn. Fall-board for horizontal grand pianos. No. 998,178; July 18; Sp. p. 3419; Gaz. vol. 168; p. 617.
Hosmann, Béla, Tokod, Austria-Hungary. Saturating and crushing machine. No. 983,055; Jan. 31; Sp. p. 6339; Gaz. vol. 162; p. 1101.
Hosmer, George H., Boston, Mass. Biscuit. No. 994,257; June 6; Sp. p. 324; Gaz. vol. 167; p. 55.
Hospital Supply Company, The. (See Thorner, Bernard D., assignor.)
Hoss, Leroy K. (See Taylor and Hoss.)
Hossack, Henry P., *et al.* (See Bosley, Levi, assignor.)
Hossack, William D, *et al.* (See Bosley, Levi, assignor.)
Hosteter, William, Lyons, Ind. Honey-super for beehives. No. 1,011,793; Dec. 12; Sp. p. 3137; Gaz. vol. 173; p. 524.
Hotaling, Omar J., Johnstown, N. Y. Coin-controlled apparatus for vending-machines. No. 992,774; May 23; Sp. p. 4152; Gaz. vol. 166; p. 768.
Hotchkiss, Charles W., Sandwich, Ill. Osteopath's electric operating-table. No. 993,447; May 30; Sp. p. 5611; Gaz. vol. 166; p. 1029.
Hotchkiss, Eli H., New York, N. Y. Staple-strip. No. 995,677; June 20; Sp. p. 3454; Gaz. vol. 167; p. 609.
Hotchkiss, Isaac E., Kensington, and O. Moberg, assignors to Landers, Frary and Clark, New Britain, Conn. Flat-iron. No. 994,844; June 13; Sp. p. 1652; Gaz. vol. 167; p. 296.
Hotchkiss, Joseph J., Raleigh, N. C. Measuring-pump. No. 981,856; Jan. 17; Sp. p. 3746; Gaz. vol. 162; p. 633.
Hotchkiss, Mark S., Binghamton, N. Y. Form for the construction of concrete walks, floors, curbs, gutters, and like structures. No. 985,035; Feb. 21; Sp. p. 3802; Gaz. vol. 163; p. 671.
Hotchner, Joseph, San Francisco, Cal. Illuminated electric sign. No. 987,069; Mar. 14; Sp. p. 2739; Gaz. vol. 164; p. 473.
Hotchner, Joseph, San Francisco, Cal. Illuminated sign. No. 987,070; Mar. 14; Sp. p. 2740; Gaz. vol. 164; p. 474.
Hotchner, Joseph, San Francisco, Cal. Sign. No. 1,007,029; Oct. 24; Sp. p. 5435; Gaz. vol. 171; p. 952.
Hothersall, John M., assignor to American Can Company, New York, N. Y. Sifter-top for cans or vessels. No. 990,982; May 2; Sp. p. 325; Gaz. vol. 166; p. 56.
Hotson, John H., Brooklyn, assignor to S. M. Bixby & Company, New York, N. Y. Device for opening receptacles. No. 1,003,262; Sept. 12; Sp. p. 2376; Gaz. vol. 170; p. 408.
Hott, David F. (See Miller and Hott.)
Houck, William B., Enhaut, Pa. Railway-tie. No. 1,002,991; Sept. 12; Sp. p. 1803; Gaz. vol. 170; p. 312.
Hough, Elmer, Wellsburg, W. Va. Coal-mining machine. No. 991,508; May 9; Sp. p. 1450; Gaz. vol. 166; p. 272.
Houghton, Albert B. and G. G., Birmingham, England. Shelf-supporting bracket. No. 999,226; Aug. 1; Sp. p. 68; Gaz. vol. 169; p. 14.
Houghton, Benjamin, Mingo Junction, Ohio. Nut-lock. No. 998,514; July 18; Sp. p. 4158; Gaz. vol. 168; p. 736.
Houghton, Guildford G. (See Houghton, Albert B. and G. G.)
Houghton, Lewis T., Worcester, Mass. Fastening device for permitting the interchange of spinning-rings. No. 990,360; Apr. 25; Sp. p. 4457; Gaz. vol. 165; p. 789.
Houghton, Lewis T., Worcester, Mass. Sheet-metal flier-frame. No. 1,008,598; Nov. 14; Sp. p. 2205; Gaz. vol. 172; p. 376.
Houghton, Norman O., Washington, D. C. Non-refillable bottle. No. 988,781; Apr. 4; Sp. p. 1054; Gaz. vol. 165; p. 168.
Houghton, Orley C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Stripper for cotton-pickers. No. 982,676; Jan. 24; Sp. p. 5479; Gaz. vol. 162; p. 945.
Houghton, Orley C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Cotton harvester, crusher, and huller. No. 985,036; Feb. 21; Sp. p. 3806; Gaz. vol. 163; p. 672.

Alphabetical list of patentees—Continued.

Houghton, Orley C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Cotton-harvesting and boll-gathering machine. No. 986,059; Mar. 7; Sp. p. 644; Gaz. vol. 164; p. 104.
Houghton, Orley C., assignor to H. E. and J. E. Bullock, Chicago, Ill. Cotton-picker. No. 1,006,094; Oct. 17; Sp. p. 3337; Gaz. vol. 171; p. 595.
Houk, George W., London, England. Bracket for supporting lamps and other articles. No. 987,139; Mar. 21; Sp. p. 2883; Gaz. vol. 164; p. 530.
Houlihan, John, *et al.* (See Anson, Warren J., assignor.)
Hourd, Arthur E., London township, Middlesex county, Ontario, Canada. Combination dowel and tongue-and-groove joint. No. 991,722; May 9; Sp. p. 1939; Gaz. vol. 166; p. 348.
Hourwich, Iskander, Washington, D. C. Aeroplane. No. 1,008,152; Nov. 7; Sp. p. 1074; Gaz. vol. 172; p. 176.
Housam, George A., Benton Harbor, Mich. Perforating-machine. No. 995,868; June 20; Sp. p. 3888; Gaz. vol. 167; p. 675.
Housatonic Machine and Tool Company, The. (See Weir, James W., assignor.)
House, Edward D. (See Goodwin and House.)
House, Samuel N., St. Louis, Mo. Tenoning-machine. No. 1,005,974; Oct. 17; Sp. p. 3090; Gaz. Vol. 171; p. 555.
House, Thomas M., Weldon, N. C. Measuring device. No. 981,086; Jan. 10; Sp. p. 2083; Gaz. vol. 162; p. 343.
House, Thomas M., Weldon, N. C. Clothes-pressing tool. No. 984,673; Feb. 21; Sp. p. 3083; Gaz. vol. 163; p. 546.
Household Cabinet Works. (See Cooper, Charles A., assignor.)
Household Cabinet Works. (See Stevenson, George L., assignor.)
Householder, James E., assignor of one-half to C. W. Carlson, Cleveland, Ohio. Pump-valve. No. 982,677; Jan. 24; Sp. p. 5481; Gaz. vol. 162; p. 945.
Housel, Leslie J. (See Godfrey and Housel.)
Houser, Norman E., St. Louis, Mo. Thermo-electric fountain-syringe. No. 1,000,335; Aug. 8; Sp. p. 2354; Gaz. vol. 169; p. 417.
Houser, Walter, Summithill, Pa. Boiler-feeder. No. 987,140; Mar. 21; Sp. p. 2885; Gaz. vol. 164; p. 530.
Houser, Walter, Summithill, Pa. Automatic valve for steam and hot-water radiators. No. 991,064; May 2; Sp. p. 488; Gaz. vol. 166; p. 84.
Houser, Walter, Summithill, Pa. Automatic damper-controlling mechanism. No. 997,555; July 11; Sp. p. 1982; Gaz. vol. 168; p. 354.
Houser, Winfield S., assignor of one-half to A. Barclay, Dubois, Pa. Knockdown box. No. 1,011,794; Dec. 12; Sp. p. 3139; Gaz. vol. 173; p. 524.
Housh, Frank E., Winthrop, Mass. Loose-leaf book. No. 1,011,795; Dec. 12; Sp. p. 3140; Gaz. vol. 173; p. 524.
Houston, James D., Gage, Okla. Eye-bathing mask. No. 1,006,945; Oct. 24; Sp. p. 5265; Gaz. vol. 171; p. 926.
Houston, William A., Tracy, Minn. Fountain-pen. No. 999,648; Aug. 1; Sp. p. 886; Gaz. vol. 169; p. 154.
Houts, Wallace A. (See Roy, Alexander, assignor.)
Houtz, John J. (See Goss, Joseph O., assignor.)
Hovendick, John E., Blair, Nebr. Roller crushing and grinding mill. No. 1,000,913; Aug. 15; Sp. p. 3647; Gaz. vol. 169; p. 655.
Hovey, Alfred E., Cass Lake, Minn. Pool and billiard table register. No. 1,000,091; Aug. 8; Sp. p. 1856; Gaz. vol. 169; p. 335.
Hovey, Allyne C., assignor of thirty one-hundredths to W. Rosenbaum and thirty one-hundredths to H. S. Heymann, Pittsburg, Pa. Variable self-induction coil. No. 985,009; Feb. 21; Sp. p. 3748; Gaz. vol. 163; p. 662.
Hovey, William S. (See Mahana, Hovey, and Stebbins.)
Hovey, William S., and C. B. Stebbins, assignors to Sheffield Car Company, Three Rivers, Mich. Railway-car. No. 987,881; Mar. 28; Sp. p. 4505; Gaz. vol. 164; p. 814.
Hovey, William S., and C. B. Stebbins, assignors to Sheffield Car Company, Three Rivers, Mich. Railway motor-car. No. 992,356; May 16; Sp. p. 3302; Gaz. vol. 166; p. 594.
Hovey, William S., and C. B. Stebbins, assignors to Sheffield Car Company, Three Rivers, Mich. Motor-car. No. 998,179; July 18; Sp. p. 3420; Gaz. vol. 168; p. 617.
Hovey, William S., and C. B. Stebbins, assignors to Sheffield Car Company, Three Rivers, Mich. Motor-car. No. 1,009,519; Nov. 21; Sp. p. 4235; Gaz. vol. 172; p. 729.
Hovis, George F., Clintonville, Pa. Water-discharge attachment for deep-well packers. No. 997,915; July 11; Sp. p. 2820; Gaz. vol. 168; p. 482.
Howard, Archibald M. (See Raudabaugh, William A., assignor.)
Howard, Archibald P., Welches, Oreg. Wood sawing and splitting machine. No. 1,001,272; Aug. 22; Sp. p. 4454; Gaz. vol. 169; p. 809.
Howard, Asa B., Wellington, Kans. Traction-engine. No. 985,897; Mar. 7; Sp. p. 298; Gaz. vol. 164; p. 48.
Howard, Benjamin F., assignor of one-half to J. W. Staub, Indianapolis, Ind. Lubricator. No. 992,503; May 16; Sp. p. 3598; Gaz. vol. 166; p. 646.
Howard & Bullough American Machine Company. (See Hitchon, Alfred, assignor.)
Howard & Bullough American Machine Company. (See Watson and Moulding, assignors.)
Howard, Charles, New York, N. Y., assignor to National Lumber Vulcanizing Corporation. Superheater. No. 996,765; July 4; Sp. p. 334; Gaz. vol. 168; p. 56.
Howard, Charles, New York, N. Y., assignor, by mesne assignments, to National Lumber Vulcanizing Corporation. Vulcanizing wood. No. 1,004,168; Sept. 26; Sp. p. 4413; Gaz. vol. 170; p. 780.
Howard, Charles G., Exeter, Nebr. Hog-feeding apparatus. No. 982,678; Jan. 24; Sp. p. 5482; Gaz. vol. 162; p. 945.
Howard, Clarence H., St. Louis, Mo. Forming molds for castings. No. 999,308; Aug. 1; Sp. p. 219; Gaz. vol. 169; p. 41.
Howard, Clarence H., assignor to Commonwealth Steel Company, St. Louis, Mo. Mold. No. 996,585; June 27; Sp. p. 5455; Gaz. vol. 167; p. 954.
Howard, Clarence H., assignor to Double Body Bolster Company, St. Louis, Mo. Car-underframe. No. 1,009,751; Nov. 28; Sp. p. 4698; Gaz. vol. 172; p. 852.
Howard, Clarence H., and H. M. Pflager, assignors to Double Body Bolster Company, St. Louis, Mo. Car-brake gear. No. 991,850; May 9; Sp. p. 2188; Gaz. vol. 166; p. 390.
Howard, Clarence H., and H. M. Pflager, assignors to Double Body Bolster Company, St. Louis, Mo. Railway-car brake. No. 992,197; May 16; Sp. p. 2893; Gaz. vol. 166; p. 539.
Howard, Clarence H., and H. M. Pflager, assignors to Double Body Bolster Company, St. Louis, Mo. Railway-car brake. No. 1,010,496; Dec. 5; Sp. p. 213; Gaz. vol. 173; p. 35.
Howard, Frank H. (See Cross, Joseph T., assignor.)
Howard, Frank H., Reading, Pa. Trolley. No. 991,207; May 2; Sp. p. 813; Gaz. vol. 166; p. 138.
Howard, Frank H., Reading, Pa. Trolley. No. 1,008,543; Nov. 14; Sp. p. 2071; Gaz. vol. 172; p. 354.
Howard, Frank S., Lombard, Ill. Roofing-joint. No. 993,686; May 30; Sp. p. 6153; Gaz. vol. 166; p. 1113.
Howard, Fred W., Alfred, N. Y. Poultry-house. No. 1,004,169; Sept. 26; Sp. p. 4415; Gaz. vol. 170; p. 781.
Howard, Frederic N., Harris, R. I. Starting device for explosive-engines. No. 983,284; Feb. 7; Sp. p. 56; Gaz. vol. 163; p. 11.
Howard, Frederick H., Montebello, Cal. Plastic block and earthenware apparatus. No. 981,267; Jan. 10; Sp. p. 2510; Gaz. vol. 162; p. 408.
Howard, Fredrick, insane, Lowell; T. M. Courtney, guardian, assignor to Draper Company, Hopedale, Mass. Release and let-back motion. No. 986,006; Mar. 7; Sp. p. 545; Gaz. vol. 164; p. 87.
Howard, Guy C., Seattle, assignor to Howard Pulp Process Company, Everett, Wash. Production of mechanical wood-pulp. No. 997,064; July 4; Sp. p. 999; Gaz. vol. 168; p. 160.
Howard, Hasting P., assignor of five-twelfths to J. H. Cartwright, Memphis, Tenn. Convertible stock and box car. No. 1,011,796; Dec. 12; Sp. p. 3142; Gaz. vol. 173; p. 524.
Howard, Henry A., Lloydminster, Saskatchewan, Canada. Driving mechanism for traction-engines. No. 1,012,552; Dec. 19; Sp. p. 4768; Gaz. vol. 173; p. 818.
Howard, Henry J. M., Washington, D. C. Hose-holder. No. 980,954; Jan. 10; Sp. p. 1720; Gaz. vol. 162; p. 297.
Howard, J. Raymond. (See Howard, William H., assignor.)
Howard, James B., Indianapolis, Ind. Magazine-stove. No. 980,264; Jan. 3; Sp. p. 161; Gaz. vol. 162; p. 31.
Howard, James H., Kansas City, Kans. Overhead trolley. No. 1,006,382; Oct. 17; Sp. p. 4001; Gaz. vol. 171; p. 697.
Howard, John, Albion, Nebr. Harness-supporting hook. No. 1,005,219; Oct. 10; Sp. p. 1385; Gaz. vol. 171; p. 255.
Howard, John, Albion, Nebr. Supporting-hook. No. 1,005,838; Oct. 17; Sp. p. 2777; Gaz. vol. 171; p. 506.
Howard, John, assignor of one-fourth to A. J. Ruddy and one-fourth to J. P. Shirley, Albion, Nebr. Hay-stacker. No. 1,006,850; Oct. 24; Sp. p. 5062; Gaz. vol. 171; p. 892.
Howard, Lemuel F., Edgewood Park, assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway signaling. No. 1,009,309; Nov. 21; Sp. p. 3757; Gaz. vol. 172; p. 655.
Howard, Lincoln, Ralston, Nebr. Combined coal and gas heating-stove. No. 993,299; May 23; Sp. p. 5274; Gaz. vol. 166; p. 946.
Howard, Lincoln, Ralston, Nebr. Combination coal and wood heating-stove. No. 993,300; May 23; Sp. p. 5276; Gaz. vol. 166; p. 946.
Howard, Louis S., Wichita, Kans. Illuminating system for theatrical display. No. 993,251; May 23; Sp. p. 5181; Gaz. vol. 166; p. 931.
Howard, Mentor, Corvallis, Oreg. Meat-tenderer. No. 983,056; Jan. 31; Sp. p. 6340; Gaz. vol. 162; p. 1101.
Howard, Nelson F., Jackson township, Clinton county, Ind. Fence-tightening post. No. 987,365; Mar. 21; Sp. p. 3392; Gaz. vol. 164; p. 608.
Howard, Orange M., Kansas City, Mo. Printing-press. No. 998,848; July 25; Sp. p. 4918; Gaz. vol. 168; p. 885.

Alphabetical list of patentees—Continued.

Howard, Pliny J. (See Shallenberger and Howard.)
Howard Pulp Process Company. (See Howard, Guy C., assignor.)
Howard, Robert, Weiser, Idaho. Saw-frame. No. 990,133; Apr. 18; Sp. p. 3928; Gaz. vol. 165; p. 678.
Howard, Robert F., Kansas City, Kans. Sewing-machine motor mechanism. No. 987,804; Mar. 28; Sp. p. 4322; Gaz. vol. 164; p. 787.
Howard, Robert W. (See Chaplin, Orril R., assignor.)
Howard, Rowland H. (See Knudsen, Charles L., assignor.)
Howard, Samuel M., Gettysburg, S. D. Aquaplane. No. 989,604; Apr. 18; Sp. p. 2823; Gaz. vol. 165; p. 499.
Howard, Thomas A., Murray, Utah. Fish-screen. No. 992,563; May 16; Sp. p. 3731; Gaz. vol. 166; p. 668.
Howard, Warren, La Crosse, Wis. Paper-fastener. No. 980,525; Jan. 3; Sp. p. 768; Gaz. vol. 162; p. 123.
Howard, William H., assignor of one-half to J. R. Howard, Cotopaxi, Colo. Incubator. No. 983,823; Feb. 7; Sp. p. 1212; Gaz. vol. 163; p. 193.
Howard, William L., Trenton, N. J. Vehicle-wheel. No. 991,311; May 2; Sp. p. 1048; Gaz. vol. 166; p. 175.
Howard, William L., Trenton, N. J. Vehicle-wheel. No. 991,312; May 2; Sp. p. 1050; Gaz. vol. 166; p. 175.
Howarth, Robert H., Rothschild, Wis. Stuffing-box packing. No. 1,013,017; Dec. 26; Sp. p. 5846; Gaz. vol. 173; p. 1022.
Howe, Andrew F., Granite City, Ill. Antifriction journal-bearing. No. 992,504; May 16; Sp. p. 3600; Gaz. vol. 166; p. 646.
Howe, Andrew F., Granite City, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Method of and means for forming molds for castings. No. 995,968; June 20; Sp. p. 4082; Gaz. vol. 167; p. 710.
Howe, Arthur L., assignor of one-fourth to W. R. Whitney, Methuen, and one-fourth to J. W. Smith, administrator of W. Smith, deceased, Lawrence, Mass. Advertising apparatus. No. 1,003,745; Sept. 19; Sp. p. 3304; Gaz. vol. 170; p. 607.
Howe, Charles C., Wyoming, R. I. Car-axle-journal-box packing. No. 997,501; July 11; Sp. p. 1866; Gaz. vol. 168; p. 337.
Howe, Charles W., Detroit, Mich. Fountain marking-brush. No. 983,999; Feb. 14; Sp. p. 1640; Gaz. vol. 163; p. 283.
Howe, Emery D., Cape Girardeau, Mo. Detachable umbrella-handle. No. 1,007,572; Oct. 31; Sp. p. 6644; Gaz. vol. 171; p. 1197.
Howe, Frederic W., Framingham, Mass. Preserving milk. No. 1,000,409; Aug. 15; Sp. p. 2553; Gaz. vol. 169; p. 476.
Howe, George M., Buffalo, N. Y. Clutch mechanism for type-writer platens. No. 989,605; Apr. 18; Sp. p. 2824; Gaz. vol. 165; p. 499.
Howe, James, assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer receptacle or case. No. 990,269; Apr. 25; Sp. p. 4247; Gaz. vol. 165; p. 758.
Howe, James H., Paintsville, Ky. Adjustable work-rest for benches. No. 980,784; Jan. 3; Sp. p. 1299; Gaz. vol. 162; p. 208.
Howe, John W., Forest Park, assignor of one-half to A. Hlarac, Chicago, Ill. Tag-machine. No. 1,005,548; Oct. 10; Sp. p. 2123; Gaz. vol. 171; p. 374.
Howe, Joseph B., Worcester, assignor to G. S. Harwood & Son, Boston, Mass. Reversing device for geared travelers. No. 994,748; June 13; Sp. p. 1425; Gaz. vol. 167; p. 264.
Howe, Joseph B., Worcester, assignor to G. S. Harwood & Son, Boston, Mass. Clutch for feeding mechanism for carding-machines. No. 998,003; July 18; Sp. p. 3043; Gaz. vol. 168; p. 554.
Howe, Leon S., New York, N. Y. Metallic shipping-package. No. 1,004,028; Sept. 26; Sp. p. 4052; Gaz. vol. 170; p. 731.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Electromagnetic device. No. 985,676; Feb. 28; Sp. p. 5241; Gaz. vol. 163; p. 925.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Detent mechanism. No. 985,677; Feb. 28; Sp. p. 5242; Gaz. vol. 163; p. 926.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Traffic-controlling device. No. 1,012,080; Dec. 19; Sp. p. 3797; Gaz. vol. 173; p. 658.
Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Relay-contact movement. No. 1,012,081; Dec. 19; Sp. p. 3799; Gaz. vol. 173; p. 658.
Howe, Winthrop K., assignor to General Railway Signal Company, Buffalo, N. Y. Relay. No. 1,012,079; Dec. 19; Sp. p. 3794; Gaz. vol. 173; p. 657.
Howell, Alexander N., Los Angeles, Cal. Cover for cooking utensils. No. 997,821; July 11; Sp. p. 2618; Gaz. vol. 168; p. 449.
Howell, David A. and W. G., New York, N. Y. Filing-folder. No. 984,482; Feb. 14; Sp. p. 2635; Gaz. vol. 163; p. 445.
Howell, Fred B., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,001,643; Aug. 29; Sp. p. 5206; Gaz. vol. 169; p. 965.
Howell, George R., Southampton, N. Y. Clothes-drier. No. 991,619; May 9; Sp. p. 1705; Gaz. vol. 166; p. 313.
Howell, John A., U. S. Navy. Combined beach-wagon and surf-boat. No. 992,775; May 23; Sp. p. 4155; Gaz. vol. 166; p. 769.
Howell, John R., Springfield, Ill. Riding-harrow. No. 1,008,915; Nov. 14; Sp. p. 2864; Gaz. vol. 172; p. 481.
Howell, John W., Newark, N. J., assignor to General Electric Company. Machine for treating filaments. No. 1,010,914; Dec. 5; Sp. p. 1143; Gaz. vol. 173; p. 180.
Howell, Joseph B., East Walpole, Mass. Drinking-fountain. No. 1,011,797; Dec. 12; Sp. p. 3145; Gaz. vol. 173; p. 525.
Howell, Roy, Kingston, Pa. Faucet. No. 999,109; July 25; Sp. p. 5486; Gaz. vol. 168; p. 976.
Howell, Walter G. (See Howell, David A. and W. G.)
Howell, William N., Bridgeport, Conn. Explosive-generator. No. 1,000,410; Aug. 15; Sp. p. 2554; Gaz. vol. 169; p. 476.
Howenstine, John L., Massillon, Ohio. Garment. No. 998,774; July 25; Sp. p. 4761; Gaz. vol. 168; p. 860.
Howes, Addie E., *et al.* (See Chase, Andrew J., assignor.)
Howes, Claude L., Boston, Mass. Valve mechanism for street-hydrants. No. 997,192; July 4; Sp. p. 1249; Gaz. vol. 168; p. 203.
Howes, Forrest E., Mattapan, Mass. Sound-transmitter. No. 1,008,340; Nov. 14; Sp. p. 1544; Gaz. vol. 172; p. 282.
Howes, Fred, Burlington, Vt. Two-cycle gasolene-engine. No. 983,369; Feb. 7; Sp. p. 243; Gaz. vol. 163; p. 41.
Howes, Willis H., Watertown, N. Y., assignor to Knowlton Brothers. Producing papers. No. 987,678; Mar. 21; Sp. p. 4049; Gaz. vol. 164; p. 717.
Howes, Willis H., assignor to Knowlton Brothers, Watertown, N. Y. Paper-making. No. 995,602; June 20; Sp. p. 3303; Gaz. vol. 167; p. 582.
Howkins, John S. (See Dobbs, East, and Howkins.)
Howland, Charles, Pontiac, Mich. Dump-wagon. No. 990,876; May 2; Sp. p. 107; Gaz. vol. 166; p. 20.
Howland, Daniel W. (See Rowell, Herbert G., assignor.)
Howland, James F. S. (See McComas and Howland.)
Howlett, Peyton L., Brownwood, Tex. Cotton tie-press. No. 988,469; Apr. 4; Sp. p. 384; Gaz. vol. 165; p. 62.
Howson, Henry, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., and Philadelphia, Pa. Manufacturing chain-links. No. 993,997; May 30; Sp. p. 6779; Gaz. vol. 166; p. 1218.
Hoxie, Vernon, Adrian, Mich. Staple forming and discharging mechanism. No. 983,370; Feb. 7; Sp. p. 244; Gaz. vol. 163; p. 41.
Hoxie, Vernon, Adrian, Mich. Gate. No. 990,134; Apr. 18; Sp. p. 3929; Gaz. vol. 165; p. 678.
Hoy, William, Surry Hills, Sydney, and J. Downes, assignors of one-third to R. W. Grierson, Redfern, Sydney, New South Wales, Australia. Smoke-consuming and fuel-economizing apparatus. No. 991,992; May 9; Sp. p. 2467; Gaz. vol. 166; p. 438.
Hoyer, Anton, Chicago, Ill. Adjustable support for smoke-shells. No. 996,717; July 4; Sp. p. 243; Gaz. vol. 168; p. 42.
Hoyer, Isaiah W., New York, N. Y. Metallic cask or barrel. No. 997,556; July 11; Sp. p. 1983; Gaz. vol. 168; p. 354.
Hoyl, L. C., *et al.* (See Hendrix, Cherry L., assignor.)
Hoyle, Charles, El Oro, Mexico, and H. A. Guess, Flat River, Mo. Classifier. No. 1,007,205; Oct. 31; Sp. p. 5863; Gaz. vol. 171; p. 1070.
Hoyle, William H., and T. Barker, Bolton, England. Elongating or drafting machine for production of recondensed yarn. No. 984,922; Feb. 21; Sp. p. 3591; Gaz. vol. 163; p. 634.
Hoynes, W. J. (See Roberts, William H., assignor.)
Hoyt, Charles S. (See Olson, Oliver, assignor.)
Hoyt, Eugene V., Decorah, Iowa. Self-grinding valve. No. 981,087; Jan. 10; Sp. p. 2085; Gaz. vol. 162; p. 344.
Hoyt, Francis R., Poplar Bluff, assignor to Dalton Adding Machine Company, St. Louis, Mo. Operating mechanism for adding-machines. No. 1,005,774; Oct. 10; Sp. p. 2628; Gaz. vol. 171; p. 453.
Hoyt, Frederick J., Redlands, Cal. Gravel or ore screen. No. 985,809; Mar. 7; Sp. p. 83; Gaz. vol. 164; p. 18.
Hoyt, Frederick J., Redlands, Cal. Amalgamator. No. 987,071; Mar. 14; Sp. p. 2741; Gaz. vol. 164; p. 474.
Hoyt, Granville W., Danbury, Conn. Cranking-lever for gas-engines. No. 1,009,068; Nov. 21; Sp. p. 3217; Gaz. vol. 172; p. 570.
Hoyt, Guy L., New York, assignor to Robert Gair Company, Brooklyn, N. Y. Bag-lifter. No. 997,193; July 4; Sp. p. 1252; Gaz. vol. 168; p. 203.
Hoyt, Guy L., New York, assignor to Robert Gair Company, Brooklyn, N. Y. Feeding mechanism. No. 998,902; July 25; Sp. p. 5041; Gaz. vol. 168; p. 905.
Hoyt, Homer J., Detroit, Mich. Adjustable chuck or spider. No. 1,008,544; Nov. 14; Sp. p. 2072; Gaz. vol. 172; p. 354.
Hoyt, Jennie, Santa Paula, Cal. Outdoor sleeping-apartment. No. 989,012; Apr. 11; Sp. p. 1514; Gaz. vol. 165; p. 266.
Hoyt Metal Company. (See Tebbetts, Lewis B., 2d, assignor.)

Alphabetical list of patentees—Continued.

Hoyt Metal Company. (See Wemple, Leland E., assignor.)
Hoyt, Walter B., Darien, assignor of one-half to G. E. Crawford, Bridgeport, Conn. Combined gas and water meter tester. No. 1,005,839; Oct. 17; Sp. p. 2778; Gaz. vol. 171; p. 506.
Hoyt, Worthington. (See Lister, John T., assignor.)
Hruby, Thomas J., Chicago, Ill. Collar. No. 1,009,416; Nov. 21; Sp. p. 4023; Gaz. vol. 172; p. 695.
Hub Machine, Welding & Contracting Co., The. (See Mathers, Ezra A., assignor.)
Huband, Fred. (See Nash, William C., assignor.)
Hubbard, Albert M., and C. H. Causey, St. Anthony, Idaho. Electrical-fuse tongs. No. 981,857; Jan. 17; Sp. p. 3747; Gaz. vol. 162; p. 633.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 980,265; Jan. 3; Sp. p. 162; Gaz. vol. 162; p. 32.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 987,300; Mar. 21; Sp. p. 3264; Gaz. vol. 164; p. 587.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 987,301; Mar. 21; Sp. p. 3268; Gaz. vol. 164; p. 588.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 1,003,746; Sept. 19; Sp. p. 3407; Gaz. vol. 170; p. 607.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 1,003,747; Sept. 19; Sp. p. 3410; Gaz. vol. 170; p. 608.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Dynamo-electric machinery. No. 1,009,310; Nov. 21; Sp. p. 3758; Gaz. vol. 172; p. 655.
Hubbard, Albert S., Belleville, N. J., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 1,009,311; Nov. 21; Sp. p. 3761; Gaz. vol. 172; p. 656.
Hubbard, Albert S., Greenwich, Conn., assignor to The Gould Storage Battery Company. Electrical system of distribution. No. 1,009,666; Nov. 21; Sp. p. 4504; Gaz. vol. 172; p. 776.
Hubbard, Albert S., Belleville, N. J., and E. Van Wagenen, New York, N. Y., assignors to Gould Storage Battery Company. Electrical system of distribution. No. 1,010,497; Dec. 5; Sp. p. 214; Gaz. vol. 173; p. 35.
Hubbard, Charles J., Kansas City, Mo. Rotary engine. No. 988,938; Apr. 4; Sp. p. 1357; Gaz. vol. 165; p. 217.
Hubbard, Charles N., Kamela, Oreg., assignor of one-half to J. G. Thomas, Walla Walla, Wash. Pile-protector. No. 992,776; May 23; Sp. p. 4159; Gaz. vol. 166; p. 769.
Hubbard, Charles N., Anacortes, assignor of one-half to J. G. Thomas, Walla Walla, Wash. Pile-protector. No. 1,002,847; Sept. 12; Sp. p. 1478; Gaz. vol. 170; p. 262.
Hubbard & Co. (See Peirce, Charles L., Jr., assignor.)
Hubbard, Eber, Chicago, Ill. Motive-fluid-supply valve. No. 999,033; July 25; Sp. p. 5351; Gaz. vol. 168; p. 952.
Hubbard, George, assignor of one-fourth to F. Humphrey, Clarington, Ohio. Floor-jack. No. 1,005,038; Oct. 3; Sp. p. 1027; Gaz. vol. 171; p. 171.
Hubbard, George R., Ypsilanti, Mich. Garment-supporter. No. 1,007,206; Oct. 31; Sp. p. 5864; Gaz. vol. 171; p. 1070.
Hubbard, Richard W., Ashtabula, Ohio. Hinge. No. 1,001,405; Aug. 22; Sp. p. 4753; Gaz. vol. 169; p. 856.
Hubbard, Stephen H., Chattanooga, Tenn. Drain-rack. No. 1,005,039; Oct. 3; Sp. p. 1029; Gaz. vol. 171; p. 171.
Hubbel, Edgar G., Jr., Boston, Mass. Tooth-brush. No. 1,013,089; Dec. 26; Sp. p. 5991; Gaz. vol. 173; p. 1048.
Hubbell, Clarence Z., Spokane, Wash. Window. No. 981,858; Jan. 17; Sp. 3748; Gaz. vol. 162; p. 633.
Hubbell, George L. (See Benze and Hubbell.)
Hubbell, Harvey, Bridgeport, Conn. Lamp-guard. No. 989,013; Apr. 11; Sp. p. 1516; Gaz. vol. 165; p. 266.
Hubbell, Harvey, Bridgeport, Conn. Reverse attachment-plug. No. 994,516; June 6; Sp. p. 851; Gaz. vol. 167; p. 143.
Hubbell, Harvey, Bridgeport, Conn. Separable attachment-plug. No. 994,517; June 6; Sp. p. 852; Gaz. vol. 167; p. 144.
Hubbell, Harvey, Bridgeport, Conn. Pull-socket. No. 994,518; June 6; Sp. p. 854; Gaz. vol. 167; p. 144.
Hubbell, Harvey, Bridgeport, Conn. Pull-socket. No. 994,588; June 6; Sp. p. 1012; Gaz. vol. 167; p. 168.
Hubbell, Harvey, Bridgeport, Conn. Nesting lamp-guard. No. 1,012,553; Dec. 19; Sp. p. 4770; Gaz. vol. 173; p. 819.
Hubbell, Harvey, Bridgeport, Conn. Detachable lamp-guard reflector. No. 1,012,554; Dec. 19; Sp. p. 4772; Gaz. vol. 173; p. 819.
Hubbs, Charles A., Brooklyn, N. Y. Safety-razor. No. 994,642; June 6; Sp. p. 1142; Gaz. vol. 167; p. 187.
Hubby, Rollin G., Cleveland, Ohio. Loose-leaf binder. No. 991,993; May 9; Sp. p. 2469; Gaz. vol. 166; p. 439.
Hube, Erich, Hamlin, N. Y. Fruit-picker. No. 1,008,470; Nov. 14; Sp. p. 1924; Gaz. vol. 172; p. 329.
Hubenbecker, Henry, Aurora, Nebr. Brooder. No. 980,266; Jan. 3; Sp. p. 164; Gaz. vol. 162; p. 32.
Huber, Adolf, assignor to Kunheim and Co., Berlin, Germany. Metallic alloy. No. 993,998; May 30; Sp. p. 6781; Gaz. vol. 166; p. 1218.
Huber, Carl, Berlin, Germany. Framework structure for balloons. No. 980,267; Jan. 3; Sp. p. 165; Gaz. vol. 162; p. 32.
Huber, Edward R., assignor of one-half to F. L. Pohlmann, St. Louis, Mo. Vapor-burner. No. 1,005,431; Oct. 10; Sp. p. 1878; Gaz. vol. 171; p. 332.
Huber, Joseph, Elma, Iowa. Concrete fence-post. No. 980,955; Jan. 10; Sp. p. 1722; Gaz. vol. 162; p. 297.
Huber Manufacturing Company, The. (See Garver, Frank, assignor.)
Huber, Werner, Sihlbrugg, Switzerland. Distributer for sand or the like. No. 1,000,004; Aug. 8; Sp. p. 1628; Gaz. vol. 169; p. 306.
Huberman, Max L., Los Angeles, Cal. Temperature indicator or alarm. No. 993,168; May 23; Sp. p. 5017; Gaz. vol. 166; p. 906.
Hubert, Conrad. (See Coleman, Clyde J., assignor.)
Hubert, Conrad. (See Volkmar, Bernhard, assignor.)
Hubert, Conrad, New York, N. Y. Portable lighter. No. 995,463; June 20; Sp. p. 2977; Gaz. vol. 167; p. 532.
Hubert, Conrad, New York, N. Y. Heat-insulating vessel. No. 1,001,850; Aug. 29; Sp. p. 5667; Gaz. vol. 169; p. 1037.
Hubert, Gustav, Grand Haven, Mich. Self-closing hinge. No. 996,411; June 27; Sp. p. 5120; Gaz. vol. 167; p. 897.
Hubert, Philip G., Los Angeles, Cal. Open fireplace. No. 987,882; Mar. 28; Sp. p. 4509; Gaz. vol. 164; p. 814.
Hubert, Theodore, assignor to C. F. Splitdorf, New York, N. Y. Terminal block for high-tension apparatus. No. 1,001,035; Aug. 22; Sp. p. 3980; Gaz. vol. 169; p. 731.
Huck, Albert, assignor to K. Bub, Nuremberg, Bavaria, Germany. Electric toy. No. 983,717; Feb. 7; Sp. p. 993; Gaz. vol. 163; p. 158.
Huckaby, James C., and T. L. McMinn, Guntersville, Ala. Well-bucket. No. 1,011,058; Dec. 5; Sp. p. 1437; Gaz. vol. 173; p. 228.
Hucke, Charles C., St. Joseph, Mo. Seal for faucets. No. 983,140; Jan. 31; Sp. p. 6487; Gaz. vol. 162; p. 1128.
Huckelbridge, Arthur C., Coldwater, Kans. Vehicle-wheel. No. 1,006,219; Oct. 17; Sp. p. 3645; Gaz. vol. 171; p. 641.
Huckins, James M. (See Egelhoff and Huckins.)
Huckle, Ernest A., Twickenham, England. Automatic advertising device. No. 1,006,480; Oct. 24; Sp. p. 4241; Gaz. vol. 171; p. 762.
Huckstep, Francis B., and E. P. Hudson, Des Moines, Iowa. Railway-rail. No. 999,453; Aug. 1; Sp. p. 514; Gaz. vol. 169; p. 90.
Huddleson, Harvey W., Washington, D. C. Pie-plate. No. 982,065; Jan. 17; Sp. p. 4228; Gaz. vol. 162; p. 705.
Hudec, John F., Cleveland, Ohio. Invalid-support. No. 1,010,261; Nov. 28; Sp. p. 5721; Gaz. vol. 172; p. 1023.
Hudson, Arthur, Tinsley Park, near Sheffield, assignor to Hudson & Bowring, Limited, Manchester, England. Life-guard for cars and other vehicles. (Reissue.) No. 13,192; Jan. 3; Sp. p. 1570; Gaz. vol. 162; p. 249.
Hudson & Bowring. (See Hudson, Arthur, assignor.) (Reissue.)
Hudson, Charles C., *et al.* (See Smith, Henry A., assignor.)
Hudson, Charles H., and J. F. Smith, Little Rock, Ark.; said Smith assignor to said Hudson. Street-car register. No. 981,565; Jan. 10; Sp. p. 3134; Gaz. vol. 162; p. 510.
Hudson, Daniel J., Perth, Ontario, Canada. Furnace. No. 996,249; June 27; Sp. p. 4718; Gaz. vol. 167; p. 839.
Hudson, Edward A., Oquawka, Ill. Skillet. No. 993,169; May 23; Sp. p. 5018; Gaz. vol. 166; p. 906.
Hudson, Edwin P. (See Huckstep and Hudson.)
Hudson, Edwin P., Des Moines, Iowa, and F. W. Mally, Garrison, Tex. Suspenders. No. 993,527; May 30; Sp. p. 5791; Gaz. vol. 166; p. 1057.
Hudson, Frank W., East St. Louis, Ill., assignor to American Steel Foundries, New York, N. Y., and Chicago, Ill. Power-rammer. No. 995,678; June 20; Sp. p. 3455; Gaz. vol. 167; p. 609.
Hudson, John F., Radium, Colo. Rail-joint. No. 982,821; Jan. 31; Sp. p. 5808; Gaz. vol. 162; p. 1022.
Hudson Motor Car Company. (See Dunham, George W., assignor.)
Hudson, Percy S., Waterloo, near Liverpool, England. Apparatus for taking soundings. No. 998,515; July 18; Sp. p. 4159; Gaz. vol. 168; p. 736.
Hudson, Richard N. (See Brice and Hudson.)
Hudson, Richard N., and E. C. Brice, Lexington, Ky. Apparatus for generating electricity by chemical means. No. 1,001,406; Aug. 22; Sp. p. 4754; Gaz. vol. 169; p. 857.
Hudson, Sarah J., London, England, assignor to Mülhens & Kropff, New York, N. Y. Cosmetic-booklet. No. 990,270; Apr. 25; Sp. p. 4248; Gaz. vol. 165; p. 758.
Hudson Stick Candy Machine Co. (See Hudson, William T., assignor.)

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Hudson, William H., Montgomery, Ala. Surgical forceps. No. 988,939; Apr. 4; Sp. p. 1359; Gaz. vol. 165; p. 217.
Hudson, William T., assignor to Hudson Stick Candy Machine Co., Atlanta, Ga. Candy-making machine. No. 998,903; July 25; Sp. p. 5043; Gaz. vol. 168; p. 906.
Hueber, Edward P., assignor to American Saw-Mill Machinery Company, Hackettstown, N. J. Track-scraper for sawmill-carriages. No. 982,679; Jan. 24; Sp. p. 5483; Gaz. vol. 162; p. 946.
Huebner, Ferdinand P., Jr., Cameron, Tex. Engine-starting device. No. 1,004,263; Sept. 26; Sp. p. 4597; Gaz. vol. 170; p. 813.
Huebner, Harry, Philadelphia, Pa. Bottle-opener. No. 994,402; June 6; Sp. p. 629; Gaz. vol. 167; p. 107.
Huebner, Johan, Chicago, Ill. Manufacturing vehicle-tires. No. 1,009,752; Nov. 28; Sp. p. 4700; Gaz. vol. 172; p. 852.
Huebner, William C., assignor of one-half to G. Bleistein, Buffalo, N. Y. Apparatus for producing photographic prints upon cylinders. No. 1,011,199; Dec. 12; Sp. p. 1793; Gaz. vol. 173; p. 313.
Huenefeld Company, The. (See Huenefeld, Walter E., assignor.)
Huenefeld, Ernst H. (See Carter, John R., assignor.)
Huenefeld, Walter E., assignor to The Huenefeld Company, Cincinnati, Ohio. Door for ovens. No. 990,983; May 2; Sp. p. 327; Gaz. vol. 166; p. 57.
Huenefeld, Walter E., assignor to The Huenefeld Company, Cincinnati, Ohio. Oven-door. No. 1,011,059; Dec. 5; Sp. p. 1439; Gaz. vol. 173; p. 228.
Huenergardt, George H., College View, Nebr. Wringer-support. No. 993,778; May 30; Sp. p. 6350; Gaz. vol. 166; p. 1145.
Huetger, Frederick J. (See Scaife and Huetger.)
Huff, Albert J. (See Dohner and Huff.)
Huff, Edward C., Blaine, Kans. Loading device. No. 999,649; Aug. 1; Sp. p. 888; Gaz. vol. 169; p. 154.
Huff, Karl R., Lineville, Iowa. Printing apparatus. No. 1,013,018; Dec. 26; Sp. p. 5847; Gaz. vol. 173; p. 1023.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Pressure-regulator for internal-combustion engines. No. 992,505; May 16; Sp. p. 3602; Gaz. vol. 166; p. 647.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Band-clutch. No. 998,516; July 18; Sp. p. 4161; Gaz. vol. 168; p. 736.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-engine. No. 1,002,695; Sept. 5; Sp. p. 1134; Gaz. vol. 170; p. 171.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,002,848; Sept. 12; Sp. p. 1480; Gaz. vol. 170; p. 262.
Huff, Russell, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,003,963; Sept. 19; Sp. p. 3886; Gaz. vol. 170; p. 682.
Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion motor. No. 1,006,095; Oct. 17; Sp. p. 3339; Gaz. vol. 171; p. 596.
Huffard, John B., Glen Ferris, W. Va., assignor to Electro Metallurgical Company, New York, N. Y. Producing low-carbon metals and alloys. No. 992,422; May 16; Sp. p. 3433; Gaz. vol. 166; p. 618.
Huffard, John B., Glen Ferris, W. Va., assignor to Electro Metallurgical Company, New York, N. Y. Producing titanium alloys. No. 992,423; May 16; Sp. p. 3434; Gaz. vol. 166; p. 618.
Huffman, Claud, Versailles, Mo. Switch. No. 989,364; Apr. 11; Sp. p. 2270; Gaz. vol. 165; p. 385.
Huffman, Howard H., assignor of one-half to A. H. Sublett, Roanoke, Va. Salt and pepper shaker. No. 993,999; May 30; Sp. p. 6782; Gaz. vol. 166; p. 1218.
Huffman, John O., and E. J. Lauffer, assignors to The White Sewing Machine Company, Cleveland, Ohio. Reciprocating-shuttle sewing-machine. No. 995,539; June 20; Sp. p. 3142; Gaz. vol. 167; p. 559.
Huffman, Orla L., Albany, Ind. Farm-gate. No. 1,012,357; Dec. 19; Sp. p. 4393; Gaz. vol. 173; p. 752.
Huffman, Thadeus E., Royston, Tex. Sash balance and lock. No. 989,710; Apr. 18; Sp. p. 3035; Gaz. vol. 165; p. 534.
Hug, Ernst L. (See Gerster and Hug.)
Hugg, William H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,005,645; Oct. 10; Sp. p. 2372; Gaz. vol. 171; p. 407.
Hugg, William H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,005,840; Oct. 17; Sp. p. 2779; Gaz. vol. 171; p. 506.
Huggins, Alfred, Kings Norton, and W. J. Parker, Moseley, England. Carbureter. No. 982,428; Jan. 24; Sp. p. 4973; Gaz. vol. 162; p. 860.
Huggins, Leroy A., assignor of one-half to E. Galezio, Chicago, Ill. Multicylinder oscillating steam-engine. No. 992,424; May 16; Sp. p. 3435; Gaz. vol. 166; p. 618.
Huggins, Mark. (See Weber and Huggins.)
Hughes, Albert J., St. Paul, Minn. Mail catching and delivering device. No. 1,003,461; Sept. 19; Sp. p. 2776; Gaz. vol. 170; p. 508.
Hughes, Arthur D., Laketon, Ind. Gyrating screen. No. 999,563; Aug. 1; Sp. p. 737; Gaz. vol. 169; p. 126.
Hughes, Charles A., Terre Haute, Ind. Arc-lamp. No. 980,639; Jan. 3; Sp. p. 982; Gaz. vol. 162; p. 161.
Hughes, Charles A., Old Concord, Pa. Hay-press. No. 1,006,220; Oct. 17; Sp. p. 3646; Gaz. vol. 171; p. 642.
Hughes, Davydd C., assignor to Rogers Addresser Company, Chicago, Ill. Type. No. 997,390; July 11; Sp. p. 1661; Gaz. vol. 168; p. 301.
Hughes, Frank, Clinton, Wis. Bowling-pin spotter. No. 996,250; June 27; Sp. p. 4719; Gaz. vol. 167; p. 839.
Hughes, Frank E., Lucerne, Colo. Automatic switch. No. 994,161; June 6; Sp. p. 119; Gaz. vol. 167; p. 21.
Hughes, Frederick G. (See Meigs, Hughes, and Stout.)
Hughes, George W. (See Thexton, Henry A., assignor.)
Hughes, Gibbard R., Stockport, England. Reservoir-penholder. No. 994,000; May 30; Sp. p. 6784; Gaz. vol. 166; p. 1218.
Hughes, Harry H., assignor of one-half to F. X. Heer and A. J. Eisenmayer, Springfield, Mo. Furnace for volatilizing zinc from its ores. No. 980,640; Jan. 3; Sp. p. 984; Gaz. vol. 162; p. 161.
Hughes, Harry H., assignor of one-half to F. X. Heer and A. J. Eisenmayer, Springfield, Mo. Treating zinc ores for the recovery of metallic zinc therefrom. No. 980,641; Jan. 3; Sp. p. 987; Gaz. vol. 162; p. 161.
Hughes, Howard R., Houston, Tex. Roller-drill. No. 1,010,143; Nov. 28; Sp. p. 5495; Gaz. vol. 172; p. 984.
Hughes, Howard R., Houston, Tex. Boring-drill. No. 1,010,144; Nov. 28; Sp. p. 5499; Gaz. vol. 172; p. 985.
Hughes, Howard R., Houston, Tex. Roller-drill. No. 1,010,406; Nov. 28; Sp. p. 6041; Gaz. vol. 172; p. 1070.
Hughes, Hugh T., assignor of one-half to S. Hitchings, Sharon, Pa. Automatic rail-joint lock. No. 985,810; Mar. 7; Sp. p. 84; Gaz. vol. 164; p. 18.
Hughes, Isaac L., Youngstown, Ohio. Apparatus for scraping metal hoops. No. 988,712; Apr. 4; Sp. p. 919; Gaz. vol. 165; p. 145.
Hughes, J. W. (See Wade, Harry R., assignor.)
Hughes, James F., Newburg, Mo. Shade-bracket. No. 1,002,403; Sept. 5; Sp. p. 516; Gaz. vol. 170; p. 72.
Hughes, John, Baker, Mont., assignor of one-half to H. Tracy, Lake Andes, S. D. Aeroplane. No. 991,620; May 9; Sp. p. 1707; Gaz. vol. 166; p. 314.
Hughes, John E., San Francisco, Cal. Lubricator. No. 984,373; Feb. 14; Sp. p. 2426; Gaz. vol. 163; p. 410.
Hughes, John E., Chicago, Ill. Tie holder and press. No. 1,004,264; Sept. 26; Sp. p. 4599; Gaz. vol. 170; p. 813.
Hughes, John E., Mexico, Mexico. Launder. No. 1,008,153; Nov. 7; Sp. p. 1076; Gaz. vol. 172; p. 176.
Hughes, Joseph D., assignor to R. B. Wilson, Chicago, Ill. Loose-leaf binder. No. 1,011,346; Dec. 12; Sp. p. 2145; Gaz. vol. 173; p. 366.
Hughes, Louis S., assignor of one-half to himself and one-half to Picher Lead Company, Joplin, Mo. Making lead salts. No. 1,008,412; Nov. 14; Sp. p. 1771; Gaz. vol. 172; p. 308.
Hughes, Robert O., assignor of one-half to B. Williams, Mankato, Minn. Butter-cutting machine. No. 1,007,357; Oct. 31; Sp. p. 6161; Gaz. vol. 171; p. 1124.
Hughes, Roy Y., and L. J. Hoffmann, Aberdeen, S. D. Automatic fire-detector. No. 982,822; Jan. 31; Sp. p. 5811; Gaz. vol. 162; p. 1022.
Hughes, Samuel, Lindsay, Ontario, Canada. High-pressure rotary pump. No. 1,012,642; Dec. 26; Sp. p. 4980; Gaz. vol. 173; p. 894.
Hughes, Thomas, New Orleans, La. Valve-controlling mechanism. No. 985,414; Feb. 28; Sp. p. 4675; Gaz. vol. 163; p. 834.
Hughes, Thomas, and C. J. Walsh, Boston, Mass. Arch-supporter. No. 984,140; Feb. 14; Sp. p. 1918; Gaz. vol. 163; p. 330.
Hughes, William. (See Terzian and Hughes.)
Hughes, William, Jersey City, N. J. Holding device for toilet-cases. No. 996,766; July 4; Sp. p. 336; Gaz. vol. 168; p. 57.
Hughes, William, Taunton, Mass. Eyelet-setting machine. No. 1,008,036; Nov. 7; Sp. p. 842; Gaz. vol. 172; p. 134.
Hughes, William B., Cleveland, Ohio. Valve mechanism. No. 1,000,173; Aug. 8; Sp. p. 2029; Gaz. vol. 169; p. 363.
Hughes, William D., Williamstown, Pa. Non-refillable box. No. 999,454; Aug. 1; Sp. p. 515; Gaz. vol. 169; p. 90.
Hughes, William E. (See King, Hughes, and Hall.)
Hughes, William F., Murphysboro, Ill. Wrench. No. 991,994; May 9; Sp. p. 2472; Gaz. vol. 166; p. 439.
Hughson, Charles E., Milwaukee, Wis. Gearing. No. 1,008,341; Nov. 14; Sp. p. 1548; Gaz. vol. 172; p. 283.
Hugill, Edmund, *et al.* (See Peterson, Gus A., assignor.)
Hugill, Edmund, A. S. Gould, and G. A. Peterson, Clarksburg, W. Va. Gas-alarm. No. 980,785; Jan. 3; Sp. p. 1301; Gaz. vol. 162; p. 209.
Hugo, Charles, assignor to M. J. Whittall, Worcester, Mass. Pattern mechanism for carpet-looms. No. 981,762; Jan. 17; Sp. p. 3535; Gaz. vol. 162; p. 599.
Hugunin, Frank W., Waseca, Minn. Grain-door for cars. No. 1,001,036; Aug. 22; Sp. p. 3981; Gaz. vol. 169; p. 732.
Huillard, Alfred, Paris, France. Treatment of fabrics. No. 1,008,413; Nov. 14; Sp. p. 1772; Gaz. vol. 172; p. 308.
Hulbert, Edwin F., South Norwalk, Conn. Display-carrier. No. 997,621; July 11; Sp. p. 2134; Gaz. vol. 168; p. 379.

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Hulbert, Edwin F., assignor to Sealshipt Oyster System, South Norwalk, Conn. Preserving bivalves. No. 989,154; Apr. 11; Sp. p. 1818; Gaz. vol. 165; p. 315.
Hulbert, Edwin F., South Norwalk, Conn., assignor to Sealshipt Oyster System. Oyster-dipper. No. 1,005,708; Oct. 10; Sp. p. 2501; Gaz. vol. 171; p. 429.
Hulder, Joseph P., New York, N. Y., assignor to Ludwig & Company. Controller-bellows for pneumatic musical instruments. No. 991,851; May 9; Sp. p. 2189; Gaz. vol. 166; p. 390.
Hulder, Joseph P., New York, N. Y., assignor to Ludwig & Company. Expression device for pianos. No. 1,000,174; Aug. 8; Sp. p. 2032; Gaz. vol. 169; p. 364.
Hulett, George H., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Loading machinery. No. 1,010,766; Dec. 5; Sp. p. 827; Gaz. vol. 173; p. 129.
Hulett, George H., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Loading and trimming mechanism for boats. No. 1,010,767; Dec. 5; Sp. p. 829; Gaz. vol. 173; p. 129.
Hulett, James, New York, N. Y. Four-in-hand-tie former and holder. No. 1,004,265; Sept. 26; Sp. p. 4600; Gaz. vol. 170; p. 813.
Hulfish, David S., assignor to McMeen & Miller, Chicago, Ill. Bimetallic rivet. No. 980,420; Jan. 3; Sp. p. 504; Gaz. vol. 162; p. 86.
Huling, Harry R., Schuylkill Haven, Pa. Tool-holder. No. 995,603; June 20; Sp. p. 3305; Gaz. vol. 167; p. 582.
Hull, David C., assignor to United States Whip Company. Westfield, Mass. Whip. No. 983,057; Jan. 31; Sp. p. 6342; Gaz. vol. 162; p. 1102.
Hull, Edgar L., assignor to Waltham Watch Company, Waltham, Mass. Producing thin enameled dials. No. 994,162; June 6; Sp. p. 122; Gaz. vol. 167; p. 22.
Hull, Foster J., assignor to The Thomas W. Pangborn Company, New York, N. Y. Sand-drier. No. 1,004,029; Sept. 26; Sp. p. 4053; Gaz. vol. 170; p. 731.
Hull, Frank and G. P., Constantine, Mich. Mechanical cranking device for engines. No. 995,464; June 20; Sp. p. 2979; Gaz. vol. 167; p. 532.
Hull, George P. (See Hull, Frank and G. P.)
Hull, Horace, Denver, Colo. Electric switch. No. 986,714; Mar. 14; Sp. p. 2031; Gaz. vol. 164; p. 356.
Hull, Horace E., assignor to A. V. Moon, Lansing, Mich. Boring-tool holder. No. 984,000; Feb. 14; Sp. p. 1641; Gaz. vol. 163; p. 283.
Hull, John B., Williamstown, Mass. Dental forceps. No. 991,313; May 2; Sp. p. 1052; Gaz. vol. 166; p. 176.
Hull Manufacturing Company, The. (See Johnson, William C., assignor.)
Hull, Robert W., Hingham, Mass. Steam-cylinder for cloth sponging and finishing machines. No. 980,268; Jan. 3; Sp. p. 166; Gaz. vol. 162; p. 33.
Hull, Robert W., Hingham, Mass. Cloth pressing and finishing iron. No. 1,001,594; Aug. 22; Sp. p. 5099; Gaz. vol. 169; p. 918.
Hull, William H., G. L. Cutler, and A. A. Bauman, Gregory, S. D. Clip attachment for paper-rolls. No. 997,822; July 11; Sp. p. 2619; Gaz. vol. 168; p. 450.
Hull, William J., assignor of one-eighth to W. C. Maloz, one-eighth to D. H. Maloz, and one-fourth to H. J. Williams, Patterson, La. Band-saw guide. No. 999,500; Aug. 1; Sp. p. 603; Gaz. vol. 169; p. 104.
Hulme, George, and P. H. Rowley, Providence, R. I. Shuttle. No. 1,011,060; Dec. 5; Sp. p. 1440; Gaz. vol. 173; p. 229.
Hulme, John W., Jersey City, N. J. Automatic safety-lock for doors. No. 990,877; May 2; Sp. p. 109; Gaz. vol. 166; p. 20.
Hulsberg & Cie. Gesellschaft mit beschränkter Haftung. (See Rüping, Max, assignor.)
Hulse, George E. (See Allbee and Hulse.)
Hulse, George E., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Device for filling water-circulating systems. No. 993,376; May 30; Sp. p. 5463; Gaz. vol. 166; p. 1006.
Hulse, Thomas B., Winsford, England. Smoke-consuming furnace. No. 1,008,154; Nov. 7; Sp. p. 1077; Gaz. vol. 172; p. 176.
Hülsenberg, Heinrich A., Freiberg, Saxony, Germany. Means for regulating the compensation of the axial thrust in centrifugal pumps or blasts. No. 981,763; Jan. 17; Sp. p. 3537; Gaz. vol. 162; p. 599.
Hulsmann, Frederic, New York, N. Y. Screw-driving. No. 1,007,107; Oct. 31; Sp. p. 5628; Gaz. vol. 171; p. 1034.
Hulson, Arthur W., Keokuk, Iowa. Grate. No. 998,247; July 18; Sp. p. 3576; Gaz. vol. 168; p. 641.
Hulst, George P., Omaha, Nebr. Refining and desilverizing lead. No. 1,001,525; Aug. 22; Sp. p. 4951; Gaz. vol. 169; p. 895.
Hult, Carl A. (See Åberg, Oscar G., assignor.)
Hult, Carl A. and O. W., Stockholm, Sweden. Means for feeding liquid into centrifugal liquid-separators. No. 996,586; June 27; Sp. p. 5457; Gaz. vol. 167; p. 954.
Hult, Oscar W. (See Hult, Carl A. and O. W.)
Hultgren, Charles. (See Karpen and Hultgren.)
Hultgren, William H., Philadelphia, Pa. Lubricating device. No. 1,010,498; Dec. 5; Sp. p. 224; Gaz. vol. 173; p. 36.
Hultin, Adolph R., Prosper, Oreg. Saw-handle. No. 982,003; Jan. 17; Sp. p. 4103; Gaz. vol. 162; p. 684.
Hultin, Charles A., Seattle, Wash. Dough divider and scaler. No. 987,231; Mar. 21; Sp. p. 3107; Gaz. vol. 164; p. 563.
Humason, Granville A., Shreveport, La., and E. F. Odell, Greenville, Tex.; said Humason assignor of one-half to J. W. Atkins, Shreveport, La. Rail-bond. No. 987,072; Mar. 14; Sp. p. 2744; Gaz. vol. 164; p. 474.
Humberger, Gill, Lemoore, Cal. Harrow. No. 1,009,667; Nov. 21; Sp. p. 4507; Gaz. vol. 172; p. 776.
Hume, John T., Newton, Iowa. Power-transmitting mechanism. No. 992,131; May 9; Sp. p. 2737; Gaz. vol. 166; p. 484.
Humeston, Frederick L., New Haven, Conn., assignor to The Greist Manufacturing Company. Sewing-machine ruffler. No. 1,011,957; Dec. 19; Sp. p. 3503; Gaz. vol. 173; p. 613.
Humm, George H., Walthamstow, England. Reversible turbine. No. 996,486; June 27; Sp. p. 5258; Gaz. vol. 167; p. 922.
Humm, Joseph A., Elyria, Ohio. Device for cleaning lawns and streets. No. 998,517; July 18; Sp. p. 4164; Gaz. vol. 168; p. 737.
Hummel, John J., Spokane, Wash. Type-setting machine. No. 980,957; Jan. 10; Sp. p. 1725; Gaz. vol. 162; p. 298.
Hummel, John J., Spokane, Wash. Magazine for type-setting machines. No. 997,130; July 4; Sp. p. 1119; Gaz. vol. 168; p. 181.
Hummel, John J., Spokane, Wash. Operating-keyboard for type-setting machines. No. 997,131; July 4; Sp. p. 1122; Gaz. vol. 168; p. 182.
Humpal, Frank, Chicago, Ill. Minnow trap and receptacle. No. 1,011,347; Dec. 12; Sp. p. 2149; Gaz. vol. 173; p. 367.
Humphery and Liwentaal Limited. (See Liwentaal, Alexander, assignor.)
Humphrey, Alfred H., New York, N. Y. Gas-lamp. No. 985,261; Feb. 28; Sp. p. 4340; Gaz. vol. 163; p. 784.
Humphrey, Anthony B., Mayhews, Cal. Fruit-packing stand. No. 1,010,262; Nov. 28; Sp. p. 5722; Gaz. vol. 172; p. 1023.
Humphrey, David S., Buffalo, N. Y. Conforming-gage. No. 1,008,826; Nov. 14; Sp. p. 2695; Gaz. vol. 172; p. 453.
Humphrey, Edwin H., Corry, Pa., assignor to J. M. Baird, Hartford City, Ind. Milk-can. No. 983,232; Jan. 31; Sp. p. 6678; Gaz. vol. 162; p. 1160.
Humphrey, Edwin H., Corry, Pa., assignor to J. M. Baird, Hartford City, Ind. Milk-can. No. 983,446; Feb. 7; Sp. p. 408; Gaz. vol. 163; p. 66.
Humphrey, Ernest N. (See Smith and Humphrey.)
Humphrey, Ernest N., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Buckle. No. 983,718; Feb. 7; Sp. p. 995; Gaz. vol. 163; p. 158.
Humphrey, Ernest N., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Cast-off for suspender-ends. No. 986,060; Mar. 7; Sp. p. 652; Gaz. vol. 164; p. 103.
Humphrey, Ernest N., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Buckle. No. 991,995; May 9; Sp. p. 2473; Gaz. vol. 166; p. 439.
Humphrey, Ernest N., assignor to Traut & Hine Manufacturing Company, New Britain, Conn. Garter-fastening. No. 998,518; July 18; Sp. p. 4168; Gaz. vol. 168; p. 737.
Humphrey, Ernest N., assignor to Traut and Hine Manufacturing Company, New Britain, Conn. Razor-strop holder. No. 1,003,964; Sept. 19; Sp. p. 3887; Gaz. vol. 170; p. 682.
Humphrey, Ernest N., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Folding stand. No. 1,008,545; Nov. 14; Sp. p. 2073; Gaz. vol. 172; p. 355.
Humphrey, Ernest N., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Slide-buckle. No. 1,012,082; Dec. 19; Sp. p. 3803; Gaz. vol. 173; p. 659.
Humphrey, Frank. (See Hubbard, George, assignor.)
Humphrey, George A., New York, N. Y. Container. No. 1,007,872; Nov. 7; Sp. p. 519; Gaz. vol. 172; p. 79.
Humphrey, George E., Medford, Oreg. Railway-tie. No. 1,001,407; Aug. 22; Sp. p. 4756; Gaz. vol. 169; p. 857.
Humphrey, George S., *et al.*, executors. (See Hunt, Charles W.)
Humphrey, Herbert S., Kalamazoo, Mich. Water-heater. No. 998,004; July 18; Sp. p. 3046; Gaz. vol. 168; p. 555.
Humphrey, Herbert S., Kalamazoo, Mich. Water-heater. No. 1,006,556; Oct. 24; Sp. p. 4433; Gaz. vol. 171; p. 791.
Humphrey, Herbert S., Kalamazoo, Mich. Valve mechanism. No. 1,007,699; Nov. 7; Sp. p. 100; Gaz. vol. 172; p. 16.
Humphrey, Robert S. (See Spink and Miller, assignors.)
Humphreys, Charles W., New York, N. Y. Lighted-cigar holder. No. 982,429; Jan. 24; Sp. p. 4976; Gaz. vol. 162; p. 860.

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Humphreys, Ira B., Denver, Colo. Rotary pump. No. 991,314; May 2; Sp. p. 1053; Gaz. vol. 166; p. 176.
Humphreys, Ira B., Denver, Colo. Rotary explosion-engine. No. 1,003,263; Sept. 12; Sp. p. 2378; Gaz. vol. 170; p. 408.
Humphreys, Thomas H., Kissee Mills, Mo. Speculum. No. 997,823; July 11; Sp. p. 2620; Gaz. vol. 168; p. 450.
Humphries, Albert E., Weybridge, England. Milling flour. No. 983,719; Feb. 7; Sp. p. 996; Gaz. vol. 163; p. 158.
Humphries, Albert E., Weybridge, England. Milling flour. No. 983,720; Feb. 7; Sp. p. 997; Gaz. vol. 163; p. 158.
Humphries, George W., and J. B. Ramsey, Cleveland, Tenn. Flask-hinge. No. 999,110; July 25; Sp. p. 5487; Gaz. vol. 168; p. 977.
Humphries, Joseph T., Oakville, Tex. Wrench. No. 980,786; Jan. 3; Sp. p. 1303; Gaz. vol. 162; p. 209.
Humphris, James, Johannesburg, Transvaal. Aerial machine. No. 983,233; Jan. 31; Sp. p. 6679; Gaz. vol. 162; p. 1160.
Huneke, John, Chicago, Ill., assignor to Cox Multi-Mailer Company, Augusta, Me. Clutch. No. 998,615; July 25; Sp. p. 4383; Gaz. vol. 168; p. 803.
Hungerford, Henry H. (See Peters and Hungerford.)
Hungerford, Henry H., assignor to F. M. Peters, Chicago, Ill. Zwieback-cutter. No. 982,366; Jan. 24; Sp. p. 4848; Gaz. vol. 162; p. 839.
Hungerford, Henry H., assignor to F. M. Peters, Chicago, Ill. Rack for boxes. No. 983,824; Feb. 7; Sp. p. 1218; Gaz. vol. 163; p. 194.
Hunkele, Frederick P., McKeesport, Pa. Rail-joint. No. 997,132; July 4; Sp. p. 1125; Gaz. vol. 168; p. 182.
Hunnicutt, Charles, Wilmington, Ohio. Seed-corn grader. No. 983,495; Feb. 7; Sp. p. 507; Gaz. vol. 163; p. 81.
Hunnicutt, Charles, Wilmington, Ohio. Seed-corn grader. No. 1,009,069; Nov. 21; Sp. p. 3218; Gaz. vol. 172; p. 571.
Hunnicutt, Charles, Wilmington, assignor to The Charles Hunnicutt Company, Clinton county, Ohio. Corn-grader. No. 989,976; Apr. 18; Sp. p. 3617; Gaz. vol. 165; p. 627.
Hunold, Ernest, Providence, R. I. Razor-strop. No. 980,269; Jan. 3; Sp. p. 168; Gaz. vol. 162; p. 33.
Hunso Machinery Company. (See Soars, Robert D., assignor.)
Hunstable, Edward E., Muskogee, Okla. Street-register. No. 986,061; Mar. 7; Sp. p. 653; Gaz. vol. 164; p. 103.
Hunt, Albert P. (See MacLachlan, John C., assignor.)
Hunt, Arthur J. (See Clabaugh, Harry G., assignor.)
Hunt, Carl, Indianapolis, Ind. Engine-starter. No. 990,135; Apr. 18; Sp. p. 3932; Gaz. vol. 165; p. 678.
Hunt, Cecil S., Detroit, Mich. Safety device for combs. No. 1,003,264; Sept. 12; Sp. p. 2380; Gaz. vol. 170; p. 409.
Hunt, Charles A., Newburgh, N. Y. Sash-lock. No. 994,001; May 30; Sp. p. 6786; Gaz. vol. 166; p. 1219.
Hunt, Charles W., *et al.*, executors. (See Hunt, Charles W.)
Hunt, Charles W., deceased, New York, N. Y.; K. H. and C. W. Hunt and G. S. Humphrey, executors. Apparatus for facilitating the distribution of express matter, &c. No. 1,004,687; Oct. 3; Sp. p. 296; Gaz. vol. 171; p. 50.
Hunt, Charles W., deceased, New York, N. Y.; K. H. and C. W. Hunt and G. S. Humphrey, executors. Apparatus for facilitating the distribution of express matter, &c. No. 1,004,688; Oct. 3; Sp. p. 298; Gaz. vol. 171; p. 50.
Hunt Engineering Company. (See Woods and Boyd, assignors.)
Hunt, Harry A., Glen Gardner, assignor to Taylor Iron & Steel Company, High Bridge, N. J. Crushing-head for ore and rock crushers. No. 1,009,520; Nov. 21; Sp. p. 4238; Gaz. vol. 172; p. 730.
Hunt, Harry V., Jersey City, N. J. Governor. No. 1,000,005; Aug. 8; Sp. p. 1631; Gaz. vol. 169; p. 306.
Hunt, Helm, Ferris & Company. (See Ferris, Henry L., assignor.)
Hunt, Helm, Ferris & Company. (See Ferris, Henry L. and H. J., assignors.)
Hunt, Helm, Ferris & Company. (See Minshull, Robert, assignor.)
Hunt, Helm, Ferris & Company. (See Stevenson, Charles M., assignor.)
Hunt, Henry. (See Jackson and Hunt.)
Hunt, Henry J., Davenport, Iowa. Pipe-die. No. 1,011,798; Dec. 12; Sp. p. 3146; Gaz. vol. 173; p. 525.
Hunt, Katharine H., *et al.*, executors. (See Hunt, Charles W.)
Hunt, Nelson W., Lynn, Mass. Machine for making washers. No. 1,011,434; Dec. 12; Sp. p. 2316; Gaz. vol. 173; p. 396.
Hunt, Osman E., Eagle Grove, Iowa. Truing-machine. No. 991,996; May 9; Sp. p. 2474; Gaz. vol. 166; p. 439.
Hunt, Osman E., Eagle Grove, Iowa. Car-mover. No. 991,997; May 9; Sp. p. 2476; Gaz. vol. 166; p. 440.
Hunt, Ozello R. (See Van Middlesworth, William, assignor.)
Hunt, Thomas, Atherstone, England. Dust-collector. No. 993,448; May 30; Sp. p. 5613; Gaz. vol. 166; p. 1029.
Hunt, Thomas E., Blue Island, assignor to Quaker Manufacturing Company, Chicago, Ill. Time-regulator. No. 985,593; Feb. 28; Sp. p. 5084; Gaz. vol. 163; p. 899.
Hunt, Thomas J., and M. E. Walker, Alameda, Cal. Submarine mine. No. 984,674; Feb. 21; Sp. p. 3086; Gaz. vol. 163; p. 547.
Hunt, Wilfred, Glasgow, Scotland, and W. Taylor, Leicester, England. Means for regulating the speed of photographic shutters. No. 1,009,521; Nov. 21; Sp. p. 4240; Gaz. vol. 172; p. 730.
Hunt, William H., New York, N. Y. Elevating apparatus. No. 1,012,203; Dec. 19; Sp. p. 4073; Gaz. vol. 173; p. 699.
Hunt, William H., and R. C. Vroom, San Diego, Cal. Headlight for automobiles. No. 982,066; Jan. 17; Sp. p. 4230; Gaz. vol. 162; p. 705.
Hunt, Wilson P., Moline, Ill. Gear-hobbing machine. No. 1,012,643; Dec. 26; Sp. p. 4980; Gaz. vol. 173; p. 895.
Hunt, Wilson P., Moline, Ill., and R. B. Weaver, Cleveland, Ohio, assignors to Reynolds Machine Company, Rock Island, Ill. Feeding mechanism for automatic screw-driving machines. No. 1,003,462; Sept. 19; Sp. p. 2779; Gaz. vol. 170; p. 509.
Hunter, Alfred J., Bayonne, N. J. Power armature-bander. No. 996,019; June 20; Sp. p. 4183; Gaz. vol. 167; p. 727.
Hunter, Archie G., Glazier, Tex. Churn. No. 1,001,851; Aug. 29; Sp. p. 5668; Gaz. vol. 169; p. 1037.
Hunter Arms Company, The. (See Lewis, George S., assignor.)
Hunter, Arthur G., Dorchester, Tex. Wrench. No. 999,167; July 25; Sp. p. 5591; Gaz. vol. 168; p. 994.
Hunter, David, Seattle, Wash. Clutch for paper-rolls. No. 999,191; July 25; Sp. p. 5634; Gaz. vol. 168; p. 1002.
Hunter, David C. (See Miner, Robert B., assignor.)
Hunter, David E., Cambridge, assignor to Library Bureau, Boston, Mass. Joint for panels and the like. No. 986,292; Mar. 7; Sp. p. 1109; Gaz. vol. 164; p. 179.
Hunter, Elijah, Boston, Mass. Speed-controlling means. No. 998,005; July 18; Sp. p. 3048; Gaz. vol. 168; p. 555.
Hunter, Florence, Portland, Oreg. Garment-supporter. No. 989,606; Apr. 18; Sp. p. 2828; Gaz. vol. 165; p. 500.
Hunter, Frederick G., Moncton, New Brunswick, Canada. Flexible stay-bolt. No. 1,008,717; Nov. 14; Sp. p. 2458; Gaz. vol. 172; p. 416.
Hunter, George B., Washington, D. C. Combined lunch pail and heater. No. 982,273; Jan. 24; Sp. p. 4637; Gaz. vol. 162; p. 805.
Hunter, Harold W., Blaine, Wash. Adjustable suit-hanger. No. 1,009,522; Nov. 21; Sp. p. 4244; Gaz. vol. 172; p. 731.
Hunter, Harry C., assignor to L. Hunter, St. Louis, Mo. Locking device for safe and vault doors. No. 995,007; June 13; Sp. p. 2008; Gaz. vol. 167; p. 352.
Hunter, Harry D., assignor to The American Drill Company, Marion, Ind. Double-disk furrow-opener. No. 990,654; Apr. 25; Sp. p. 5144; Gaz. vol. 165; p. 892.
Hunter, Henry A., Curry Run, Pa. Can-opener. No. 1,007,285; Oct. 31; Sp. p. 6019; Gaz. vol. 171; p. 1098.
Hunter, James A. (See Brison and Hunter.)
Hunter, James B., Hamilton, and C. H. Chambers, Dayton, Ohio. Door. No. 1,011,958; Dec. 19; Sp. p. 3505; Gaz. vol. 173; p. 614.
Hunter, John, *et al.* (See Schinscholl, Erich, assignor.)
Hunter, John R., *et al.* (See Barrett, Julious E., assignor.)
Hunter, John R., Kennett, Cal. Safety-stirrup. No. 985,346; Feb. 28; Sp. p. 4516; Gaz. vol. 163; p. 812.
Hunter, John S. (See Raymer, Levi L., assignor.)
Hunter, John S., Lamar, Colo. Device for obviating the generation of nicotin. No. 980,270; Jan. 3; Sp. p. 169; Gaz. vol. 162; p. 33.
Hunter, Joseph W., Garrett, Tex. Machine for sharpening cutlery. No. 1,007,951; Nov. 7; Sp. p. 687; Gaz. vol. 172; p. 106.
Hunter, Lalla. (See Hunter, Harry C., assignor.)
Hunter, Marcus C. I. (See Adams and Hunter.)
Hunter, Timothy, Killbuck, Ohio. Rail-joint. No. 990,136; Apr. 18; Sp. p. 3934; Gaz. vol. 165; p. 679.
Hunter, Walter F., Brookfield, Mo. Vertically-adjustable hinge. No. 983,553; Feb. 7; Sp. p. 661; Gaz. vol. 163; p. 101.
Hunter, Warren N., assignor to Union Special Machine Company, Chicago, Ill. Bag. No. 995,869; June 20; Sp. p. 3893; Gaz. vol. 167; p. 676.
Hunter, William A., Terre Haute, Ind. Storm-top for buggies. No. 983,371; Feb. 7; Sp. p. 247; Gaz. vol. 163; p. 42.
Hunter, William A., Terre Haute, Ind. Storm-top for vehicles. (Reissue.) No. 13,235; May 9; Sp. p. 2757; Gaz. vol. 166; p. 488.
Hunter, William F., assignor of one-half to H. F. Brizard, Arcata, Cal. Motor-boat. No. 1,010,053; Nov. 28; Sp. p. 5325; Gaz. vol. 172; p. 954.
Hunter, William N., Detroit, Mich. Brush-machine. No. 995,788; June 20; Sp. p. 3712; Gaz. vol. 167; p. 647.
Hunter, William R., Cleveland, Ohio. Lath-holder. No. 992,666; May 16; Sp. p. 3932; Gaz. vol. 166; p. 701.

Hunting, Irving A., assignor to The Potter Printing Press Company, Plainfield, N. J. Printing or other machine. No. 998,340; July 18; Sp. p. 3808; Gaz. vol. 168; p. 677.
Huntington, Joseph. (See Dennis and Huntington.)
Huntington, Robert, Boston, Mass. Life-boat-handling apparatus. No. 1,009,753; Nov. 28; Sp. p. 4702; Gaz. vol. 172; p. 853.
Huntley, Albert, Sebastopol, Cal. Emergency-brake-operating device. No. 998,519; July 18; Sp. p. 4169; Gaz. vol. 168; p. 737.
Huntley Manufacturing Company. (See Morse, Theodore F., assignor.)
Huntosh, Orick N., and E. E. Bonn, Seattle, Wash. Farm-gate. No. 1,002,404; Sept. 5; Sp. p. 517; Gaz. vol. 170; p. 73.
Huot, Phillip J., Kankakee, Ill. Car-door. No. 988,100; Mar. 28; Sp. p. 5015; Gaz. vol. 164; p. 889.
Hupfeld Aktiengesellschaft, Ludwig. (See Frömsdorf, Robert, assignor.)
Hupner, Charles F., assignor of one-half to E. T. Wilson, San Francisco, Cal. Chaff-separator. No. 1,003,138; Sept. 12; Sp. p. 2098; Gaz. vol. 170; p. 361.
Hupp Motor Car Company. (See Nelson, Emil A., assignor.)
Huppert, John B., Pittsburgh, Pa. Steam-table. No. 1,011,061; Dec. 5; Sp. p. 1441; Gaz. vol. 173; p. 229.
Hurd, Albert F., Berkeley, Cal. Gageable dip-cup for ink-wells. No. 999,168; July 25; Sp. p. 5592; Gaz. vol. 168; p. 995.
Hurd, Benjamin. (See Le Pontois, Leon J., assignor.)
Hurd, Benjamin, Nutley, N. J. Ink-writing telegraph-register. No. 1,000,601; Aug. 15; Sp. p. 2988; Gaz. vol. 169; p. 546.
Hurd, Benjamin W., Bridgeport, assignor of two-thirds to F. C. Rockwell, West Hartford, Conn. Paper-fastening punch. No. 980,787; Jan. 3; Sp. p. 1304; Gaz. vol. 162; p. 209.
Hurd, Charles F., Keysor, Colo. Wire-stretcher. No. 1,009,247; Nov. 21; Sp. p. 3623; Gaz. vol. 172; p. 632.
Hurd, Henry L., Boston, Mass. Coal-tower-trolley-boom swinger. No. 981,268; Jan. 10; Sp. p. 2513; Gaz. vol. 162; p. 409.
Hurd, Marion N., *et al.* (See Richardson, Ernest, assignor.)
Hurd, Norman B. (See Voight and Hurd.)
Hurd, Norman B., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock-strike. No. 1,005,841; Oct. 17; Sp. p. 2782; Gaz. vol. 171; p. 507.
Hurff, George M., Peoria, Ill. Hanger for ear-corn. No. 981,269; Jan. 10; Sp. p. 2518; Gaz. vol. 162; p. 410.
Hurff, George M., Peoria, Ill. Hanger for ear-corn. No. 981,270; Jan. 10; Sp. p. 2519; Gaz. vol. 162; p. 410.
Hurlbrink, Ernst. (See Behrmann and Hurlbrink.)
Hurley, Charles J., Sharon Hill, Pa. Electrically-controlled train-stopping mechanism. No. 1,004,790; Oct. 3; Sp. p. 518; Gaz. vol. 171; p. 86.
Hurley, Lawrence, and C. A. Brewton, Washington, D. C. Graduated mold-cap auxiliary and movable liner. No. 1,004,030; Sept. 26; Sp. p. 4056; Gaz. vol. 170; p. 732.
Hurley, Michael J., New York, N. Y. Pocket-holder. No. 1,006,851; Oct. 24; Sp. p. 5067; Gaz. vol. 171; p. 893.
Hurley, Walter P. (See Chambers, Harry H., assignor.)
Hurshman, Lee, assignor to L. Hurshman, Elkins, W. Va. Rail device. No. 995,065; June 13; Sp. p. 2144; Gaz. vol. 167; p. 372.
Hurshman, Lizzie. (See Hurshman, Lee, assignor.)
Hurst, Albert K., Dallas, Tex. Garment-waist adjuster. No. 1,012,083; Dec. 19; Sp. p. 3804; Gaz. vol. 173; p. 659.
Hurst, Charles M., Rawlins, Wyo. Automatic switch and signal mechanism. No. 989,977; Apr. 18; Sp. p. 3620; Gaz. vol. 165; p. 627.
Hurst, William C., New York, N. Y. Airship. No. 994,104; May 30; Sp. p. 6996; Gaz. vol. 166; p. 1255.
Hurst, William H., Chicago, Ill. Furnace. No. 992,198; May 16; Sp. p. 2895; Gaz. vol. 166; p. 539.
Huse, Charles A., Williamsport, Pa., and S. M. Bowman, New York, N. Y., assignors to The International Surface Contact Company, Philadelphia, Pa. Electric-railway system. No. 980,526; Jan. 3; Sp. p. 769; Gaz. vol. 162; p. 123.
Huseby, Albert A., Chicago, Ill. Piano-bench. No. 995,789; June 20; Sp. p. 3717; Gaz. vol. 167; p. 647.
Huseby, Albert A., Chicago, Ill. Piano. No. 1,008,269; Nov. 7; Sp. p. 1338; Gaz. vol. 172; p. 219.
Hüserich, Franz, Elberfeld, Germany. Manufacturing imitation stained glass out of paper. No. 1,002,993; Sept. 12; Sp. p. 1806; Gaz. vol. 170; p. 313.
Husk, William R., Richwood, W. Va. Steam sand-drier. No. 980,271; Jan. 3; Sp. p. 171; Gaz. vol. 162; p. 33.
Huson, Winfield S., assignor to The Whitlock Printing Press Mfg. Co., Derby, Conn. Delivery mechanism for printing-presses. No. 986,172; Mar. 7; Sp. p. 863; Gaz. vol. 164; p. 140.
Hussey, Alfred R., Harvard, assignor to American Water Supply Company of New England, Boston, Mass. Apparatus for collecting drinking-cups. No. 986,571; Mar. 14; Sp. p. 1731; Gaz. vol. 164; p. 307.

Hussey, Alfred R., Harvard, assignor to American Water Supply Company of New England, Boston, Mass. Apparatus for coating articles. No. 999,789; Aug. 8; Sp. p. 1178; Gaz. vol. 169; p. 232.
Hussey, Alfred R., Harvard, assignor to American Water Supply Company of New England, Boston, Mass. Vending-machine. No. 999,790; Aug. 8; Sp. p. 1181; Gaz. vol. 169; p. 233.
Hussey, John E., Hammond, Ind. Fence-post. No. 1,005,040; Oct. 3; Sp. p. 1030; Gaz. vol. 171; p. 172.
Hussey, John R., Indianapolis, Ind. Sliding-door construction. No. 1,006,946; Oct. 24; Sp. p. 5265; Gaz. vol. 171; p. 926.
Hussey, Patrick L., Cleveland, Ohio. Motor-vehicle. No. 1,009,841; Nov. 28; Sp. p. 4887; Gaz. vol. 172; p. 882.
Husson, Edouard, Paris, France. Automatic lighter. No. 1,006,557; Oct. 24; Sp. p. 4437; Gaz. vol. 171; p. 791.
Huston, Charles L., assignor to Jacobs-Shupert U. S. Fire Box Company, Coatesville, Pa. Boiler-fire-box construction. No. 1,012,358; Dec. 19; Sp. p. 4395; Gaz. vol. 173; p. 753.
Huston, Peter. (See Legge and Huston.)
Huston, Thomas O., Geneva, Nebr. Shock-absorber. No. 988,782; Apr. 4; Sp. p. 1057; Gaz. vol. 165; p. 169.
Hutches, Benjamin F., Jr., Allendale, N. J. Electromotor. No. 1,005,842; Oct. 17; Sp. p. 2784; Gaz. vol. 171; p. 507.
Hutchings, Charles E., assignor to Eastman Kodak Company, Rochester, N. Y. Bellows-support for photographic apparatus. No. 987,232; Mar. 21; Sp. p. 3110; Gaz. vol. 164; p. 564.
Hutchings, Charles E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. No. 987,366; Mar. 21; Sp. p. 3394; Gaz. vol. 164; p. 609.
Hutchings, Frederick E., New York, N. Y. Wheel-guard for cars. No. 980,958; Jan. 10; Sp. p. 1788; Gaz. vol. 162; p. 298.
Hutchings, George J., London, England. Steam-cooker. No. 998,096; July 18; Sp. p. 3260; Gaz. vol. 168; p. 588.
Hutchings, Tresham F., Stony Ford, N. Y. Combination pulley, funnel, and stripping-jack. No. 1,001,644; Aug. 29; Sp. p. 5207; Gaz. vol. 169; p. 965.
Hutchins, Arthur W., Cranston, R. I. Absorbing moisture from wet surfaces of articles of jewelry, &c. No. 1,012,644; Dec. 26; Sp. p. 4985; Gaz. vol. 173; p. 895.
Hutchins, Elmer N. (See Bennett and Hutchins.)
Hutchins, Frederick S., assignor of one-half to I. Silverberg, San Francisco, Cal. Automatic time-valve. No. 981,271; Jan. 10; Sp. p. 2520; Gaz. vol. 162; p. 410.
Hutchinson, Albert A., Winchester, Mass. Hide-working machine. No. 993,068; May 23; Sp. p. 4800; Gaz. vol. 166; p. 873.
Hutchinson, Charles F. (See Egerton, Bayard C., assignor.)
Hutchinson, Charles T., Oakland, Cal. Automatic ore-feeder. No. 983,621; Feb. 7; Sp. p. 785; Gaz. vol. 163; p. 124.
Hutchinson, Elliot S., *et al.*, executors. (See Carrick, James T.)
Hutchinson, Ira R., assignor to Hutchinson Mailer Manufacturing Company, Fresno, Cal. Machine for printing addresses. No. 980,642; Jan. 3; Sp. p. 989; Gaz. vol. 162; p. 162.
Hutchinson Mailer Manufacturing Company. (See Hutchinson, Ira R., assignor.)
Hutchinson, Richard J., Birkenhead, and A. B. Grindrod, Rock Ferry, England. Speed-indicator. No. 983,496; Feb. 7; Sp. p. 511; Gaz. vol. 163; p. 82.
Hutchinson, Robert D., assignor to Mathews Gravity Carrier Co., St. Paul, Minn. Elevator for gravity carrier systems. No. 1,004,266; Sept. 26; Sp. p. 4601; Gaz. vol. 170; p. 813.
Hutchinson, Robert H., assignor to L. A. Ruiz, New York, N. Y. Insecticide or fungicide compound. No. 1,001,852; Aug. 29; Sp. p. 5670; Gaz. vol. 169; p. 1038.
Hutchinson, Robert M., Elgin, Ill. Piano-action. No. 987,723; Mar. 28; Sp. p. 4153; Gaz. vol. 164; p. 759.
Hutchinson, Thomas C., Decorah, Iowa. Forming dental bridges and the like. No. 992,199; May 16; Sp. p. 2897; Gaz. vol. 166; p. 539.
Hutchinson, Thomas J., Bury, England. Treatment of fibrous material and apparatus therefor. No. 1,003,606; Sept. 19; Sp. p. 3104; Gaz. vol. 170; p. 559.
Hutchinson, Thomas O., Springfield, Oreg. Fruit-picker's ladder. No. 1,008,827; Nov. 14; Sp. p. 2697; Gaz. vol. 172; p. 453.
Hutchinson, Thomas W., Middlebury, Ind. Tire-bolt wrench. No. 980,527; Jan. 3; Sp. p. 773; Gaz. vol. 162; p. 123.
Hutchinson, William F., Valatie, assignor to Match Supply Company, Watervliet, N Y. Splint-cutting machine. No. 1,011,435; Dec. 12; Sp. p. 2318; Gaz. vol. 173; p. 396.
Hutchinson, William H., Rochester, N. Y. Egg-detector. No. 995,144; June 13; Sp. p. 2286; Gaz. vol. 167; p. 396.
Hutchinson, William H., Rochester, N. Y. Egg-detector. No. 1,005,220; Oct. 10; Sp. p. 1387; Gaz. vol. 171; p. 256.

Alphabetical list of patentees—Continued.

Hutchison, Maurice F., Floris, assignor of one-half to A. W. Cummins, Herndon, Va. Roller-screen. No. 998,006; July 18; Sp. p. 3050; Gaz. vol. 168; p. 555.
Hutchison, Miller R., Summit, N. J. Speed-indicating system. No. 982,499; Jan. 24; Sp. p. 5134; Gaz. vol. 162; p. 886.
Hutchison, Orville B. (See Hutchison, Orville T., assignor.)
Hutchison, Orville T., assignor of one-fourth to O. B. Hutchison, De Land, Fla. Combined dust-pan and broom-support. No. 996,341; June 27; Sp. p. 4948; Gaz. vol. 167; p. 871.
Huth, William A., assignor, by mesne assignments, of one-half to A. M. Williams, Syracuse, N. Y. Necktie-retainer. No. 987,367; Mar. 21; Sp. p. 3396; Gaz. vol. 164; p. 609.
Hutson, Henry and W. S., Pocatello, Idaho. Meat compressor and retainer. No. 990,271; Apr. 25; Sp. p. 4249; Gaz. vol. 165; p. 758.
Hutson, Lawrence O., Boone, Iowa. Nut-lock. No. 980,528; Jan. 3; Sp. p. 775; Gaz. vol. 162; p. 123.
Hutson, Walter S. (See Hutson, Henry and W. S.)
Hutson, William A., assignor of two-thirds to J. H. Keeler, one-thirtieth to G. W. Brenn, one-tenth to J. G. Goff, one-thirtieth to J. B. Gottlob, and two-thirtieths to C. W. Shaw, Philadelphia, Pa. Aerodrome. No. 1,007,445; Oct. 31; Sp. p. 6358; Gaz. vol. 171; p. 1155.
Huttanus, Wilhelm, Borth, Kreis Moers, Germany. Tubbing. No. 985,177; Feb. 28; Sp. p. 4155; Gaz. vol. 163; p. 755.
Hutteballe, Hans C., and C. Morler, Boise, Idaho. Photographic apparatus. No. 983,141; Jan. 31; Sp. p. 6489; Gaz. vol. 162; p. 1128.
Hutton, Earl B., West Brownsville, Pa. Rail-joint. No. 1,007,573; Oct. 31; Sp. p. 6645; Gaz. vol. 171; p. 1198.
Hutton, Joel W., Philadelphia, Pa. Cellular sun-ray intercepter for skylights. No. 994,924; June 13; Sp. p. 1841; Gaz. vol. 167; p. 324.
Hutton, Samuel T., Chicago, Ill. Rotary circuit-breaker. No. 988,571; Apr. 4; Sp. p. 602; Gaz. vol. 165; p. 97.
Huverstuhl, Joseph, Los Angeles, Cal. Lubricator. No. 991,723; May 9; Sp. p. 1940; Gaz. vol. 166; p. 348.
Huyck, Francis P., assignor to E. H. Rhoades, Jr., trustee, Toledo, Ohio. Sewing-machine electric motor. No. 985,678; Feb. 28; Sp. p. 5244; Gaz. vol. 163; p. 926.
Huyck, Francis P., assignor to E. H. Rhoades, Jr., trustee, Toledo, Ohio. Controller for electric motors for sewing-machines. No. 985,758; Feb. 28; Sp. p. 5444; Gaz. vol. 163; p. 955.
Hyams, Harry H. (See Keck, Christian, assignor.)
Hyatt, John W., Newark, N. J. Compressed wooden article and producing same. No. 987,368; Mar. 21; Sp. p. 3398; Gaz. vol. 164; p. 610.
Hyatt Roller Bearing Company. (See Lockwood, Charles S., assignor.)
Hyatt Roller Bearing Company. (See Shirley, Cephas I., assignor.)
Hyatt, William H., Cookham, assignor to P. D. Penn, South Croydon, England. Reclamation of waste rubber and vulcanite. No. 992,425; May 16; Sp. p. 3436; Gaz. vol. 166; p. 619.
Hyatt-Woolf, Charles, London, England. Double shirt-collar. No. 986,825; Mar. 14; Sp. p. 2271; Gaz. vol. 164; p. 393.
Hyde, Albert G. (See Link and Hyde.)
Hyde, Benjamin T. B., New York, N. Y., and A. Gaul, Jr., Ridgefield, N. J. Aeroplane. No. 1,002,203; Aug. 29; Sp. p. 6398; Gaz. vol. 169; p. 1153.
Hyde, David B. (See Abraham, William J., assignor.)
Hyde, Edwin N. (See Ekberg, Arvid W., assignor.)
Hyde, Emory B., De Soto, assignor of one-half to J. W. Thayer, Viroqua, Wis. Harness. No. 1,002,696; Sept. 5; Sp. p. 1135; Gaz. vol. 170; p. 172.
Hyde, Jerome W. (See Miller, Franklin B., Jr., assignor.)
Hyde, John B., Hale, England. Cop-carrier. No. 993,377; May 30; Sp. p. 5465; Gaz. vol. 166; p. 1006.
Hyde, Oliver P., Marietta, Ohio. Rug-fastener. No. 992,357; May 16; Sp. p. 3307; Gaz. vol. 166; p. 595.
Hyde, Oscar H. (See Carter, Lionel A., assignor.)
Hyde, Valentine M., Des Moines, Iowa. Power plant and crematory. No. 994,002; May 30; Sp. p. 6787; Gaz. vol. 166; p. 1219.
Hydorion Internat Wascherei - Maschinen - Gesellschaft. (See Pohlmann, Fritz, assignor.)
Hydraulic Clutch Drive Co. (See Henderson, William W., assignor.)
Hydraulic Press Manufacturing Company, The. (See Davis, Edward B., assignor.)
Hydraulic Separating & Grading Company Limited. (See Gee, William J., assignor.)
Hydro Engine Power and Irrigation Company. (See Bovee, Ransom Y., assignor.)
Hydro-Kinetic Transmission Company, The. (See Rich, Charles C., assignor.) (Reissue.)
Hydro-Suction Cleaner Co. (See Mohr, Otto H., assignor.)
Hydrocarbon Converter Company. (See Benham, Elijah B., assignor.)
Hydrostatic Motor Co. (See Mecham, James G., assignor.)
Hygienic Soap Granulator Co. (See Shaver, George F., assignor.)
Hyke, Francis G., Sr., assignor of one-half to F. Hyke, St. Louis, Mo. Hanger for gutters and the like. No. 1,000,411; Aug. 15; Sp. p. 2561; Gaz. vol. 169; p. 477.
Hyke, Fred. (See Hyke, Francis G., Sr., assignor.)
Hylander, Charles E., and G. F. Freed, assignors to The Duff Manufacturing Company, Pittsburg, Pa. Lifting-jack. No. 997,133; July 4; Sp. p. 1126; Gaz. vol. 168; p. 183.
Hyle, William A., Buffalo, N. Y., assignor to P. E. Macdonald, Toronto, Canada. Vise. No. 1,009,970; Nov. 28; Sp. p. 5132; Gaz. vol. 172; p. 925.
Hyltone, Alexander, assignor to Stewart & Hay Building Co., St. Louis, Mo. Fly-holder for shoes. No. 1,002,272; Sept. 5; Sp. p. 191; Gaz. vol. 170; p. 25.
Hyman, Henry F., assignor of one-half to A. M. Carson, Willis, Tex. Hame-fastener. No. 992,132; May 9; Sp. p. 2739; Gaz. vol. 166; p. 485.
Hymes, Simon, Glenwood Springs, Colo. Measuring device. No. 986,173; Mar. 7; Sp. p. 869; Gaz. vol. 164; p. 140.
Hymes, Simon, Glenwood Springs, Colo. Cleansing device. No. 988,194; Mar. 28; Sp. p. 5179; Gaz. vol. 164; p. 918.
Hystad, Nels, Tolley, N. D. Threshing-machine. No. 1,009,971; Nov. 28; Sp. p. 5134; Gaz. vol. 172; p. 925.
I. E. Palmer Co., The. (See Palmer, Isaac E., assignor.)
I. E. Palmer Co., The. (See Palmer, Isaac E., assignor.) (Reissue.)
I. J. Smith Mfg. Co. (See Smith, Irving J., assignor.)
Iarussi, Pasquale. (See Mazzeo and Iarussi.)
Iber, Albert, assignor of one-half to J. Kouril, Poughkeepsie, N. Y. Attachment for internal-combustion engines. No. 1,008,155; Nov. 7; Sp. p. 1079; Gaz. vol. 172; p. 177.
Ibson, John P., Denver, Colo. Concentrator. No. 981,194; Jan. 10; Sp. p. 2313; Gaz. vol. 162; p. 382.
Ichtertz, Michael, Torquay, Cal. Level. No. 983,622; Feb. 7; Sp. p. 786; Gaz. vol. 163; p. 125.
Ickes, George A., assignor, by mesne assignments, to S. E. Ickes, Altoona, Pa. Refrigerator. No. 994,163; June 6; Sp. p. 123; Gaz. vol. 167; p. 22.
Ickes, George L., Newport, assignor to S. E. Ickes, Altoona, Pa. Air-brake system. No. 992,564; May 16; Sp. p. 3733; Gaz. vol. 166; p. 668.
Ickes, L. Z., *et al.*, trustees. (See Converse, Newton B., assignor.)
Ickes, Sidma E. (See Ickes, George L., assignor.)
Iddings, Frank A. (See Iddings, William T. and F. A.)
Iddings, William T. and F. A., Warren, Ohio. Globe-lifting device for lanterns. No. 982,181; Jan. 17; Sp. p. 4436; Gaz. vol. 162; p. 743.
Ideal Concrete Machinery Company. (See Grogg, Isaac, assignor.)
Ideal Gas Generator Company, The. (See Morey, Harry A., assignor.)
Ideal Linen Mesh Company. (See Lawrence, William A., assignor.)
Ideal Manufacturing Company, The. (See Hilton, George O., assignor.)
Ideal Manufacturing Company, The. (See Lonskey, John H., assignor.)
Ideal Peerless Manufacturing Company, The. (See Zimmer, Wilson A., assignor.)
Ideal Stencil Machine Co. (See Remnsnider, George, assignor.)
Ideal Visible Ruler Company, The. (See Henschel, Edward, assignor.)
Ideal Wheel Company, The. (See Strietelmeier, John E., assignor.)
Idris & Co. (See Idris and Griffith, assignors.)
Idris, William T. W., Camden Town, and R. H. Griffith, Palmer's Green, assignors to Idris & Co. Limited, Camden Town, England. Head of siphons for aerated liquids. No. 1,011,676; Dec. 12; Sp. p. 2895; Gaz. vol. 173; p. 483.
Idzal, Thore, Camden, N. J. Rotary engine. No. 999,650; Aug. 1; Sp. p. 890; Gaz. vol. 169; p. 155.
Ifft, John, Zelienople, Pa. Overhead railway. No. 994,519; June 6; Sp. p. 856; Gaz. vol. 167; p. 144.
Ifft, John, Zelienople, Pa. Metallic tie and rail-fastener. No. 994,589; June 6; Sp. p. 1014; Gaz. vol. 167; p. 169.
Igou, Samuel C. (See Rozier and Igou.)
Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current-motor control. No. 982,067; Jan. 17; Sp. p. 4231; Gaz. vol. 162; p. 705.
Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Armature-core. No. 996,927; July 4; Sp. p. 678; Gaz. vol. 168; p. 112.
Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Motor control. No. 1,005,221; Oct. 10; Sp. p. 1390; Gaz. vol. 171; p. 256.
Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Electrodynamic-brake control. No. 1,005,222; Oct. 10; Sp. p. 1397; Gaz. vol. 171; p. 256.
Ihlder, John D., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Double brake. No. 1,011,200; Dec. 12; Sp. p. 1797; Gaz. vol. 173; p. 313.
Ihmsen, J. G., *et al.* (See Leich, Oscar M., assignor.)

Ihsen, Arthur H., assignor of one-half to H. L. Ihsen, Pittsburg, Pa. Lathe-tool. No. 987,233; Mar. 21; Sp. p. 3112; Gaz. vol. 164; p. 564.
Ihsen, Henry L. (See Ihsen, Arthur H., assignor.)
Iler, Franklin M., Denver, Colo. Tunneling and shaft-boring machine. No. 986,293; Mar. 7; Sp. p. 1111; Gaz. vol. 164; p. 179.
Iliffe, Daniel, Somerville, Mass. Lifter for sashes of greenhouses and the like. No. 982,500; Jan. 24; Sp. p. 5142; Gaz. vol. 162; p. 886.
Iljinsky, Michael, assignor to R. Wedekind & Co. m. b. H., Uerdingen, Germany. Making acid dyes of the anthracene series. No. 996,487; June 27; Sp. p. 5260; Gaz. vol. 167; p. 922.
Illick, Harry D., Galesburg, Mich. Holder for sound-reproducing records. No. 1,009,523; Nov. 21; Sp. p. 4245; Gaz. vol. 172; p. 731.
Illingworth, Alfred H., Ben Rhydding, England. Fishing and like lines. No. 998,341; July 18; Sp. p. 3814; Gaz. vol. 168; p. 678.
Illingworth, Harry I., Swampscott, assignor to Boston Machine Works Company, Lynn, Mass. Rotary cementer. No. 986,062; Mar. 7; Sp. p. 655; Gaz. vol. 164; p. 105.
Illinois Malleable Iron Company. (See Streeter, Alfred L., assignor.)
Illinois Rawhide Box Co. (See Hodge, Arthur J., assignor.)
Illinois Steel Company. (See Gray, James H., assignor.)
Illinois Watch Company. (See Johnson, George F., assignor.)
Illoway, Nettie, New York, N. Y. Safety medicine-bottle. No. 1,008,916; Nov. 14; Sp. p. 2866; Gaz. vol. 172; p. 482.
Illsley, Frank P., Evanston, Ill., assignor to The Sireno Company, New York, N. Y. Motor-lock. No. 1,000,523; Aug. 15; Sp. p. 2798; Gaz. vol. 169; p. 516.
Ilo Hardware and Implement Company. (See Sims, Walter P., assignor.)
Ilten, Edward P. (See Bush, Oscar, assignor.)
Imbert Process Company. (See Thomson, John, assignor.)
Imhof, Philip W. (See Berg and Baumann, assignors.)
Imig, Jacob P., San Jose, Ill. Door-latch. No. 1,012,256; Dec. 19; Sp. p. 4183; Gaz. vol. 173; p. 718.
Immell, Omer F., Blair, Wis. Trolling-bait. No. 990,984; May 2; Sp. p. 328; Gaz. vol. 166; p. 57.
Immo, Axel, *et al.* (See Ostman, Joseph O., assignor.)
Imperial Brass Manufacturing Company, The. (See Gruschow, Frank, assignor.)
Imperial Stopper Company. (See Miller, Eseck C., assignor.)
Imperiali, Roberto, Naples, Italy. Explosive. No. 998,007; July 18; Sp. p. 3051; Gaz. vol. 168; p. 556.
Impey, Francis L., Birmingham, England. Hinge mechanism for the covers of loose-leaf books. No. 1,003,265; Sept. 12; Sp. p. 2381; Gaz. vol. 170; p. 409.
Improved Cold Water Shrinking Machine Company. (See Zuck, Nicholas, assignor.)
Improved Equipment Company, The. (See Barmore, Charles, Jr., assignor.)
Improved Moulding Manufacturing Company. (See Burk, Sidney M., assignor.)
In-er Globe Lamp Company, The. (See Washburn, Samuel D., assignor.)
Incandescent Light & Stove Company, The. (See Rosselle, George T., assignor.)
Incandescent Light & Stove Company, The. (See Stubbers, Joseph, assignor.)
Indahl, Mauritz C. (See Bancroft and Indahl.)
Indahl, Mauritz C., and W. E. Chalfant, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Die-case equipment for type-machines. No. 980,959; Jan. 10; Sp. p. 1792; Gaz. vol. 162; p. 299.
Indahl, Mauritz C., and W. E. Chalfant, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Type-machine matrix. No. 981,195; Jan. 10; Sp. p. 2315; Gaz. vol. 162; p. 382.
Indahl, Mauritz C., and A. L. Knight, assignors to Lanston Monotype Machine Company, Philadelphia, Pa. Type-mold. No. 980,960; Jan. 10; Sp. p. 1794; Gaz. vol. 162; p. 299.
Indahl, Victor A., Chicago, Ill. Animal-trap. No. 1,002,273; Sept. 5; Sp. p. 192; Gaz. vol. 170; p. 25.
Independent Button & Machine Company. (See Breitenstein, Julius G., assignor.)
Independent Electric Manufacturing Company. (See Gaulke, William H., assignor.)
Independent Electric Manufacturing Company. (See Kalweit and Gaulke, assignors.)
Independent Harvester Company. (See Boda, Joseph, assignor.)
Independent Harvester Company, The. (See Holsman, Henry K., assignor.)
Independent Harvester Company. (See Nichols, Winfield S., assignor.)
Independent Harvester Company. (See Wunder, George E., assignor.)
Independent Powder Co. of Missouri. (See Talley, Herbert, assignor.)
Independent Street Lighting Company. (See Sherman, Francis W., assignor.)
Indiana Anchor Fence Co. (See Palmiter, Frank, assignor.)
Indiana Manufacturing Company, The. (See MacGregor, Wallace F., assignor.)
Indiana Manufacturing Company, The. (See Miller, William, assignor.)
Indiana Manufacturing Company, The. (See Sattley, Frederick L., assignor.)
Indianapolis Paper Novelty Company. (See Haas, Walter G., assignor.)
Inenfeldt, Henry C. (See Smith, Edward H., assignor.)
Inge, Eugene, assignor to Standard Directory Company, New York, N. Y. Mechanical directory. No. 1,007,286; Oct. 31; Sp. p. 6020; Gaz. vol. 171; p. 1099.
Ingels, Albert C., Waynesboro, Pa. Paper-trimming device. No. 988,783; Apr. 4; Sp. p. 1058; Gaz. vol. 165; p. 169.
Ingersoll, Frederick, and W. W. Macfarren, Pittsburg, Pa. Track-brake. No. 980,272; Jan. 3; Sp. p. 173; Gaz. vol. 162; p. 34.
Ingersoll, John J., Jr., Alder Creek, N. Y. Railway-track. No. 987,464; Mar. 21; Sp. p. 3609; Gaz. vol. 164; p. 643.
Ingersoll Milling Machine Company, The. (See Smith, George W., assignor.)
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
Ingersoll-Rand Company. (See Raymond, Ward, assignor.)
Ingersoll-Rand Company. (See Taylor, Albert H., assignor.)
Inghram, Howard T., Fairfield, Iowa. Seat-mounting for agricultural implements. No. 982,068; Jan. 17; Sp. p. 4237; Gaz. vol. 162; p. 706.
Inghram, Howard T., Fairfield, Iowa. Manure-spreader. No. 991,065; May 2; Sp. p. 489; Gaz. vol. 166; p. 85.
Inghram, Howard T., Fairfield, Iowa. Flexible pipe. No. 999,564; Aug. 1; Sp. p. 738; Gaz. vol. 169; p. 126.
Ingle, Arthur H. (See Cochrane, Robert B., assignor.)
Inglis, James, assignor to American Blower Company, Detroit, Mich. Rotary fan. No. 1,011,799; Dec. 12; Sp. p. 3148; Gaz. vol. 173; p. 526.
Inglis, John R. (See Bebout and Inglis.)
Ingold, Carl F., Milwaukee, Wis. Detachable bow for eyeglasses. No. 994,925; June 13; Sp. p. 1842; Gaz. vol. 167; p. 324.
Ingold, Carl F., Milwaukee, Wis. Detachable bow for eyeglasses. No. 1,011,959; Dec. 19; Sp. p. 3508; Gaz. vol. 173; p. 614.
Ingoldsby Automatic Car Company, The. (See Ingoldsby, Frank S., assignor.)
Ingoldsby Automatic Car Company, The. (See Sisson, Vinton E., assignor.)
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 993,449; May 30; Sp. p. 5614; Gaz. vol. 166; p. 1030.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 993,450; May 30; Sp. p. 5620; Gaz. vol. 166; p. 1030.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 998,180; July 18; Sp. p. 3422; Gaz. vol. 168; p. 617.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 998,967; July 25; Sp. p. 5201; Gaz. vol. 168; p. 928.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Car. No. 999,791; Aug. 8; Sp. p. 1186; Gaz. vol. 169; p. 233.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,000,175; Aug. 8; Sp. p. 2034; Gaz. vol. 169; p. 364.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Car. No. 1,000,176; Aug. 8; Sp. p. 2040; Gaz. vol. 169; p. 364.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Car. No. 1,000,177; Aug. 8; Sp. p. 2046; Gaz. vol. 169; p. 365.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Mechanism for operating dump-cars. No. 1,002,994; Sept. 12; Sp. p. 1807; Gaz. vol. 170; p. 313.
Ingoldsby, Frank S., assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Stop. No. 1,004,267; Sept. 26; Sp. p. 4603; Gaz. vol. 170; p. 814.
Ingraham, Charles B., assignor of one-half to I. H. Holden, Laurel, Iowa. Concrete block for watering-tanks. No. 1,001,273; Aug. 22; Sp. p. 4457; Gaz. vol. 169; p. 809.
Ingraham, George E., Bristol, R. I. Machine for forming rolls from dough. No. 1,007,207; Oct. 31; Sp. p. 5865; Gaz. vol. 171; p. 1070.
Ingraham, Matthew W., Glace Bay, Nova Scotia, Canada. Bed. No. 984,001; Feb. 14; Sp. p. 1642; Gaz. vol. 163; p. 283.
Ingraham, Matthew W., Glace Bay, Nova Scotia, Canada. Nut-lock. No. 995,066; June 13; Sp. p. 2145; Gaz. vol. 167; p. 372.

Alphabetical list of patentees—Continued.

Ingraham, Matthew W., Glace Bay, Nova Scotia, Canada. Device for tightening bed-springs. No. 997,134; July 4; Sp. p. 1128; Gaz. vol. 168; p. 183.
Ingram, Jonathan D., Mineral Wells, Tex. Portable liquid-cooling tank. No. 992,506; May 16; Sp. p. 3604; Gaz. vol. 166; p. 647.
Ingram, Joseph A., Philadelphia, Pa. Optical illusion device. No. 988,784; Apr. 4; Sp. p. 1060; Gaz. vol. 165; p. 169.
Ingram, Louis, *et al.* (See Richardson, Ernest, assignor.)
Ingram, Oscar L., Walla Walla, Wash., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 992,200; May 16; Sp. p. 2898; Gaz. vol. 166; p. 540.
Ingram-Richardson Manufacturing Company. (See Richardson, Ernest, assignor.)
Inkster, John R., Omaha, Nebr. Safety attachment for elevators. No. 994,003; May 30; Sp. p. 6789; Gaz. vol. 166; p. 1220.
Inlaid Company, The. (See Butler, David H., assignor.)
Inman, Charles H., Trenton, N. J. Internal-combustion engine. No. 1,004,432; Sept. 26; Sp. p. 4940; Gaz. vol. 170; p. 869.
Inman, Clifton L., Portland, Oreg. Hay-baling machine. No. 986,986; Mar. 14; Sp. p. 2580; Gaz. vol. 164; p. 447.
Inman, George M. (See Knowles and Inman.)
Inman, George S., assignor of one-half to G. C. Waterman, Chicago, Ill. Supporting and protecting device for third rails. No. 1,000,679; Aug. 15; Sp. p. 3164; Gaz. vol. 169; p. 572.
Inman, Gilbert H., *et al.* (See Bowers, George W., assignor.)
Inman, Horace, Amsterdam, N. Y. Paper-box machine. No. 996,086; June 27; Sp. p. 4331; Gaz. vol. 167; p. 785.
Inokuty, Ariya, Tokyo, Japan. Means for stiffening boiler-heads. No. 1,000,266; Aug. 8; Sp. p. 2223; Gaz. vol. 169; p. 395.
Inshaw, George R. (See Inshaw, John G. and G. R.)
Inshaw, John G. and G. R., Uddingston, Scotland, assignors of one-half to C. Shaw, Wolverhampton, and W. E. Andrew, Wilmslow, England. Apparatus for pilgering metal blooms, &c. No. 995,427; June 13; Sp. p. 2912; Gaz. vol. 167; p. 491.
Insinger, Alfred, Philadelphia, Pa. Lathe-motion for looms. No. 985,594; Feb. 28; Sp. p. 5085; Gaz. vol. 163; p. 899.
Insull, Samuel. (See Ball, Henry P., assignor.)
Interborough Realty Company. (See Allen, Henry W., assignor.)
Intercontinental Rubber Company. (See Lawrence, William A., assignor.)
International Acheson Graphite Company. (See Robinson, Alfred L., assignor.)
International Acheson Graphite Company. (See Smith, William A., assignor.)
International Acheson Graphite Company. (See Speiden, Eben C., assignor.)
International Appliance Company. (See Axelrood, Max, assignor.)
International Automatic Railway Switch Company. (See Johnston, Robert D., Jr., assignor.)
International Cap and Sealing-Machine Company, The. (See Levey, Thomas J., assignor.)
International Cigar Machinery Company. (See Luckett, William S., assignor.)
International Clarifying Company. (See Sanford, Kopke, and Procunier, assignors.)
International Cork Company. (See Bogdánffy, Alexander, assignor.)
International Corset Company. (See Gardner, Marshall B., assignor.)
International Device Company. (See Gibbon, Robert J., assignor.)
International Electric Protection Company. (See Goldstein, Albert, assignor.)
International Electric Protection Company. (See Goldstein and Blackwell, assignors.)
International Electric Protection Company. (See Kayser, Charles H., assignor.)
International Electric Protection Company. (See Pool, Clark H., assignor.)
International Firearms Company. (See Young, Franklin K., assignor.)
International Flax Twine Company. (See Summers, Bertrand S., assignor.)
International Harvester Company. (See Baseman, Ernest, assignor.)
International Harvester Company. (See Benjamin, Bert R., assignor.)
International Harvester Company. (See Dangel, John, assignor.)
International Harvester Company. (See Dennis, Samuel K., assignor.)
International Harvester Company. (See Johnson and Sperry, assignors.)
International Harvester Company. (See Johnston, Edward A., assignor.)
International Harvester Company. (See Johnston and Longenecker, assignors.)
International Harvester Company, The. (See Kemp, Joseph S., assignor.)
International Harvester Company. (See Latimer, John W., assignor.)
International Harvester Company. (See Pearson, Charles, assignor.)
International Harvester Company. (See Pridmore, John W., assignor.)
International Harvester Company. (See Rand, Charles A. A., assignor.)
International Harvester Company. (See Randall, Parke, assignor.)
International Harvester Company. (See Rice, Frank W., assignor.)
International Harvester Company. (See Robinson, Charles W., assignor.)
International Harvester Company. (See Ryther, Frank A., assignor.)
International Harvester Company. (See Schutt, Owen, assignor.)
International Harvester Company. (See Sharp, Charles S., assignor.)
International Harvester Company. (See Sharp, James A., assignor.)
International Harvester Company. (See Stone, John A., assignor.)
International Harvester Company. (See Sturrock, John, assignor.)
International Harvester Company. (See Sturrock and Schutt, assignors.)
International Harvester Company. (See Therens, Paul S., assignor.)
International Harvester Company. (See Waterman, Henry A., assignor.)
International Harvester Company. (See Waterman, Bradley, and Andrew, assignors.)
International Harvester Company. (See Webber, William, assignor.)
International Keycode Company. (See McDonald, Charles W., assignor.)
International Klinch Tile Corporation. (See Du Montier, Alfred, assignor.)
International Machine Corporation. (See Wood, James N., assignor.)
International Metal Products Company, The. (See Carnahan, Robert B., Jr., assignor.)
International Monorail Co. (See Barnes, Pierre, assignor.)
International Monorail Co. (See Shepard, William H., assignor.)
International Motor Plow Company, The. (See Cook and Kurtz, assignors.)
International Oxygen Company. (See Hazard-Flamand, Louis H. A. B. M., assignor.)
International Paper Company. (See Curtis, Warren, Jr., assignor.)
International Patent Investment & Manufacturing Co. (See Anderson, Anthony N., assignor.)
International Pavement Company, The. (See Hemstreet, George P., assignor.)
International Pavement Company, The. (See Whitney, George E., assignor.)
International Radiator Company, The. (See Dilks, Reyam, and Du Pont, assignors.)
International Railway Tie Company. (See Herbert, John F., assignor.)
International Salt Company Limited. (See Royston, Ernest R., assignor.)
International Steam Pump Company. (See Scott, Clarence N., assignor.)
International Steel Tie Co. (See Day, William P., assignor.)
International Surface Contact Company, The. (See Huse and Bowman, assignors.)
International Tag Company. (See Seaton and Travis, assignors.)
International Telegraph Construction Company. (See Shoemaker, Harry, assignor.)
International Telemeter Company. (See Gleeson and Gilman, assignors.)
International Text Book Company. (See Tanner and Griffin, assignors.)
International Text Book Company. (See Tanner and Jones, assignors.)
International Ticket Company. (See Flett, William, assignor.)
International Time Recording Company of New York. (See Blair, Robert S., assignor.)
International Tool Company. (See Stich, Arthur J., assignor.)
International Voting Machine Company. (See Swaren, William A., assignor.)
Internationale Rotations-Maschinen Gesellschaft M. B. H. (See Eisermann, Rudolf, assignor.)
Ionides, Alexander C., Jr., London, England. Air-gas apparatus. No. 1,011,961; Dec. 19; Sp. p. 3515; Gaz. vol. 173; p. 615.
Ionides, Alexander G., assignor of one-third to J. W. Goddard and one-third to D. J. Jarvis, Leicester, England. Carbureter. No. 1,011,960; Dec. 19; Sp. p. 3509; Gaz. vol. 173; p. 615.
Iowa Motor Wheel Company. (See Beall and Skellenger, assignors.)

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Iowa Washing Machine Company. (See Schoonover, William J., assignor.)
Ira Robbins Company. (See Robbins, Ira, assignor.)
Irelan, Alfred E., assignor to Philadelphia Metallic Bed Company, Incorporated, Philadelphia, Pa. Bed-couch. No. 1,011,201; Dec. 12; Sp. p. 1801; Gaz. vol. 173; p. 314.
Ireland, Robert, Wilkes-Barre, Pa. Land-clearer. No. 1,011,348; Dec. 12; Sp. p. 2150; Gaz. vol. 173; p. 367.
Ireland, Roy R. (See Dixon and Ireland.)
Ireland, Ward S., Dallas, Tex. Type-writing machine. No. 980,273; Jan. 3; Sp. p. 174; Gaz. vol. 162; p. 34.
Ireland, Ward S., Dallas, Tex. Type-writing machine. No. 980,274; Jan. 3; Sp. p. 178; Gaz. vol. 162; p. 35.
Ireland, Ward S., Dallas, Tex. Type-writing machine. No. 980,275; Jan. 3; Sp. p. 179; Gaz. vol. 162; p. 35.
Ireland, Ward S., Dallas, Tex. Type-writing machine. No. 980,276; Jan. 3; Sp. p. 182; Gaz. vol. 162; p. 35.
Ireland, Ward S., Dallas, Tex. Type-writing machine. No. 980,277; Jan. 3; Sp. p. 184; Gaz. vol. 162; p. 36.
Ireland, Ward S., Dallas, Tex. Copy-holder. No. 980,278; Jan. 3; Sp. p. 188; Gaz. vol. 162; p. 36.
Ireland, Ward S., Dallas, Tex. Reel and reel-mounting. No. 980,279; Jan. 3; Sp. p. 190; Gaz. vol. 162; p. 37.
Ireland, Ward S., Dallas, Tex. Type-writing machine. No. 980,280; Jan. 3; Sp. p. 191; Gaz. vol. 162; p. 37.
Irey, William S., San Fernando, Pampanga, Philippine Islands. Cooking apparatus. No. 1,007,700; Nov. 7; Sp. p. 108; Gaz. vol. 172; p. 17.
Irgens, Louis S., Oakland, Cal. Sanitary vacuum chip-remover. No. 988,345; Apr. 4; Sp. p. 112; Gaz. vol. 165; p. 21.
Irick, George W., Chicago, Ill., and C. T. Wolford, Grand Rapids, Mich. Broom-handle. No. 986,294; Mar. 7; Sp. p. 1114; Gaz. vol. 164; p. 179.
Irick, William M., assignor of one-half to J. B. Ganong, San Angelo, Tex. Pocket-knife. No. 1,012,555; Dec. 19; Sp. p. 4773; Gaz. vol. 173; p. 820.
Irish, Allen M., Bath, Me. Gear-changing device. No. 1,010,054; Nov. 28; Sp. p. 5326; Gaz. vol. 172; p. 955.
Irish, Charles H., Zion City, Ill. Ankle-brace. No. 983,721; Feb. 7; Sp. p. 998; Gaz. vol. 163; p. 158.
Iron, John W., Tioga, Colo. Automatic switch-throwing device. No. 987,465; Mar. 21; Sp. p. 3610; Gaz. vol. 164; p. 643.
Ironite Company. (See Rauhoff, John M., assignor.)
Irons, John W. (See Higgins and Irons.)
Iruz, Luis R., Mexico, Mexico. Carbid-holder for acetylene-gas generators. No. 1,003,047; Sept. 12; Sp. p. 1910; Gaz. vol. 170; p. 330.
Irvin, George H., *et al.* (See Homan, James, assignor.)
Irvin, William H. (See Armstrong, James R., assignor.)
Irvine, F. W., *et al.* (See Akin, Allison R., assignor.)
Irvine, Wilson H., Chicago, Ill. Adjustable seat or the like. No. 998,689; July 25; Sp. p. 4551; Gaz. vol. 168; p. 829.
Irving, Chris. (See Anderson, Michael H., assignor.)
Irving, Ira W., Richmond, Va. Stropper. No. 983,142; Jan. 31; Sp. p. 6490; Gaz. vol. 162; p. 1128.
Irving, James A., Bridgeport, Conn., assignor to The Wizard Patent Developing Company. Gyroscopic top. No. 1,011,202; Dec. 12; Sp. p. 1802; Gaz. vol. 173; p. 314.
Irving, John D., Chester, Pa. Slubbing or roving frame. No. 1,009,524; Nov. 21; Sp. p. 4246; Gaz. vol. 172; p. 731.
Irving, Mary E., New Orleans, La. Combined table and work-box. No. 1,012,856; Dec. 26; Sp. p. 5475; Gaz. vol. 173; p. 969.
Irving, Minnie E., Leeds, England. Money-box. No. 1,012,857; Dec. 26; Sp. p. 5477; Gaz. vol. 173; p. 969.
Irving-Pitt Manufacturing Company. (See Pitt, William P., assignor.)
Irwin, Bartley, Halfway, Oreg. Overcheck. No. 1,012,645; Dec. 26; Sp. p. 4986; Gaz. vol. 173; p. 895.
Irwin, George M., Yonkers, N. Y., assignor to Lightfoot Schultz Company. Soap-container. No. 997,676; July 11; Sp. p. 2251; Gaz. vol. 168; p. 398.
Irwin, Leon, *et al.* (See Febiger, Henry B., assignor.)
Irwin, Thomas H., Jersey City, N. J. Apparatus for carbonating water. No. 1,007,701; Nov. 7; Sp. p. 109; Gaz. vol. 172; p. 17.
Irwin, Walter W., El Paso, Tex. Brake-operating mechanism. No. 986,826; Mar. 14; Sp. p. 2272; Gaz. vol. 164; p. 393.
Irwin, Walter W., El Paso, Tex. Collapsible coffee-pot. No. 994,520; June 6; Sp. p. 857; Gaz. vol. 167; p. 144.
Irwin, Walter W., El Paso, Tex. Trolley. No. 997,135; July 4; Sp. p. 1129; Gaz. vol. 168; p. 183.
Isaacs, Abraham S., Pittsburgh, Pa. Heat-producing compound. No. 1,010,768; Dec. 5; Sp. p. 833; Gaz. vol. 173; p. 130.
Isaacs, Joel L., Red Bank, N. J. Lacquering heating system. No. 1,000,412; Aug. 15; Sp. p. 2563; Gaz. vol. 169; p. 477.
Isaacson, Oliver T., Champaign, Ill. Reversible valve-gear. No. 1,012,084; Dec. 19; Sp. p. 3805; Gaz. vol. 173; p. 659.
Isbell, John, *et al.* (See Shelton, Mark, assignor.)
Isenberg, Paul A., Chicago, Ill. Valve-silencer. No. 997,296; July 11; Sp. p. 1481; Gaz. vol. 168; p. 270.
Isenberger, Jacob N., assignor to Universal Mail Equipment Company, Lancaster, Pa. Mail-bag catching and delivering apparatus. No. 1,008,546; Nov. 14; Sp. p. 2074; Gaz. vol. 172; p. 355.
Isenhagen, Arnold. (See Moll, Isenhagen, and Rettmeyer.)
Isenhower, Harry R., Bloomfield, Ind. Harness attachment. No. 998,775; July 25; Sp. p. 4762; Gaz. vol. 168; p. 860.
Ish, John L., Rand, Colo. Transmission mechanism. No. 982,501; Jan. 24; Sp. p. 5143; Gaz. vol. 162; p. 887.
Isherwood, Percy C. C., Leytonstone, England. Treatment of refractory zinc-lead ores. No. 1,011,962; Dec. 19; Sp. p. 3516; Gaz. vol. 173; p. 615.
Isler, Max H., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene compounds and making same. No. 1,001,408; Aug. 22; Sp. p. 4757; Gaz. vol. 169; p. 857.
Isler, Max H., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Dianthraquinonyl-dialdehydes and making them. No. 1,004,433; Sept. 26; Sp. p. 4948; Gaz. vol. 170; p. 870.
Isley, George H., assignor to Morgan Construction Company, Worcester, Mass. Feeding mechanism for gas-producers. No. 984,675; Feb. 21; Sp. p. 3088; Gaz. vol. 163; p. 547.
Isley, George H., assignor to Morgan Construction Company, Worcester, Mass. Gas-producer. No. 1,002,697; Sept. 5; Sp. p. 1137; Gaz. vol. 170; p. 172.
Israel, David, New York, N. Y. Fire-escape. No. 983,904; Feb. 14; Sp. p. 1422; Gaz. vol. 163; p. 251.
Israel, Homer W., Waukesha, Wis., assignor to Modern Steel Structural Company. Truck-mounting for traveling cranes. No. 989,155; Apr. 11; Sp. p. 1819; Gaz. vol. 165; p. 315.
Issler, Gotthold. (See Sokolowski and Issler.)
Istvan, Mayer, Coal Center, Pa. Wrench. No. 1,000,811; Aug. 15; Sp. p. 3443; Gaz. vol. 169; p. 619.
Ito, Seykichi W., Brooklyn, N. Y. Pencil-sharpener. No. 986,987; Mar. 14; Sp. p. 2590; Gaz. vol. 164; p. 447.
Itzweire, Gustave, *et al.* (See Lord, Peter, assignor.)
Itzwerre, Gustave, *et al.* (See Lord, Peter, assignor.)
Ivatts, Ernest A., assignor to Society Compagnie Generale De Phonographes, Cinematographes Et Appareils De Precision, Paris, France. Apparatus for suspending films and the like. No. 1,001,957; Aug. 29; Sp. p. 5922; Gaz. vol. 169; p. 1073.
Ivers, John W., assignor of one-half to F. T. Gordon, Oklahoma, Okla. Rocking attachment for baby-carriages. No. 987,234; Mar. 21; Sp. p. 3114; Gaz. vol. 164; p. 564.
Iversen, Lorenz, West Homestead, Pa. Valve for blowing-engines. No. 1,012,359; Dec. 19; Sp. p. 4397; Gaz. vol. 173; p. 753.
Iversen, Lorenz, West Homestead, assignor to Mesta Machine Company, Pittsburg, Pa. Air-valve. No. 982,680; Jan. 24; Sp. p. 5485; Gaz. vol. 162; p. 946.
Iverson, Herman O. (See Albertson and Iverson.)
Ives, Charles G., Norwalk, Conn. Camera exposure-indicator. No. 995,870; June 20; Sp. p. 3894; Gaz. vol. 167; p. 676.
Ives, Edward R., assignor to The Ives Manufacturing Corporation, Bridgeport, Conn. Governor for toy railway-cars. No. 988,940; Apr. 4; Sp. p. 1362; Gaz. vol. 165; p. 218.
Ives, Fred A., Atkinson, Nebr. Tamping device. No. 1,012,360; Dec. 19; Sp. p. 4400; Gaz. vol. 173; p. 753.
Ives, Frederic E., Weehawken, N. J. Trichromatic photographic apparatus. No. 980,961; Jan. 10; Sp. p. 1797; Gaz. vol. 162; p. 299.
Ives, Frederic E., Weehawken, N. J. Producing colored photographic prints in graduated relief. No. 980,962; Jan. 10; Sp. p. 1800; Gaz. vol. 162; p. 300.
Ives Manufacturing Corporation, The. (See Ives, Edward R., assignor.)
Ivey, Robert W., New London, N. C. Window-sash. No. 997,677; July 11; Sp. p. 2253; Gaz. vol. 168; p. 398.
Ivinson, Charles H. (See Bryan and Ivinson.)
Ivor, Barry, Chicago, Ill. Carbureter. No. 986,572; Mar. 14; Sp. p. 1732; Gaz. vol. 164; p. 307.
Ivor, Barry, Chicago, Ill. Force-feed carbureter. No. 1,004,031; Sept. 26; Sp. p. 4060; Gaz. vol. 170; p. 732.
Ivor, Barry, assignor of one-fourth to J. D. Gazzolo and one-fourth to J. D. Hartford, Chicago, Ill. Stamp-affixing machine. No. 1,005,843; Oct. 17; Sp. p. 2785; Gaz. vol. 171; p. 507.
Ivor, Barry, assignor of one-sixth to J. D. Gazzolo, one-sixth to H. Q. Turner, one-sixth to J. D. Hartford, one-sixth to F. Freer, and one-sixth to H. R. McPherson, Chicago, Ill. Primer for hydrocarbon-engines. No. 1,004,032; Sept. 26; Sp. p. 4067; Gaz. vol. 170; p. 733.
Ivory, James W. (See Coney, Jesse D., assignor.)
Ivory, James W., Philadelphia, Pa. Dental matrix-retainer. No. 980,529; Jan. 3; Sp. p. 777; Gaz. vol. 162; p. 124.
Ivory, James W., Philadelphia, Pa. Rubber-dam clamp. No. 980,530; Jan. 3; Sp. p. 778; Gaz. vol. 162; p. 124.

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Ivory, James W., Philadelphia, Pa. Dental cap-crown slitter. No. 1,010,145; Nov. 28; Sp. p. 5501; Gaz. vol. 172; p. 985.
Ivory, James W., Philadelphia, Pa. Pad-holder for dental purposes. No. 1,010,146; Nov. 28; Sp. p. 5502; Gaz. vol. 172; p. 985.
Ivory, James W., Philadelphia, Pa. Pad-holder for dental purposes. No. 1,010,147; Nov. 28; Sp. p. 5503; Gaz. vol. 172; p. 986.
Ivy, T. W., *et al.* (See Markham, Charles E., assignor.)
Izard, Henry, Portland, Oreg. Framing-tool. No. 1,012,858; Dec. 26; Sp. p. 5478; Gaz. vol. 173; p. 969.
Izor, Homer C., Logansport, Ind. Tobacco-plug cutter. No. 990,272; Apr. 25; Sp. p. 4250; Gaz. vol. 165; p. 759.
J. Ellwood Lee Company. (See Eckrode, Clement E., assignor.)
J. George Leyner Engineering Works Company, The. (See Leyner and Knowles, assignors.)
J. Spaulding & Sons Company. (See Lougee, William S., assignor.)
J. A. Fay & Egan Company. (See Thomas, John R., assignor.)
J. B. Colt Company. (See Shaw, Louis E., assignor.)
J. B. Stone Co. (See Diamond, James K., assignor.)
J. B. Williams Company. (See Williams, Philip K., assignor.)
J. C. Blair Company. (See Boring, William F., assignor.)
J. C. Blair Specialty Company. (See Ellis, William V., assignor.)
J. C. Eichman Mfg. Co. (See Paulus, Max H., assignor.)
J. C. McCarty & Co. (See Lane, Willey B., assignor.) (Reissue.)
J. & C. Fischer. (See Mayer, Julian T., assignor.)
J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag. (See Tenow, Adolf J., assignor.)
J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag. (See Tenow and Andersson, assignors.)
J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag. (See Tenow and Boström, assignors.)
J. E. Mergott Company. (See Fuller, Franz A., assignor.)
J. E. Mergott Company, The. (See Hiering and Fuller, assignors.)
J. E. Porter Company. (See Jacobs, William F., assignor.)
J. G. Brill Co., The. (See Adams, Walter S., assignor.)
J. G. Brill Company, The. (See Curwen, Samuel M., assignor.)
J. G. Brill Company, The. (See Grove, William H., assignor.)
J. G. Brill Company, The. (See Heulings, William H., Jr., assignor.)
J. G. Brill Company, The. (See Kling, Louis A., assignor.)
J. G. Brill Company, The. (See Kohler, George B., assignor.)
J. G. Brill Company, The. (See Mackle, William J., assignor.)
J. G. Brill Company, The. (See Wilson, Samuel M., assignor.)
J. H. Bunnell and Company. (See Zundel, Gustave A., assignor.)
J. H. Day Company, The. (See Linden, John J., assignor.)
J. H. Williams & Co. (See Amborn, George, assignor.)
J. I. Case Plow Works. (See Michael, Clement W., as signor.)
J. I. Case Plow Works. (See Sobey, William, assignor.)
J. I. Case Threshing Machine Company. (See Crandall, Henry F., assignor.)
J. L. Mott Iron Works, The. (See Bowman, William J. J., assignor.)
J. L. Mott Iron Works, The. (See Hooper, Louis M., assignor.)
J. M. Dodge Company, The. (See Titcomb, George E., assignor.)
J. M. Dodge Company, The. (See Waechter, Ferdinand F., assignor.)
J. M. Dodge Company, The. (See Waterman, Marcus B., assignor.)
J. M. Dodge Company, The. (See Wetherill, Richard W., assignor.)
J. M. Lehmann Co. (See Hollstein, Paul G., assignor.)
J. M. Parker Manufacturing Company. (See Penniman, George A., assignor.
J. M. Robinson Manufacturing Company, The. (See Frey, Clarence N., assignor.)
J. P. Devine Company. (See Strohn, Emil W., assignor.)
J. P. Devine Company. (See Treichler, Lorin W., assignor.)
J. S. Andrews Company, The. (See McCauley, Albert J., assignor.)
J. S. Schofield's Sons Co. (See Jackson, Percy, assignor.)
J. W. Moore Machine Company, The. (See Currier, Arthur L., assignor.)
J. W. Moore Machine Company, The. (See Moore, Joseph W., assignor.)
Jabschanka, Thomas. (See Homishak, Peter, assignor.)
Jaburg Bros. (See Townsend, Harry E., assignor.)
Jachimovicz, Szymon, Berkeley, assignor of one-half to M. Grodin, Oakland, Cal. Internal-combustion engine. No. 1,001,595; Aug. 22; Sp. p. 5101; Gaz. vol. 169; p. 918.
Jack, Alexander G. M., Brincliffe, Sheffield, England. Cap for armor-piercing projectiles. No. 987,073; Mar. 14; Sp. p. 2746; Gaz. vol. 164; p. 475.
Jack, Clarence E., Louviers, Colo. Centering device for mechanics' turning-lathes. No. 1,000,914; Aug. 15; Sp. p. 3649; Gaz. vol. 169; p. 655.
Jack, Robert E., assignor of one-half to L. Plate, Milwaukee, Wis. Clamping-tool. No. 986,464; Mar. 14; Sp. p. 1498; Gaz. vol. 164; p. 270.
Jackman, Charles C. (See West and Jackman.)
Jackman, William J., Cleveland, Ohio. Music-timing device. No. 991,066; May 2; Sp. p. 495; Gaz. vol. 166; p. 85.
Jacks, Albert L., *et al.* (See Nichols, Jack L., assignor.)
Jackson, Algernon B., London, England. Apparatus for the delivery of aerated liquids from bulk. No. 1,011,963; Dec. 19; Sp. p. 3518; Gaz. vol. 173; p. 616.
Jackson, Benjamin F., Jersey City, N. J., assignor to J. Hardie, Sr., Pittsburg, Pa. Gas-burner. No. 993,687; May 30; Sp. p. 6155; Gaz. vol. 166; p. 1113.
Jackson, Charles, Birkenhead, England. Locking device for boxes or envelops. No. 1,000,006; Aug. 8; Sp. p. 1634; Gaz. vol. 169; p. 307.
Jackson, Charles, Holder, Ill. Scythe and snathe coupling. No. 1,002,518; Sept. 5; Sp. p. 756; Gaz. vol. 170; p. 110.
Jackson, Charles E., Rockford, Ill. Clothes-holding device. No. 989,607; Apr. 18; Sp. p. 2829; Gaz. vol. 165; p. 500.
Jackson, Charles F. D., Jackson, Fla. Trunk, bed, and couch. No. 1,005,709; Oct. 10; Sp. p. 2502; Gaz. vol. 171; p. 429.
Jackson, Charles H., Jetmore, Kans. Poultry-roost. No. 985,595; Feb. 28; Sp. p. 5086; Gaz. vol. 163; p. 899.
Jackson, Charles S., Franklin, assignor to The Advance Bag Company, Middletown, Ohio. Paper-bag machine. No. 983,825; Feb. 7; Sp. p. 1220; Gaz. vol. 163; p. 194.
Jackson, Clarence W., assignor of one-half to J. P. Flynn, Westhope, N. D. Nailing-machine. No. 980,281; Jan. 3; Sp. p. 194; Gaz. vol. 162; p. 38.
Jackson Corset Company. (See Linscott, Charles W., assignor.)
Jackson Cushion Edge Company. (See Rutson, Charles, assignor.)
Jackson, David M., Bloomington, and R. W. Jackson, Danville, Ill. Hydrocarbon-burner. No. 988,572; Apr. 4; Sp. p. 604; Gaz. vol. 165; p. 97.
Jackson, Edward A., Carnegie, Manitoba, Canada. Cattle-guard. No. 1,010,368; Nov. 28; Sp. p. 5951; Gaz. vol. 172; p. 1058.
Jackson, Ernest G., Toronto, Ontario, Canada. Railway-switch. No. 996,858; July 4; Sp. p. 538; Gaz. vol. 168; p. 88.
Jackson Fence Company. (See Mills, Anson C., assignor.)
Jackson, Frank, assignor of one-half to C. B. Faraday, Mountain Home, Idaho. Dirigible support for lamps. No. 983,234; Jan. 31; Sp. p. 6682; Gaz. vol. 162; p. 1160.
Jackson, Franklin B., assignor of one-half to G. R. Brown, Washington, D. C. Means for stripping wall-paper. No. 989,608; Apr. 18; Sp. p. 2830; Gaz. vol. 165; p. 500.
Jackson, Franklin H., assignor to Byron Jackson Iron Works, West Berkeley, Cal. Centrifugal pump. No. 986,827; Mar. 14; Sp. p. 2274; Gaz. vol. 164; p. 394.
Jackson, Fred E., Williamstown, Victoria, Australia. Internal-combustion engine for air-compression purposes. No. 1,003,909; Sept. 19; Sp. p. 3715; Gaz. vol. 170; p. 662.
Jackson, Frederick H. (See Bailey and Jackson.)
Jackson, George, assignor to Cleveland Automatic Street Flushing and Nozzle Company, Cleveland, Ohio. Spraying-head. No. 996,767; July 4; Sp. p. 337; Gaz. vol. 168; p. 57.
Jackson, George W., Chicago, Ill. Arrangement of intercommunicating subway-loops. No. 980,643; Jan. 3; Sp. p. 995; Gaz. vol. 162; p. 162.
Jackson, George W., Chicago, Ill. Reinforced-concrete wall and like structure. No. 995,008; June 13; Sp. p. 2010; Gaz. vol. 167; p. 352.
Jackson, George W., Chicago, Ill. Constructing concrete walls, subways, &c., in the earth. No. 1,007,287; Oct. 31; Sp. p. 6022; Gaz. vol. 171; p. 1099.
Jackson, George W., Chicago, Ill. Lining-wall for shafts. No. 1,009,312; Nov. 21; Sp. p. 3765; Gaz. vol. 172; p. 656.
Jackson, Harry N., Babylon, N. Y. Anchor. No. 1,011,622; Dec. 12; Sp. p. 2797; Gaz. vol. 173; p. 466.
Jackson, Jacob, Green Bay, Wis. Animal-trap. No. 1,000,007; Aug. 8; Sp. p. 1635; Gaz. vol. 169; p. 307.
Jackson, James, Elgin, Nebr. Dispensing-receptacle. No. 1,011,800; Dec. 12; Sp. p. 3149; Gaz. vol. 173; p. 526.
Jackson, James E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Sewing-machine for lasting boots and shoes. No. 985,347; Feb. 28; Sp. p. 4517; Gaz. vol. 163; p. 813.
Jackson, James E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Machine for lasting boots and shoe. No. 985,348; Feb. 28; Sp. p. 4529; Gaz. vol. 163; p. 813.

Alphabetical list of patentees—Continued.

Jackson, James E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Making boots and shoes. No. 1,003,463; Sept. 19; Sp. p. 2782; Gaz. vol. 170; p. 509.
Jackson, James E., Lynn, Mass., assignor, by mesne assignments, to The United Shoe Machinery Company. Machine for lasting boots and shoes. No. 1,011,062; Dec. 5; Sp. p. 1442; Gaz. vol. 173; p. 229.
Jackson, James M., Parkersburg, W. Va. Shock-absorber. No. 986,921; Mar. 14; Sp. p. 2470; Gaz. vol. 164; p. 427.
Jackson, James M., and H. Hunt, Greentown, Ind. Oil-register. No. 996,646; July 4; Sp. p. 108; Gaz. vol. 168; p. 19.
Jackson, Jean S. T., *et al.* (See Ginivin, John P., assignor.)
Jackson, Jesse L., Luck township, Polk county, Wis. Mechanical movement. No. 1,007,108; Oct. 31; Sp. p. 5631; Gaz. vol. 171; p. 1034.
Jackson, John A., assignor of one-half to D. L. Phipps, Chicago, Ill. Coupling-cushion buffer. No. 1,002,062; Aug. 29; Sp. p. 6120; Gaz. vol. 169; p. 1106.
Jackson, John F., Grangeville, and H. Tamm, Mace, Idaho. Wagon-brake. No. 981,088; Jan. 10; Sp. p. 2087; Gaz. vol. 162; p. 344.
Jackson, John L., Columbus, assignor of fifty-one one-hundredths to Springer & Burrus, Muskogee county, Ga. Plow. No. 982,681; Jan. 24; Sp. p. 5487; Gaz. vol. 162; p. 946.
Jackson, Louis F., assignor to Davis-Jackson Supply Company, Denver, Colo. Building-partition. No. 998,293; July 18; Sp. p. 3701; Gaz. vol. 168; p. 660.
Jackson, Lucian C., Buffalo, N. Y. Means for controlling and regulating the operation of gas-engines. No. 1,010,369; Nov. 28; Sp. p. 5952; Gaz. vol. 172; p. 1058.
Jackson, Luther. (See Barker, Dean, Grandage, and Jackson.)
Jackson, Max, Fond du Lac, Wis. Garment-marker. No. 1,006,753; Oct. 24; Sp. p. 4821; Gaz. vol. 171; p. 857.
Jackson, Percy, assignor to J. S. Schofield's Sons Co., Macon, Ga. Drier. No. 1,000,267; Aug. 8; Sp. p. 2224; Gaz. vol. 169; p. 395.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lightning-arrester. No. 981,764; Jan. 17; Sp. p. 3538; Gaz. vol. 162; p. 600.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 990,985; May 2; Sp. p. 329; Gaz. vol. 166; p. 57.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Current-collecting device. No. 995,145; June 13; Sp. p. 2288; Gaz. vol. 167; p. 397.
Jackson, Ray P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 999,792; Aug. 8; Sp. p. 1189; Gaz. vol. 169; p. 234.
Jackson, Richard, assignor of one-half to O. E. Wood, Denver, Colo. Automobile-lamp. No. 1,007,952; Nov. 7; Sp. p. 689; Gaz. vol. 172; p. 106.
Jackson, Rolly W. (See Jackson, David M. and R. W.)
Jackson, Roy C., Dayton, Ohio. Sugar bowl or container. No. 1,007,288; Oct. 31; Sp. p. 6026; Gaz. vol. 171; p. 1099.
Jackson, Simeon S., Readville, Mass. Compensating head-gear for looms. No. 986,634; Mar. 14; Sp. p. 1859; Gaz. vol. 164; p. 330.
Jackson, Simeon S., assignor to The Stafford Company, Readville, Mass. Weft-parter for looms. No. 981,859; Jan. 17; Sp. p. 3751; Gaz. vol. 162; p. 634.
Jackson, Thomas, New Cross, London, assignor to himself, and A. Ramsay, Chesham, England. Mechanism for producing gas-lighted flash-signs and the like for advertising purposes. No. 1,009,313; Nov. 21; Sp. p. 3767; Gaz. vol. 172; p. 656.
Jackson, Thomas B., Scranton, Pa. Street-flushing apparatus. No. 1,006,754; Oct. 24; Sp. p. 4823; Gaz. vol. 171; p. 858.
Jackson, Thomas J., Grand Junction, Colo. Fruit-bag. No. 986,573; Mar. 14; Sp. p. 1737; Gaz. vol. 164; p. 307.
Jackson, Walter E., Lincoln, Nebr. Envelop-sealing machine. No. 988,713; Apr. 4; Sp. p. 922; Gaz. vol. 165; p. 146.
Jackson, William, assignor to The Robert Graves Company, New York, N. Y. Printing-machine. No. 994,590; June 6; Sp. p. 1014; Gaz. vol. 167; p. 169.
Jackson, William A. (See Stover, Mark E., assignor.)
Jackson, William B., Tacoma, Wash. Concentrating fruit-juices. No. 981,860; Jan. 17; Sp. p. 3752; Gaz. vol. 162; p. 634.
Jackson, William B., Des Arc, Ark. Liquid-measuring device. No. 983,058; Jan. 31; Sp. p. 6343; Gaz. vol. 162; p. 1102.
Jackson, William S., *et al.* (See Anck, John M., assignor.)
Jackson, William W., New York, N. Y. Ash-trap for grate-fires. No. 1,004,268; Sept. 26; Sp. p. 4606; Gaz. vol. 170; p. 814.
Jacky, Chester A., Pasadena, Cal., assignor to J. Rupp, Chilton, Wis. Whip attachment. No. 1,001,037; Aug. 22; Sp. p. 3983; Gaz. vol. 169; p. 732.
Jacob, Charles W. (See Schlayer, Charles, assignor.)
Jacob Haish Company. (See Briggs, George H., assignor.)
Jacob, Heinrich, Steglitz, near Berlin, and E. Bernick, assignors to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Attaching device for optical instruments. No. 1,001,958; Aug. 29; Sp. p. 5924; Gaz. vol. 169; p. 1073.
Jacob and Josef Kohn. (See Schmits, Walter D., assignor.)
Jacob and Josef Kohn. (See Schmits, Walter D., assignor.)
Jacobi, Will O., and C. Harris, Chicago, Ill.; said Harris assignor to said Jacobi. Reactance-coil. No. 1,008,270; Nov. 7; Sp. p. 1340; Gaz. vol. 172; p. 219.
Jacobs, Asher C. (See Cones, Charles W., assignor.)
Jacobs, Augustus G., assignor to A. G. Jacobs Cotton Transplanter Company, Jonestown, Miss. Transplanter. No. 985,596; Feb. 28; Sp. p. 5088; Gaz. vol. 163; p. 900.
Jacobs, Charles F., Chicago, Ill. Uniting metal elements. No. 999,309; Aug. 1; Sp. p. 220; Gaz. vol. 169; p. 41.
Jacobs, Charles F., Chicago, Ill. Saw. No. 1,006,558; Oct. 24; Sp. p. 4438; Gaz. vol. 171; p. 792.
Jacobs, Charles M. (See Forest and Jacobs.)
Jacobs, Clarence H., Santa Barbara, Cal. Nutcracking-machine. No. 994,591; June 6; Sp. p. 1015; Gaz. vol. 167; p. 169.
Jacobs, George, assignor, by mesne assignments, to The McCaskey Register Company, Alliance, Ohio. Filing-cabinet. No. 994,749; June 13; Sp. p. 1428; Gaz. vol. 167; p. 264.
Jacobs, Gustav H., Okawville, Ill. Engine-starter. No. 1,001,145; Aug. 22; Sp. p. 4204; Gaz. vol. 169; p. 769.
Jacobs, Heber M., Reading, assignor of one-half to C. R Henery, Harrisburg, Pa. Steering-gear. No. 991,067; May 2; Sp. p. 497; Gaz. vol. 166; p. 86.
Jacobs, Henry W., Topeka, Kans. Combustion-chamber for boilers. No. 984,429; Feb. 14; Sp. p. 2528; Gaz. vol. 163; p. 428.
Jacobs, Henry W., Topeka, Kans. Combined boiler, superheater, and feed-water heater. No. 984,430; Feb. 14; Sp. p. 2530; Gaz. vol. 163; p. 428.
Jacobs, Henry W., Topeka, Kans. Means for forming joints. No. 998,904; July 25; Sp. p. 5053; Gaz. vol. 168; p. 906.
Jacobs, Henry W., Topeka, Kans. Propeller. No. 1,000,602; Aug. 15; Sp. p. 2992; Gaz. vol. 169; p. 547.
Jacobs, Henry W., Topeka, Kans. Cylinder-head. No. 1,002,849; Sept. 12; Sp. p. 1482; Gaz. vol. 170; p. 263.
Jacobs, Henry W., Shreveport, La. Tobacco-pipe. No. 1,013,019; Dec. 26; Sp. p. 5850; Gaz. vol. 173; p. 1023.
Jacobs, Henry W., and F. W. Shupert, Topeka, Kans. Fire-box. No. 982,723; Jan. 24; Sp. p. 5576; Gaz. vol. 162; p. 960.
Jacobs, Henry W., and F. W. Schupert, Topeka, Kans. Fire-box. No. 982,724; Jan. 24; Sp. p. 5580; Gaz. vol. 162; p. 960.
Jacobs, Herman, Baltimore, Md., assignor to The American Seamless Trousers Company, Incorporated, of Maryland. Trousers. No. 1,000,812; Aug. 15; Sp. p. 3445; Gaz. vol. 169; p. 620.
Jacobs, Homer B. (See Raettig, Alfred W., assignor.)
Jacobs, Joe P., Kansas City, Mo. Camp-stove. No. 986,063; Mar. 7; Sp. p. 660; Gaz. vol. 164; p. 103.
Jacobs, Leo, assignor to Acme Cement Plaster Company, St. Louis, Mo. Automatic weighing-machine. No. 993,069; May 23; Sp. p. 4807; Gaz. vol. 166; p. 873.
Jacobs, Lyon W., *et al.* (See Pascal, Israel, assignor.)
Jacobs, Morris, New York, N. Y. Self-locking nut. No. 982,502; Jan. 24; Sp. p. 5147; Gaz. vol. 162; p. 887.
Jacobs, Morris, Boston, Mass. Bolt-lock. No. 1,003,748; Sept. 19; Sp. p. 3413; Gaz. vol. 170; p. 608.
Jacobs, Olaus B., Cleveland, assignor of two-ninths to E. C. Mullendore, Oklahoma, Okla. Fuel-feeding means for explosive-engines. No. 990,741; Apr. 25; Sp. p. 5333; Gaz. vol. 165; p. 920.
Jacobs, Olaus B., Cleveland, assignor of two-ninths to E. C. Mullendore, Oklahoma, Okla. Cooling system for explosive-engines. No. 990,742; Apr. 25; Sp. p. 5337; Gaz. vol. 165; p. 921.
Jacobs, Percy von, *et al.* (See Feierabend, Helene, assignor.)
Jacobs, Samuel T. (See McLaughlin, James, assignor.)
Jacobs-Shupert U. S. Fire Box Company. (See Huston, Charles L., assignor.)
Jacobs, William F., New York, N. Y. Necktie-retainer. No. 981,274; Jan. 10; Sp. p. 2528; Gaz. vol. 162; p. 411.
Jacobs, William F., assignor to J. E. Porter Company, Ottawa, Ill. Feed and litter carrier. No. 981,272; Jan. 10; Sp. p. 2525; Gaz. vol. 162; p. 411.
Jacobs, William F., assignor to J. E. Porter Company, Ottawa, Ill. Switch-track for hay and other similar carriers. No. 981,273; Jan. 10; Sp. p. 2526; Gaz. vol. 162; p. 411.
Jacobs, William F., Ottawa, Ill., assignor to J. E. Porter Company. Cross-draft hay-carrier. No. 988,573; Apr. 4; Sp. p. 606; Gaz. vol. 165; p. 98.
Jacobs, William M., Vale, Oreg. Surveyor's level. No. 994,521; June 6; Sp. p. 858; Gaz. vol. 167; p. 145.

Alphabetical list of patentees—Continued.

Jacobsen, Frederick R., Portland, Oreg. Pipe-bending tool. No. 985,597; Feb. 28; Sp. p. 5089; Gaz. vol. 163; p. 900.
Jacobsen, Jacob, San Francisco, Cal. Rotary internal-combustion engine. No. 997,824; July 11; Sp. p. 2621; Gaz. vol. 168; p. 450.
Jacobsen, Jens N., Eureka, Cal. Butter-molding machine. No. 1,012,556; Dec. 19; Sp. p. 4775; Gaz. vol. 173; p. 820.
Jacobsen, Richard, Chicago, Ill. Four-way cock. No. 1,005,549; Oct. 10; Sp. p. 2134; Gaz. vol. 171; p. 374.
Jacobsen, Soren S., Beaver, Pa. Electroplating apparatus. No. 981,196; Jan. 10; Sp. p. 2316; Gaz. vol. 162; p. 382.
Jacobson, Abraham. (See Korf and Jacobson.)
Jacobson, Allan F., New York, N. Y. Electric heater. No. 1,007,446; Oct. 31; Sp. p. 6363; Gaz. vol. 171; p. 1155.
Jacobson, Andrew, Council Bluffs, Iowa. Apparatus for delivering liquid in measured quantities. No. 1,001,853; Aug. 29; Sp. p. 5671; Gaz. vol. 169; p. 1038.
Jacobson-Brandow Company. (See Jacobson, Edward B., assignor.)
Jacobson, Carl A., and S. C. Dinsmore, Reno, Nev. Separatory apparatus. No. 984,923; Feb. 21; Sp. p. 3594; Gaz. vol. 163; p. 634.
Jacobson, Edward B., assignor to Jacobson-Brandow Company, Pittsfield, Mass. Vibrator for induction-coils. No. 999,565; Aug. 1; Sp. p. 740; Gaz. vol. 169; p. 127.
Jacobson, Era C., Louisville, Ky. Steam-boiler. No. 994,403; June 6; Sp. p. 630; Gaz. vol. 167; p. 108.
Jacobson, Louis, Los Angeles, Cal. Heater. No. 1,002,519; Sept. 5; Sp. p. 757; Gaz. vol. 170; p. 111.
Jacobson, Michael S., Dunkirk, N. Y. Cuspidor-holder. No. 988,714; Apr. 4; Sp. p. 923; Gaz. vol. 165; p. 146.
Jacobson, Nels, Bagley, Mich. Picture-hanger. No. 1,010,633; Dec. 5; Sp. p. 522; Gaz. vol. 173; p. 82.
Jacobson, Sydney J., assignor to J. H. Bruninga, trustee, Washington, D. C. Projecting apparatus. No. 996,647; July 4; Sp. p. 109; Gaz. vol. 168; p. 19.
Jacobus, Alvah B., Kansas City, Mo. Gas-alarm. No. 986,715; Mar. 14; Sp. p. 2032; Gaz. vol. 164; p. 356.
Jacobus, David S. (See Sewall and Jacobus.)
Jacobus, William, Paterson, N. J. Lock-nut. No. 983,497; Feb. 7; Sp. p. 514; Gaz. vol. 163; p. 82.
Jacomin, Joseph, Lyon, France. Fastener. No. 981,654; Jan. 17; Sp. p. 3305; Gaz. vol. 162; p. 561.
Jacoviello, Felice, Parma, Italy. Device for producing high-frequency oscillatory currents. No. 1,004,170; Sept. 26; Sp. p. 4417; Gaz. vol. 170; p. 781.
Jacquerod, Paul C., West New York, N. J., assignor to H. M. De Wart, New York, N. Y. Mechanical eyes. No. 1,008,471; Nov. 14; Sp. p. 1924; Gaz. vol. 172; p. 329.
Jadronja, Mark, New York, N. Y., assignor of one-half to E. E. Van Note, Point Pleasant, N. J. Combined lock and retaining device. No. 1,000,268; Aug. 8; Sp. p. 2227; Gaz. vol. 169; p. 396.
Jadronja, Mark G., New York, assignor of one-fifth to J. Sessa, Brooklyn, N. Y. Lock. No. 1,007,447; Oct. 31; Sp. p. 6364; Gaz. vol. 171; p. 1155.
Jaeger, Carl, Seattle, Wash. Electric battery. No. 986,064; Mar. 7; Sp. p. 662; Gaz. vol. 164; p. 106.
Jaeger, Gustav A., Morrison, Ill. Can-opener. No. 987,883; Mar. 28; Sp. p. 4510; Gaz. vol. 164; p. 815.
Jaeger, Michael, Darmstadt, Germany. Animal-trap. No. 999,651; Aug. 1; Sp. p. 894; Gaz. vol. 169; p. 155.
Jaeger, Nellie E., Philadelphia, Pa. Dress-measuring device. No. 980,963; Jan. 10; Sp. p. 1802; Gaz. vol. 162; p. 300.
Jaeger, Otto, Norristown, assignor to The Underwriters Company, Philadelphia, Pa. Vending apparatus. No. 1,007,873; Nov. 7; Sp. p. 521; Gaz. vol. 172; p. 79.
Jaeger, Samuel W., Bayonne, N. J. Manger. No. 988,715; Apr. 4; Sp. p. 925; Gaz. vol. 165; p. 146.
Jaegle, William C., New York assignor, by mesne assignments, to L. Opperman, Brooklyn, N. Y. Ribbon-cutter. No. 995,465; June 20; Sp. p. 2982; Gaz. vol. 167; p. 533.
Jaenichen, Louis, assignor to Standard Computing Scale Company, Limited, Detroit, Mich. Scale. No. 994,926; June 13; Sp. p. 1843; Gaz. vol. 167; p. 324.
Jaenichen, Louis, and B. W. King, assignors to Standard Computing Scale Company, Limited, Detroit, Mich. Scale. No. 998,008; July 18; Sp. p. 3053; Gaz. vol. 168; p. 556.
Jaenisch, Heinrich, Kaiserslautern, Germany. Cooling device for cooling the bung-rings of transport-casks during pitching. No. 1,001,526; Aug. 22; Sp. p. 4955; Gaz. vol. 169; p. 895.
Jaesschin, Hugo, Berlin, and O. Kaltwasser, Dessau, Germany, assignors to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Monoazo dye. No. 1,003,266; Sept. 12; Sp. p. 2383; Gaz. vol. 170; p. 410.
Jaffe, Jacob, New York, N. Y. Measuring device for spectacles and eyeglasses. No. 993,252; May 23; Sp. p. 5182; Gaz. vol. 166; p. 931.
Jagenberg, Emil, Dusseldorf, Germany. Machine for filling and closing paper bags. No. 981,765; Jan. 17; Sp. p. 3540; Gaz. vol. 162; p. 600.
Jagenberg, Emil, Dusseldorf, Germany. Machine for securing neck-strips to boxes. No. 996,768; July 4; Sp. p. 338; Gaz. vol. 168; p. 57.
Jagenberg, Emil, Dusseldorf, Germany. Machine for attaching reinforcing-slips to box-covering strips. No. 1,000,603; Aug. 15; Sp. p. 2997; Gaz. vol. 169; p. 547.
Jagenberg, Emil, Dusseldorf, Germany. Label gumming and attaching machine. No. 1,001,854; Aug. 29; Sp. p. 5674; Gaz. vol. 169; p. 1038.
Jagenberg, Emil, Dusseldorf, Germany. Bag-filling machine. No. 1,001,855; Aug. 29; Sp. p. 5675; Gaz. vol. 169; p. 1039.
Jagenberg, Emil, Dusseldorf, Germany. Paper-box machine. No. 1,001,856; Aug. 29; Sp. p. 5677; Gaz. vol. 169; p. 1039.
Jagenberg, Emil, Dusseldorf, Germany. Machine for securing covering-strips to cans. No. 1,007,109; Oct. 31; Sp. p. 5632; Gaz. vol. 171; p. 1034.
Jagenberg, Ferdinand E., Dusseldorf, Germany. Machine for pasting labels or bands on filled bottles. No. 987,235; Mar. 21; Sp. p. 3115; Gaz. vol. 164; p. 565.
Jäger, Franz, Suhl, Germany. Hinge for tilting-barrel guns. No. 1,004,269; Sept. 26; Sp. p. 4606; Gaz. vol. 170; p. 814.
Jaggars, James W., Logan, Ala. Book-leaf holder. No. 994,404; June 6; Sp. p. 632; Gaz. vol. 167; p. 108.
Jagger, Joseph, Poughkeepsie, N. Y. Jacquard loom. No. 981,766; Jan. 17; Sp. p. 3544; Gaz. vol. 162; p. 601.
Jagger, Saul, Baleville, N. J. Manure-carrier. No. 982,069; Jan. 17; Sp. p. 4240; Gaz. vol. 162; p. 706.
Jaggers, Robert G., Sonora, Ky. Wire-clamping stretcher. No. 1,010,915; Dec. 5; Sp. p. 1154; Gaz. vol. 173; p. 181.
Jahn Automatic Train Line Recharging and Brake Retaining Device Company, The. (See Jahn, Leroy B., assignor.)
Jahn, Berthold, New Britain, Conn. Hand-vise. No. 998,248; July 18; Sp. p. 3577; Gaz. vol. 168; p. 641.
Jahn, Berthold, New Britain, Conn. Message-box. No. 1,010,916; Dec. 5; Sp. p. 1155; Gaz. vol. 173; p. 181.
Jahn, Leroy B., Montevideo, Minn., assignor to The Jahn Automatic Train Line Recharging and Brake Retaining Device Company. Train-line recharging and brake-retaining device. No. 1,002,274; Sept. 5; Sp. p. 194; Gaz. vol. 170; p. 25.
Jahn, Stephan, Charlottenburg, assignor to Aktiengesellschaft Mix & Genest, Telephon- und Telegraphen Werke, Berlin, Germany. Pickling aluminum and its alloys prior to galvanizing or coating the same with other metals. No. 1,011,203; Dec. 12; Sp. p. 1804; Gaz. vol. 173; p. 314.
Jahnke, Albert A., Richmond, Cal., assignor, by mesne assignments, to National Wireless Telephone & Telegraph Co. Telephone-transmitter. No. 1,007,030; Oct. 24; Sp. p. 5436; Gaz. vol. 171; p. 953.
Jahnke, Albert A., Richmond, Cal., assignor, by mesne assignments, to National Wireless Telephone & Telegraph Co. Microphone-transmitter. No. 1,007,031; Oct. 24; Sp. p. 5438; Gaz. vol. 171; p. 953.
Jahnke, Otto, Kattowitz, Germany. Flange-joint. No. 1,004,270; Sept. 26; Sp. p. 4607; Gaz. vol. 170; p. 815.
Jahrmarkt, Friedrich M. (See Oberreit and Jahrmarkt.)
Jakobsen, Jakob P., and H. F. Jensen, Copenhagen, Denmark. Electric switch. No. 1,003,111; Sept. 12; Sp. p. 2051; Gaz. vol. 170; p. 353.
Jakobsen, Jorgen B., administrator. (See Rosvold, John A.)
Jakobsson, Herman G. (See Meigs and Jakobsson.)
Jalonick, Hartwell, El Paso, Tex. Circulating-fan. No. 997,678; July 11; Sp. p. 2254; Gaz. vol. 168; p. 398.
Jam, Hoyl, Bakersfield, Cal. Combined drill and under-reamer for wells. No. 1,002,152; Aug. 29; Sp. p. 6279; Gaz. vol. 169; p. 1135.
Jam, Hoyl, Bakersfield, Cal. Perforator for well-casings. No. 1,002,153; Aug. 29; Sp. p. 6280; Gaz. vol. 169; p. 1136.
Jamerson, El'Louise, New York, N. Y. Sewing-receptacle. No. 1,001,645; Aug. 29; Sp. p. 5208; Gaz. vol. 169; p. 966.
James, Allen, Caple, Okla. Vehicle-wheel. No. 1,002,154; Aug. 29; Sp. p. 6281; Gaz. vol. 169; p. 1136.
James B. Clow & Sons. (See Pleins, Leo H., assignor.)
James B. Clow & Sons. (See Sherk, Henry H., assignor.)
James Barrett Manufacturing Company. (See O'Brien, Patrick J., assignor.)
James Boyd & Brother. (See Poultney, John L., assignor.)
James, Clark. (See Tolleson and James.)
James, Clark, Manhattan, Nev. Rail-joint. No. 989,014; Apr. 11; Sp. p. 1516; Gaz. vol. 165; p. 266.
James, Daniel D., Mattoon, Ill. Well-strainer. No. 1,012,557; Dec. 19; Sp. p. 4781; Gaz. vol. 173; p. 821.
James, David. (See Burke and James.)
James, David R., *et al.* (See Dean, John F., assignor.)
James, David R. (See Williams, David A., assignor.)
James, David, and W. A. Peters, Chicago, Ill. Photographic developing-tank. No. 1,000,734; Aug. 15; Sp. p. 3273; Gaz. vol. 169; p. 592.
James, Edgar, Lincolnton, N. C. Plow. No. 996,718; July 4; Sp. p. 244; Gaz. vol. 168; p. 42.
James, Edgar, assignor of one-half to R. E. Costner, Lincolnton, N. C. Power-transmission mechanism. No. 990,814; Apr. 25; Sp. p. 5490; Gaz. vol. 165; p. 946.

Alphabetical list of patentees—Continued.

James, Edgar, assignor of one-half to R. E. Costner, Lincolnton, N. C. Engine. No. 996,648; July 4; Sp. p. 111; Gaz. vol. 168; p. 20.
James, Edward, Cleveland, Ohio. Flexible metal tubing. No. 992,426; May 16; Sp. p. 3437; Gaz. vol. 166; p. 619.
James, Edward, New York, N. Y. Attaching device for razor-strops. No. 1,004,171; Sept. 26; Sp. p. 4418; Gaz. vol. 170; p. 781.
James, Frank S., Grass Valley, Cal. Tie-plate. No. 1,006,947; Oct. 24; Sp. p. 5267; Gaz. vol. 171; p. 926.
James, George C., Cincinnati, Ohio. Feed-guide. No. 1,000,915; Aug. 15; Sp. p. 3650; Gaz. vol. 169; p. 656.
James H. Smith & Sons Company. (See Filson, Charles P., assignor.)
James, Henry D., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electric-motor control. No. 992,201; May 16; Sp. p. 2904; Gaz. vol. 166; p. 540.
James, Henry D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control for electric motors. No. 1,010,263; Nov. 28; Sp. p. 5724; Gaz. vol. 172; p. 1024.
James, Henry D., Pittsburg, and E. Lehr, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of electric-motor control. No. 992,202; May 16; Sp. p. 2906; Gaz. vol. 166; p. 541.
James, Homer E., *et al.* (See Cobb, Alfred L., assignor.)
James, Howard P., *et al.* (See Cobb, Alfred L., assignor.)
James, John E., Bolton, England. Electrical arrangement for protecting ships' bottoms from barnacles or aquatic life and such like. No. 994,405; June 6; Sp. p. 633; Gaz. vol. 167; p. 108.
James, John E., Chisholm, Minn. Pipe-wrench. No. 1,006,755; Oct. 24; Sp. p. 4824; Gaz. vol. 171; p. 858.
James Leckie & Son Company. (See Gilbert and Lindley, assignors.)
James, William D., Fort Atkinson, Wis. Stanchion-supporting frame. No. 1,002,275; Sept. 5; Sp. p. 197; Gaz. vol. 170; p. 26.
James, William H., Cincinnati, Ohio. Downdraft-furnace. No. 981,275; Jan. 10; Sp. p. 2528; Gaz. vol. 162; p. 412.
James, William H., Cincinnati, Ohio. Underfeed grate device for heating-furnaces. No. 990,815; Apr. 25; Sp. p. 5493; Gaz. vol. 165; p. 946.
James, William N., Sallisaw, Okla. Cotton-seed conveyer. No. 988,101; Mar. 28; Sp. p. 5016; Gaz. vol. 164; p. 889.
Jameson, Alexander, Indianapolis, Ind. Casting apparatus. No. 990,816; Apr. 25; Sp. p. 5495; Gaz. vol. 165; p. 947.
Jameson, Clarence. (See Spates, Charles D., assignor.)
Jameson, Thomas F., Weeping Water, Nebr. Metal building-corner. No. 985,898; Mar. 7; Sp. p. 300; Gaz. vol. 164; p. 48.
Jameson, William A., Niagara Falls, N. Y. Liquid-dispensing vessel. No. 1,009,070; Nov. 21; Sp. p. 3220; Gaz. vol. 172; p. 571.
Jamieson, Bertrand G., Chicago, Ill. Electrical measuring installation. No. 989,711; Apr. 18; Sp. p. 3037; Gaz. vol. 165; p. 535.
Jamieson, Bertrand G., and C. A. Keller, Chicago, Ill. Electric heater. No. 997,194; July 4; Sp. p. 1254; Gaz. vol. 168; p. 204.
Jamieson, Robert, Anaconda, Mont. Drill-swage. No. 1,003,048; Sept. 12; Sp. p. 1911; Gaz. vol. 170; p. 330.
Jamieson, William D. (See Morris and Jamieson.)
Jamison, John A., Wilkinsburg, Pa. Rail-bond. No. 983,235; Jan. 31; Sp. p. 6683; Gaz. vol. 162; p. 1161.
Jamison, Robert G., assignor of one-half to W. E. Stanley, Pittsburgh, Pa. Hobby-horse velocipede. No. 1,011,204; Dec. 12; Sp. p. 1805; Gaz. vol. 173; p. 314.
Jamison, Rollie M., and E. Michaelis, Monterey, Cal. Coin-receptacle. No. 987,369; Mar. 21; Sp. p. 3400; Gaz. vol. 164; p. 610.
Jamnicky, Gábor, New York, N. Y. Apparatus for cleaning sewer-pipes. No. 999,652; Aug. 1; Sp. p. 896; Gaz. vol. 169; p. 156.
Jancovius, George T. (See Mead, Theodore, Jr., assignor.)
Jandrier, Edmond, and G. S. Merrill, Peace Dale, R. I. Charge for projectiles. No. 1,010,430; Dec. 5; Sp. p. 56; Gaz. vol. 173; p. 12.
Jandus, William, Cleveland, Ohio. Means for converting electrical energy into mechanical movement. No. 992,427; May 16; Sp. p. 3441; Gaz. vol. 166; p. 619.
Jandus, William, Cleveland, Ohio. Hygrometer. No. 1,005,550; Oct. 10; Sp. p. 2135; Gaz. vol. 171; p. 375.
Janecek, Ludwig, assignor of one-half to F. Dolezal, Fremont, Nebr. Acetylene-generator. No. 991,621; May 9; Sp. p. 1709; Gaz. vol. 166; p. 314.
Janesville Machine Company, The, *et al.* (See Platt and Rodemeyer, assignors.)
Jänich, Friedrich G., Rheydt, near Dusseldorf, Germany, assignor to O. Von Mülmann, Brussels, Belgium. Apparatus for purifying air. No. 1,001,038; Aug. 22; Sp. p. 3984; Gaz. vol. 169; p. 733.
Janisch, Leopold, and W. Linke, Berlin, Germany, assignors to General Electric Company. System of motor control. No. 1,003,464; Sept. 19; Sp. p. 2784; Gaz. vol. 170; p. 509.
Janisch, Maximillian P., Milwaukee, Wis. Milk-receptacle. No. 988,102; Mar. 28; Sp. p. 5018; Gaz. vol. 164; p. 890.
Janishefski, Andrew, Chicopee Falls, Mass. Headlight-controller. No. 1,004,878; Oct. 3; Sp. p. 730; Gaz. vol. 171; p. 117.
Jankiewitz, Michael, Manistee, Mich. Railway-tie. No. 980,788; Jan. 3; Sp. p. 1305; Gaz. vol. 162; p. 210.
Jännert, Gustav, Leipzig, Germany. Razor. No. 1,003,749; Sept. 19; Sp. p. 3414; Gaz. vol. 170; p. 608.
Janney, Frank G., Salt Lake City, Utah. Ore-classifier. No. 984,222; Feb. 14; Sp. p. 2111; Gaz. vol. 163; p. 358.
Janney, Reynold, New York, N. Y. Telemotor. No. 985,899; Mar. 7; Sp. p. 300; Gaz. vol. 164; p. 49.
Janney, Reynold, New York, N. Y. Telemotor. No. 986,065; Mar. 7; Sp. p. 662; Gaz. vol. 164; p. 106.
Janney, Robert E. L., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Car-coupling. No. 991,783; May 9; Sp. p. 2036; Gaz. vol. 166; p. 366.
Janney, Robert E. L., assignor to American Steel Foundries, Chicago, Ill. Car-coupling. No. 1,010,055; Nov. 28; Sp. p. 5329; Gaz. vol. 172; p. 955.
Janney, Robert E. L., assignor to American Steel Foundries, New York, N. Y. Car-coupling. No. 1,010,056; Nov. 28; Sp. p. 5330; Gaz. vol. 172; p. 955.
Janney, Robert E. L., Chicago, Ill., and E. P. Kinne, Alliance, Ohio, assignors to American Steel Foundries, Chicago, Ill. Car-coupling. No. 991,782; May 9; Sp. p. 2034; Gaz. vol. 166; p. 366.
Jansen, J. H., *et al.* (See Kuehny, Charles O., assignor.)
Jansen, Johannes, and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 981,276; Jan. 10; Sp. p. 2531; Gaz. vol. 162; p. 412.
Jansen, Victor W., North Bend, Nebr. Grain-bin door. No. 1,010,431; Dec. 5; Sp. p. 57; Gaz. vol. 173; p. 12.
Janssen, Ben W., Wentworth, S. D. Auto drive mechanism. No. 995,009; June 13; Sp. p. 2012; Gaz. vol. 167; p. 353.
Janssen, Ernest C., *et al.* (See Crecelius, Louis J., assignor.)
Jantz, Gustave H., Wyoming, Ohio. Clothes wringer and mangle. No. 1,004,271; Sept. 26; Sp. p. 4609; Gaz. vol. 170; p. 815.
Jantzen, Georg, assignor to Buderus'sche Eisenwerke, Wetzlar, Germany. Apparatus for atomizing liquid slag. No. 982,964; Jan. 31; Sp. p. 6118; Gaz. vol. 162; p. 1069.
Janvrin, William H., Warrensburg, Ill. Removable and adjustable wagon side. No. 996,342; June 27; Sp. p. 4950; Gaz. vol. 167; p. 871.
Janzen, Franz, *et al.* (See Lease, John C., assignor.)
Japanese Tissue Mills. (See Pope, Charles E., assignor.)
Jaques, Fernando O., Jr., Cranston, R. I. Alligator-wrench. No. 990,050; Apr. 18; Sp. p. 3768; Gaz. vol. 165; p. 651.
Jaques, Fernando O., Jr., Cranston, R. I. Expansion-reamer. No. 1,005,223; Oct. 10; Sp. p. 1403; Gaz. vol. 171; p. 257.
Jaques, Fernando O., Jr., Cranston, assignor of one-half to A. P. Mowry, Providence, R. I. Thread-cutting tool. No. 998,520; July 18; Sp. p. 4170; Gaz. vol. 168; p. 737.
Jaques, Fernando O., Jr., Cranston, assignor to The United States Patented Inventions Co., Providence, R. I. Nut-lock. No. 998,905; July 25; Sp. p. 5055; Gaz. vol. 168; p. 907.
Jaques, Fernando O., Jr., Cranston, assignor to The United States Patented Inventions Co., Providence, R. I. Nut-lock. No. 1,010,264; Nov. 28; Sp. p. 5726; Gaz. vol. 172; p. 1024.
Jaques, Fernando O., Jr., Cranston, assignor to E. E. Pierce, Providence, R. I. Paring and slicing knife. No. 1,008,599; Nov. 14; Sp. p. 2208; Gaz. vol. 172; p. 376.
Jaques, Fernando O., Sr., Cranston, R. I. Micrometer-calipers. No. 990,655; Apr. 25; Sp. p. 5146; Gaz. vol. 165; p. 892.
Jaques, William, Royersford, Pa. Flue-cleaner for stoves and ranges. No. 983,143; Jan. 31; Sp. p. 6493; Gaz. vol. 162; p. 1129.
Jardin, Edward J., Brooklyn, N. Y. Combined bed and stretcher. No. 984,374; Feb. 14; Sp. p. 2428; Gaz. vol. 163; p. 410.
Jardine, Charles H. (See Knight and Jardine.)
Jardine, Joseph B., Jr., San Francisco, Cal., assignor, by mesne assignments, to Western Desert Mining Company. Dry concentrator. No. 994,406; June 6; Sp. p. 635; Gaz. vol. 167; p. 108.
Jarman, Alfred J., assignor of one-half to J. F. Wickens, New York, N. Y. Making printing blocks and stamps. No. 1,000,916; Aug. 15; Sp. p. 3653; Gaz. vol. 169; p. 656.
Jarmin, James B., Spokane, Wash. Culvert. No. 1,012,859; Dec. 26; Sp. p. 5480; Gaz. vol. 173; p. 970.
Jarmin, James B., Spokane, Wash., assignor of one-half to J. S. Beall, Portland, Oreg. Metal culvert. No. 983,623; Feb. 7; Sp. p. 788; Gaz. vol. 163; p. 125.
Jarrell, James R., Easton, Md. Cuff-holder. No. 988,103; Mar. 28; Sp. p. 5019; Gaz. vol. 164; p. 890.
Jarrett, Jefferson D., Trenton, Ga. Vehicle-brake. No. 1,001,527; Aug. 22; Sp. p. 4956; Gaz. vol. 169; p. 895.

Alphabetical list of patentees—Continued.

Jarvis, Charles H., assignor to H. W. Hancock, Charlotte, Mich. Valve. No. 1,010,917; Dec. 5; Sp. p. 1159; Gaz. vol. 173; p. 181.
Jarvis, Denzil J., *et al.* (See Ionides, Alexander G., assignor.)
Jarvis, Harold, and M. H. Blakeslee, Buffalo, N. Y.; said Blakeslee assignor to said Jarvis. Tabulating attachment for type-writers. No. 997,622; July 11; Sp. p. 2135; Gaz. vol. 168; p. 379.
Jarvis, Joseph A., Lynn, Mass. Chuck. No. 981,566; Jan. 10; Sp. p. 3135; Gaz. vol. 162; p. 511.
Jarvis, Marion. (See Buchanan and Jarvis.)
Jarvis, Marshall N. (See Durrenberger, Georeger, assignor.)
Jarvis, Robert C., Los Angeles, Cal. Spring-wheel. No. 1,000,008; Aug. 8; Sp. p. 1638; Gaz. vol. 169; p. 307.
Jarvis, Robert C., Los Angeles, Cal. Spring-wheel. No. 1,007,032; Oct. 24; Sp. p. 5439; Gaz. vol. 171; p. 953.
Jas. Clark Jr. Electric Company. (See Willey, Charles E., assignor.)
Jas. H. Matthews & Co. (See Matthews, Thomas O., assignor.)
Jasper, Engelbert, Jr., Hagen, Westphalia, Germany. Swimming appliance. No. 1,011,964; Dec. 19; Sp. p. 3519; Gaz. vol. 173; p. 616.
Jasper, Rachel, New York, N. Y. Crystal-closet bracket. No. 1,002,063; Aug. 29; Sp. p. 6121; Gaz. vol. 169; p. 1106.
Jass, Carl, Horicon, Wis. Covering-roller. No. 995,871; June 20; Sp. p. 3896; Gaz. vol. 167; p. 676.
Jass, Carl, Horicon, Wis. Pulverizing-roller. No. 996,038; June 20; Sp. p. 4225; Gaz. vol. 167; p. 734.
Jass, Carl, Horicon, Wis. Controller-box. No. 1,009,668; Nov. 21; Sp. p. 4508; Gaz. vol. 172; p. 776.
Jatunn, Frank W., Los Angeles, Cal. Flying-machine. No. 992,874; May 23; Sp. p. 4382; Gaz. vol. 166; p. 805.
Jaubert, George F., Paris, France, assignor to Electric Boat Company. Utilizing steam-engines for the propulsion of submarines. No. 994,407; June 6; Sp. p. 630; Gaz. vol. 167; p. 109.
Jauch, Thomas, and B. Rosenfelder, Schweningen, Germany. Ladder. No. 985.349; Feb. 28; Sp. p. 4534; Gaz. vol. 163; p. 813.
Jay, Edgar, London, England. Loose-leaf binder for transfer-cases, files, and the like. No. 996,020; June 20; Sp. p. 4184; Gaz. vol. 167; p. 727.
Jay, Harry B., assignor to Harry B. Jay Company, Chicago, Ill. Musical wind instrument. No. 1,003,049; Sept. 12; Sp. p. 1913; Gaz. vol. 170; p. 330.
Jay, Isaac, Pendleton, Oreg. Resilient wheel. No. 1,009,314; Nov. 21; Sp. p. 3768; Gaz. vol. 172; p. 657.
Jay, William H., Le Beau, S. D. Combination coat, hat, package, and satchel cabinet. No. 1,008,271; Nov. 7; Sp. p. 1342; Gaz. vol. 172; p. 220.
Jay, William N., Moscow, Idaho. Wrench. No. 983,447; Feb. 7; Sp. p. 410; Gaz. vol. 163; p. 66.
Jayme, John P., Pittsburg, Pa. Sharpening device for lawn-mowers. No. 990,559; Apr. 25; Sp. p. 4930; Gaz. vol. 165; p. 860.
Jeance, Maurice. (See Colin and Jeance.)
Jeanson, John E., Hicksville, N. Y. Liquid-separator. No. 985,598; Feb. 28; Sp. p. 5090; Gaz. vol. 163; p. 900.
Jeavons, William R., Cleveland, Ohio. Oven-door. No. 1,008,414; Nov. 14; Sp. p. 1774; Gaz. vol. 172; p. 308.
Jeavons, William R., and A. R. Whittaker, Cleveland, Ohio. Stove attachment. No. 996,087; June 27; Sp. p. 4338; Gaz. vol. 167; p. 785.
Jeffcott, Lewis B., New York, N. Y. Convertible bed and davenport. No. 1,012,558; Dec. 19; Sp. p. 4782; Gaz. vol. 173; p. 821.
Jefferies, Fredrick L., Granite City, Ill., assignor to Corn Products Refining Company. Steeping grain in the manufacture of starch. No. 1,007,782; Nov. 7; Sp. p. 294; Gaz. vol. 172; p. 47.
Jefferies, Fredrick L., Granite City, Ill., assignor to Corn Products Refining Company. Steeping apparatus. No. 1,007,783; Nov. 7; Sp. p. 299; Gaz. vol. 172; p. 47.
Jefferies, Fredrick L., Granite City, Ill., assignor to Corn Products Refining Company. Washing and concentrating starch. No. 1,007,784; Nov. 7; Sp. p. 303; Gaz. vol. 172; p. 48.
Jefferies, Fredrick L., Granite City, Ill., assignor to Corn Products Refining Company. Apparatus for washing, separating, and concentrating starch. No. 1,007,785; Nov. 7; Sp. p. 307; Gaz. vol. 172; p. 48.
Jeffers, Harry I., assignor of one-half to W. F. May, Fort Smith, Ark. Building construction. No. 1,003,607; Sept. 19; Sp. p. 3106; Gaz. vol. 170; p. 559.
Jefferson, Eugene D., Lowell, Mass. Bleaching cloth. No. 992,133; May 9; Sp. p. 2741; Gaz. vol. 166; p. 485.
Jefferson, William T., Evanston, Ill. Artificial bait. No. 994,927; June 13; Sp. p. 1846; Gaz. vol. 167; p. 324.
Jeffery, Charles T., *et al.*, executors. (See Jeffery, Thomas B.)
Jeffery, Everett E., Franklin, Ind. Animal-inclosure. No. 980,789; Jan. 3; Sp. p. 1306; Gaz. vol. 162; p. 210.
Jeffery, Harold W., *et al.*, executors. (See Jeffery, Thomas B.)
Jeffery, Kate E., *et al.*, executors. (See Jeffery, Thomas B.)
Jeffery, Thomas B. (See Purdy, Frederick, assignor.)
Jeffery, Thomas B. (See Symmonds, Robert, Jr., assignor.)
Jeffery, Thomas B., deceased, Kenosha, Wis.; K. E., C. T., and H. W. Jeffery, executors. Vehicle-wheel. No. 995,010; June 13; Sp. p. 2014; Gaz. vol. 167; p. 353.
Jeffre, Joseph, Grand Rapids, Mich. Heel-plate. No. 999,566; Aug. 1; Sp. p. 742; Gaz. vol. 169; p. 128.
Jeffrey, Fraser, Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 1,012,257; Dec. 19; Sp. p. 4184; Gaz. vol. 173; p. 718.
Jeffrey, Harry, Louisville, Ky. Railway-spike. No. 990,137; Apr. 18; Sp. p. 3935; Gaz. vol. 165; p. 679.
Jeffrey Manufacturing Company, The. (See Fisher, Dudley T., assignor.)
Jeffrey Manufacturing Company, The. (See Sessions, Frank L., assignor.)
Jeffrey Manufacturing Company, The. (See Steckel, Archibald W. F., assignor.)
Jeffrey Manufacturing Company, The. (See Willson, William W., assignor.)
Jeffreys, Robert D., near Windsor, N. Y. Steam-separator. No. 1,007,289; Oct. 31; Sp. p. 6027; Gaz. vol. 171; p. 1100.
Jeffries, J. L. (See Holton, James O., Jr., assignor.)
Jeffries, Lincoln, assignor to Lincoln Jeffries and Company, Limited, Birmingham, England. Spring air pistol and gun. No. 995,146; June 13; Sp. p. 2289; Gaz. vol. 167; p. 397.
Jeffris, Jerome, Kirksville, Ill. Churn. No. 989,783; Apr. 18; Sp. p. 3197; Gaz. vol. 165; p. 561.
Jegge, Emil G., Newark, N. J. Power-press. No. 986,174; Mar. 7; Sp. p. 873; Gaz. vol. 164; p. 141.
Jellinek-Mercedes, Emil. (See Kanschine, Serge, assignor.)
Jellison, Moore A., Terre Haute, Ind. Incased telescopic music-stand. No. 987,884; Mar. 28; Sp. p. 4511; Gaz. vol. 164; p. 815.
Jenckes, Ray G., Manáos, Brazil, assignor to General Electric Company. Sign. No. 988,104; Mar. 28; Sp. p. 5020; Gaz. vol. 164; p. 890.
Jendrusik, Aurelijusz, Strzomieszyce, Russia. Locomotive valve-gear. No. 990,656; Apr. 25; Sp. p. 5148; Gaz. vol. 165; p. 892.
Jenevein, August J., San Bruno, Cal. Flour-sifter. No. 1,003,184; Sept. 12; Sp. p. 2203; Gaz. vol. 170; p. 378.
Jenison, Edward S., Chicago, Ill. Sliding railway. No. 1,000,009; Aug. 8; Sp. p. 1639; Gaz. vol. 169; p. 308.
Jenkins, Alexander F., assignor to The Alexander Milburn Company, Baltimore, Md. Burner for contractors' torches. No. 1,009,315; Nov. 21; Sp. p. 3769; Gaz. vol. 172; p. 657.
Jenkins, Atwood L., Richmond, Ind., assignor, by mesne assignments, to Single Service Package Corporation of America. Press. No. 983,059; Jan. 31; Sp. p. 6344; Gaz. vol. 162; p. 1102.
Jenkins, Charles F., Washington, D. C. Knockdown box. No. 981,277; Jan. 10; Sp. p. 2532; Gaz. vol. 162; p. 412.
Jenkins, Charles F., Washington, D. C. Tube-winding device. No. 982,430; Jan. 24; Sp. p. 4977; Gaz. vol. 162; p. 861.
Jenkins, Charles F., Washington, D. C. Warning-signal. No. 983,236; Jan. 31; Sp. p. 6684; Gaz. vol. 162; p. 1161.
Jenkins, Charles F., Washington, D. C. Paper-tube machinery. No. 984,002; Feb. 14; Sp. p. 1644; Gaz. vol. 163; p. 284.
Jenkins, Charles F., Washington, D. C. Two-cycle gas-engine. No. 997,195; July 4; Sp. p. 1254; Gaz. vol. 168; p. 204.
Jenkins, Charles F., Washington, D. C. Starting device for gas-engines. No. 1,003,750; Sept. 19; Sp. p. 3415; Gaz. vol. 170; p. 609.
Jenkins, Charles F., Washington, D. C. Railway-tie. No. 1,003,751; Sept. 19; Sp. p. 3416; Gaz. vol. 170; p. 609.
Jenkins, Charles F., Washington, D. C. Gas-motor starter. No. 1,003,752; Sept. 19; Sp. p. 3418; Gaz. vol. 170; p. 609.
Jenkins, Charles F., Washington, D. C. Blast-furnace. No. 1,010,265; Nov. 28; Sp. p. 5727; Gaz. vol. 172; p. 1024.
Jenkins, Charles F., Washington, D. C. Acetylene generating and storing apparatus. No. 1,010,266; Nov. 28; Sp. p. 5729; Gaz. vol. 172; p. 1025.
Jenkins, Charles F., Washington, D. C. Motion-picture apparatus. No. 1,010,370; Nov. 28; Sp. p. 5959; Gaz. vol. 172; p. 1059.
Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Receptacle-labeling apparatus. No. 983,060; Jan. 31; Sp. p. 6345; Gaz. vol. 162; p. 1102.
Jenkins, Charles F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Machine for inserting closures in receptacles. No. 985,900; Mar. 7; Sp. p. 309; Gaz. vol. 164; p. 49.
Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Coating paper receptacles. No. 985,901; Mar. 7; Sp. p. 310; Gaz. vol. 164; p. 50.
Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Glue-applying apparatus for box-machines. No. 985,902; Mar. 7; Sp. p. 311; Gaz. vol. 164; p. 50.

Jenkins, Charles F., Washington, D. C., assignor to Single Service Package Corporation of America, New York, N. Y. Making receptacle-closures. No. 988,716; Apr. 4; Sp. p. 926; Gaz. vol. 165; p. 147.
Jenkins, Charles F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Making boxes or bottles. No. 991,509; May 9; Sp. p. 1452; Gaz. vol. 166; p. 273.
Jenkins, Charles F., Washington, D. C., assignor, by mesne assignments, to Single Service Package Corporation of America. Closure for paper vessels. No. 993,170; May 23; Sp. p. 5020; Gaz. vol. 166; p. 906.
Jenkins, Charles H., assignor of one-half to T. W. Moran, Louisville, Ky. Locomotive. No. 985,744; Feb. 28; Sp. p. 5416; Gaz. vol. 163; p. 950.
Jenkins, Earl, *et al.* (See Palmateer, Sylvanus, assignor.)
Jenkins, Edward C. and J., Birkenhead, England. Tool for withdrawing and inserting screwed ferrules. No. 1,009,248; Nov. 21; Sp. p. 3625; Gaz. vol. 172; p. 632.
Jenkins, George W., and E. Lowry, Nelsonville, Ohio. Mine-car stop. No. 1,004,652; Oct. 3; Sp. p. 220; Gaz. vol. 171; p. 38.
Jenkins, John L., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Automatic scale. No. 994,319; June 6; Sp. p. 438; Gaz. vol. 167; p. 76.
Jenkins, Joseph. (See Jenkins, Edward C. and J.)
Jenkins, Joseph C., Lititz, Pa. Clinical-thermometer case. No. 984,003; Feb. 14; Sp. p. 1645; Gaz. vol. 163; p. 284.
Jenkins, Joseph R. (See Harris and Jenkins.)
Jenkins, Merrill L., Harvey, assignor to The Buda Company, Chicago, Ill. Transmission mechanism. No. 984,565; Feb. 21; Sp. p. 2862; Gaz. vol. 163; p. 510.
Jenkins, R. E. Lee. (See Thomsen and Rienhardt, assignors.)
Jenkins, Samuel F., Washta, Iowa. Weed-cutter. No. 997,450; July 11; Sp. p. 1765; Gaz. vol. 168; p. 320.
Jenkins, Thomas R., Jr., assignor of one-half to W. S. Finnell, Baltimore, Md. Machine for removing water from floors. No. 1,006,221; Oct. 17; Sp. p. 3650; Gaz. vol. 171; p. 642.
Jenkins, Thomas W., *et al.* (See Meixell, William B., assignor.)
Jenkins, Thomas W., Philadelphia, Pa. Feed-chute. No. 982,725; Jan. 24; Sp. p. 5582; Gaz. vol. 162; p. 960.
Jenkins, Thomas W., Philadelphia, Pa. Safety device for elevators No. 989,907; Apr. 18; Sp. p. 3456; Gaz. vol. 165; p. 602.
Jenkins, Thomas W., Philadelphia, Pa. Safety device for elevators. No. 1,009,972; Nov. 28; Sp. p. 5136; Gaz. vol. 172; p. 925.
Jenkins, William, Philadelphia, Pa. Track-sander. No. 1,003,608; Sept. 19; Sp. p. 3107; Gaz. vol. 170; p. 560.
Jenkins, William H., Oroville, Cal. Switch signaling device. No. 1,004,272; Sept. 26; Sp. p. 4611; Gaz. vol. 170; p. 815.
Jenks, Harriet B., administratrix. (See Jenks and Knutson.)
Jenks, John, San Diego, Cal. Combination-tool. No. 981,278; Jan. 10; Sp. p. 2533; Gaz. vol. 162; p. 413.
Jenks, John, San Diego, Cal. Hanger for screens. No. 1,012,085; Dec. 19; Sp. p. 3807; Gaz. vol. 173; p. 660.
Jenks, Thomas M., deceased, (H. B. Jenks, administratrix,) and A. W. Knutson, Galesburg, Ill.; said Knutson assignor to said H. B. Jenks. Electric lantern. No. 998,849; July 25; Sp. p. 4922; Gaz. vol. 168; p. 885.
Jenne Acetylene Gas Machine Company, The. (See Buschmann, Harry C., assignor.)
Jenner, George C., and H. K. Shelters, Jamestown, N. Y Non-refillable bottle. No. 996,928; July 4; Sp. p. 680; Gaz. vol. 168; p. 112.
Jenness, Charles L., Chicago, Ill. Adjustable crank-hanger. No. 987,370; Mar. 21; Sp. p. 3402; Gaz. vol. 164; p. 610.
Jennet, Newel A., Coalinga, Cal. Drill-press. No. 1,000,604; Aug. 15; Sp. p. 2998; Gaz. vol. 169; p. 547.
Jennings, Arthur L., Deep River, Conn. Auger-bit. No. 1,004,572; Oct. 3; Sp. p. 52; Gaz. vol. 171; p. 10.
Jennings, Chester S. (See Fordyce and Jennings.)
Jennings, Chester S., assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Carrier for pneumatic-despatch systems. No. 984,816; Feb. 21; Sp. p. 3396; Gaz. vol. 163; p. 598.
Jennings, Chester S., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 1,009,316; Nov. 21; Sp. p. 3772; Gaz. vol. 172; p. 657.
Jennings, Douglas, Bennettsville, S. C. Cigar-box support. No. 996,649; July 4; Sp. p. 113; Gaz. vol. 168; p. 20.
Jennings, Emerson P., Jr., New York, N. Y., assignor to The Cartwright Automatic Press Company, Springfield, Ohio. Automatic stop mechanism for power-driven machinery. No. 1,001,409; Aug. 22; Sp. p. 4759; Gaz. vol. 169; p. 858.
Jennings, James J., Chicago, Ill. Means for illuminating interiors of buildings. No. 982,823; Jan. 31; Sp. p. 5812; Gaz. vol. 162; p. 1023.
Jennings, John, Greenwood, Ind. Vehicle. No. 990,440; Apr. 25; Sp. p. 4664; Gaz. vol. 165; p. 819.
Jennings, John F., assignor to The Monarch Brass Company, Cleveland, Ohio. Operating mechanism for valves. No. 996,587; June 27; Sp. p. 5458; Gaz. vol. 167; p. 954.
Jennings, Joseph W., Quinton, Okla. Well-drilling machine. No. 990,743; Apr. 25; Sp. p. 5340; Gaz. vol. 165; p. 921.
Jennings, Oren, Boone, Iowa. Runner for draft-tongues. No. 996,251; June 27; Sp. p. 4722; Gaz. vol. 167; p. 840.
Jennings, Oscar S., assignor of one-half to G. W. Miller, Ithaca, N. Y. Adjustable hoe. No. 984,817; Feb. 21; Sp. p. 3398; Gaz. vol. 163; p. 599.
Jennings, Robert G., Elmira, N. Y. Apparatus for cleansing yarns. No. 991,510; May 9; Sp. p. 1454; Gaz. vol. 166; p. 273.
Jennings, Thomas E., Scott Haven, Pa. Automatic air-brake coupling. No. 982,004; Jan. 17; Sp. p. 4105; Gaz. vol. 162; p. 684.
Jennings, Victor H., assignor to The Mills Woven Cartridge Belt Co., Worcester, Mass. Attachment for looms. No. 1,006,559; Oct. 24; Sp. p. 4439; Gaz. vol. 171; p. 792.
Jennings, W. W., *et al.* (See Wilshusen, August E., assignor.)
Jennison, Harry G., Toledo, Ohio. Composite pavement. No. 995,147; June 13; Sp. p. 2292; Gaz. vol. 167; p. 397.
Jennison, Walter R., Atlanta, Ga. Refrigerator. No. 1,007,702; Nov. 7; Sp. p. 100; Gaz. vol. 172; p. 17.
Jensen, Aage, Eureka, Cal. Sanitary pump. No. 1,007,448; Oct. 31; Sp. p. 6366; Gaz. vol. 171; p. 1156.
Jensen, Andrew B., Racine, Wis. Tongs. No. 999,455; Aug. 1; Sp. p. 516; Gaz. vol. 169; p. 91.
Jensen, Bernhardt J., Frederiksberg, near Copenhagen, Denmark. Paper-folding machine. No. 980,871; Jan. 3; Sp. p. 1486; Gaz. vol. 162; p. 238.
Jensen, Broder L., Lake City, Colo. Poison for prairie-dogs. No. 1,005,224; Oct. 10; Sp. p. 1405; Gaz. vol. 171; p. 257.
Jensen, Friedrich, Kiel-Gaarden, Germany. Transmission of heat by means of superheated steam. No. 984,431; Feb. 14; Sp. p. 2533; Gaz. vol. 163; p. 429.
Jensen, Hans F. (See Jakobsen and Jensen.)
Jensen, Hans H., Milwaukee, Wis. Rod-cutter. No. 1,006,222; Oct. 17; Sp. p. 3651; Gaz. vol. 171; p. 642.
Jensen, Harry H., Oakland, Cal. Fireproof book. No. 1,009,071; Nov. 21; Sp. p. 3222; Gaz. vol. 172; p. 571.
Jensen, Jens P. (See Jensen and Petersen.)
Jensen, Johan P. and J. P., and H. C. Petersen, Foley Brook, Victoria, Canada. Automatic wagon-brake. No. 1,002,155; Aug. 29; Sp. p. 6282; Gaz. vol. 169; p. 1136.
Jensen, John M., and E. C. Le Blanc, Bowie, La. Grinder attachment. No. 987,466; Mar. 21; Sp. p. 3612; Gaz. vol. 164; p. 643.
Jensen, Joseph L., Richfield, and H. Denison, Manti, Utah. Steam-boiler. No. 988,717; Apr. 4; Sp. p. 927; Gaz. vol. 165; p. 147.
Jensen, Lewis M., La Grande, Oreg. Automobile starting mechanism. No. 984,432; Feb. 14; Sp. p. 2534; Gaz. vol. 163; p. 429.
Jensen, Mathias, Copenhagen, Denmark. Bottle-filling machine. No. 989,546; Apr. 11; Sp. p. 2670; Gaz. vol. 165; p. 449.
Jensen, Thomas C., and J. C. Jorgensen, Ephraim, Utah. Combination-lock. No. 997,825; July 11; Sp. p. 2624; Gaz. vol. 168; p. 451.
Jensenius, Herman A., Philadelphia, Pa., assignor to Camden Iron Works, Camden, N. J. Valve mechanism for steam hydraulic presses. No. 1,005,225; Oct. 10; Sp. p. 1406; Gaz. vol. 171; p. 257.
Jenyns, Sarah A., Brisbane, Queensland, Australia. Corset. No. 991,315; May 2; Sp. p. 1054; Gaz. vol. 166; p. 176.
Jeppson, George N., assignor to Norton Company, Worcester, Mass. Treating refractory electric-furnace products. No. 992,875; May 23; Sp. p. 4384; Gaz. vol. 166; p. 805.
Jepson, John W., New York, N. Y., assignor, by mesne assignments, to Gould Coupler Company. System of electrical distribution. No. 981,197; Jan. 10; Sp. p. 2319; Gaz. vol. 162; p. 382.
Jepson, John W., New York, N. Y., assignor, by mesne assignments, to Gould Coupler Company. System of electrical distribution. No. 981,198; Jan. 10; Sp. p. 2324; Gaz. vol. 162; p. 383.
Jepson, John W., Depew, and W. F. Bouché, Buffalo, N. Y., assignors to Gould-Coupler Company. Switch. No. 993,378; May 30; Sp. p. 5466; Gaz. vol. 166; p. 1006.
Jeremiah, Solomon, Duquoin, Ill. Electric-wire supporter. No. 997,916; July 11; Sp. p. 2821; Gaz. vol. 168; p. 482.
Jergle, Josef, K. Machal, and J. Heller, assignors to F. Hamburger and A. Urban, Vienna, Austria-Hungary. Igniter for gas-burners. No. 994,164; June 6; Sp. p. 125; Gaz. vol. 167; p. 22.
Jernstedt, John A., Jersey City, N. J. Fishing-reel. No. 1,001,857; Aug. 29; Sp. p. 5680; Gaz. vol. 169; p. 1040.
Jerram, Arthur E. (See Bates, Jerram, and Gouldbourn.)
Jerram, Arthur E. (See Pearson and Jerram.)
Jerram, Arthur E., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 1,011,349; Dec. 12; Sp. p. 2155; Gaz. vol. 173; p. 367.
Jessen, Charles C. (See Rennie and Jessen.)

Alphabetical list of patentees—Continued.

Jessen, James, assignor, by mesne assignments, to D. & D. Button-Hole Machine Company, Minneapolis, Minn. Buttonhole-machine. No. 993,070; May 23; Sp. p. 4809; Gaz. vol. 166; p. 874.
Jessop, John H., Peckville, Pa. Collar-fastener. No. 1,000,010; Aug. 8; Sp. p. 1643; Gaz. vol. 169; p. 308.
Jester, Marvin H., Denver, Colo. Device for supporting and securing plaster-boards used in partition construction. No. 1,001,146; Aug. 22; Sp. p. 4205; Gaz. vol. 169; p. 769.
Jeter, Allen H., New York, N. Y. Skylight. No. 1,001,646; Aug. 29; Sp. p. 5210; Gaz. vol. 169; p. 966.
Jetter, Julius, Camden, N. J. Stylus or needle for sound recording and reproducing machines. No. 983,061; Jan. 31; Sp. p. 6346; Gaz. vol. 162; p. 1103.
Jewell, Charles E., Seneca Falls, N. Y. Antislipping and cushioning device. No. 1,007,290; Oct. 31; Sp. p. 6028; Gaz. vol. 171; p. 1100.
Jewell, Frederick C. and H. S., Chicago, Ill. Trammel-head. No. 998,616; July 25; Sp. p. 4385; Gaz. vol. 168; p. 803.
Jewell, Henry S. (See Jewell, Frederick C. and H. S.)
Jewell, Ira H., Chicago, Ill. Still. No. 999,793; Aug. 8; Sp. p. 1191; Gaz. vol. 169; p. 234.
Jewell, Major R. (See Powers and Jewell.) (Reissue.)
Jewell, Omar H., assignor to Polar Ice Machine Company, Chicago, Ill. Apparatus for making artificial ice. No. 1,004,653; Oct. 3; Sp. p. 221; Gaz. vol. 171; p. 39.
Jez, Joseph M., Taylor, Tex. Attachment for cultivators. No. 1,010,267; Nov. 28; Sp. p. 5730; Gaz. vol. 172; p. 1025.
Jira, Frederick, San Francisco, Cal. Automatic guard for elevators. No. 1,008,917; Nov. 14; Sp. p. 2868; Gaz. vol. 172; p. 482.
Job Day and Sons Limited. (See Townsend, George, assignor.)
Jobe, George M., Providence, R. I. Non-resealable bottle. No. 992,507; May 16; Sp. p. 3605; Gaz. vol. 166; p. 647.
Jobe, Seabrome, Hawkins, Tex. Railway. No. 997,196; July 4; Sp. p. 1256; Gaz. vol. 168; p. 204.
Jobes, Abram L., Leominster, Mass. Cuff-forming press. No. 985,903; Mar. 7; Sp. p. 313; Gaz. vol. 164; p. 50.
Jobin, George E. J., Chicago, Ill. Emery-wheel grinding-machine. No. 991,068; May 2; Sp. p. 498; Gaz. vol. 166; p. 86.
Jobson, Frank L., Richmond, Va. Attachment to water-gages. No. 1,007,703; Nov. 7; Sp. p. 113; Gaz. vol. 172; p. 18.
Jobson, Raymond L., Kinston, N. C. Hot-bearing alarm. No. 1,007,574; Oct. 31; Sp. p. 6647; Gaz. vol. 171; p. 1198.
Joeckel, Henry F., Camp Point, Ill. Bridging telephone system. No. 982,209; Jan. 17; Sp. p. 4487; Gaz. vol. 162; p. 753.
Joeckel, Henry F., Camp Point, Ill. Telephone system. No. 1,007,575; Oct. 31; Sp. p. 6647; Gaz. vol. 171; p. 1198.
Joerissen, Carl A., Washington, D. C. Computing-machine. No. 1,007,576; Oct. 31; Sp. p. 6649; Gaz. vol. 171; p. 1199.
Joerissen, Carl A., Washington, D. C. Computing-machine. No. 1,011,125; Dec. 5; Sp. p. 1593; Gaz. vol. 173; p. 252.
Johannes, August. (See Stapel and Johannes.)
Johannes, Ira H., Washington, D. C. Safety attachment for pins, clasps, &c. No. 988,346; Apr. 4; Sp. p. 114; Gaz. vol. 165; p. 21.
Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Transformer. No. 1,010,500; Dec. 5; Sp. p. 228; Gaz. vol. 173; p. 36.
Johansen, Gustav, River Park, Ind. Tool-holder. No. 995,679; June 20; Sp. p. 3457; Gaz. vol. 167; p. 609.
Johansen, Ole, Christiania, Norway. Petroleum-vapor-lamp burner. No. 983,722; Feb. 7; Sp. p. 1000; Gaz. vol. 163; p. 159.
Johanson, Karl G., Concord Junction, Mass. Folding table. No. 987,236; Mar. 21; Sp. p. 3122; Gaz. vol. 164; p. 565.
Johansson, Frans J., and E. A. O. Göthe, Stockholm, Sweden. Milking-machine. No. 998,294; July 18; Sp. p. 3703; Gaz. vol. 168; p. 660.
Johansson, Frans J., and E. A. O. Göthe, Stockholm, Sweden. Milking-machine. No. 1,010,148; Nov. 28; Sp. p. 5504; Gaz. vol. 172; p. 986.
Johansson, Gustaf W. (See Risberg and Johansson.)
Johansson, Karl E., Chicago, Ill. Combined match-safe, wind-shield, cigar-holder, and card-case. No. 989,978; Apr. 18; Sp. p. 3628; Gaz. vol. 165; p. 628.
John A. Roebling's Sons Company. (See Carnagy, Alfred D., assignor.)
John B. Timberlake and Sons. (See Moore and Timberlake, assignors.)
John C. Moore Corporation. (See Moore, Gaius C., assignor.)
John Dean Manufacturing Company. (See Dean, John, assignor.)
John Douglas Company. (See McNeil, Daniel W., assignor.)
John F. Cummings Manufacturing Company, The. (See Cummings, John F., assignor.)
John, Gilmour, Shamokin, Pa. Force-draft apparatus. No. 985,415; Feb. 28; Sp. p. 4677; Gaz. vol. 163; p. 835.
John, Griffith, Yonkers, N. Y., assignor to Otis Elevator Company, East Orange, N. J. Retarding device for plunger-elevators. No. 986,392; Mar. 7; Sp. p. 1341; Gaz. vol. 164; p. 216.
John Hofman Co. (See Hofman, Bucklin, and Burr, assignors.)
John, Hugo, Ilversgehofen, near Erfurt, Germany. Shearing-machine. No. 985,599; Feb. 28; Sp. p. 5091; Gaz. vol. 163; p. 901.
John, Hugo, Ilversgehofen, near Erfurt, Germany. Girder-cutting device. No. 995,252; June 13; Sp. p. 2491; Gaz. vol. 167; p. 431.
John, Joseph R., Mount Clemens, Mich. Barber's head-rest. No. 1,009,417; Nov. 21; Sp. p. 4024; Gaz. vol. 172; p. 695.
John Steptoe Shaper Company, The. (See Atkinson, George K., assignor.)
John Thomson Press Company. (See Thomson, John, assignor.)
Johns, Isaac T., St. Joseph, Mo. Grease-cup. No. 1,012,361; Dec. 19; Sp. p. 4401; Gaz. vol. 173; p. 753.
Johns, John B., Fairmont, W. Va. Horse-feeding machine. No. 995,253; June 13; Sp. p. 2493; Gaz. vol. 167; p. 432.
Johns, Robert, Fairmont, W. Va. Neck-grooving attachment for bottle-molding machines. No. 1,006,383; Oct. 17; Sp. p. 4004; Gaz. vol. 171; p. 698.
Johnsen, Andrew, Warren, Pa. Music-leaf turner. No. 1,005,710; Oct. 10; Sp. p. 2503; Gaz. vol. 171; p. 430.
Johnsen, John E., Chicago, Ill. Drinking-fountain. No. 998,581; July 18; Sp. p. 4299; Gaz. vol. 168; p. 759.
Johnson, Adna F. (See Peet, Thomas W., assignor.)
Johnson, Adolf E., Providence, R. I. Automatic fire-extinguisher. No. 993,071; May 23; Sp. p. 4816; Gaz. vol. 166; p. 874.
Johnson, Albert L., assignor to Corrugated Bar Company, St. Louis, Mo. Corrugated bar. No. 982,682; Jan. 24; Sp. p. 5488; Gaz. vol. 162; p. 947.
Johnson, Albin, Chicago, Ill. Cleaning and polishing device. No. 982,824; Jan. 31; Sp. p. 5814; Gaz. vol. 162; p. 1023.
Johnson, Alexander, Cromwell, Conn. Plumb-line. No. 991,446; May 2; Sp. p. 1317; Gaz. vol. 166; p. 220.
Johnson, Alexander F. J., (now by judicial change of name Alexander F. Jenkins,) assignor to Alexander Milburn Company, Baltimore, Md. Acetylene generator and torch. No. 1,011,436; Dec. 12; Sp. p. 2320; Gaz. vol. 173; p. 396.
Johnson, Alfred E., Racine, Wis. Ladle. No. 990,138; Apr. 18; Sp. p. 3937; Gaz. vol. 165; p. 679.
Johnson, Andrew, Missoula, Mont. Switch-shifting device. No. 1,009,149; Nov. 21; Sp. p. 3373; Gaz. vol. 172; p. 596.
Johnson, Andrew L., and H. B. Sperry, Chicago, Ill., assignors to International Harvester Company. Tandem draft connection for harvesters. No. 997,917; July 11; Sp. p. 2823; Gaz. vol. 168; p. 483.
Johnson, Andrew N., Bagley, Minn. Tree-bundling machine. No. 988,347; Apr. 4; Sp. p. 114; Gaz. vol. 165; p. 21.
Johnson, Arthur H., Epsom, England. Signal for railway-switches. No. 1,011,801; Dec. 12; Sp. p. 3152; Gaz. vol. 173; p. 527.
Johnson, Audley W., Sioux City, Iowa. Pilot signal-lantern. No. 993,171; May 23; Sp. p. 5021; Gaz. vol. 166; p. 907.
Johnson, August B., Red Wing, Minn. Speed-indicator. No. 980,531; Jan. 3; Sp. p. 779; Gaz. vol. 162; p. 124.
Johnson, August I., Concord, N. H. Oil-can. No. 1,002,995; Sept. 12; Sp. p. 1809; Gaz. vol. 170; p. 313.
Johnson, Axel, Oakland, Cal., assignor to American Can Company. Can-end-feed mechanism. No. 981,861; Jan. 17; Sp. p. 3753; Gaz. vol. 162; p. 634.
Johnson, Axel P., Minneapolis, Minn. Combination-tool. No. 991,316; May 2; Sp. p. 1055; Gaz. vol. 166; p. 176.
Johnson, Axel W., Newark, N. J. Window. No. 1,007,208; Oct. 31; Sp. p. 5868; Gaz. vol. 171; p. 1071.
Johnson, Benjamin F., Macclenny, Fla. Preserving corn. No. 1,004,033; Sept. 26; Sp. p. 4068; Gaz. vol. 170; p. 733.
Johnson, Benjamin F., Cleveland, Ohio. Feed-bag for horses. No. 1,007,110; Oct. 31; Sp. p. 5633; Gaz. vol. 171; p. 1035.
Johnson, Benjamin L., *et al.* (See Clapp, George L., assignor.)
Johnson, Bert, Springwater, N. Y. Elevated support for automobiles. No. 1,005,551; Oct. 10; Sp. p. 2138; Gaz. vol. 171; p. 375.
Johnson, Carl H., Spokane, Wash. Miter-gage. No. 1,006,948; Oct. 24; Sp. p. 5268; Gaz. vol. 171; p. 927.
Johnson, Carl N., Amherst, Ohio. Tooling device for stone and the like. No. 1,000,813; Aug. 15; Sp. p. 3445; Gaz. vol. 169; p. 620.
Johnson, Carl V., Goldfield, Nev. Airship. No. 1,005,646; Oct. 10; Sp. p. 2376; Gaz. vol. 171; p. 408.
Johnson, Charles, Minneapolis, Minn. Lumber-guide for rip-saws. No. 983,723; Feb. 7; Sp. p. 1001; Gaz. vol. 163; p. 159.

Alphabetical list of patentees—Continued.

Johnson, Charles, Auburn, and C. Frank, Seneca Falls, N. Y. Variable-speed power-transmitting mechanism. No. 1,011,623; Dec. 12; Sp. p. 2798; Gaz. vol. 173; p. 466.
Johnson, Charles, Auburn, and C. Frank, Seneca Falls, N. Y. Manure-spreader. No. 1,011,624; Dec. 12; Sp. p. 2799; Gaz. vol. 173; p. 466.
Johnson, Charles A., Creston, Iowa. Attachment for boiler-gages. No. 984,676; Feb. 21; Sp. p. 3091; Gaz. vol. 163; p. 547.
Johnson, Charles O., Boston, Mass. Transmission-gearing. No. 989,979; Apr. 18; Sp. p. 3631; Gaz. vol. 165; p. 628.
Johnson, Charles O., Boston, Mass. Antifriction-bearing. No. 1,005,041; Oct. 3; Sp. p. 1032; Gaz. vol. 171; p. 172.
Johnson, Charley L., San Diego, Cal. Cable or track controlled airship. No. 989,156; Apr. 11; Sp. p. 1822; Gaz. vol. 165; p. 315.
Johnson, Christ M. (See Olson and Johnson.)
Johnson, Claude B., Fulton, Mo. Toy. No. 1,008,547; Nov. 14; Sp. p. 2076; Gaz. vol. 172; p. 355.
Johnson, Clyde P., *et al.* (See Hanna, William T., assignor.)
Johnson, David B., Blanchester, Ohio, assignor to Sprout, Waldron & Company, Muncy, Pa. Bolting-cloth cleaner. No. 1,002,584; Sept. 5; Sp. p. 900; Gaz. vol. 170; p. 133.
Johnson, Edgar G., Buckhannon, W. Va. Cuff. No. 981,279; Jan. 10; Sp. p. 2535; Gaz. vol. 162; p. 413.
Johnson, Edgar M., assignor of one-half to R. D. Blackburn, Hancock, Mich. Signaling system for mines. No. 1,004,879; Oct. 3; Sp. p. 733; Gaz. vol. 171; p. 118.
Johnson, Edward. (See Christman and Johnson.) (Reissue.)
Johnson, Edward, Cincinnati, Ohio. Shoulder-brace. No. 996,343; June 27; Sp. p. 4951; Gaz. vol. 167; p. 871.
Johnson, Edward, assignor to Forsyth Brothers Company, Chicago, Ill. Metallic window-sash. No. 1,012,138; Dec. 19; Sp. p. 3925; Gaz. vol. 173; p. 679.
Johnson, Edward A. (See Allen, Lewis C., assignor.)
Johnson, Edward D., Los Angeles, Cal. Tympan-sheet. No. 982,726; Jan. 24; Sp. p. 5585; Gaz. vol. 162; p. 961.
Johnson, Edward H., assignor of one-third to C. Specht and one-third to J. C. Specht, Los Angeles, Cal. Fireproof window-sash. No. 996,986; July 4; Sp. p. 827; Gaz. vol. 168; p. 133.
Johnson, Edward W., Chicago, Ill. Multiple-needle holder for electrolysis. No. 991,208; May 2; Sp. p. 814; Gaz. vol. 166; p. 138.
Johnson, Edwin, Schenectady, N. Y., assignor to General Electric Company. Circuit-breaker. No. 991,511; May 9; Sp. p. 1457; Gaz. vol. 166; p. 273.
Johnson, Edwin E., San Martin, Cal., assignor of one-half to M. J. Pope, St. Louis, Mo., and one-half to F. D. Thorne, New York, N. Y. Detergent. No. 984,566; Feb. 21; Sp. p. 2864; Gaz. vol. 163; p. 510.
Johnson, Elmer, Axtell, Nebr. Back-rest for machine-seats. No. 1,000,814; Aug. 15; Sp. p. 3446; Gaz. vol. 169; p. 620.
Johnson, Elmer H., New York, N. Y. Shock-absorbing vehicle-spring. No. 993,379; May 30; Sp. p. 5470; Gaz. vol. 166; p. 1007.
Johnson, Emery, Newberg, Oreg., assignor, by mesne assignments, to The Any Lite Incandescent Lamp Regulator Co. Electric-lamp regulator. No. 993,301; May 23; Sp. p. 5277; Gaz. vol. 166; p. 947.
Johnson, Erick A., Kenosha, Wis. Stocking-form. No. 989,015; Apr. 11; Sp. p. 1518; Gaz. vol. 165; p. 267.
Johnson, Ernest V., Chicago, Ill. Means for protecting concrete or other structures from fire. No. 982,210; Jan. 17; Sp. p. 4493; Gaz. vol. 162; p. 754.
Johnson, Ernest V., Chicago, Ill. Fireproof-building floor construction. No. 989,016; Apr. 11; Sp. p. 1519; Gaz. vol. 165; p. 267.
Johnson, Frank, Audubon, Minn. Loader and carrier. No. 999,227; Aug. 1; Sp. p. 69; Gaz. vol. 169; p. 14.
Johnson, Frank G., Kankakee, Ill. Fly-paper stand. No. 1,007,111; Oct. 31; Sp. p. 5635; Gaz. vol. 171; p. 1035.
Johnson, Frederic I., Fitchburg, Mass. Firearm. No. 996,252; June 27; Sp. p. 4724; Gaz. vol. 167; p. 840.
Johnson, Frederic I., Fitchburg, Mass. Firearm. No. 1,004,172; Sept. 26; Sp. p. 4420; Gaz. vol. 170; p. 782.
Johnson, Frederick A., Colorado Springs, Colo. Dynamo-electric machine. No. 996,253; June 27; Sp. p. 4726; Gaz. vol. 167; p. 841.
Johnson, Frederick M. G., Montreal, Quebec, Canada. Continuous electric switch. No. 1,007,291; Oct. 31; Sp. p. 6029; Gaz. vol. 171; p. 1100.
Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Friction-buffer for railway-cars. No. 992,428; May 16; Sp. p. 3447; Gaz. vol. 166; p. 620.
Johnson, George A., assignor to W. H. Miner, Chicago, Ill. Steel platform for railway-cars. No. 1,011,965; Dec. 19; Sp. p. 3520; Gaz. vol. 173; p. 616.
Johnson, George F., assignor to Illinois Watch Company, Springfield, Ill. Pendent-setting watch. No. 1,007,292; Oct. 31; Sp. p. 6032; Gaz. vol. 171; p. 1100.
Johnson, Gunnar, New York, N. Y. Picture-hanger. No. 992,203; May 16; Sp. p. 2909; Gaz. vol. 166; p. 541.
Johnson, Gustaf, Starbuck, Minn. Life-boat. No. 980,790; Jan. 3; Sp. p. 1307; Gaz. vol. 162; p. 210.
Johnson, Gustaf T., *et al.* (See Wahlstrom, Charles S., assignor.)
Johnson, Gustavus C., Dillon, S. C. Safety hat-pin. No. 997,451; July 11; Sp. p. 1767; Gaz. vol. 168; p. 321.
Johnson, Hans J. (See Pfremmer, Joseph S., assignor.)
Johnson, Harold C., Chicago, Ill. Coffee-percolator. No. 988,470; Apr. 4; Sp. p. 386; Gaz. vol. 165; p. 62.
Johnson, Harry L., assignor of six-tenths to C. Hamilton, Topeka, Kans. Telephone selective-signaling ringer. No. 1,001,959; Aug. 29; Sp. p. 5925; Gaz. vol. 169; p. 1073.
Johnson, Harry T., New York, N. Y. Telegraph-sounder. No. 983,905; Feb. 14; Sp. p. 1424; Gaz. vol. 163; p. 252.
Johnson, Herbert A., assignor to North & Judd Manufacturing Company, New Britain, Conn. Buckle. No. 983,448; Feb. 7; Sp. p. 411; Gaz. vol. 163; p. 66.
Johnson, Herbert A., and J. W. Force, assignors to The North and Judd Manfacturing Company, New Britain, Conn. Rolling-barrel. No. 994,258; June 6; Sp. p. 325; Gaz. vol. 167; p. 56.
Johnson, Hugo C., Hot Lake, Oreg. Shoe-fastener. No. 986,988; Mar. 14; Sp. p. 2591; Gaz. vol. 164; p. 448.
Johnson Implement Company, The. (See Johnson, Vincent, assignor.)
Johnson, Isaac O., Kirkland, Ga. Securing device for wheels. No. 993,172; May 23; Sp. p. 5022; Gaz. vol. 166; p. 907.
Johnson, Jacob A., Ottawa, Kans. Fence-post. No. 1,001,274; Aug. 22; Sp. p. 4459; Gaz. vol. 169; p. 810.
Johnson, Jacob L., Hereford, Tex. Molding-machine. No. 1,001,528; Aug. 22; Sp. p. 4957; Gaz. vol. 169; p. 896.
Johnson, Jacob M., Madison, Wis. Pipe. No. 1,002,405; Sept. 5; Sp. p. 519; Gaz. vol. 170; p. 73.
Johnson, James B., Albia, Iowa. Sash-lock. No. 992,777; May 23; Sp. p. 4160; Gaz. vol. 166; p. 769.
Johnson, James G., Chicago, Ill. Collapsible barrel. No. 985,600; Feb. 28; Sp. p. 5095; Gaz. vol. 163; p. 901.
Johnson, James G., Chicago, Ill. Kitchen-machine. No. 1,007,112; Oct. 31; Sp. p. 5636; Gaz. vol. 171; p. 1035.
Johnson, James S. (See Barrickman, Harry L., assignor.)
Johnson, James T., Tenino, Wash. Sheave-block. No. 984,141; Feb. 14; Sp. p. 1920; Gaz. vol. 163; p. 330.
Johnson, Jesse W. (See Rupp and Johnson.)
Johnson, Jim M., *et al.* (See Cameron, Clyde M., assignor.)
Johnson, John, Fox Lake, N. D. Door-stop. No. 988,105; Mar. 28; Sp. p. 5022; Gaz. vol. 164; p. 891.
Johnson, John A. (See Vogt and Johnson.)
Johnson, John A., Sauk Center, Minn. Stop for gramophones. No. 982,138; Jan. 17; Sp. p. 4360; Gaz. vol. 162; p. 729.
Johnson, John A., Greenfield, Ind. Device for burial purposes. No. 1,004,273; Sept. 26; Sp. p. 4612; Gaz. vol. 170; p. 815.
Johnson, John A., Jr., Birmingham, Ala. Trap. No. 1,008,967; Nov. 14; Sp. p. 2987; Gaz. vol. 172; p. 498.
Johnson, John A., and C. M. Hedman, Chicago, Ill. Inlay-casting machine. No. 999,794; Aug. 8; Sp. p. 1193; Gaz. vol. 169; p. 234.
Johnson, John F., Rowley, Iowa. Planting device. No. 1,011,205; Dec. 12; Sp. p. 1807; Gaz. vol. 173; p. 315.
Johnson, John H., Chicago, Ill. Lavatory-fixture. No. 1,000,735; Aug. 15; Sp. p. 3280; Gaz. vol. 169; p. 593.
Johnson, John L., Milwaukee, Wis., assignor to Allis-Chalmers Company. Induction-motor. No. 1,002,850; Sept. 12; Sp. p. 1484; Gaz. vol. 170; p. 263.
Johnson, John L., assignor of one-half to G. J. Reeling, Chicago, Ill. Automobile. No. 1,002,915; Sept. 12; Sp. p. 1657; Gaz. vol. 170; p. 286.
Johnson, John L., assignor of one-half to G. J. Reeling, Chicago, Ill. Engine. No. 1,009,669; Nov. 21; Sp. p. 4509; Gaz. vol. 172; p. 777.
Johnson, John M., Belleville, Kans. Burglar and fire alarm system. No. 993,688; May 30; Sp. p. 6157; Gaz. vol. 166; p. 1114.
Johnson, John O., Burtrum, Minn. Wagon-box and hay-rack remover. No. 983,285; Feb. 7; Sp. p. 60; Gaz. vol. 163; p. 12.
Johnson, John O., Cushing, Minn. Safety centrifugal valve. No. 998,906; July 25; Sp. p. 5056; Gaz. vol. 168; p. 907.
Johnson, John P. (See McMannamy and Johnson.)
Johnson, John S., Waukon, Iowa. Quack-grass-destroying machine. No. 1,002,276; Sept. 5; Sp. p. 199; Gaz. vol. 170; p. 26.
Johnson, John W., Jacksonville, Fla. Wood-extracting device. No. 997,557; July 11; Sp. p. 1985; Gaz. vol. 168; p. 355.
Johnson, John W., Upper Sandusky, Ohio. Ironing-machine. No. 998,521; July 18; Sp. p. 4172; Gaz. vol. 168; p. 738.
Johnson, John W., Trenton, Mo. Boiler-flue. No. 1,012,258; Dec. 19; Sp. p. 4186; Gaz. vol. 173; p. 718.
Johnson, John W., assignor of one-fourth to W. Robinson and one-fourth to W. Ader, Pittsburg, Pa. Railway-signal. No. 987,371; Mar. 21; Sp. p. 3404; Gaz. vol. 164; p. 611.
Johnson & Johnson. (See Stratton, George M., assignor.)
Johnson, Jonathan, Lowell, Mass. Check-valve. No. 1,004,654; Oct. 3; Sp. p. 223; Gaz. vol. 171; p. 39.
Johnson, Joseph, Quartzsite, Ariz. Button-hook. No. 986,989; Mar. 14; Sp. p. 2591; Gaz. vol. 164; p. 448.

Johnson, Joseph E., Jr., Ashland, Wis. Air blowing or compressing apparatus. No. 992,204; May 16; Sp. p. 2910; Gaz. vol. 166; p. 541.
Johnson, Joseph M., Lewiston, Me. Composition for stopping leaks. No. 981,429; Jan. 10; Sp. p. 2882; Gaz. vol. 162; p. 465.
Johnson, Joseph M., Millersburg, Pa. Rail-joint. No. 993,830; May 30; Sp. p. 6461; Gaz. vol. 166; p. 1163.
Johnson, Julius Y., and F. C. Bartz, Scranton, Pa. Combined mirror and cabinet. No. 1,006,481; Oct. 24; Sp. p. 4243; Gaz. vol. 171; p. 762.
Johnson, Justus, South Bethlehem, Pa. Upsetting-press. No. 986,295; Mar. 7; Sp. p. 1115; Gaz. vol. 164; p. 180.
Johnson, Lawrence E. (See Erickson, Edward, assignor.)
Johnson, Lawrence E., Chicago, Ill., assignor of one-half to Henry E. Bragg & Company, St. Joseph, Mo. Automatic shoe-nailing machine. No. 994,408; June 6; Sp. p. 641; Gaz. vol. 167; p. 109.
Johnson, Lawrence H. (See Bricker, Edward J., assignor.)
Johnson, Leonard, assignor of one-half to C. J. Nolstad, Blue River, Wis. Pump-rod lifter. No. 984,764; Feb. 21; Sp. p. 3297; Gaz. vol. 163; p. 581.
Johnson, Levi, Reading, Pa. Burial apparatus. No. 1,009,150; Nov. 21; Sp. p. 3371; Gaz. vol. 172; p. 596.
Johnson, Lew, Ames, Iowa. Railway block-signal system. No. 990,486; Apr. 25; Sp. p. 4758; Gaz. vol. 165; p. 835.
Johnson, Lewis J., Springbay, Ill. Grain renovator and drier. No. 985,416; Feb. 28; Sp. p. 4678; Gaz. vol. 163; p. 835.
Johnson, Little B., Fresno, Cal. Liquid-cooler. No. 1,001,960; Aug. 29; Sp. p. 5928; Gaz. vol. 169; p. 1074.
Johnson, Louis K. (See Low and Johnson.)
Johnson, Mahalia E., Reno, Nev. Steam-cooker. No. 1,003,112; Sept. 12; Sp. p. 2052; Gaz. vol. 170; p. 353.
Johnson, Martin E., Chicago, Ill. Die-stock oiler. No. 981,567; Jan. 10; Sp. p. 3137; Gaz. vol. 162; p. 511.
Johnson, Martin E., Chicago, Ill. Flat-iron heater. No. 986,393; Mar. 7; Sp. p. 1344; Gaz. vol. 164; p. 216.
Johnson, Mary C., Oroville, Cal. Skirt-marker. No. 1,001,275; Aug. 22; Sp. p. 4460; Gaz. vol. 169; p. 810.
Johnson, Mary E., trustee. (See Cobb, Lyman H., assignor.)
Johnson, Maurice B., San Antonio, Tex. Combined wire and wireless telephone system. No. 996,088; June 27; Sp. p. 4340; Gaz. vol. 167; p. 786.
Johnson, Maurice B., San Antonio, Tex. Combined wire and wireless telegraph system. No. 996,089; June 27; Sp. p. 4342; Gaz. vol. 167; p. 786.
Johnson, Maurice B., San Antonio, Tex. Wireless telephone system. No. 996,090; June 27; Sp. p. 4344; Gaz. vol. 167; p. 787.
Johnson, Maurice B., San Antonio, Tex. Spark-gap muffler. No. 996,091; June 27; Sp. p. 4346; Gaz. vol. 167; p. 787.
Johnson, Maurice B., San Antonio, Tex. Box for carrying wireless signaling apparatus. No. 996,092; June 27; Sp. p. 4347; Gaz. vol. 167; p. 787.
Johnson, Maurice B., San Antonio, Tex. Detector for wireless signaling apparatus. No. 1,009,317; Nov. 21; Sp. p. 3776; Gaz. vol. 172; p. 658.
Johnson, Milton A., Denison, Iowa. Buggy-wrench. No. 986,716; Mar. 14; Sp. p. 2033; Gaz. vol. 164; p. 356.
Johnson, Nathaniel J., and R. L. Stalans, Atwood, Okla. Churn. No. 1,003,910; Sept. 19; Sp. p. 3716; Gaz. vol. 170; p. 662.
Johnson, Nels A. (See Lawson, August, assignor.)
Johnson, Nels A., Jamestown, N. Y. Automatic draw-bench head. No. 988,348; Apr. 4; Sp. p. 119; Gaz. vol. 165; p. 21.
Johnson, Newton, Basalt, Idaho. Beet-digger. No. 1,001,039; Aug. 22; Sp. p. 3985; Gaz. vol. 169; p. 733.
Johnson, Nikoline, administratrix. (See Johnson, Ole.)
Johnson, Ole, Clear Lake, S. D. Shock gatherer and loader. No. 986,717; Mar. 14; Sp. p. 2034; Gaz. vol. 164; p. 357.
Johnson, Ole, deceased, Milwaukee, Wis.; N. Johnson, administratrix. Apparatus for elevating, transporting, and discharging material. No. 985,417; Feb. 28; Sp. p. 4681; Gaz. vol. 163; p. 835.
Johnson, Ole, deceased; N. Johnson, administratrix, Milwaukee, Wis. Apparatus for elevating, transporting, and discharging material. No. 994,004; May 30; Sp. p. 6792; Gaz. vol. 166; p. 1220.
Johnson, Oliver E. (See Grogan and Johnson.)
Johnson, Oliver J., Wheeling, W. Va. Wax-sealed can. No. 982,070; Jan. 17; Sp. p. 4242; Gaz. vol. 162; p. 707.
Johnson, Orval T., Murphysboro, Ill. Automatic pressure-retainer. No. 1,006,223; Oct. 17; Sp. p. 3653; Gaz. vol. 171; p. 643.
Johnson, Oscar L., Streator, Ill. Bracket. No. 980,532; Jan. 3; Sp. p. 781; Gaz. vol. 162; p. 124.
Johnson, Oscar R., Providence, R. I. Cuff-button. No. 998,907; July 25; Sp. p. 5059; Gaz. vol. 168; p. 908.
Johnson, Perle M. (See Hohmann, Richard K., assignor.)
Johnson, Peter J., Shelley, Idaho. Wrench. No. 1,012,646; Dec. 26; Sp. p. 4987; Gaz. vol. 173; p. 896.
Johnson, Preston L., Crossnore, N. C. Convertible street-car. No. 1,011,802; Dec. 12; Sp. p. 3155; Gaz. vol. 173; p. 527.
Johnson, Reginald W., Springfield, Nebr. Mechanism for supplying engine-tenders with water. No. 1,009,072; Nov. 21; Sp. p. 3223; Gaz. vol. 172; p. 571.
Johnson, Reinhold, Portland, Oreg. Mold. No. 994,643; June 6; Sp. p. 1145; Gaz. vol. 167; p. 187.
Johnson, Renus E. (See Pike and Johnson.)
Johnson, Richard C. (See Hill and Johnson.)
Johnson, Richard P., New York, N. Y. Sugar-remover for centrifugal machines. No. 985,679; Feb. 28; Sp. p. 5249; Gaz. vol. 163; p. 927.
Johnson, Robert C., Leicester, England. Table for application to chairs. No. 1,008,037; Nov. 7; Sp. p. 844; Gaz. vol. 172; p. 134.
Johnson, Robert H., Anson, Tex. Equalizer for pump-rods. No. 994,928; June 13; Sp. p. 1848; Gaz. vol. 167; p. 325.
Johnson, Samuel, Battle Creek, Mich. Adjustable barbell. No. 983,372; Feb. 7; Sp. p. 250; Gaz. vol. 163; p. 42.
Johnson, Samuel A., Tuskegee, Ala. Heating-stove. No. 986,922; Mar. 14; Sp. p. 2472; Gaz. vol. 164; p. 428.
Johnson, Samuel W. (See Morton, Milo A., assignor.)
Johnson, Seward T., Oakland, Cal. Oil-burner. No. 1,009,525; Nov. 21; Sp. p. 4248; Gaz. vol. 172; p. 732.
Johnson, Sigfrid, St. Charles, Ill. Elevator. No. 1,009,318; Nov. 21; Sp. p. 3777; Gaz. vol. 172; p. 658.
Johnson, Simon P., Westpoint, Nebr. Wheel. No. 1,004,655; Oct. 3; Sp. p. 225; Gaz. vol. 171; p. 39.
Johnson, Sybil, *et al.* (See Foust, Henry, assignor.)
Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Double-barreled shotgun. No. 995,790; June 20; Sp. p. 3719; Gaz. vol. 167; p. 648.
Johnson, Victor, New York, assignor of one-fourth to O. Sandholm, Rockaway Beach, N. Y. Conveyer. No. 987,302; Mar. 21; Sp. p. 3273; Gaz. vol. 164; p. 588.
Johnson, Vincent, Aspen, assignor to The Johnson Implement Company, Denver, Colo. Beet-topper. No. 995,350; June 13; Sp. p. 2717; Gaz. vol. 167; p. 465.
Johnson, Walter, Middletown, Conn. Egg-carrier. No. 1,004,791; Oct. 3; Sp. p. 520; Gaz. vol. 171; p. 86.
Johnson, Walter A., and C. H. Knothe, Fort Wayne, Ind. Adjustable stop for machine-tool holders. No. 1,000,011; Aug. 8; Sp. p. 1644; Gaz. vol. 169; p. 308.
Johnson, Walter H., West Roxbury, assignor of one-half to C. T. Saul, Waltham, Mass. Machine for grinding lenses. No. 1,001,410; Aug. 22; Sp. p. 4762; Gaz. vol. 169; p. 858.
Johnson, Walter L., assignor of one-half to Bell Brothers, Limited, Middlesbrough, England. Generating steam. No. 1,005,711; Oct. 10; Sp. p. 2505; Gaz. vol. 171; p. 430.
Johnson, William C., assignor to The Hull Manufacturing Company, Topeka, Kans. Sanitary bed-basin holder. No. 982,965; Jan. 31; Sp. p. 6119; Gaz. vol. 162; p. 1069.
Johnson, William F., Basin, Wyo. Ice-forming apparatus. No. 985,601; Feb. 28; Sp. p. 5097; Gaz. vol. 163; p. 901.
Johnson, William H., Artesia, N. Mex. Ink-well. No. 1,001,276; Aug. 22; Sp. p. 4462; Gaz. vol. 169; p. 810.
Johnson, William H., Revere, assignor to J. A. Hewes and F. W. Potter, Boston, Mass. Man's garter. No. 985,904; Mar. 7; Sp. p. 314; Gaz. vol. 164; p. 51.
Johnson, William L., Canton, Ohio. Winding-indicator for timepieces. No. 1,011,437; Dec. 12; Sp. p. 2323; Gaz. vol. 173; p. 397.
Johnson, William S., Los Angeles, Cal. Engine-starter. No. 1,001,277; Aug. 22; Sp. p. 4463; Gaz. vol. 169; p. 811.
Johnson, William W. (See Wilson, Simeon, assignor.)
Johnson, Woolsey M., assignor to The Continuous Zinc Furnace Company, Hartford, Conn. Apparatus for smelting ores yielding a volatile metal. (Reissue.) No. 13,208; Feb. 14; Sp. p. 2762; Gaz. vol. 163; p. 463.
Johnsonbaugh, Henry K. (See Johnsonbaugh, Lee O., assignor.)
Johnsonbaugh, Lee O., Lebanon, assignor of one-half to H. K. Johnsonbaugh, Muncie, Ind. Air-brake emergency-valve. No. 1,001,040; Aug. 22; Sp. p. 3987; Gaz. vol. 169; p. 733.
Johnston, Allen, Ottumwa, Iowa. Making gearing. No. 985,905; Mar. 7; Sp. p. 315; Gaz. vol. 164; p. 51.
Johnston, Allen, Ottumwa, Iowa. Making sheet-metal gearing. No. 988,106; Mar. 28; Sp. p. 5023; Gaz. vol. 164; p. 891.
Johnston, Allen, Ottumwa, Iowa. Press for making side plates for sash-pulley casings. No. 994,929; June 13; Sp. p. 1849; Gaz. vol. 167; p. 325.
Johnston, Allen, Ottumwa, Iowa. Manufacturing sheet-metal side plates for sash-pulley casings. No. 994,930; June 13; Sp. p. 1852; Gaz. vol. 167; p. 325.
Johnston, Andrew. (See Jones and Johnston.)
Johnston, Clarence L., Emeryville, Cal. Multiple-numbering machine. No. 987,372; Mar. 21; Sp. p. 3405; Gaz. vol. 164; p. 611.
Johnston, Edward A., Akron, Ohio, assignor to International Harvester Company. Gearing. No. 989,712; Apr. 18; Sp. p. 3041; Gaz. vol. 165; p. 536.
Johnston, Edward A., Akron, Ohio, assignor to International Harvester Company. Cooling-fan for explosive-engines. No. 990,139; Apr. 18; Sp. p. 3937; Gaz. vol. 165; p. 679.

Alphabetical list of patentees—Continued.

Johnston, Edward A., Chicago, Ill., assignor to International Harvester Company. Igniter mechanism for explosive-engines. No. 993,528; May 30; Sp. p. 5792; Gaz. vol. 166; p. 1058.
Johnston, Edward A., and C. I. Longenecker, Chicago, Ill., assignors to International Harvester Company. Power-transmitting gear mechanism. No. 1,004,880; Oct. 3; Sp. p. 737; Gaz. vol. 171; p. 118.
Johnston, Frederick E., Pittsburg, Pa. Etching-machine. No. 995,148; June 13; Sp. p. 2294; Gaz. vol. 167; p. 398.
Johnston, George, Chihuahua, Mexico. Filtering apparatus. No. 988,107; Mar. 28; Sp. p. 5026; Gaz. vol. 164; p. 891.
Johnston, George, Chihuahua, Mexico. Ore crusher or grinder. No. 991,317; May 2; Sp. p. 1056; Gaz. vol. 166; p. 176.
Johnston, Hamilton W., and C. J. Heckmann, Los Angeles, Cal. Sad-iron. No. 989,157; Apr. 11; Sp. p. 1823; Gaz. vol. 165; p. 316.
Johnston, Harry B., Salt Lake City, Utah, assignor, by mesne assignments, to Model Manufacturing Company. Drum-screen for fishways. No. 1,002,208; Aug. 29; Sp. p. 6406; Gaz. vol. 169; p. 1154.
Johnston, Harry B., Salt Lake City, Utah, assignor, by mesne assignments, to The Model Manufacturing Company. Milk-can and the like. No. 1,003,609; Sept. 19; Sp. p. 3109; Gaz. vol. 170; p. 560.
Johnston, Howard A., Toronto, Ontario, Canada. Dish-washing machine. No. 993,602; May 30; Sp. p. 5948; Gaz. vol. 166; p. 1083.
Johnston, James S., Utica, assignor to L. N. Littauer, Nyack, N. Y. Attachment for guiding edging to sewing-machines. No. 1,006,096; Oct. 17; Sp. p. 3341; Gaz. vol. 171; p. 596.
Johnston, John. (See Potter and Johnston.)
Johnston, John F., Bethlehem, Pa. Sheet-piling. No. 993,779; May 30; Sp. p. 6351; Gaz. vol. 166; p. 1145.
Johnston, John I., *et al.* (See Baublits, Don P., assignor.)
Johnston, John T., Omaha, Nebr. Mail-box. No. 996,719; July 4; Sp. p. 246; Gaz. vol. 168; p. 42.
Johnston, Joseph E., Pomona, Cal. System of irrigation. No. 988,639; Apr. 4; Sp. p. 754; Gaz. vol. 165; p. 120.
Johnston, Jotham U., and J. E. Futer, Gap, Pa. Railway-tie. No. 1,005,975; Oct. 17; Sp. p. 3091; Gaz. vol. 171; p. 555.
Johnston, Norton W. (See Johnston, Willis, assignor.)
Johnston, Patrick, Williams, Ariz. Brake for logging-carts. No. 981,568; Jan. 10; Sp. p. 3139; Gaz. vol. 162; p. 512.
Johnston, Philip D., Cold Spring, N. Y., assignor to American Oil Engine Company. Mixing-valve for hydrocarbon-engines. No. 982,825; Jan. 31; Sp. p. 5815; Gaz. vol. 162; p. 1023.
Johnston, Philip D., Cold Spring, N. Y., assignor to American Oil Engine Company. Mixing-valve for internal-combustion engines. No. 982,826; Jan. 31; Sp. p. 5818; Gaz. vol. 162; p. 1023.
Johnston, Philip D., Cold Spring, N. Y., assignor to American Oil Engine Company. Device for supplying oil to internal-combustion engines. No. 997,136; July 4; Sp. p. 1130; Gaz. vol. 168; p. 183.
Johnston, Robert D., Jr., Birmingham, Ala. Switch-operating mechanism. No. 1,005,226; Oct. 10; Sp. p. 1409; Gaz. vol. 171; p. 258.
Johnston, Robert D., Jr., assignor to International Automatic Railway Switch Company, Birmingham, Ala. Automatic switch mechanism. No. 1,000,917; Aug. 15; Sp. p. 3655; Gaz. vol. 169; p. 656.
Johnston, Robert J., Chicago, Ill. Match-box. No. 1,003,911; Sept. 19; Sp. p. 3717; Gaz. vol. 170; p. 662.
Johnston, Robert T., Plainfield, assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Printing-press bed. No. 1,010,918; Dec. 5; Sp. p. 1161; Gaz. vol. 173; p. 182.
Johnston, Samuel. (See Kempf, Herman H., assignor.)
Johnston, Thomas A., Chadron, assignor of one-fourth to T. L. Finley, Long Pine, Nebr. Rod-packing. No. 982,182; Jan. 17; Sp. p. 4437; Gaz. vol. 162; p. 743.
Johnston, Thomas E., Amite, La., assignor to Gullett Gin Company. Cotton cleaner and separator. No. 985,037; Feb. 21; Sp. p. 3815; Gaz. vol. 163; p. 673.
Johnston, William, Winnipeg, Manitoba, Canada. Grain-tank. No. 996,254; June 27; Sp. p. 4727; Gaz. vol. 167; p. 841.
Johnston, William, and W. Hirons, Winnipeg, Manitoba, Canada. Storm-window. No. 1,013,090; Dec. 26; Sp. p. 5992; Gaz. vol. 173; p. 1048.
Johnston, William B., Clinton, Okla. Crude-oil burner. No. 1,004,573; Oct. 3; Sp. p. 54; Gaz. vol. 171; p. 11.
Johnston, William D., and M. J. O'Leary, Chickasha, Okla. Lathe attachment. No. 1,012,362; Dec. 19; Sp. p. 4403; Gaz. vol. 173; p. 754.
Johnston, William E., *et al.* (See Baublits, Don P., assignor.)
Johnston, William T. (See Lathrop, Schweizer, and Johnston.)
Johnston, Willis, Schenectady, assignor of three-fourths to N. W. Johnston, Chappaqua, N. Y. Thill-coupling. No. 992,429; May 16; Sp. p. 3449; Gaz. vol. 166; p. 620.
Johnstone, Herbert W., Highland, Cal. Spiral hinge. No. 991,512; May 9; Sp. p. 1461; Gaz. vol. 166; p. 274.
Johnstone, Lewis, deceased, (W. B. Pritchard, Jr., executor,) Chester, assignor of one-third to W. B. Pritchard and one-third to H. P. Mellor, Manchester, England. Spring-wheel. No. 1,006,384; Oct. 17; Sp. p. 4007; Gaz. vol. 171; p. 698.
Johnstone, Robert L. (See Matthews, Johnstone, and Cash.)
Joice, Chesley, Hollister, Cal. Plumb-bob. No. 995,872; June 20; Sp. p. 3897; Gaz. vol. 167; p. 676.
Jolley, Hollis, assignor of one-half to J. I. Branin, Dayton, Ohio. Canopy attachment for motor-cycles. No. 988,349; Apr. 4; Sp. p. 122; Gaz. vol. 165; p. 22.
Jolly, Harvey, Pittsburgh, Pa. Trolley. No. 1,008,968; Nov. 14; Sp. p. 2988; Gaz. vol. 172; p. 498.
Jolma, Arnet T., Clatskanie, Oreg. Steam-whistle. No. 1,000,012; Aug. 8; Sp. p. 1645; Gaz. vol. 169; p. 309.
Jonah, Frank E., Moncton, New Brunswick, assignor of two-fifths to F. A. McCully, Moncton, Canada. Railway-rail-brace spike. No. 1,001,529; Aug. 22; Sp. p. 4962; Gaz. vol. 169; p. 896.
Jonas, James I., Bondtown, Va. Rail-brace. No. 997,391; July 11; Sp. p. 1662; Gaz. vol. 168; p. 301.
Jonassen, Even, and F. Pytterud, Christiania, Norway. Pulp-refining engine. No. 1,002,698; Sept. 5; Sp. p. 1139; Gaz. vol. 170; p. 172.
Jonasson, Nils, Cosmopolis, Wash., assignor of one-half to W. F. McGregor, Astoria, Oreg. Floating fish-trap. No. 1,001,760; Aug. 29; Sp. p. 5474; Gaz. vol. 169; p. 1006.
Jonata, Frank, New York, N. Y. Life-belt. No. 998,522; July 18; Sp. p. 4173; Gaz. vol. 168; p. 738.
Jones, Adolph W., Oakland, Cal. Rock-crusher. No. 997,918; July 11; Sp. p. 2825; Gaz. vol. 168; p. 483.
Jones, Albert E., assignor to Whitehead and Company, Fiume, Austria-Hungary. Automobile torpedo. No. 996,412; June 27; Sp. p. 5121; Gaz. vol. 167; p. 897.
Jones, Albert E., assignor to Whitehead and Company, Fiume, Austria-Hungary. Percussion mechanism of automobile torpedoes. No. 1,005,042; Oct. 3; Sp. p. 1033; Gaz. vol. 171; p. 172.
Jones, Albert E., assignor to Whitehead and Company, Fiume, Austria-Hungary. Means for the propulsion of automobile torpedoes. No. 1,005,647; Oct. 10; Sp. p. 2383; Gaz. vol. 171; p. 409.
Jones, Albert W., Brookfield, Mo. Music-roll. No. 1,008,156; Nov. 7; Sp. p. 1081; Gaz. vol. 172; p. 177.
Jones, Alva D., assignor to American Street Cleaner Company, Louisville, Ky. Street-sweeping apparatus. No. 993,603; May 30; Sp. p. 5950; Gaz. vol. 166; p. 1083.
Jones, Arthur B., St. Johns, Mich. Means for neutralizing force. No. 983,237; Jan. 31; Sp. p. 6685; Gaz. vol. 162; p. 1161.
Jones, Arthur O., Whitley Bay, England. Coke-oven. No. 1,008,718; Nov. 14; Sp. p. 2461; Gaz. vol. 172; p. 416.
Jones, Athelstan O., St. Louis, Mo. Device for handling bricks. No. 1,010,501; Dec. 5; Sp. p. 229; Gaz. vol. 173; p. 37.
Jones, Axel R., Jamestown, N. Y. Fireproof door. No. 1,012,860; Dec. 26; Sp. p. 5481; Gaz. vol. 173; p. 970.
Jones, Benjamin G. (See Thompson and Jones.)
Jones, Charles A., assignor of one-half to W. B. Dorton, Concord, N. C. Bottle-vending machine. No. 984,223; Feb. 14; Sp. p. 2115; Gaz. vol. 163; p. 359.
Jones, Charles K., Kansas City, Mo. Printing-telegraph. No. 982,274; Jan. 24; Sp. p. 4637; Gaz. vol. 162; p. 805.
Jones, Charles K., Kansas City, Mo. Printing-telegraph. No. 982,275; Jan. 24; Sp. p. 4648; Gaz. vol. 162; p. 806.
Jones, Charles K., Kansas City, Mo. Printing-telegraph. No. 982,276; Jan. 24; Sp. p. 4659; Gaz. vol. 162; p. 807.
Jones, Clayton M., Jamestown, N. Y. Sheet-metal construction. No. 988,574; Apr. 4; Sp. p. 609; Gaz. vol. 165; p. 98.
Jones, Clinton B. (See Jones, Clinton C. and C. B.)
Jones, Clinton C. and C. B., Albuquerque, N. Mex. Running-gear for automobiles. No. 995,873; June 20; Sp. p. 3898; Gaz. vol. 167; p. 677.
Jones, Cyrus F., Oregon, Ill. Note-sheet-feed mechanism for musical-instrument players. No. 982,277; Jan. 24; Sp. p. 4670; Gaz. vol. 162; p. 807.
Jones, Daniel A., Oshkosh, Wis. Folding anchor. No. 999,795; Aug. 8; Sp. p. 1196; Gaz. vol. 169; p. 235.
Jones, Daniel P., Westminster, London, England. Device for gripping, fastening, or locking purposes. No. 1,005,227; Oct. 10; Sp. p. 1413; Gaz. vol. 171; p. 258.
Jones, Daniel P., assignor to The Patent Rapid Scaffold Tie Company Limited, London, England. Connecting together scaffolding-poles. No. 998,776; July 25; Sp. p. 4763; Gaz. vol. 168; p. 860.
Jones, David C. (See Watts, Jones, and Barton.)
Jones, David N., Gaylord, Minn. Tire-protector. No. 1,007,874; Nov. 7; Sp. p. 525; Gaz. vol. 172; p. 79.
Jones, Edgar M., Morenci, Ariz. Fuel-oil regulator. No. 990,744; Apr. 25; Sp. p. 5343; Gaz. vol. 165; p. 922.
Jones, Edwin, Llanerch-y-mor, Holywell, assignor of one-half to J. A. Stuart, Prestatyn, North Wales, England. Brake-block and holder. No. 994,845; June 13; Sp. p. 1654; Gaz. vol. 167; p. 296.
Jones, Edwin W. (See Reavell and Jones.)

Alphabetical list of patentees—Continued.

Jones, Ernest H., Islington, London, England. Manufacturing wheels or pulleys. No. 987,141; Mar. 21; Sp. p. 2888; Gaz. vol. 164: p. 530.
Jones, F. W. (See Oliver, Herman E., assignor.)
Jones, Floyd D., Kansas City, Mo. Safety-razor. No. 991,998; May 9; Sp. p. 2477; Gaz. vol. 166; p. 440.
Jones, Floyd D., Kansas City, Mo. Safety-razor. No. 998,009; July 18; Sp. p. 3054; Gaz. vol. 168; p. 556.
Jones, Floyd D., Kansas City, Mo., assignor, by mesne assignments, to Commercial Camera Company, Providence, R. I. Copy-holder. No. 1,000,605; Aug. 15; Sp. p. 3000; Gaz. vol. 169; p. 548.
Jones, Francis M., Patton, Mo. Corn-shocker. No. 1,000,815; Aug. 15; Sp. p. 3448; Gaz. vol. 169; p. 621.
Jones, Francis W., Chicago, Ill. Essence-bottle. No. 982,966; Jan. 31; Sp. p. 6120; Gaz. vol. 162; p. 1069.
Jones, Frank B., Shreveport, La. Rotating steam-feed for sawmill-carriages. No. 1,011,803; Dec. 12; Sp. p. 3157; Gaz. vol. 173; p. 527.
Jones, Frank H., assignor to Warner Gear Company, Muncie, Ind. Transmission-gearing. No. 991,318; May 2; Sp. p. 1058; Gaz. vol. 166; p. 177.
Jones, Frank H., assignor to Warner Gear Company, Muncie, Ind. Transmission-gearing. No. 992,718; May 16; Sp. p. 4029; Gaz. vol. 166; p. 720.
Jones, Frank H., assignor to Warner Gear Company, Muncie, Ind. Steering-gear. No. 997,919; July 11; Sp. p. 2826: Gaz. vol. 168; p. 483.
Jones, Frank T. (See Jones, Richard T. and F. T.)
Jones, Fred A., *et al.* (See Larsson, Thure, assignor.)
Jones, Fred D., *et al.* (See Davis, Charles F., assignor.)
Jones, Frederick B., Somerville, assignor of one-half to R. C. Hammond, Medford, Mass. Garbage-receptacle. No. 1,009,842; Nov. 28; Sp. p. 4888; Gaz. vol. 172; p. 883.
Jones, Frederick G. (See Campbell, John H., assignor.)
Jones, Frederick O., Columbus, Ohio. Car-coupling. No. 991,209; May 2; Sp. p. 816; Gaz. vol. 166; p. 138.
Jones, Fredrick, and R. R. Hilton, Minneapolis, Minn. Miter-square. No. 1,004,434; Sept. 26; Sp. p. 4950; Gaz. vol. 170; p. 870.
Jones, George D., Kokomo, Ind. Trousers-belt. No. 983,449; Feb. 7; Sp. p. 412; Gaz. vol. 163; p. 67.
Jones, George H., Aldan, Pa. Valve-gearing. No. 986,175; Mar. 7; Sp. p. 876; Gaz. vol. 164; p. 141.
Jones, George W. (See Hodgkinson, Frank E., assignor.)
Jones, George W., Detroit, Mich. Ore-concentrator. No. 999,456; Aug. 1; Sp. p. 518; Gaz. vol. 169; p. 91.
Jones, H. L., *et al.* (See Cumley, John W., assignor.)
Jones, Harley H., Everett, Mass., assignor to Sanitary Cement Company. Cement sink construction. No. 990,986; May 2; Sp. p. 337; Gaz. vol. 166; p. 58.
Jones, Harry. (See Gallagher and Jones.)
Jones, Harry. (See Wingert and Jones.)
Jones, Harry, Richmond, Ind. Pump-plunger. No. 1,005,976; Oct. 17; Sp. p. 3092; Gaz. vol. 171; p. 555.
Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Cutting blanks for brake-shoe backs. No. 995,011; June 13; Sp. p. 2016; Gaz. vol. 167; p. 353.
Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Brake-shoe with cast-metal insert. No. 995,012; June 13; Sp. p. 2017; Gaz. vol. 167; p. 354.
Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Brake-shoe with corrugated and perforated insert. No. 995,013; June 13; Sp. p. 2022; Gaz. vol. 167; p. 354.
Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Brake-shoe. No. 995,014; June 13; Sp. p. 2024; Gaz. vol. 167; p. 354.
Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Forming metallic gaskets in manhole-frames. No. 995,015; June 13; Sp. p. 2025; Gaz. vol. 167; p. 354.
Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Brake-shoe. No. 995,067; June 13; Sp. p. 2146; Gaz. vol. 167; p. 372.
Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Brake-shoe. No. 995,149; June 13; Sp. p. 2296; Gaz. vol. 167; p. 398.
Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Locking mechanism for manhole-covers. No. 1,001,041; Aug. 22; Sp. p. 3990; Gaz. vol. 169; p. 734.
Jones, Harry, Suffern, assignor to E. H. Fallows, New York, N. Y. Manhole-cover. No. 1,011,625; Dec. 12; Sp. p. 2803; Gaz. vol. 173; p. 467.
Jones, Harry H., Lancaster, N. H. Belt-clamp. No. 1,006,224; Oct. 17; Sp. p. 3655; Gaz. vol. 171; p. 643.
Jones, Helen, Los Angeles, Cal. Safety hat-pin. No. 982,727; Jan. 24; Sp. p. 5586; Gaz. vol. 162; p. 961.
Jones, Henery W., Cedar Rapids, Iowa. Spark-plug. No. 988,785; Apr. 4; Sp. p. 1061; Gaz. vol. 165; p. 170.
Jones, Henry, Wilmington, Del. Detonating alarm. No. 1,005,844; Oct. 17; Sp. p. 2787; Gaz. vol. 171; p. 508.
Jones, Henry L., Leadville, Colo. Sleigh attachment for vehicles. No. 1,002,916; Sept. 12; Sp. p. 1660; Gaz. vol. 170; p. 287.
Jones, Henry M. (See Thurston, Fredrick A., assignor.)
Jones, Herbert F., Oconto, Wis. Pen-extractor. No. 990,560; Apr. 25; Sp. p. 4932; Gaz. vol. 165; p. 861.
Jones, Homer K., Memphis, Tenn. Time-calculating machine. No. 995,466; June 20; Sp. p. 2986; Gaz. vol. 167; p. 533.
Jones, Horace K. (See Glover and Jones.)
Jones, Iwan E. (See Tanner and Jones.)
Jones, James A., Logansport, Ind. Cleaner for chalk-erasers. No. 1,006,385; Oct. 17; Sp. p. 4010; Gaz. vol. 171; p. 699.
Jones, James E., Richmond, Ind. Steam-actuated water-trap. No. 982,967; Jan. 31; Sp. p. 6122; Gaz. vol. 162; p. 1070.
Jones, James E., Richmond, Ind. Sash-operating device. No. 1,007,953; Nov. 7; Sp. p. 690; Gaz. vol. 172; p. 107.
Jones, James M., Buffalo, N. Y. Device for laying underground wires. No. 983,373; Feb. 7; Sp. p. 252; Gaz. vol. 163; p. 43.
Jones, James M., Buffalo, N. Y. Safety-guard for stamping-presses. No. 1,005,775; Oct. 10; Sp. p. 2630; Gaz. vol. 171; p. 453.
Jones, James M., Hamilton, Ontario, Canada. Safety-guard. No. 1,001,858; Aug. 29; Sp. p. 5682; Gaz. vol. 169; p. 1040.
Jones, James M., Hamilton, Ontario, Canada. Coupling device. No. 1,004,574; Oct. 3; Sp. p. 55; Gaz. vol. 171; p. 11.
Jones, James M., Hamilton, Ontario, Canada. Chain. No. 1,004,575; Oct. 3; Sp. p. 57; Gaz. vol. 171; p. 12.
Jones, James M., Wayne, Nebr. Nut-lock. No. 1,005,116; Oct. 3; Sp. p. 1159; Gaz. vol. 171; p. 196.
Jones, James S., Harrison, Ark. Harrow. No. 1,006,482; Oct. 24; Sp. p. 4245; Gaz. vol. 171; p. 762.
Jones, James W., Douglas, Ariz. Rail-clamping chair. No. 998,010; July 18; Sp. p. 3056; Gaz. vol. 168; p. 557.
Jones, Jesse, Wilmerding, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alloy. No. 998,777; July 25; Sp. p. 4765; Gaz. vol. 168; p. 861.
Jones, Jesse L., Oakmont, Pa., assignor to Westinghouse Electric and Manufacturing Company. Babbitt material. No. 981,767; Jan. 17; Sp. p. 3546; Gaz. vol. 162; p. 601.
Jones, John, New York, N. Y. Safety-gate. No. 986,574; Mar. 14; Sp. p. 1738; Gaz. vol. 164; p. 308.
Jones, John, and H. S. Bohm, Shandon Hill, Mount Morgan, Queensland, Australia. Treatment of gold-bearing antimony ores. No. 984,090; Feb. 14; Sp. p. 1826; Gaz. vol. 163; p. 314.
Jones, John B., Philadelphia, Pa. Water-heater. No. 998,181; July 18; Sp. p. 3425; Gaz. vol. 168; p. 618.
Jones, John C., *et al.* (See Gamble, Joseph W., assignor.)
Jones, John G., Montgomery City, Mo. Flooring-clamp. No. 981,569; Jan. 10; Sp. p. 3141; Gaz. vol. 162; p. 512.
Jones, John G., Carthage, N. Y. Burning lime. No. 1,011,804; Dec. 12; Sp. p. 3159; Gaz. vol. 173; p. 528.
Jones, John M. (See Michel and Jones.)
Jones, John N., *et al.* (See Davis, Charles F., assignor.)
Jones, John T. (See Keefe, Dennis M., assignor.)
Jones, John T., Iron Mountain, Mich. Reducing iron ore. No. 981,280; Jan. 10; Sp. p. 2536; Gaz. vol. 162; p. 413.
Jones, John W., Chanute, Kans. Lubricator for axles. No. 990,361; Apr. 25; Sp. p. 4459; Gaz. vol. 165; p. 789.
Jones, Joseph W., New York, N. Y. Odometer. No. 1,005,845; Oct. 17; Sp. p. 2789; Gaz. vol. 171; p. 508.
Jones, Joseph W., Canton, Ohio. Heating apparatus. No. 1,011,438; Dec. 12; Sp. p. 2326; Gaz. vol. 173; p. 398.
Jones, Joshua J., Pittsburgh, Pa. Sign. No. 1,006,483; Oct. 24; Sp. p. 4246; Gaz. vol. 171; p. 763.
Jones, Joshua J., assignor of one-half to B. Rutherfoord, Pittsburg, Pa. Pencil-sharpener. No. 1,004,435; Sept. 26; Sp. p. 4951; Gaz. vol. 170; p. 870.
Jones, Joshua W., Harrisburg, Pa. Coin-holder or change-maker. No. 1,007,704; Nov. 7; Sp. p. 115; Gaz. vol. 172; p. 18.
Jones, Kinsey, Waukesha, Wis. Sleigh-runner. No. 1,000,092; Aug. 8; Sp. p. 1858; Gaz. vol. 169; p. 336.
Jones, Laban E., Anaconda, Mont. Centrifugal concentrator. No. 992,876; May 23; Sp. p. 4384; Gaz. vol. 166; p. 805.
Jones, Lloyd S. (See Neatherland, Ranken A., assignor.)
Jones, Lyman D., assignor to E. E. Brandeau, Bridgeport, Conn. Detachable calk for horses. No. 996,720; July 4; Sp. p. 247; Gaz. vol. 168; p. 43.
Jones, Lyman M., assignor to The Massey-Harris Company, Limited, Toronto, Ontario, Canada. Pitman connection. No. 985,906; Mar. 7; Sp. p. 319; Gaz. vol. 164; p. 51.
Jones, Lyman M., and A. Johnston, assignors to Massey-Harris Co. Ltd., Toronto, Ontario, Canada. Hay-rake No. 996,255; June 27; Sp. p. 4730; Gaz. vol. 167; p. 841.
Jones, Lyman R. (See Danielson and Jones.)
Jones, Mabel A. O., Rochester, N. Y. Extension-step for cars. No. 999,653; Aug. 1; Sp. p. 899; Gaz. vol. 169; p. 157.
Jones Manufacturing Co. (See Jones, Ralph W., assignor.)
Jones, Morgan D., Florala, Ala. Level. No. 991,622; May 9; Sp. p. 1712; Gaz. vol. 166; p. 314.
Jones, Oliver P., Beaumont, Tex. Pictorial firmamental machine. No. 988,471; Apr. 4; Sp. p. 388; Gaz. vol. 165; p. 62.

Alphabetical list of patentees—Continued.

Jones, Orsemus L. R., Detroit, Mich. Rotary internal-combustion engine. No. 985,907; Mar. 7; Sp. p. 320; Gaz. vol. 164; p. 52.
Jones, Owen H., Hartford, Conn. Ball-cock. No. 981,570; Jan. 10; Sp. p. 3142; Gaz. vol. 162; p. 512.
Jones, Palmer A. (See Moulton and Jones.)
Jones, Paul. (See Davis, Michael J., assignor.)
Jones, Paul, assignor of one-third to A. N. Soliss, Ontario, Oreg. Surveying instrument. No. 997,826; July 11; Sp. p. 2625; Gaz. vol. 168; p. 451.
Jones, Ralph S., Goodrich, Wis. Fence-post. No. 984,142; Feb. 14; Sp. p. 1922; Gaz. vol. 163; p. 330.
Jones, Ralph W., Lincoln, Nebr., assignor to Jones Manufacturing Co., Chicago, Ill. Stamp-handling device. No. 1,003,267; Sept. 12; Sp. p. 2383; Gaz. vol. 170; p. 410.
Jones, Richard G., Los Angeles, Cal. Method of and means for separating crude petroleum from moisture, bases, and sand. No. 1,005,977; Oct. 17; Sp. p. 3094; Gaz. vol. 171; p. 556.
Jones, Richard O., assignor, by mesne assignments, to The Computing Scale Company, Dayton, Ohio. Centrifugal pump. No. 981,199; Jan. 10; Sp. p. 2327; Gaz. vol. 162; p. 383.
Jones, Richard T., Baltimore, Md. Electrically-controlled valve. No. 993,072; May 23; Sp. p. 4818; Gaz. vol. 166; p. 874.
Jones, Richard T. and F. T., Baltimore, Md. Contact-shoe. No. 987,991; Mar. 28; Sp. p. 4783; Gaz. vol. 164; p. 853.
Jones, Richard T. and F. T., Baltimore, Md. Electrically-controlled safety appliance for railways. No. 996,344; June 27; Sp. p. 4953; Gaz. vol. 167; p. 872.
Jones, Richard T. and F. T., assignors to The Jones Safety Train Control System Company, Baltimore, Md. Electric train-controlling device for railways. No. 1,010,371; Nov. 28; Sp. p. 5960; Gaz. vol. 172; p. 1059.
Jones, Richard T. and F. T., assignors to The Jones Safety Train Control System Company, Baltimore, Md. Train-controlling mechanism. No. 1,010,372; Nov. 28; Sp. p. 5963; Gaz. vol. 172; p. 1059.
Jones, Roland E. (See Suggs, Theophilus W., assignor.)
Jones, Rufus A., and W. C. Grant, Abilene, Tex.; said Grant assignor of one-half to said Jones. Trap. No. 1,010,373; Nov. 28; Sp. p. 5968; Gaz. vol. 172; p. 1060.
Jones Safety Train Control System Company, The. (See Jones, Richard T. and F. T., assignors.)
Jones, Starky D., Georgetown, Colo. Lubricator. No. 1,002,917; Sept. 12; Sp. p. 1662; Gaz. vol. 170; p. 287.
Jones, Theodore N., Boulder, Colo. Fly-trap. No. 981,089; Jan. 10; Sp. p. 2089; Gaz. vol. 162; p. 345.
Jones, Theodore N., Boulder, Colo. Hose-coupling. No. 999,169; July 25; Sp. p. 5593; Gaz. vol. 168; p. 995.
Jones, Theodore N., Boulder, Colo., assignor of one-third to J. H. Hall, Belvidere, Nebr. Nozzle-holder for garden-hose. No. 994,005; May 30; Sp. p. 6801; Gaz. vol. 166; p. 1221.
Jones, Thomas E., New York, N. Y. Table attachment. No. 1,011,805; Dec. 12; Sp. p. 3161; Gaz. vol. 173; p. 528.
Jones, Ulysses G., administrator. (See Bailey, William H.)
Jones, W. M., *et al.* (See Sale, John H., assignor.)
Jones, Walter L., Thomson, Ill. Concrete-mixer. No. 985,602; Feb. 28; Sp. p. 5099; Gaz. vol. 163; p. 901.
Jones, Walter W., and J. T. Morgan, Columbus, Ga. Railway-crossing. No. 997,392; July 11; Sp. p. 1663; Gaz. vol. 168; p. 301.
Jones, Willard, Auburn, Me. Attachment for milk-pails. No. 999,796; Aug. 8; Sp. p. 1198; Gaz. vol. 169; p. 235.
Jones, Willard, Auburn, Me. Combination milk pail, filter, and strainer. No. 1,005,432; Oct. 10; Sp. p. 1879; Gaz. vol. 171; p. 333.
Jones, William, *et al.* (See Gay, Edward O., assignor.)
Jones, William, Denver, Colo. Truss. No. 1,005,978; Oct. 17; Sp. p. 3098; Gaz. vol. 171; p. 556.
Jones, William A., West New Brighton, N. Y. Mechanical movement. No. 1,011,126; Dec. 5; Sp. p. 1598; Gaz. vol. 173; p. 253.
Jones, William B., North Birmingham, Ala. Canopy-casket. No. 999,111; July 25; Sp. p. 5488; Gaz. vol. 168; p. 977.
Jones, William E., Chase Mills, assignor of one-half to G. H. Beverly and E. L. Bill, New York, N. Y. Cross-tie. No. 1,005,648; Oct. 10; Sp. p. 2386; Gaz. vol. 171; p. 409.
Jones, William E., and C. Carothers, Hennepin, Minn. Drawer for filing-cases and similar structures. No. 1,002,520; Sept. 5; Sp. p. 759; Gaz. vol. 170; p. 111.
Jones, William H., assignor to The Missouri Valley Bridge and Iron Company, Leavenworth, Kans. Bridge. No. 998,523; July 18; Sp. p. 4174; Gaz. vol. 168; p. 738.
Jones, William H., Manhattan Beach, assignor to Universal Mail Despatcher Company, Los Angeles, Cal. Receiving and delivering mechanism for mail-bags. No. 1,002,064; Aug. 29; Sp. p. 6122; Gaz. vol. 169; p. 1106.
Jones, William H., and B. Holmes, St. Louis, Mo. Book-index. No. 993,689; May 30; Sp. p. 6160; Gaz. vol. 166; p. 1114.
Jones, William L. (See Martin and Jones.)

Jones, William T., New York, N. Y. Convertible couch and bed. No. 982,139; Jan. 17; Sp. p. 4362; Gaz. vol. 162; p. 729.
Jones, William T., assignor to Edmunds & Jones Mfg. Co., Detroit, Mich. Lamp. No. 981,925; Jan. 17; Sp. p. 3913; Gaz. vol. 162; p. 657.
Jones, William T., assignor to Edmunds & Jones Mfg. Co., Detroit, Mich. Lamp-door-fastening device. No. 1,010,432; Dec. 5; Sp. p. 58; Gaz. vol. 173; p. 12.
Jones, William T., assignor to The Edmunds & Jones Mfg. Co., Detroit, Mich. Fastening device for lamp-doors. No. 1,011,206; Dec. 12; Sp. p. 1809; Gaz. vol. 173; p. 315.
Jones, William T., assignor to The Edmunds & Jones Mfg. Co., Detroit, Mich. Lamp. No. 1,012,647; Dec. 26; Sp. p. 4988; Gaz. vol. 173; p. 896.
Jones, Willis H. (See Linkie, Charles E., assignor.)
Jones, Wyatt A. O., assignor of one-half to W. E. Hill, Bentonville, Ark. Railway-tie. No. 1,009,526; Nov. 21; Sp. p. 4251; Gaz. vol. 172; p. 732.
Jonesku, Peter, Chicago, Ill. Ironing and pressing machine. (Reissue.) No. 13,220; Mar. 21; Sp. p. 4063; Gaz. vol. 164; p. 720.
Jonesku, Peter, Chicago, Ill. Ironing-machine. No. 994,466; June 6; Sp. p. 740; Gaz. vol. 167; p. 127.
Jonszta, Josef, Silesia, Austria-Hungary. Miner's lamp. No. 998,778; July 25; Sp. p. 4766; Gaz. vol. 168; p. 861.
Joplin, William A., Lawrence, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Bag or liner spreading device. No. 1,007,358; Oct. 31; Sp. p. 6166; Gaz. vol. 171; p. 1124.
Jordan Brothers. (See Jordan, William H., assignor.)
Jordan, Charles D. (See Benton and Jordan.)
Jordan, Charles M., Philadelphia, Pa. Rotary explosive-engine. No. 998,779; July 25; Sp. p. 4767; Gaz. vol. 168; p. 861.
Jordan, Christopher C., *et al.* (See Jordan, George A., assignor.)
Jordan, Clement T., Salitpa, Ala. Wire-tool. No. 1,011,806; Dec. 12; Sp. p. 3162; Gaz. vol. 173; p. 528.
Jordan, George A., New York, assignor of one-third to W. H. Jordan and one-third to C. C. Jordan, Brooklyn, N. Y. Hoist. No. 987,885; Mar. 28; Sp. p. 4513; Gaz. vol. 164; p. 815.
Jordan, George A., New York, assignor of one-third to W. H. Jordan and one-third to C. C. Jordan, Brooklyn, N. Y. Electric cut-out. No. 1,002,996; Sept. 12; Sp. p. 1812; Gaz. vol. 170; p. 313.
Jordan, Heinrich, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Reddish-blue trisazo dye. No. 999,797; Aug. 8; Sp. p. 1200; Gaz. vol. 169; p. 235.
Jordan, Heinrich, and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Azo dye. No. 993,073; May 23; Sp. p. 4820; Gaz. vol. 166; p. 875.
Jordan, Heinrich, and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Blue disazo dye. No. 1,000,269; Aug. 8; Sp. p. 2228; Gaz. vol. 169; p. 396.
Jordan, Heinrich, and W. Neelmeier, Leverkusen, near Cologne, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfield, Germany. Blue trisazo dye. No. 1,010,433; Dec. 5; Sp. p. 60; Gaz. vol. 173; p. 12.
Jordan, Irene C., *et al.*, executors. (See Jordan, Oswald F.)
Jordan, James, Sydney, Nova Scotia, assignor of one-third to J. W. Gordon, North Sydney, and one-third to W. Routhledge, Reserve Mines, Canada. Boat-releasing hook. No. 998,524; July 18; Sp. p. 4175; Gaz. vol. 168; p. 739.
Jordan, James A., Bangor, Ireland. Electric branding device. No. 1,006,756; Oct. 24; Sp. p. 4826; Gaz. vol. 171; p. 858.
Jordan, James J., Syracuse, N. Y. Lacing-hook. No. 982,728; Jan. 24; Sp. p. 5586; Gaz. vol. 162; p. 961.
Jordan, Joseph, Moberly, Mo. Steel tie. No. 1,000,093; Aug. 8; Sp. p. 1859; Gaz. vol. 169; p. 336.
Jordan, Joshua E., Waterville, Me. Shoulder-pad. No. 980,421; Jan. 3; Sp. p. 505; Gaz. vol. 162; p. 86.
Jordan, Oswald F., deceased, Chicago, Ill.; S. K. and I. C. Jordan, executors. Railway-spreader. No. 996,256; June 27; Sp. p. 4731; Gaz. vol. 167; p. 842.
Jordan, Sarah K., *et al.*, executors. (See Jordan, Oswald F.)
Jordan, William H., *et al.* (See Jordan, George A., assignor.)
Jordan, William H., Clinton, Mo. Rail-joint. No. 990,657; Apr. 25; Sp. p. 5150; Gaz. vol. 165; p. 893.
Jordan, William H., Brooklyn, N. Y., assignor to Jordan Brothers. Machine for grinding commutators of dynamos and motors. No. 982,367; Jan. 24; Sp. p. 4851; Gaz. vol. 162; p. 840.
Jordan, William H., assignor to Vehicle Storm & Top Co., Knightstown, Ind. Vehicle-door. No. 999,370; Aug. 1; Sp. p. 353; Gaz. vol. 169; p. 62.
Jorden, Denis J., Cleveland, Ohio. Reel for electric cables and the like. No. 990,987; May 2; Sp. p. 338; Gaz. vol. 166; p. 58.
Jorden, J. F., *et al.* (See Erwin, James L., assignor.)
Joret, Léon J. (See Grouvelle, Arquembourg, and Joret.)

Alphabetical list of patentees—Continued.

Jorgensen, Charles, San Francisco, Cal. Non-refillable bottle. No. 1,008,600; Nov. 14; Sp. p. 2209; Gaz. vol. 172; p. 376.
Jörgensen, Christian, Copenhagen, Denmark, assignor to United Shoe Machinery Company, Paterson, N. J. Burnishing and indenting tool. No. 999,228; Aug. 1; Sp. p. 71; Gaz. vol. 169; p. 14.
Jörgensen, Christian, and A. Haahr, Copenhagen, Denmark, assignors, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Edge-setting iron. (Reissue.) No. 13,284; Aug. 15; Sp. p. 3797; Gaz. vol. 169; p. 678.
Jorgensen, Hans J., Chicago, Ill. Shock-absorber. No. 995,874; June 20; Sp. p. 3900; Gaz. vol. 167; p. 677.
Jorgensen, Jorgen, South Omaha, Nebr. Alfalfa-mill. No. 989,525; Apr. 11; Sp. p. 2610; Gaz. vol. 165; p. 440.
Jorgensen, Jorgen C. (See Jensen and Jorgensen.)
Jorgensen, Jorgen M., New York, N. Y. Rail-joint. No. 983,724; Feb. 7; Sp. p. 1003; Gaz. vol. 163; p. 160.
Jorgensen, Lars, Berkeley, assignor of one-half to F. G. Baum, San Francisco, Cal. Dam construction. No. 986,718; Mar. 14; Sp. p. 2036; Gaz. vol. 164; p. 357.
Jorns, Albert C., Dayton, N. Mex. Rail-joint. No. 987,373; Mar. 21; Sp. p. 3410; Gaz. vol. 164; p. 611.
Jory, Thomas, Chicago, Ill. Window-lock. No. 988,786; Apr. 4; Sp. p. 1063; Gaz. vol. 165; p. 170.
Jos. N. Smith and Company. (See Streberger, John F., assignor.)
Joseph Halsted Co. (See Halsted, Joseph, assignor.)
Joseph, Horace. (See Palmer, Joseph, and Sullivan.)
Joseph Reid Gas Engine Company. (See Platt, Wilber O., assignor.)
Joseph T. Ryerson & Son. (See Kraut, Hans, assignor.)
Joseph, Theodore H., and L. Larsen, New York, N. Y., and F. W. Smith, Westfield, N. J. Embroidery-machine. No. 990,198; Apr. 18; Sp. p. 4073; Gaz. vol. 165; p. 700.
Joslen, Josephien E., Los Angeles, Cal. Shield for vehicle-tires. No. 986,007; Mar. 7; Sp. p. 547; Gaz. vol. 164; p. 87.
Joslin, Alexander D., deceased, Chicago, Ill.; A. S. Joslin, administrator. Dating-stamp. No. 986,424; Mar. 7; Sp. p. 1406; Gaz. vol. 164; p. 227.
Joslin, Alexander D., deceased, Chicago, Ill.; A. S. Joslin, administrator. Hand-stamp. No. 1,000,918; Aug. 15; Sp. p. 3658; Gaz. vol. 169; p. 657.
Joslin, Alexander D., deceased; A. S. Joslin, administrator, Chicago, Ill. Dating-stamp. No. 1,011,063; Dec. 5; Sp. p. 1449; Gaz. vol. 173; p. 229.
Joslin, Alexander S., administrator. (See Joslin, Alexander D.)
Joss, Joseph, and J. Kline, Douglas, Ariz. Compound tool. No. 1,004,173; Sept. 26; Sp. p. 4421; Gaz. vol. 170; p. 782.
Jossart, John L., Minocqua, Wis. Spike. (Reissue.) No. 13,204; Feb. 14; Sp. p. 2748; Gaz. vol. 163; p. 459.
Jossart, John L., Minocqua, Wis. Spike. No. 1,001,411; Aug. 22; Sp. p. 4766; Gaz. vol. 169; p. 858.
Josselyn, Henry S. (See Grissel and Josselyn.)
Jost, Jean A., assignor to Societe Jost & Cie., Paris, France. Balancing-machine. No. 1,003,753; Sept. 19; Sp. p. 3419; Gaz. vol. 170; p. 610.
Josz, Ernest, Ganshoren, Brussels, assignor to Société Anonyme Du Joxyl, Koekelberg, near Brussels, Belgium. Printing on wood. (Reissue.) No. 13,214; Feb. 28; Sp. p. 5459; Gaz. vol. 163; p. 957.
Jouffret, Henri V. J., and J. M. Renée, assignors to Society Goudard et Mennesson, Paris, France. Carbureter. No. 1,002,699; Sept. 5; Sp. p. 1140; Gaz. vol. 170; p. 172.
Jouffret, Henri V. J., and J. M. Renée, assignors to Society Goudard et Mennesson, Paris, France. Carbureter. No. 1,002,700; Sept. 5; Sp. p. 1143; Gaz. vol. 170; p. 173.
Jourdan, Thomas W. (See Woodgates and Jourdan.)
Journal Lubricator Company. (See Armstrong, Ernest, assignor.)
Jouy, Jules, Moulin de la Goësse, Épernay, France. Kneading-machine. No. 990,441; Apr. 25; Sp. p. 4665; Gaz. vol. 165; p. 820.
Jowsky, James, Louisville, Ky. Sad-iron. No. 984,004; Feb. 14; Sp. p. 1646; Gaz. vol. 163; p. 284.
Joy, Francis B., Detroit, Mich. Barrel-cover fastener. No. 984,005; Feb. 14; Sp. p. 1647; Gaz. vol. 163; p. 284.
Joy, John F., Hickory, N. C. Hand-tool. No. 1,008,157; Nov. 7; Sp. p. 1081; Gaz. vol. 172; p. 177.
Joy, Joseph, Donora, Pa. Water-trap. No. 986,394; Mar. 7; Sp. p. 1346; Gaz. vol. 164; p. 216.
Joyce, Ernest F. (See Joyce, Frederick R. C. and E. F.)
Joyce, Frederick R. C. and E. F., Farnborough, England. Speed-measure. No. 997,297; July 11; Sp. p. 1482; Gaz. vol. 168; p. 270.
Joyce, Maurice E., assignor of one-half to G. M. Brumbaugh, Washington, D. C. Faucet and valve. No. 988,575; Apr. 4; Sp. p. 611; Gaz. vol. 165; p. 99.
Joyce, Roy E., assignor of one-half to L. I. Brighton, Coffeyville, Kans. Refrigerator. No. 988,269; Mar. 28; Sp. p. 5331; Gaz. vol. 164; p. 943.
Judd, Arthur G., assignor to The Bradley & Hubbard Mfg. Co., Meriden, Conn. Sad-iron. No. 994,467; June 6; Sp. p. 742; Gaz. vol. 167; p. 127.
Judd, Chauncey W., assignor of one-half to H. Wickizer, Los Angeles, Cal. Film-holder. No. 998,182; July 18; Sp. p. 3426; Gaz. vol. 168; p. 618.
Judd, Henry S., assignor to H. S. Judd Manufacturing Company, Chicago, Ill. Washing-machine closure. No. 983,287; Feb. 7; Sp. p. 63; Gaz. vol. 163; p. 12.
Judd, Henry S., and H. Pletsch, assignors to H. S. Judd Manufacturing Company, Chicago, Ill. Washing-machine. No. 983,286; Feb. 7; Sp. p. 61; Gaz. vol. 163; p. 12.
Judd, Joseph, Elizabeth, N. J. Oiling-box for rolling-mills. No. 986,176; Mar. 7; Sp. p. 878; Gaz. vol. 164; p. 142.
Judd Laundry Machine Company. (See Pletsch, Henry, assignor.)
Judell, Julius S., Milwaukee, Wis. Flushing-valve. No. 1,005,117; Oct. 3; Sp. p. 1161; Gaz. vol. 171; p. 196.
Judge, Franklin. (See Quentell and Judge.)
Judge, Matthew. (See Thurber and Judge.)
Judson, Champion H., Dobbs Ferry, N. Y. Lubricating system. No. 1,011,626; Dec. 12; Sp. p. 2804; Gaz. vol. 173; p. 467.
Judson, Fred I., Fullerton, Nebr. Vending-machine. No. 982,431; Jan. 24; Sp. p. 4978; Gaz. vol. 162; p. 861.
Judson L. Thomson Manufacturing Company. (See Leach, John N., assignor.)
Judy, Charles S., Miamisburg, Ohio. Spur attachment for vehicles. No. 996,257; June 27; Sp. p. 4735; Gaz. vol. 167; p. 842.
Judy, Wesley S., Dayton, Ohio. Shuttle. No. 1,004,656; Oct. 3; Sp. p. 226; Gaz. vol. 171; p. 40.
Juengst, Charles A., assignor to Higley Machine Company, Croton Falls, N. Y. Metal-sawing machine. No. 1,012,204; Dec. 19; Sp. p. 4077; Gaz. vol. 173; p. 700.
Juhasz, Frank, assignor of one-half to H. Juhasz, Waukegan, Ill. Sounding toy. No. 993,380; May 30; Sp. p. 5472; Gaz. vol. 166; p. 1007.
Juhasz, Helen. (See Juhasz, Frank, assignor.)
Juillac, Alban F., assignor to V. Popp, Paris, France. Telescopic mast for wireless telegraphy, signals, and similar uses. No. 995,254; June 13; Sp. p. 2502; Gaz. vol. 167; p. 433.
Julian, H. S., *et al.* (See May, Henry P., assignor.)
Juline, John S., Des Moines, Iowa. Toilet-paper holder and cutter. No. 1,005,228; Oct. 10; Sp. p. 1415; Gaz. vol. 171; p. 259.
Julius, Harry P., St. Louis, Mo. Faucet. No. 995,016; June 13; Sp. p. 2026; Gaz. vol. 167; p. 355.
Julius, Paul, and E. Fussenegger, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Pyrazolone dyes and making them. No. 1,010,919; Dec. 5; Sp. p. 1162; Gaz. vol. 173; p. 182.
Julliot, Djalma, La Couture-Boussey, France, assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Clarinet. No. 1,008,272; Nov. 7; Sp. p. 1343; Gaz. vol. 172; p. 220.
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Leakage-reducing device for steam-turbines. No. 980,282; Jan. 3; Sp. p. 196; Gaz. vol. 162; p. 38.
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Baffler. No. 993,831; May 30; Sp. p. 6462; Gaz. vol. 166; p. 1163.
Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Emergency governing mechanism for turbines. No. 993,832; May 30; Sp. p. 6463; Gaz. vol. 166; p. 1163.
Jungren, Gusten, assignor of two-fifths to F. G. Bradbury, St. Paul, Minn. Sound recording and reproducing machine. No. 995,680; June 20; Sp. p. 3458; Gaz. vol. 167; p. 609.
Junk, Beecher W., Toledo, Ohio. Apparatus for vacuum-cleaners. No. 995,969; June 20; Sp. p. 4084; Gaz. vol. 167; p. 710.
Junkers, Hugo, Aix-la-Chapelle, Germany. Compound engine. No. 990,140; Apr. 18; Sp. p. 3939; Gaz. vol. 165; p. 680.
Jurgens, Wilhelm, Redvers, Saskatchewan, Canada. Rail-joint. No. 984,924; Feb. 21; Sp. p. 3596; Gaz. vol. 163; p. 634.
Jurgensen, Jorgen P., Tarkio, Mo. Steam-boiler safety device. No. 983,144; Jan. 31; Sp. p. 6495; Gaz. vol. 162; p. 1129.
Jurs, Henry F., assignor to The Mine & Smelter Supply Company, Denver, Colo. Table adjustment for ore-concentrators. No. 984,567; Feb. 21; Sp. p. 2865; Gaz. vol. 163; p. 510.
Just Mining and Extraction Company, The. (See Porter, James E., assignor.)
Just Process Company. (See Spilsbury, Edmund G., assignor.)
Just, Richard, and H. Wolff, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dye and making same. No. 1,003,268; Sept. 12; Sp. p. 2385; Gaz. vol. 170; p. 410.
Justh, Louis G., Chicago, assignor of one-fourth to Naperville Lounge Company, Naperville, and three-fourths to A. Eger, Chicago, Ill. Sofa-bed. No. 991,069; May 2; Sp. p. 499; Gaz. vol. 166; p. 86.
Justrite Manufacturing Company. (See Becker, Frederick J., assignor.)
Justrite Manufacturing Company. (See Raster, Walther, assignor.)

Alphabetical list of patentees—Continued.

Jutila, Artturi, Kinney, Minn. Vehicle-wheel. No. 1,000,013; Aug. 8; Sp. p. 1647; Gaz. vol. 169; p. 309.
Kaber, Daniel, Cleveland, Ohio. Apparatus for printing signs. No. 987,992; Mar. 28; Sp. p. 4785; Gaz. vol. 164; p. 853.
Kachel, Rudolph T., Cleveland, Ohio. Gas and electric light fixture. No. 1,007,293; Oct. 31; Sp. p. 6035; Gaz. vol. 171; p. 1101.
Kaczynski, Felix, Cohoes, N. Y. Envelop. No. 998,342; July 18; Sp. p. 3815; Gaz. vol. 168; p. 678.
Kade, Otto C., Chicago, Ill. Plate-glass structure. No. 984,006; Feb. 14; Sp. p. 1648; Gaz. vol. 163; p. 285.
Kadel, Clyde C., Rock Falls, Ill. Sectional nut. No. 1,001,042; Aug. 22; Sp. p. 3991; Gaz. vol. 169; p. 734.
Kadeski, Leo J. (See Emrick, Frank C., assignor.)
Kadow, August, assignor to Westlake Machine Company, Toledo, Ohio. Method and apparatus for marvering glass. No. 991,623; May 9; Sp. p. 1713; Gaz. vol. 166; p. 315.
Kadow, Charles T., Detroit, Mich. Collet-chuck. No. 1,007,786; Nov. 7; Sp. p. 311; Gaz. vol. 172; p. 48.
Kaeber, Harry A., Philadelphia, Pa. Necktie-holder. No. 1,010,057; Nov. 28; Sp. p. 5332; Gaz. vol. 172; p. 956.
Kaelin, Frederick T. (See Morse and Kaelin.)
Kaemmerer, Paul, Steglitz, near Berlin, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Device for exposing sensitive layer-carriers. No. 984,007; Feb. 14; Sp. p. 1651; Gaz. vol. 163; p. 285.
Kaemmerer, Paul, Steglitz, near Berlin, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, Germany. Photographic camera. No. 989,784; Apr. 18; Sp. p. 3198; Gaz. vol. 165; p. 561.
Kaesen, Julius H., New York, N. Y. Electric-wire-terminal clip. No. 1,005,846; Oct. 17; Sp. p. 2794; Gaz. vol. 171; p. 509.
Kaesen, Julius H., Boston, Mass., assignor to W. H. Perram, New York, N. Y. Gang-wrench. No. 1,001,530; Aug. 22; Sp. p. 4962; Gaz. vol. 169; p. 896:
Kaesmann-Rivers Developement Company. (See Rivers, Julian H., assignor.)
Kaessmann-Rivers Developement Company. (See Rivers, Julian H., assignor.)
Kaestner & Co. (See Patitz and Sippel, assignors.)
Kaffee-Handels-Aktiengesellschaft, The. (See Meyer, Roselius, and Wimmer, assignors.) (Reissue.)
Kahl, Arthur R., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 1,002,277; Sept. 5; Sp. p. 200; Gaz. vol. 170; p. 27.
Kahl, William F., Detroit, Mich. Medical spoon. No. 1,000,178; Aug. 8; Sp. p. 2051; Gaz. vol. 169; p. 365.
Kahle, Dorsey P., Venus, Pa. Wrench. No. 999,034; July 25; Sp. p. 5354; Gaz. vol. 168; p. 952.
Kahle, James C., Oil City, Pa. Valve. No. 1,010,149; Nov. 28; Sp. p. 5506; Gaz. vol. 172; p. 986.
Kahn, Edward C., Milwaukee, assignor to Burglar Alarm Lock Co., Appleton, Wis. Metallic fence-post. No. 999,229; Aug. 1; Sp. p. 72; Gaz. vol. 169; p. 14.
Kahn, Gustave, Detroit, Mich. Ventilator-frame. No. 993,529; May 30; Sp. p. 5793; Gaz. vol. 166; p. 1058.
Kahn, Jules R., *et al.* (See Brethauer, Charles J., assignor.)
Kahn, Julius. (See Kane, Thomas H., assignor.)
Kahn, Julius, assignor to Trussed Concrete Steel Company, Detroit, Mich. Ribbed expanded metal. No. 987,374; Mar. 21; Sp. p. 3410; Gaz. vol. 164; p. 612.
Kahn, Julius, assignor to Trussed Concrete Steel Company, Detroit, Mich. Shaft-hanger support. No. 992,877; May 23; Sp. p. 4388; Gaz. vol. 166; p. 806.
Kahn, Myrtil, and A. Ossenbeck, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Black trisazo dye. No. 1,000,606; Aug. 15; Sp. p. 3005; Gaz. vol. 169; p. 548.
Kahn, Myrtil, and A. Ossenbeck, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dyeing. No. 1,006,097; Oct. 17; Sp. p. 3343; Gaz. vol. 171; p. 596.
Kaighin, Charles W., Cleveland, Ohio. Shoe-calk. No. 985,908; Mar. 7; Sp. p. 323; Gaz. vol. 164; p. 52.
Kail, Charles E., assignor to Blue Ridge Metal Mfg. Company, Susquehanna, Pa. Candle-lamp. No. 1,007,875; Nov. 7; Sp. p. 526; Gaz. vol. 172; p. 80.
Kail, Jackson L., assignor to The Winslow Bros. Company, Chicago, Ill. Elevator-door mechanism. No. 993,302; May 23; Sp. p. 5278; Gaz. vol. 166; p. 947.
Kainer, Frank, assignor of one-half to J. E. McCord, Sagerton, Tex. Show-case. No. 1,008,472; Nov. 14; Sp. p. 1927; Gaz. vol. 172; p. 329.
Kaiser, Charles, Brooklyn, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil. No. 995,068; June 13; Sp. p. 2148; Gaz. vol. 167; p. 373.
Kaiser, Frank H. (See Clemens, John G., assignor.)
Kaiser, Frank H., Buffalo, N. Y. Trip device for actuating electric railway switching mechanism. No. 998,183; July 18; Sp. p. 3427; Gaz. vol. 168; p. 618.
Kaiser, Frank H., and J. G. Clemens, Buffalo, N. Y. Refillable fuse. No. 1,004,657; Oct. 3; Sp. p. 227; Gaz. vol. 171; p. 40.
Kaiser, George, Detroit, Mich. Whip-holder. No. 986,719; Mar. 14; Sp. p. 2040; Gaz. vol. 164; p. 357.
Kaiser, Heinrich. (See Bregha, Leopold, assignor.)
Kaiser, Joseph M., assignor to Eiseman, Kaiser & Company, Chicago, Ill. Collar-stay-display card. No. 998,249; July 18; Sp. p. 3579; Gaz. vol. 168; p. 642.
Kaiser, Karl, Wilmersdorf, near Berlin, Germany. Oxidizing nitrogen of air by means of electric discharges. No. 984,925; Feb. 21; Sp. p. 3597; Gaz. vol. 163; p. 634.
Kaiser, Karl, Wilmersdorf, near Berlin, Germany. Making nitrogen-oxygen. No. 987,375; Mar. 21; Sp. p. 3411; Gaz. vol. 164; p. 612.
Kaiser, William H., Lyons, N. Y. Hay-fork. No. 985,418; Feb. 28; Sp. p. 4687; Gaz. vol. 163; p. 836.
Kaiser, William O., and O. Klein, Burlington, Iowa. Postcard rack. No. 986,177; Mar. 7; Sp. p. 880; Gaz. vol. 164; p. 142.
Kaiser, William O., and O. Klein, Burlington, Iowa. Postcard rack. No. 997,827; July 11; Sp. p. 2628; Gaz. vol. 168; p. 451.
Kaisling, William. (See Miller and Kaisling.)
Kaisling, William, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Electromagnet. No. 995,255; June 13; Sp. p. 2504; Gaz. vol. 167; p. 433.
Kaisling, William, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Magnet-terminal. No. 1,011,439; Dec. 12; Sp. p. 2329; Gaz. vol. 173; p. 398.
Kalaba, Morris, New Rochelle, N. Y. Aeroplane. No. 1,012,559; Dec. 19; Sp. p. 4785; Gaz. vol. 173; p. 822.
Kalamazoo Loose Leaf Binder Company. (See Manning, Harry D., assignor.)
Kalamazoo Loose Leaf Binder Company. (See Wigginton, George P., assignor.)
Kalamazoo Stove Company. (See Bogenschutz, William C., assignor.)
Kalb, Ludwig, Munich, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Indigo coloring-matter and derivatives thereof and making them. No. 1,012,363; Dec. 19; Sp. p. 4404; Gaz. vol. 173; p. 754.
Kalbaugh, Perry A., San Diego, Cal. Cart. No. 1,005,979; Oct. 17; Sp. p. 3100; Gaz. vol. 171; p. 557.
Kaldenberg, Frederick J., Tarrytown, N. Y. Pistol-stock. No. 1,005,552; Oct. 10; Sp. p. 2140; Gaz. vol. 171; p. 375.
Kalischer, Georg, Frankfort-on-the-Main, Germany, assignor to Cassella Color Company, New York, N. Y. Azo dye. No. 999,230; Aug. 1; Sp. p. 72; Gaz. vol. 169; p. 15.
Kalischer, Georg, Frankfort-on-the-Main, Germany, assignor to Cassella Color Company, New York, N. Y. Vat dye and making same. No. 999,798; Aug. 8; Sp. p. 1201; Gaz. vol. 169; p. 236.
Kallberg, Ernst, Berlin, Germany, assignor to General Electric Company. Turbine-bucket. No. 980,283; Jan. 3; Sp. p. 198; Gaz. vol. 162; p. 38.
Kalle, Julius, Dinslaken, Germany. Continuous rolling-mill. No. 981,281; Jan. 10; Sp. p. 2540; Gaz. vol. 162; p. 414.
Kallenbach, Walter H., and C. C. Bertsch, Boston, Mass., assignors to themselves, trustees. Electric self-winding clock. No. 984,008; Feb. 14; Sp. p. 1655; Gaz. vol. 163; p. 285.
Kallis, Isidore S., New York, and J. Berg, Brooklyn, N. Y. Automobile tire-trunk. No. 990,745; Apr. 25; Sp. p. 5346; Gaz. vol. 165; p. 922.
Kallis, Isidore S., New York, and J. Berg, Brooklyn, N. Y. Automobile tire-trunk. No. 990,746; Apr. 25; Sp. p. 5347; Gaz. vol. 165; p. 922.
Kallmann, Martin, Berlin, Germany. Electric brake for electric motors. No. 1,007,705; Nov. 7; Sp. p. 117; Gaz. vol. 172; p. 19.
Kallstrom, Lars A., Astoria, Oreg. Attachment for cooking vessels. No. 999,567; Aug. 1; Sp. p. 743; Gaz. vol. 169; p. 128.
Kalnin, Paul H. K., Dorchester, Mass. Fish-scaler. No. 1,008,473; Nov. 14; Sp. p. 1929; Gaz. vol. 172; p. 329.
Kalous, Alois, Lewiston, Idaho. Boat attachment. No. 980,964; Jan. 10; Sp. p. 1803; Gaz. vol. 162; p. 300.
Kaltenbach, Robert W., Cleveland, Ohio. Clam-shell bucket. No. 1,010,634; Dec. 5; Sp. p. 524; Gaz. vol. 173; p. 82.
Kaltschmidt, Albert E. (See McGuire, Frank, assignor.)
Kaltschmidt, Albert E., Detroit, Mich. Switch-operating mechanism. No. 998,525; July 18; Sp. p. 4177; Gaz. vol. 168; p. 739.
Kaltwasser, Oskar. (See Jaesschin and Kaltwasser.)
Kalweit, Julius T., and W. H. Gaulke, Milwaukee, Wis., assignors to Independent Electric Manufacturing Company. Speed-regulator for electric motors. No. 1,001,647; Aug. 29; Sp. p. 5214; Gaz. vol. 169; p. 966.
Kalweit, Julius T., and W. H. Gaulke, Milwaukee, Wis., assignors to Independent Electric Manufacturing Company. Rheostat for electric motors. No. 1,006,560; Oct. 24; Sp. p. 4440; Gaz. vol. 171; p. 792.
Kamenetzky, Abraham, New York, N. Y. Hot-water heater. No. 989,264; Apr. 11; Sp. p. 2062; Gaz. vol. 165; p. 351.

Kamenstein, Myer, New York, N. Y. Cash-box. No. 991,513; May 9; Sp. p. 1463; Gaz. vol. 166; p. 274.
Kamenstein, Myer, New York, N. Y. Sheet-metal box. No. 1,000,179; Aug. 8; Sp. p. 2052; Gaz. vol. 169; p. 365.
Kamenstein, Myer, New York, N. Y. Toy canister. No. 1,003,610; Sept. 19; Sp. p. 3110; Gaz. vol. 170; p. 561.
Kamin, Albert, Chicago, Ill. Window-screen construction. No. 1,003,611; Sept. 19; Sp. p. 3111; Gaz. vol. 170; p. 561.
Kaminsky, Bennett, assignor of one-half to J. M. Kaminsky, Indianapolis, Ind. Water-fountain. (Reissue.) No. 13,195; Jan. 10; Sp. p. 3199; Gaz. vol. 162; p. 522.
Kaminsky, Julius M. (See Kaminsky, Bennett, assignor.) (Reissue.)
Kammer, John von der, Washington, D. C. Metabolizer No. 987,805; Mar. 28; Sp. p. 4324; Gaz. vol. 164; p. 787
Kammerer, Jacob, New York, N. Y. Weather-strip. No. 986,828; Mar. 14; Sp. p. 2277; Gaz. vol. 164; p. 394.
Kammerer, Jacob, New York, N. Y. Weather-strip. No. 996,345; June 27; Sp. p. 4956; Gaz. vol. 167; p. 872.
Kammerer, William, Los Angeles, and E. J. Schneider, Hollywood, Cal. Overshot fishing-tool. No. 995,875; June 20; Sp. p. 3901; Gaz. vol. 167; p. 677.
Kampe, John E., Waltham, Mass. Poising-calipers. No. 1,001,278; Aug. 22; Sp. p. 4464; Gaz. vol. 169; p. 811.
Kamperdyk, Pierre J., New York, N. Y. Porous-cup electrode. No. 982,729; Jan. 24; Sp. p. 5588; Gaz. vol. 162; p. 961.
Kamperdyk, Pierre J., New York, N. Y. Storage-battery electrode. No. 983,062; Jan. 31; Sp. p. 6348; Gaz. vol. 162; p. 1103.
Kampfe, August, Cleveland, Ohio. Safety device for elevators. No. 980,284; Jan. 3; Sp. p. 200; Gaz. vol. 162; p. 39.
Kampfe Bros. (See Kampfe, Otto, assignor.)
Kampfe, Otto, New York, N. Y. Stropping device for safety-razor blades. No. 1,006,949; Oct. 24; Sp. p. 5269; Gaz. vol. 171; p. 927.
Kampfe, Otto, New York, N. Y., assignor to Kampfe Bros. Safety-razor blade. No. 985,419; Feb. 28; Sp. p. 4689; Gaz. vol. 163; p. 836.
Kampfe, Otto, New York, N. Y., assignor to Kampfe Bros. Safety-razor. No. 1,008,719; Nov. 14; Sp. p. 2464; Gaz. vol. 172; p. 417.
Kampfe, Richard, New York, N. Y. Safety-razor. No. 998,184; July 18; Sp. p. 3429; Gaz. vol. 168; p. 619.
Kanagy, Howard H., Joliet, Ill. Electric lamplighting device for automobiles. No. 995,681; June 20; Sp. p. 3468; Gaz. vol. 167; p. 610.
Kandera, John, New York, N. Y. Fan. No. 997,828; July 11; Sp. p. 2629; Gaz. vol. 168; p. 452.
Kandlbinder, Emelia F., Shreveport, La. Household utensil. No. 990,561; Apr. 25; Sp. p. 4933; Gaz. vol. 165; p. 861.
Kandlbinder, Emelia F., Shreveport, La. Juice-extractor. No. 992,667; May 16; Sp. p. 3934; Gaz. vol. 166; p. 701.
Kandó, Coloman de, Budapest, Austria-Hungary, assignor to G. Westinghouse, Pittsburg, Pa. Regulating means for electric motors. No. 989,609; Apr. 18; Sp. p. 2832; Gaz. vol. 165; p. 501.
Kandó, Kalman von, Vado Ligure, Italy, assignor to G. Westinghouse. Electric-vehicle-motor suspension. No. 989,610; Apr. 18; Sp. p. 2835; Gaz. vol. 165; p. 501.
Kane, Charles, National Military Home, Tenn. Wrench. No. 995,876; June 30; Sp. p. 3903; Gaz. vol. 167; p. 678.
Kane, Frederick L., Huntington, N. Y. Plaster-support for wall-covering. No. 1,003,754; Sept. 19; Sp. p. 3421; Gaz. vol. 170; p. 610.
Kane, Patrick, and A. B. Griggs, Granby, Quebec, Canada. Manufacture of rubber shoes. No. 1,011,807; Dec. 12; Sp. p. 3163; Gaz. vol. 173; p. 528.
Kane, Thomas H., Youngstown, Ohio, assignor of one-half to J. Kahn, Detroit, Mich. Metal package. No. 994,468; June 6; Sp. p. 743; Gaz. vol. 167; p. 127.
Kane, Thomas H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Lath-attaching device. No. 997,558; July 11; Sp. p. 1985; Gaz. vol. 168; p. 355.
Kane, Thomas H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Window-glass fastener. No. 1,000,413; Aug. 15; Sp. p. 2565; Gaz. vol. 169; p. 478.
Kane, Thomas H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Window-frame. No. 1,001,147; Aug. 22; Sp. p. 4206; Gaz. vol. 169; p. 770.
Kane, Thomas H., Youngstown, Ohio, assignor to Trussed Concrete Steel Company, Detroit, Mich. Expanding-machine. No. 1,004,274; Sept. 26; Sp. p. 4613; Gaz. vol. 170; p. 816.
Kane, William, Philadelphia, Pa. Gas-heater for steam-boilers. No. 1,002,278; Sept. 5; Sp. p. 211; Gaz. vol. 170; p. 27.
Kane, William D. (See Barclay, William P., assignor.)
Kangas, Frank O., Channing, assignor of three-eighths to O. H. Twaddell and three-eighths to S. H. Twaddell, Dalhart, Tex. Pump. No. 992,358; May 16; Sp. p. 3308; Gaz. vol. 166; p. 595.
Kann, Sydney. (See Newrath, Gustave A., assignor.)
Kannenberg, Baldwin H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Solderless can-seam-packing composition. No. 1,006,098; Oct. 17; Sp. p. 3344; Gaz. vol. 171; p. 596.
Kanouse, Clark D., assignor to Starr Piano Company, Richmond, Ind. Flush pedal-door for player-pianos. No. 997,197; July 4; Sp. p. 1257; Gaz. vol. 168; p. 204.
Kanouse, J. George. (See Kanouse, Peter A., assignor.)
Kanouse, Peter A., assignor of one-half to J. G. Kanouse, Los Angeles, Cal. Dental apparatus. No. 980,422; Jan. 3; Sp. p. 506; Gaz. vol. 162; p. 86.
Kansas City Feed Company. (See Rose, Edward F., assignor.)
Kanschine, Serge, assignor of one-half to E. Jellinek-Mercedes, Nice, France. Type-writing machine. No. 1,003,361; Sept. 12; Sp. p. 2569; Gaz. vol. 170; p. 442.
Kantorowicz, Julius, Breslau, Germany. Manufacturing starch soluble in cold water. No. 984,483; Feb. 14; Sp. p. 2637; Gaz. vol. 163; p. 446.
Kanyasi, George, and F. Lakó, Canonsburg, Pa. Curtain-pole. No. 992,508; May 16; Sp. p. 3606; Gaz. vol. 166; p. 648.
Kapelman, Felix G., Seattle, Wash. Bed-frame. No. 1,001,148; Aug. 22; Sp. p. 4208; Gaz. vol. 169; p. 770.
Kapietz, Joseph H. (See McCoy, Walter J., assignor.)
Kappele, Henry, Stamford, Conn. Door-fastener. No. 986,465; Mar. 14; Sp. p. 1500; Gaz. vol. 164; p. 270.
Kappes, William H. (See Verdin and Kappes.)
Kapus, Edward F., St. Joseph, Mo. Acetylene-gas generator. No. 1,006,757; Oct. 24; Sp. p. 4827; Gaz. vol. 171; p. 858.
Karapetoff, Vladimir, Ithaca, N. Y., assignor to Allis-Chalmers Company. Protective device. No. 998,343; July 18; Sp. p. 3816; Gaz. vol. 168; p. 678.
Karass, Charles, Milwaukee, Wis. Lawn-edge trimmer. No. 1,006,758; Oct. 24; Sp. p. 4834; Gaz. vol. 171; p. 859.
Karavodine, Victor de, Billancourt, France, assignor of one-half to S. B. Apostoloff, London, England. Manufacture of electrodes for secondary batteries or storage-cells. No. 1,004,793; Oct. 3; Sp. p. 524; Gaz. vol. 171; p. 87.
Karcher, Otto, Canton, Ohio. Clipper. No. 1,011,808; Dec. 12; Sp. p. 3164; Gaz. vol. 173; p. 529.
Karches, Fred W., assignor to Fidel Ganahl Lumber Company, St. Louis, Mo. Lumber-truck loader. No. 999,310; Aug. 1; Sp. p. 223; Gaz. vol. 169; p. 42.
Kardos, Hugo, deceased, New York, assignor of one-half to A. J. Moisant; A. A. Kremer and L. von Keviczky, New York county, N. Y., administrators. Aerodrome. No. 1,010,374; Nov. 28; Sp. p. 5970; Gaz. vol. 172; p. 1060.
Karel, Frederick, New York, N. Y. Coupling carry-iron. No. 982,005; Jan. 17; Sp. p. 4107; Gaz. vol. 162; p. 685.
Karhan, August, New York, N. Y. Butcher's implement. No. 999,501; Aug. 1; Sp. p. 604; Gaz. vol. 169; p. 105.
Karhu, John, Calumet, Mich. Bread-cutter. No. 993,173; May 23; Sp. p. 5023; Gaz. vol. 166; p. 907.
Karich, Rudolf R., assignor to Boucher Cork and Machine Company, New York, N. Y. Cigarette-tipping machine. No. 991,514; May 9; Sp. p. 1464; Gaz. vol. 166; p. 275.
Karlin, Halfdan B., Stockholm, Sweden, assignor to De Laval Steam Turbine Company, New York, N. Y. System of power generation and regulation. No. 1,010,769; Dec. 5; Sp. p. 835; Gaz. vol. 173; p. 130.
Karlin, Halfdan B., Stockholm, Sweden, assignor to De Laval Steam Turbine Company, New York, N. Y. Packing-ring. No. 1,010,770; Dec. 5; Sp. p. 838; Gaz. vol. 173; p. 130.
Karlson, Henry C. (See Gustavson and Karlson.)
Karlson, Julius H. (See Gran and Karlson.)
Karlson, Lewis A., Minneapolis, Minn. Ventilating-screen. No. 998,690; July 25; Sp. p. 4554; Gaz. vol. 168; p. 829.
Karlstrom, Knut. (See Gabrielson and Karlstrom.)
Karminski, Maxim, and C. Peters, Thompsonville, Conn. Muffler. No. 991,515; May 9; Sp. p. 1469; Gaz. vol. 166; p. 275.
Karn, Harry W., Pittsburg, Pa. Artificial foot. No. 981,090; Jan. 10; Sp. p. 2090; Gaz. vol. 162; p. 345.
Karnasch, Leopold M., San Francisco, Cal. Safety device for hydraulic systems. No. 991,624; May 9; Sp. p. 1713; Gaz. vol. 166; p. 315.
Karns, Alexander M., Everett, Pa. Spring-bearing. No. 1,001,200; Aug. 22; Sp. p. 4314; Gaz. vol. 169; p. 786.
Karp, Samuel, New York, N. Y. Sleeve for garments. No. 1,012,648; Dec. 26; Sp. p. 4990; Gaz. vol. 173; p. 896.
Karpen, Martin S., assignor to S. Karpen & Brothers, Chicago, Ill. Sofa-bed. No. 995,682; June 20; Sp. p.
Karpen, Solomon, Chicago, Ill. Sofa-bed. No. 1,011,440; Dec. 12; Sp. p. 2331; Gaz. vol. 173; p. 399.
Karpen, Solomon, Chicago, Ill. Sofa-bed. No. 1,011,441; Dec. 12; Sp. p. 2334; Gaz. vol. 173; p. 399.
3464; Gaz. vol. 167; p. 670.
Karpen, Solomon, assignor to S. Karpen & Brothers, Chicago, Ill. Sofa-bed. No. 987,376; Mar. 21; Sp. p. 3412; Gaz. vol. 164; p. 612.
Karpen, Solomon, and C. Hultgren, Chicago, Ill.; said Hultgren assignor to said Karpen. Sofa-bed. No. 981,926; Jan. 17; Sp. p. 3916; Gaz. vol. 162; p. 658.

Alphabetical list of patentees—Continued.

Karpen, Solomon, and C. Hultgren, Chicago, Ill.; said Hultgren assignor to said Karpen. Sofa-bed. No. 1,012,861; Dec. 26; Sp. p. 5483; Gaz. vol. 173; p. 970.
Karr, Francis, Holland, Mich. Bed-spring. No. 997,298; July 11; Sp. p. 1483; Gaz. vol. 168; p. 271.
Karr, Francis, Holland, Mich. Spring bed-bottom. No. 1,000,919; Aug. 15; Sp. p. 3661; Gaz. vol. 169; p. 657.
Karr, James P., and J. D. Rauch, Fort Wayne, Ind. Anchoring attachment for floating barges. No. 987,886; Mar. 28; Sp. p. 4515; Gaz. vol. 164; p. 815.
Karral, Charles. (See Carr, Uhel U., assignor.)
Karst, Benjamin, Ness City, Kans. Attachment for harvesters. No. 998,526; July 18; Sp. p. 4178; Gaz. vol. 168; p. 740.
Karvakko, Erick, Redridge, Mich. Lamp-wick-trimming device. No. 1,002,279; Sept. 5; Sp. p. 213; Gaz. vol. 170; p. 28.
Kasan, Louis, Brooklyn, N. Y. Awning. No. 992,668; May 16; Sp. p. 3935; Gaz. vol. 166; p. 701.
Kasarda, John, St. Clair, Pa. Grater for culinary use. No. 986,575; Mar. 14; Sp. p. 1739; Gaz. vol. 164; p. 308.
Kaselowsky, Ferdinand, Berlin, Germany. Rowing apparatus. No. 1,006,561; Oct. 24; Sp. p. 4443; Gaz. vol. 171; p. 793.
Kashner, Charles J., Clarendon, Pa. Rail-joint. No. 1,001,412; Aug. 22; Sp. p. 4767; Gaz. vol. 169; p. 859.
Kaskóto, Stephen, East Chicago, Ind. Derrick. No. 989,611; Apr. 18; Sp. p. 2836; Gaz. vol. 165; p. 501.
Kaslopsky, Henry, Schenectady, N. Y. Sash-lock. No. 992,878; May 23; Sp. p. 4389; Gaz. vol. 166; p. 806.
Kasmaker, Leonard, Leslie, Minn. Attachment for freight-cars. No. 1,010,375; Nov. 28; Sp. p. 5972; Gaz. vol. 172; p. 1061.
Kaspar, Frank. (See Plecher and Kaspar.)
Kasperson, Frank H., Hyde Park, Mass. Tool holding and driving device. No. 986,829; Mar. 14; Sp. p. 2278; Gaz. vol. 164; p. 395.
Kasralowicz, Ely, New York, N. Y. Manufacturing garment-forms. No. 988,108; Mar. 28; Sp. p. 5028; Gaz vol. 164; p. 892.
Kassebeer, William, Lihue, Hawaii. Truck. No. 1,012,649; Dec. 26; Sp. p. 4991; Gaz. vol. 173; p. 896.
Kassebeer, William, Lihue, Hawaii. Apparatus for conveying and loading crops. No. 1,012,650; Dec. 26; Sp. p. 4992; Gaz. vol. 173; p. 896.
Kassner, Felix, Frauenwaldau, Germany. Apparatus for inflating the tires of vehicle-wheels. No. 1,008,646; Nov. 14; Sp. p. 2320; Gaz. vol. 172; p. 392.
Kasson, C. Vallette. (See Ross, Oscar A., assignor.)
Kasson, Henry R., and S. S. Saxton, Chicago, Ill. Liquid bituminous compound and making the same. No. 998,691; July 25; Sp. p. 4555; Gaz. vol. 168; p. 830.
Kästner, Alfred, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Wheel with a special rim for the brake. No. 982,368; Jan. 24; Sp. p. 4854; Gaz. vol. 162; p. 840.
Kastner, Macarius M., and C. Katz, London, England. Pneumatic striker apparatus. No. 1,008,415; Nov. 14; Sp. p. 1776; Gaz. vol. 172; p. 309.
Kasztriner, Árpád, Sátoralja-Ujhely, Austria-Hungary. Couch for use on the water. No. 1,002,701; Sept. 5; Sp. p. 1144; Gaz. vol. 170; p. 173.
Kather, Konrad, Vallejo, assignor of one-half to F. T. Bruggeman, San Francisco, Cal. Sausage-making machine. No. 999,311; Aug. 1; Sp. p. 225; Gaz. vol. 169; p. 42.
Katrina, John, Yukon, Pa. Rail tie and fastener. No. 1,012,205; Dec. 19; Sp. p. 4082; Gaz. vol. 173; p. 700.
Kattenberg, Carsten H., Dixon, Cal. Non-refilling bottle attachment. No. 1,002,585; Sept. 5; Sp. p. 901; Gaz. vol. 170; p. 134.
Kattenhorn, Otto, Battle Mountain, Nev. Airship-propeller. No. 1,001,043; Aug. 22; Sp. p. 3993; Gaz. vol. 169; p. 735.
Katterheinrich, Herman H., Wapakoneta, Ohio. Sewing-box. No. 994,006; May 30; Sp. p. 6802; Gaz. vol. 166; p. 1221.
Katz, Conrad. (See Kastner and Katz.)
Katz, Louis, assignor of one-half to R. Davies, San Francisco, Cal. Electrical water-heater. No. 1,011,809; Dec. 12; Sp. p. 3165; Gaz. vol. 173; p. 529.
Katz, Samuel, New York, N. Y. Buckle. No. 998,097; July 18; Sp. p. 3261; Gaz. vol. 168; p. 588.
Katz, Samuel, and C. C. Barnett, Piqua, Ohio. Garment-carrier. No. 987,074; Mar. 14; Sp. p. 2749; Gaz. vol. 164; p. 475.
Katzenberger, Oscar, Chicago, Ill. Hinge. No. 984,926; Feb. 21; Sp. p. 3598; Gaz. vol. 163; p. 635.
Katzenberger, Oscar, Chicago, Ill. Double-acting spring-hinge. No. 987,467; Mar. 21; Sp. p. 3613; Gaz. vol. 164; p. 643.
Katzenberger, Oscar, Chicago, Ill. Floor-hinge. No. 996,413; June 27; Sp. p. 5124; Gaz. vol. 167; p. 897.
Katzenstein, Sigmund. (See Stolte, Paul, assignor.)
Katzinger, Edward, Chicago, Ill. Means for embossing bread-pans. No. 984,009; Feb. 14; Sp. p. 1658; Gaz. vol. 163; p. 286.
Katzinger, Edward, Chicago, Ill. Forming welding protuberances on sheet metal, &c. No. 1,005,980; Oct. 17; Sp. p. 3102; Gaz. vol. 171; p. 557.
Katzner, Laibesh, Baltimore, Md. Adjustable back attachment for suspenders. No. 994,165; June 6; Sp. p. 127; Gaz. vol. 167; p. 23.
Kauffman, Frank C. (See Liller and Kauffman.)
Kauffman, John E., Kansas City, Kans. Evaporating apparatus. No. 990,878; May 2; Sp. p. 111; Gaz. vol. 166; p. 20.
Kauffman Kase Kompany. (See Klocke, William H., assignor.)
Kauffman, William J., Cleveland, Ohio. Type-writing machine. No. 995,150; June 13; Sp. p. 2298; Gaz. vol. 167; p. 398.
Kauffmann, Lou B., New York, N. Y., assignor to G. F. Sauer, Union, Hudson county, N. J. Butcher's basket. No. 994,098; May 30; Sp. p. 6983; Gaz. vol. 166; p. 1252.
Kaufman, Adolph G., New York, N. Y. Oil-lamp. No. 1,001,859; Aug. 29; Sp. p. 5684; Gaz. vol. 169; p. 1040.
Kaufman, Charles L., Highland Lake, Me. Animal-trap. No. 990,141; Apr. 18; Sp. p. 3941; Gaz. vol. 165; p. 680.
Kaufman, John, Hazleton, Pa. Headlight-operating device. No. 1,009,973; Nov. 28; Sp. p. 5144; Gaz. vol. 172; p. 926.
Kaufmann, Adolph H., Guthrie, Okla. Culvert. No. 988,109; Mar. 28; Sp. p. 5029; Gaz. vol. 164; p. 892.
Kaufmann, Jacob. (See Fehr and Kaufmann.)
Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle-frame. No. 980,285; Jan. 3; Sp. p. 201; Gaz. vol. 162; p. 39.
Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle. No. 996,650; July 4; Sp. p. 114; Gaz. vol. 168; p. 20.
Kaul, Gustav A. E., Hackensack, N. J. Tire-plug. No. 1,000,524; Aug. 15; Sp. p. 2800; Gaz. vol. 169; p. 516.
Kaupke, John E., New York, N. Y. Flying-machine. No. 983,826; Feb. 7; Sp. p. 1226; Gaz. vol. 163; p. 195.
Kauser, James B. (See Medvecky and Kauser.)
Kautzky, Joseph, Fort Dodge, Iowa. Automatic single-trigger mechanism for double-barrel guns. No. 990,562; Apr. 25; Sp. p. 4935; Gaz. vol. 165; p. 861.
Kavakos, John, Brooklyn, N. Y. Amusement device. No. 1,004,174; Sept. 26; Sp. p. 4422; Gaz. vol. 170; p. 782.
Kavanagh, Dan J., and C. P. Queen, New Martinsville, W. Va. Signal-lock. No. 986,296; Mar. 7; Sp. p. 1118; Gaz. vol. 164; p. 180.
Kavle, Oscar C. (See Moyer and Kavle.)
Kavle, Oscar C., assignor to H. A. Moyer, Syracuse, N. Y. Ribbon mechanism for type-writing machines. No. 991,154; May 2; Sp. p. 697; Gaz. vol. 166; p. 118.
Kavle, Oscar C., assignor to H. A. Moyer, Syracuse, N. Y. Type-writing machine. No. 997,559; July 11; Sp. p. 1988; Gaz. vol. 168; p. 355.
Kavle, Oscar C., assignor to H. A. Moyer, Syracuse, N. Y. Type-writing machine. No. 1,008,158; Nov. 7; Sp. p. 1082; Gaz. vol. 172; p. 178.
Kavle, Oscar C., assignor to H. A. Moyer, Syracuse, N. Y. Tabulating mechanism for type-writing machines. No. 1,013,020; Dec. 26; Sp. p. 5851; Gaz. vol. 173; p. 1023.
Kavle, Oscar C., assignor to H. A. Moyer and E. G. Latta, Syracuse, N. Y. Carriage-feed mechanism for type-writing machines. No. 997,137; July 4; Sp. p. 1132; Gaz. vol. 168; p. 184.
Kawasaki, Yasuke, Seattle, Wash. Feeding mechanism for batter or the like. No. 999,799; Aug. 8; Sp. p. 1202; Gaz. vol. 169; p. 236.
Kay, Alfred H., assignor of sixty one-hundredths to J. M. Griffin, Detroit, Mich. Railway joint and chair. No. 1,005,712; Oct. 10; Sp. p. 2506; Gaz. vol. 171; p. 430.
Kay, John, Ramsbottom, assignor of one-half to W. H. Foxwell, Manchester, England. Apparatus for feeding and guiding cloth to stentering and other machines. No. 1,002,156; Aug. 29; Sp. p. 6283; Gaz. vol. 169; p. 1136.
Kay, John, Ramsbottom, assignor of one-half to W. H. Foxwell, Manchester, England. Apparatus for feeding and guiding cloth to stentering and other machines. No. 1,002,204; Aug. 29; Sp. p. 6400; Gaz. vol. 169; p. 1153.
Kay, Joseph W. (See Herpin, Edward P., assignor.)
Kay, William E., Amherst, Ohio. Automatic valve for water-heaters. No. 981,571; Jan. 10; Sp. p. 3143; Gaz. vol. 162; p. 513.
Kaylor, William, Muskogee, Okla. Railway-rail and joint. No. 1,001,201; Aug. 22; Sp. p. 4316; Gaz. vol. 169; p. 786.
Kayser, Charles H., New York, N. Y., assignor to International Electric Protection Company. Pipe and conductor coupling. No. 982,006; Jan. 17; Sp. p. 4108; Gaz. vol. 162; p. 685.
Kayser, Edwin C., assignor to The Procter and Gamble Company, Cincinnati, Ohio. Rendering finely-divided catalytic nickel non-pyrophoric and stable. No. 1,001,279; Aug. 22; Sp. p. 4466; Gaz. vol. 169; p. 811.
Kayser, Edwin C., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Making metallic catalyzers. No. 1,004,034; Sept. 26; Sp. p. 4069; Gaz. vol. 170; p. 733.
Kayser, Edwin C., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Saturating fatty acids or their glycerids with hydrogen. No. 1,004,035; Sept. 26; Sp. p. 4071; Gaz. vol. 170; p. 734.

Alphabetical list of patentees—Continued.

Kayser, Edwin C., assignor to The Proctor and Gamble Company, Cincinnati, Ohio. Saturating fatty acids or their glycerids with hydrogen. No. 1,008,474; Nov. 14; Sp. p. 1930; Gaz. vol. 172; p. 330.
Kazanjian, Gabriel M., assignor to E. L. Messer, Chicago, Ill. Hair-drier. No. 994,259; June 6; Sp. p. 326; Gaz. vol. 167; p. 56.
Kazian, Robert V., New York, N. Y. Cigarette-container. No. 1,007,113; Oct. 31; Sp. p. 5637; Gaz. vol. 171; p. 1036.
Keagy, Martin L., Canton, Ohio. Hoop-making machine. No. 995,604; June 30; Sp. p. 3306; Gaz. vol. 167; p. 583.
Keall, Frank B., and J. Gouldbourn, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Machine for operating on shoes. No. 1,006,484; Oct. 24; Sp. p. 4248; Gaz. vol. 171; p. 763.
Kean, Arthur, assignor to American Textile Appliances Company, Boston, Mass. Warp stop-motion. No. 1,006,386; Oct. 17; Sp. p. 4011; Gaz. vol. 171; p. 699.
Kean, Arthur, assignor to American Textile Appliances Company, Boston, Mass. Warp stop-motion. No. 1,013,021; Dec. 26; Sp. p. 5856; Gaz. vol. 173; p. 1024.
Kearney, Edward J., Wauwatosa, and T. Trecker, assignors to Kearney & Trecker Company, West Allis, Wis. Milling-machine. No. 995,256; June 13; Sp. p. 2506; Gaz. vol. 167; p. 433.
Kearney, Edward J., Wauwatosa, and T. Trecker, assignors to Kearney & Trecker Company, West Allis, Wis. Attachment for milling-machines. No. 995,683; June 20; Sp. p. 3467; Gaz. vol. 167; p. 611.
Kearney & Trecker Company. (See Kearney and Trecker, assignors.)
Kearney, William J., Louisville, Ky. Bait-holder. No. 993,833; May 30; Sp. p. 6465; Gaz. vol. 166; p. 1164.
Kearns, Frank M., Fresno, Cal. Combined belt-pin, garment-retainer, corset-protector, and waist-former. No. 984,927; Feb. 21; Sp. p. 3599; Gaz. vol. 163; p. 635.
Kearns-Gorsuch Bottle Company, The. (See Fogle, Charles E., assignor.)
Kearns, James V., assignor to Kearns Manufacturing Company, Philadelphia, Pa. Dress-form. No. 991,210; May 2; Sp. p. 818; Gaz. vol. 166; p. 139.
Kearns Manufacturing Company. (See Kearns, James V., assignor.)
Kearns Manufacturing Company. (See Rae, John, assignor.)
Kearns, William E., Greeley, Colo. Anchor for check-row corn-planters. No. 1,010,268; Nov. 28; Sp. p. 5731; Gaz. vol. 172; p. 1025.
Kearns, William J., Dunbar township, Fayette county, Pa. Coke-oven. No. 987,993; Mar. 28; Sp. p. 4786; Gaz. vol. 164; p. 853.
Keating, Charles R., Fond du Lac, Wis. Box-cover clamp. No. 998,617; July 25; Sp. p. 4386; Gaz. vol. 168; p. 804.
Keaton, Walter A., and A. Peary, assignors of one-third to A. R. Miller, Houston, Tex. Railway-rail brace. No. 998,011; July 18; Sp. p. 3058; Gaz. vol. 168; p. 557.
Keator, Edward O., Gatun, Panama. Device for car dumping, righting, and braking. No. 982,071; Jan. 17; Sp. p. 4243; Gaz. vol. 162; p. 707.
Keats, Robert F. C., Portsmouth, England. Rotary engine. No. 981,862; Jan. 17; Sp. p. 3756; Gaz. vol. 162; p. 635.
Keck, Albert J., St. Paul, Minn. Memorandum-slip clip. No. 995,605; June 20; Sp. p. 3312; Gaz. vol. 167; p. 583.
Keck, Albert J., St. Paul, Minn. Toy. No. 996,721; July 4; Sp. p. 248; Gaz. vol. 168; p. 43.
Keck, Christian, Crescent Springs, Ky., assignor of one-half to H. H. Hyams, Cincinnati, Ohio. Delivery-goods receiver. No. 983,498; Feb. 7; Sp. p. 516; Gaz. vol. 163; p. 83.
Keck, Robert. (See Adelhelm and Keck.)
Keckley, Harry L., Utica, Ohio. Vehicle-brake. No. 1,009,711; Nov. 21; Sp. p. 4591; Gaz. vol. 172; p. 791.
Keddy, Clifford L., Lynn, Mass. Elastic turnbuckle. No. 1,006,950; Oct. 24; Sp. p. 5271; Gaz. vol. 171; p. 927.
Kee, Charles L., Portsmouth, Va. Lemon-squeezer. No. 1,008,969; Nov. 14; Sp. p. 2990; Gaz. vol. 172; p. 499.
Keefe, Dennis M., assignor of one-half to J. T. Jones. Colorado Springs, Colo. Coaster-brake and reversible counter-shaft. No. 988,941; Apr. 4; Sp. p. 1363; Gaz. vol. 165; p. 218.
Keefer, Samuel H. (See Sears and Keefer.)
Keefer, Samuel H. (See Siebenmorgen and Keefer.)
Keefer, Samuel H., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Motor-controlling switch. No. 983,063; Jan. 31; Sp. p. 6350; Gaz. vol. 162; p. 1103.
Keefer, Samuel H., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Hydraulic feed-clutch mechanism. No. 986,830; Mar. 14; Sp. p. 2281; Gaz. vol. 164; p. 395.
Keefer, Samuel H., Plainfield, assignor to The Niles-Bement-Pond Company, Jersey City, N. J. Controlling system for reversing-motors. No. 996,414; June 27; Sp. p. 5126; Gaz. vol. 167; p. 898.
Keefer, Samuel H., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Motor-controlling apparatus. No. 1,003,269; Sept. 12; Sp. p. 2387; Gaz. vol. 170; p. 410.
Keeler Brass Co. (See Kusterer, Carl C., assignor.)
Keeler Brass Company. (See Walters, Charles W., assignor.)
Keeler, Charles D. (See Washburn and Keeler.)
Keeler, Jay H., *et al.* (See Hutson, William A., assignor.)
Keeley, James W., Philadelphia, assignor to Flannery Bolt Company, Pittsburg, Pa. Flexible stay-bolt. No. 1,000,014; Aug. 8; Sp. p. 1648; Gaz. vol. 169; p. 309.
Keeley, William J. (See Danquard and Keeley.)
Keeling, Newton, assignor of one-fourth to J. H. Robinson, Maumee, Ark. Cotton-picking machine. No. 993,834; May 30; Sp. p. 6466; Gaz. vol. 166; p. 1164.
Keen, George T. (See Hallock and Keen.)
Keen, Thomas W., Swissvale, Pa. Flushing-valve. No. 996,346; June 27; Sp. p. 4959; Gaz. vol. 167; p. 873.
Keen, Thomas W., Swissvale, Pa. Explosive-engine. No. 997,138; July 4; Sp. p. 1141; Gaz. vol. 168; p. 184.
Keena, Edward J., and J. W. Kelly, Jackson, Mich. Wheel-hub. No. 987,724; Mar. 28; Sp. p. 4154; Gaz. vol. 164; p. 760.
Keenan, James F. (See Spies, Peter H. F., assignor.)
Keenan, James F., Philadelphia, Pa. Railway-switch. No. 998,098; July 18; Sp. p. 3262; Gaz. vol. 168; p. 588.
Keenan, James W., Cleveland, Ohio. Cigarette. No. 1,005,981; Oct. 17; Sp. p. 3103; Gaz. vol. 171; p. 558.
Keene, George A., Lynn, Mass. Feathering paddle-wheel. No. 1,010,434; Dec. 5; Sp. p. 61; Gaz. vol. 173; p. 13.
Keene, John G., Eldred, assignor to J. C. Backus, Smethport, Pa. Trunk-lock. No. 1,006,099; Oct. 17; Sp. p. 3344; Gaz. vol. 171; p. 597.
Keene, William J., and G. W. Schuster, assignors to Chicago Spring Butt Company, Chicago, Ill. Spring-hinge. No. 998,692; July 25; Sp. p. 4557; Gaz. vol. 168; p. 830.
Keeney, James W. (See Harp and Keeney.)
Keep, Oliver H., Jr., New York, N. Y. Lock-front turn-over collar. No. 982,827; Jan. 31; Sp. p. 5820; Gaz. vol. 162; p. 1024.
Keep, William J., Detroit, Mich. Metal-founder's flask. No. 986,178; Mar. 7; Sp. p. 881; Gaz. vol. 164; p. 143.
Keeran, Charles R., Bloomington, Ill. Sealing device. No. 996,769; July 4; Sp. p. 340; Gaz. vol. 168; p. 58.
Keeran, Joseph H. (See Mitchell and Keeran.)
Kees, John H. (See Moore and Kees.)
Keeton, Cecil G., Kansas City, Mo. Gas-cut-off apparatus. No. 1,004,794; Oct. 3; Sp. p. 525; Gaz. vol. 171; p. 87.
Keeton, James. (See Rains, Solomon B., assignor.)
Keevil, Alfred L., assignor of one-half to F. Schonk, Chicago, Ill. Kindling device. No. 995,017; June 13; Sp. p. 2028; Gaz. vol. 167; p. 355.
Kefover, George B., Uniontown, Pa. Roofing-bracket. No. 1,006,562; Oct. 24; Sp. p. 4444; Gaz. vol. 171; p. 793.
Kefover, George B., Uniontown, Pa. Knockdown scaffolding. No. 1,011,627; Dec. 12; Sp. p. 2806; Gaz. vol. 173; p. 467.
Kehlet, Laurits, Newell, Iowa. Hasp-fastener. No. 992,565; May 16; Sp. p. 3737; Gaz. vol. 166; p. 668.
Kehoe, Charles S., *et al.*, executors. (See Barratt, William T., assignor.)
Kehoe, Edward J., Tumut, New South Wales, Australia. Pen-handle and attachment therefor for erasing and other purposes. No. 989,505; Apr. 11; Sp. p. 2554; Gaz. vol. 165; p. 433.
Kehoe, William F., Babylon, N. Y. Nut-lock. No. 1,007,706; Nov. 7; Sp. p. 121; Gaz. vol. 172; p. 19.
Kehr, Cyrus, assignor to Sanford-Day Iron Works, Knoxville, Tenn. Wheel. No. 1,009,151; Nov. 21; Sp. p. 3372; Gaz. vol. 172; p. 597.
Kehr, Daniel H., *et al.* (See Kehr, Henry D., Sr., assignor.)
Kehr, Henry D., Sr., Trenton, N. J., assignor of one-third to J. C. Ruopp and one-third to D. H. Kehr. Service-pipe box. No. 1,004,436; Sept. 26; Sp. p. 4952; Gaz. vol. 170; p. 871.
Kehrhahn, Alexander H., Frankfort-on-the-Main, Germany. Leather-working machine. No. 982,007; Jan. 17; Sp. p. 4109; Gaz. vol. 162; p. 685.
Kehring, Robert H. (See Stiner and Kehring.) (Reissue.)
Keighley Company, The. (See Keighley, William B., assignor.)
Keighley, William B., Vineland, N. J. Shoe-trimming machine. No. 984,376; Feb. 14; Sp. p. 2430; Gaz. vol. 163; p. 411.
Keighley, William B., assignor to The Keighley Company, Vineland, N. J. Lasting apparatus. No. 982,140; Jan. 17; Sp. p. 4363; Gaz. vol. 162; p. 729.
Keightley, Annie C., Kensington, and L. Cockerell, West Kensington, London, England. Extension-bed. No. 998,344; July 18; Sp. p. 3822; Gaz. vol. 168; p. 678.
Keilholtz, Pierre O., Baltimore, Md. Waterproofing fabrics. No. 994,931; June 13; Sp. p. 1853; Gaz. vol. 167; p. 326.
Keill, Carl, Munich, Germany. Bullet-proof cuirass. No. 1,003,270; Sept. 12; Sp. p. 2391; Gaz. vol. 170; p. 411.
Keily, James E., Rochester, N. Y. Closure for dispensing vessels. No. 983,725; Feb. 7; Sp. p. 1005; Gaz. vol. 163; p. 160.
Keiper, Frank, Jamestown, assignor, by mesne assignments, to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 995,351; June 13; Sp. p. 2719; Gaz. vol. 167; p. 465.

Alphabetical list of patentees—Continued.

Keiper, Henry B., Lancaster, Pa. Roller-bearing. No. 997,829; July 11; Sp. p. 2631; Gaz. vol. 168; p. 452.
Keiper, Henry B., Lancaster Pa. Ball and roller bearing. No. 997,920; July 11; Sp. p. 2827; Gaz. vol. 168; p. 484.
Keiper, Henry B., Lancaster, Pa. Antifriction-bearing. No. 997,921; July 11; Sp. p. 2830; Gaz. vol. 168; p.484.
Keiper, Howard L., and F. W. Carlton, Easton, Pa. Attachment for vehicle-wheels. No. 992,879; May 23; Sp. p. 4390; Gaz. vol. 166; p. 806.
Keiser, Martin L., assignor to The McLain-Garwood Company, Canton, Ohio. Gas-lamp. No. 1,007,114; Oct. 31; Sp. p. 5639; Gaz. vol. 171; p. 1036.
Keisling, George, Scranton, Pa. Steam-trap. No. 1,000,920; Aug. 15; Sp. p. 3662; Gaz. vol. 169; p. 657.
Keissler, Arthur von, Gross-Ellguth, near Gnadenfeld, Germany. Ship's body. No. 1,010,376; Nov. 28; Sp. p. 5973; Gaz. vol. 172; p. 1061.
Keith, James, London, England. Air-circulator. No. 999,035; July 25; Sp. p. 5355; Gaz. vol. 168; p. 953.
Keith, Simeon C., Jr., Somerville, assignor to H. J. Keith Company, Boston, Mass. Drying-machine. No. 991,516; May 9; Sp. p. 1471; Gaz. vol. 166; p. 275.
Keith, Thomas M. (See Russell and Keith.)
Keith, Walter A., Los Angeles, Cal., assignor to The Chicago Lubricator Company, Chicago, Ill. Lubricating system. No. 1,008,828; Nov. 14; Sp. p. 2699; Gaz. vol. 172; p. 454.
Keizer, Lewis M. (See Coffee, Robert W., assignor.)
Kell, Charles, Gold Hill, Oreg. Fish-dam. No. 993,074; May 23; Sp. p. 4820; Gaz. vol. 166; p. 875.
Kellam, David S., assignor of one-half to C. T. Lemmon, Atlanta, Ga. Shut-off for hose. No. 985,811; Mar. 7; Sp. p. 85; Gaz. vol. 164; p. 18.
Kellander, Harold S., Imogene, Minn. Land-marker. No. 1,010,502; Dec. 5; Sp. p. 232; Gaz. vol. 173; p. 37.
Kellar, George E., assignor to Kellar-Thomason Manufacturing Company, Los Angeles, Cal. Flume-gate. No. 999,457; Aug. 1; Sp. p. 519; Gaz. vol. 169; p. 91.
Kellar, Henry N., Kiefer, Okla. Oil-burner. No. 982,141; Jan. 17; Sp. p. 4366; Gaz. vol. 162; p. 730.
Kellar-Thomason Manufacturing Company. (See Kellar, George E., assignor.)
Kellar-Thomason Manufacturing Company. (See Snow, Frank P., assignor.)
Kellar-Thomason Manufacturing Company. (See Thomason, Elmer O., assignor.)
Keller, Albert T., assignor of one-half to Mesta Machine Company, Pittsburg, Pa. Rolling-mill. No. 991,070; May 2; Sp. p. 501; Gaz. vol. 166; p. 87.
Keller, Carl A. (See Jamieson and Keller.)
Keller, Charles A., Paris, France. Electric furnace. No. 986,179; Mar. 7; Sp. p. 885; Gaz. vol. 164; p. 143.
Keller, Edmund. (See Wike, Berl H., assignor.)
Keller, Frederick H. von, assignor to Cooper Hewitt Electric Company, New York, N. Y. Tilting lamp. No. 990,879; May 2; Sp. p. 115; Gaz. vol. 166; p. 21.
Keller, George S. (See Theisen and Keller.)
Keller, Henry B., Philadelphia, Pa. Chime. No. 1,012,560; Dec. 19; Sp. p. 4786; Gaz. vol. 173; p. 822.
Keller, Huldreich, Berlin, Germany, assignor to General Electric Company. Centrifugal compressor and pump. No. 987,994; Mar. 28; Sp. p. 4788; Gaz. vol. 164; p. 854.
Keller, Huldreich, Berlin, Germany, assignor to General Electric Company. Centrifugal pump. No. 987,995; Mar. 28; Sp. p. 4790; Gaz. vol. 164; p. 854.
Keller, Huldreich, Berlin, Germany, assignor to General Electric Company. Centrifugal blower, pump, compressor, &c. No. 996,859; July 4; Sp. p. 539; Gaz. vol. 168; p. 88.
Keller, Huldreich, Berlin, Germany, assignor to General Electric Company. Centrifugal pumping apparatus. No. 1,008,601; Nov. 14; Sp. p. 2210; Gaz. vol. 172; p. 377.
Keller, James M., Detroit, Mich., assignor to Keller Monoplane Airship Company, Dallas, Tex. Airship. No. 981,655; Jan. 17; Sp. p. 3306; Gaz. vol. 162; p. 561.
Keller, John. (See Lawler, Bryan, and Keller.)
Keller, Joseph M., Philadelphia, Pa. Spring-tire. No. 1,004,658; Oct. 3; Sp. p. 228; Gaz. vol. 171; p. 40.
Keller, Karl, assignor to Firm of A. Saurer, Arbon, Switzerland. Stopping-gear for embroidering-machines. No. 991,155; May 2; Sp. p. 701; Gaz. vol. 166; p. 119.
Keller, Leroy. (See Bergenthal and Keller.)
Keller, Louis E., Oil City, Pa. Switch-throw. No. 981,282; Jan. 10; Sp. p. 2542; Gaz. vol. 162; p. 414.
Keller, Louis E., Oil City, Pa. Tank-car anchor. No. 991,319; May 2; Sp. p. 1061; Gaz. vol. 166; p. 177.
Keller Manufacturing Company. (See Fellows, Walter C., assignor.)
Keller Monoplane Airship Company. (See Keller, James M., assignor.)
Keller, Peter, Chicago, Ill. Gas-burner regulator. No. 997,679; July 11; Sp. p. 2256; Gaz. vol. 168; p. 399.
Keller, Vernet H., Hatfield, Mass., assignor to W. H. Perram, New York, N. Y. Multiple tool. No. 1,001,280; Aug. 22; Sp. p. 4467; Gaz. vol. 169; p. 811.
Keller, Wilhelm, assignor to Hartmann and Braun, Aktiengesellschaft, Frankfort-on-the-Main, Germany. Wire coil. No. 985,420; Feb. 28; Sp. p. 4690; Gaz. vol. 163; p. 836.
Keller, William, Cleveland, Ohio. Plumbing system. No. 991,852; May 9; Sp. p. 2191; Gaz. vol. 166; p. 390.
Keller, William F., Sauk Center, Minn. Draft-equalizer for harrows. No. 987,996; Mar. 28; Sp. p. 4791; Gaz. vol. 164; p. 854.
Keller, William H., Philadelphia, Pa. Vacuum-cleaner. No. 999,371; Aug. 1; Sp. p. 355; Gaz. vol. 169; p. 63.
Keller, William L., Kearney, Nebr. Fence-post mold. No. 987,303; Mar. 21; Sp. p. 3274; Gaz. vol. 164; p. 588.
Kellermann, Jacques, Berlin, Germany. Igniter with spark-emitting mass. No. 983,238; Jan. 31; Sp. p. 6688; Gaz. vol. 162; p. 1161.
Kelley, Augustus N., Detroit, Mich. Core and mold making machine. No. 1,003,755; Sept. 19; Sp. p. 3423; Gaz. vol. 170; p. 610.
Kelley, Charles H., Hartsville, S. C. Plow. No. 1,008,918; Nov. 14; Sp. p. 2869; Gaz. vol. 172; p. 482.
Kelley, Charles W. (See Little and Kelley.)
Kelley, Choice H., Fullerton, La. Log-loading tongs. No. 994,750; June 13; Sp. p. 1434; Gaz. vol. 167; p. 265.
Kelley, Clarence L., St. Paris, Ohio. Adding-machine. No. 997,065; July 4; Sp. p. 1001; Gaz. vol. 168; p. 160.
Kelley, Eben S., Kelley's Cove, Nova Scotia, Canada. Clasp. No. 984,928; Feb. 21; Sp. p. 3600; Gaz. vol. 163; p. 635.
Kelley, Edward F., assignor to The Royal Equipment Company, Bridgeport, Conn. Expanding brake. No. 995,606; June 20; Sp. p. 3313; Gaz. vol. 167; p. 583.
Kelley, Fred E., Norridgewock, Me. Glass-fastener. No. 988,110; Mar. 28; Sp. p. 5030; Gaz. vol. 164; p. 892.
Kelley, Frederick A. W., Watervliet, assignor to Troy Scale Company, Troy, N. Y. Balance-scoop scale. No. 983,554; Feb. 7; Sp. p. 662; Gaz. vol. 163; p. 101.
Kelley, Frederick A. W., Watervliet, assignor to Troy Scale Company, Troy, N. Y. Self-dumping hand-scoop. No. 983,555; Feb. 7; Sp. p. 663; Gaz. vol. 163; p. 101.
Kelley, John M., Buffalo, N. Y. Electric crane and derrick. No. 989,506; Apr. 11; Sp. p. 2555; Gaz. vol. 165; p. 433.
Kelley, John R., Cincinnati, Ohio. Tunnel and plate-holder slide for X-ray pictures. No. 992,205; May 16; Sp. p. 2913; Gaz. vol. 166; p. 542.
Kelley, John W., Chicago, Ill. Composition of matter. No. 1,003,139; Sept. 12; Sp. p. 2101; Gaz. vol. 170; p. 362.
Kelley, Louis B., Colquitt, Ga. Wire-stretcher. No. 1,006,485; Oct. 24; Sp. p. 4252; Gaz. vol. 171; p. 763.
Kelley, Mark L., New York, N. Y. Garment. No. 1,011,810; Dec. 12; Sp. p. 3167; Gaz. vol. 173; p. 529.
Kelley, William, Jr., *et al.* (See Gratigny, Ralph K., assignor.)
Kelley, William F., Seattle, Wash. Wave-motor. No. 993,835; May 30; Sp. p. 6468; Gaz. vol. 166; p. 1164.
Kelley, William S., Mount Holly, assignor to H. B. Smith Machine Company, Smithville, N. J. Sandpapering-machine. No. 995,540; June 20; Sp. p. 3143; Gaz. vol. 167; p. 559.
Kelley, William S., Mount Holly, assignor to H. B. Smith Machine Company, Smithville, N. J. Sandpapering-machine. No. 1,012,651; Dec. 26; Sp. p. 4996; Gaz. vol. 173; p. 897.
Kelley, William V., *et al.* (See Murray, Charles F., assignor.)
Kellner, Gustav A. H., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Relaying projection apparatus. No. 984,929; Feb. 21; Sp. p. 3602; Gaz. vol. 163; p. 635.
Kellner, Gustav A. H., assignor to Baush & Lomb Optical Company, Rochester, N. Y. Sighting-telescope for guns. No. 1,000,607; Aug. 15; Sp. p. 3006; Gaz. vol. 169; p. 548.
Kellogg, Albert A., Clinton, Mo. Cultivator. No. 989,365; Apr. 11; Sp. p. 2271; Gaz. vol. 165; p. 385.
Kellogg, Alfred J., assignor to The Kellogg Compensating Car Truck Company, Newberg, Oreg. Compensating truck for railway-cars. No. 999,192; July 25; Sp. p. 5635; Gaz. vol. 168; p. 1002.
Kellogg Compensating Car Truck Company, The. (See Kellogg, Alfred J., assignor.)
Kellogg, Daniel P., *et al.* (See Neville, Harry, assignor.)
Kellogg, Eddie E. (See Thompson, Charles J., assignor.)
Kellogg, Edwin S. (See Detweiler, Mervyn J., assignor.)
Kellogg, Helena T., Dayton, Ohio. Adjustable kettle-protector. No. 1,009,527; Nov. 21; Sp. p. 4253; Gaz. vol. 172; p. 732.
Kellogg, John H. (See Newton, Myron W., assignor.)
Kellogg, John H., Battle Creek, Mich. Biscuit-machine. No. 992,880; May 23; Sp. p. 4391; Gaz. vol. 166; p. 806.
Kellogg, John H., Battle Creek, Mich. Food compound. No. 1,001,044; Aug. 22; Sp. p. 3995; Gaz. vol. 169; p. 735.
Kellogg, John H., Battle Creek, Mich. Food compound. No. 1,001,045; Aug. 22; Sp. p. 3996; Gaz. vol. 169; p. 735.
Kellogg, John H., Battle Creek, Mich. Food compound. No. 1,001,149; Aug. 22; Sp. p. 4210; Gaz. vol. 169; p. 770.
Kellogg, John H., Battle Creek, Mich. Food product. No. 1,001,150; Aug. 22; Sp. p. 4211; Gaz. vol. 169; p. 770.
Kellogg, John L., Battle Creek, Mich. Machine for manufacturing biscuit from cereal flakes. No. 985,178; Feb. 28; Sp. p. 4156; Gaz. vol. 163; p. 756.

Kellogg Switchboard & Supply Company. (See Dean, William W., assignor.)
Kellogg Switchboard and Supply Company. (See Dunbar, Francis W., assignor.)
Kellogg Switchboard & Supply Company. (See Dyson, Alfred H., assignor.)
Kellogg Switchboard & Supply Company. (See Kaisling, William, assignor.)
Kellogg Switchboard & Supply Company. (See Schoenwolf, Fred, assignor.)
Kellogg Switchboard and Supply Company. (See Simpson, Charles A., assignor.)
Kellogg Switchboard & Supply Company. (See Webster, Harry G., assignor.)
Kellogg Switchboard & Supply Company. (See Weiss, Alfred H., assignor.)
Kellogg Switchboard and Supply Company. (See Winston, Charles S., assignor.)
Kellogg Switchboard & Supply Company. (See Winston and Rupe, assignors.)
Kellogg, Woodward S., and C. E. Scott, Elizabeth, N. J. Fire-extinguisher. No. 998,527; July 18; Sp. p. 4180; Gaz. vol. 168; p. 740.
Kellum, Orlando E., assignor to National Street and Station Indicator Company, Los Angeles, Cal. Trolley-switch for station-indicators and the like. No. 999,312; Aug. 1; Sp. p. 226; Gaz. vol. 169; p. 42.
Kellum, Orlando E., assignor to National Street and Station Indicator Company, Los Angeles, Cal. Exhibit device. No. 999,313; Aug. 1; Sp. p. 228; Gaz. vol. 169; p. 43.
Kellum, Orlando E., assignor to National Street and Station Indicator Company, Los Angeles, Cal. Exhibit device. No. 999,314; Aug. 1; Sp. p. 229; Gaz. vol. 169; p. 43.
Kellum, Orlando E., assignor of one-half to L. P. Sargent, Los Angeles, Cal. Rubber-stamp aliner. No. 1,001,151; Aug. 22; Sp. p. 4212; Gaz. vol. 169; p. 770.
Kellum, Orlando E., and T. P. Wilson, assignors to National Street and Station Indicator Company, Los Angeles, Cal. Actuating mechanism for station-indicators or the like. No. 992,735; May 16; Sp. p. 4069; Gaz. vol. 166; p. 727.
Kelly-Arnold Manufacturing Co., The. (See Kelly and Royer, assignors.)
Kelly, Edward C., Jr., Boston, Mass. Separator-trap. No. 1,005,433; Oct. 10; Sp. p. 1881; Gaz. vol. 171; p. 333.
Kelly, Edward S., St. Louis, Mo. Weather-guard and sash-lock. No. 982,828; Jan. 31; Sp. p. 5821; Gaz. vol. 162; p. 1024.
Kelly, Edwin W. (See Snook and Kelly.)
Kelly, Edwin W., Philadelphia, Pa. Stereoscope-plate changer. No. 998,618; July 25; Sp. p. 4387; Gaz. vol. 168; p. 804.
Kelly, Edwin W., Philadelphia, Pa. Automatic stereoscopic radiography. No. 998,850; July 25; Sp. p. 4924; Gaz. vol. 168; p. 886.
Kelly, Frederick, Toronto, Ontario, Canada. Hot-pressed-nut-making machine. No. 1,002,702; Sept. 5; Sp. p. 1146; Gaz. vol. 170; p. 174.
Kelly, George, Hinsdale, Ill. Saw-filing attachment. No. 1,002,280; Sept. 5; Sp. p. 214; Gaz. vol. 170; p. 28.
Kelly, George B., Jamaica Plain, Mass. Adjusting device for perforated note-sheets. No. 983,288; Feb. 7; Sp. p. 65; Gaz. vol. 163; p. 13.
Kelly, George E., and G. F. Royer, assignors to The Kelly-Arnold Manufacturing Co., Wilkes-Barre, Pa. Train-pipe coupling. No. 983,239; Jan. 31; Sp. p. 6690; Gaz. vol. 162; p. 1162.
Kelly, Hans P. (See Gerde and Kelly.)
Kelly, John, Jamaica Plain, Mass. Excavating-conveyer. No. 983,906; Feb. 14; Sp. p. 1425; Gaz. vol. 163; p. 252.
Kelly, John, Chicago, Ill. Flush-tank. No. 997,560; July 11; Sp. p. 1991; Gaz. vol. 168; p. 356.
Kelly, John A. (See Gately, John P., assignor.)
Kelly, John A., New York, N. Y. Wet-proof shoe. No. 986,576; Mar. 14; Sp. p. 1740; Gaz. vol. 164; p. 308.
Kelly, John B., Chicago, Ill. Carbureter. No. 984,276; Feb. 14; Sp. p. 2236; Gaz. vol. 163; p. 378.
Kelly, John F., Pittsfield, Mass. Playing apparatus for pianos and other musical instruments. No. 984,677; Feb. 21; Sp. p. 3092; Gaz. vol. 163; p. 548.
Kelly, John J., New York, N. Y. Street-car fender. No. 986,990; Mar. 14; Sp. p. 2592; Gaz. vol. 164; p. 448.
Kelly, John J., San Francisco, Cal. Valve-guard. No. 994,409; June 6; Sp. p. 644; Gaz. vol. 167; p. 110.
Kelly, John L. (See Skinner, Frank H., assignor.)
Kelly, John W. (See Keena and Kelly.)
Kelly, Joseph D., receiver. (See Corell, Clifton B., assignor.)
Kelly Manufacturing Company. (See Ellis, Amos, assignor.)
Kelly, Orson N., Salt Lake City, Utah. Railway-tie. No. 995,541; June 20; Sp. p. 3145; Gaz. vol. 167; p. 560.
Kelly, Patrick J. (See Reitmeyer and Kelly.)
Kelly, Philip J., Los Angeles, Cal. Baling-press. No. 990,142; Apr. 18; Sp. p. 3943; Gaz. vol. 165; p. 680.
Kelly, Richard J., Syracuse, N. Y. Wick-raising device for lanterns. No. 996,488; June 27; Sp. p. 5261; Gaz. vol. 167; p. 922.
Kelly, Richard J., Syracuse, N. Y. Lantern-frame. No. 1,007,115; Oct. 31; Sp. p. 5646; Gaz. vol. 171; p. 1037.
Kelly, Robert M., Longview, Tex. Cultivator. No. 983,450; Feb. 7; Sp. p. 413; Gaz. vol. 163; p. 67.
Kelly, Robert W., deceased; S. Kelly, administratrix, Atchison, Kans. Combined pump and aerator. No. 994,522; June 6; Sp. p. 860; Gaz. vol. 167; p. 145.
Kelly, Sarah, administratrix. (See Kelly, Robert W.)
Kelly, Thomas F., assignor to himself and T. F. Sullivan, Pawtucket, R. I. Track-clearer. No. 983,827; Feb. 7; Sp. p. 1232; Gaz. vol. 163; p. 196.
Kelly, Thomas F., assignor to himself and T. F. Sullivan, Pawtucket, R. I. Track-oiler. No. 989,265; Apr. 11; Sp. p. 2063; Gaz. vol. 165; p. 352.
Kelly, Thomas J., Philadelphia, Pa. Yarn-printing machine. No. 998,780; July 25; Sp. p. 4769; Gaz. vol. 168; p. 862.
Kelly, Thomas J., Fond du Lac, Wis. Dam-mold. No. 1,000,816; Aug. 15; Sp. p. 3449; Gaz. vol. 169; p. 621.
Kelly, William, assignor to Everitt, Metzger, Flanders Company, Detroit, Mich. Apparatus for feeding oil. No. 982,730; Jan. 24; Sp. p. 5589; Gaz. vol. 162; p. 962.
Kelly, William, assignor to Everitt, Metzger, Flanders Company, Detroit, Mich. Automobile construction. No. 997,561; July 11; Sp. p. 1992; Gaz. vol. 168; p. 356.
Kelly, William, assignor of one-half to G. J. Wildridge, Caldercruix, Scotland. Apparatus for reeling paper and the like. No. 995,352; June 13; Sp. p. 2725; Gaz. vol. 167; p. 466.
Kelly, William A., New York, N. Y. Momentum and inertia equalizer. No. 992,134; May 9; Sp. p. 2745; Gaz. vol. 166; p. 486.
Kelly, William G., assignor of one-half to W. A. Brown, Los Angeles, Cal. Artificial limb. No. 989,526; Apr. 11; Sp. p. 2612; Gaz. vol. 165; p. 441.
Kelly, William H., Los Angeles, Cal., and S. B. Tainter, Seattle, Wash. Oil-burner. No. 992,924; May 23; Sp. p. 4491; Gaz. vol. 166; p. 823.
Kelly, William M., Herkimer, N. Y. Incubator-alarm. No. 982,503; Jan. 24; Sp. p. 5151; Gaz. vol. 162; p. 888.
Kelmel, Albert E., Providence, R. I., assignor to Crompton & Knowles Loom Works. Doup-heddle for leno-weaving. No. 1,006,563; Oct. 24; Sp. p. 4446; Gaz. vol. 171; p. 793.
Kelp, Martin, Alliance, Ohio. Rail-securing means. No. 1,001,281; Aug. 22; Sp. p. 4468; Gaz. vol. 169; p. 812.
Kelsall, Albert H. (See Chamberlin, John, assignor.)
Kelsey, Edgar A., Mount Vernon, assignor of one-half to W. L. Abate, New York, N. Y. Valve. No. 1,006,852; Oct. 24; Sp. p. 5068; Gaz. vol. 171; p. 893.
Kelsey, Horatio G., New Haven, assignor to The American Buckle Co., West Haven, Conn. Buckle. No. 989,266; Apr. 11; Sp. p. 2064; Gaz. vol. 165; p. 352.
Kelsey, Mary E., Boston, Mass. Skirt. No. 988,350; Apr. 4; Sp. p. 124; Gaz. vol. 165; p. 22.
Kelso, David L. and W. M., Cleveland, Okla. Harness attachment. No. 986,066; Mar. 7; Sp. p. 668; Gaz. vol. 164; p. 107.
Kelso, Joseph, assignor to McConway & Torley Company, Pittsburg, Pa. Knuckle-pin-retaining device. No. 999,036; July 25; Sp. p. 5356; Gaz. vol. 168; p. 953.
Kelso, Joseph, assignor to McConway & Torley Company, Pittsburg, Pa. Car-coupling. No. 1,002,918; Sept. 12; Sp. p. 1664; Gaz. vol. 170; p. 288.
Kelso, Oliver M., New England, N. D. Poison-bottle. No. 1,008,647; Nov. 14; Sp. p. 2321; Gaz. vol. 172; p. 392.
Kelso, Thomas G., New Salem, Ind. Husking-machine. No. 995,257; June 13; Sp. p. 2508; Gaz. vol. 167; p. 434.
Kelso, Thomas G., New Salem, Ind. Corn-harvester. No. 995,258; June 13; Sp. p. 2510; Gaz. vol. 167; p. 434.
Kelso, Wessley M. (See Kelso, David L. and W. M.)
Keltner, William P., Springfield, Mo. Sawing-machine. No. 996,722; July 4; Sp. p. 250; Gaz. vol. 168; p. 43.
Kemble, Duston, Lakewood, Ohio. Steam-turbine. No. 992,566; May 16; Sp. p. 3737; Gaz. vol. 166; p. 669.
Kemish, Albert, Toronto, Ontario, Canada. Protector for hat-pins and the like. No. 982,829; Jan. 31; Sp. p. 5823; Gaz. vol. 162; p. 1024.
Kemmerer, John N., Green township, Clinton county, Pa. Metallic railway-tie. No. 1,006,951; Oct. 24; Sp. p. 5273; Gaz. vol. 171; p. 928.
Kemp, Clarence M., assignor to The C. M. Kemp Manufacturing Company, Baltimore, Md. Carbureter. No. 989,848; Apr. 18; Sp. p. 3344; Gaz. vol. 165; p. 583.
Kemp, Clarence M., assignor to The C. M. Kemp Manufacturing Co., Baltimore, Md. Carbureter. No. 989,980; Apr. 18; Sp. p. 3634; Gaz. vol. 165; p. 628.
Kemp, Clarence M., assignor to The C. M. Kemp Manufacturing Co., Baltimore, Md. Carbureter. No. 989,981; Apr. 18; Sp. p. 3636; Gaz. vol. 165; p. 629.
Kemp, Clarence M., assignor to The C. M. Kemp Manufacturing Co., Baltimore, Md. Carbureter. No 990,143; Apr. 18; Sp. p. 3947; Gaz. vol. 165; p. 681.
Kemp, Elda M., Hibbing, Minn. Incandescent-lamp socket. No. 995,970; June 20; Sp. p. 4084; Gaz. vol. 167; p. 711.
Kemp, James, Delhi, N. Y. Animal-trap. No. 1,011,207; Dec. 12; Sp. p. 1810; Gaz. vol. 173; p. 315.
Kemp, Joseph S., Stratford, Ontario, Canada, assignor to The International Harvester Company, Chicago, Ill. Beater-tooth. No. 988,718; Apr. 4; Sp. p. 929; Gaz. vol. 165; p. 147.

Alphabetical list of patentees—Continued.

Kempe, Wilhelm. (See Aschan and Kempe.)
Kemper, George A., assignor of one-eighth to S. J. W. Erwin, Newberne, W. Va. Fishing-tool for oil or other wells. No. 1,000,817; Aug. 15; Sp. p. 3450; Gaz. vol. 169; p. 621.
Kemper, Virgil A., Kansas City, Mo. Inking attachment for type-writers. No. 1,004,175; Sept. 26; Sp. p. 4423; Gaz. vol. 170; p. 782.
Kempf, Herman H., assignor to S. Johnston, New York, N. Y. Storage battery. No. 1,010,377; Nov. 28; Sp. p. 5975; Gaz. vol. 172; p. 1061.
Kempf, John W., Goehner, Nebr. Core for making culverts. No. 1,000,818; Aug. 15; Sp. p. 3452; Gaz. vol. 169; p. 622.
Kempinski, Hans, Berlin, Germany, assignor to C. W. Saalburg, New York, N. Y. Window-display. No. 995,607; June 20; Sp. p. 3315; Gaz. vol. 167; p. 584.
Kempinski, Hans, Berlin, Germany, assignor to C. W. Saalburg, New York, N. Y. Exhibiting-show for window-decoration and similar purposes. No. 996,929; July 4; Sp. p. 683; Gaz. vol. 168; p. 112.
Kempshall, Eleazer, New York, N. Y. Pen. No. 1,012,862; Dec. 26; Sp. p. 5488; Gaz. vol. 173; p. 971.
Kempster, Daniel E., Cambridge, assignor of one-half to S. R. Upham, Boston, Mass. Machine for feeding and cutting flexible material. No. 999,372; Aug. 1; Sp. p. 358; Gaz. vol. 169; p. 63.
Kempster, Daniel E., Cambridge, assignor of one-half to S. R. Upham, Boston, Mass. Machine for making balls. No. 1,001,531; Aug. 22; Sp. p. 4964; Gaz. vol. 169; p. 897.
Kempter, Philip, assignor to Geuder, Paeschke & Frey Co., Milwaukee, Wis. Cover-handle for cooking utensils. No. 980,872; Jan. 3; Sp. p. 1487; Gaz. vol. 162; p. 238.
Kendall, David, assignor to The Alliance Machine Company, Alliance, Ohio. Ingot-stripping mechanism. No. 1,002,586; Sept. 5; Sp. p. 902; Gaz. vol. 170; p. 134.
Kendall, Edward D., Elizabeth, N. J., assignor of one-third to E. N. Dickerson, Stovall, N. C. Producing alumina. No. 1,013,022; Dec. 26; Sp. p. 5858; Gaz. vol. 173; p. 1024.
Kendall, Ernest L., Ringgold, Tex. Oil-burner. No. 988,111; Mar. 28; Sp. p. 5030; Gaz. vol. 164; p. 892.
Kendall, Ernest L., Ringgold, Tex. Cotton-picker's sack. No. 997,830; July 11; Sp. p. 2633; Gaz. vol. 168; p. 452.
Kendall, James B., Chicago, Ill., and H. M. Ewing, St. Louis, Mo. Engine-starter. No. 994,932; June 13; Sp. p. 1856; Gaz. vol. 167; p. 326.
Kendall, Myron A., Aurora, Ill., assignor to Stephens-Adamson Mnfg. Co. Pulley. No. 1,008,475; Nov. 14; Sp. p. 1932; Gaz. vol. 172; p. 330.
Kendall, Ralph E., Philadelphia, Pa. Pencil-holder. No. 982,504; Jan. 24; Sp. p. 5153; Gaz. vol. 162; p. 888.
Kende, Berthold, New York, N. Y. Station-indicator. No. 983,145; Jan. 31; Sp. p. 6496; Gaz. vol. 162; p. 1129.
Kendig, Roscoe B., Cleveland, Ohio Ash-pan. No. 996,093; June 27; Sp. p. 4348; Gaz. vol. 167; p. 787.
Kendig, Witmer J., Lancaster, Pa. Safety-razor. No. 998,528; July 18; Sp. p. 4182; Gaz. vol. 168; p. 741.
Kendrick and Davis Company. (See Cunningham, Frank R., assignor.)
Kendrick & Davis Company. (See Kendrick, Frank B., assignor.)
Kendrick, Frank B., assignor, by mesne assignments, to Kendrick & Davis Company, Lebanon, N. H. Staking-tool. No. 992,206; May 16; Sp. p. 2915; Gaz. vol. 166; p. 542.
Kendrick, John W., Chicago, Ill. Rail-spacing device. No. 1,001,860; Aug. 29; Sp. p. 5686; Gaz. vol. 169; p. 1041.
Kendrick, John W., Chicago, Ill. Tie-plate. No. 1,011,208; Dec. 12; Sp. p. 1811; Gaz. vol. 173; p. 315.
Kendrick, John W., assignor of one-half to I. Griffen, Franklin, Pa. Arc-lamp. No. 1,007,003; Oct. 24; Sp. p. 5384; Gaz. vol. 171; p. 944.
Kendrick, Solomon, assignor of one-fourth to A. Vogt and one-fourth to A. E. Vogt, Rochester, N. Y. Loom attachment. No. 981,656; Jan. 17; Sp. p. 3308; Gaz. vol. 162; p. 562.
Kendrick, Solomon, assignor of one-fourth to A. Vogt and one-fourth to A. E. Vogt, Rochester, N. Y. Winding-machine. No. 992,669; May 16; Sp. p. 3936; Gaz. vol. 166; p. 702.
Kener, Edward, Jr., Buffalo, N. Y. Screw-nut. No. 990,563; Apr. 25; Sp. p. 4937; Gaz. vol. 165; p. 862.
Kenevel, Jeannot W., Philadelphia, assignor to W. H. Mitchel, Media, Pa., F. W. Tussey, Camden, N. J., and J. R. Bonine, Philadelphia, Pa., trustees. Electrolytic apparatus. No. 1,000,608; Aug. 15; Sp. p. 3010; Gaz. vol. 169; p. 549.
Kennard, George. (See Lang and Kennard.)
Kenne, Anthony. (See Kenne, Carmody, and Swanson.)
Kenne, Casper, Jr., H., and A., T. Carmody, and T. A. Swanson, Whittemore, Iowa. Grain-shocking machine. No. 985,529; Feb. 28; Sp. p. 4949; Gaz. vol. 163; p. 876.
Kenne, Henry. (See Kenne, Carmody, and Swanson.)
Kennedy, Alexander, Grand View, Ind. Detachable brush head and handle. No. 980,533; Jan. 3; Sp. p. 782; Gaz. vol. 162; p. 125.
Kennedy, Bernard J. (See Lovelady and Kennedy.)
Kennedy, Byrim, Zwingle, Iowa. Fence-post. No. 989,849; Apr. 18; Sp. p. 3348; Gaz. vol. 165; p. 584.
Kennedy, Carlton L., South Braintree, assignor to The Holtzer-Cabot Electric Company, Brookline, Mass. Alternating-current motor. No. 1,003,465; Sept. 19; Sp. p. 2786; Gaz. vol. 170; p. 510.
Kennedy, Charles W., and E. W. Carlson, Schenectady, N. Y. Inclinometer. No. 986,008; Mar. 7; Sp. p. 548; Gaz. vol. 164; p. 87.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 989,908; Apr. 18; Sp. p. 3467; Gaz. vol. 165; p. 603.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 1,002,281; Sept. 5; Sp. p. 216; Gaz. vol. 170; p. 28.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Escapement-operating mechanism for linotype-machines, &c. No. 1,010,435; Dec. 5; Sp. p. 63; Gaz. vol. 173; p. 13.
Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 1,011,442; Dec. 12; Sp. p. 2338; Gaz. vol. 173; p. 399.
Kennedy, Francis M., Oklahoma, Okla. Window attraction. No. 983,146; Jan. 31; Sp. p. 6468; Gaz. vol. 162; p. 1130.
Kennedy, Francis M., Oklahoma, Okla. Chuck for paper-rolls of printing-presses. No. 1,001,861; Aug. 29; Sp. p. 5687; Gaz. vol. 169; p. 1041.
Kennedy, Francis M., and E. K. Gaylord, Oklahoma, Okla. Core-stripper. No. 986,831; Mar. 14; Sp. p. 2283; Gaz. vol. 164; p. 395.
Kennedy, Frank B., assignor, by mesne assignments, to The Recording Register & Fare Box Company, New Haven, Conn. Pull-strap. No. 994,751; June 13; Sp. p. 1435; Gaz. vol. 167; p. 265.
Kennedy, Guy L., assignor to National Carbonated Liquid Co., San Francisco, Cal. Individual dispensing-siphon. No. 991,724; May 9; Sp. p. 1943; Gaz. vol. 166; p. 348.
Kennedy, Guy L., assignor to National Carbonated Liquid Co., San Francisco, Cal. Tap for dispensing liquid under pressure. No. 991,725; May 9; Sp. p. 1944; Gaz. vol. 166; p. 349.
Kennedy, Guy L., assignor to National Carbonated Liquid Co., San Francisco, Cal. Apparatus for filling siphon-bottles. No. 994,260; June 6; Sp. p. 328; Gaz. vol. 167; p. 56.
Kennedy, Guy L., assignor to National Carbonated Liquid Co., San Francisco, Cal. Combined union and check valve. No. 996,588; June 27; Sp. p. 5460; Gaz. vol. 167; p. 955.
Kennedy, Guy L., assignor to National Carbonated Liquid Co., San Francisco, Cal. Carbonating apparatus. No. 996,589; June 27; Sp. p. 5463; Gaz. vol. 167; p. 955.
Kennedy, Harvey C., Toronto, Ontario, Canada. Spring-wheel. No. 995,467; June 20; Sp. p. 2989; Gaz. vol. 167; p. 533.
Kennedy, Henry S., *et al.* (See Phelps, Frank, assignor.)
Kennedy, John, assignor of one-third to M. H. Sheriden, New Haven, Conn., and one-third to J. W. Curley, Worcester, Mass. Brush. No. 984,930; Feb. 21; Sp. p. 3606; Gaz. vol. 163; p. 636.
Kennedy, John L., assignor of one-half to B. G. Becker, St. Louis, Mo. Lift-cutting machine. No. 1,003,965; Sept. 19; Sp. p. 3888; Gaz. vol. 170; p. 682.
Kennedy, Joseph, New York, N. Y. Bolt-anchor. No. 981,863; Jan. 17; Sp. p. 3756; Gaz. vol. 162; p. 635.
Kennedy, Joseph, New York, N. Y. Bolt-anchor. No. 983,451; Feb. 7; Sp. p. 418; Gaz. vol. 163; p. 67.
Kennedy, Joseph, assignor to The Clements Co., New York, N. Y. Fastening device. No. 991,447; May 2; Sp. p. 1318; Gaz. vol. 166; p. 220.
Kennedy, Joseph, assignor to The Clements Co., New York, N. Y. Anchor. No. 991,517; May 9; Sp. p. 1474; Gaz. vol. 166; p. 276.
Kennedy, Julian, Pittsburg, Pa. Blast-furnace-charging apparatus. No. 986,009; Mar. 7; Sp. p. 550; Gaz. vol. 164; p. 87.
Kennedy, Julian, Pittsburg, Pa. Blast-furnace-charging apparatus. No. 992,670; May 16; Sp. p. 3938; Gaz. vol. 166; p. 702.
Kennedy, Lorne E., Togo, Saskatchewan, Canada. Awning-support. No. 995,151; June 13; Sp. p. 2300; Gaz. vol. 167; p. 399.
Kennedy, Matthew G., Syracuse, N. Y. Protecting device. No. 999,231; Aug. 1; Sp. p. 74; Gaz. vol. 169; p. 15.
Kennedy-McGregor, John A., Birmingham, assignor of one-half to E. W. Bonson, Knowle, England. Electric-circuit closer. No. 991,853; May 9; Sp. p. 2192; Gaz. vol. 166; p. 391.
Kennedy, Patrick, New York, N. Y., and J. A. Misland, Bayonne, N. J. Coil-retaining means. No. 980,286; Jan. 3; Sp. p. 202; Gaz. vol. 162; p. 39.
Kennedy, Patrick A., Redfern, near Sydney, New South Wales, Australia. Dental articulator. No. 981,430; Jan. 10; Sp. p. 2883; Gaz. vol. 162; p. 465.
Kennedy, Samuel E., San Jacinto, Cal. Scraping and grading machine. No. 1,009,843; Nov. 28; Sp. p. 4892; Gaz. vol. 172; p. 883.

Alphabetical list of patentees—Continued.

Kennedy, Samuel G., East McKeesport, assignor of one-half to W. T. Pierce, Pittsburgh, Pa. Apparatus for manufacturing cementitious cylindrical articles. No. 1,009,528; Nov. 21; Sp. p. 4254; Gaz. vol. 172; p. 733.
Kennedy, Wallace P., Richmond, Va. Weighing attachment for refrigerators. No. 993,836; May 30; Sp. p. 6470; Gaz. vol. 166; p. 1165.
Kennedy, Walter B. (See Dawson, William D., assignor.)
Kennedy, Walter J., Grand Rapids, Mich. Gas-stove. No. 985,038; Feb. 21; Sp. p. 3817; Gaz. vol. 163; p. 674.
Kennedy, Walter S., Duluth, Minn. Motor derrick-sleigh for loading logs. No. 980,791; Jan. 3; Sp. p. 1308; Gaz. vol. 162; p. 210.
Kennedy, William, assignor to F. Ditchfield, trustee, Montreal, Quebec, Canada. Pipe-damper. No. 993,381; May 30; Sp. p. 5472; Gaz. vol. 166; p. 1007.
Kennedy, William H., Naples, Tex. Trap. No. 986,010; Mar. 7; Sp. p. 553; Gaz. vol. 164; p. 88.
Kennedy, William J. (See Courtney, William J., assignor.)
Kennedy, William W., Chicago, Ill. Protective color-printing. No. 1,010,635; Dec. 5; Sp. p. 529; Gaz. vol. 173; p. 83.
Kennel, Thomas J., Middletown, Ohio. Wrench. No. 1,002,157; Aug. 29; Sp. p. 6284; Gaz. vol. 169; p. 1136.
Kenney, Andrew E., North Plainfield, N. J. Washing-machine. No. 1,010,436; Dec. 5; Sp. p. 65; Gaz. vol. 173; p. 13.
Kenney, Augustine, assignor of one-fourth to J. Mesmer, Los Angeles, Cal. Liquid filter and dispenser. No. 986,720; Mar. 14; Sp. p. 2042; Gaz. vol. 164; p. 357.
Kenney, Benjamin D., assignor to The R. Thomas and Sons Company, East Liverpool, Ohio. High-tension insulator. No. 1,010,920; Dec. 5; Sp. p. 1164; Gaz. vol. 173; p. 182.
Kenney, Carlos A., Hammond, Ind. Trench-filling machine. No. 992,359; May 16; Sp. p. 3309; Gaz. vol. 166; p. 596.
Kenney, Charles H., assignor to T. F. Foran, New London, Conn. Wrench. No. 1,000,015; Aug. 8; Sp. p. 1650; Gaz. vol. 169; p. 310.
Kenney, Frank, assignor to P. M. Vucash, A. Donnerberg, F. S. Rieder, A. L. Mackintosh, C. T. Lillard, S. Mothershead, C. A. Bedell, and W. C. Cecil, Portland, Oreg. Vacuum-cleaner. No. 1,002,521; Sept. 5; Sp. p. 761; Gaz. vol. 170; p. 111.
Kenney, Frank A., Denver, Colo. Means for automatically varying the braking power as the load varies in automatic air-brake systems. No. 994,320; June 6; Sp. p. 443; Gaz. vol. 167; p. 76.
Kenney, Irving B., Wadena, Minn. Dental gold-cap-crown remover. No. 989,267; Apr. 11; Sp. p. 2065; Gaz. vol. 165; p. 352.
Kenney, Owen E., assignor to The Yost Electric Manufacturing Company, Toledo, Ohio. Pull-chain guide for sockets. No. 986,991; Mar. 14; Sp. p. 2594; Gaz. vol. 164; p. 448.
Kenney, William F., Providence, R. I. Screw-bolt. No. 987,142; Mar. 21; Sp. p. 2889; Gaz. vol. 164; p. 531.
Kenney, William F., Providence, R. I. Nut-lock. No. 995,468; June 20; Sp. p. 2990; Gaz. vol. 167; p. 534.
Kenney, William J., assignor to Under-Feed Stoker Company of America, Chicago, Ill. Automatic stoker. No. 992,207; May 16; Sp. p. 2916; Gaz. vol. 166; p. 542.
Kennicott, Cass L., Chicago Heights, assignor to The Kennicott Company, Chicago, Ill. Riveting. No. 1,004,275; Sept. 26; Sp. p. 4615; Gaz. vol. 170; p. 816.
Kennicott Company, The. (See Kennicott, Cass L., assignor.)
Kennicott Water Softener Company. (See Dunham, Francis S., assignor.)
Kennington, Robert B., Fitzpatrick, Ga. Spark-arrester. No. 983,726; Feb. 7; Sp. p. 1006; Gaz. vol. 163; p. 160.
Kenny, Paul T., New York, N. Y. Pilot-light system for elevators. No. 991,854; May 9; Sp. p. 2194; Gaz. vol. 166; p. 391.
Kent, Archibald, Hoboken, N. J. Machine for separating sheet metal. No. 995,018; June 13; Sp. p. 2029; Gaz. vol. 167; p. 355.
Kent, Arthur A. (See McQuown, Thomas H., assignor.)
Kent, Arthur A., Philadelphia, Pa. Signaling-horn. No. 1,001,046; Aug. 22; Sp. p. 3997; Gaz. vol. 169; p. 735.
Kent, Everett E. (See England, Arthur E., assignor.)
Kent, Frank J. (See Morrison, Joseph O., assignor.)
Kent, Frank R., Montvale, Va. Hiller. No. 1,011,350; Dec. 12; Sp. p. 2160; Gaz. vol. 173; p. 368.
Kent, Frederick T., Brooklyn, assignor to Empire Duplex Gin Company, New York, N. Y. Process and apparatus for ginning cotton. No. 983,499; Feb. 7; Sp. p. 518; Gaz. vol. 163; p. 83.
Kent, George E., Woodland, Me. Grinder-clamp. No. 986,466; Mar. 14; Sp. p. 1500; Gaz. vol. 164; p. 271.
Kent, Henry A., Bounds Green, assignor to The Silica Syndicate Limited, London, England. Manufacture and production of silica glass. No. 1,003,271; Sept. 12; Sp. p. 2392; Gaz. vol. 170; p. 411.
Kent, Henry W., Milwaukee, Wis., assignor to Kent Ore Reduction Company, Chicago, Ill. Treatment of ores for recovering metal values therefrom. No. 1,009,906; Nov. 28; Sp. p. 5002; Gaz. vol. 172; p. 903.
Kent, John T., Douglas, Ariz. Door-stop. No. 998,693; July 25; Sp. p. 4560; Gaz. vol. 168; p. 830.
Kent, Lena A., and G. H. Tuttle, Atlanta, Ga. Dental-instrument holding and sterilizing bracket-table. No. 991,320; May 2; Sp. p. 1063; Gaz. vol. 166; p. 178.
Kent Ore Reduction Company. (See Kent, Henry W., assignor.)
Kent, Robert S., Brooklyn, N. Y. Apparatus for drying charcoal. No. 984,931; Feb. 21; Sp. p. 3607; Gaz. vol. 163; p. 636.
Kent, Robert S., Brooklyn, N. Y. Kiln for revivifying char. No. 1,004,176; Sept. 26; Sp. p. 4425; Gaz. vol. 170; p. 783.
Kent, Walter G., and J. L. Hodgson, London, England. Differential-pressure gage. No. 1,006,100; Oct. 17; Sp. p. 3347; Gaz. vol. 171; p. 597.
Kent, William J., New York, N. Y. Machine for making toe-calks. No. 1,001,862; Aug. 29; Sp. p. 5689; Gaz. vol. 169; p. 1041.
Kent, William J., New York, N. Y. Toe-calk. No. 1,012,364; Dec. 19; Sp. p. 4409; Gaz. vol. 173; p. 754.
Kenward, Henry, Jonesboro, Ark. Bass-reel. No. 996,258; June 27; Sp. p. 4736; Gaz. vol. 167; p. 842.
Kenworthy, Amos, Hillsdale, Oreg. Furrow-subsoil-breaking attachment for plows. No. 991,855; May 9; Sp. p. 2195; Gaz. vol. 166; p. 392.
Kenworthy, Thomas. (See Shufflebottom and Kenworthy.)
Kenyeres, Steve, Toledo, Ohio. Safety elevator device. No. 1,003,050; Sept. 12; Sp. p. 1914; Gaz. vol. 170; p. 330.
Kenyon, Bertrand P., assignor to Diamond Steel Truck Company, Grand Rapids, Mich. Furniture-caster. No. 980,965; Jan. 10; Sp. p. 1804; Gaz. vol. 162; p. 301.
Kenyon, Roland D., and L. P. Roys, Carthage, N. Y. Painter's guard. No. 1,001,532; Aug. 22; Sp. p. 4972; Gaz. vol. 169; p. 897.
Kenyon, William J. C., Chicago, Ill. Telephone. No. 987,304; Mar. 21; Sp. p. 3277; Gaz. vol. 164; p. 589.
Keogh, Lucius R., assignor of one-half to C. A. Douglas, Ottawa, Ontario, Canada. Making fusible compounds of aluminium and recovering aluminium therefrom. No. 996,094; June 27; Sp. p. 4349; Gaz. vol. 167; p. 788.
Keon, Charles S. (See Grimm, Oscar, assignor.)
Kephart, Ira M., Punxsutawney, Pa. Rotary engine. No. 983,257; Jan. 31; Sp. p. 6738; Gaz. vol. 162; p. 1168.
Kepke, George J., assignor of one-half to F. P. Blakemore, Bellefontaine, Ohio. Rug-display rack. No. 980,792; Jan. 3; Sp. p. 1312; Gaz. vol. 162; p. 211.
Kepner, James C., New Cumberland, Pa. Automatic check-valve for train-pipe couplings. No. 986,992; Mar. 14; Sp. p. 2595; Gaz. vol. 164; p. 449.
Keppeler, Gustav, Darmstadt, and A. Spangenberg, Merzig, Germany; said Spangenberg assignor to said Keppeler. Treating clay, kaolin, and ceramic masses. No. 1,001,413; Aug. 22; Sp. p. 4769; Gaz. vol. 169; p. 859.
Keppie, Randolph C., Providence, R. I. Micrometer-calipers. No. 1,006,660; Oct. 24; Sp. p. 4634; Gaz. vol. 171; p. 826.
Kepple, Nicholas F. (See Shaw and Kepple.)
Keppner, Charles J. (See Gobell, Claud, assignor.)
Ker, Walter A., New York, N. Y., assignor to Oriental Tissue Company, Newark, N. J. Making and sizing an imitation-metal leaf. No. 1,011,443; Dec. 12; Sp. p. 2339; Gaz. vol. 173; p. 400.
Kerbel, Fredrick J., New York, N. Y. Combined telephone and electric lamp. No. 996,770; July 4; Sp. p. 342; Gaz. vol. 168; p. 58.
Kerby, Elmas R. (See Mooney and Kerby.)
Kercher, Arthur J., assignor to Safe, Vault and Protection Company, Los Angeles, Cal. Signal apparatus. No. 1,003,185; Sept. 12; Sp. p. 2205; Gaz. vol. 170; p. 379.
Kerchner, John, assignor of one-half to J. Stugner, Pittsburg, Pa. Hatpin-point protector. No. 999,654; Aug. 1; Sp. p. 901; Gaz. vol. 169; p. 157.
Kerekes, Joseph, Canton, Ohio. Cuspidor. No. 990,747; Apr. 25; Sp. p. 5348; Gaz. vol. 165; p. 923.
Kern, Adolph, *et al.* (See Walker, John G., assignor.)
Kern, Charles, Tell, Wis. Pipe-lifter. No. 996,259; June 27; Sp. p. 4738; Gaz. vol. 167; p. 842.
Kern, Christian E. (See Duryea and Kern.)
Kern, Edward F., Knoxville, Tenn., assignor of one-half to P. S. Brown, New York, N. Y. Electrolyte and method of depositing zinc. No. 999,568; Aug. 1; Sp. p. 744; Gaz. vol. 169; p. 128.
Kern, Edward F., assignor of one-half to P. S. Brown, New York, N. Y. Electrolyte for depositing zinc. No. 999,655; Aug. 1; Sp. p. 902; Gaz. vol. 169; p. 157.
Kern, Frieda, *et al.* (See Reidner, Howard W., assignor.)
Kern, George F., assignor of one-half to F. C. Pfeil, Buffalo, N. Y. Shock-absorber. No. 1,006,225; Oct. 17; Sp. p. 3656; Gaz. vol. 171; p. 643.
Kern, Harry W. (See Buckwalter and Kern.)
Kern, Isaiah, Ryckmans Corner, Ontario, Canada. Hay-rack. No. 987,377; Mar. 21; Sp. p. 3416; Gaz. vol. 164; p. 612.
Kern, John J., Reading, Pa. Switch-operating device. No. 1,006,226; Oct. 17; Sp. p. 3658; Gaz. vol. 171; p. 644.
Kern, John J., Reading, Pa. Railway-switch. No. 1,006,227; Oct. 17; Sp. p. 3659; Gaz. vol. 171; p. 644.

Alphabetical list of patentees—Continued.

Kern, Michael, Chicago, Ill. Trolley-pole-controlling mechanism. No. 992,360; May 16; Sp. p. 3311; Gaz. vol. 166; p. 596.
Kern, William H., Jersey City, N. J. Removable horseshoe-calk. No. 988,351; Apr. 4; Sp. p. 125; Gaz. vol. 165; p. 23.
Kerngood, Herman, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Sliding-tongue buckle. No. 987,576; Mar. 21; Sp. p. 3817; Gaz. vol. 164; p. 680.
Kerngood, Herman, assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Screw-stud for snap-fasteners. No. 991,156; May 2; Sp. p. 704; Gaz. vol. 166; p. 119.
Kerogas Company. (See Wiggins, Edward J., assignor.) (Reissue.)
Kerr, Clifford, Aurora, Ind. Wrench. No. 993,837; May 30; Sp. p. 6472; Gaz. vol. 166; p. 1165.
Kerr, Ernest N., Rock Island, Ill. Chain propeller. No. 988,112; Mar. 28; Sp. p. 5032; Gaz. vol. 164; p. 892.
Kerr, Homer E., Springville, Pa. Pail. No. 991,321; May 2; Sp. p. 1065; Gaz. vol. 166; p. 178.
Kerr, James D., Greens Fork, Ind. Inhaler. No. 988,352; Apr. 4; Sp. p. 126; Gaz. vol. 165; p. 23.
Kerr, James E., Philadelphia, Pa. Woven fabric. No. 1,000,016; Aug. 8; Sp. p. 1651; Gaz. vol. 169; p. 310.
Kerr, John W., Minneapolis, Minn. Lace or ribbon holder. No. 980,534; Jan. 3; Sp. p. 783; Gaz. vol. 162; p. 125.
Kerr, Mathew M., assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Adjustable work-holder. No. 987,237; Mar. 21; Sp. p. 3123; Gaz. vol. 164; p. 565.
Kerr, Thomas H., Pittsburg, Pa. Well-drilling machine. No. 983,064; Jan. 31; Sp. p. 6353; Gaz. vol. 162; p. 1104.
Kerr, William J., *et al.* (See Dunavon, James H., assignor.)
Kerrinnes, Heinrich, Dom. Ramberg, near Gross Sobrost, Germany. Machine for tilling the ground. No. 987,577; Mar. 21; Sp. p. 3819; Gaz. vol. 164; p. 680.
Kersey, Edward, Chicago, Ill. Flushing-tank. No. 1,004,576; Oct. 3; Sp. p. 58; Gaz. vol. 171; p. 12.
Kershaw, Thomas H. (See Fry, Darby, and Kershaw.)
Kerst, John M., Glenside, assignor to Woodward & Wanger, Philadelphia, Pa. Compression stop and waste valve. No. 980,793; Jan. 3; Sp. p. 1314; Gaz. vol. 162; p. 211.
Kersten, Dena O. C., Detroit, Mich. Cotter-pin tool. No. 987,238; Mar. 21; Sp. p. 3125; Gaz. vol. 164; p. 566.
Kersteter, James F., assignor of one-half to W. H. Mertz and one-fourth to W. E. Bloom, Sunbury, Pa. Rail-chair. No. 987,578; Mar. 21; Sp. p. 3821; Gaz. vol. 164; p. 681.
Kersteter, Joel C., assignor to Electric Heat Regulator Company, Minneapolis, Minn. Clock attachment for electric thermostats. No. 1,012,365; Dec. 19; Sp. p. 4411; Gaz. vol. 173; p. 755.
Kerwin, John, Detroit, Mich. Surface-grinder. No. 1,004,276; Sept. 26; Sp. p. 4616; Gaz. vol. 170; p. 816.
Kerwin, John, Detroit, Mich., assignor of one-half to R. E. Belknap, Evanston, Ill. Portable crossover. No. 1,000,270; Aug. 8; Sp. p. 2229; Gaz. vol. 169; p. 396.
Kessler, Calvin, Elk, Wash. Saw-guide. No. 993,838; May 30; Sp. p. 6474; Gaz. vol. 166; p. 1166.
Kessler, Emil, New York, N. Y. Safety-razor. No. 985,759; Feb. 28; Sp. p. 5447; Gaz. vol. 163; p. 955.
Kessler, George M., Gregson, Mont. Suction-hose coupling. No. 1,009,907; Nov. 28; Sp. p. 5006; Gaz. vol. 172; p. 904.
Kessler, John J., assignor to A. G. Meier, St. Louis, Mo. Composite dental foil and making same. No. 1,008,970; Nov. 14; Sp. p. 2992; Gaz. vol. 172; p. 499.
Kessler, Martin C., assignor to The Kessler Motor Company, Denver, Colo. Gas-engine. No. 1,012,652; Dec. 26; Sp. p. 4998; Gaz. vol. 173; p. 897.
Kessler, Mervin, assignor of one-third to C. S. Dunn and one-third to R. Adams, Peru, Ind. Double-shoe expansion-clutch. No. 998,694; July 25; Sp. p. 4561; Gaz. vol. 168; p. 831.
Kessler Motor Company, The. (See Kessler, Martin C., assignor.)
Kessler, Paul. (See Clark, Philo I., assignor.)
Kester, Clarence R., Laton, Cal. Bed for invalids. No. 992,671; May 16; Sp. p. 3942; Gaz. vol. 166; p. 703.
Kester, George. (See Davison, Kester, and Rowman.)
Kestler, Nicholas A., *et al.* (See Braddock, Isaac A., assignor.)
Kestler, Roy C., Orleans, Nebr. Dental appliance. No. 999,373; Aug. 1; Sp. p. 363; Gaz. vol. 169; p. 64.
Kestner, Charles D., New York, N. Y., assignor to The Meyrowitz Manufacturing Co. Rheostat. No. 981,572; Jan. 10; Sp. p. 3144; Gaz. vol. 162; p. 513.
Kestner Evaporator Company. (See Kestner, Paul, assignor.)
Kestner, Paul, Lille, France. Crystallizing sugar. No. 989,366; Apr. 11; Sp. p. 2273; Gaz. vol. 165; p. 386.
Kestner, Paul, Lille, France. Evaporator. No. 989,982; Apr. 18; Sp. p. 3639; Gaz. vol. 165; p. 629.
Kestner, Paul, Lille, France. Washing gases for rapidly freeing them from dust or smoke held in suspension therein. No. 991,157; May 2; Sp. p. 705; Gaz. vol. 166; p. 119.
Kestner, Paul, Lille, France. Apparatus for cleaning air or gas filters. No. 996,860; July 4; Sp. p. 540; Gaz. vol. 168; p. 89.
Kestner, Paul, Lille, France. Evaporating liquids. No. 997,502; July 11; Sp. p. 1866; Gaz. vol. 168; p. 337.
Kestner, Paul, Lille, France. Evaporating liquids. No. 997,503; July 11; Sp. p. 1869; Gaz. vol. 168; p. 337.
Kestner, Paul, Lille, France. Preparing desiccated vegetable extracts. No. 1,005,554; Oct. 10; Sp. p. 2145; Gaz. vol. 171; p. 376.
Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Evaporating apparatus. No. 1,003,912; Sept. 19; Sp. p. 3719; Gaz. vol. 170; p. 663.
Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Evaporating apparatus. No. 1,005,553; Oct. 10; Sp. p. 2141; Gaz. vol. 171; p. 375.
Kestner, Paul, Lille, France, assignor to Kestner Evaporator Company, Philadelphia, Pa. Apparatus for concentrating liquids. No. 1,013,091; Dec. 26; Sp. p. 5994; Gaz. vol. 173; p. 1048.
Ketcham, Albert H., Denver, Colo. Mouth film-holder for Roentgen-ray skiagraphs. No. 1,012,561; Dec. 19; Sp. p. 4788; Gaz. vol. 173; p. 822.
Ketcham, Cassius M., Carthage, Mo. Centrifugal cream-separator. No. 998,529; July 18; Sp. p. 4183; Gaz. vol. 168; p. 741.
Ketcham, George G., Anamosa, Iowa. Wagon hay-rack. No. 992,778; May 23; Sp. p. 4161; Gaz. vol. 166; p. 769.
Ketcheson, John H., assignor to United States Fibre Stopper Company, St. Louis, Mo. Treating fibrous or cellulose materials. No. 987,629; Mar. 21; Sp. p. 3916; Gaz. vol. 164; p. 697.
Ketchum, James T., Fond du Lac, Wis. Water-boiler. No 992,779; May 23; Sp. p. 4164; Gaz. vol. 166; p. 770.
Ketelsen, Andrew J., Chicago, Ill. Garment hanger and stretcher. No. 998,530; July 18; Sp. p. 4187; Gaz. vol. 168; p. 741.
Ketelsen, Andrew J., Chicago, Ill. Faucet. No. 998,531; July 18; Sp. p. 4188; Gaz. vol. 168; p. 742.
Kett, Richard, assignor of one-third to A. H. Flucken and one-third to W. G. Watts, Denver, Colo. Track-sander for locomotives. No. 1,004,177; Sept. 26; Sp. p. 4428; Gaz. vol. 170; p. 783.
Kettelforder, Edward H., Richmond, Ind. Animal-trap. No. 1,003,466; Sept. 19; Sp. p. 2789; Gaz. vol. 170; p. 510.
Ketterer, Alvin N., assignor of one-half to W. L. Goetz, St. Joseph, Mo. Jetting attachment for bottle-fillers. No. 981,768; Jan. 17; Sp. p. 3547; Gaz. vol. 162; p. 602.
Kettering, Charles F., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,004,881; Oct. 3; Sp. p. 740; Gaz. vol. 171; p. 119.
Kettering, Charles F., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,005,555; Oct. 10; Sp. p. 2149; Gaz. vol. 171; p. 376.
Kettering, Charles F., and W. A. Chryst, assignors to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,011,966; Dec. 19; Sp. p. 3523; Gaz. vol. 173; p. 617.
Ketterman, John W., Muncie, Ind. Transmission device. No. 995,152; June 13; Sp. p. 2302; Gaz. vol. 167; p. 399.
Kettmann, Franz, Salem, Ohio. Cigarette-machine. No. 1,008,159; Nov. 7; Sp. p. 1088; Gaz. vol. 172; p. 178.
Ketzner, John. (See Marx and Ketzner.)
Keuffel & Esser Company, The. (See Keuffel, Willie L. E., assignor.)
Keuffel & Esser Company, The. (See Kollmorgen, Frederick L. G., assignor.)
Keuffel & Esser Company, The. (See Lange, George, assignor.)
Keuffel & Esser Company, The. (See Schermerhorn, Leon, assignor.)
Keuffel, Willie L. E., assignor to The Keuffel & Esser Company, Hoboken, N. J. Magnifier for slide-rules. No. 996,039; June 20; Sp. p. 4226; Gaz. vol. 167; p. 734.
Keviczky, Ladislaus von, *et al.*, administrators. (See Kardos, Hugo.)
Key, Isaac, Fowlerton, Ind. Pan-lifter. No. 993,253; May 23; Sp. p. 5183; Gaz. vol. 166; p. 931.
Key, James F., Washington, D. C. Telltale for electric lights. No. 996,489; June 27; Sp. p. 5264; Gaz. vol. 167; p. 923.
Key, William R., Moultrie, Ga. Cotton-chopper. No. 988,353; Apr. 4; Sp. p. 127; Gaz. vol. 165; p. 23.
Keyer, Louis W., Jr., Dayton, Ohio. Paper box. No. 986,721; Mar. 14; Sp. p. 2043; Gaz. vol. 164; p. 358.
Keyes, Eugene L., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,004,659; Oct. 3; Sp. p. 229; Gaz. vol. 171; p. 40.
Keyes, Frank E., New York, N. Y. Machine for the manufacture of paper sheets. No. 986,993; Mar. 14; Sp. p. 2597; Gaz. vol. 164; p. 449.
Keyes, Frank E., New York, N. Y. Machine for making paper tubes. No. 986,994; Mar. 14; Sp. p. 2601; Gaz. vol. 164; p. 449.
Keyes, Frank E., New York, N. Y. Machine for making kegs or barrels. No. 986,995; Mar. 14; Sp. p. 2602; Gaz. vol. 164; p. 450.

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Keyes, Frank E., New York, N. Y. Machine for making articles from pulp. No. 986,996; Mar. 14; Sp. p. 2604; Gaz. vol. 164; p. 450.
Keyes, Frank E., New York, N. Y. Machine for felting pulp. No. 986,997; Mar. 14; Sp. p. 2606; Gaz. vol. 164; p. 450.
Keyes, Frank E., New York, N. Y. Water-strainer. No. 993,839; May 30; Sp. p. 6474; Gaz. vol. 166; p. 1166.
Keyes, Frank E., New York, N. Y. Machine for cutting fiber. No. 995,971; June 20; Sp. p. 4085; Gaz. vol. 167; p. 711.
Keyes, Frank E., New York, N. Y. Strainer. No. 1,007,449; Oct. 31; Sp. p. 6367; Gaz. vol. 171; p. 1156.
Keyes, James A., and T. L. Camp, New York, N. Y. Paper-feeder. No. 998,012; July 18; Sp. p. 3059; Gaz. vol. 168; p. 557.
Keyes, Joseph A., Paterson, N. J., and I. R. Miller, St. Paul, Minn. Corner-ladder for railway-cars. No. 988,719; Apr. 4; Sp. p. 931; Gaz. vol. 165; p. 148.
Keyes, Walter F., La Grange, Ill. Ice-rest and water-cooler. No. 995,791; June 20; Sp. p. 3721; Gaz. vol. 167; p. 648.
Keyes, William W. W., Alexandria, Ind., assignor of one-half to C. Dorn, Arnold, Pa. Glass-melting means. No. 1,000,921; Aug. 15; Sp. p. 3665; Gaz. vol. 169; p. 658.
Keystone Driller Company. (See Downie, Robert M., assignor.)
Keystone Fire Proofing Company. (See Connell, William S., assignor.)
Keystone Steel and Wire Company. (See Sommer, Peter W., J. W., and W., assignors.)
Keystone Trading Company. (See Darling, James D., assignor.)
Keystone Type Foundry. (See Paton, Robert, assignor.)
Keystone Watch Case Company, The. (See Ebelhare, William H., assignor.)
Keystone Watch Case Company, The. (See Mehl, Walter B., assignor.)
Keystone Watch Case Company, The. (See Mink, Fritz, assignor.)
Keyworth, William C., Paterson, N. J. Thread-finishing machine. No. 989,983; Apr. 18; Sp. p. 3641; Gaz. vol. 165; p. 630.
Keyworth, William C., Paterson, N. J. Thread-finishing machine. No. 990,564; Apr. 25; Sp. p. 4938; Gaz. vol. 165; p. 862.
Keyworth, William C., Paterson, N. J. Thread-finishing machine. No. 991,856; May 9; Sp. p. 2197; Gaz. vol. 166; p. 392.
Kiam, Edward. (See Boucher, Horace E., assignor.)
Kiam, Edward. (See Mathes, John W., assignor.)
Kibby, Ora B., assignor of one-half to E. J. Moch, Cincinnati, Ohio. Antiskidding device for vehicle-wheels. No. 987,806; Mar. 28; Sp. p. 4327; Gaz. vol. 164; p. 788.
Kibby, William J., New York, N. Y., assignor, by mesne assignments, to Spacesaving Appliance Company. Wash-tub attachment. No. 990,442; Apr. 25; Sp. p. 4667; Gaz. vol. 165; p. 820.
Kibele, Hector, assignor to The Diller Manufacturing Company, Bluffton, Ohio. Mop-holder. No. 998,532; July 18; Sp. p. 4190; Gaz. vol. 168; p. 742.
Kiblbeck, Max, Freimann, Germany. Shaft-governor. No. 1,000,922; Aug. 15; Sp. p. 3667; Gaz. vol. 169; p. 658.
Kich, Julian, Lyndora, Pa. Metallic tie and rail-fastener. No. 997,139; July 4; Sp. p. 1143; Gaz. vol. 168; p. 185.
Kick, John A. (See Cummings and Kick.)
Kidd, George W., Minneapolis, Minn. Drinking-cup. No. 993,174; May 23; Sp. p. 5026; Gaz. vol. 166; p. 907.
Kidd, Thomas D. (See Courtney, Martin, assignor.)
Kidd, Walter H. (See Shinn and Kidd.)
Kidder, Harry G., Holdrege, Nebr. Grain-shocker. No. 996,930; July 4; Sp. p. 684; Gaz. vol. 168; p. 113.
Kidder, Wellington P., Boston, Mass. Type-writer. No. 997,562; July 11; Sp. p. 1994; Gaz. vol. 168; p. 356.
Kidder, Wellington P., Boston, Mass., assignor to Wellington Typewriter Company, New York, N. Y. Type-writer. No. 988,576; Apr. 4; Sp. p. 613; Gaz. vol. 165; p. 99.
Kidder, Wellington P., Boston, Mass., and C. W. Sponsel, Hartford, assignors, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Stop for universal bars of type-writing machines. No. 981,657; Jan. 17; Sp. p. 3310; Gaz. vol. 162; p. 562.
Kidwell, John H., Pittsburgh, Pa. Folding crate. No. 1,012,366; Dec. 19; Sp. p. 4414; Gaz. vol. 173; p. 755.
Kiefer, Charles J., Tiffin, Ohio. Safety-razor. No. 1,008,648; Nov. 14; Sp. p. 2323; Gaz. vol. 172; p. 392.
Kiefer, Herman E., Easton, Pa. Coal-feeding apparatus for rotary cement-kilns, &c. No. 993,604; May 30; Sp. p. 5953; Gaz. vol. 166; p. 1084.
Kiefer, Karl, Cincinnati, Ohio. Filtering material. No. 981,658; Jan. 17; Sp. p. 3313; Gaz. vol. 162; p. 563.
Kiefer, Karl, Cincinnati, Ohio. Filter. No. 993,780; May 30; Sp. p. 6352; Gaz. vol. 166; p. 1145.
Kiefer, Karl, Cincinnati, Ohio. Centrifugal apparatus for creating pressure. No. 1,001,648; Aug. 29; Sp. p. 5216; Gaz. vol. 169; p. 967.
Kiefer, Karl, Cincinnati, Ohio. Filter element. No. 1,002,587; Sept. 5; Sp. p. 905; Gaz. vol. 170; p. 134.
Kieffer, John H., Allentown, Pa. Horseshoe. No. 991,211; May 2; Sp. p. 823; Gaz. vol. 166; p. 139.
Kieffer, Joseph N., Sèvres, France. Internal-combustion engine. No. 989,984; Apr. 18; Sp. p. 3642; Gaz. vol. 165; p. 630.
Kieffer, Louis J., Bowling Green, Ky. Safety-switch for railways. No. 990,273; Apr. 25; Sp. p. 4252; Gaz. vol. 165; p. 759.
Kieffer, Louis J., Bowling Green, Ky. Double-derail appliance. No. 1,000,680; Aug. 15; Sp. p. 3162; Gaz. vol. 169; p. 573.
Kiehl, Hugo, Chicago, Ill. Feeding device. No. 998,013; July 18; Sp. p. 3062; Gaz. vol. 168; p. 558.
Kiehlbauch, Henry, Tripp, S. D. Headlight-operating mechanism. No. 1,008,649; Nov. 14; Sp. p. 2326; Gaz. vol. 172; p. 393.
Kielar, Stanislaw, *et al.* (See Willma, Theodor, assignor.)
Kienast, Arnold, Leipzig, Germany. Turbine-blade. No. 994,166; June 6; Sp. p. 128; Gaz. vol. 167; p. 23.
Kier, William E., Chicago, Ill. Printing-press ink-ribbon mechanism. No. 983,556; Feb. 7; Sp. p. 664; Gaz. vol. 163; p. 102.
Kieren, Joseph, Gilbert, assignor of one-half to J. W. Milligan, Duluth, Minn. Suction-roll. No. 991,999; May 9; Sp. p. 2479; Gaz. vol. 166; p. 441.
Kiesel, Nicholas, assignor to G. Piel, New York, N. Y. Adjustable cutting and forming implement. No. 984,678; Feb. 21; Sp. p. 3096; Gaz. vol. 163; p. 548.
Kiesel, Oskar, assignor to M. Aufhäuser and H. R. Bergmann, Munich, Germany. Device for cleansing and deodorizing consumption-gases. No. 995,353; June 13; Sp. p. 2727; Gaz. vol. 167; p. 466.
Kiesel, William F., Jr., Altoona, Pa., assignor to The Chicago Railway Equipment Company, Chicago, Ill. Third suspension for brake-beams. No. 997,922; July 11; Sp. p. 2833; Gaz. vol. 168; p. 484.
Kieser, Walter, Berlin, Germany, assignor to General Electric Company. Valve. No. 998,695; July 25; Sp. p. 4563; Gaz. vol. 168; p. 831.
Kiessig, Harry R., Sacramento, Cal. Advertising device. No. 1,003,272; Sept. 12; Sp. p. 2393; Gaz. vol. 170; p. 412.
Kieweg, Engelbert. (See Moeller, Kieweg, and Wagner.)
Kihlgren, David. (See Kihlgren, Theodor and D.)
Kihlgren, Theodor, assignor to National Equipment Company, Springfield, Mass. Grinding-disk. No. 992,000; May 9; Sp. p. 2481; Gaz. vol. 166; p. 441.
Kihlgren, Theodor and D., Springfield, Mass. Apron for confectionery machinery. No. 1,009,670; Nov. 21; Sp. p. 4511; Gaz. vol. 172; p. 777.
Kihlgren, Theodor and D., assignors to National Equipment Company, Springfield, Mass. Confectionery machinery. No. 1,011,444; Dec. 12; Sp. p. 2340; Gaz. vol. 173; p. 400.
Kilbourn Knitting Machine Company, The. (See Gilbert, George H., assignor.)
Kilbourn Manufacturing Corporation. (See Smith, William E., assignor.)
Kilcoyne, Earl P., Cairo, Ill. Suspension means for elevators. No. 996,861; July 4; Sp. p. 543; Gaz. vol. 168; p. 89.
Kilcoyne, Earl P., Cairo, Ill. Weighing device for elevators. No. 1,003,913; Sept. 19; Sp. p. 3722; Gaz. vol. 170; p. 663.
Kilduff, Peter. (See Green, John R., assignor.)
Kiley, Daniel J., *et al.* (See Castle, William W., assignor.)
Kiley, Edward J., Philadelphia, Pa., assignor to Nelson Valve Company. Valve. No. 991,784; May 9; Sp. p. 2038; Gaz. vol. 166; p. 367.
Kilgore, Frederick O., Somerville, assignor to Kilgore Manufacturing Company, Boston, Mass. Hanger for cushioning devices. No. 994,007; May 30; Sp. p. 6804; Gaz. vol. 166; p. 1222.
Kilgore Manufacturing Company. (See Fernald, Charles F., assignor.)
Kilgore Manufacturing Company. (See Kilgore, Frederick O., assignor.)
Kilgour, Dwight F., Lexington, Mass. Shock-absorber. No. 984,377; Feb. 14; Sp. p. 2432; Gaz. vol. 163; p. 411.
Killen, Edward B., London, England. Tire for vehicle-wheels. No. 988,640; Apr. 4; Sp. p. 756; Gaz. vol. 165; p. 120.
Killian, Fritz, Lichtenberg, near Berlin, Germany. Clutch-operating mechanism. No. 983,624; Feb. 7; Sp. p. 790; Gaz. vol. 163; p. 126.
Killian, George H., Hicksville, Ohio. Concrete grave-vault. No. 1,012,863; Dec. 26; Sp. p. 5489; Gaz. vol. 173; p. 971.
Killifer, Fred, Los Angeles, Cal. Forging-press. No. 992,361; May 16; Sp. p. 3314; Gaz. vol. 166; p. 596.
Killin, George W., Huntington, W. Va. Rubberless tire for motor-vehicles. No. 1,003,186; Sept. 12; Sp. p. 2206; Gaz. vol. 170; p. 379.
Killin, Ralph W., Memphis, Tenn. Flushing-valve device. No. 1,005,713; Oct. 10; Sp. p. 2507; Gaz. vol. 171; p. 430.
Killinger, John H., Colebrook, Pa. Rail-fastener. No. 1,003,113; Sept. 12; Sp. p. 2053; Gaz. vol. 170; p. 353.
Killinger, John H., Colebrook, Pa. Composite railway-tie. No. 1,008,829; Nov. 14; Sp. p. 2701; Gaz. vol. 172; p. 454.

Alphabetical list of patentees—Continued.

Killion, John F., assignor to Attleboro Chain Company, Attleboro, Mass. Bracelet. No. 1,010,636; Dec. 5; Sp. p. 531; Gaz. vol. 173; p. 83.
Killion, John H., Chicago, Ill. Packing-case. No. 986,467; Mar. 14; Sp. p. 1502; Gaz. vol. 164; p. 271.
Killion, John H., Chicago, Ill. Barrel or box. No. 1,011,209; Dec. 12; Sp. p. 1813; Gaz. vol. 173; p. 316.
Killion, Sarah L. A., Chicago, Ill. Barrel-head-releasing implement. No. 1,008,342; Nov. 14; Sp. p. 1550; Gaz. vol. 172; p. 283.
Killion, Sarah L. A., Chicago, Ill. Sheet-metal packing-case. No. 1,011,445; Dec. 12; Sp. p. 2341; Gaz. vol. 173; p. 400.
Killits, Morris J., and J. B. Durkee, Columbus, Ohio. Weather-strip stop. No. 1,010,150; Nov. 28; Sp. p. 5507; Gaz. vol. 172; p. 986.
Killman, Thomas A. (See Dupont and Killman.)
Killpatrick, Patrick, Huron, S. D. Restaurant-service. No. 992,672; May 16; Sp. p. 3943; Gaz. vol. 166; p. 703.
Kilmer, Elmer E. (See Worst and Kilmer.)
Kilpatrick, Walter W., Atlanta, Ga. Mail-bag receiving and delivering device. No. 984,378; Feb. 14; Sp. p. 2435; Gaz. vol. 163; p. 412.
Kilpatrick, William J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 996,260; June 27; Sp. p. 4739; Gaz. vol. 167; p. 843.
Kiltz, Peter, Rich Hill, Mo., assignor to J. A. Parsley and M. A. Dooley, Cary Station, Ill. Rotary engine. No. 992,673; May 16; Sp. p. 3945; Gaz. vol. 166; p. 704.
Kimball, Fred M. (See Carpenter and Kimball.)
Kimball, Harry G., Bronxville, N. Y., assignor to The Whitin Machine Works, Whitinsville, Mass. Detaching-roll motion. No. 1,003,612; Sept. 19; Sp. p. 3112; Gaz. vol. 170; p. 561.
Kimball, James L., Virginia, Minn. Railway-tie and fastening. No. 993,254; May 23; Sp. p. 5184; Gaz. vol. 166; p. 952.
Kimball, James L., Virginia, Minn. Railway-tie and fastening. No. 1,013,023; Dec. 26; Sp. p. 5860; Gaz. vol. 173; p. 1024.
Kimball, John A., Taylorville, Ill. Measure. No. 991,322; May 2; Sp. p. 1067; Gaz. vol. 166; p. 178.
Kimball, John A., deceased, Globe, Ariz.; E. R. McPheeters, administrator. Rail-joint. No. 1,008,038; Nov. 7; Sp. p. 846; Gaz. vol. 172; p. 135.
Kimball, Leland H. (See Neilson, William J., assignor.)
Kimball, Lon, Fort Smith, Ark. Mold-jacket. No. 1,002,522; Sept. 5; Sp. p. 762; Gaz. vol. 170; p. 112.
Kimball, William I., Little Rock, Ark. Spring-wheel. No. 985,039; Feb. 21; Sp. p. 3819; Gaz. vol. 163; p. 674.
Kimber, George A., Chicago, Ill. Pressing-machine. No. 991,518; May 9; Sp. p. 1475; Gaz. vol. 166; p. 276.
Kimber, Walter E., Johannesburg, Transvaal. Mechanism for operating stamp-mills. No. 1,001,282; Aug. 22; Sp. p. 4471; Gaz. vol. 169; p. 812.
Kimberley, Arthur N., Newark, N. J., assignor to The Central Stamping Co., New York, N. Y. Pot-cover handle. No. 999,315; Aug. 1; Sp. p. 231; Gaz. vol. 169; p. 43.
Kimberly-Clark Company. (See Thom, Peter R., assignor.)
Kimble, Austin, assignor to Kimble Electric Company, Chicago, Ill. Alternating-current motor. No. 1,004,437; Sept. 26; Sp. p. 4953; Gaz. vol. 170; p. 871.
Kimble, Charles H., Trenton, N. J. Closet-bowl. No. 988,787; Apr. 4; Sp. p. 1064; Gaz. vol. 165; p. 170.
Kimble Electric Company. (See Kimble, Austin, assignor.)
Kimble, Evan E., and J. M. Levis, assignors to Kimble Glass Company, Chicago, Ill. Vial-necking machine. No. 1,009,418; Nov. 21; Sp. p. 4026; Gaz. vol. 172; p. 695.
Kimble Glass Company. (See Kimble and Levis, assignors.)
Kimble, Martha. (See Gilchrist, Leslie E., assignor.)
Kimbrough, William J., Richmond, Va. Means for connecting lines to fishing-floats. No. 1,010,499; Dec. 5; Sp. p. 227; Gaz. vol. 173; p. 36.
Kimman, Henry J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Chuck. No. 993,382; May 30; Sp. p. 5474; Gaz. vol. 166; p. 1008.
Kimmons, Joel W., Lowell, Ark. Harrow. No. 1,012,086; Dec. 19; Sp. p. 3808; Gaz. vol. 173; p. 660.
Kincaid, Benjamin W., Wilson, N. C. Separator. No. 991,212; May 2; Sp. p. 825; Gaz. vol. 166; p. 139.
Kincaid, John, Vancouver, British Columbia, Canada. Impact water-wheel. No. 990,362; Apr. 25; Sp. p. 4460; Gaz. vol. 165; p. 789.
Kincannon, Leo C., Seabright, Cal. Flying-machine. No. 1,003,756; Sept. 19; Sp. p. 3424; Gaz. vol. 170; p. 611.
Kinch, Isaac H., Baker City, Oreg. Oil-can. No. 986,722; Mar. 14; Sp. p. 2044; Gaz. vol. 164; p. 358.
Kinckiner, Horace, Norristown, and W. Scott, Philadelphia, Pa. Screw-driver. No. 984,932; Feb. 21; Sp. p. 3610; Gaz. vol. 163; p. 637.
Kind, Carl A., Dubuque, Iowa. Window-fastener. No. 1,003,613; Sept. 19; Sp. p. 3116; Gaz. vol. 170; p. 561.
Kindel Bed Company. (See Andren, Fritz L., assignor.)
Kindhauser, Rosina, *née* Gebhart, Basel, Switzerland. Corset. No. 993,075; May 23; Sp. p. 4821; Gaz. vol. 166; p. 875.
Kindle, William S., Philadelphia, Pa. Variable-speed gearing. No. 980,794; Jan. 3; Sp. p. 1315; Gaz. vol. 162; p. 211.
Kindleberger, Jefferson, and A. J. Granville, San Diego, Cal. Wheel-scraper. No. 983,065; Jan. 31; Sp. p. 6355; Gaz. vol. 162; p. 1104.
Kindscherf, Karl, assignor to Continental-Caoutchouc- & Gutta-Percha-Compagnie. Hanover, Germany. Detachable wheel-rim. No. 1,012,367; Dec. 19; Sp. p. 4415; Gaz. vol. 173; p. 755.
Kinealy, John H., Ferguson, Mo. Diaphragm. No. 988,472; Apr. 4; Sp. p. 389; Gaz. vol. 165; p. 62.
King, Alfred R., Lindsborg, Kans. Finger-blotter. No. 1,002,523; Sept. 5; Sp. p. 763; Gaz. vol. 170; p. 112.
King, Arthur C., Southgate, and F. Hamer, Hayes, England. Transmission-gearing. No. 995,684; June 20; Sp. p. 3469; Gaz. vol. 167; p. 611.
King, Bert W. (See Jaenichen and King.)
King, Bert W., assignor to Standard Computing Scale Company, Limited, Detroit, Mich. Scale. No. 1,001,202; Aug. 22; Sp. p. 4318; Gaz. vol. 169; p. 787.
King, Bertell W., New York, N. Y. Combined silencer and bayonet. No. 989,158; Apr. 11; Sp. p. 1825; Gaz. vol. 165; p. 316.
King, Bertell W., New York, N. Y. Preëxhaust-port attachment. No. 1,008,039; Nov. 7; Sp. p. 847; Gaz. vol. 172; p. 135.
King, Charles B. (See King, Barnhart, and King.)
King, Charles B., assignor of one-half to O. J. Mulford, Detroit, Mich. Steering-gear for automobiles. No. 1,012,562; Dec. 19; Sp. p. 4790; Gaz. vol. 173; p. 822.
King, Charles D., Brooklyn, N. Y. Pivot-joint. (Reissue.) No. 13,243; May 23; Sp. p. 5353; Gaz. vol. 166; p. 959.
King, Charles E., King, Nebr. Broom-holder. No. 981,659; Jan. 17; Sp. p. 3314; Gaz. vol. 162; p. 563.
King, Charles H., Roseville, Ill. Anvil attachment. No. 985,262; Feb. 28; Sp. p. 4342; Gaz. vol. 163; p. 785.
King, Charles H., Jr., Oakland, Cal. Advertising-machine. No. 1,002,588; Sept. 5; Sp. p. 908; Gaz. vol. 170; p. 135.
King, Charles J. L., Chicago, Ill. Oil-furnace. No. 990,565; Apr. 25; Sp. p. 4940; Gaz. vol. 165; p. 863.
King, Charles S., New Rochelle, N. Y. Packet for braid and other narrow fabrics. No. 992,964; May 23; Sp. p. 4592; Gaz. vol. 166; p. 837.
King, Coleman, Weehawken, and M. B. Rundle, West Hoboken, N. J. Apparatus for tunnel construction. No. 1,002,524; Sept. 5; Sp. p. 764; Gaz. vol. 170; p. 112.
King, Dean W., San Jose, Cal. Combination telescoping cleaning-rod for guns. No. 1,008,548; Nov. 14; Sp. p. 2078; Gaz. vol. 172; p. 356.
King, Emmet P., Chicago, Ill. Car-wheel. No. 1,007,707; Nov. 7; Sp. p. 122; Gaz. vol. 172; p. 19.
King, Erbie B., Deanwood, assignor to F. Newbold, Washington, D. C. Truck. No. 1,012,139; Dec. 19; Sp. p. 3926; Gaz. vol. 173; p. 679.
King, Everett T. (See Allen and King.)
King, Floyd, Rockwell, Iowa. Corn-harvesting machine. No. 987,378; Mar. 21; Sp. p. 3418; Gaz. vol. 164; p. 613.
King, Fred B., assignor to National Spring and Wire Company, Albion, Mich. Spring-seat construction. No. 986,723; Mar. 14; Sp. p. 2046; Gaz. vol. 164; p. 358.
King, Fred E., Hancock, Mich. Mortar and concrete mixer. No. 988,788; Apr. 4; Sp. p. 1065; Gaz. vol. 165; p. 170.
King, Frederick W., London, Ontario, Canada. Making semisteel and the product thereof. No. 988,270; Mar. 28; Sp. p. 5332; Gaz. vol. 164; p. 943.
King, Frederick W., Cleveland, Ohio. Buckle. No. 1,005,229; Oct. 10; Sp. p. 1418; Gaz. vol. 171; p. 259.
King, George A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Pull-knob for lighting-chains. No. 992,001; May 9; Sp. p. 2483; Gaz. vol. 166; p. 441.
King, George G., and M. F. Lindsley, Deerfield township, Warren county, Ohio; said Lindsley assignor to said King. Explosive compound. No. 1,012,368; Dec. 19; Sp. p. 4416; Gaz. vol. 173; p. 756.
King, George I., Middletown, Pa., assignor to American Car & Foundry Company, New York, N. Y. Car-underframe. No. 989,850; Apr. 18; Sp. p. 3349; Gaz. vol. 165; p. 584.
King, George I., Middletown, Pa., assignor to American Car & Foundry Company, New York, N. Y. Car-underframe. No. 998,696; July 25; Sp. p. 4564; Gaz. vol. 168; p. 832.
King, George I., Middletown, Pa., assignor to American Car & Foundry Company, New York, N. Y. Car-underframe. No. 998,697; July 25; Sp. p. 4566; Gaz. vol. 168; p. 832.
King, George W., H. J. Barnhart, and C. B. King, assignors to The Marion Steam Shovel Company, Marion, Ohio. Boom for excavating-machines. No. 1,012,087; Dec. 19; Sp. p. 3810; Gaz. vol. 173; p. 660.
King, Gertrude M., Nantucket, Mass. Plant and flower pot. No. 986,395; Mar. 7; Sp. p. 1348; Gaz. vol. 164; p. 217.
King & Hamilton Company. (See Gilman, John H., assignor.)
King, Henry K., Richmond, Va., assignor of one-third to E. W. Smith, Washington, D. C. Whip-lock. No. 1,003,467; Sept. 19; Sp. p. 2791; Gaz. vol. 170; p. 511.
King, Henry N., assignor of one-half to F. D. Teachout, Adrian, Mich. Building-block. No. 1,009,319; Nov. 21; Sp. p. 3783; Gaz. vol. 172; p. 659.

King, Homer A., Colton, Cal. Airship-propeller. No. 1,002,703; Sept. 5; Sp. p. 1156; Gaz. vol. 170; p. 174.
King, Homer A., Colton, Cal. Rotary engine. No. 1,010,378; Nov. 28; Sp. p. 5976; Gaz. vol. 172; p. 1061.
King, Howard E., Somerville, Conn. Double-line striper. No. 1,004,438; Sept. 26; Sp. p. 4955; Gaz. vol. 170; p. 871.
King, Isaac K., Pittsburgh, Pa. Photographic-plate rack. No. 1,006,486; Oct. 24; Sp. p. 4254; Gaz. vol. 171; p. 764.
King, J. H. (See Becker, Julius H., assignor.)
King, James B., W. E. Hughes, Clyde, Ohio, and F. W. Hall, Detroit, Mich. Apparatus for drying air. No. 996,771; July 4; Sp. p. 342; Gaz. vol. 168; p. 58.
King, James B., W. E. Hughes, Clyde, Ohio, and F. W. Hall, Detroit, Mich. Mausoleum construction. No. 998,908; July 25; Sp. p. 5060; Gaz. vol. 168; p. 908.
King, John F., Coyle, Okla. Buckle. No. 1,012,864; Dec. 26; Sp. p. 5491; Gaz. vol. 173; p. 971.
King, Joseph V., Jr. (See Roll and King.)
King, Laura M., Toronto, Ontario, Canada. Hand plaiting attachment. No. 987,075; Mar. 14; Sp. p. 2750; Gaz. vol. 164; p. 476.
King, Orrin H., Chicago, Ill. Ore-concentrator. No. 1,007,116; Oct. 31; Sp. p. 5648; Gaz. vol. 171; p. 1037.
King, Orrin H., Chicago, Ill., assignor to United States Concentrating Company. Ore-concentrating machine. No. 1,002,525; Sept. 5; Sp. p. 768; Gaz. vol. 170; p. 113.
King, Percival E. (See Wittmann and King.)
King Powder Company, The. (See Lindsley, Milton F., assignor.)
King Powder Company, The. (See Peters and Lindsley, assignors.)
King, Robert O., North Tonawanda, N. Y. Vessel construction. No. 988,354; Apr. 4; Sp. p. 128; Gaz. vol. 165; p. 23.
King, Robert O., North Tonawanda, N. Y. Sash-bar or rafter. No. 1,008,343; Nov. 14; Sp. p. 1551; Gaz. vol. 172; p. 283.
King, Robert O., North Tonawanda, N. Y. Rafter-bracket. No. 1,010,771; Dec. 5; Sp. p. 839; Gaz. vol. 173; p. 130.
King, Rufus H., Jacksonville, Fla. Swing. No. 984,091; Feb. 14; Sp. p. 1832; Gaz. vol. 163; p. 315.
King, Thomas E., Stockton, Cal. Skate-wheel. No. 1,006,952; Oct. 24; Sp. p. 5274; Gaz. vol. 171; p. 928.
King, Thomas J., Richmond, Va. Combined cotton chopper, cultivator, and weeder. No. 996,772; July 4; Sp. p. 344; Gaz. vol. 168; p. 59.
King, Thomas J., Richmond, Va. Seed and fertilizer distributer. No. 997,299; July 11; Sp. p. 1485; Gaz. vol. 168; p. 271.
King, Thomas J., Richmond, Va. Bucket-handle. No. 1,005,556; Oct. 10; Sp. p. 2165; Gaz. vol. 171; p. 377.
King, Thomas L., La Jara, Colo. Nut-lock. No. 982,683; Jan. 24; Sp. p. 5491; Gaz. vol. 162; p. 947.
King, Tom C., Marion, Ala., assignor to National Metallurgic Company, Jersey City, N. J. Treating finely-divided substances containing iron compounds. No. 995,542; June 20; Sp. p. 3147; Gaz. vol. 167; p. 560.
King, Victor L. (See Baker, King, and Parker.)
King, William J. H., London, England. Portable barrier. No. 1,010,379; Nov. 28; Sp. p. 5981; Gaz. vol. 172; p. 1062.
King, Winfield L., Pittsburg, Pa. Receptacle for condensed-milk cans. No. 998,533; July 18; Sp. p. 4191; Gaz. vol. 168; p. 742.
Kingsbury, Albert, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 982,830; Jan. 31; Sp. p. 5824; Gaz. vol. 162; p. 1025.
Kingsbury, Albert, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine. No. 992,965; May 23; Sp. p. 4593; Gaz. vol. 166; p. 837.
Kingsbury, Albert, Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Collector-ring for dynamo-electric machines. No. 993,076; May 23; Sp. p. 4822; Gaz. vol. 166; p. 876.
Kingsbury, Arthur L., assignor to The Kingsbury Box & Printing Company, Northampton, Mass. Box for containing spool-silk and the like. No. 995,259; June 13; Sp. p. 2514; Gaz. vol. 167; p. 434.
Kingsbury Box & Printing Company, The. (See Kingsbury, Arthur L., assignor.)
Kingsbury, Harry T., Keene, N. H. Toy hand-car. No. 989,268; Apr. 11; Sp. p. 2066; Gaz. vol. 165; p. 352.
Kingsbury, Harry T., Keene, N. H. Wheeled toy. No. 989,269; Apr. 11; Sp. p. 2067; Gaz. vol. 165; p. 352.
Kingsbury, Harry T., Keene, N. H. Toy dump-car. No. 995,153; June 13; Sp. p. 2305; Gaz. vol. 167; p. 400.
Kingsbury, Jere G., assignor to New York Adding Typewriter Company, Orange, N. J. Adding type-writer. No. 982,606; Jan. 24; Sp. p. 5344; Gaz. vol. 162; p. 921.
Kingsbury, Jere G., assignor to The Grant Manufacturing & Machine Company, Bridgeport, Conn. Rotary rivet-spinning machine. No. 992,208; May 16; Sp. p. 2919; Gaz. vol. 166; p. 543.
Kingsley, Candide, assignor of one-third to F. H. Cummings and one-third to D. Munro, Montreal, Quebec, Canada. Clamping device. No. 998,014; July 18; Sp. p. 3063; Gaz. vol. 168; p. 558.
Kingsley, Dellano O. (See Meeks, Ulysses S., assignor.)
Kingsley, Earl W., Los Angeles, Cal. Adjustable tire-support. No. 994,644; June 6; Sp. p. 1147; Gaz. vol. 167; p. 188.
Kingsley, Henry M., Washington, D. C. Mixing-drum. No. 996,021; June 20; Sp. p. 4186; Gaz. vol. 167; p. 728.
Kingsley, John H., Manchester, assignor, by mesne assignments, to Detroit Auto Specialty Co., Detroit, Mich. Electric-lamp fixture. No. 1,001,649; Aug. 29; Sp. p. 5217; Gaz. vol. 169; p. 967.
Kingsley, William M., *et al.* (See Thompson and Netter, assignors.)
Kingston, Ed. (See Somers, Perren G., assignor.)
Kingwell, Kennett F., Rugby, England, assignor to General Electric Company. Switching mechanism. No. 1,001,650; Aug. 29; Sp. p. 5219; Gaz. vol. 169; p. 968.
Kinkade, Bryant B., Berkeley, Cal. Soil-pipe-testing plug. No. 986,297; Mar. 7; Sp. p. 1119; Gaz. vol. 164; p. 181.
Kinkade, Thomas, Etna, Utah. Animal-trap. No. 990,817; Apr. 25; Sp. p. 5497; Gaz. vol. 165; p. 947.
Kinne, A. A. (See Walsh, Harry C. H., assignor.)
Kinne, Edmund P. (See Janney and Kinne.)
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Railway-car coupling. No. 990,363; Apr. 25; Sp. p. 4462; Gaz. vol. 165; p. 790.
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Car-coupling. No. 1,009,419; Nov. 21; Sp. p. 4033; Gaz. vol. 172; p. 696.
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Pilot-coupling. No. 1,009,974; Nov. 28; Sp. p. 5146; Gaz. vol. 172; p. 926.
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, New York, N. Y. Pocket-coupling. No. 1,009,975; Nov. 28; Sp. p. 5147; Gaz. vol. 172; p. 926.
Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Car-coupling. No. 1,009,976; Nov. 28; Sp. p. 5149; Gaz. vol. 172; p. 927.
Kinne, Martin V., assignor to E. C. Slocum, Fenton, Mich. Grass-seed sower. No. 1,008,160; Nov. 7; Sp. p. 1089; Gaz. vol. 172; p. 178.
Kinnear, Carlton W., Columbus, Ohio. Feeding device for underfeed stokers. No. 984,568; Feb. 21; Sp. p. 2867; Gaz. vol. 163; p. 510.
Kinnear Manufacturing Company, The. (See Brunst, William M., assignor.)
Kinnear, William R., New Castle, Pa. Metal building frame or sash. No. 999,656; Aug. 1; Sp. p. 903; Gaz. vol. 169; p. 157.
Kinnear, William R., New Castle, Pa. Machine for partially loosening or separating metal sheets. No. 1,001,651; Aug. 29; Sp. p. 5221; Gaz. vol. 169; p. 968.
Kinnell, George N., Pittsfield, Mass. Non-slip or protective appliance for the hoofs of animals. No. 1,010,382; Nov. 28; Sp. p. 5989; Gaz. vol. 172; p. 1063.
Kinnell, George N., Pittsfield, Mass. Overshoe and tread-surface therefor. No. 1,010,383; Nov. 28; Sp. p. 5993; Gaz. vol. 172; p. 1063.
Kinnell, George N., Pittsfield, Mass. Overshoe. No. 1,010,384; Nov. 28; Sp. p. 5995; Gaz. vol. 172; p. 1063.
Kinnell, George N., Pittsfield, Mass. Emergency-overshoe and link therefor. No. 1,010,385; Nov. 28; Sp. p. 5997; Gaz. vol. 172; p. 1064.
Kinnell, George N., Pittsfield, Mass. Overshoe. No. 1,010,386; Nov. 28; Sp. p. 5999; Gaz. vol. 172; p. 1064.
Kinnell, George N., Pittsfield, Mass. Overshoe. No. 1,010,387; Nov. 28; Sp. p. 6002; Gaz. vol. 172; p. 1064.
Kinnell, George N., assignor of one-third to J. J. Whittlesey, Pittsfield, Mass. Mixing and grinding machine. No. 1,001,652; Aug. 29; Sp. p. 5224; Gaz. vol. 169; p. 969.
Kinnell, George N., assignor to The Kinnell Manufacturing Company, Pittsfield, Mass. Overshoe for horses. No. 1,010,380; Nov. 28; Sp. p. 5982; Gaz. vol. 172; p. 1062.
Kinnell, George N., assignor to The Kinnell Manufacturing Company, Pittsfield, Mass. Overshoe-support for horses. No. 1,010,381; Nov. 28; Sp. p. 5987; Gaz. vol. 172; p. 1062.
Kinnell Manufacturing Company, The. (See Kinnell, George N., assignor.)
Kinney, Bradley R., Binghamton, N. Y. Sanitary butter-tub. No. 1,005,434; Oct. 10; Sp. p. 1882; Gaz. vol. 171; p. 333.
Kinney, Clingmon O., Humboldt, Kans. Derrick for stacking hay and the like. No. 987,305; Mar. 21; Sp. p. 3278; Gaz. vol. 164; p. 589.
Kinney, Daniel R. (See Saxton, Oliver G., assignor.)
Kinney, Frank F., assignor to Minerallac Electric Company, Chicago, Ill. Printing-meter. No. 987,725; Mar. 28; Sp. p. 4155; Gaz. vol. 164; p. 760.
Kinney, George V., Kenyon, Minn. Rural-mail-delivery device. No. 986,011; Mar. 7; Sp. p. 554; Gaz. vol. 164; p. 88.
Kinney, George V., Kenyon, Minn. Rural-mail-delivery device. No. 986,012; Mar. 7; Sp. p. 556; Gaz. vol. 164; p. 89.
Kinney, Henry E., Doxey, Okla. Harrow. No. 982,607; Jan. 24; Sp. p. 5345; Gaz. vol. 162; p. 921.

Alphabetical list of patentees—Continued.

Kinney, James O., Grand Junction, Colo. Riffle for amalgamation of gold. No. 1,006,953; Oct. 24; Sp. p. 5275; Gaz. vol. 171; p. 928.
Kinney, Justus R., Boston, Mass. Water-meter. No. 981,660; Jan. 17; Sp. p. 3315; Gaz. vol. 162; p. 563.
Kinney, Justus R., Boston, Mass. Rotary pump. No. 993,530; May 30; Sp. p. 5795; Gaz. vol. 166; p. 1058.
Kinney, Justus R., Boston, Mass. Rotary pump for use in pumping wood-pulp and similar substances. No. 1,001,533; Aug. 22; Sp. p. 4974; Gaz. vol. 169; p. 897.
Kinney, Justus R., Boston, Mass. Control for sewage and other pumps. No. 1,003,757; Sept. 19; Sp. p. 3425; Gaz. vol. 170; p. 611.
Kinney, Justus R., Boston, Mass. Rotary pump. No. 1,007,033; Oct. 24; Sp. p. 5441; Gaz. vol. 171; p. 954.
Kinney, Lloyd H. (See McGuire and Kinney.)
Kinney, Michael A., Hyde, New Zealand. Animal-trap. No. 997,393; July 11; Sp. p. 1664; Gaz. vol. 168; p. 301.
Kinney, Ralph A., *et al.* (See Baer, Harry H., assignor.)
Kinnings, Arnold, Southport, England. Variable gearing. No. 1,006,101; Oct. 17; Sp. p. 3348; Gaz. vol. 171; p. 597.
Kinowski, Anthony, Scranton, Pa. Pipe-hanger. No. 981,769; Jan. 17; Sp. p. 3549; Gaz. vol. 162; p. 602.
Kinsey, David, *et al.* (See Longtine, Robert V., assignor.)
Kinsey, Samuel A., Jr., Peoria, Ill. Valve. No. 1,006,564; Oct. 24; Sp. p. 4447; Gaz. vol. 171; p. 794.
Kinsey, Samuel A., Jr., Peoria, Ill. Compression and waste cock. No. 1,006,565; Oct. 24; Sp. p. 4450; Gaz. vol. 171; p. 794.
Kinsler-Bennett Company, The. (See Kinsler, George B., assignor.)
Kinsler, George B., assignor to The Kinsler-Bennett Company, Hartford, Conn. Universal joint. No. 980,966; Jan. 10; Sp. p. 1806; Gaz. vol. 162; p. 301.
Kinsley, William S., Reading, Mass. Window-guard. No. 1,010,921; Dec. 5; Sp. p. 1165; Gaz. vol. 173; p. 182.
Kintner, Charles J., New York, N. Y. Hose-connector. No. 1,000,414; Aug. 15; Sp. p. 2566; Gaz. vol. 169; p. 478.
Kintner, Henry D., Bryan, Ohio. Gate. No. 1,009,152; Nov. 21; Sp. p. 3374; Gaz. vol. 172; p. 597.
Kintner, Samuel M., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 999,800; Aug. 8; Sp. p. 1204; Gaz. vol. 169; p. 236.
Kintz, Herbert, Sharpsburg, and J. P. McConnel, Pittsburg, Pa. Wheel-hub and axle-bearing. No. 995,608; June 20; Sp. p. 3316; Gaz. vol. 167; p. 584.
Kintz, Mary E., Tacoma, Wash. Garment-fastener. No. 992,362; May 16; Sp. p. 3315; Gaz. vol. 166; p. 567.
Kintzel, Kenneth L. (See Simmons, Oliver G., assignor.)
Kinyon, Robert D., Chicago, Ill. Barrel-finishing machine. No. 980,967; Jan. 10; Sp. p. 1808; Gaz. vol. 162; p. 301.
Kinyon, Robert D., Chicago, Ill. Barrel-forming machine. No. 1,004,540; Sept. 26; Sp. p. 5152; Gaz. vol. 170; p. 906.
Kinzer, John J., assignor to Pittsburgh Brake Shoe Company, Pittsburg, Pa. Brake-shoe. No. 996,415; June 27; Sp. p. 5129; Gaz. vol. 167; p. 898.
Kinzman, John, Laporte, Ind. Folding car-step. No. 1,001,283; Aug. 22; Sp. p. 4474; Gaz. vol. 169; p. 813.
Kip, Thomas H. (See Winters, Frank J., Jr., assignor.)
Kipp, William H., and H. Berger, Mexico, Mexico. Apparatus for molding concrete pipes. No. 995,354; June 13; Sp. p. 2729; Gaz. vol. 167; p. 466.
Kippen, James W. (See Wares and Kippen.)
Kirby, Edward P., *et al.* (See Wolke, George, assignor.)
Kirby, Eleson P., Timmonsville, S. C. Plow-beam. No. 990,566; Apr. 25; Sp. p. 4944; Gaz. vol. 165; p. 863.
Kirby, George J., Willimantic, Conn. Eyeglass-receptacle. No. 991,323; May 2; Sp. p. 1069; Gaz. vol. 166; p. 179.
Kirby, James B., Cleveland, Ohio. Fluid-actuated vibrator. No. 1,008,476; Nov. 14; Sp. p. 1933; Gaz. vol. 172; p. 330.
Kirby, James B., Cleveland, Ohio. Vacuum-producing machine. No. 1,010,388; Nov. 28; Sp. p. 6004; Gaz. vol. 172; p. 1065.
Kirby, James D., assignor to Hanlon-Thornton Company, North Attleboro, Mass. Bracelet. No. 993,303; May 23; Sp. p. 5281; Gaz. vol. 166; p. 947.
Kirby, James D., assignor to Hanlon-Thornton Company, North Attleboro, Mass. Joint for tubular sections. No. 993,304; May 23; Sp. p. 5283; Gaz. vol. 166; p. 947.
Kirby, James D., assignor to Hanlon-Thornton Company, North Attleboro, Mass. Bracelet. No. 993,305; May 23; Sp. p. 5284; Gaz. vol. 166; p. 948.
Kirby, John, Jr., Dayton, Ohio, assignor to United States Headlight Company, Buffalo, N. Y. Dash electric headlight. No. 1,003,468; Sept. 19; Sp. p. 2792; Gaz. vol. 170; p. 511.
Kirby, Patrick H., Clinton, Mass. Sign-exhibit attachment for faucets. No. 983,289; Feb. 7; Sp. p. 66; Gaz. vol. 163; p. 13.
Kircheis, Oswin, Philadelphia, Pa. Dyeing apparatus. No. 1,010,637; Dec. 5; Sp. p. 533; Gaz. vol. 173; p. 83.
Kirchen, Otto J., Hancock, Mich. Gas-engine. No. 980,423; Jan. 3; Sp. p. 507; Gaz. vol. 162; p. 86.
Kirchhoff, James W., New Orleans, La. Compressing or baling cotton, wool, silk, &c. No. 1,003,114; Sept. 12; Sp. p. 2055; Gaz. vol. 170; p. 354.
Kirchner, Henry W., assignor to River & Rail Transportation Company, St. Louis, Mo. Freight-car. No. 997,300; July 11; Sp. p. 1486; Gaz. vol. 168; p. 271.
Kirchoff, Frederick, Meriden, Iowa. Animal-holding crate. No. 994,752; June 13; Sp. p. 1437; Gaz. vol. 167; p. 265.
Kirilloff, Michail K., Bakou, Russia. Apparatus for the production of compressed air. No. 986,577; Mar. 14; Sp. p. 1743; Gaz. vol. 164; p. 309.
Kirk, Alva H., Minneapolis, Minn. Sieve-cleaning device. No. 989,713; Apr. 18; Sp. p. 3043; Gaz. vol. 165; p. 536.
Kirk, Edward, Seattle, Wash. Compensating thrust-bearing for shafts. No. 986,635; Mar. 14; Sp. p. 1861; Gaz. vol. 164; p. 330.
Kirk, Erastus F. (See Slingluff, Eugene, assignor.)
Kirk, Robert L., Dallas, Tex. Combined corner-brace and hinge for screens. No. 994,933; June 13; Sp. p. 1859; Gaz. vol. 167; p. 327.
Kirk, William C., assignor to Patten Manufacturing Company, Chattanooga, Tenn. Power-transmission gearing. No. 983,452; Feb. 7; Sp. p. 420; Gaz. vol. 163; p. 67.
Kirkaldie, James B., Elma, Wash. Pivoted removable counter-bin. No. 1,009,977; Nov. 28; Sp. p. 5150; Gaz. vol. 172; p. 927.
Kirkbride, William H., Cleveland, Ohio. Means of securing and supporting railway-rails. No. 1,004,277; Sept. 26; Sp. p. 4619; Gaz. vol. 170; p. 817.
Kirkby, Jacques J., Norwich, assignor to Borden's Condensed Milk Co., New York, N. Y. Can-marking machine. No. 980,795; Jan. 3; Sp. p. 1317; Gaz. vol. 162; p. 212.
Kirkegaard, Walter, Detroit, Mich. Piano-playing attachment. No. 1,011,967; Dec. 19; Sp. p. 3529; Gaz. vol. 173; p. 617.
Kirkendall, Carl H., Columbus, Ohio. Railway signal and safety device. No. 999,316; Aug. 1; Sp. p. 232; Gaz. vol. 169; p. 44.
Kirkland, Hugh T. (See Penick and Kirkland.)
Kirkland, John W., Schenectady, N. Y., assignor to General Electric Company. Power system. No. 992,209; May 16; Sp. p. 2921; Gaz. vol. 166; p. 543.
Kirkland, Mary W., Los Angeles, Cal. Coin-receptacle. No. 1,007,117; Oct. 31; Sp. p. 5652; Gaz. vol. 171; p. 1038.
Kirkman, Karl F., Erie, Pa., assignor to Automatic Press Feeder Company, Chicago, Ill. Printing-press. No. 1,007,209; Oct. 31; Sp. p. 5870; Gaz. vol. 171; p. 1071.
Kirkpatrick, Alexander L., Richmond, Mo. Acetylene-gas generator. No. 989,548; Apr. 11; Sp. p. 2679; Gaz. vol. 165; p. 449.
Kirkpatrick, Robert S., Des Moines, Iowa. Thermo-electric cooker. No. 982,831; Jan. 31; Sp. p. 5828; Gaz. vol. 162; p. 1025.
Kirkpatrick, William M., *et al.* (See O'Brien, Arthur, assignor.)
Kirksey, John G., Denver, Colo. Ore-granulator. No. 994,934; June 13; Sp. p. 1859; Gaz. vol. 167; p. 327.
Kirkus, John W., Shawmut, Ala. Loom. No. 1,006,228; Oct. 17; Sp. p. 3660; Gaz. vol. 171; p. 644.
Kirkwood, Robert G., Pittsburg, Pa. Oil-burner stand. No. 1,001,863; Aug. 29; Sp. p. 5693; Gaz. vol. 169; p. 1042.
Kirsch, Andy, Carroll, Iowa. Hay-rack. No. 986,468; Mar. 14; Sp. p. 1504; Gaz. vol. 164; p. 271.
Kirsch, Charles W., assignor to Kirsch Manufacturing Company, Sturgis, Mich. Curtain-rod. No. 1,003,614; Sept. 19; Sp. p. 3117; Gaz. vol. 170; p. 562.
Kirsch, George H., Germiston, Transvaal. Tube-mill liner. No. 1,002,406; Sept. 5; Sp. p. 521; Gaz. vol. 170; p. 73.
Kirsch Manufacturing Company. (See Kirsch, Charles W., assignor.)
Kirschner, Fred. (See Gross, Henry C., assignor.)
Kiser, David J., Morganville, Ga. Pumping machinery. No. 992,002; May 9; Sp. p. 2484; Gaz. vol. 166; p. 441.
Kiser, Isaac L., St. Charles, Mo. Thermally-operated electric time-light. No. 994,846; June 13; Sp. p. 1655; Gaz. vol. 167; p. 297.
Kish, Joseph, Duquesne, Pa. Curtain-pole. No. 1,010,151; Nov. 28; Sp. p. 5508; Gaz. vol. 172; p. 987.
Kiso, Henry K., New York, N. Y. Striking-line. No. 997,831; July 11; Sp. p. 2633; Gaz. vol. 168; p. 453.
Kissinger, Jacob, and G. Frisch, Artesia, N. Mex. Irrigation-gate. No. 1,003,469; Sept. 19; Sp. p. 2793; Gaz. vol. 170; p. 511.
Kissling, Ludwig. (See Hartel and Kissling.)
Kistler, Jonathan, *et al.* (See Bremer, Russell H., assignor.)
Kistner, Carl H. L. (See Wertz and Kistner.)
Kitchen, Emanuel W., Solebury, Pa. Potato-planter. No. 1,005,435; Oct. 10; Sp. p. 1883; Gaz. vol. 171; p. 333.
Kitchen, John F., assignor to The Spirella Company, Meadville, Pa. Electroplating-rack. No. 1,010,638; Dec. 5; Sp. p. 535; Gaz. vol. 173; p. 84.
Kitchen, John F., assignor to The Spirella Company, Meadville, Pa. Electroplating-rack. No. 1,010,639; Dec. 5; Sp. p. 536; Gaz. vol. 173; p. 84.
Kitchen, John G. A., Lancaster, England. Portable cooking-range. No. 983,290; Feb. 7; Sp. p. 67; Gaz. vol. 163; p. 13.

Kitchen, John G. A., Scotford, Lancaster, England. Resilient tire. No. 993,306; May 23; Sp. p. 5285; Gaz. vol. 166; p. 948.
Kitchen, John G. A., Lancaster, and I. H. Storey, Ambleside, England. Pneumatic tire. No. 1,011,305; Dec. 12; Sp. p. 2047; Gaz. vol. 173; p. 351.
Kitchen, John G. A., Lancaster, and I. H. Storey, Ambleside, England. Pneumatic tire. No. 1,011,901; Dec. 19; Sp. p. 3387; Gaz. vol. 173; p. 594.
Kitchen, Joseph M. W., East Orange, N. J. Heating apparatus. No. 982,432; Jan. 24; Sp. p. 4981; Gaz. vol. 162; p. 861.
Kitchen, Joseph M. W., East Orange, N. J. Power-generating system. No. 992,780; May 23; Sp. p. 4165; Gaz. vol. 166; p. 770.
Kitchen, Joseph M. W., East Orange, N. J. Means for accumulating, concentrating, storing, and using waste heat. No. 992,881; May 23; Sp. p. 4395; Gaz. vol. 166; p. 807.
Kitchen, Joseph M. W., East Orange, N. J. Heating apparatus. No. 993,690; May 30; Sp. p. 6163; Gaz. vol. 166; p. 1115.
Kitchen, Joseph M. W., East Orange, N. J. Heating process and system. No. 995,154; June 13; Sp. p. 2306; Gaz. vol. 167; p. 400.
Kitchen, Joseph M. W., East Orange, N. J. System for distillation. No. 1,008,273; Nov. 7; Sp. p. 1346; Gaz. vol. 172; p. 220.
Kitchen, Joseph M. W., East Orange, N. J. Producer-gas apparatus. No. 1,008,274; Nov. 7; Sp. p. 1351; Gaz. vol. 172; p. 221.
Kitchen, Joseph M. W., East Orange, N. J. Heating and power plant. No. 1,009,320; Nov. 21; Sp. p. 3785; Gaz. vol. 172; p. 659.
Kitchen, Richard S., Steelton, Pa. Protector for the beads of boiler-flues. No. 1,000,017; Aug. 8; Sp. p. 1653; Gaz. vol. 169; p. 310.
Kitsee, Isidor, Philadelphia, Pa. Telegraph system. No. 983,240; Jan. 31; Sp. p. 6694; Gaz. vol. 162; p. 1162.
Kitsee, Isidor, Philadelphia, Pa. Telegraphic receiving organism. No. 985,680; Feb. 28; Sp. p. 5251; Gaz. vol. 163; p. 927.
Kitsee, Isidor, Philadelphia, Pa. Telegraphic receiving organism. No. 985,760; Feb. 28; Sp. p. 5449; Gaz. vol. 163; p. 956.
Kitsee, Isidor, Philadelphia, Pa. Cable-telegraph apparatus. No. 986,396; Mar. 7; Sp. p. 1350; Gaz. vol. 164; p. 217.
Kitsee, Isidor, Philadelphia, Pa. Quadruplex telegraphy. No. 987,630; Mar. 21; Sp. p. 3919; Gaz. vol. 164; p. 698.
Kitsee, Isidor, Philadelphia, Pa. Quadruplex printing telegraphy. No. 987,631; Mar. 21; Sp. p. 3921; Gaz. vol. 164; p. 698.
Kitsee, Isidor, Philadelphia, Pa. Telephony. No. 988,876; Apr. 4; Sp. p. 1233; Gaz. vol. 165; p. 197.
Kitsee, Isidor, Philadelphia, Pa. Means for correcting sensitive relays. No. 988,877; Apr. 4; Sp. p. 1234; Gaz. vol. 165; p. 197.
Kitsee, Isidor, Philadelphia, Pa. Cable-telegraph system. No. 988,878; Apr. 4; Sp. p. 1237; Gaz. vol. 165; p. 198.
Kitsee, Isidor, Philadelphia, Pa. Telegraphy. No. 988,879; Apr. 4; Sp. p. 1240; Gaz. vol. 165; p. 198.
Kitsee, Isidor, Philadelphia, Pa. Producing phonographic records. No. 990,144; Apr. 18; Sp. p. 3949; Gaz. vol. 165; p. 681.
Kitsee, Isidor, Philadelphia, Pa. Telegraphic relay. No. 991,325; May 2; Sp. p. 1076; Gaz. vol. 166; p. 179.
Kitsee, Isidor, Philadelphia, Pa. Cable duplex system. No. 1,005,714; Oct. 10; Sp. p. 2509; Gaz. vol. 171; p. 431.
Kitsee, Isidor, Philadelphia, Pa. Telegraphy. No. 1,005,715; Oct. 10; Sp. p. 2511; Gaz. vol. 171; p. 431.
Kitsee, Isidor, Philadelphia, Pa. Cable-relay apparatus. No. 1,011,210; Dec. 12; Sp. p. 1818; Gaz. vol. 173; p. 316.
Kitsee, Isidor, assignor of one-half to W. J. Latta, Philadelphia, Pa. Telegraphy. No. 991,324; May 2; Sp. p. 1071; Gaz. vol. 166; p. 179.
Kittle, William J. (See Varchmin and Kittle.)
Kitts Manufacturing Company. (See Kitts, Willard A., Jr., assignor.)
Kitts, Willard A., Jr., assignor to Kitts Manufacturing Company, Oswego, N. Y. Fluid-pressure regulator. No. 1,007,451; Oct. 31; Sp. p. 6370; Gaz. vol. 171; p. 1157.
Kittson, Alfred B., New York, N. Y., assignor to American Gold Amalgamation Company, Portland, Me. Amalgamator. No. 991,857; May 9; Sp. p. 2199; Gaz. vol. 166; p. 392.
Kjallgren, Salomon, Rockford, Ill. Pedestal extension-table. No. 996,261; June 27; Sp. p. 4757; Gaz. vol. 167; p. 843.
Kjeldaas, Oscar, Christiania, Norway. Rotating hand-stamp for marking parcels, letters, and the like. No. 983,066; Jan. 31; Sp. p. 6357; Gaz. vol. 162; p. 1105.
Kjellin, Fredrik A., Stockholm, Sweden. Treating ores by the blast-furnace process. No. 983,453; Feb. 7; Sp. p. 424; Gaz. vol. 163; p. 68.
Kjolseth, Ole K., Schenectady, N. Y., assignor to General Electric Company. Switch device. No. 1,010,640; Dec. 5; Sp. p. 538; Gaz. vol. 173; p. 85.
Klaber, Augustus D., London, England. Letter and like file. No. 1,003,470; Sept. 19; Sp. p. 2794; Gaz. vol. 170; p. 511.
Klaczko, Max, Riga, Russia. Type-writing machine. No. 999,502; Aug. 1; Sp. p. 607; Gaz. vol. 169; p. 105.
Klages, August, and F. Sommer, Salbke-Westerhüsen-on-the-Elbe, Germany. Stable perborate mixture yielding hydrogen peroxid. No. 996,773; July 4; Sp. p. 346; Gaz. vol. 168; p. 59.
Klaiber, Maximilian, New York, assignor to American Bioscope Company, Brooklyn, N. Y. Film-feeding mechanism. No. 988,473; Apr. 4; Sp. p. 391; Gaz. vol. 165; p. 63.
Klatt, John, Blue Earth, Minn. Yieldable wheel. No. 1,006,759; Oct. 24; Sp. p. 4835; Gaz. vol. 171; p. 860.
Klauder, Rudolph H., Philadelphia, Pa. Fastening for electrical conductors. No. 1,001,864; Aug. 29; Sp. p. 5696; Gaz. vol. 169; p. 1042.
Klauder-Weldon Dyeing Machine Company. (See Frohlich, Charles, assignor.)
Klaus, Heinrich G., deceased, Zurich, Switzerland; O. Klaus, administrator. Plow. No. 994,321; June 6; Sp. p. 449; Gaz. vol. 167; p. 77.
Klaus, Otto, administrator. (See Klaus, Heinrich G.)
Klay, Abraham B., East Sparta, Ohio. Machine for pressing plastic material. No. 984,933; Feb. 21; Sp. p. 3613; Gaz. vol. 163; p. 637.
Kleber, Peter, Wiesbaden, Germany, assignor of one-half to H. Zirwas, Yonkers, N. Y. Reflector. No. 983,241; Jan. 31; Sp. p. 6699; Gaz. vol. 162; p. 1162.
Kleckner, William R., Bay City, Mich. Fertilizing scale-poison. No. 1,003,273; Sept. 12; Sp. p. 2396; Gaz. vol. 170; p. 412.
Kleeman, Charley, Roswell, N. Mex. Transplanting-pot. No. 980,873; Jan. 3; Sp. p. 1489; Gaz. vol. 162; p. 239.
Kleffman, Frank T. (See Bodley and Kleffman.)
Klehe, Alexander, Ratibor, and A. Müller, Dortmund, Germany. Lathe. No. 1,008,919; Nov. 14; Sp. p. 2870; Gaz. vol. 172; p. 482.
Klein, Adolf, Vienna, Austria-Hungary. Oil-burner. No. 986,067; Mar. 7; Sp. p. 669; Gaz. vol. 164; p. 107.
Klein, Adolf, Vienna, Austria-Hungary. Oil-burner. No. 990,988; May 2; Sp. p. 340; Gaz. vol. 166; p. 58.
Klein, Charles J., New York, N. Y. Snap-switch. No. 987,239; Mar. 21; Sp. p. 3126; Gaz. vol. 164; p. 566.
Klein, Charles J., New York, N. Y. Snap-switch. No. 987,240; Mar. 21; Sp. p. 3129; Gaz. vol. 164; p. 566.
Klein, Charles J., New York, N. Y. Snap-switch. No. 987,241; Mar. 21; Sp. p. 3132; Gaz. vol. 164; p. 566.
Klein, Charles J., New York, N. Y. Snap-switch. No. 987,306; Mar. 21; Sp. p. 3281; Gaz. vol. 164; p. 589.
Klein, Charles J., New York, N. Y. Snap-switch. No. 987,632; Mar. 21; Sp. p. 3925; Gaz. vol. 164; p. 699.
Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Snap-switch. No. 985,421; Feb. 28; Sp. p. 4692; Gaz. vol. 163; p. 837.
Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Casing for lamp-sockets. No. 1,007,359; Oct. 31; Sp. p. 6170; Gaz. vol. 171; p. 1125.
Klein, Daniel, Spokane, Wash. Teat-cup. No. 980,968; Jan. 10; Sp. p. 1811; Gaz. vol. 162; p. 302.
Klein, Daniel, Spokane, Wash. Air-pump. No. 1,004,278; Sept. 26; Sp. p. 4621; Gaz. vol. 170; p. 817.
Klein, Daniel, and D. Brown, Spokane, Wash. Teat-cup. No. 1,004,279; Sept. 26; Sp. p. 4623; Gaz. vol. 170; p. 817.
Klein, Frederick. (See Paul and Klein.)
Klein, George A., and N. B. Piersall, New York, N. Y. Latch. No. 997,832; July 11; Sp. p. 2635; Gaz. vol. 168; p. 453.
Klein, George F. (See Nungesser and Klein.)
Klein, Isidore, New York, N. Y. Razor-blade stropper. No. 1,000,923; Aug. 15; Sp. p. 3668; Gaz. vol. 169; p. 658.
Klein, Jacob, New York, N. Y. Tape-measure. No. 1,011,628; Dec. 12; Sp. p. 2807; Gaz. vol. 173; p. 460.
Klein, Jacob C., *et al.* (See Moses, Mose, assignor.)
Klein, Josef, Berlin, Germany, assignor to The Carter-Crume Company, Limited, Niagara Falls, N. Y. Paper cutting and folding device. No. 1,010,437; Dec. 5; Sp. p. 67; Gaz. vol. 173; p. 14.
Klein, Louis, Strassburg, Germany. Apparatus for treating coffee-beans. No. 1,006,760; Oct. 24; Sp. p. 4832; Gaz. vol. 171; p. 860.
Klein, Max, and E. A. Seitter, Stuttgart, Germany. Calculating-machine. No. 989,367; Apr. 11; Sp. p. 2284; Gaz. vol. 165; p. 386.
Klein, Nathan, New York, N. Y. Electric taplet. No. 984,224; Feb. 14; Sp. p. 2120; Gaz. vol. 163; p. 359.
Klein, Oscar. (See Kaiser and Klein.)
Klein, Stanley, assignor to Mendel & Company, Cincinnati, Ohio. Trunk. No. 1,008,971; Nov. 14; Sp. p. 2994; Gaz. vol. 172; p. 499.
Klein, Theobald, assignor of one-half to N. Diehl, Cincinnati, Ohio. Making collars. No. 999,503; Aug. 1; Sp. p. 608; Gaz. vol. 169; p. 105.
Kleinberger, Isaac, New York, N. Y. Riding-habit. No. 995,609; June 20; Sp. p. 3317; Gaz. vol. 167; p. 584.
Kleinegger, Mary, Minneapolis, Minn. Window-guard. No. 980,535; Jan. 3; Sp. p. 784; Gaz. vol. 162; p. 125.

Kleinhans, Arthur B., Easton, Pa. Roof structure. No. 1,000,819; Aug. 15; Sp. p. 3453; Gaz. vol. 169; p. 622.
Kleinman, Herman. (See Wyers, Walter, assignor.)
Kleinman, Jacob L., New York, N. Y. Driving-gear. No. 999,037; July 25; Sp. p. 5357; Gaz. vol. 168; p. 953.
Kleinman, Jacob L., New York, N. Y. Sewing-machine. No. 999,038; July 25; Sp. p. 5359; Gaz. vol. 168; p. 954.
Kleinschmidt, Carl, Brussels, Belgium. Heating and ventilating system. No. 1,002,407; Sept. 5; Sp. p. 522; Gaz. vol. 170; p. 74.
Kleinschmidt, Hans, Berlin-Wilmersdorf, Germany. Electrical power transmission. No. 1,001,047; Aug. 22; Sp. p. 3999; Gaz. vol. 169; p. 735.
Kleinschmidt, Henry F. A., Johnstown, Pa., assignor to The Lorain Steel Company. Splice-bar for electrically-welded joints. No. 991,726; May 9; Sp. p. 1946; Gaz. vol. 166; p. 349.
Kleinschmidt, Louis H., San Diego, Cal. Apparatus for producing topographic views. No. 994,935; June 13; Sp. p. 1861; Gaz. vol. 167; p. 327.
Kleinstück, Martin. (See Schmidt, Wislicenus, and Kleinstück.)
Kleinvogel, Friedrich, Newport, Ky. Vehicle. No. 984,516; Feb. 14; Sp. p. 2726; Gaz. vol. 163; p. 457.
Klement, Wilhelm, Neu-Finkenkrug-Falkenhain, assignor to Siemens-Schuckertwerke G. m. b. H., Berlin, Germany. Explosion-proof-cartridge cut-out. No. 1,007,876; Nov. 7; Sp. p. 528; Gaz. vol. 172; p. 80.
Klemm, William J., Kansas City, Mo. Panel construction. No. 986,013; Mar. 7; Sp. p. 559; Gaz. vol. 164; p. 89.
Klemm, William J., Kansas City, Mo. Window-sash. No. 1,000,094; Aug. 8; Sp. p. 1861; Gaz. vol. 169; p. 336.
Klenk, Gottlieb, Defiance, Ohio, assignor to The Defiance Pressed Steel Company. Sheet-metal box. No. 1,010,772; Dec. 5; Sp. p. 842; Gaz. vol. 173; p. 131.
Klenk, Ludwig, Frankfort-on-the-Main, Germany. Pantograph. No. 982,608; Jan. 24; Sp. p. 5347; Gaz. vol. 162; p. 921.
Klenke, Fred H., Ashton, Ill. Disk-sharpening machine. No. 993,325; May 23; Sp. p. 5332; Gaz. vol. 166; p. 955.
Klepfer, George M., Milton, Pa. Cutting-machine. No. 993,077; May 23; Sp. p. 4824; Gaz. vol. 166; p. 876.
Klepke, Robert, Blasewitz, near Dresden, Germany. Chain-grate. No. 996,095; June 27; Sp. p. 4352; Gaz. vol. 167; p. 788.
Kleppin, Paul J. G., *et al.* (See Farmer, John P., assignor.)
Kletzsch, Alvin P., Milwaukee, Wis. Ventilation system for soil and waste pipes. No. 992,882; May 23; Sp. p. 4400; Gaz. vol. 166; p. 807.
Klick, Victor S., Columbus, Ohio. Churn. No. 994,469; June 6; Sp. p. 745; Gaz. vol. 167; p. 128.
Klin, Agnes M., Dayton, Ohio. Folding paper vessel. No. 992,210; May 16; Sp. p. 2923; Gaz. vol. 166; p. 544.
Klinckert, Wilhelm, Berlin, Germany, assignor to General Electric Company. Electrical measuring instrument. No. 1,008,549; Nov. 14; Sp. p. 2080; Gaz. vol. 172; p. 356.
Kline, George L., St. Louis, Mo. Device for splicing films. No. 1,007,034; Oct. 24; Sp. p. 5443; Gaz. vol. 171; p. 954.
Kline, John A., Reading, Pa. Railway-rail. No. 1,011,811; Dec. 12; Sp. p. 3168; Gaz. vol. 173; p. 529.
Kline, John B., Milton, assignor to H. B. Hogg, Parkersburg, W. Va. Swab. No. 1,004,280; Sept. 26; Sp. p. 4625; Gaz. vol. 170; p. 817.
Kline, John P., Brooklyn, Mich. Rubber plate for shoes. No. 982,278; Jan. 24; Sp. p. 4672; Gaz. vol. 162; p. 808.
Kline, Joseph. (See Joss and Kline.)
Kline Invalid Bed Company. (See Kline, Nick W., assignor.)
Kline, Nick W., Ventura, assignor to Kline Invalid Bed Company, Los Angeles, Cal. Heat-rest. No. 1,002,589; Sept. 5; Sp. p. 910; Gaz. vol. 170; p. 135.
Kline, William T., Mifflinburg, Pa. Tobacco-pipe. No. 1,003,914; Sept. 19; Sp. p. 3725; Gaz. vol. 170; p. 664.
Kling, Frederick E., Youngstown, Ohio. Measuring and mold-filling box. No. 1,009,153; Nov. 21; Sp. p. 3376; Gaz. vol. 172; p. 597.
Kling, Frederick E., Youngstown, Ohio. Wall construction. No. 1,009,754; Nov. 28; Sp. p. 4706; Gaz. vol. 172; p. 853.
Kling, Louis A., Elizabeth, N. J., assignor to The J. G. Brill Company, Philadelphia, Pa. Step-operating mechanism for cars. No. 1,011,812; Dec. 12; Sp. p. 3170; Gaz. vol. 173; p. 530.
Klinger, Francis, and W. Retallick, Williamstown, Pa. Railway-tie. No. 1,011,064; Dec. 5; Sp. p. 1451; Gaz. vol. 173; p. 230.
Klinger, Frederick, San Francisco, Cal. Fish-grapple. No. 1,004,577; Oct. 3; Sp. p. 58; Gaz. vol. 171; p. 12.
Klingler, Albert E., Elkhart, Ind. Trombone-lock. No. 1,006,229; Oct. 17; Sp. p. 3661; Gaz. vol. 171; p. 645.
Klingler, Frank, assignor of one-half to R. Neal, Akron, Ohio. Shredding-machine. No. 1,007,577; Oct. 31; Sp. p. 6657; Gaz. vol. 171; p. 1199.
Klint, Anton H., San Francisco, Cal. Life-saving belt. No. 998,698; July 25; Sp. p. 4568; Gaz. vol. 168; p. 832.
Klipfel, Thomas, assignor to The Union Mattress Company, Chicago, Ill. Wire mattress. No. 1,008,040; Nov. 7; Sp. p. 849; Gaz vol. 172; p. 135.

Klocke, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Automatic clutch. No. 991,785; May 9; Sp. p. 2040; Gaz. vol. 166; p. 367.
Klocke, William, and J. E. Dobson, New York, assignors to E. W. Bliss Company, Brooklyn, N. Y. Automatic clutch. No. 991,786; May 9; Sp. p. 2043; Gaz. vol. 166; p. 368.
Klocke, William, and F. Orton, New York, assignors to E. W. Bliss Company, Brooklyn, N. Y. Hydromechanical drawing-press. No. 998,968; July 25; Sp. p. 5204; Gaz. vol. 168; p. 929.
Klocke, William, and F. Orton, New York, assignors to E. W. Bliss Company, Brooklyn, N. Y. Toggle drawing-press. No. 998,969; July 25; Sp. p. 5207; Gaz. vol. 168; p. 929.
Klocke, William H., Brooklyn, N. Y., assignor to Kauffman Kase Kompany. Bottle-crate. No. 1,010,269; Nov. 28; Sp. p. 5732; Gaz. vol. 172; p. 1026.
Kloeb, William R., assignor of one-half to A. J. Pater, Hamilton, Ohio. Gas-heater. No. 991,727; May 9; Sp. p. 1947; Gaz. vol. 166; p. 349.
Klohs, Sam F., Chicago, Ill. Car-coupling. No. 987,997; Mar. 28; Sp. p. 4792; Gaz. vol. 164; p. 854.
Klopping, Adolph C., assignor of one-half to The Toledo Parlor Furniture Company, Toledo, Ohio. Bed-davenport. No. 990,145; Apr. 18; Sp. p. 3950; Gaz. vol. 165; p. 682.
Klopping, Adolph C., assignor of one-half to The Toledo Parlor Furniture Company, Toledo, Ohio. Sofa-davenport. No. 990,146; Apr. 18; Sp. p. 3954; Gaz. vol. 165; p. 682.
Klopping, Adolph C., assignor of one-half to The Toledo Parlor Furniture Company, Toledo, Ohio. Sofa-davenport. No. 992,674; May 16; Sp. p. 3947; Gaz. vol. 166; p. 704.
Klopping, Adolph C., assignor of one-half to The Toledo Parlor Furniture Company, Toledo, Ohio. Sofa-bed. No. 993,691; May 30; Sp. p. 6166; Gaz. vol. 166; p. 1116.
Klöris, Franz, Leipzig, Germany. Device for turning over the leaves of books and the like. No. 996,347; June 27; Sp. p. 4962; Gaz. vol. 167; p. 873.
Kloss, Athniel, Williston, N. D. Photographic-printing apparatus. No. 1,011,968; Dec. 19; Sp. p. 3532; Gaz. vol. 173; p. 618.
Kloster, Charles H., and F. G. Blatter, Montreal, Quebec, Canada. Ornamental glass-work. No. 999,112; July 25; Sp. p. 5490; Gaz. vol. 168; p. 977.
Klotz, Nickolas, Niagara, assignor of one-half to J. H. Magoris, Larimore, N. D. Roller for sliding doors. No. 988,880; Apr. 4; Sp. p. 1241; Gaz. vol. 165; p. 198.
Klotz, Robert, Chicago, Ill. Advertising device. No. 1,004,660; Oct. 3; Sp. p. 232; Gaz. vol. 171; p. 41.
Klotz, Waldemar C. (See Eberbach, Oscar A., assignor.)
Kluge, Paul, Drochow, Germany. Machine for cutting round rods. No. 1,006,102; Oct. 17; Sp. p. 3350; Gaz. vol. 171; p. 598.
Klugel, Harry T., North Emporia, Va. Sanitary garbage-can. No. 999,374; Aug. 1; Sp. p. 364; Gaz. vol. 169; p. 64.
Klugh, Paul B., assignor to The Cable Company, Chicago, Ill. Mechanism for disposing and concealing musical-instrument pedals. No. 1,002,282; Sept. 5; Sp. p. 218; Gaz. vol. 170; p. 29.
Klugh, Paul B., assignor to The Cable Company, Chicago, Ill. Tracker device for sheet-controlled instruments. No. 1,007,210; Oct. 31; Sp. p. 5872; Gaz. vol. 171; p. 1072.
Klugh, Paul B., assignor to The Cable Company, Chicago, Ill. Mechanism for arranging musical-instrument parts. No. 1,011,138; Dec. 5; Sp. p. 1620; Gaz. vol. 173; p. 257.
Knaack, G. E. (See Frambach and Corrington, assignors.)
Knabbe, Diedrich. (See Gardiner, Anwyl O., assignor.)
Knabe, Ernest J., Jr., Cincinnati, Ohio. String-plate for pianos. No. 1,008,161; Nov. 7; Sp. p. 1090; Gaz. vol. 172; p. 178.
Knape, John, Grand Rapids, Mich. Adjustable bracket. No. 982,279; Jan. 24; Sp. p. 4673; Gaz. vol. 162; p. 808.
Knape, John, Grand Rapids, Mich. Adjustable bracket. No. 1,008,720; Nov. 14; Sp. p. 2467; Gaz. vol. 172; p. 417.
Knapp, Adam B., *et al.* (See Stein, Georg V., assignor.)
Knapp, Alfred H., East Peoria, Ill., assignor to American Fog Signal Company, Pittsburg, Pa. Railway-torpedo. No. 999,113; July 25; Sp. p. 5491; Gaz. vol. 168; p. 977.
Knapp, Annie L. (See Knapp, William B., assignor.)
Knapp, Charles E., deceased; F. E. Knapp, Brooklyn, N. Y., executrix. Dress-weight. No. 1,004,439; Sept. 26; Sp. p. 4956; Gaz. vol. 170; p. 872.
Knapp, David R., Philadelphia, and H. E. Cade, Pencoyd, Pa. Boiler-feed-water regulator. No. 999,317; Aug. 1; Sp. p. 233; Gaz. vol. 169; p. 44.
Knapp, Edgar J., and E. D. McLaughlin, Milwaukee, Wis. Storage battery. No. 990,274; Apr. 25; Sp. p. 4256; Gaz. vol. 165; p. 759.
Knapp, Edwin L., and B. F. Ronneberger, Anacortes, Wash. Egg-beater holder. No. 1,005,847; Oct. 17; Sp. p. 2796; Gaz. vol. 171; p. 509.
Knapp, Frances E., administratrix. (See Knapp, Charles E.)

Alphabetical list of patentees—Continued.

Knapp, Frank and G. B., Kansas City, Mo. Nail leather-heading machine. No. 994,008; May 30; Sp. p. 6805; Gaz. vol. 166; p. 1222.
Knapp, Frank A., Newark, N. J. Grinding-machine. No. 988,577; Apr. 4; Sp. p. 620; Gaz. vol. 165; p. 100.
Knapp, Frederick W. (See Wilson and Knapp.)
Knapp, George B. (See Knapp, Frank and G. B.)
Knapp, George W., assignor to National Enameling and Stamping Company, Baltimore, Md. Electrically welding lapped sheet metal. No. 993,307; May 23; Sp. p. 5286; Gaz. vol. 166; p. 948.
Knapp, George W., assignor to National Enameling and Stamping Company, Baltimore, Md. Handle for covers of vessels. No. 1,005,557; Oct. 10; Sp. p. 2165; Gaz. vol. 171; p. 377.
Knapp, Heinrich, Weimar, Germany. Clutch. No. 986,923; Mar. 14; Sp. p. 2473; Gaz. vol. 164; p. 428.
Knapp, Heinrich, Weimar, Germany. Acetylene-gas generator. No. 993,078; May 23; Sp. p. 4826; Gaz. vol. 166; p. 876.
Knapp, Heinrich, Weimar, Germany. Liquid-seal back-pressure valve. No. 994,645; June 6; Sp. p. 1148; Gaz. vol. 167; p. 188.
Knapp, Heinrich, Weimar, Germany. Burner for cutting metal or for autogenous welding. No. 1,000,018; Aug. 8; Sp. p. 1654; Gaz. vol. 169; p. 310.
Knapp, Heinrich, Weimar, Germany. Purifying apparatus for acetylene gas. No. 1,004,661; Oct. 3; Sp. p. 234; Gaz. vol. 171; p. 41.
Knapp, Isaac N., Ardmore, assignor to The United Gas Improvement Company, Philadelphia, Pa. Grate for water-gas and other apparatus. No. 991,728; May 9; Sp. p. 1948; Gaz. vol. 166; p. 350.
Knapp, John C., Jr., Philadelphia, Pa. Pipe-mold. No. 986,068; Mar. 7; Sp. p. 670; Gaz. vol. 164; p. 107.
Knapp, John E. (See Payne and Knapp.)
Knapp, John H., Pasadena, Cal. Strainer-holder. No. 984,225; Feb. 14; Sp. p. 2121; Gaz. vol. 163; p. 360.
Knapp, Lee, Denver, Colo., assignor, by mesne assignments, of one-half to The Fawkes International Rubber Company and one-half to The Dayton Rubber Manufacturing Co., Dayton, Ohio. Cushion-tire. No. 982,968; Jan. 31; Sp. p. 6126; Gaz. vol. 162; p. 1070.
Knapp, Moses A., Oakland, Cal. Rock-drill. No. 1,006,661; Oct. 24; Sp. p. 4636; Gaz. vol. 171; p. 827.
Knapp, Theron L., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Paper-carriage for type-writing machines. No. 981,927; Jan. 17; Sp. p. 3921; Gaz. vol. 162; p. 658.
Knapp, Theron L., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Bracer mechanism for type-writer shift-frames. No. 983,557; Feb. 7; Sp. p. 666; Gaz. vol. 163; p. 102.
Knapp, Theron L., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Tabulating mechanism for type-writing machines. No. 984,934; Feb. 21; Sp. p. 3619; Gaz. vol. 163; p. 638.
Knapp, Theron L., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Type-writing machine. No. 989,851; Apr. 18; Sp. p. 3350; Gaz. vol. 165; p. 584.
Knapp, William B., assignor to A. L. Knapp, Stoneham, Mass. Shock-absorber. No. 982,008; Jan. 17; Sp. p. 4113; Gaz. vol. 162; p. 686.
Knapp, William B., Stoneham, Mass., assignor to C. W. Fairbank, trustee, New York, N. Y. Signal. No. 997,833; July 11; Sp. p. 2636; Gaz. vol. 168; p. 453.
Knappe, Gustav, Stettin, Germany. Window. No. 1,009,978; Nov. 28; Sp. p. 5151; Gaz. vol. 172; p. 927.
Knappenberger, Alexander, Siegfried, assignor to J. J. Kocher and J. Knappenberger, Northampton, Pa. Crushing-mill. No. 1,003,362; Sept. 12; Sp. p. 2570; Gaz. vol. 170; p. 442.
Knappenberger, John, *et al.* (See Knappenberger, Alexander, assignor.)
Knaster, Leon, West Hoboken, N. J. Secret cabinet. No. 994,009; May 30; Sp. p. 6809; Gaz. vol. 166; p. 1222.
Knaus, August. (See Happich and Knaus.)
Knaus, Gottfrid, assignor to Sellers Manufacturing Company, Chicago, Ill. Machine for cutting metal rolls. No. 980,969; Jan. 10; Sp. p. 1812; Gaz. vol. 162; p. 302.
Knaus, Gottfrid, assignor to Sellers Manufacturing Company, Chicago, Ill. Machine for cutting metal rolls. No. 1,000,415; Aug. 15; Sp. p. 2569; Gaz. vol. 169; p. 478.
Knaus, Gottfrid, assignor to Sellers Manufacturing Company, Chicago, Ill. Machine for cutting metal rolls. No. 1,000,681; Aug. 15; Sp. p. 3165; Gaz. vol. 169; p. 573.
Knaus, Lucius A., Chicago, Ill. Consuming-receptacle for paper, &c. No. 999,039; July 25; Sp. p. 5362; Gaz. vol. 168; p. 954.
Knautz, Henry W., Chicago, Ill. Display device. No. 999,232; Aug. 1; Sp. p. 76; Gaz. vol. 169; p. 15.
Knautz, Henry W., Chicago, Ill. Display device. No. 1,005,558; Oct. 10; Sp. p. 2167; Gaz. vol. 171; p. 377.
Knautz, Henry W., Chicago, Ill. Loose-leaf binding. No. 1,005,559; Oct. 10; Sp. p. 2168; Gaz. vol. 171; p. 378.
Knautz, Henry W., Chicago, Ill Display device. No. 1,011,446; Dec. 12; Sp. p. 2343; Gaz. vol. 173; p. 401.
Knautz, Henry W., Chicago, Ill. Display device. No. 1,011,447; Dec. 12; Sp. p. 2344; Gaz. vol. 173; p. 401.
Knebelkamp, Walter C. (See Lange and Knebelkamp.)
Knecht, Frank, Lancaster, Ohio. Ice motor-cycle. No. 1,010,389; Nov. 28; Sp. p. 6007; Gaz. vol. 172; p. 1065.
Knecht, Johann J., Chemnitz, Germany. Card-cutting machine. No. 985,812; Mar. 7; Sp. p. 87; Gaz. vol. 164; p. 19.
Knecht, Johann J., Chemnitz, Germany. Jacquard pattern-gear for embroidering-machines. No. 1,005,436; Oct. 10; Sp. p. 1887; Gaz. vol. 171; p. 334.
Knecht, Johann J., assignor to Maschinenfabrik Kappel (Actien-Gesellschaft), Chemnitz-Kappel, Germany. Embroidering-machine. No. 1,000,180; Aug. 8; Sp. p. 2053; Gaz. vol. 169; p. 365.
Knee, Lucious C., assignor of one-half to A. Clements, Philadelphia, Pa. Camera-shutters and means for operating the same. No. 1,001,048; Aug. 22; Sp. p. 4004; Gaz. vol. 169; p. 736.
Kneedler, John D., assignor of two-fifths to B. Couch and one-fifth to N. T. Hanson, Sioux City, Iowa. Road-bed equipment. No. 1,004,882; Oct. 3; Sp. p. 744; Gaz. vol. 171; p. 119.
Kneeland, Elbert W. (See Olson, Swan P., assignor.)
Kneeland, Matt, Diamond, assignor of one-half to S. B. Varner and W. G. Woodcock, Granby, Mo. Pick. No. 1,010,390; Nov. 28; Sp. p. 6008; Gaz. vol. 172; p. 1065.
Kneen, James, Oakland, Cal. Disinfecting device. No. 985,350; Feb. 28; Sp. p. 4535; Gaz. vol. 163; p. 814.
Kneen, James, Oakland, Cal. Water-filter. No. 986,998; Mar. 14; Sp. p. 2610; Gaz. vol. 164; p. 451.
Kneisler, James S. (See Boyle, James L., assignor.)
Knepper, George E., Altoona, Pa. Car-roof. No. 984,092; Feb. 14; Sp. p. 1833; Gaz. vol. 163; p. 315.
Knickerbacker, John, Troy, assignor to Eddy Valve Company, Waterford, N. Y. Fire-hydrant. No. 990,989; May 2; Sp. p. 342; Gaz. vol. 166; p. 59.
Knickerbacker, John, Troy, assignor to Eddy Valve Company, Waterford, N. Y. Fire-hydrant. No. 990,990; May 2; Sp. p. 343; Gaz. vol. 166; p. 59.
Knickerbocker, Burton D., Chicago, Ill. Foldable bath-mat. No. 984,765; Feb. 21; Sp. p. 3298; Gaz. vol. 163; p. 581.
Knickerbocker, Burton D., Chicago, Ill. Massage-brush. No. 1,012,653; Dec. 26; Sp. p. 5000; Gaz. vol. 173; p. 897.
Knieriemen, George, Atco, N. J. Brush-holder. No. 999,658; Aug. 1; Sp. p. 905; Gaz. vol. 169; p. 158.
Kniffen, Hadley C., Albany, N. Y. Spatula. No. 990,748; Apr. 25; Sp. p. 5350; Gaz. vol. 165; p. 923.
Knight, Albert B., Fairmont, W. Va. Machine for finishing tumblers or other articles. No. 1,009,249; Nov. 21; Sp. p. 3627; Gaz. vol. 172; p. 633.
Knight, Albert H., Cleveland, Ohio. Drill-holder. No. 988,355; Apr. 4; Sp. p. 130; Gaz. vol. 165; p. 24.
Knight, Albert H., Cleveland, Ohio. Making holders for drills or the like. No. 1,007,360; Oct. 31; Sp. p. 6172; Gaz. vol. 171; p. 1125.
Knight, Amos L. (See Indahl and Knight.)
Knight, Amos L., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Low-quad type-mold equipment. No. 980,970; Jan. 10; Sp. p. 1815; Gaz. vol. 162; p. 302.
Knight, Arthur S., Newark, N. J., assignor to Westinghouse Lamp Company. Incandescent lamp. No. 985,422; Feb. 28; Sp. p. 4697; Gaz. vol. 163; p. 837.
Knight, Charles A., Nicholasville, Ky. Toy. No. 982,609; Jan. 24; Sp. p. 5349; Gaz. vol. 162; p. 922.
Knight, Charles A., Nicholasville, assignor of one-half to K. C. Loughlin and one-fourth to S. D. Myers, High Bridge, Ky. Window-curtain hanger. No. 982,610; Jan. 24; Sp. p. 5350; Gaz. vol. 162; p. 922.
Knight, Charles D., Schenectady, N. Y., assignor to General Electric Company. Automatic motor-starter. No. 1,003,915; Sept. 19; Sp. p. 3727; Gaz. vol. 170; p. 664.
Knight, Charles D., P. H. Zimmer, and J. B. Ford, Schenectady, N. Y., assignors to General Electric Company. Resistance unit. No. 1,010,641; Dec. 5; Sp. p. 539; Gaz. vol. 173; p. 85.
Knight-Conlon Pulverizing Mill Co. (See Knight, John J., assignor.)
Knight, Earle R., Norwood, Ohio, assignor to Allis-Chalmers Company. Induction-motor. No. 995,469; June 20; Sp. p. 2991; Gaz. vol. 167; p. 534.
Knight, Edward M., New York, N. Y. Filter. No. 983,625; Feb. 7; Sp. p. 792; Gaz. vol. 163; p. 126.
Knight, George H., St. Johnsbury, Vt. Door-hanger. No. 1,003,274; Sept. 12; Sp. p. 2399; Gaz. vol. 170; p. 412.
Knight, John J., Alameda, assignor to Knight-Conlon Pulverizing Mill Co., San Francisco, Cal. Ore-pulverizer. No. 983,067; Jan. 31; Sp. p. 6358; Gaz. vol. 162; p. 1105.
Knight, Jonathan L., Kansas City, Mo. Hydraulic engine. No. 990,364; Apr. 25; Sp. p. 4465; Gaz. vol. 165; p. 790.
Knight, Joseph, Holyhead, Anglesey, England. Turbine. No. 980,644; Jan. 3; Sp. p. 997; Gaz. vol. 162; p. 162.
Knight, Levi J., Bradentown, Fla. Harrow. No. 987,887; Mar. 28; Sp. p. 4517; Gaz. vol. 164; p. 816.

Knight, Moses G., and C. H. Jardine, Lake Charles, La. Self-locking buckle. No. 982,433; Jan. 24; Sp. p. 4983; Gaz. vol. 162; p. 862.
Knight, Sherwood S., assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Double body-bolster. No. 997,394; July 11; Sp. p. 1665; Gaz. vol. 168; p. 302.
Knight, Sherwood S., assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Car-truck. No. 997,395; July 11; Sp. p. 1666; Gaz. vol. 168; p. 302.
Knight, Sherwood S., assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Car-truck. No. 1,001,653; Aug. 29; Sp. p. 5226; Gaz. vol. 169; p. 969.
Knight, Sherwood S., Webster Groves, assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Making car-wheels, &c. No. 1,005,230; Oct. 10; Sp. p. 1419; Gaz. vol. 171; p. 260.
Knight, Sherwood S., Webster Groves, assignor to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Pressing and rolling machine. No. 1,005,231; Oct. 10; Sp. p. 1422; Gaz. vol. 171; p. 260.
Knight, Stephen H. (See Mitchell, Robert, assignor.)
Knight, William C., trustee. (See Harley, John S., assignor.)
Knight, William H., East Cleveland, Ohio. Gas-meter. No. 987,379; Mar. 21; Sp. p. 3421; Gaz. vol. 164; p. 613.
Knights, George L., Amesbury, Mass. Frame for saw-tables. No. 981,431; Jan. 10; Sp. p. 2884; Gaz. vol. 162; p. 465.
Knights, William R., Minneapolis, Minn. Hot-air furnace. No. 988,356; Apr. 4; Sp. p. 132; Gaz. vol. 165; p. 24.
Knipe, Oliver C., Palo Alto, Cal. Ball-bearing. No. 998,099; July 18; Sp. p. 3264; Gaz. vol. 168; p. 589.
Knipe, Oliver C., Palo Alto, Cal. Welding sheet metal. No. 1,001,049; Aug. 22; Sp. p. 4006; Gaz. vol. 169; p. 736.
Knipe, Oliver C., Palo Alto, assignor to A. Harris, Merced, Cal. Portable heater. No. 991,729; May 9; Sp. p. 1950; Gaz. vol. 166; p. 350.
Knipe, Oliver C., Washington, D. C. Making ball-bearings. No. 1,006,103; Oct. 17; Sp. p. 3353; Gaz. vol. 171; p. 598.
Knipple, Harry J., Johnstown, Pa. Automobile-lamp. No. 982,142; Jan. 17; Sp. p. 4367; Gaz. vol. 162; p. 730.
Knips, Christoph, and E. Ey, Charlottenburg, assignors to Siemens & Halske A. G., Berlin, Germany. Apparatus for generating ozone. No. 983,907; Feb. 14; Sp. p. 1428; Gaz. vol. 163; p. 252.
Kniss, John C., Louisville, Ky. Preparation of foods for the market. No. 1,008,920; Nov. 14; Sp. p. 2873; Gaz. vol. 172; p. 483.
Knistrom, August, Binghamton, assignor to Bundy Manufacturing Company, Endicott, N. Y. Clutch for power-driven calculating-machines. No. 999,659; Aug. 1; Sp. p. 906; Gaz. vol. 169; p. 158.
Knobbs, Charles H., assignor to The Knobbs Company, Elizabeth, N. J. Tension device for car-trucks. No. 995,470; June 20; Sp. p. 2993; Gaz. vol. 167; p. 534.
Knobbs, Company, The. (See Knobbs, Charles H., assignor.)
Knobel, Hilarius, Zurich, Switzerland. Means for glazing roofs and the like without putty. No. 992,003; May 9; Sp. p. 2485; Gaz. vol. 166; p. 442.
Knoblauch, Henry, Harriman, Tenn. Window-pane holder. No. 987,076; Mar. 14; Sp. p. 2752; Gaz. vol. 164; p. 476.
Knoblock, Henry P., Pittsburgh, Pa. Toaster. No. 1,011,813; Dec. 12; Sp. p. 3172; Gaz. vol. 173; p. 530.
Knoche, Fred A., Fort Wayne, Ind. Barrel-skid and drain-pan. No. 1,002,704; Sept. 5; Sp. p. 1158; Gaz. vol. 170; p. 175.
Knochenhauer, Gustav, Schaala, near Rudolstadt, and C. Beuthe, Rudolstadt, Germany. Tobacco-pipe. No. 1,001,414; Aug. 22; Sp. p. 4771; Gaz. vol. 169; p. 859.
Knoder, Will E., Evanston, Wyo. Clothes-line prop. No. 989,368; Apr. 11; Sp. p. 2285; Gaz. vol. 165; p. 386.
Knoderer, Levi F., Columbus, Ohio. Gas-burner. No. 981,573; Jan. 10; Sp. p. 3147; Gaz. vol. 162; p. 513.
Knoener, Hermann A. (See Smith and Knoener.)
Knoerzer, Otto, assignor to Champion Potato Machinery Company, Hammond, Ind. Beet-topper for beet-harvesters. No. 998,851; July 25; Sp. p. 4929; Gaz. vol. 168; p. 886.
Knoevenagel, Emil, Heidelberg, Germany. Treatment of acetyl cellulose to enhance its elasticity and its power of absorption for dyestuffs. No. 981,574; Jan. 10; Sp. p. 3148; Gaz. vol. 162; p. 514.
Knoevenagel, Emil, Heidelberg, Germany. Dyeing acetyl cellulose. No. 1,002,408; Sept. 5; Sp. p. 523; Gaz. vol. 170; p. 74.
Knoke, Herman A., Chicago, Ill. Desk attachment for chairs. No. 994,410; June 6; Sp. p. 645; Gaz. vol. 167; p. 110.
Knoll and Company. (See Tambach, Rudolf, assignor.)
Knoll and Company. (See Vieth, Hermann, assignor.)
Knoll, Rudolf, assignor to Gesellschaft zur Verwertung der Hohlkörperpatente Dr. Knoll G. m. b. H., Vienna, Austria-Hungary. Manufacture of hollow bodies and especially of head-coverings from fibrous material. No. 993,605; May 30; Sp. p. 5957; Gaz. vol. 166; p. 1084.
Knollenberg, William E., assignor of forty one-hundredths to A. Kurtz, St. Louis, Mo. Folding ladder. No. 1,004,883; Oct. 3; Sp. p. 746; Gaz. vol. 171; p. 119.
Knoph, L. A. O. (See Curtis, Elon C., assignor.)
Knorre, Eugene, St. Petersburg, Russia. System of underwater foundations for great depths. No. 1,010,642; Dec. 5; Sp. p. 541; Gaz. vol. 173; p. 85.
Knötgen, Mathias, Cologne, Germany. Automatic firearm with stationary barrel. No. 993,175; May 23; Sp. p. 5027; Gaz. vol. 166; p. 908.
Knothe, Charles H. (See Johnson and Knothe.)
Knott, Eustace R., assignor to E. R. Knott Machine Company, Boston, Mass. Wrapping-machine. No. 993,255; May 23; Sp. p. 5186; Gaz. vol. 166; p. 932.
Knott, Frank W., assignor to The Winkley Company, Detroit, Mich. Distributing-pump. No. 995,877; June 20; Sp. p. 3904; Gaz. vol. 167; p. 678.
Knott & Harker Company. (See Lithgow and Sherwood, assignors.)
Knott, Levi, Altoona, Pa. Metallic tie and rail-joint. No. 990,199; Apr. 18; Sp. p. 4078; Gaz. vol. 165; p. 701.
Knott, Levi, Altoona, Pa. Weather-strip. No. 998,346; July 18; Sp. p. 3823; Gaz. vol. 168; p. 679.
Knous, Franklin F., assignor to Winchester Repeating Arms Company, New Haven, Conn. Repeating fire-arm. No. 998,347; July 18; Sp. p. 3824; Gaz. vol. 168; p. 679.
Knowles, Charles S., *et al.* (See Hirst, Harry R., assignor.)
Knowles, David L., Z. A. Baird, and C. Heselden, Danville, Ill. Controlling device for valve-closures. No. 1,011,814; Dec. 12; Sp. p. 3174; Gaz. vol. 173; p. 531.
Knowles, Edwin B., *et al.* (See Curry, Alfred A., assignor.)
Knowles, Frederick W., and G. W. Inman, Thornhill Lees, near Dewsbury, England. Machine for manufacturing glass bottles, jars, and the like. No. 1,003,471; Sept. 19; Sp. p. 2797; Gaz. vol. 170; p. 512.
Knowles, Jerome, Newport News, Va. Aerial toy. No. 983,147; Jan. 31; Sp. p. 6500; Gaz. vol. 162; p. 1130.
Knowles, Louis T., Minneapolis, Minn. Jointed wheel-tread. No. 1,009,154; Nov. 21; Sp. p. 3377; Gaz. vol. 172; p. 598.
Knowles, Silas A. (See Leyner and Knowles.)
Knowles, Wilson M., Brooklyn, N. Y. Slicing-machine. No. 1,008,275; Nov. 7; Sp. p. 1358; Gaz. vol. 172; p. 222.
Knowlton Brothers. (See Howes, Willis H., assignor.)
Knowlton, George L., Philadelphia, Pa. Signal for automobiles or other vehicles. No. 1,006,662; Oct. 24; Sp. p. 4638; Gaz. vol. 171; p. 827.
Knox, Arthur D. (See Wood and Knox.)
Knox, David M., St. Louis, Mo., assignor of one-half to W. J. Knox, Dubois, Pa. Brake-beam safety-support. No. 999,801; Aug. 8; Sp. p. 1206; Gaz. vol. 169; p. 237.
Knox, George, assignor of one-half to J. L. Baker, Omaha, Nebr. Automatic expansion-valve. No. 1,005,716; Oct. 10; Sp. p. 2514; Gaz. vol. 171; p. 432.
Knox, George W., Chicago, Ill. Rail-bond. No. 995,685; June 20; Sp. p. 3472; Gaz. vol. 167; p. 612.
Knox, James R., Richmond, Va. Truss. No. 1,005,043; Oct. 3; Sp. p. 1035; Gaz. vol. 171; p. 173.
Knox, Jessie L., Tolar, Tex. Ant-trap. No. 1,002,919; Sept. 12; Sp. p. 1616; Gaz. vol. 170; p. 288.
Knox, John E. (See Warren and Knox.)
Knox, Luther L., Avalon, and E. B. Tyler, Wilkinsburg; said Knox assignor to said Tyler, Pittsburgh, Pa. Heat-distributing system. No. 1,005,717; Oct. 10; Sp. p. 2515; Gaz. vol. 171; p. 432.
Knox, William J. (See Knox, David M., assignor.)
Knuckles, Jacob C., Ferndale, Ky. Combined auger and reamer. No. 998,534; July 18; Sp. p. 4192; Gaz. vol. 168; p. 743.
Knudsen, Charles L., New York, N. Y., assignor to R. H. Howard, Yeadon, Pa. Sputum-cup. No. 982,211; Jan. 17; Sp. p. 4495; Gaz. vol. 162; p. 754.
Knudsen, Jorgen, Racine, Wis. Motor-plow. No. 1,009,073; Nov. 21; Sp. p. 3225; Gaz. vol. 172; p. 572.
Knutson, Alfred W. (See Jenks and Knutson.)
Knutson, John, *et al.* (See Halling, Charles O., assignor.)
Kny-Scheerer Company. (See Baumeister, Leonhard, assignor.)
Kny-Scheerer Company, The. (See Blum, Eugen, assignor.)
Knÿ, Wilhelm, Bodenbach-on-the-Elbe, Austria-Hungary. Sled. No. 1,007,361; Oct. 31; Sp. p. 6174; Gaz. vol. 171; p. 1125.
Kober, Fritz, Suhl, Germany. Hair cutting and shearing machine. No. 994,470; June 6; Sp. p. 746; Gaz. vol. 167; p. 128.
Kobert, Frank P., Amityville, N. Y., assignor of one-half to B. Barnes, New Haven, Conn. Railway-spike. No. 998,781; July 25; Sp. p. 4771; Gaz. vol. 168; p. 862.
Kobler, Fremont, Chihuahua, Mexico. Unloading attachment for cars. No. 990,147; Apr. 18; Sp. p. 3957; Gaz. vol. 165; p. 683.
Kobler, Victor, assignor to Firm of A. Saurer, Rorschach, Switzerland. Needle-thread-guiding device for shuttle embroidery-machines. No. 1,008,650; Nov. 14; Sp. p. 2327; Gaz. vol. 172; p. 393.
Kobzy, Stephan, East Pittsburg, Pa. Book-holder. No. 992,509; May 16; Sp. p. 3608; Gaz. vol. 166; p. 648.

Koch, Adolf, Remscheid-Vieringhausen, Germany. Drop-hammer. No. 994,936; June 13; Sp. p. 1863; Gaz. vol. 167; p. 327.
Koch, Carrie, Pevely, Mo. Fastener. No. 995,686; June 20; Sp. p. 3474; Gaz. vol. 167; p. 612.
Koch, Frank, Saginaw, Mich. Reversible plow. No. 1,002,283; Sept. 5; Sp. p. 222; Gaz. vol. 170; p. 29.
Koch, George, and J. A. Gates, Detroit, Mich. Vehicle-wheel. No. 1,002,705; Sept. 5; Sp. p. 1160; Gaz. vol. 170; p. 175.
Koch, John F., assignor of one-fourth to W. H. Kuhns and one-fourth to R. E. Peters, Wescosville, Pa. Locking spigot. No. 998,100; July 18; Sp. p. 3265; Gaz. vol. 168; p. 589.
Koch, Leonard, assignor of one-third to L. A. Brown and one-third to J. W. Walls, Bisbee, Ariz. Automatically-operated valve. No. 1,005,044; Oct. 3; Sp. p. 1036; Gaz. vol. 171; p. 173.
Koch, Max, Ratingen, Germany. Rolling-mill for metal tubes. No. 984,569; Feb. 21; Sp. p. 2868; Gaz. vol. 163; p. 511.
Koch, Norbert, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun-carriage. No. 980,645; Jan. 3; Sp. p. 1001; Gaz. vol. 162; p. 163.
Koch, Norbert, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun-carriage. No. 985,179; Feb. 28; Sp. p. 4159; Gaz. vol. 163; p. 756.
Koch, Norbert, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Elevating mechanism for guns. No. 988,641; Apr. 4; Sp. p. 758; Gaz. vol. 165; p. 121.
Koch, Paul W. (See Richheimer and Koch.)
Kocher, John J., *et al.* (See Knappenberger, Alexander, assignor.)
Köchling, Conrad, Hagen, Westphalia, assignor to "Vulkan" Joint-Stock Company, Cologne-Ehrenfeld, Germany. Molding-machine. No. 990,880; May 2; Sp. p. 117; Gaz. vol. 166; p. 22.
Kocsis, Julius. (See Pahola, József, assignor.)
Koeb, Emil, and R. P. Thompson, Springfield, Ohio. Combined mop head and wringer. No. 985,180; Feb. 28; Sp. p. 4162; Gaz. vol. 163; p. 757.
Koeb, Emil, Leipsic, and R. P. Thompson, Springfield, Ohio. Automobile. No. 995,155; June 13; Sp. p. 2315; Gaz. vol. 167; p. 401.
Koechlin, Albert G., assignor to Spinnerei und Weberei Steinen A. G., Steinen, Germany. Automatic spool-clearing apparatus for weft-replenishing looms. No. 1,011,065; Dec. 5; Sp. p. 1452; Gaz. vol. 173; p. 230.
Koechlin, Albert G., Steinen, Germany, assignor to Genossenschaft fur Textilpatente, G. m. b. H., Basel, Switzerland. Automatic weft-spool-changing apparatus for power-looms. No. 1,011,969; Dec. 19; Sp. p. 3534; Gaz. vol. 173; p. 618.
Koechlin, Isaac, Levallois-Perret, assignor to Société Anonyme des Automobiles et Cycles Peugeot, Paris, France. Oil-emptying mechanism for motor-casings. No. 1,006,566; Oct. 24; Sp. p. 4454; Gaz. vol. 171; p. 795.
Koegler, Herman. (See Schmich and Koegler.)
Koehler, Conrad. (See Minor, William, assignor.)
Koehler, Ernest F., London, England, assignor to Champion Igniter Company, Boston, Mass. Igniter. No. 998,535; July 18; Sp. p. 4194; Gaz. vol. 168; p. 743.
Koehler, John M. (See Madden and Koehler.)
Koenig, Alphonso L., San Francisco, Cal. Pressure-reducing gage. No. 1,003,916; Sept. 19; Sp. p. 3730; Gaz. vol. 170; p. 665.
Koenig, George A., Houghton, Mich. Extracting vanadium from its ores. No. 986,180; Mar. 7; Sp. p. 888; Gaz. vol. 164; p. 143.
Koenig, Harry A., Philadelphia, Pa. Atmospheric-gas iron. No. 986,397; Mar. 7; Sp. p. 1354; Gaz. vol. 164; p. 217.
Koenig, Harry A., Philadelphia, Pa. Gas-heated sad-iron. No. 997,198; July 4; Sp. p. 1259; Gaz. vol. 168; p. 205.
Koenig, Johann, Riga, Russia. Ball-and-socket pipe-joint. No. 994,471; June 6; Sp. p. 747; Gaz. vol. 167; p. 128.
Koenig, Johann, Riga, Russia. Expansion pipe-joint. No. 995,792; June 20; Sp. p. 3724; Gaz. vol. 167; p. 649.
Koenig, Johann, Riga, Russia. Ball-and-socket pipe-joint. No. 1,007,362; Oct. 31; Sp. p. 6177; Gaz. vol. 171; p. 1126.
Koenig, Johann, Riga, Russia, assignor of one-half to E. Witzenmann, Pforzheim, Baden, Germany. Safety device for piping. No. 982,505; Jan. 24; Sp. p. 5153; Gaz. vol. 162; p. 888.
Koenig, Louis. (See Hattersley and Koenig.)
Koenig, Paul M., and J. R. Meyer, Los Angeles, Cal. Bail-holder. No. 987,579; Mar. 21; Sp. p. 3822; Gaz. vol. 164; p. 681.
Koenig, Robert, Camden, N. J. Machine for shaping the ends of glass tubes. No. 982,212; Jan. 17; Sp. p. 4496; Gaz. vol. 162; p. 754.
Koenman, Konstantin, New York, N. Y. Treating wood. No. 987,888; Mar. 28; Sp. p. 4519; Gaz. vol. 164; p. 816.
Koenman, Konstantin, Bernardsville, assignor to F. B. Allen, Bernard township, Somerset county, N. J. Preserving wood. No. 1,007,877; Nov. 7; Sp. p. 529; Gaz. vol. 172; p. 80.
Koepp, Herman, Sacramento, Cal. Book-supporting device. No. 980,796; Jan. 3; Sp. p. 1318; Gaz. vol. 162; p. 212.
Koepplinger, Hermann, Vienna, Austria-Hungary. Device for perforating figured iron. No. 989,159; Apr. 11; Sp. p. 1826; Gaz. vol. 165; p. 316.
Koerner, Ewald, Dresden, Germany. Cigarette-machine. No. 1,000,736; Aug. 15; Sp. p. 3281; Gaz. vol. 169; p. 593.
Koerner, John W., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,011,970; Dec. 19; Sp. p. 3536; Gaz. vol. 173; p. 619.
Koester, Charles E., Jr., Estero, Fla. Mechanical toy. No. 1,004,440; Sept. 26; Sp. p. 4957; Gaz. vol. 170; p. 872.
Koetschet, Joseph, Lyon, and A. Barbier, St. Fons, near Lyon, assignors to Société Chimique Des Usines Du Rhône, Anciennement Gilliard, P. Monnet et Cartier, Paris, France. Manufacture of orthonitrobenzaldehyde. No. 997,301; July 11; Sp. p. 1489; Gaz. vol. 168; p. 272.
Koetschet, Joseph, and J. C. A. Meyer, Lyon; said Koetschet assignor to Société Chimique des Usines du Rhône, anciennement Gilliard P. Monnet et Cartier, Paris, France. Manufacture of zinc sulfid. No. 1,001,415; Aug. 22; Sp. p. 4772; Gaz. vol. 169; p. 860.
Kohan, Eliasar, Port Ewen, N. Y. Washing-machine. No. 1,007,450; Oct. 31; Sp. p. 6368; Gaz. vol. 171; p. 1156.
Kohlberger, Charles F., Astoria, N. Y. Compound pin-tumbler mechanism. No. 1,009,155; Nov. 21; Sp. p. 3379; Gaz. vol. 172; p. 598.
Kohler, Anthony M., Brixton, London, England. Electro-chemical process for cleaning and polishing silver plate and the like. No. 983,727; Feb. 7; Sp. p. 1007; Gaz. vol. 163; p. 160.
Köhler, Arthur, Chicago, Ill. Burglar and fire alarm and telephone system. No. 1,012,865; Dec. 26; Sp. p. 5492; Gaz. vol. 173; p. 971.
Köhler, August, assignor to Firm of C. Zeiss, Jena, Germany. Lens system for projecting stripes. No. 988,720; Apr. 4; Sp. p. 933; Gaz. vol. 165; p. 148.
Kohler, Ernest, Alameda, Cal. Amusement apparatus. No. 993,840; May 30; Sp. p. 6476; Gaz. vol. 166; p. 1166.
Köhler, Friedrich M., St. Petersburg, Russia. Arrangement of electrodes for the electrolytic refining of metals. No. 1,005,718; Oct. 10; Sp. p. 2517; Gaz. vol. 171; p. 432.
Kohler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Fare-box. No. 988,881; Apr. 4; Sp. p. 1242; Gaz. vol. 165; p. 199.
Kohler, George B., assignor to The J. G. Brill Company, Philadelphia, Pa. Means for unlocking receptacles and discharging the contents thereof. No. 1,011,815; Dec. 12; Sp. p. 3176; Gaz. vol. 173; p. 531.
Kohler, Henry F., Whittier, Cal. Grapple. No. 987,242; Mar. 21; Sp. p. 3135; Gaz. vol. 164; p. 567.
Köhler, Hugo. (See Merling and Köhler.)
Kohler, John F., New York, N. Y. Pie-making machine. No. 985,603; Feb. 28; Sp. p. 5103; Gaz. vol. 163; p. 902.
Kohler, William. (See Boyler, Emanuel J., assignor.)
Kohler, William. (See Boyler and Kohler.)
Köhler, Willy, Bremen, Germany. Current-collector for electrically-propelled vehicles. No. 1,004,884; Oct. 3; Sp. p. 747; Gaz. vol. 171; p. 120.
Kohlhaas, Frank J., Calumet, Mich. Currency-holder. No. 986,069; Mar. 7; Sp. p. 672; Gaz. vol. 164; p. 107.
Kohlhaas, Friedrich, Dusseldorf, Germany. Unmagnetizable steel. No. 981,575; Jan. 10; Sp. p. 3149; Gaz. vol. 162; p. 514.
Kohlhaas, Peter Z., Chicago, Ill. Punch-press guard. No. 1,001,050; Aug. 22; Sp. p. 4008; Gaz. vol. 169; p. 737.
Kohlhepp, John W., Chicago, Ill. Carcass scraping and polishing machine. No. 1,012,654; Dec. 26; Sp. p. 5001; Gaz. vol. 173; p. 898.
Kohlhepp, John W., Chicago, Ill., assignor to The Allbright-Nell Company. Hog-scraper. No. 994,523; June 6; Sp. p. 862; Gaz. vol. 167; p. 145.
Kohlhepp, John W., Chicago, Ill., assignor to The Allbright-Nell Company. Carcass scraping and polishing machine. No. 994,524; June 6; Sp. p. 873; Gaz. vol. 167; p. 146.
Kohlhepp, John W., assignor to W. B. Allbright, Chicago, Ill. Machine for dehairing and polishing carcasses. No. 1,002,920; Sept. 12; Sp. p. 1668; Gaz. vol. 170; p. 288.
Kohlhepp, John W., assignor to W. B. Allbright, Chicago, Ill. Automatically feeding and discharging hog-scraper. No. 1,002,921; Sept. 12; Sp. p. 1673; Gaz. vol. 170; p. 289.
Kohlmann, Jakob, New York, N. Y. Appliance for ash pails or cans. No. 996,774; July 4; Sp. p. 347; Gaz. vol. 168; p. 59.
Kohlmyer, Henry, Lorain, Ohio. Railway-tie. No. 993,176; May 23; Sp. p. 5030; Gaz. vol. 166; p. 908.
Kohlruss, Christian F., Augusta, Ga. Flying-machine. No. 1,005,232; Oct. 10; Sp. p. 1424; Gaz. vol. 171; p. 260.
Kohls, Arthur H. (See Miller, William H., assignor.)
Kohlwey, Otto F., Grafton, Wis. Driving attachment for cream-separators. No. 990,881; May 2; Sp. p. 119; Gaz. vol. 166; p. 22.

Alphabetical list of patentees—Continued.

Köhn, Claus H., Stade, Germany. Heating furnaces. No. 980,797; Jan. 3; Sp. p. 1322; Gaz. vol. 162; p. 212.
Köhn, Claus H., Stade, Germany. Motor-plow. No. 992,736; May 16; Sp. p. 4071; Gaz. vol. 166; p. 727.
Köhn, Claus H., Stade, assignor of one-half to E. Täubert, Leipzig, Germany. Traction-engine. No. 992,211; May 16; Sp. p. 2924; Gaz. vol. 166; p. 544.
Kohn, Jacob, New York, N. Y. Collapsible garment-rack. No. 994,753; June 13; Sp. p. 1439; Gaz. vol. 167; p. 266.
Kohn, Jacob, New York, N. Y. Folding rack. No. 1,008,477; Nov. 14; Sp. p. 1934; Gaz. vol. 172; p. 330.
Kohn, Jacob W., assignor to F. C. and F. H. W. Fraentzel, Newark, N. J. Brush and broom bridle. No. 988,474; Apr. 4; Sp. p. 395; Gaz. vol. 165; p. 63.
Kohn, John J., Chisholm, Minn. Rail-joint. No. 980,287; Jan. 3; Sp. p. 203; Gaz. vol. 162; p. 40.
Kohn, Milton M., New York, N. Y. Electric heater. No. 983,291; Feb. 7; Sp. p. 69; Gaz. vol. 163; p. 14.
Kohn, Milton M., New York, N. Y. Electric heater. No. 983,292; Feb. 7; Sp. p. 71; Gaz. vol. 163; p. 14.
Kohn, William, Brooklyn, N. Y. Trimming attachment for sewing-machines. No. 985,115; Feb. 21; Sp. p. 3955; Gaz. vol. 163; p. 699.
Kohn, William, Chicago, Ill. Picture-hanger. No. 989,612; Apr. 18; Sp. p. 2838; Gaz. vol. 165; p. 502.
Kohout, Emanuel G., New York, N. Y. Knockdown box. No. 1,001,051; Aug. 22; Sp. p. 4010; Gaz. vol. 169; p. 737.
Kohout, Emanuel G., New York, N. Y. Knockdown box. No. 1,007,035; Oct. 24; Sp. p. 5446; Gaz. vol. 171; p. 955.
Kohout, Vaclav, Dorchester, Nebr. Plow-equalizer. No. 1,002,706; Sept. 5; Sp. p. 1161; Gaz. vol. 170; p. 175.
Kohr, Robert L., Point Richmond, Cal. Ironing-board. No. 981,283; Jan. 10; Sp. p. 2544; Gaz. vol. 162; p. 414.
Kohrman, John, New York, N. Y. Cleaner for water-mains and waste-pipes. No. 985,604; Feb. 28; Sp. p. 5109; Gaz. vol. 163; p. 902.
Koike, Kihei, Seattle, Wash. Display apparatus. No. 1,012,655; Dec. 26; Sp. p. 5005; Gaz. vol. 173; p. 898.
Koiner, Arthur W., Richmond, Va. Time-switch. No. 980,288; Jan. 3; Sp. p. 205; Gaz. vol. 162; p. 40.
Koitlen, Sam, *et al.* (See Ackerman, Maurice, assignor.)
Koken Barbers' Supply Company. (See Koken, Ernest E., assignor.)
Koken, Edward H., Akron, Ohio. Vehicle wheel-rim. No. 1,009,529; Nov. 21; Sp. p. 4256; Gaz. vol. 172; p. 733.
Koken, Ernest E., assignor to Koken Barbers' Supply Company, St. Louis, Mo. Reclining mechanism for barbers' chairs. No. 987,580; Mar. 21; Sp. p. 3823; Gaz. vol. 164; p. 681.
Koken, Walter F., St. Louis, Mo. Barber's chair. No. 1,011,816; Dec. 12; Sp. p. 3177; Gaz. vol. 173; p. 531.
Kokomo Sanitary Manufacturing Co., The. (See Machin, Herbert, assignor.)
Kolb, Henry M., Philadelphia, Pa. Barrel-catch for revolvers. No. 995,156; June 13; Sp. p. 2321; Gaz. vol. 167; p. 401.
Kolb, John, Bayonne, N. J. Shade-bracket. No. 1,012,369; Dec. 19; Sp. p. 4417; Gaz. vol. 173; p. 756.
Kolb, William, Jr., Philadelphia, Pa. Mixing device. No. 1,012,206; Dec. 19; Sp. p. 4083; Gaz. vol. 173; p. 701.
Kolek, Karol, Buffalo, N. Y. Envelop. No. 998,348; July 18; Sp. p. 3827; Gaz. vol. 168; p. 679.
Kolkema, Joseph M. (See Hessenius and Kolkema.)
Kolkiewicz, Sylvester I., *et al.* (See Lukaszewski, Stanislaw J., assignor.)
Kollar, Walter B., Lansing, Mich. Safety device for steam-engines. No. 984,935; Feb. 21; Sp. p. 3620; Gaz. vol. 163; p. 638.
Kollenborn, George, Elsmore, Kans. Non-refillable bottle. No. 982,969; Jan. 31; Sp. p. 6127; Gaz. vol. 162; p. 1070.
Koller-Alder, Conrad. (See Egli, Edwin, assignor.)
Köller, Ferdinand, Nienstädt, Germany. Safety-catch. No. 1,011,066; Dec. 5; Sp. p. 1453; Gaz. vol. 173; p. 230.
Kollmar & Jourdan A. G. Uhrkettenfabrik. (See Leibbrand, Carl, assignor.)
Kollmorgen, Adolph A. (See Madsen and Kollmorgen.)
Kollmorgen, Frederick L. G., Caldwell, assignor to The Keuffel & Esser Company, Hoboken, N. J. Periscope. No. 1,006,230; Oct. 17; Sp. p. 3663; Gaz. vol. 171; p. 645.
Kolossváry, Andreas, S. Haltenberger, Budapest, and E. Berdenich, Püspök-Ladány, Austria-Hungary; said Kolossváry assignor to said Haltenberger and Berdenich. Impregnating timber. No. 1,012,207; Dec. 19; Sp. p. 4085; Gaz. vol. 173; p. 701.
Kolsky, Anthony, deceased; J. Petracek, Oberlin, Kans., administrator. Air-motor. No. 997,207; July 4; Sp. p. 1280; Gaz. vol. 168; p. 208.
Koltonski, Stanislaw A., Boston, Mass. Telephone-transmitter. No. 990,275; Apr. 25; Sp. p. 4258; Gaz. vol. 165; p. 759.
Koltonski, Stanislaw A., assignor to Electro Mechanical Works, Boston, Mass. Telephone switch apparatus. No. 982,213; Jan. 17; Sp. p. 4501; Gaz. vol. 162; p. 755.
Komar, Erazm, New York, N. Y. Toy device. No. 986,578; Mar. 14; Sp. p. 1745; Gaz. vol. 164; p. 309.
Komarek, Gustav, assignor to C. L. Gilbert, St. Louis, Mo. Car-truck. No. 1,008,721; Nov. 14; Sp. p. 2469; Gaz. vol. 172; p. 417.
Komarek, Gustav, assignor to C. L. Gilbert, St. Louis, Mo. Log-truck. No. 1,008,921; Nov. 14; Sp. p. 2874; Gaz. vol. 172; p. 483.
Komarek, Gustav, assignor to C. L. Gilbert, St. Louis, Mo. Car-truck side frame. No. 1,010,773; Dec. 5; Sp. p. 845; Gaz. vol. 173; p. 131.
Kommanditgesellschaft Guido Ruetgers Holzimprägnierungs- und Holzpflasterungsgesellschaft. (See Altenstein, Fritz, assignor.)
Konarski, Antoni, New York, N. Y. Nutcracker. No. 1,003,917; Sept. 19; Sp. p. 3732; Gaz. vol. 170; p. 665.
Köneman, William A., Chicago, Ill. Tire. No. 988,475; Apr. 4; Sp. p. 397; Gaz. vol. 165; p. 64.
Konig, Albert, assignor to Firm of C. Zeiss, Jena, Germany. Telemeter. No. 1,000,609; Aug. 15; Sp. p. 3011; Gaz. vol. 169; p. 549.
König, Gottlieb, Seebach, near Zurich, assignor to Aktiengesellschaft St. Georgen, Zurich, Switzerland. Rotary hoeing-machine. No. 983,242; Jan. 31; Sp. p. 6701; Gaz. vol. 162; p. 1163.
Konigsberg, Charles S., assignor of one-third to G. F. Witter, Oakland, Cal. Self-heating sad-iron. No. 1,000,820; Aug. 15; Sp. p. 3454; Gaz. vol. 169; p. 622.
Konigsberg, Joseph, New York, and J. Forsheim, Great Neck, N. Y. Device for attaching handles to umbrellas. No. 1,002,158; Aug. 29; Sp. p. 6286; Gaz. vol. 169; p. 1137.
Kononoff, Iwan I., Astrakhan, Russia. Preserving fish. No. 1,002,707; Sept. 5; Sp. p. 1162; Gaz. vol. 170; p. 175.
Konopinski, Valentine, Brooklyn, N. Y. Pole-protector. No. 985,605; Feb. 28; Sp. p. 5109; Gaz. vol. 163; p. 903.
Konopinski, Valentine, Brooklyn, N. Y. Pole-protector. No. 985,681; Feb. 28; Sp. p. 5255; Gaz. vol. 163; p. 927.
Konrad, Albert. (See Zittle and Konrad.)
Konrad, August, Hartford, Wis. Spring-wheel. No. 990,051; Apr. 18; Sp. p. 3769; Gaz. vol. 165; p. 652.
Konrad, Timothy H., San Mateo, Cal. Airship. No. 993,256; May 23; Sp. p. 5197; Gaz. vol. 166; p. 952.
Koons, Gerow. (See Lathrop, Clinton A., assignor.)
Koons, John H., Anderson, Ind. Furnace. No. 980,424; Jan. 3; Sp. p. 508; Gaz. vol. 162; p. 86.
Koop, Theodore, *et al.* (See Moore, Samuel J., assignor.)
Koop, William E., *et al.* (See Geiger, Charles E., assignor.)
Kootz, William, Milwaukee, Wis. Umbrella-fastener. No. 985,606; Feb. 28; Sp. p. 5111; Gaz. vol. 163; p. 903.
Kopel, Frank J., Buxton, Iowa. Dirigible lamp. No. 1,009,530; Nov. 21; Sp. p. 4258; Gaz. vol. 172; p. 733.
Kopetka, Joseph P., Bloomfield, Nebr. Spring-tire. No. 997,834; July 11; Sp. p. 2638; Gaz. vol. 168; p. 454.
Kopetschny, Edward F., *et al.* (See Geraghty, John P., assignor.)
Kopetschny, Edward F., *et al.* (See Naylor, George W., assignor.)
Kopf, Joseph B., Rockville Center, N. Y. Sandal for horseshoes. No. 998,349; July 18; Sp. p. 3828; Gaz. vol. 168; p. 680.
Kopietz, Joseph H. (See McCoy, Walter J., assignor.)
Kopke, Ernst W. (See Sanford, Kopke, and Procunier.)
Kopp, Frank A., Miami, Fla. Hat and cap band. No. 993,257; May 23; Sp. p. 5199; Gaz. vol. 166; p. 933.
Kopp, Frank A., Miami, Fla. Toy gun. No. 1,009,531; Nov. 21; Sp. p. 4259; Gaz. vol. 172; p. 534.
Kopp, Philip E., Kansas City, Mo. Blade-sharpener. No. 1,011,211; Dec. 12; Sp. p. 1821; Gaz. vol. 173; p. 317.
Kopp, William, Pasadena, Cal. Window-operating mechanism. No. 999,318; Aug. 1; Sp. p. 237; Gaz. vol. 169; p. 44.
Koppel, Mihkel, Philadelphia, Pa. Pedocycle. No. 999,660; Aug. 1; Sp. p. 911; Gaz. vol. 169; p. 159.
Koppell, Edward, New York, N. Y. Safety-stop for elevators. No. 990,052; Apr. 18; Sp. p. 3771; Gaz. vol. 165; p. 652.
Koppers, H. (See Wilputte, Louis, assignor.)
Koppers, Heinrich, Essen-on-the-Ruhr, Germany. Coking and gas-generating oven. No. 985,909; Mar. 7; Sp. p. 324; Gaz. vol. 164; p. 52.
Koppes, William M. (See Whiting, Koppes, and Gorham.)
Koppitz, Carl G., Youngstown, Ohio. Fluid-pressure regulator. No. 994,167; June 6; Sp. p. 129; Gaz. vol. 167; p. 23.
Koppitz, Carl G., Youngstown, Ohio. Pressure-regulator. No. 994,168; June 6; Sp. p. 132; Gaz. vol. 167; p. 24.
Kops Bros. (See Kops, Waldemar, assignor.)
Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Elastic webbing. No. 989,985; Apr. 18; Sp. p. 3645; Gaz. vol. 165; p. 631.
Kopsa, Julius, Chicago, Ill. Holder. No. 998,015; July 18; Sp. p. 3065; Gaz. vol. 168; p. 559.
Korda, Désiré, assignor to Société Commerciale des Mines, Minerais et Metaux, Paris, France. Treatment of sulfureted copper-zinc ores in a converter. No. 1,003,051; Sept. 12; Sp. p. 1915; Gaz. vol. 170; p. 331.
Kordek, Cyprian and J., Philadelphia, Pa. Trolley. No. 1,010,922; Dec. 5; Sp. p. 1167; Gaz. vol. 173; p. 183.
Kordek, Joseph. (See Kordek, Cyprian and J.)

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Koretsky, Joseph, Jacksonville, Ill. Garment-pocket. No. 993,383; May 30; Sp. p. 5476; Gaz. vol. 166; p. 1008.
Korf, Samuel, assignor to The Wi-Ko Electric Company, Chicago, Ill. Snap-switch. No. 987,581; Mar. 21; Sp. p. 3827; Gaz. vol. 164; p. 682.
Korf, Samuel, assignor to The Wi-Ko Electric Company, Chicago, Ill. Rotary snap-switch. No. 997,563; July 11; Sp. p. 1999; Gaz. vol. 168; p. 357.
Korf, Samuel, and A. Jacobson, Chicago, Ill. Clasp. No. 995,260; June 13; Sp. p. 2515; Gaz. vol. 167; p. 435.
Korf, Samuel, and R. Witz, assignors to The Wi-Ko Electric Company, Chicago, Ill. Rotary snap-switch. No. 997,564; July 11; Sp. p. 2001; Gaz. vol. 168; p. 357.
Korff, Edward W., Brooklyn, N. Y. Sheet-jogger. No. 1,008,651; Nov. 14; Sp. p. 2330; Gaz. vol. 172; p. 393.
Korff Manufacturing Company. (See Smith, Mark H., assignor.)
Korinek, Joseph. (See Vobrouček, Frank, assignor.)
Korman, John A. (See Korman, Marcus and J. A.
Korman, Marcus and J. A., Washington, D. C. Machine for dispensing straws. No. 995,157; June 13; Sp. p. 2322; Gaz. vol. 167; p. 401.
Kornahrens, Henry L., Oakland, Cal. Gasolene-engine starter. No. 1,002,590; Sept. 5; Sp. p. 911; Gaz. vol. 170; p. 135.
Korndörfer, Georg. (See Stolz and Korndörfer.)
Korneffel, Paul V., and O. E. Hiitt, Lewiston, Me. Mold. No. 1,007,452; Oct. 31; Sp. p. 6373; Gaz. vol. 171; p. 1157.
Körner, Theodor H., Marburg, Germany. Fodder-box. No. 994,706; June 6; Sp. p. 1285; Gaz. vol. 167; p. 210.
Korner, Vane B. (See Brown, Hollen, assignor.)
Kornmann, Henry. (See Schmidgall and Kornmann.)
Korrodi, Heinrich, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun-sight. No. 985,181; Feb. 28; Sp. p. 4163; Gaz. vol. 163; p. 757.
Korrodi, Heinrich, Berne-Kirchenfeld, Switzerland, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Sight device with telescope. No. 988,643; Apr. 4; Sp. p. 761; Gaz. vol. 165; p. 122.
Korrodi, Heinrich, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with an independent sighting-line. No. 1,003,115; Sept. 12; Sp. p. 2057; Gaz. vol. 170; p. 354.
Korrodi, Heinrich, and O. Grauhering, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Prism-telescope. No. 988,642; Apr. 4; Sp. p. 759; Gaz. vol. 165; p. 121.
Körting & Mathiesen Aktiengesellschaft. (See Körting, Max, assignor.)
Körting, Max, assignor to Körting & Mathiesen Aktiengesellschaft, Leutzsch, near Leipzig, Germany. Arc-lamp. No. 994,261; June 6; Sp. p. 330; Gaz. vol. 167; p. 57.
Körting, Max, assignor to Körting & Mathiesen Aktiengesellschaft, Leutzsch, near Leipzig, Germany. Electric-arc lamp. No. 1,007,211; Oct. 31; Sp. p. 5873; Gaz. vol. 171; p. 1072.
Korts, Julian E. (See O'Brien and Korts.)
Korts, Raymond E., Wellsville, N. Y. Combined drill-bit and underreamer. No. 1,012,563; Dec. 19; Sp. p. 4792; Gaz. vol. 173; p. 823.
Korzenborn, Charles, Jr., Cincinnati, Ohio. Feed attachment for cylinder printing-presses. No. 998,350; July 18; Sp. p. 3829; Gaz. vol. 168; p. 680.
Kosác, Kalman. (See Hill and Kosác.)
Koscherak, Otto L., New York, N. Y. Non-breakable siphon-bottle tube. No. 984,936; Feb. 21; Sp. p. 3622; Gaz. vol. 163; p. 639.
Koscinski, Ernest, Oakland, Cal. Instrument for observing angles. No. 989,852; Apr. 18; Sp. p. 3351; Gaz. vol. 165; p. 584.
Koss, Frank, assignor of one-half to G. Prima, Detroit, Mich. Filtering-faucet. No. 982,434; Jan. 24; Sp. p. 4984; Gaz. vol. 162; p. 862.
Koster, Roy F., Los Angeles, Cal. Calculating device. No. 1,005,560; Oct. 10; Sp. p. 2170; Gaz. vol. 171; p. 378.
Kosters, Clements B., Buffalo, N. Y. Shoe-stretcher. No. 982,369; Jan. 24; Sp. p. 4855; Gaz. vol. 162; p. 840.
Kostileff, Nicolas, Nischne Saldinskij Sawod, Russia. Casting steel ingots. No. 1,003,275; Sept. 12; Sp. p. 2399; Gaz. vol. 170; p. 412.
Kothe, Richard. (See Dressel, Kothe, and Hoerlein.)
Kothe, Richard. (See Dressel, Kothe, and Thauss.)
Kothe, Richard, Vohwinkel, O. Dressel, Elberfeld, and H. Hoerlein, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Orange wool-dye. No. 1,005,233; Oct. 10; Sp. p. 1426; Gaz. vol. 171; p. 261.
Kotlarich, Pete M., Texas City, Tex. Rail-joint. No. 1,002,159; Aug. 29; Sp. p. 6288; Gaz. vol. 169; p. 1137.
Kotzki, Felix, Brooklyn, N. Y. Window attachment. No. 994,754; June 13; Sp. p. 1441; Gaz. vol. 167; p. 266.
Kouril, Joseph. (See Iber, Albert, assignor.)
Kouwenhoven, William B., and G. B. Wilkins, New York, N. Y. Dynamo-electric machine. No. 991,787; May 9; Sp. p. 2044; Gaz. vol. 166; p. 368.
Kouyoumjian, Haroutiun K., St. Louis, Mo. Electric regulator. No. 983,500; Feb. 7; Sp. p. 520; Gaz. vol. 163; p. 83.
Kovacs, Imre, Youngstown, Ohio. Feed-bag. No. 1,010,152; Nov. 28; Sp. p. 5509; Gaz. vol. 172; p. 987.
Kovar, Joseph J., Claremont, Minn. Planting-shoe with covering-disks. No. 994,411; June 6; Sp. p. 646; Gaz. vol. 167; p. 110.
Kowalski, Mieczyslaw, Lemberg, Austria-Hungary. Purifying raw juices in the sugar manufacture. No. 994,646; June 6; Sp. p. 1149; Gaz. vol. 167; p. 188.
Kowsky, Hans, Washington, D. C. Whipping-top. No. 1,011,817; Dec. 12; Sp. p. 3179; Gaz. vol. 173; p. 531.
Koyanagi, Ichitaro, Tokyo, Japan. Miner's safety-lamp. No. 1,001,052; Aug. 22; Sp. p. 4011; Gaz. vol. 169; p. 738.
Koyl, Charles H., New York, N. Y. Feed-water heater. No. 1,001,761; Aug. 29; Sp. p. 5477; Gaz. vol. 169; p. 1006.
Koziczenski, Antoni E. (See Tucholski and Koziczenski.)
Kraatz, George L., Martins Ferry, Ohio, assignor to Haskins Glass Company. Shade or reflector. No. 981,576; Jan. 10; Sp. p. 3150; Gaz. vol. 162; p. 514.
Kraber, Arant J., and G. F. Ferrier, Pittsburg, Pa. Windshield hinge. No. 999,040; July 25; Sp. p. 5363; Gaz. vol. 168; p. 954.
Kraetsch, Paul J., Des Moines, Iowa. Smoke-consuming furnace. No. 991,326; May 2; Sp. p. 1076; Gaz. vol. 166; p. 179.
Kraft, Charles H., *et al.* (See Croft, Robert, assignor.)
Kraft, George, Nashua, Iowa. Lubricator. No. 991,214; May 2; Sp. p. 827; Gaz. vol. 166; p. 140.
Kraft, Henry P., assignor to A. Schrader's Son, New York, N. Y. Thread-cutting mechanism. No. 986,724; Mar. 14; Sp. p. 2048; Gaz. vol. 164; p. 359.
Kraft, Henry P., New York, N. Y., and M. C. Schweinert, West Hoboken, N. J. Driving apparatus or the like. No. 990,818; Apr. 25; Sp. p. 5498; Gaz. vol. 165; p. 947.
Kraft, Oliver D., and L. W. Fetzer, assignors of one-third to L. W. Fetzer and two-thirds to M. A. Corthill, Findlay, Ohio. Well pulling and cleaning machine. No. 986,181; Mar. 7; Sp. p. 889; Gaz. vol. 164; p. 144.
Kraft, Wesley G., Marion, Kans. Salt and pepper shaker. No. 1,007,294; Oct. 31; Sp. p. 6038; Gaz. vol. 171; p. 1102.
Kraft, William B., Washington, D. C. Means for representing music. No. 1,009,671; Nov. 21; Sp. p. 4513; Gaz. vol. 172; p. 777.
Kraft, William E. (See Carle and Kraft.)
Krajdocha, Edward, Quinnesec, Mich. Keyless padlock. No. 980,798; Jan. 3; Sp. p. 1323; Gaz. vol. 162; p. 213.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Radial-draft gear. No. 984,937; Feb. 21; Sp. p. 3623; Gaz. vol. 163; p. 639.
Krakau, Harry T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 991,858; May 9; Sp. p. 2201; Gaz. vol. 166; p. 393.
Krake, Henry, Boston, Mass. Fire-shutter controller. No. 980,536; Jan. 3; Sp. p. 785; Gaz. vol. 162; p. 125.
Krall, Bartolomey, Chelsea, Mass. Draft-cock. No. 999,041; July 25; Sp. p. 5364; Gaz. vol. 168; p. 955.
Kramer, Adam T., Bluffton, Minn. Rail brace and fastener. No. 1,004,441; Sept. 26; Sp. p. 4958; Gaz. vol. 170; p. 872.
Kramer, Alfred F., Freedom, Pa. Tire. No. 1,003,363; Sept. 12; Sp. p. 2573; Gaz. vol. 170; p. 443.
Kramer, Anders, New York, N. Y. Combination letter-sheet and envelop. No. 980,799; Jan. 3; Sp. p. 1324; Gaz. vol. 162; p. 213.
Kramer, Anders, Hoboken, N. J. Sheet-feeding apparatus. No. 985,607; Feb. 28; Sp. p. 5112; Gaz. vol. 163; p. 903.
Kramer, Andrew A., Kansas City, Kans. Hog, sheep, and poultry fountain. No. 983,375; Feb. 7; Sp. p. 257; Gaz. vol. 163; p. 43.
Kramer, Andrew A., Kansas City, Mo. Riveting-machine. No. 993,841; May 30; Sp. p. 6478; Gaz. vol. 166; p. 1167.
Kramer Automatic Tamper Co. (See Kramer, George W., assignor.)
Kramer, Charles, North Braddock, Pa. Aeroplane. No. 988,113; Mar. 28; Sp. p. 5033; Gaz. vol. 164; p. 893.
Kramer, George H., Dayton, Ohio. Pattern for metal castings. No. 1,010,643; Dec. 5; Sp. p. 542; Gaz. vol. 173; p. 85.
Kramer, George W., Peoria, Ill. Concrete-block-making machine. No. 981,929; Jan. 17; Sp. p. 3932; Gaz. vol. 162; p. 659.
Kramer, George W., Little Rock, Ark., assignor to Kramer Automatic Tamper Co., Peoria, Ill. Machine for making concrete building-blocks. No. 981,928; Jan. 17; Sp. p. 3923; Gaz. vol. 162; p. 658.
Kramer, Lawrence Z., Jackson, Mich. Skirt-marker. No. 980,800; Jan. 3; Sp. p. 1326; Gaz. vol. 162; p. 213.
Kramer, William, Brooklyn Hill, N. Y. Click mechanism for fishing-reels. No. 996,348; June 27; Sp. p. 4962; Gaz. vol. 167; p. 874.
Kramlich, Benjamin. (See Krueger and Kramlich.)
Krammer, A. A. (See Holt, Claude G., assignor.)
Kranebiel, John V., Williamsville, N. Y. Washing-machine. No. 1,006,231; Oct. 17; Sp. p. 3665; Gaz. vol. 171; p. 646.

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Krannichfeldt, Johann, Cologne, Germany. Device for insulating the twisted ends of electric wires. No. 997,066; July 4; Sp. p. 1005; Gaz. vol. 168; p. 161.
Krannichfeldt, Johann, Cologne, Germany. Apparatus for exploding mine charges. No. 1,005,649; Oct. 10; Sp. p. 2388; Gaz. vol. 171; p. 409.
Krastel, Hans R., Darmstadt, Germany. Pneumatic tire. No. 981,091; Jan. 10; Sp. p. 2091; Gaz. vol. 162; p. 345.
Kratsch, William H., assignor to Challoner Company, Oshkosh, Wis. Skid-lifting device. No. 992,212; May 16; Sp. p. 2925; Gaz. vol. 166; p. 544.
Kratt, Charles, assignor to T. McClelland, Jr., Muirend, Cathcart, near Glasgow, Scotland. Apparatus for heating water by electricity. No. 1,001,654; Aug. 29; Sp. p. 5227; Gaz. vol. 169; p. 969.
Kratz, Ernst, Frankfort-on-the-Main, Germany. Operating-knife. No. 990,882; May 2; Sp. p. 120; Gaz. vol. 166; p. 22.
Kraus Engine Company. (See Kraus, Otto, assignor.)
Kraus, J. W. (See Trotter, George C., assignor.)
Kraus, Jacob W., Hampton, Va. Gate. No. 1,007,453; Oct. 31; Sp. p. 6375; Gaz. vol. 171; p. 1157.
Kraus Light Company, The. (See Kraus, Samuel F., assignor.)
Kraus, Otto, New York, N. Y., assignor to Kraus Engine Company. Internal-combustion engine. No. 980,801; Jan. 3; Sp. p. 1327; Gaz. vol. 162; p. 214.
Kraus, Rudolf, Hamilton, Ontario, Canada, assignor of one-half to A. Loquin, West Allis, Wis. Electric resister. No. 996,862; July 4; Sp. p. 544; Gaz. vol. 168; p. 89.
Kraus, Samuel F., assignor to The Kraus Light Company, Denver, Colo. Street gas-lamp. No. 1,003,615; Sept. 19; Sp. p. 3119; Gaz. vol. 170; p. 562.
Krausch, Walter T. (See Elder and Krausch.)
Krause, Adolph D., Green Bay, Wis. Trace-holder. No. 996,349; June 27; Sp. p. 4965; Gaz. vol. 167; p. 874.
Krause, August, Boston, Mass. Window. No. 989,160; Apr. 11; Sp. p. 1827; Gaz. vol. 165; p. 317.
Krause, Carl G. (See Zook and Krause.)
Krause, Hermann, St. Louis, Mo., assignor to H. Scarborough, Sr., Chicago, Ill. Bottle-washer. No. 999,042; July 25; Sp. p. 5367; Gaz. vol. 168; p. 955.
Krause, Paul, Babylon, N. Y. Gas-turbine. No. 1,000,924; Aug. 15; Sp. p. 3669; Gaz. vol. 169; p. 658.
Kraushaar, Henry C., St. Louis, Mo. Shock-absorber for chandeliers. No. 1,006,232; Oct. 17; Sp. p. 3667; Gaz. vol. 171; p. 646.
Krausz, Soma, Budapest, Austria-Hungary. Locking-frame for printed matter. No. 992,675; May 16; Sp. p. 3951; Gaz. vol. 166; p. 704.
Kraut, Hans, Chicago, Ill., assignor, by mesne assignments, to J. T. Ryerson & Son. Shearing-machine. No. 994,755; June 13; Sp. p. 1442; Gaz. vol. 167; p. 267.
Kraut, Hans B., assignor to Joseph T. Ryerson & Son, Chicago, Ill. Combined punching, shearing, and bar-cutting machine. No. 1,006,761; Oct. 24; Sp. p. 4837; Gaz. vol. 171; p. 860.
Krauter, William C., *et al.* (See Heron, Christopher, assignor.)
Krauth, Albert, Hamilton, Ohio. Autographic register. No. 987,243; Mar. 21; Sp. p. 3136; Gaz. vol. 164; p. 567.
Krauth, Oscar. (See Schneider, Georg, assignor.)
Krebs, George R. (See Holliday, Weidensall, and Krebs.)
Krebs, John C. L. (See Bachle and Krebs.)
Krech, Frederick W., *et al.* (See Beebe, Frank, assignor.)
Krech, Frederick W., and R. C. Hansen; said Krech assignor to A. L. Thomas, Chicago, Ill. Arch-supporter. No. 988,942; Apr. 4; Sp. p. 1366; Gaz. vol. 165; p. 218.
Kreesit Company. (See Doley, John A., assignor.)
Kreglo, James A., *et al.* (See Suits, Bert C., assignor.)
Kreibich, John, Philadelphia, Pa. Spring-controlled draw-off cock for liquid-containers. No. 986,070; Mar. 7; Sp. p. 673; Gaz. vol. 164; p. 108.
Kreidl, Ignaz, Vienna, Austria-Hungary. Manufacture of incandescent gas-mantles. No. 980,802; Jan. 3; Sp. p. 1334; Gaz. vol. 162; p. 214.
Kreidler, Elmer J., Hecktown, Pa. Match. No. 1,002,526; Sept. 5; Sp. p. 772; Gaz. vol. 170; p. 113.
Kreidler, William A., Lake Bluff, Ill., assignor, by mesne assignments, to Lackawanna Steel Company, New York, N. Y. Sheet-piling. No. 1,007,454; Oct. 31; Sp. p. 6377; Gaz. vol. 171; p. 1157.
Kreiger, Gustave, New York, N. Y. Corset-shoe. No. 990,567; Apr. 25; Sp. p. 4945; Gaz. vol. 165; p. 863.
Kreiling, Christian H., Chandlerville, Ill. Excavating apparatus. No. 1,009,532; Nov. 21; Sp. p. 4260; Gaz. vol. 172; p. 534.
Kreimendahl, Charles, and A. J. Sheff, Pittsburg, Pa.; said Kreimendahl assignor to said Sheff. Jewel-setting tool. No. 988,195; Mar. 28; Sp. p. 5181; Gaz. vol. 164; p. 919.
Kreis, Oscar C., Jr., assignor to The Gray Motor Company, Detroit, Mich. Muffler for internal-combustion engines. No. 981,770; Jan. 17; Sp. p. 3550; Gaz. vol. 162; p. 602.
Kreis, Oscar C., Jr., assignor to Gray Motor Company, Detroit, Mich. Carbureter. No. 1,006,387; Oct. 17; Sp. p. 4012; Gaz. vol. 171; p. 699.
Kreis, Robert W., Jennings, Mo. Rock-drill. No. 1,012,656; Dec. 26; Sp. p. 5006; Gaz. vol. 173; p. 898.
Kreisel, Gustave F. (See Thomas, Owen W., assignor.)
Kreissl, Fritz, and C. Seibert, Vienna, Austria-Hungary. Obtaining textile fibers. No. 1,001,284; Aug. 22; Sp. p. 4477; Gaz. vol. 169; p. 813.
Krekowsky, Ignatz. (See Markowski and Krekowsky.)
Krell Auto-Grand Piano Co., The. (See Welin and Utterberg, assignors.)
Krell Auto-Grand Piano Co. of America. (See Welin, Peter, assignor.)
Krell-French Piano Co. (See French, Horace E., assignor.)
Krell, Nicholas, Barton, Wis. Guard for automobile-wheels. No. 1,007,878; Nov. 7; Sp. p. 531; Gaz. vol. 172; p. 80.
Kremer, Alf C., *et al.* (See O'Brien, Arthur, assignor.)
Kremer, Arpad A., *et al.*, administrators. (See Kardos, Hugo.)
Kremer, Franklin W., Carlstadt, N. J. Core-chuck. No. 1,008,652; Nov. 14; Sp. p. 2331; Gaz. vol. 172; p. 393.
Kremer, Robert W., Cleveland, Ohio. Sad-iron. No. 999,319; Aug. 1; Sp. p. 238; Gaz. vol. 169; p. 44.
Krengel, Hugo, Brooklyn, N. Y. Printing device. No. 992,510; May 16; Sp. p. 3609; Gaz. vol. 166; p. 648.
Krenke, Otto A., Port Huron, Mich. Adjustable spacing-collar. No. 1,012,564; Dec. 19; Sp. p. 4793; Gaz. vol. 173; p. 823.
Krentler-Arnold Hinge Last Company. (See Krentler, Edwin O. and W. A., assignors.)
Krentler-Arnold Hinge Last Company. (See Schelter, John C., assignor.)
Krentler-Arnold Hinge Last Company. (See Shainsey, Frederick J., Sr., assignor.)
Krentler Brothers Company. (See Pym, Charles F., assignor.)
Krentler, Edwin O. and W. A., assignors to Krentler-Arnold Hinge Last Company, Detroit, Mich. Automatically-locking last. No. 999,504; Aug. 1; Sp. p. 610; Gaz. vol. 169; p. 106.
Krentler, Walter A. (See Krentler, Edwin O. and W. A.)
Krenz, Julius D., Peoria, Ill. Fly-net holder. No. 989,369; Apr. 11; Sp. p. 2287; Gaz. vol. 165; p. 387.
Krenzke, George, Racine, Wis. Rope-hitch. No. 986,014; Mar. 7; Sp. p. 562; Gaz. vol. 164; p. 89.
Kresky, Jesse E., Petaluma, Cal. Oil-burner. No. 1,006,853; Oct. 24; Sp. p. 5070; Gaz. vol. 171; p. 893.
Kress, Claude W., assignor to S. H. Kress & Company, New York, N. Y. Display device. No. 993,781; May 30; Sp. p. 6354; Gaz. vol. 166; p. 1146.
Kress, Joseph, Bisbee, Ariz. Fly-trap. No. 987,889; Mar. 28; Sp. p. 4521; Gaz. vol. 164; p. 816.
Kretschan, Anton, Chicago, Ill. Marcel-wave curler. No. 988,357; Apr. 4; Sp. p. 133; Gaz. vol. 165; p. 24.
Kretschmer, Ludwig, New York, N. Y. Necktie-fastener. No. 985,530; Feb. 28; Sp. p. 4956; Gaz. vol. 163; p. 876.
Kretz, Hermann, St. Paul, Minn. Removable closure for vehicles. No. 981,771; Jan. 17; Sp. p. 3552; Gaz. vol. 162; p. 603.
Kretz, Karl, Strassburg, Germany. Removable coin-actuated apparatus for use with electricity-meters. No. 1,006,233; Oct. 17; Sp. p. 3667; Gaz. vol. 171; p. 646.
Kretzer, Johann, Wiesbaden, Germany. Non-refillable bottle. No. 1,003,918; Sept. 19; Sp. p. 3733; Gaz. vol. 170; p. 665.
Kretzschmar, Gustav, Paauilo, Hawaii. Tobacco-barn. No. 990,749; Apr. 25; Sp. p. 5351; Gaz. vol. 165; p. 923.
Kreulhaus, Ferdinand B., Birmingham, Ala. Cotton chopper and cultivator. No. 997,623; July 11; Sp. p. 2161; Gaz. vol. 168; p. 379.
Kreusch, Frederick W. (See Palmenberg and Kreusch.)
Kreutzberg, Louis J., Easton, Pa. Molding-flask. No. 1,002,708; Sept. 5; Sp. p. 1163; Gaz. vol. 170; p. 176.
Kreutzer, Ludvig C., and N. P. S. Möller, Vejle, Denmark. Fireplace. No. 992,004; May 9; Sp. p. 2486; Gaz. vol. 166; p. 442.
Kreuzkamp, August J., assignor to The Englander Spring Bed Company, New York, N. Y. Side guard for spring-mattresses. No. 984,766; Feb. 21; Sp. p. 3301; Gaz. vol. 163; p. 582.
Kreuzkamp, August J., assignor to The Englander Spring Bed Company, New York, N. Y. Side guard for spring-mattresses. No. 984,938; Feb. 21; Sp. p. 3625; Gaz. vol. 163; p. 639.
Krewson, Frank H., Philadelphia, Pa. Signaling mechanism for automobiles. No. 1,001,203; Aug. 22; Sp. p. 4320; Gaz. vol. 169; p. 787.
Krickel, Louis H., Greenville, Miss. Hoof-trimmer. No. 1,000,821; Aug. 15; Sp. p. 3456; Gaz. vol. 169; p. 623.
Kriebel, George M., Garfield, Wash. Well-drill. No. 1,011,818; Dec. 12; Sp. p. 3182; Gaz. vol. 173; p. 532.
Kriedter, William, and W. H. Bourdon, New York, N. Y. Wing for flying-machines. No. 993,842; May 30; Sp. p. 6480; Gaz. vol. 166; p. 1167.
Kriedter, William, and W. Bourdon, New York, N. Y. Universal rudder for flying-machines. No. 996,863; July 4; Sp. p. 546; Gaz. vol. 168; p. 90.
Krieg, Archibald A. (See Bonsall, Le Roy T., assignor.)
Krieg, August G., Minneapolis, Minn. Smoke-consumer. No. 982,970; Jan. 31; Sp. p. 6129; Gaz. vol. 162; p. 1071.

Alphabetical list of patentees—Continued.

Krieg, August G., Minneapolis, Minn. Smoke-consumer for low-pressure boilers. No. 988,358; Apr. 4; Sp. p. 134; Gaz. vol. 165; p. 25.
Krieger, Curt, Louisville, Ky. Beverage-dispensing apparatus. No. 1,004,442; Sept. 26; Sp. p. 4960; Gaz. vol. 170; p. 872.
Krieger, Hugo, New York, N. Y. Dissolving-view apparatus. No. 1,001,534; Aug. 22; Sp. p. 4975; Gaz. vol. 169; p. 898.
Krieger, Louis B., *et al.* (See Tank, Henry P., assignor.)
Krile, Stephen G., San Francisco, Cal. Folding chair. No. 984,939; Feb. 21; Sp. p. 3627; Gaz. vol. 163; p. 640.
Kristofek, Frank J., assignor to The American Art Works, Coshocton, Ohio. Match-box or the like. No. 991,788; May 9; Sp. p. 2045; Gaz. vol. 166; p. 368.
Kristofek, Frank J., assignor to The American Art Works, Coshocton, Ohio. Match-box. No. 991,789; May 9; Sp. p. 2047; Gaz. vol. 166; p. 369.
Kristofferson, Charles L., Spearfish, S. D. Rail-joint. No. 1,009,250; Nov. 21; Sp. p. 3630; Gaz. vol. 172; p. 633.
Kritsch, Charles E., Washington, D. C. Crutch. No. 986,999; Mar. 14; Sp. p. 2611; Gaz. vol. 164; p. 451.
Kritz, Frank, Kansas City, Mo. Store-front construction. No. 987,143; Mar. 21; Sp. p. 2890; Gaz. vol. 164; p. 531.
Kriz, Josef, and F. Schorik, assignors of one-half to F. Schorik and one-half to J. Baumruk, Jr., Chicago, Ill. Vending-machine. No. 984,433; Feb. 14; Sp. p. 2536; Gaz. vol. 163; p. 429.
Kriz, William, St. Louis, Mo. Bell-ringer for door-knobs. No. 983,626; Feb. 7; Sp. p. 795; Gaz. vol. 163; p. 127.
Krnka, Karl, Hirtenberg, Austria-Hungary. Drum-magazine for firearms. No. 1,008,162; Nov. 7; Sp. p. 1091; Gaz. vol. 172; p. 179.
Kroder, John, New York, N. Y. Bracket for stair-rods and the like. No. 980,646; Jan. 3; Sp. p. 1003; Gaz. vol. 162; p. 163.
Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Formation of an article and its application to another article. No. 981,200; Jan. 10; Sp. p. 2331; Gaz. vol. 162; p. 384.
Kroehler, Peter E., Naperville, Ill. Sofa-bed. No. 980,289; Jan. 3; Sp. p. 206; Gaz. vol. 162; p. 40.
Kroehler, Peter E., Naperville, assignor to S. Karpen & Brothers, Chicago, Ill. Sofa-bed. No. 988,721; Apr. 4; Sp. p. 934; Gaz. vol. 165; p. 148.
Kroehler, Peter E., and W. Petterson, Sr., Naperville, assignors, by mesne assignments, to S. Karpen & Bros., Chicago, Ill. Sofa-bed. No. 987,998; Mar. 28; Sp. p. 4794; Gaz. vol. 164; p. 855.
Kroeschell Bros. Ice Machine Co. (See Wittenmeier, Frederick, assignor.)
Kroeschell Brothers Company. (See Schwartz, Edward H., assignor.)
Kroeze, John W., Burlingame, Cal. Panel-sanding machine. No. 998,351; July 18; Sp. p. 3831; Gaz. vol. 168; p. 680.
Krogh, Carl A., San Francisco, Cal. Balancing device for thrust-bearings. No. 992,005; May 9; Sp. p. 2486; Gaz. vol. 166; p. 442.
Krogh, Ferdinand W., San Francisco, Cal. Air-seal. No. 994,937; June 13; Sp. p. 1864; Gaz. vol. 167; p. 328.
Krohn, Christian, New York, N. Y. Propelling device. No. 992,676; May 16; Sp. p. 3952; Gaz. vol. 166; p. 705.
Kroll, Adam J., Chicago, Ill. Shoe-support. No. 995,793; June 20; Sp. p. 3725; Gaz. vol. 167; p. 649.
Kroll, George P., and H. Weber, Pekin, Ill. Barrel-cleaning machine. No. 996,864; July 4; Sp. p. 547; Gaz. vol. 168; p. 90.
Kromann, Niels, Whittier, Cal. Harpoon. No. 1,002,709; Sept. 5; Sp. p. 1164; Gaz. vol. 170; p. 176.
Krompigel, Matthiss, Brier Hill, Pa. Railway-tie and rail-fastening. No. 1,012,370; Dec. 19; Sp. p. 4418; Gaz. vol. 173; p. 756.
Krôn, Paul, Levallois-Perret, France. Push-rod for delivery-valves of internal-combustion engines. No. 992,677; May 16; Sp. p. 3953; Gaz. vol. 166; p. 705.
Krone, Frederick W., Jr., Los Angeles, Cal. Frost-preventing apparatus. No. 994,412; June 6; Sp. p. 647; Gaz. vol. 167; p. 110.
Kronman, Edward, Brooklyn, N. Y. Combined sterilizing and water-heating apparatus. No. 1,004,036; Sept. 26; Sp. p. 4073; Gaz. vol. 170; p. 734.
Kropp, Walter, and L. Taub, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Derivative of phenylalkylacetic acid. No. 996,096; June 27; Sp. p. 4353; Gaz. vol. 167; p. 788.
Krotz, Alvaro S., assignor to Sears, Roebuck & Company, Chicago, Ill. Gearing. No. 1,003,052; Sept. 12; Sp. p. 1917; Gaz. vol. 170; p. 331.
Krouse, Charles C., Williamsport, Pa., assignor to Williamsport Staple Company. Bridle-blinker. No. 996,931; July 4; Sp. p. 686; Gaz. vol. 168; p. 113.
Kroyer, John M., assignor to Samson Iron Works, Stockton, Cal. Reverse friction-strap. No. 1,007,004; Oct. 24; Sp. p. 5389; Gaz. vol. 171; p. 944.
Kruckow, Carl A., Halle-on-the-Saale, Germany, assignor of one-half to McMeen & Miller, Chicago, Ill. Telephone repeater-circuit. No. 990,365; Apr. 25; Sp. p. 4468; Gaz. vol. 165; p. 791.
Krueger, Asaph, and B. Kramlich, Colfax, Wash. Riding attachment for harrows. No. 1,011,819; Dec. 12; Sp. p. 3185; Gaz. vol. 173; p. 532.
Krueger, Ernst C., and J. W. Mann, Chicago, Ill. Parting compound. No. 996,590; June 27; Sp. p. 5464; Gaz. vol. 167; p. 956.
Krueger, Henry L. E., assignor to Tufting Machine Supply Company, Chicago, Ill. Upholstery-machine. No. 1,004,037; Sept. 26; Sp. p. 4074; Gaz. vol. 170; p. 734.
Krug, Louis. (See Weis and Krug.)
Kruger, Harry B. (See Stranders, Julien, assignor.)
Kruh, Osias O., Schenectady, N. Y., assignor to General Electric Company. High-voltage mercury-arc rectifier. No. 993,843; May 30; Sp. p. 6482; Gaz. vol. 166; p. 1168.
Kruh, Osias O., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 996,865; July 4; Sp. p. 552; Gaz. vol. 168; p. 91.
Krum, Charles L., assignor to Morkrum Company, Chicago, Ill. Printing-telegraph. No. 1,004,038; Sept. 26; Sp. p. 4076; Gaz. vol. 170; p. 734.
Krumhaar, Frederick E. R., and S. J. Malboeuf, Chicago, Ill. Clamp. No. 983,148; Jan. 31; Sp. p. 6501; Gaz. vol. 162; p. 1130.
Krumm, Louis R., Columbus, Ohio. Distance control system. No. 1,003,919; Sept. 19; Sp. p. 3734; Gaz. vol. 170; p. 666.
Krupp, Chris G. (See Neel, Walter C., assignor.)
Kruse, Edward H., Fort Wayne, Ind. Adjustable holder for insulating-looms. No. 989,853; Apr. 18; Sp. p. 3353; Gaz. vol. 165; p. 585.
Kruse, Edward H., Fort Wayne, Ind. Adjustable switch-box. No. 989,854; Apr. 18; Sp. p. 3355; Gaz. vol. 165; p. 585.
Kruse, Peter, New York, N. Y. Machine for applying adhesives to can-heads. No. 986,469; Mar. 14; Sp. p. 1506; Gaz. vol. 164; p. 272.
Kruse, Peter, New York, N. Y. Machine for applying adhesives to can-heads. No. 986,470; Mar. 14; Sp. p. 1511; Gaz. vol. 164; p. 272.
Kruskopf, Hermann, Dortmund, Germany. Preventing explosions of coal-dust in coal-mines. No. 995,261; June 13; Sp. p. 2516; Gaz. vol. 167; p. 435.
Krzewinski, Mikolaj, Sacramento, Cal. Lunch-heater. No. 1,000,610; Aug. 15; Sp. p. 3012; Gaz. vol. 169; p. 549.
Krzewinski, Mikolaj, and M. Wojcik, Sacramento, assignors of one-third to J. Donanowski, Sacramento county, Cal. Combination bed, sofa, and swing. No. 1,006,954; Oct. 24; Sp. p. 5276; Gaz. vol. 171; p. 928.
Ksiazek, Ignacy, Chicago, Ill. Safety-fender for automobiles. No. 986,832; Mar. 14; Sp. p. 2285; Gaz. vol. 164; p. 396.
Kubein, Paul, Atco, N. J. Poultry-house. No. 982,435; Jan. 24; Sp. p. 4986; Gaz. vol. 162; p. 863.
Kubel, Stephen J., and A. H. Linsenmeyer, Washington, D. C. Making printing-plates. No. 980,290; Jan. 3; Sp. p. 209; Gaz. vol. 162; p. 41.
Kubelka, Ludmilla, assignor to T. Friedmann, Vienna, Austria-Hungary. Securing natural or artificial hair in pulp. No. 1,000,525; Aug. 15; Sp. p. 2801; Gaz. vol. 169; p. 517.
Kubersky, Louis, and H. Shrock, Brooklyn, N. Y. Compartment-receptacle. No. 992,006; May 9; Sp. p. 2488; Gaz. vol. 166; p. 443.
Kubinyi, Jozsef, Buford, Wyo. Envelop. No. 1,007,455; Oct. 31; Sp. p. 6378; Gaz. vol. 171; p. 1158.
Kublanck, Otto, Wittenberge, near Potsdam, Germany. Device for locking the doors of emergency-exits. No. 990,750; Apr. 25; Sp. p. 5352; Gaz. vol. 165; p. 924.
Kublin, Frederick W., St. Louis, Mo. Bung spout or funnel. No. 998,352; July 18; Sp. p. 3834; Gaz. vol. 168; p. 681.
Kuebler, Charles H. (See Whiting, William L., assignor.)
Kuebler, Effie C., Chicago, Ill. Chafing-shields. No. 995,687; June 20; Sp. p. 3475; Gaz. vol. 167; p. 612.
Kuechenmiester, John H., assignor to St. Louis Paper Can & Tube Company, St. Louis, Mo. Die for perforating can-tops. No. 987,144; Mar. 21; Sp. p. 2892; Gaz. vol. 164; p. 531.
Kuehl, Edward E., Verdigris, Nebr. Brake-lever. No. 1,012,371; Dec. 19; Sp. p. 4421; Gaz. vol. 173; p. 757.
Kuehl, Otto E. (See Swenson, Charles A., assignor.)
Kuehner, Charles, assignor, by mesne assignments, to George W. Dover Company, Providence, R. I. Pin. No. 985,351; Feb. 28; Sp. p. 4537; Gaz. vol. 163; p. 814.
Kuehner, Charles, assignor to O. Kuehner, Providence, R. I. Pin. No. 1,001,961; Aug. 29; Sp. p. 5930; Gaz. vol. 169; p. 1074.
Kuehner, Ottilie. (See Kuehner, Charles, assignor.)
Kuehner, Ottilie, Providence, R. I. Shoe-lace cap. No. 990,991; May 2; Sp. p. 345; Gaz. vol. 166; p. 59.
Kuehny, August, *et al.* (See Kuehny, Charles O, assignor.)
Kuehny, Charles O., Lakewood, assignor of one-fourth to W. Kuehny, one-fourth to A. Kuehny, and one-fourth to J. H. Jansen, Cleveland, Ohio. Reversible window-sash. No. 999,802; Aug. 8; Sp. p. 1208; Gaz. vol. 169; p. 237.
Kuehny, Wendelin, *et al.* (See Kuehny, Charles O., assignor.)

Alphabetical list of patentees—Continued.

Kuenzel, Charles A., Buena Vista, Colo. Airship. No. 986,579; Mar. 14; Sp. p. 1746; Gaz. vol. 164; p. 309.
Kuenzel, Charles A., Buena Vista, Colo. Airship. No. 987,380; Mar. 21; Sp. p. 3423; Gaz. vol. 164; p. 614.
Kuenzel, Charles A., Buena Vista, Colo. Airship. No. 1,004,662; Oct. 3; Sp. p. 235; Gaz. vol. 171; p. 41.
Kugel, Max, Leverkusen, near Cologne, Germany, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Anthraquinone vat dye. No. 985,352; Feb. 28; Sp. p. 4539; Gaz. vol. 163; p. 815.
Kugel, Max, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 994,756; June 13; Sp. p. 1450; Gaz. vol. 167; p. 267.
Kügelgen, Franz von. (See Seward and Kügelgen.)
Kugler, Albert, New York, N. Y. Carbureter. No. 1,006,663; Oct. 24; Sp. p. 4640; Gaz. vol. 171; p. 827.
Kuhajda, Joseph, New York, N. Y. Filter. No. 991,215; May 2; Sp. p. 829; Gaz. vol. 166; p. 141.
Kuhajda, Joseph, New York, N. Y. Hot-air engine. No. 1,010,153; Nov. 28; Sp. p. 5510; Gaz. vol. 172; p. 987.
Kuhl, Burchard, Orlando, Fla., assignor to Smith & Hemenway Company, New York, N. Y. Ice-cream freezer. No. 995,610; June 20; Sp. p. 3318; Gaz. vol. 167; p. 584.
Kuhlman, Albert G., Youngstown, Ohio. Reamer attachment for die-stocks. No. 1,009,672; Nov. 21; Sp. p. 4515; Gaz. vol. 172; p. 777.
Kuhlman, John W. (See Ploughe, Isaac J., assignor.)
Kuhlman, N. D., *et al.* (See Silva, Claude L., assignor.)
Kuhlmann, Karl, Berlin, Germany, assignor to General Electric Company. Condenser. No. 1,000,925; Aug. 15; Sp. p. 3671; Gaz. vol. 169; p. 659.
Kühn, Albert. (See Siebert and Kühn.)
Kühn, August, Marchegg, near Vienna, Austria-Hungary. Magnetic separator. No. 981,092; Jan. 10; Sp. p. 2092; Gaz. vol. 162; p. 346.
Kuhn, Charles, New York, N. Y. Dumping-hopper. No. 984,010; Feb. 14; Sp. p. 1660; Gaz. vol. 163; p. 286.
Kuhn, Edward, Memphis, Tenn. Reversible belt. No. 984,570; Feb. 21; Sp. p. 2869; Gaz. vol. 163; p. 511.
Kuhn, Emil, Stäfa, Switzerland. Sparking plug. No. 995,543; June 20; Sp. p. 3148; Gaz. vol. 167; p. 560.
Kuhn, Emil J., West Englewood, N. J., assignor of one-fourth to W. C. Moore, Jr., New York, N. Y. Bag-fastening handle. No. 1,003,920; Sept. 19; Sp. p. 3737; Gaz. vol. 170; p. 666.
Kuhn, Frank. (See Kuhn and Shailor.)
Kuhn, Franz, Cassel, Germany. Manufacture of sterile catgut. No. 1,006,854; Oct. 24; Sp. p. 5071; Gaz. vol. 171; p. 894.
Kuhn, Harry A., Pittsburg, Pa. Mining coal. No. 981,201; Jan. 10; Sp. p. 2333; Gaz. vol. 162; p. 384.
Kuhn, Harry S., Waynesboro, Pa. Vise. No. 1,000,416; Aug. 15; Sp. p. 2571; Gaz. vol. 169; p. 479.
Kuhn, Harry S., Waynesboro, Pa. Turret-vise. No. 1,000,417; Aug. 15; Sp. p. 2573; Gaz. vol. 169; p. 479.
Kuhn, Henry G. M., Spencertown, N. Y. Pickax. No. 982,832; Jan. 31; Sp. p. 5828; Gaz. vol. 162; p. 1025.
Kuhn, Jonas, Warsaw, Ohio. Screw-puncher. No. 1,008,276; Nov. 7; Sp. p. 1360; Gaz. vol. 172; p. 222.
Kuhn, Max. (See Loebl and Kuhn.)
Kuhn, Robert, F. Kuhn, and F. E. Shailor, assignors to American Electrical Heater Company, Detroit, Mich. Electric heater. No. 1,006,104; Oct. 17; Sp. p. 3354; Gaz. vol. 171; p. 599.
Kuhn, Rudolph C., Minneapolis, Minn. Phonograph-record cabinet. No. 1,004,281; Sept. 26; Sp. p. 4626; Gaz. vol. 170; p. 818.
Kuhne, Bernard G. (See Daniels and Kuhne.)
Kühne, Ernst, Bremen, Germany. Feed-water de-aerator. No. 990,992; May 2; Sp. p. 346; Gaz. vol. 166; p. 60.
Kuhns, William H., *et al.* (See Koch, John F., assignor.)
Kukkuck, Frederick, St. Louis, Mo. Drying-rack. No. 1,011,971; Dec. 19; Sp. p. 3540; Gaz. vol. 173; p. 619.
Kukuruda, Edward, Saginaw, Mich. Wrench. No. 983,728; Feb. 7; Sp. p. 1008; Gaz. vol. 163; p. 160.
Kulka, Otto, assignor to C. F. Sander, Hamburg, Germany. Oil-cooled transformer. No. 1,002,527; Sept. 5; Sp. p. 773; Gaz. vol. 170; p. 113.
Kull, Samuel B., New York, N. Y. Non-refillable bottle. No. 999,803; Aug. 8; Sp. p. 1210; Gaz. vol. 169; p. 237.
Kullander, Frank O., Kensington, Minn. Harvester reel attachment. No. 982,072; Jan. 17; Sp. p. 4246; Gaz. vol. 162; p. 707.
Kuller, Charles V., Judson, N. D. Automatic locking break-pin. No. 1,006,567; Oct. 24; Sp. p. 4455; Gaz. vol. 171; p. 795.
Kullmer, Charles, Syracuse, N. Y. Weather-map. No. 1,002,851; Sept. 12; Sp. p. 1486; Gaz. vol. 170; p. 263.
Kultchar, Mark R. (See Lundquist, Ernest F. T., assignor.)
Kummer, Frederick A., New York, N. Y. Extracting volatile products from wood. No. 984,818; Feb. 21; Sp. p. 3400; Gaz. vol. 163; p. 599.
Kumming, Emil A. (See Smith and Kumming.)
Kumpf, Heinrich, Stuttgart, Germany. Insulating means for pipes and the like. No. 990,658; Apr. 25; Sp. p. 5151; Gaz. vol. 165; p. 893.
Kun, Andreas, Sharpsville, Pa. Rail-joint. No. 1,010,923; Dec. 5; Sp. p. 1168; Gaz. vol. 173; p. 183.
Kunde, Walther, Dresden, Germany. Cutter for wrapping-thread. No. 985,531; Feb. 28; Sp. p. 4957; Gaz. vol. 163; p. 877.
Kündig-Honegger, Arnold, Zurich, Switzerland. Street-dust-removing machine. No. 983,293; Feb. 7; Sp. p. 74; Gaz. vol. 163; p. 14.
Kundtz, Theodor. (See Cogger, William B., assignor.)
Kundtz, Theodor, Lakewood, Ohio. Blower, exhauster, and the like. No. 996,651; July 4; Sp. p. 116; Gaz. vol. 168; p. 21.
Kundtz, Theodor, Lakewood, Ohio. Blower, exhauster, and the like. No. 1,004,039; Sept. 26; Sp. p. 4087; Gaz. vol. 170; p. 735.
Kunheim and Co. (See Huber, Adolf, assignor.)
Kunick, Johannes, Berlin, Germany. Drying liquids. No. 1,012,866; Dec. 26; Sp. p. 5494; Gaz. vol. 173; p. 972.
Kunicke, George, New York, N. Y. Flying-machine. No. 994,757; June 13; Sp. p. 1451; Gaz. vol. 167; p. 267.
Kunkel, Frederick H. (See Haerter and Kunkel.)
Kunkel, Friedrich. (See Banning and Kunkel.)
Kunkle, Lorenza H., Altoona, Pa. Automatic tool-forging machine. No. 999,661; Aug. 1; Sp. p. 913; Gaz. vol. 169; p. 159.
Künkler, Albert, Mannheim, Germany. Gas-burner. No. 1,003,053; Sept. 12; Sp. p. 1919; Gaz. vol. 170; p. 331.
Kunst-Plastik-Gesellschaft mit beschränkter Haftung. (See Hermann, Heinrich P., assignor.)
Kunstwerkzeuge G. m. b. H. Schule Reimann. (See Reimann and Schneider, assignors.)
Kuntz, Charles E., South Bend, Ind. Dowel cutting and chamfering machine. No. 1,005,982; Oct. 17; Sp. p. 3104; Gaz. vol. 171; p. 558.
Kuntzendorf, Charles A., Chicago, Ill. Display-rack for trunks. No. 986,725; Mar. 14; Sp. p. 2050; Gaz. vol. 164; p. 359.
Kuntzendorf, Charles A., Chicago, Ill. Trunk. No. 1,003,616; Sept. 19; Sp. p. 3122; Gaz. vol. 170; p. 562.
Kuny, Hans. (See Handschin and Kuny.)
Kunz, Charles L., assignor to The M. G. Madson Seed Company, Manitowoc, Wis. Display-cabinet. No. 1,008,722; Nov. 14; Sp. p. 2470; Gaz. vol. 172; p. 418.
Kunz, Edward L., assignor to J. H. Morgan, Buffalo, N. Y. Chair. No. 998,909; July 25; Sp. p. 5063; Gaz. vol. 168; p. 908.
Kunz, Edward L., assignor to J. H. Morgan, Buffalo, N. Y. Foldable chair. No. 999,043; July 25; Sp. p. 5376; Gaz. vol. 168; p. 956.
Kunz, George C., Manitowoc, Wis. Sleeve-holding device. No. 1,003,472; Sept. 19; Sp. p. 2798; Gaz. vol. 170; p. 512.
Kunz, Jean, Cronberg, Germany. Ice-grip for boots or shoes. No. 990,883; May 2; Sp. p. 121; Gaz. vol. 166; p. 23.
Kunz, Max A., Mannheim, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Anthracene dye. No. 992,567; May 16; Sp. p. 3740; Gaz. vol. 166; p. 669.
Kunze, August, Milwaukee, Wis. Mouthpiece for musical instruments. No. 1,012,140; Dec. 19; Sp. p. 3928; Gaz. vol. 173; p. 679.
Kunzer, Louis G. (See Lewis and Kunzer.)
Künzi, Philipp. (See Hager and Künzi.)
Kupferle, Edward, St. Louis, Mo. Measuring-pump. No. 981,661; Jan. 17; Sp. p. 3318; Gaz. vol. 162; p. 564.
Kupka, Joseph S. (See Stout and Kupka.)
Kurlbaum, William, Vina, Cal. Fly-trap. No. 993,844; May 30; Sp. p. 6484; Gaz. vol. 166; p. 1168.
Kurowski, Alfred G. F., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 982,183; Jan. 17; Sp. p. 4440; Gaz. vol. 162; p. 744.
Kurrell, Theodor. (See Dietsch and Kurrell.)
Kurschus, George, Hastings, Mich. Clutch for punch-presses. No. 1,012,657; Dec. 26; Sp. p. 5008; Gaz. vol. 173; p. 899.
Kursheedt Manufacturing Co. (See Groebli, Joseph A., assignor.)
Kurth, Theodor, Berlin, Germany. Violin-bow. No. 1,000,611; Aug. 15; Sp. p. 3013; Gaz. vol. 169; p. 549.
Kurtz, Adolph. (See Knollenberg, William E., assignor.)
Kurtz, Charles T. (See Breck and Kurtz.)
Kurtz, Fridolin W., New York, N. Y. Electric switch. No. 983,908; Feb. 14; Sp. p. 1429; Gaz. vol. 163; p. 253.
Kurtz, John C., and S. Buchanan, Dayton, Ohio. Hydrocarbon-burner. No. 1,005,561; Oct. 10; Sp. p. 2172; Gaz. vol. 171; p. 378.
Kurtz, Samuel E. (See Cook and Kurtz.)
Kurtz, Stewart S. (See White, Harry B., assignor.)
Kurtz, William F., Forest, Ohio. Corn-crib. No. 996,262; June 27; Sp. p. 4761; Gaz. vol. 167; p. 844.
Kurtz, William M., and M. R. May, Athens, Ohio. Closet-seat. No. 995,355; June 13; Sp. p. 2731; Gaz. vol. 167; p. 467.
Kurtzon, George B. (See Kurtzon, Morris and G. B.)
Kurtzon, Morris and G. B., Chicago, Ill. Drawer-pull. No. 981,772; Jan. 17; Sp. p. 3554; Gaz. vol. 162; p. 603.
Kurz, Christian A., Jr., and G. G. Dedekind, Dayton, Ohio. Fuel-gas burner. No. 992,966; May 23; Sp. p. 4595; Gaz. vol. 166; p. 838.

Alphabetical list of patentees—Continued.

Kurz, Leonhard, Fuerth, Germany. Composition for making gold-leaf. No. 982,370; Jan. 24; Sp. p. 4857; Gaz. vol. 162; p. 841.
Kurzman, Seymour P., New York, N. Y. Cutting implement. No. 1,002,710; Sept. 5; Sp. p. 1166; Gaz. vol. 170; p. 176.
Kurzwernhart, Adalbert, assignor to E. Reitler, Vienna, Austria-Hungary. Self-feeding stove. No. 996,263; June 27; Sp. p. 4762; Gaz. vol. 167; p. 844.
Kusnell, Joseph B., Philadelphia, Pa. Toy. No. 996,416; June 27; Sp. p. 5131; Gaz. vol. 167; p. 898.
Kuster, Daniel F., and G. J. Niemann, Washtucna, Wash. Plowing-machine. No. 990,659; Apr. 25; Sp. p. 5152; Gaz. vol. 165; p. 893.
Kuster, Frederick E., Cedartown, Ga. Tray-machine. No. 988,359; Apr. 4; Sp. p. 136; Gaz. vol. 165; p. 25.
Kuster, John A. (See Murphy, John, assignor.)
Kuster, William F., assignor to H. J. Raffensperger, Indianapolis, Ind. Coin-controlled lock. No. 999,044; July 25; Sp. p. 5377; Gaz. vol. 168; p. 956.
Kusterer, Carl C., assignor to Keeler Brass Co., Grand Rapids, Mich. Hood-fastener for automobiles. No. 1,012,658; Dec. 26; Sp. p. 5009; Gaz. vol. 173; p. 899.
Kutchan, Paul, near Petersburg, Va. Hay-curing frame. No. 1,003,921; Sept. 19; Sp. p. 3738; Gaz. vol. 170; p. 666.
Kutsch, Mathews J., Tarentum, Pa. Rail-joint. No. 980,291; Jan. 3; Sp. p. 212; Gaz. vol. 162; p. 41.
Kutscha, Valentine M., Scotch Plains, N. J. Balance-controller for aeroplanes. No. 992,678; May 16; Sp. p. 3955; Gaz. vol. 166; p. 705.
Kutsche, Oswald E., Pittsburg, Pa. Poultry-feeder. No. 989,613; Apr. 18; Sp. p. 2838; Gaz. vol. 165; p. 502.
Kutter, Herman L., assignor of one-half to F. C. Trowbridge, Hamilton, Ohio. Paper-making machine. No. 993,692; May 30; Sp. p. 6169; Gaz. vol. 166; p. 1116.
Kutter, Viktor. (See Rosset, Schwenk, and Kutter.)
Kuzaroff, Constandin. (See Muth, Carl H. E. G., assignor.)
Kvindegard, Lars, Innisfree, Alberta, Canada. Safety lamp-extinguisher. No. 994,758; June 13; Sp. p. 1453; Gaz. vol. 167; p. 268.
Kwiatkowski, Ignace, Cleveland, Ohio. Curtain-hanging device. No. 998,536; July 18; Sp. p. 4196; Gaz. vol. 168; p. 743.
Kwis, Arthur F., Cleveland, Ohio, assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 992,883; May 23; Sp. p. 4403; Gaz. vol. 166; p. 808.
Kyle, Edward J., Harrisburg, Pa. Door-check. No. 1,006,234; Oct. 17; Sp. p. 3670; Gaz. vol. 171; p. 647.
Kyle, Edward J., assignor of one-half to A. S. Miller, Harrisburg, Pa. Bread-knife. No. 1,012,659; Dec. 26; Sp. p. 5011; Gaz. vol. 173; p. 899.
Kyle, George B., Philadelphia, Pa. Wooden column. No. 1,000,822; Aug. 15; Sp. p. 3457; Gaz. vol. 169; p. 623.
Kyle, Samuel H., and G. Laenhardt, Gilman, Ill. Card game. No. 1,000,095; Aug. 8; Sp. p. 1863; Gaz. vol. 169; p. 337.
Kyll, Franz, Cologne, Germany. Rectifying-column. No. 999,320; Aug. 1; Sp. p. 239; Gaz. vol. 169; p. 45.
Kyng-B Shoe Company. (See Landry, Valère, assignor.)
L. Wolff Manufacturing Company. (See Beck and Lindsay, assignors.)
L. Wolff Manufacturing Company. (See Clifford and Gavin, assignors.)
L. A. Williamson Company. (See Williamson, Leroy A., assignor.)
L. B. B. Faucet Company. (See La Londe and Brunelle, assignors.)
L. C. Smith & Bros. Typewriter Company. (See Gabrielson, Carl, assignor.)
L. H. Nelson Company. (See Ellis, John W., assignor.)
L. S. Starrett Company. (See Simpson, Robert J., assignor.)
L. S. Starrett Company. (See Starrett, Laroy S., assignor.)
L'Enfant, Charles, New York, N. Y. Cigar-case. No. 1,000,025; Aug. 8; Sp. p. 1669; Gaz. vol. 169; p. 313.
L'Engle, William J., New Orleans, La. Turpentine-cup. No. 1,011,823; Dec. 12; Sp. p. 3192; Gaz. vol. 173; p. 533.
L'heureux, Oréus, St. Paul de Chester, Quebec, Canada. Level. No. 986,924; Mar. 14; Sp. p. 2475; Gaz. vol. 164; p. 428.
La Barr, Frank B. (See Barker and La Barr.)
La Bate, James H., Brockton, Mass. Machine for applying cement to tape, &c. No. 999,458; Aug. 1; Sp. p. 520; Gaz. vol. 169; p. 91.
La Batt, Homer C., assignor to W. J. Herrick, Chicago, Ill. Stop-register for sheet-feeding machines. No. 986,726; Mar. 14; Sp. p. 2053; Gaz. vol. 164; p. 360.
La Batt, Homer C., assignor to W. J. Herrick, Chicago, Ill. Sheet-feeding machine. No. 1,003,473; Sept. 19; Sp. p. 2799; Gaz. vol. 170; p. 513.
La Bau, William V., Poughkeepsie, N. Y. Railway-tie. No. 997,452; July 11; Sp. p. 1768; Gaz. vol. 168; p. 321.
La Baum, Francis M., Del Rio, Tex. Insect-trap. No. 988,476; Apr. 4; Sp. p. 400; Gaz. vol. 165; p. 64.
La Belle, Peter J., assignor of one-half to E. Wald, Birmingham, Ala. Sash-lock. No. 988,114; Mar. 28; Sp. p. 5035; Gaz. vol. 164; p. 893.
La Casse, Henry, Auburn, N. Y. Ball-bearing. No. 1,000,612; Aug. 15; Sp. p. 3014; Gaz. vol. 169; p. 550.
La Chapelle, Euclid I., Beverly, Mass. Mechanism for turning and relasting what is known as turn-shoes. No. 1,009,321; Nov. 21; Sp. p. 3792; Gaz. vol. 172; p. 660.
La Chapelle, Euclid I., Beverly, Mass. Mechanism for turning what is known as turn-shoes. No. 1,011,067; Dec. 5; Sp. p. 1454; Gaz. vol. 173; p. 231.
La Continentale Fixator. (See Wehrlin, Daniel, assignor.)
La Croix, Joseph, Southbridge, Mass. Heel-support. No. 984,571; Feb. 21; Sp. p. 2870; Gaz. vol. 163; p. 511.
La Crosse Hay Tool Company. (See Smith, Orbin F., assignor.)
La Fave, Joseph H., Defiance, Ohio. Metal bilge-barrel. No. 991,327; May 2; Sp. p. 1080; Gaz. vol. 166; p. 180.
La Follette, Joseph, Portland, Oreg. Combined bevel, protractor, and rule. No. 996,591; June 27; Sp. p. 5465; Gaz. vol. 167; p. 956.
La Framboise, Julia. (See Cooney, William E., assignor.)
La Kamp, Jennie, Buford, Colo. Fruit-jar holder. No. 1,001,535; Aug. 22; Sp. p. 4978; Gaz. vol. 169; p. 898.
La Londe, Moses, A. J. and H. A. Brunelle, assignors to L. B. B. Faucet Company, Springfield, Mass. Valve. No. 993,693; May 30; Sp. p. 6174; Gaz. vol. 166; p. 1116.
La May, Arthur C. (See Purchas and La May.)
La Pierre, Adelard. (See MacDonald, Donald G., assignor.)
La Roche, Dean. (See Deziel, John H., assignor.)
La Rue, Guy R., Tell City, Ind. Grease-cup filler. No. 980,804; Jan. 3; Sp. p. 1339; Gaz. vol. 162; p. 215.
La Shell, George M., and W. A. Swem, Denver, Colo. Loading and unloading device. No. 989,910; Apr. 18; Sp. p. 3470; Gaz. vol. 165; p. 603.
La Société "Antoinette." (See Levavasseur, Léon M. J. C., assignor.)
La Société Compagnie Industrielle des Alcools de l'Ardèche. (See Raisin, Victor, assignor.)
La Societe l'Air Liquide. (See Claude, Georges, assignor.)
La Tier, James D., and L. E. Dietel, assignors to H. C. Bruns, Waterloo, Iowa. Knockdown silo. No. 994,525; June 6; Sp. p. 883; Gaz. vol. 167; p. 146.
La Valette, Henri de, Paris, France. Mechanism for governing explosive-engines. No. 999,046; July 25; Sp. p. 5380; Gaz. vol. 168; p. 957.
La Voo, George W., Steubenville, Ohio. Pipe and socket holder. No. 992,887; May 23; Sp. p. 4412; Gaz. vol. 166; p. 810.
Laabs, Max A., New York, N. Y. Machine for grinding lenses. No. 998,101; July 18; Sp. p. 3267; Gaz. vol. 168; p. 589.
Laake, Hermann, Detroit, Mich. Combination postal card and letter. No. 989,614; Apr. 18; Sp. p. 2841; Gaz. vol. 165; p. 502.
Laas, Louis A., Maxwell, Tex. Automatic gate. No. 995,262; June 13; Sp. p. 2517; Gaz. vol. 167; p. 435.
Labadie, Victor, Dallas, Tex. Attachment for diaphragm face-plates. No. 986,182; Mar. 7; Sp. p. 893; Gaz. vol. 164; p. 144.
Labelle, Louis V., Joliette, Quebec, Canada. Weight-recording apparatus. No. 989,785; Apr. 18; Sp. p. 3200; Gaz. vol. 165; p. 562.
Laber, John B. (See Glover and Laber.)
Laber, John J., Harrisburg, Ill. Truck. No. 986,580; Mar. 14; Sp. p. 1749; Gaz. vol. 164; p. 310.
Labofish, Louis W., Washington, D. C., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,000,019; Aug. 8; Sp. p. 1656; Gaz. vol. 169; p. 311.
Labombarde, Elie W., Nashua, N. H. Box-folding machine. (Reissue.) No. 13,198; Jan. 31; Sp. p. 6748; Gaz. vol. 162; p. 1170.
Labombarde, Elie W., Nashua, N. H. Mechanism for feeding blanks, sheets, and the like. No. 1,011,820; Dec. 12; Sp. p. 3187; Gaz. vol. 173; p. 532.
Laborenz, Hugo, Pforzheim, Germany. Apparatus for making chain-mail work. No. 997,453; July 11; Sp. p. 1770; Gaz. vol. 168; p. 321.
Labre, Henri, Levallois-Perret, France. Resilient wheel. No. 992,213; May 16; Sp. p. 2928; Gaz. vol. 166; p. 544.
Lace, Edward, Chicago, Ill. Gambrel. No. 1,006,955; Oct. 24; Sp. p. 5278; Gaz. vol. 171; p. 928.
Lacene Manufacturing Company. (See Nichols, Elmer P., assignor.)
Lacey, Charles E., *et al.* (See Michael, Anceal C., assignor.) (Reissue.)
Lacey, Elmer B., Union, N. Y. Silo-hoop. No. 1,003,617; Sept. 19; Sp. p. 3124; Gaz. vol. 170; p. 563.
Lacey, Fred, Lowell, Mass. Adjustable harness-link for looms. No. 1,009,533; Nov. 21; Sp. p. 4262; Gaz. vol. 172; p. 534.
Lacey, Frederick W., Bournemouth, England, assignor to Westinghouse Electric and Manufacturing Company. Controller for electric motors. No. 1,007,456; Oct. 31; Sp. p. 6379; Gaz. vol. 171; p. 1158.
Lacey, Peter. (See Baker, George J., assignor.)
Lacey, Robert A., Bath, Ill. Mowing-machine. No. 1,002,160; Aug. 29; Sp. p. 6288; Gaz. vol. 169; p. 1137.

Alphabetical list of patentees—Continued.

Lachaîne, Joseph A., St. Martin, Quebec, Canada. Combined heater and cook-stove. No. 1,000,020; Aug. 8; Sp. p. 1658; Gaz. vol. 169; p. 311.
Lachki, Johan, Cleveland, Ohio. Fender-brace for automobiles. No. 999,804; Aug. 8; Sp. p. 1211; Gaz. vol. 169; p. 238.
Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Transformer for electric metal-working apparatus. No. 981,662; Jan. 17; Sp. p. 3320; Gaz. vol. 162; p. 564.
Lachman, Laurence S., assignor to Universal Electric Welding Company, New York, N. Y. Electric welding. No. 1,004,795; Oct. 3; Sp. p. 527; Gaz. vol. 171; p. 87.
Lachman, Maurice, New York, assignor to Universal Electric Welding Company, Long Island City, N. Y. Paper keg, barrel, box, &c. No. 1,012,867; Dec. 26; Sp. p. 5496; Gaz. vol. 173; p. 972.
Lackawanna Steel Company. (See Conkling, Cloud C., assignor.)
Lackawanna Steel Company. (See Kreidler, William A., assignor.)
Lackawanna Steel Company. (See Rafter, James M., assignor.) (Reissue.)
Lackawanna Steel Company. (See Sheldon, Samuel B., assignor.)
Lackey, Alexander, St. Louis, Mo. Mop-making machine. No. 984,093; Feb. 14; Sp. p. 1835; Gaz. vol. 163; p. 315.
Lackey, Alexander, St. Louis, Mo. Mop-head. No. 1,001,285; Aug. 22; Sp. p. 4479; Gaz. vol. 169; p. 814.
Lackie, George C., O. K., Miss. Combined cotton chopper, scraper, and cultivator. No. 980,803; Jan. 3; Sp. p. 1336; Gaz. vol. 162; p. 214.
Laclede-Christy Clay Products Company. (See Girtanner, Frederick, assignor.)
Lacombe, Louis N., New York, N. Y. Friction-gearing. No. 1,011,629; Dec. 12; Sp. p. 2808; Gaz. vol. 173; p. 468.
Lacroix, Fred, Brooklyn, assignor of two-fifths to J. A. Cantor, New York, N. Y. Battery-chute. No. 1,004,282; Sept. 26; Sp. p. 4628; Gaz. vol. 170; p. 818.
Lacroix, Joseph D., assignor to E. H. Davis, New York, N. Y. Cigar-machine. No. 1,011,127; Dec. 5; Sp. p. 1601; Gaz. vol. 173; p. 253.
Lacy, Thomas F., Sioux City, Iowa. Condiment-holder. No. 982,371; Jan. 24; Sp. p. 4858; Gaz. vol. 162; p. 841.
Ladd, Louis E., Newark, N. J. Safety-catch for jewelry. No. 982,372; Jan. 24; Sp. p. 4859; Gaz. vol. 162; p. 841.
Ladd, Sherman W., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Clicking-machine. No. 1,006,568; Oct. 24; Sp. p. 4457; Gaz. vol. 171; p. 795.
Ladd, Sherman W., and E. A. Stiggins, Beverly, Mass., assignors to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 999,233; Aug. 1; Sp. p. 78; Gaz. vol. 169; p. 16.
Ladd, Sherman W., Boston, and E. A. Stiggins, Beverly, Mass., assignors to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Gripper for lasting-machines. No. 1,005,234; Oct. 10; Sp. p. 1427; Gaz. vol. 171; p. 261.
Lademann, Otto T., Milwaukee, Wis., assignor to Railway Telephone & Electric Company, Chicago, Ill. Telegraph and telephone system. No. 987,582; Mar. 21; Sp. p. 3829; Gaz. vol. 164; p. 682.
Ladinski, Louis, New York, N. Y. Device for replacing belts. No. 1,000,271; Aug. 8; Sp. p. 2231; Gaz. vol. 169; p. 397.
Ladley, George W. (See Smith, Edward S., assignor.)
Ladwig, Arthur L., and J. Butkus, Chicago, Ill. Window-screen. No. 998,102; July 18; Sp. p. 3269; Gaz. vol. 168; p. 590.
Laenhardt, George. (See Kyle and Laenhardt.)
Lafferty, Erastus S., Galesburg, Ill. Railway-torpedo placer. No. 993,177; May 23; Sp. p. 5032; Gaz. vol. 166; p. 908.
Laflin, Stephen C., assignor to American Optical Company, Southbridge, Mass. Nose-guard for eyeglasses. No. 1,010,154; Nov. 28; Sp. p. 5513; Gaz. vol. 172; p. 988.
Lafore, John A., Cynwyd, Pa. Vacuum pump or compressor. No. 1,009,908; Nov. 28; Sp. p. 5008; Gaz. vol. 172; p. 904.
Lafrance, Joseph, Montreal, Quebec, Canada. Flush-valve. No. 1,006,956; Oct. 24; Sp. p. 5279; Gaz. vol. 171; p. 929.
Laganke, Charles F., Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Type-writing machine. No. 986,471; Mar. 14; Sp. p. 1514; Gaz. vol. 164; p. 272.
Lagergren, John E., Brooklyn, assignor to C. W. Schildwachter and G. J. Reessing, New York, N. Y. Locking device. No. 998,852; July 25; Sp. p. 4931; Gaz. vol. 168; p. 887.
Lagerwall, Charles J. (See Wade and Lagerwall.)
Lagodimos, Peter, Salem, Mass. Fly-trap. No. 986,833; Mar. 14; Sp. p. 2288; Gaz. vol. 164; p. 396.
Lagonda Manufacturing Company, The. (See Hauer, Elmer E., assignor.)
Lagonda Manufacturing Company, The. (See Holt, Harris B., assignor.)
Lagonda Manufacturing Company, The. (See Holt and Conn, assignors.)
Lagonda Manufacturing Company, The. (See Weinland, Henry F., assignor.)
Lahan, Edward J., Quincy, Ill. Base-ball mask. No. 991,859; May 9; Sp. p. 2201; Gaz. vol. 166; p. 393.
Lahl, Janan, Atlantic, Iowa. Adjustable head-rest for bath-tubs. No. 1,011,448; Dec. 12; Sp. p. 2345; Gaz. vol. 173; p. 401.
Lahr, Eugen, Würzburg, Germany. Fly-paper package. No. 985,423; Feb. 28; Sp. p. 4698; Gaz. vol. 163; p. 837.
Laiblin, William C. (See Maclean, Ira V., assignor.)
Laidacker, Nelson E. (See Mahon and Olschner, assignors.)
Laidley, Samuel C., Chicago, Ill. Fluid-actuated air-pump. No. 983,729; Feb. 7; Sp. p. 1010; Gaz. vol. 163; p. 161.
Laidley, Samuel C., Chicago, Ill. Automatic flushing-valve. No. 990,751; Apr. 25; Sp. p. 5353; Gaz. vol. 165; p. 924.
Laird, Ernst C. C., Ballarat, Victoria, Australia. Power-conveying belt. No. 982,073; Jan. 17; Sp. p. 4248; Gaz. vol. 162; p. 708.
Laizure, William, Silver City, N. Mex. Oil-burner. No. 1,004,040; Sept. 26; Sp. p. 4089; Gaz. vol. 170; p. 735.
Lake, Albert H., Jr., Fentonville, N. Y. Rotary spacer. No. 990,568; Apr. 25; Sp. p. 4946; Gaz. vol. 165; p. 863.
Lake, Christopher J., (name changed from J. C. Lake by judicial order,) Bridgeport, Conn. Air-craft. No. 998,295; July 18; Sp. p. 3704; Gaz. vol. 168; p. 660.
Lake, Christopher J., Bridgeport, Conn. Aerial machine. No. 1,008,479; Nov. 14; Sp. p. 1938; Gaz. vol. 172; p. 331.
Lake, Christopher J., Bridgeport, Conn. Flying-machine. No. 1,010,644; Dec. 5; Sp. p. 544; Gaz. vol. 173; p. 86.
Lake, Frank E., Guadalajara, Mexico. Motor-vehicle. No. 989,615; Apr. 18; Sp. p. 2842; Gaz. vol. 165; p. 503.
Lake, Frank T., Philadelphia, Pa. Hydrant. No. 998,782; July 25; Sp. p. 4772; Gaz. vol. 168; p. 862.
Lake, Golladay, Cleveland, Ohio. Cereal-percolator. No. 1,008,602; Nov. 14; Sp. p. 2212; Gaz. vol. 172; p. 377.
Lake, Golladay, Cleveland, Ohio. Heat distributer and accumulator for cooking vessels. No. 1,008,603; Nov. 14; Sp. p. 2213; Gaz. vol. 172; p. 377.
Lake, Golladay, Cleveland, Ohio. Hand-protector. No. 1,008,604; Nov. 14; Sp. p. 2215; Gaz. vol. 172; p. 377.
Lake, John C. (See Lake, Christopher J.)
Lake, Simon, Milford, Conn. Method of and apparatus for constructing hulls of vessels. No. 1,013,024; Dec. 26; Sp. p. 5862; Gaz. vol. 173; p. 1025.
Lake, William I., Detroit, Mich. Fire-escape. No. 1,001,865; Aug. 29; Sp. p. 5697; Gaz. vol. 169; p. 1042.
Lakeside Specialty Company. (See Canode, Frederick B., assignor.)
Lakin, Christopher C., *et al.* (See Chamberlain, Wheaton R., assignor.)
Lakó, Frank. (See Kanyasi and Lakó.)
Lallance, Theodore P., Huntington, W. Va. Door-operating device. No. 992,781; May 23; Sp. p. 4176; Gaz. vol. 166; p. 771.
Lallié, Norbert, Nantes, France. Fuel-feeder for gas-producers and heating apparatus. No. 998,699; July 25; Sp. p. 4570; Gaz. vol. 168; p. 833.
Lamar, Georgia A., Tucumcari, N. Mex. Washboiler. No. 995,158; June 13; Sp. p. 2323; Gaz. vol. 167; p. 402.
Lamb, Amherst G., assignor to Excelsior Needle Company, Torrington, Conn. Chain-stitch looper for lock-stitch sewing-machines. No. 990,660; Apr. 25; Sp. p. 5154; Gaz. vol. 165; p. 893.
Lamb, Charles C., assignor to B. Hallenstein, Chicago, Ill. Police signaling and controlling system. No. 1,006,235; Oct. 17; Sp. p. 3672; Gaz. vol. 171; p. 647.
Lamb, Clayton B., Los Angeles, Cal. Nut-lock No. 981,284; Jan. 10; Sp. p. 2545; Gaz. vol. 162; p. 415.
Lamb, Dumont P., Portland, Oreg. Hot-water bottle. No. 996,350; June 27; Sp. p. 4966; Gaz. vol. 167; p. 874.
Lamb, Frank. (See Tweedy, John N., assignor.)
Lamb, James B., assignor to The Ohio Varnish Company, Cleveland, Ohio. Graining-tool. No. 983,627; Feb. 7; Sp. p. 797; Gaz. vol. 163; p. 127.
Lamb, John R., Mason City, and J. Davies, Ansley, Nebr. Water-delivering apparatus. No. 1,008,830; Nov. 14; Sp. p. 2703; Gaz. vol. 172; p. 454.
Lamb, Mark R., assignor to Allis-Chalmers Company, Milwaukee, Wis. Decanting apparatus. No. 1,007,954; Nov. 7; Sp. p. 692; Gaz. vol. 172; p. 107.
Lamb, Nathan R., Pittsburg, Pa. Flying-machine. No. 1,002,528; Sept. 5; Sp. p. 774; Gaz. vol. 170; p. 113.
Lamb, Robert M., Brunswick, Ga. Baby-crib. No. 992,007; May 9; Sp. p. 2489; Gaz. vol. 166; p. 443.
Lamb, Walter, Hanover, Pa. Apparatus for holding and washing drinking vessels. No. 981,433; Jan. 10; Sp. p. 2886; Gaz. vol. 162; p. 466.
Lamb, William. (See Shields and Lamb.)
Lamb, William, and J. S. Shields, Detroit, Mich. Check-valve. No. 1,010,924; Dec. 5; Sp. p. 1169; Gaz. vol. 173; p. 183.
Lambe, Edwin E., Danbury, Conn. Sign-casing. No. 1,005,719; Oct. 10; Sp. p. 2520; Gaz. vol. 171; p. 433.
Lamberson, Addison R., Albany, N. Y. Indicator for spark-plugs. No. 995,878; June 20; Sp. p. 3907; Gaz. vol. 167; p. 678.
Lamberson, Alfred B. (See Hefty and Lamberson.)
Lambert, Andrew P., Corpus Christi, Tex. Trap. No. 986,015; Mar. 7; Sp. p. 563; Gaz. vol. 164; p. 90.

Alphabetical list of patentees—Continued.

Lambert, Benjamin F., assignor to The Buckeye Manufacturing Company, Anderson, Ind. Power-transmission mechanism. No. 1,008,831; Nov. 14; Sp. p. 2704; Gaz. vol. 172; p. 454.
Lambert, Christopher N., Seattle, Wash. Box-clamping machine. No. 989,161; Apr. 11; Sp. p. 1830; Gaz. vol. 165; p. 317.
Lambert, Floyd D., and R. R. Resch, Trinidad, Colo. Rotary engine. No. 1,001,204; Aug. 22; Sp. p. 4321; Gaz. vol. 169; p. 787.
Lambert, George A., Anderson, Ind. Vehicle-shaft-forming apparatus. No. 995,688; June 20; Sp. p. 3476; Gaz. vol. 167; p. 612.
Lambert, George W., Richmond, Va. Sea-wall construction. No. 1,002,161; Aug. 29; Sp. p. 6290; Gaz. vol. 169; p. 1138.
Lambert, Gerard B., New York, N. Y. Vehicle-wheel. No. 982,143; Jan. 17; Sp. p. 4369; Gaz. vol. 162; p. 730.
Lambert, Jay S., assignor of one-half to C. P. Cook, C. H. Whitehead, and H. A. Weisman, Marshalltown, Iowa. Ice-cutting machine. No. 983,909; Feb. 14; Sp. p. 1433; Gaz. vol. 163; p. 253.
Lambert, John W., assignor to The Buckeye Manufacturing Company, Anderson, Ind. Friction transmission mechanism. No. 1,011,449; Dec. 12; Sp. p. 2347; Gaz. vol. 173; p. 401.
Lambert, Thomas H. (See Hayes and Lambert.)
Lamberti, Francesco, Genoa, Italy. Rotary motor. No. 1,009,534; Nov. 21; Sp. p. 4263; Gaz. vol. 172; p. 534.
Lamberti, Peter, New York, N. Y. Check-controlled stamping-machine. No. 1,000,613; Aug. 15; Sp. p. 3020; Gaz. vol. 169; p. 550.
Lambeth, James B., Lebanon, Mo. Means for securing stovepipe-sections in position. No. 993,845; May 30; Sp. p. 6485; Gaz. vol. 166; p. 1168.
Lambie, Charles S., Wilkinsburg, Pa. Forming concrete manholes. No. 992,782; May 23; Sp. p. 4177; Gaz. vol. 166; p. 771.
Lambie, John. (See Lambie, Wrigley, and Lambie.)
Lambie, John M., C. R. Wrigley, and J. Lambie, London, England. Spring-washer. No. 1,010,391; Nov. 28; Sp. p. 6009; Gaz. vol. 172; p. 1066.
Lambright, Grant, Newark, N. J., assignor of one-half to F. A. Magowan, New York, N. Y. Pneumatic vehicle-tire. No. 996,351; June 27; Sp. p. 4967; Gaz. vol. 167; p. 875.
Lamburth, Cassius E., San Francisco, Cal. Airship. No. 983,243; Jan. 31; Sp. p. 6706; Gaz. vol. 162; p. 1163.
Lamburth, Cassius E., San Francisco, Cal. Airship. No. 983,244; Jan. 31; Sp. p. 6707; Gaz. vol. 162; p. 1164.
Lamburth, Cassius E., San Francisco, Cal. Aeroplane. No. 996,592; June 27; Sp. p. 5466; Gaz. vol. 167; p. 956.
Lamkin, Lewis H., Natchez, Miss. Quick-detachable wheel-tire. No. 991,328; May 2; Sp. p. 1081; Gaz. vol. 166; p. 180.
Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil-support for dynamo-electric machinery. No. 1,007,457; Oct. 31; Sp. p. 6380; Gaz. vol. 171; p. 1158.
Lammel, John D., Neenah, Wis. Cutter-head. No. 1,000,526; Aug. 15; Sp. p. 2802; Gaz. vol. 169; p. 517.
Lammersen, William, Los Angeles, Cal. Game apparatus. No. 998,103; July 18; Sp. p. 3272; Gaz. vol. 168; p. 590.
Lamont, Alexander D., assignor to Davol Rubber Company, Providence, R. I. Edge-rolling device for hot-water bottles. No. 993,308; May 23; Sp. p. 5287; Gaz. vol. 166; p. 948.
Lamont, James D., assignor of one-half to E. S. Bryant, Detroit, Mich. Electric cooker. No. 993,178; May 23; Sp. p. 5033; Gaz. vol. 166; p. 909.
Lamont, John A., Granite City, Ill., assignor to American Steel Foundries, New York, N. Y. Side frame and tie-bar for car-trucks. No. 1,009,979; Nov. 28; Sp. p. 5154; Gaz. vol. 172; p. 928.
Lamont, Robert. (See Bush, Charles, assignor.)
Lamont, Robert P., *et al.* (See Murray, Charles F., assignor.)
Lamont, Robert P., Chicago, Ill. Means for eliminating risers on castings. No. 1,007,458; Oct. 31; Sp. p. 6383; Gaz. vol. 171; p. 1159.
Lamont, Robert P., Chicago, Ill. Mold. No. 1,010,392; Nov. 28; Sp. p. 6011; Gaz. vol. 172; p. 1066.
Lamora, Ephraim M., Moffitsville, N. Y. Sleigh-brake. No. 983,376; Feb. 7; Sp. p. 258; Gaz. vol. 163; p. 44.
Lamoreux, Frank H., Smithshire, Ill. Combined eraser and pen-extractor. No. 994,759; June 13; Sp. p. 1454; Gaz. vol. 167; p. 268.
Lampé, Eduard, Frankfort-on-the-Main, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Food for diabetics. No. 980,292; Jan. 3; Sp. p. 212; Gaz. vol. 162; p. 41.
Lampke, Samuel M., Detroit, Mich. Device for distributing ashes and sand. No. 991,790; May 9; Sp. p. 2048; Gaz. vol. 166; p. 369.
Lamplough, Frederick, London, England. Pump. No. 1,009,420; Nov. 21; Sp. p. 4035; Gaz. vol. 172, p. 696.
Lamplough, Frederick, London, England. Means for converting reciprocating into rotary motion. No. 1,012,208; Dec. 19; Sp. p. 4086; Gaz. vol. 173; p. 701.
Lampman, Henry F., Minneapolis, assignor of one-half to J. W. Dickey, St. Paul, Minn. Valve. No. 1,011,821; Dec. 12; Sp. p. 3189; Gaz. vol. 173; p. 533.
Lamson Consolidated Store Service Company. (See Bartlett, Louis G., assignor.)
Lamson Consolidated Store Service Company. (See Fordyce and Jennings, assignors.)
Lamson Consolidated Store Service Company. (See Jennings, Chester S., assignor.)
Lamson Consolidated Store Service Company. (See Litchfield, Isaac W., assignor.)
Lamson Consolidated Store Service Company. (See Maclaren, James G., assignor.)
Lamson Consolidated Store Service Company. (See Waterhouse, Harold D., assignor.)
Lamson, John D. R., Toledo, Ohio. Vehicle-tractor. No. 1,002,997; Sept. 12; Sp. p. 1813; Gaz. vol. 170; p. 314.
Lamy, Telesphore, *et al.* (See St. Peter, William, assignor.)
Lancaster Sanitary Appliance Company. (See Diffenderfer, Harry K., assignor.)
Lancaster, Seward O., London, Ontario, Canada. Automatic adjustable holder for telephone-receivers. No. 984,679; Feb. 21; Sp. p. 3097; Gaz. vol. 163; p. 549.
Lance, George W., Jr., *et al.* (See Harris, Bert H., assignor.)
Lanchester, Frederick W., Edgbaston, England. Valve-gear of internal-combustion engines. No. 990,752; Apr. 25; Sp. p. 5359; Gaz. vol. 165; p. 925.
Landau, Adolph S., Boston, Mass. Treating furs. No. 984,940; Feb. 21; Sp. p. 3629; Gaz. vol. 163; p. 640.
Landen, Alexander. (See Anderson, Gust, assignor.)
Landenberger, Emma M. D., St. Louis, Mo. Conformator. No. 1,012,372; Dec. 19; Sp. p. 4422; Gaz. vol. 173; p. 757.
Landenberger, Emma M. D., St. Louis, Mo. Dress-form. No. 1,012,373; Dec. 19; Sp. p. 4425; Gaz. vol. 173; p. 757.
Landenberger, Emma M. D., St. Louis, Mo. Making garment-forms. No. 1,012,565; Dec. 19; Sp. p. 4795; Gaz. vol. 173; p. 824.
Landenberger, Ralph, Chicago, Ill. Calculating device. No. 997,680; July 11; Sp. p. 2257; Gaz. vol. 168; p. 399.
Lander, Freeman L., Bangor, Me. Float-gage. No. 981,434; Jan. 10; Sp. p. 2889; Gaz. vol. 162; p. 466.
Landers, Charles W. (See Sachs and Landers.)
Landers, Frary and Clark. (See Downs, George A., assignor.)
Landers, Frary and Clark. (See Heckman, John J., assignor.)
Landers, Frary and Clark. (See Hotchkiss and Moberg, assignors.)
Landers, Frary & Clark. (See Smith, Charles F., assignor.)
Landers, Frary and Clark. (See Warner, Alonzo A., assignor.)
Landes, Abe R., New York, assignor of one-half to J. Capobianco, Brooklyn, N. Y. Bale-hook. No. 1,001,962; Aug. 29; Sp. p. 5931; Gaz. vol. 169; p. 1074.
Landes, John D. (See Gray, D Webb, assignor.)
Landgrebe, Karl L., Bethlehem, Pa. Stove for blast-furnaces and the like. No. 992,884; May 23; Sp. p. 4406; Gaz. vol. 166; p. 808.
Landin, Andrew, St. Paul, Minn. Potato-digger. No. 1,004,041; Sept. 26; Sp. p. 4091; Gaz. vol. 170; p. 736.
Landine, Peter N., assignor of one-half to W. B. McCarthy, Milford, Conn. Fender for street-railway cars. No. 984,277; Feb. 14; Sp. p 2238; Gaz. vol. 163; p. 378.
Landine, Peter N., assignor to The Rostand Mfg. Company, Milford, Conn. Friction-hinge for wind-shields. No. 1,007,708; Nov. 7; Sp. p. 123; Gaz. vol. 172; p. 20.
Landis, Abb L., Nashville, Tenn., assignor to Burroughs Adding Machine Company, Detroit, Mich. Computing attachment for adding-machines. No. 987,890; Mar. 28; Sp. p. 4522; Gaz. vol. 164; p. 817.
Landis, Frank F., Waynesboro, Pa. Mold. No. 985,353; Feb. 28; Sp. p. 4540; Gaz. vol. 163; p. 815.
Landis, Frank F., Waynesboro, Pa. Feed-hopper for threshing-machines. No. 995,689; June 20; Sp. p. 3478; Gaz. vol. 167; p. 613.
Landis, Frank F., Waynesboro, Pa. Machine for the manufacture of concrete products. No. 995,690; June 20; Sp. p. 3479; Gaz. vol. 167; p. 613.
Landis, Jesse A., Dayton, Ohio. Wheel. No. 987,891; Mar. 28; Sp. p. 4530; Gaz. vol. 164; p. 817.
Landis Machine Company. (See Blair, William R., assignor.)
Landis Machine Company. (See Duffy, Wilbye, assignor.)
Landis, Omar K., Lancaster, Pa. Damper controlling and operating mechanism. No. 1,006,487; Oct. 24; Sp. p. 4255; Gaz. vol. 171; p. 764.
Landon, George R. (See Neuner and Landon.)
Landreth, Ben P., Asheville, N. C. Clamp. No. 985,682; Feb. 28; Sp. p. 5257; Gaz. vol. 163; p. 928.
Landreth, Clarence P., *et al.* (See Williams, Dick B., assignor.)
Landrum, John M., East Lake, assignor of one-half to J. T. Harwell, Birmingham, Ala. Rock-crusher. No. 1,004,663; Oct. 3; Sp. p. 238; Gaz. vol. 171; p. 42.

Alphabetical list of patentees—Continued.

Landry, Valère, assignor to Kyng-B Shoe Company, Rochester, N. Y. Manufacturing shoes. No. 998,700; July 25; Sp. p. 4573; Gaz. vol. 168; p. 833.
Landvatter, Otto H., assignor to Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold und Sebold & Neff, Durlach, Germany. Conveying device for match-machines. No. 1,004,178; Sept. 26; Sp. p. 4431; Gaz. vol. 170; p. 784.
Lane, Alfred M., assignor to Monarch Metal Weather Strip Company, St. Louis, Mo. Metal weather-strip. No. 987,244; Mar. 21; Sp. p. 3138; Gaz. vol. 164; p. 568.
Lane, Alfred M., assignor to Monarch Metal Weather Strip Company, St. Louis, Mo. Machine for forming metal weather-strips. No. 1,005,848; Oct. 17; Sp. p. 2798; Gaz. vol. 171; p. 509.
Lane, Annie M. (See Lane, George A., assignor.)
Lane, Arthur P., Denver, Colo. Valve-stem packing. No. 991,329; May 2; Sp. p. 1082; Gaz. vol. 166; p. 181.
Lane Bros. Co. (See Lane, George, assignor.)
Lane & de Groot Company, The. (See Paschke, Herbert, assignor.)
Lane, Frank P., Newark, Ohio. Railway-switch and switch-operating device. No. 982,833; Jan. 31; Sp. p. 5828; Gaz. vol. 162; p. 1026.
Lane, Franklin L., assignor to The Berlin Machine Works, Beloit, Wis. Planer-knife-holding device. No. 1,010,645; Dec. 5; Sp. p. 547; Gaz. vol. 173; p. 86.
Lane, Frederick E., Keene, N. H., and A. C. Creter, assignors to The Massillon Foundry and Machine Company, Massillon, Ohio. Steam-hammer. No 999,662; Aug. 1; Sp. p. 915; Gaz. vol. 169; p. 160.
Lane, Frederick W., Chico, Cal. Attachment for door-clamps. No 992,008; May 9; Sp. p. 2492; Gaz. vol. 166; p. 443.
Lane, George, Haverford, assignor to Wood & Guest, Philadelphia, Pa. Support for lawn-tennis nets or the like. No. 1,000,682; Aug. 15; Sp. p. 3167; Gaz. vol. 169; p. 574.
Lane, George, assignor to Lane Bros. Co., Poughkeepsie, N. Y. Carrier-track. No. 1,013,025; Dec. 26; Sp. p. 5864; Gaz. vol. 173; p. 1025.
Lane, George A., Florence, assignor to A. M. Lane, Burbank, Cal. Pipe-tongs. No. 994,169; June 6; Sp. p. 134; Gaz. vol. 167; p. 24.
Lane, George S., Portland, Oreg. Compressed-air water-elevator. No 1,007,955; Nov. 7; Sp. p. 693; Gaz. vol. 172; p. 107.
Lane, Harvey, assignor to The H. Lane Manufacturing Company, Toledo, Ohio. Liquid-measuring apparatus. No. 987,892; Mar. 28; Sp. p. 4531; Gaz. vol. 164; p. 817.
Lane, Herbert B., Laurinburg, Scotland, assignor of one-third to F. C. Graddick, Albemarle, N. C Automatic belt-shifter. No. 1,001,053; Aug. 22; Sp. p. 4013; Gaz. vol. 169; p. 738.
Lane, James W., Atlantic City, N. J. Waterproof cellar. No. 997,835; July 11; Sp. p. 2639; Gaz. vol. 168; p. 454.
Lane, Lawrence A., Princeton, Cal. Hook. No. 1,002,852; Sept. 12; Sp. p. 1488; Gaz. vol. 170; p. 264.
Lane, Maurice L., assignor of one-half to C. S. Gordon, Detroit, Mich. Ink-drier and static-charge reducer for presses. No. 991,860; May 9; Sp. p. 2203; Gaz. vol. 166; p. 393.
Lane, Nathaniel J., New York, N. Y. Package-filling machine. No. 1,006,236; Oct. 17; Sp. p. 3682; Gaz. vol. 171; p. 648.
Lane, Robert E., *et al.* (See De Rosier, Horace, assignor.)
Lane, Victor E., Berwick, Pa. Pneumatic hammer. No. 1,007,295; Oct. 31; Sp. p. 6040; Gaz. vol. 171; p. 1102.
Lane, Willey B., Philadelphia, Pa., assignor of one-half to J. C. McCarty & Co. Screw-driver. No. 981,202; Jan. 10; Sp. p. 2336; Gaz. vol. 162; p. 385.
Lane, Willey B., Philadelphia, Pa., assignor of one-half to J. C. McCarty & Co. Ratchet mechanism for screw-drivers, wrenches, &c. (Reissue.) No. 13,205; Feb. 14; Sp. p. 2750; Gaz. vol. 163; p. 460.
Laney, John P., Pittsburg, Pa. Cuspidor. No. 997,140; July 4; Sp. p. 1144; Gaz. vol. 168; p. 185.
Laney, William S., Lithopolis, Ohio. Concrete fence. No. 1,012,868; Dec. 26; Sp. p. 5499; Gaz. vol. 173; p. 972.
Lang, Albert, Karlsruhe, assignor to H. F. von Seldeneck, Frankfort-on-the-Main, Germany. Protecting iron from rust. No. 983,377; Feb. 7; Sp. p. 259; Gaz. vol. 163; p. 44.
Lang, Arno. (See Polster and Lang.)
Lang, Carl J., Olean, N. Y. Reel for moving-picture films. No. 1,009,673; Nov. 21; Sp. p. 4517; Gaz. vol. 172; p. 778.
Lang, Daniel M., Corry, Pa. Waterproof switch. No. 992,009; May 9; Sp. p. 2493; Gaz. vol. 166; p. 444.
Lang, Edward, Kochville, Mich. Beet-harvester. No. 984,572; Feb. 21; Sp. p. 2871; Gaz. vol. 163; p. 511.
Lang, Edward M., Jr. (See Cobb, Elmer M., assignor.)
Lang, Edward P. (See Strunk, Herschel B., assignor.)
Lang, Frank H. (See Nelson and Lang.)
Lang, Frank S., Seattle, Wash. Stove. No. 990,884; May 2; Sp. p. 122; Gaz. vol. 166; p. 23.
Lang, Frederick W., Minneapolis, Minn. Joint-protector for sewer-pipes. No. 985,182; Feb. 28; Sp. p. 4164; Gaz. vol. 163; p. 758.
Lang, Henry L., and G. Kennard, Staunton, Va. Holder for watches. No. 994,262; June 6; Sp. p. 331; Gaz. vol. 167; p. 57.
Lang, James W., Los Angeles, Cal. Automatic trolley-pole. No. 984,767; Feb. 21; Sp. p. 3302; Gaz. vol. 163; p. 582.
Lang, John W., Portersville, Cal. Surgical appliance. No. 997,067; July 4; Sp. p. 1006; Gaz. vol. 168; p. 161.
Lang, John W., Portersville, Cal. Apparatus for collecting smoke, gases, and the like. No. 999,114; July 25; Sp. p. 5492; Gaz. vol. 168; p. 978.
Lang, Niels, Vancouver, British Columbia, Canada. Automatic train-controlling mechanism. No. 982,611; Jan. 24; Sp. p. 5352; Gaz. vol. 162; p. 923.
Lang, William, German township, Allen county, Ohio. Tubing-spear. No. 985,263; Feb. 28; Sp. p. 4343; Gaz. vol. 163; p. 785.
Langan, David H. (See Francis, Mary J., assignor.)
Langan, David H., Gaines, Pa. Lock-nut. No. 1,010,503; Dec. 5; Sp. p. 241; Gaz. vol. 173; p. 38.
Langdon, John F., Wichita, Kans. Band-cutter and feeder. No. 985,183; Feb. 28; Sp. p. 4165; Gaz. vol. 163; p. 758.
Lange, Andreas J., Racine, Wis. Lifting-jack. No. 1,010,774; Dec. 5; Sp. p. 846; Gaz. vol. 173; p. 132.
Lange, August, Philadelphia, Pa. Show-case for cigars. No. 985,910; Mar. 7; Sp. p. 325; Gaz. vol. 164; p. 53.
Lange, August, Philadelphia, Pa. Show-case. No. 1,009,755; Nov. 28; Sp. p. 4707; Gaz. vol. 172; p. 853.
Lange, George, assignor to The Keuffel & Esser Company, Hoboken, N. J. Calculating device. No. 1,012,660; Dec. 26; Sp. p. 5012; Gaz. vol. 173; p. 900.
Lange, Henry J., Lorain, Ohio. Heater. No. 1,004,042; Sept. 26; Sp. p. 4092; Gaz. vol. 170; p. 736.
Lange, Paul, Brieg, near Breslau, Germany. Rock-drilling machine. No. 998,910; July 25; Sp. p. 5065; Gaz. vol. 168; p. 909.
Lange, Robert, Charlottenburg, Germany. Safety-hook. No. 1,010,270; Nov. 28; Sp. p. 5736; Gaz. vol. 172; p. 1026.
Lange, Rudolph H., and W. C. Knebelkamp, Belleville, Ill. Door-stop. No. 1,005,849; Oct. 17; Sp. p. 2806; Gaz. vol. 171; p. 510.
Lange, Werner. (See Herzberg and Lange.)
Lange, Wilhelm E., assignor of four-tenths to G. A. Berkes and two-tenths to E. H. Strauss, Chicago, Ill. Necktie-make-up device. No. 1,010,155; Nov. 28; Sp. p. 5514; Gaz. vol. 172; p. 988.
Langehennig, George, Guthrie, Okla. Threshing-machine concave. No. 984,094; Feb. 14; Sp. p. 1837; Gaz. vol. 163; p. 316.
Langell, Alexander H., *et al.* (See Clarke, John S., assignor.)
Langenfeld, John, Earling, Iowa. Draft-equalizer. No. 1,010,775; Dec. 5; Sp. p. 847; Gaz. vol. 173; p. 132.
Langenfeld, John, Sioux City, Iowa. Spring-trip for cultivator-shovels. No. 1,010,776; Dec. 5; Sp. p. 848; Gaz. vol. 173; p. 132.
Langer, Gotthold L., San Francisco, Cal., assignor to United States Consolidated Seeded Raisin Company. Fruit-seeding machine. No. 991,791; May 9; Sp. p. 2049; Gaz. vol. 166; p. 369.
Langerman, Albert L. (See Hanscom and Langerman.)
Langford, Charles A., Rio, Wis. Resilient wheel. No. 997,302; July 11; Sp. p. 1490; Gaz. vol. 168; p. 272.
Langford, Ida S. (See Clark, David A., assignor.)
Langguth, Charles A., Boston, Mass. Bottle-carrier. No. 1,005,235; Oct. 10; Sp. p. 1432; Gaz. vol. 171; p. 262.
Langhaar, Louis, Bristol, Conn. Ball-bearing. No. 981,577; Jan. 10; Sp. p. 3151; Gaz. vol. 162; p. 514.
Langham, William W., assignor of one-half to T. F. Gilley, Caldwell, Tex. Cooler. No. 988,882; Apr. 4; Sp. p. 1245; Gaz. vol. 165; p. 199.
Langhans, Rudolf, Berlin, Germany. Incandescent mantle. No. 990,753; Apr. 25; Sp. p. 5362; Gaz. vol. 165; p. 925.
Langhrey, Wheeler W. (See Preston, Leonard Z., assignor.)
Langille, Allister S., Chicago, Ill. Holder. No. 981,773; Jan. 17; Sp. p. 3555; Gaz. vol. 162; p. 603.
Langille, Elijah, Stellarton, Nova Scotia, Canada. Truck. No. 996,723; July 4; Sp. p. 251; Gaz. vol. 168; p. 44.
Langlands, Daniel G., Melrose, assignor to Worcester Pressed Steel Pulley Company, Worcester, Mass. Pulley. No. 1,007,118; Oct. 31; Sp. p. 5653; Gaz. vol. 171; p. 1038.
Langlands, Daniel G., Melrose, assignor to Worcester Pressed Steel Pulley Company, Worcester, Mass. Pulley. No. 1,00°,535; Nov. 21; Sp. p. 4266; Gaz. vol. 172; p. 735.
Langley, Samuel D., Madisonville, Ky. Desk-rack. No. 998,250; July 18; Sp. p. 3580; Gaz. vol. 168; p. 642.
Langlois, Henry C., Thunder Butte, S. D. Horse-detacher. No. 982,144; Jan. 17; Sp. p. 4372; Gaz. vol. 162; p. 731.
Langlois, Henry C., Thunder Butte, S. D. Auxiliary handle for forks. No. 982,145; Jan. 17; Sp. p. 4373; Gaz. vol. 162; p. 731.
Langlois, Jean, Moline, Ill. Gang-plow. No. 990,885; May 2; Sp. p. 124; Gaz. vol. 166; p. 23.
Langlotz, Charles. (See Shinksy and Langlotz.)

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Langos, Otto A., Chicago, Ill. Automatic air-torpedo. No. 1,004,043; Sept. 26; Sp. p. 4097; Gaz. vol. 170; p. 737.
Langrill, William, Bay City, Mich. Voting-machine. No. 989,017; Apr. 11; Sp. p. 1520; Gaz. vol. 165; p. 267.
Langstaff, George A. (See Langstaff, Roy and G. A.)
Langstaff, Roy, Los Angeles, and G. A. Langstaff, Whittier, Cal. Advertising device. No. 987,245; Mar. 21; Sp. p. 3140; Gaz. vol. 164; p. 568.
Langston, Frederick B., New York, N. Y. Boat construction. No. 1,003,364; Sept. 12; Sp. p. 2574; Gaz. vol. 170; p. 443.
Langston, Samuel M., Camden, N. J. Tube-making machine. No. 981,774; Jan. 17; Sp. p. 3557; Gaz. vol. 162; p. 604.
Langston, Samuel M., Camden, N. J. Paper slitter and rewinder. No. 1,009,756; Nov. 28; Sp. p. 4708; Gaz. vol. 172; p. 854.
Langston, Samuel M., Camden, N. J. Slitter and rewinder. No. 1,009,757; Nov. 28; Sp. p. 4711; Gaz. vol. 172; p. 854.
Langton, Charles S., Olney, Ill. Spring-motor. No. 1,010,393; Nov. 28; Sp. p. 6012; Gaz. vol. 172; p. 1066.
Langton, George H., Shreveport, La. Rail-plate and wheel-guard. No. 994,592; June 6; Sp. p. 1016; Gaz. vol. 167; p. 169.
Langworthy, Arthur M., New York, N. Y. Amusement device. No. 1,002,162; Aug. 29; Sp. p. 6293; Gaz. vol. 169; p. 1138.
Lanier, Lewis H., Newport, Ky., assignor of one-half to L. L. Stricker, Cincinnati, Ohio. Receptacle for holding and delivering batter for ice-cream-cone machines. No. 988,196; Mar. 28; Sp p. 5182; Gaz. vol. 164; p. 919.
Lankford, Jerome J., assignor to C. T. Seipp, Globe, Ariz. Bolster for concrete structure. No. 992,430; May 16; Sp. p. 3450; Gaz. vol. 166; p. 620.
Lankhuff, Charles, Cincinnati, Ohio. Mail-stamping mechanism. No. 981,285; Jan. 10; Sp. p. 2546; Gaz. vol. 162; p. 415.
Lankler, Margaret J., New York, N. Y., assignor of one-third to H. M. Walsh, Sandy Hook, Conn. Game apparatus. No. 1,009,421; Nov. 21; Sp. p. 4037; Gaz. vol. 172; p. 696.
Lanning, Charles D., Boston, Mass. Shipper-releasing mechanism for electrically-controlled warp stop mechanism. No. 1,000,418; Aug. 15; Sp. p. 2574; Gaz. vol. 169; p. 479.
Lanning, Charles D., Boston, Mass. System for the transmission of electrical energy. No. 1,002,711; Sept. 5; Sp. p. 1166; Gaz. vol. 170; p. 176.
Lanning, Charles D., Boston, Mass. Electromagnetic device for alternating currents. No. 1,002,712; Sept. 5; Sp. p. 1181; Gaz. vol. 170; p. 177.
Lanning, Stephen A., Muskogee, Okla. Window-operating device. No. 981,286; Jan. 10; Sp. p. 2548; Gaz. vol. 162; p. 415.
Lanning, William H., Jr. Toledo, Ohio. Clutch. No. 1,002,853; Sept. 12; Sp. p. 1489; Gaz. vol. 170; p. 264.
Lannon, Edward T., San Diego, Cal. Hook and eye. No. 999,805; Aug. 8; Sp. p. 1213; Gaz. vol. 169; p. 238.
Lannoye, Auguste, Genval, Belgium. Apparatus for treating old paper and the like. No. 989,370; Apr. 11; Sp. p. 2288; Gaz. vol. 165; p 387.
Lanphier, Robert C., assignor to Sangamo Electric Company, Springfield, Ill. Graphic recording instrument. No. 992,010; May 9; Sp. p. 2494; Gaz. vol. 166; p. 444.
Lanphier, Robert C., assignor to Sangamo Electric Company, Springfield, Ill. Recording mechanism for meters. No. 998,016; July 18; Sp. p. 3066; Gaz. vol. 168; p. 559.
Lanphier, Robert C., assignor to Sangamo Electric Company, Springfield, Ill. Induction-meter. No. 1,010,271; Nov. 28; Sp. p. 5737; Gaz. vol. 172; p. 1026.
Lanphier, Robert C., assignor to Sangamo Electric Company, Springfield, Ill. Induction-meter. No. 1,010,272; Nov. 28; Sp. p. 5740; Gaz. vol. 172; p. 1027.
Lansden, Hugh C., Cookeville, Tenn. Fire-escape. No. 995,159; June 13; Sp. p. 2325; Gaz. vol. 167; p. 402.
Lansing Wheelbarrow Company. (See Verplanck, Holly M., assignor.)
Lanston Monotype Machine Company. (See Bancroft and Indahl, assignors.)
Lanston Monotype Machine Company. (See Elliott, Richard C., assignor.)
Lanston Monotype Machine Company. (See Indahl and Chalfant, assignors.)
Lanston Monotype Machine Company. (See Indahl and Knight, assignors.)
Lanston Monotype Machine Company. (See Knight, Amos L., assignor.)
Lanston Monotype Machine Company. (See Pierpont, Frank H., assignor.)
Lanter, Jesse L., Richmond, Ind. Pipe-vise. No. 1,008,277; Nov. 7; Sp. p. 1361; Gaz. vol. 172; p. 222.
Lanz, John, assignor to The Rogers Telephone & Electric Company, Danbury, Conn. Electric horn. No. 981,864; Jan. 17; Sp. p. 3758; Gaz. vol. 162; p. 635.
Lapeyrouze, David L., Thibodaux, La. Hay-rake. No. 993,531; May 30; Sp. p. 5797; Gaz. vol. 166; p. 1059.
Lapham, Marshall. (See McGill, John I., assignor.)
Laplant, Leander A., Plattsburg, N. Y. Automatic circuit-closer. No. 994,170; June 6; Sp. p. 139; Gaz. vol. 167; p. 25.
Lapointe, Albert A., Hudson, Mass. Automatic friction-wheel shifter. No. 1,006,957; Oct. 24; Sp. p. 5280; Gaz. vol. 171; p. 929.
Lapointe, Albert D., assignor to Bastian & Lapointe, Sioux City, Iowa. Etching by electrolysis on relief or intaglio. No. 984,011; Feb. 14; Sp. p. 1662; Gaz. vol. 163; p. 286.
Lapointe, Joseph A., Montreal, Quebec, Canada. Ash-sifter No. 986,727; Mar. 14; Sp. p. 2057; Gaz. vol. 164; p. 360.
Lapworth, William J., Pittsburg, Kans. Pump. No. 990,886; May 2; Sp. p. 125; Gaz. vol. 166; p. 24.
Larch, William H., Tab, Ind. Grain-bin. No. 1,005,983; Oct. 17; Sp. p. 3106; Gaz. vol. 171; p. 558.
Lard, Allan E., St. Joseph, Mo. Single-trigger firearm. No. 1,011,972; Dec. 19; Sp. p. 3542; Gaz. vol. 173; p. 620.
Lardinois, George, Brussels, Belgium. Apparatus for grinding and smoothing glass. No. 995,019; June 13; Sp. p. 2032; Gaz. vol. 167; p. 355.
Lardy, Emil, Münster, Westphalia, Germany. Lining shafts with concrete. No. 1,003,140; Sept. 12; Sp. p. 2102; Gaz. vol. 170; p. 362.
Lardy, Emil, Münster, Westphalia, Germany. Sinking shafts in loose and watery strata. No. 1,003,141; Sept. 12; Sp. p 2103; Gaz. vol. 170; p. 362.
Large, Walter W., and R. H. Tapper, Calgary, Alberta, Canada. Fence-post. No. 1,013,026; Dec. 26; Sp. p. 5866; Gaz. vol. 173; p. 1026.
Larick, Harry C. (See Stough and Larick.)
Larimore, John W., Springfield, Ill. Oil-can attachment. No. 994,938; June 13; Sp. p. 1866; Gaz. vol. 167; p. 328.
Larivière, Louis A., Paris, France. Electropneumatic brake. No. 992,214; May 16; Sp. p. 2929; Gaz. vol. 166; p. 545.
Larkin, Philip F., New Kensington, Pa. Register. No. 1,000,181; Aug. 8; Sp. p. 2055; Gaz. vol. 169; p. 366.
Larkins, Charles C., Texarkana, Ark. Lamp-post. No. 998,701; July 25; Sp. p. 4574; Gaz. vol. 168; p. 833.
Larkins, Daniel P., Sandusky, Ohio. Radiator-truck. No. 984,941; Feb. 21; Sp. p. 3631; Gaz. vol. 163; p. 640.
Larmuth, William O. (See Davidson and Larmuth.)
Laronde, Michel P. A., assignor to Société Anonyme des Verreries et Manufactures des Glaces d'Aniche, Aniche, France. Feeding device for glass-grinding machines. No. 998,353; July 18; Sp. p. 3836; Gaz. vol. 168; p. 681.
Larose, Albert, St. Esprit, Quebec, Canada. Transplanting-machine. No. 997,923; July 11; Sp. p. 2835; Gaz. vol. 168; p. 485.
Laroy, Thomas E., Middlesboro, Ky., assignor to Southern Manufacturing Company. Fire-escape. No. 994,760; June 13; Sp. p. 1455; Gaz. vol. 167; p. 268.
Larr, Austin C., Little Rock, Ark. Barge. No. 1,005,236; Oct. 10; Sp p. 1433; Gaz. vol. 171; p. 262.
Larrabee, Martha E., Anita, Iowa. Skirt and hose supporter. No. 996,352; June 27; Sp. p. 4969; Gaz. vol. 167; p. 875.
Larrabee, William H., assignor to Union Water Meter Company, Worcester, Mass. Water-meter intermediate gearing. No. 998,853; July 25; Sp. p. 4932; Gaz. vol. 168; p. 887.
Larrabee, William H., assignor to Union Water Meter Company, Worcester, Mass. Rubber gear for water-meters. No. 1,007,296; Oct. 31; Sp. p. 6042; Gaz. vol. 171; p. 1102.
Larrick, George B., Lexington, Va. Fruit stone and core extractor. No. 989,162; Apr. 11; Sp. p. 1833; Gaz. vol. 165; p. 318.
Larrison, Lewis K., Wharton, N. J. Dispensing apparatus. No. 1,005,650; Oct. 10; Sp. p. 2389; Gaz. vol. 171; p. 410.
Larrivée, Charles. (See Arsenault and Larrivée.)
Larry, Edward P. (See Buras and Larry.)
Larsen-Baker Ice Machine Co. (See Allan, James, assignor.)
Larsen, Berton I., Ottawa, Ill. Sand-drier. No. 1,009,422; Nov. 21; Sp. p. 4038; Gaz. vol. 172; p. 697.
Larsen, Gus, Oakland, Cal. Book-locking device. No. 989,909; Apr. 18; Sp. p. 3468; Gaz. vol. 165; p. 603.
Larsen, Ingvald, Schenectady, N. Y., assignor to General Electric Company. Snap-switch. No. 994,011; May 30; Sp. p. 6816; Gaz. vol. 166; p. 1223.
Larsen, Julius, Deer Lodge, Mont. Sod-cutter. No. 1,007,459; Oct. 31; Sp. p. 6385; Gaz. vol. 171; p. 1159.
Larsen, Louis. (See Joseph, Larsen, and Smith.)
Larsen, Ole, assignor to Smith & Winchester Manufacturing Company, South Windham, Conn. Attachment for paper-cutting machines. No. 995,972; June 20; Sp. p. 4087; Gaz. vol. 167; p. 711.
Larsen, Peter, J. M. Turney, and F. S. Oakes, Cattaraugus, N. Y., assignors to Oakes & Burger Co. Milk-can. No. 997,836; July 11; Sp. p. 2640; Gaz. vol. 168; p. 454.
Larson, Albert. (See Wilson and Larson.)
Larson, Alfred. (See Lindgren, Carl J., assignor.)
Larson, Axel F., assignor to Marquette Piano Company, Chicago, Ill. Expression-lever for automatic pianos. No. 996,775; July 4; Sp. p. 348; Gaz. vol. 168; p. 59.

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Larson, Benjamin O., Boston, Mass. Spring. No. 992,215; May 16; Sp. p. 2932; Gaz. vol. 166; p. 545.
Larson, Charles A., and J. W. Fordice, Gertrude, Wash. Stump-puller and land-clearing machine. No. 993,258; May 23; Sp. p. 5200; Gaz. vol. 166; p. 933.
Larson, David, Yonkers, N. Y. Alternating-current controller. No. 1,011,212; Dec. 12; Sp. p. 1823; Gaz. vol. 173; p. 317.
Larson, David, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current potential switch. No. 981,930; Jan. 17; Sp. p. 3950; Gaz. vol. 162; p. 660.
Larson, David, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Safety slow-down and stop motion for electric elevators. No. 982,074; Jan. 17; Sp. p. 4249; Gaz. vol. 162; p. 708.
Larson, David, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current electromagnetic switch. No. 1,005,237; Oct. 10; Sp. p. 1434; Gaz. vol. 171; p. 262.
Larson, Edward A., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Animal-shears. No. 989,163; Apr. 11; Sp. p. 1834; Gaz. vol. 165; p. 318.
Larson, Emil M., Canby, Minn. Spring-wheel. No. 1,012,374; Dec. 19; Sp. p. 4425; Gaz. vol. 173; p. 758.
Larson, Francis D., Salt Lake City, Utah. Vacuum cleaning apparatus. No. 993,694; May 30; Sp. p. 6175; Gaz. vol. 166; p. 1117.
Larson, Jonas A., Chicago, Ill. Duck or flat-iron holder. No. 997,565; July 11; Sp. p. 2003; Gaz. vol. 168; p. 358.
Larson, Louis N., Highland township, Winnesheik county, Iowa. Animal-trap. No. 983,910; Feb. 14; Sp. p. 1434; Gaz. vol. 163; p. 253.
Larson, Sanford A., Denver, Colo. Tool for cutting thread. No. 1,003,922; Sept. 19; Sp. p. 3740; Gaz. vol. 170; p. 667.
Larson, William L. (See Wieck and Larson.)
Larson, Winfred R., Kewanee, Ill. Automatic stove-damper. No. 992,011; May 9; Sp. p. 2498; Gaz. vol. 166; p. 444.
Larsson, Gustaf O., assignor to Aktiebolaget L. M. Ericsson & Co., Stockholm, Sweden. Device for driving electric secondary clocks. No. 1,006,569; Oct. 24; Sp. p. 4459; Gaz. vol. 171; p. 796.
Larsson, Thure, assignor to himself, F. A. Jones, Worcester, Mass., and W. E. D. Stokes, New York, N. Y. Automatic shut-off valve for elevators. No. 1,009,074; Nov. 21; Sp. p. 3226; Gaz. vol. 172; p. 572.
Larzelere, Charles B., Seneca Falls, N. Y., assignor to General Electric Company. Electromagnetically-operated switch. No. 982,146; Jan. 17; Sp. p. 4374; Gaz. vol. 162; p. 731.
Larzelere, Roy E., Buffalo, N. Y. Globe and globe-holder. No. 1,008,344; Nov. 14; Sp. p. 1553; Gaz. vol. 172; p. 284.
Lavance, August, Dayton, Ohio. Pressing-machine. No. 998,251; July 18; Sp. p. 3582; Gaz. vol. 168; p. 642.
Lasch, Charles F. W., Louisville, Ky. Hose-coupling. No. 992,680; May 16; Sp. p. 3959; Gaz. vol. 166; p. 706.
Lasersohn, Isaac, St. Louis, Mo. Sash-balancing mechanism. No. 981,093; Jan. 10; Sp. p. 2093; Gaz. vol. 162; p. 346.
Lasersohn, Isaac, St. Louis, Mo. Sash-balancing mechanism. No. 1,007,212; Oct. 31; Sp. p. 5875; Gaz. vol. 171; p. 1073.
Lashar, Jay O. (See Brown, Harold S., assignor.)
Lasher, Frank, assignor to Bradford & Lasher, Bennington, Vt. Circular-rib-knitting machine. No. 992,012; May 9; Sp. p. 2500; Gaz. vol. 166; p. 445.
Lasher, Harry L. (See Lasher, William J. and H. L.)
Lasher Manufacturing Company. (See Grilk, Louis, assignor.)
Lasher, William J. and H. L., New York, N. Y. Non-refillable bottle. No. 982,506; Jan. 24; Sp. p. 5154; Gaz. vol. 162; p. 888.
Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Disazo dyestuff. No. 982,507; Jan. 24; Sp. p. 5155; Gaz. vol. 162; p. 888.
Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Disazo dyestuff. No. 982,508; Jan. 24; Sp. p. 5156; Gaz. vol. 162; p. 889.
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Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Making ortho-oxymonoazo dye. No. 987,999; Mar. 28; Sp. p. 4797; Gaz. vol. 164; p. 855.
Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Substantive disazo dyestuff. No. 988,000; Mar. 28; Sp. p. 4798; Gaz. vol. 164; p. 855.
Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Orange cotton dyes. No. 995,160; June 13; Sp. p. 2326; Gaz. vol. 167; p. 402.
Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Disazo dyes for wool. No. 995,161; June 13; Sp. p. 2328; Gaz. vol. 167; p. 403.
Laska, August L., Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim Elektron, Frankfort-on-the-Main, Germany. Manufacture of brown sulfurized vat dyestuffs. No. 999,045; July 25; Sp. p. 5379; Gaz. vol. 168; p. 956.
Laska, August L., Offenbach-on-the-Main, assignor to The Corporation of Chemische Fabrik Griesheim Elektron, Frankfort-on-the-Main, Germany. Disazo dyes and making same. No. 1,001,286; Aug. 22; Sp. p. 4480; Gaz. vol. 169; p. 814.
Laskay, Clarence W., New York, N. Y. Two-cycle marine engine. No. 1,001,866; Aug. 29; Sp. p. 5698; Gaz. vol. 169; p. 1043.
Lasker, William W., New York, N. Y. Type-writing machine. No. 990,276; Apr. 25; Sp. p. 4260; Gaz. vol. 165; p. 760.
Lasker, William W., New York, N. Y. Carriage-feeding mechanism for type-writing machines. No. 990,569; Apr. 25; Sp. p. 4947; Gaz. vol. 165; p. 864.
Laski, Antony, assignor of one-fourth to T. Dudjak, one-fourth to B. Miller, and one-fourth to A. Morris, New Britain, Conn. Hinge-butt. No. 1,003,618; Sept. 19; Sp. p. 3125; Gaz. vol. 170; p. 563.
Lassailly, Jules, Issy-les-Moulineaux, France. Making roads, pavements, &c. No. 987,726; Mar. 28; Sp. p. 4161; Gaz. vol. 164; p. 760.
Lassale, Justin, San Jose, Cal. Tire-removing apparatus. No. 985,683; Feb. 28; Sp. p. 5258; Gaz. vol. 163; p. 928.
Lassen, Axel J. L., Frederiksberg, near Copenhagen, Denmark. Machine for making and applying bottle caps or capsules. No. 1,011,630; Dec. 12; Sp. p. 2810; Gaz. vol. 173; p. 468.
Lassen, Theodore, Philadelphia, Pa. Alarm-clock. No. 984,573; Feb. 21; Sp. p. 2875; Gaz. vol. 163; p. 512.
Lässig, Friedrich W., Chemnitz, Germany. Comber device for combing-machines. No. 992,216; May 16; Sp. p. 2934; Gaz. vol. 166; p. 545.
Lassiter, Columbus K., Richmond, Va. Bolt threading and turning device. No. 1,006,958; Oct. 24; Sp. p. 5283; Gaz. vol. 171; p. 929.
Lassiter, Columbus K., Richmond, Va. Turning and threading bolt-blanks. No. 1,007,578; Oct. 31; Sp. p. 6658; Gaz. vol. 171; p. 1200.
Lasson, David, and A. Gorovitz, Philadelphia, Pa. Fan attachment for rocking-chairs. No. 998,783; July 25; Sp. p. 4774; Gaz. vol. 168; p. 863.
Lastreto, Charles B., Oakland, Cal. Demountable vehicle-rim. No. 988,722; Apr. 4; Sp. p. 936; Gaz. vol. 165; p. 148.
Latch, Edward B., Merion, Pa. Lifting attachment for airships. No. 988,115; Mar. 28; Sp. p. 5036; Gaz. vol. 164; p. 893.
Latendresse, Frank J., Hugo, Minn. Music-leaf turner. No. 993,179; May 23; Sp. p. 5034; Gaz. vol. 166; p. 909.
Latham, Albert, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Trimming-machine. No. 1,011,451; Dec. 12; Sp. p. 2355; Gaz. vol. 173; p. 402.
Latham, Anna M., Portland, Me. Fork for eating corn on the cob. No. 1,002,998; Sept. 12; Sp. p. 1818; Gaz. vol. 170; p. 314.
Latham, Chester A., Wichita, Kans. Antifriction-bearing. No. 999,806; Aug. 8; Sp. p. 1214; Gaz. vol. 169; p. 238.
Latham, Edgar, Atlanta, Ga. Bale-tie. No. 995,691; June 20; Sp. p. 3482; Gaz. vol. 167; p. 613.
Latham, Harry H., and W. Osterholm, assignors to Latham Machinery Company, Chicago, Ill. Wire-stitching machine. No. 980,647; Jan. 3; Sp. p. 1004; Gaz. vol. 162; p. 164.
Latham, Harry H., and W. Osterholm; said Osterholm assignor to Latham Machinery Company, Chicago, Ill. Cutting mechanism for wire-stitching machines. No. 980,874; Jan. 3; Sp. p. 1489; Gaz. vol. 162; p. 239.
Latham Machinery Company. (See Latham and Osterholm, assignors.)
Latham Machinery Company. (See Osterholm, William, assignor.)
Latham Machinery Company. (See Weber, Henry, assignor.)
Latham, Persie J., Long Branch, N. J. Sheet-piling. No. 1,001,963; Aug. 29; Sp. p. 5932; Gaz. vol. 169; p. 1075.
Latham, William M. (See Tenney, Perry L., assignor.)
Lathem, Diah W. (See Wiley and Lathem.)
Lathem, James O., *et al.* (See Griffin, William H., assignor.)
Lathem, Mariand W. (See Wiley and Lathem.)
Lathrop, Albert, J. M. Schweizer, and W. T. Johnston, Colton, Cal. Eccentric-cam brake. No. 989,374; Apr. 11; Sp. p. 2294; Gaz. vol. 165; p. 388.
Lathrop, Clinton A., assignor of one-half to G. Koons, Spokane, Wash. Folding car-step. No. 981,203; Jan. 10; Sp. p. 2337; Gaz. vol. 162; p. 385.

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Lathrop, Frederick H., Chicago, Ill. Tire. No. 1,012,375; Dec. 19; Sp. p. 4428; Gaz. vol. 173; p. 758.
Latimer, Alexander, London, England. Auxiliary rim for vehicle-wheels. No. 1,009,423; Nov. 21; Sp. p. 4040; Gaz. vol. 172; p. 697.
Latimer, James B., Chicago, Ill. Continuous-rail joint. No. 1,012,141; Dec. 19; Sp. p. 3930; Gaz. vol. 173; p. 680.
Latimer, John W., Chicago, Ill., assignor to International Harvester Company. Hay-rake. No. 1,009,156; Nov. 21; Sp. p. 3381; Gaz. vol. 172; p. 598.
Latour, Richard, Menin, Belgium. Cover for pneumatic tires. No. 1,006,570; Oct. 24; Sp. p. 4461; Gaz. vol. 171; p. 796.
Latshaw, Elmer D. and M. B., Philadelphia, Pa. Plaiting-machine. No. 989,986; Apr. 18; Sp. p. 3646; Gaz. vol. 165; p. 631.
Latshaw, Maud B. (See Latshaw, Elmer D. and M. B.)
Latta, Emmit G., *et al.* (See Kavle, Oscar C., assignor.)
Latta, Emmit G. (See Moyer and Kavle, assignors.)
Latta, John L., Hickory, N. C. Pump. No. 1,000,021; Aug. 8; Sp. p. 1662; Gaz. vol. 169; p. 312.
Latta, John S. (See Scatchard, Herbert F., assignor.)
Latta, Nisbet, Corliss, Wis. Gas-producer. No. 1,008,480; Nov. 14; Sp. p. 1942; Gaz. vol. 172; p. 332.
Latta, Nisbet, assignor to Allis-Chalmers Company, Milwaukee, Wis. Gas-washer. No. 1,002,810; Sept. 5; Sp. p. 1385; Gaz. vol. 170; p. 211.
Latta, William J. (See Kitsee, Isidor, assignor.)
Latten, Matthias. (See Blank and Latten.)
Lattimer, James L., Sabinsville, Pa. Attachment for the spouts of railway water-tanks. No. 983,149; Jan. 31; Sp. p. 6502; Gaz. vol. 162; p. 1131.
Lattimer, William J., Worth, Mo. Attachment for threshing-machines. No. 1,007,297; Oct. 31; Sp. p. 6044; Gaz. vol. 171; p. 1103.
Lattimore, James S., Redding, Cal. Removable handle for shovels. No. 1,012,661; Dec. 26; Sp. p. 5016; Gaz. vol. 173; p. 900.
Lau, Charles, Oaklawn, Ill. Horse-gag. No. 982,075; Jan. 17; Sp. p. 4253; Gaz. vol. 162; p. 708.
Lau, Charles, assignor to F. Vorda, Chicago, Ill. Horse-gag. No. 1,006,959; Oct. 24; Sp. p. 5290; Gaz. vol. 171; p. 930.
Lau, Frederick J., Newark, N. J. Lock for bag-frames and the like. No. 1,005,850; Oct. 17; Sp. p. 2808; Gaz. vol. 171; p. 511.
Lau, John B. (See Wessels and Lau.)
Lau, Martin, Walnut Grove, Minn. Snap-hook. No. 1,007,213; Oct. 31; Sp. p. 5876; Gaz. vol. 171; p. 1073.
Laube, Godfried and H. R., Santa Monica; said Godfried Laube assignor to G. N. Bartlett, Los Angeles, Cal. Paper-holder for sticky fly-paper. No. 989,911; Apr. 18; Sp. p. 3473; Gaz. vol. 165; p. 604.
Laube, Hattie R. (See Laube, Godfried and H. R.)
Laubenheimer, George E., Chicago, Ill. Hop-straining device. No. 984,434; Feb. 14; Sp. p. 2537; Gaz. vol. 163; p. 429.
Lauber, Otto, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fluid-brake. No. 988,789; Apr. 4; Sp. p. 1067; Gaz. vol. 165; p. 171.
Laubersheimer, Harry, New York, N. Y. Spring-wheel. No. 1,003,619; Sept. 19; Sp. p. 3127; Gaz. vol. 170; p. 564.
Laubeuf, Maxime A., Paris, France. Submarine vessel. No. 989,371; Apr. 11; Sp. p. 2290; Gaz. vol. 165; p. 387.
Laubscher, Alexander, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Folding and cording attachment for sewing-machines. No. 994,761; June 13; Sp. p. 1456; Gaz. vol. 167; p. 268.
Laubscher, Alexander, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Folder for sewing-machines. No. 1,005,238; Oct. 10; Sp. p. 1438; Gaz. vol. 171; p. 263.
Laudenschlager, William F. (See Aab, William, assignor.)
Lauderdale, Chapin F., Lyons, Ohio. Dental instrument. No. 990,277; Apr. 25; Sp. p. 4265; Gaz. vol. 165; p. 760.
Laudi, Carl, Dusseldorf-Grafenberg, Germany. Automatic grab. No. 1,008,345; Nov. 14; Sp. p. 1554; Gaz. vol. 172; p. 284.
Lauer, John W., Brookville, Pa. Walking-beam. No. 1,003,758; Sept. 19; Sp. p. 3428; Gaz. vol. 170; p. 611.
Lauer, Leon, Jr., Baltimore, Md. Cuff. No. 999,569; Aug. 1; Sp. p. 745; Gaz. vol. 169; p. 128.
Lauermann, Péter, Philadelphia, Pa. Hat-pin-point protector. No. 989,372; Apr. 11; Sp. p. 2291; Gaz. vol. 165; p. 388.
Laufer, Christopher F., Richmond, Cal. Steam-engine. No. 986,016; Mar. 7; Sp. p. 564; Gaz. vol. 164; p. 90.
Lauffer, Emil J. (See Huffman and Lauffer.)
Laughlin, Elmyr A., Chicago, Ill. Side bearing for railway-cars. No. 1,000,926; Aug. 15; Sp. p. 3674; Gaz. vol. 169; p. 659.
Laughlin, Henry D. (See Perry, Hubert M., assignor.)
Laughlin, Kern C., High Bridge, Ky. Vehicle-wheel. No 997,837; July 11; Sp. p. 2643; Gaz. vol. 168; p. 455.
Lauhon, Ira J., Noblesville, Ind. Corliss valve-gear. No. 991,330; May 2; Sp. p. 1083; Gaz. vol. 166; p. 181.
Laukhuff, Alfred, Duisburg, Germany. Paper-cutting mechanism. No. 988,578; Apr. 4; Sp. p. 622; Gaz. vol. 165; p. 100.
Laukhuff, Charles, Cincinnati, Ohio. Dough-treating mechanism. No. 998,017; July 18; Sp. p. 3069; Gaz. vol. 168; p. 559.
Laula, Heinrich, Vienna, Austria-Hungary. Thread button. No. 990,887; May 2; Sp. p. 127; Gaz. vol. 166; p. 24.
Laun, Christian F., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Curtain-pole ring. No. 1,001,287; Aug. 22; Sp. p. 4481; Gaz. vol. 169; p. 814.
Laun, Christian F., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Extension curtain-rod. No. 1,005,239; Oct. 10; Sp. p. 1440; Gaz. vol. 171; p. 263.
Laun, Christian F., assignor to Berbecker & Rowland Manufacturing Company, Waterville, Conn. Curtain-ring. No. 1,009,075; Nov. 21; Sp. p. 3228; Gaz. vol. 172; p. 572.
Laundry, Nels. (See Benson, Walter, assignor.)
Laune, Finley R., Loveland, Colo. Sage-brush-pulling machine. No. 995,356; June 13; Sp. p. 2733; Gaz. vol. 167; p. 467.
Lauren, William. (See Chapman, Loren C., assignor.)
Laurence, William E. (See Moon and Laurence.)
Laurenti, Cesare, assignor to Societa Fiat-San Giorgio, Spezia, Italy. Submarine or submersible boat. No. 985,911; Mar. 7; Sp. p. 326; Gaz. vol. 164; p. 53.
Laurenti, Cesare, assignor to Società Anomina Fiat-San Giorgio, Spezia, Italy. Floating dock. No. 998,970; July 25; Sp. p. 5218; Gaz. vol. 168; p. 929.
Laurian, George D., assignor to Gibson Mandolin-Guitar Company, Kalamazoo, Mich. Clamp for musical-instrument rests. No. 996,652; July 4; Sp. p. 118; Gaz. vol. 168; p. 21.
Lauritzen, Albert, Charlotte, Mich. Culvert. No. 1,003,759; Sept. 19; Sp. p. 3429; Gaz. vol. 170; p. 612.
Laursen, Laurits A., Holcombe, Wis. Hydraulic pump. No. 995,263; June 13; Sp. p. 2523; Gaz. vol. 167; p. 436.
Lause, Nicholas T. (See Collett and Lause.)
Lausterer, William J., Jamestown, assignor to Empire Voting Machine Company, Rochester and Jamestown, N. Y. Voting-machine lock-out for primary elections. No. 982,731; Jan. 24; Sp. p. 5590; Gaz. vol. 162; p. 962.
Lausterer, William J., Jamestown, assignor to Empire Voting Machine Company, Rochester, N. Y. Voting-machine. No. 995,357; June 13; Sp. p. 2739; Gaz. vol. 167; p. 468.
Laut, George, assignor of one-half to G. B. Miller, Eau Claire, Wis. Chalk-line holder. No. 1,004,443; Sept. 26; Sp. p. 4962; Gaz. vol. 170; p. 873.
Lautenschlager, William F., Cincinnati, Ohio. Hand cement-applier. No. 992,885; May 23; Sp. p. 4408; Gaz. vol. 166; p. 809.
Lauzon, Calvin A., Grand Rapids, assignor to W. Heap & Co., Muskegon, Mich. Fireless cooker. No. 1,012,869; Dec. 26; Sp. p. 5501; Gaz. vol. 173; p. 973.
Laval, Gustaf de, and E. E. F. Fagerström, Stockholm, Sweden. Turbine. No. 986,472; Mar. 14; Sp. p. 1518; Gaz. vol. 164; p. 273.
Laval, Henry, Evansville, Ind. Capsule-filler. No. 992,886; May 23; Sp. p. 4411; Gaz. vol. 166; p. 809.
Lavarack, Arthur W., Hampstead, and H. Greenwood, Acton Vale, London, England. Recreative apparatus of the switchback or like type. No. 1,009,076; Nov. 21; Sp. p. 3229; Gaz. vol. 172; p. 572.
Lavercombe, Frederick A., Newport, Ky. Electric-lamp socket. No. 999,234; Aug. 1; Sp. p. 81; Gaz. vol. 169; p. 16.
Lavery, James, Carrickfergus, Ireland. Hydraulic telescopic flagstaff. No. 990,570; Apr. 25; Sp. p. 4950; Gaz. vol. 165; p. 864.
Lavigne, Joseph P., Detroit, Mich. Gearing. No. 993,326; May 23; Sp. p. 5334; Gaz. vol. 166; p. 956.
Lavigne, Joseph P., Detroit, Mich. Valve. No. 1,004,578; Oct. 3; Sp. p. 59; Gaz. vol. 171; p. 12.
Lavigne, Joseph P., Detroit, Mich. Valve. No. 1,008,416; Nov. 14; Sp. p. 1778; Gaz. vol. 172; p. 309.
Lavis, William K., assignor of one-half to M. K. Barnum, La Grange, Ill. Roof-frame for freight-cars. No. 1,004,044; Sept. 26; Sp. p. 4099; Gaz. vol. 170; p. 737.
Lavoix, Antoine, Paris, assignor to Société Française de Constructions Mécaniques, (Anciens Etablissements Cail,) Denain, France. Speed-changing gearing. No. 992,783; May 23; Sp. p. 4179; Gaz. vol. 166; p. 772.
Law, Albert, Brooklyn, N. Y. Expansion-bolt. No. 987,381; Mar. 21; Sp. p. 3427; Gaz. vol. 164; p. 614.
Law, Alexander H. (See Parsons and Law.)
Law, Alexander H. (See Parsons, Law, and Stockbridge.)
Law, Fred A., assignor, by mesne assignments, to The Columbia Motor Car Company, Hartford, Conn. Clutch. No. 1,009,424; Nov. 21; Sp. p. 4042; Gaz. vol. 172; p. 697.
Law, Fred A., assignor, by mesne assignments, to The Columbia Motor Car Company, Hartford, Conn. Speed-changing mechanism. No. 1,010,273; Nov. 28; Sp. p. 5745; Gaz. vol. 172; p. 1027.

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Lawhead, James W., Wilmington, Ohio. Connecting device. No. 998,911; July 25; Sp. p. 5066; Gaz. vol. 168; p. 909.
Lawhead, James W., Wilmington, Ohio. Connecting device. No. 1,006,664; Oct. 24; Sp. p. 4645; Gaz. vol. 171; p. 828.
Lawhon, Leonard A., Carthage, N. C. Corn-planter. No. 990,148; Apr. 18; Sp. p. 3961; Gaz. vol. 165; p. 683.
Lawler, Claude B., W. A. Bryan, and J. Keller, Amarillo, Tex. Car-seal. No. 1,010,925; Dec. 5; Sp. p. 1170; Gaz. vol. 173; p. 184.
Lawler, James G., St. Charles, assignor to American Car and Foundry Company, St. Louis, Mo. Six-wheel truck. No. 1,008,723; Nov. 14; Sp. p. 2472; Gaz. vol. 172; p. 418.
Lawler, James J., Pelham, N. Y. Boiler-pressure regulator. No. 1,010,438; Dec. 5; Sp. p. 69; Gaz. vol. 173; p. 14.
Lawler, Robert E., and H. L. Everhart, Rushville, Ill. Stop-board for wagons. No. 991,792; May 9; Sp. p. 2051; Gaz. vol. 166; p. 370.
Lawlor, Simeon C., Duluth, Minn., assignor to American Standard Manufacturing Company, Chicago, Ill. Wringer. No. 984,819; Feb. 21; Sp. p. 3402; Gaz. vol. 163; p. 600.
Lawn, William. (See Rolka, Ignatius B., assignor.)
Lawrence, Albert, Soldiers Home, Cal. Smoke and spark destroyer. No. 1,008,163; Nov. 7; Sp. p. 1094; Gaz. vol. 172; p. 179.
Lawrence, Albert W. (See Green and Lawrence.)
Lawrence, Arthur E., San Marcos, Tex. Storage battery. No. 995,162; June 13; Sp. p. 2329; Gaz. vol. 167; p. 403.
Lawrence, Arthur G., Catonsville, Md. Safety attachment for gas-stoves. No. 991,216; May 2; Sp. p. 831; Gaz. vol. 166; p. 141.
Lawrence, Charles B., Torrington, Conn. Combination tool-rest. No. 983,378; Feb. 7; Sp. p. 260; Gaz. vol. 163; p. 44.
Lawrence, Daniel F., Brandon, Vt. Level. No. 985,684; Feb. 28; Sp. p. 5260; Gaz. vol. 163; p. 928.
Lawrence, Edward M., Lubec, Me. Fish-cutting machine. No. 1,010,156; Nov. 28; Sp. p. 5516; Gaz. vol. 172; p. 988.
Lawrence, Edward V., Downers Grove, Ill. Wagon-hitch. No. 1,010,926; Dec. 5; Sp. p. 1173; Gaz. vol. 173; p. 184.
Lawrence, Ernest M., assignor to Coston Signal Company, New York, N. Y. Life-saving apparatus. No. 995,611; June 20; Sp. p. 3320; Gaz. vol. 167; p. 585.
Lawrence, George R., assignor to The Loew Manufacturing Company, Cleveland, Ohio. Machine for cleaning bottles and like articles. (Reissue.) No. 13,250; May 30; Sp. p. 7014; Gaz. vol. 166; p. 1259.
Lawrence, George W., *et al.* (See Sarlls, Theodore, assignor.)
Lawrence, Harry W., Denver, Colo. Electric-lamp-holding socket. No. 980,805; Jan. 3; Sp. p. 1340; Gaz. vol. 162; p. 215.
Lawrence, Henry L., New York, N. Y. Artificial limb. No. 987,893; Mar. 28; Sp. p. 4537; Gaz. vol. 164; p. 818.
Lawrence, Jay F., Chicago, Ill. Hydrocarbon-lamp. No. 1,012,259; Dec. 19; Sp. p. 4187; Gaz. vol. 173; p. 719.
Lawrence, John N., Nevada, Mo. Automatic vehicle-brake. No. 983,294; Feb. 7; Sp. p. 75; Gaz. vol. 163; p. 15.
Lawrence, Josiah C. F., assignor of one-half to J. Dixon, Prahran, near Melbourne, Victoria, Australia. Aerating-machine. No. 1,000,182; Aug. 8; Sp. p. 2055; Gaz. vol. 169; p. 366.
Lawrence, Lorena M., Lintner, Ill. Gate-latch. No. 991,793; May 9; Sp. p. 2053; Gaz. vol. 166; p. 370.
Lawrence Manufacturing Company. (See Paquette, Exilias, assignor.)
Lawrence, Milton H., Larned, Kans. Ground-wire fastener. No. 1,001,054; Aug. 22; Sp. p. 4015; Gaz. vol. 169; p. 739.
Lawrence, Robert B., Jr., Hoboken, N. J. Pipe-scraper. No. 981,578; Jan. 10; Sp. p. 3154; Gaz. vol. 162; p. 514.
Lawrence, Sidney, Micheldever, England. Aerial propeller. No. 991,331; May 2; Sp. p. 1084; Gaz. vol. 166; p. 181.
Lawrence, Turner M., and F. Snadon, Nashville, Tenn. Refrigerator. No. 996,417; June 27; Sp. p. 5132; Gaz. vol. 167; p. 898.
Lawrence, William A., Charlotte, N. C. Attachment for electric motors. No. 1,001,152; Aug. 22; Sp. p. 4213; Gaz. vol. 169; p. 771.
Lawrence, William A., New York, N. Y., assignor to Intercontinental Rubber Company. Separating rubber-like gum from its vegetable source. No. 982,373; Jan. 24; Sp. p. 4860; Gaz. vol. 162; p. 841.
Lawrence, William A., assignor to Ideal Linen Mesh Company, Poughkeepsie, N. Y. Circular-warp-knitting machine. No. 1,005,720; Oct. 10; Sp. p. 2521; Gaz. vol. 171; p. 433.
Lawrence, William E. (See Homsher and Lawrence.)
Lawrence, William G., Crescent City, Ill., assignor of one-half to J. C. Vanatta, Brookston, Ind. Excavator. No. 992,679; May 16; Sp. p. 3957; Gaz. vol. 166; p. 706.
Lawrence, William P., Colorado Springs, Colo. Sheet-metal frame. No. 988,360; Apr. 4; Sp. p. 145; Gaz. vol. 165; p. 25.

Lawry, Thomas, Rankin, Pa. Poultry feeder and exerciser. No. 1,003,760; Sept. 19; Sp. p. 3431; Gaz. vol. 170; p. 612.
Laws, George, Philipsburg, Pa. Miner's lamp. No. 982,612; Jan. 24; Sp. p. 5357; Gaz. vol. 162; p. 923.
Lawson, Arnold. (See Milson, John R., assignor.)
Lawson, August, assignor of one-half to N. A. Johnson, Jamestown, N. Y. Tool-holder. No. 987,307; Mar. 21; Sp. p. 3283; Gaz. vol. 164; p. 590.
Lawson, Benjamin S., Brooklyn, assignor to A. L. Merrick, Syracuse, N. Y. Roller-bearing. No. 999,570; Aug. 1; Sp. p. 747; Gaz. vol. 169; p. 129.
Lawson, Daniel L., Louisville, Ky. Combination-padlock. No. 995,879; June 20; Sp. p. 3909; Gaz. vol. 167; p. 679.
Lawson, James W., Providence, R. I. Gem-setting. No. 983,295; Feb. 7; Sp. p. 77; Gaz. vol. 163; p. 15.
Lawson, Moses F., assignor of one-fourth to J. Matz, Stonega, Va. Safety attachment for elevators. No. 1,007,579; Oct. 31; Sp. p. 6663; Gaz. vol. 171; p. 1200.
Lawson, Rudolph W., and H. B. Snell, assignors of one-half to F. W. Thompson, Denver, Colo. Automatic time-switch. No. 989,527; Apr. 11; Sp. p. 2615; Gaz. vol. 165; p. 441.
Lawson, Welcome H., Poughkeepsie, N. Y. Centrifugal machine. No. 996,776; July 4; Sp. p. 350; Gaz. vol. 168; p. 60.
Lawson, Welcome H., Poughkeepsie, N. Y. Spring. No. 1,004,579; Oct. 3; Sp. p. 60; Gaz. vol. 171; p. 12.
Lawson, Welcome H., Poughkeepsie, N. Y. Step-bearing. No. 1,012,662; Dec. 26; Sp. p. 5017; Gaz. vol. 173; p. 900.
Lawson, Welcome H., Poughkeepsie, N. Y. Step-bearing. No. 1,012,663; Dec. 26; Sp. p. 5018; Gaz. vol. 173; p. 901.
Lawson, William C., Roanoke, Va. Chute for storage-bins and the like. No. 984,574; Feb. 21; Sp. p. 2876; Gaz. vol. 163; p. 512.
Lawson, William C., Roanoke, Va. Tramway system. No 996,653; July 4; Sp. p. 120; Gaz. vol. 168; p. 21.
Lawson, William C., Roanoke, Va. Flying-machine. No. 1,008,417; Nov. 14; Sp. p. 1779; Gaz. vol. 172; p. 310.
Lawton, Charles B., Penn township, Allegheny county, Pa. Brick, tile, &c. No. 997,303; July 11; Sp. p. 1491; Gaz. vol. 168; p. 272.
Lawton, Charles L., Hancock, Mich. Stamp-shoe. No. 1,012,664; Dec. 26; Sp. p. 5019; Gaz. vol. 173; p. 901.
Lawton, Walter M., *et al.* (See Smith and Goddard, assignors.)
Lay, Ernest C., and O. P. M. Squires, Laporte, Ind. Vacuum-seal. No. 1,005,721; Oct. 10; Sp. p. 2526; Gaz. vol. 171; p. 433.
Laycock, Thomas B., assignor to T. B. Laycock Manufacturing Company, Indianapolis, Ind. Pawl-and-rack mechanism for couches. No. 981,287; Jan. 10; Sp. p. 2549; Gaz. vol. 162; p. 416.
Laycock, Thomas B., assignor to T. B. Laycock Manufacturing Company, Indianapolis, Ind. Extension-couch. No. 981,288; Jan. 10; Sp. p. 2551; Gaz. vol. 162; p. 416.
Laycock, Thomas B., assignor to T. B. Laycock Manufacturing Company, Indianapolis, Ind. Bed-couch. No. 981,289; Jan. 10; Sp. p. 2555; Gaz. vol. 162; p. 416.
Layne, Charles F. (See Layne, Hall, and Layne.)
Layne, David H., Cove, Oreg. Computing yard-measure. No. 988,790; Apr. 4; Sp. p. 1069; Gaz. vol. 165; p. 171.
Layne, Mahlon E., Houston, Tex. Well mechanism. No. 998,186; July 18; Sp. p. 3434; Gaz. vol. 168; p. 619.
Layne, Mahlon E., Houston, Tex. Well-strainer. No. 1,001,655; Aug. 29; Sp. p. 5231; Gaz. vol. 169; p. 970.
Layne, Mahlon E., Houston, Tex. Roller-bearing for shafts. No. 1,009,322; Nov. 21; Sp. p. 3794; Gaz. vol. 172; p. 660.
Layne, Mahlon E., S. N. Hall, and C. F. Layne, Houston, Tex. Hydraulic swivel. No. 992,363; May 16; Sp. p. 3316; Gaz. vol. 166; p. 597.
Layne, P. J., administrator. (See Doherty, James.)
Layton, James R., Paris, Ontario, Canada. Match-safe. No. 980,293; Jan. 3; Sp. p. 213; Gaz. vol. 162; p. 41.
Layton, Le Roy. (See Fish and Layton.)
Le Baron, Robert O., Portsmouth, Ohio. Starting device for internal-combustion engines. No. 1,005,045; Oct. 3; Sp. p. 1038; Gaz. vol. 171; p. 173.
Le Beau, Ernest A., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable brake-head. No. 990,888; May 2; Sp. p. 130; Gaz. vol. 166; p. 24.
Le Beau, Ernest A., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third suspension for brake-beams. No. 990,889; May 2; Sp. p. 132; Gaz. vol. 166; p. 25.
Le Beau, George A., and R. R. Thresher, assignors of one-third to C. E. Norton, Nashville, Tenn. Photo-engraving device. No. 999,115; July 25; Sp. p. 5494; Gaz. vol. 168; p. 978.
Le Blanc, Ernest C. (See Jensen and Le Blanc.)
Le Blanc, Thomas M. (See Penny and Le Blanc.)
Le Blond, Richard K., and W. F. Groene, assignors to R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Lathe. No. 980,971; Jan. 10; Sp. p. 1816; Gaz. vol. 162; p. 303.
Le Blond, Richard K., and W. F. Groene, assignors to R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Gearing. No. 980,972; Jan. 10; Sp. p. 1818; Gaz. vol. 162; p. 303.

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Le Blond, Richard K., and W. F. Groene, assignors to R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Gearing for lathes, &c. No. 980,973; Jan. 10; Sp. p. 1821; Gaz. vol. 162; p. 303.
Le Blond, Richard K., and W. F. Groene, assignors to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Lathe-gearing. No. 980,974; Jan. 10; Sp. p. 1823; Gaz. vol. 162; p. 304.
Le Blond, Richard K., and W. F. Groene, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Relieving attachment for lathes. No. 980,975; Jan. 10; Sp. p. 1825; Gaz. vol. 162; p. 304.
Le Boeuf, Arthur W., Woonsocket, R. I., assignor to Electric Compositor Company, New York, N. Y. Mold-lock for linotype-machines. No. 982,834; Jan. 31; Sp. p. 5829; Gaz. vol. 162; p. 1026.
Le Boeuf, Arthur W., Woonsocket, R. I., assignor to Electric Compositor Company, New York, N. Y. Adjustable trimming mechanism. No. 998,619; July 25; Sp. p. 4392; Gaz. vol. 168; p. 804.
Le Boeuf, Arthur W., Woonsocket, R. I., assignor to Electric Compositor Company, New York, N. Y. Linotype-mold. No. 1,005,438; Oct. 10; Sp. p. 1897; Gaz. vol. 171; p. 335.
Le Boeuf, Evariste, Syracuse, N. Y. Sash-lock. No. 989,987; Apr. 18; Sp. p. 3647; Gaz. vol. 165; p. 631.
Le Claire Branding Iron Company, The. (See Le Claire, Lee H., assignor.)
Le Claire, Lee H., Denver, Colo., assignor to The Le Claire Branding Iron Company. Branding apparatus. No. 984,768; Feb. 21; Sp. p. 3306; Gaz. vol. 163; p. 583.
Le Crinoid Société Anonyme. (See Lecoeur and Rudolf, assignors.)
Le Docte, Armand. (See Le Docte, Georges and A.)
Le Docte, Georges, Brussels, and A. Le Docte, Gembloux, Belgium. Press for beet-pulp and the like. No. 1,004,283; Sept. 26; Sp. p. 4630; Gaz. vol. 170; p. 819.
Le Grand, Robert M., assignor of one-half to W. A. Schnoeblen, Kansas City, Mo. Lamp-chimney holder. No. 984,944; Feb. 21; Sp. p. 3634; Gaz. vol. 163; p. 641.
Le Guisquet, Marie J. L. S., Quimper, France. Box with movable slides for packing pictures. No. 1,004,162; Sept. 26; Sp. p. 4399; Gaz. vol. 170; p. 778.
Le Meille, Auguste G., Athens, Ga. Boat. No. 996,654; July 4; Sp. p. 121; Gaz. vol. 168; p. 22.
Le Moon, Axel R., Chicago, Ill. Friction driving mechanism. No. 999,572; Aug. 1; Sp. p. 751; Gaz. vol. 169; p. 129.
Le Pontois, Leon J., New Rochelle, N. Y., assignor of one-half to B. Hurd, Nutley, N. J. Magnetic testing device. No. 1,000,938; Aug. 15; Sp. p. 3704; Gaz. vol. 169; p. 664.
Le Pontois, Leon J., New Rochelle, N. Y., assignor of one-half to B. Hurd, Nutley, N. J. Electric relay. No. 1,000,939; Aug. 15; Sp. p. 3706; Gaz. vol. 169; p. 664.
Le Rossignol, Robert. (See Haber and Le Rossignol.)
Le Roy, Harry, *et al.* (See Turner, Charles F., assignor.)
Lea, Henry I., assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburg, Pa. Gas-producer. No. 999,807; Aug. 8; Sp. p. 1215; Gaz. vol. 169; p. 238.
Lea, William C., Chickasha, Okla. Clothes-line clamp. No. 1,000,927; Aug. 15; Sp. p. 3676; Gaz. vol. 169; p. 660.
Leach, Charles T., Yale, Okla. Puzzle. No. 983,730; Feb. 7; Sp. p. 1015; Gaz. vol. 163; p. 162.
Leach, Charles T., and G. W. Canfield, Yale, Okla. Starting device. No. 1,013,027; Dec. 26; Sp. p. 5867; Gaz. vol. 173; p. 1026.
Leach, John M., Melrose, assignor, by mesne assignments, to Judson L. Thomson Manufacturing Company, Waltham, Mass. Steam-generator. No. 983,296; Feb. 7; Sp. p. 78; Gaz. vol. 163; p. 15.
Leach, Noah P., Pasadena, Cal. Loaded shot-shell. No. 997,566; July 11; Sp. p. 2005; Gaz. vol. 168; p. 358.
Leach, Ralph W. E., Castalia, Ohio. Feeder for slurry, wood-pulp, &c. No. 999,321; Aug. 1; Sp. p. 243; Gaz. vol. 169; p. 45.
Leacock, Robert J., trustee. (See Fleege, Frank H., assignor.)
Leahan, James C., Philadelphia, Pa. Spring-guide. No. 986,183; Mar. 7; Sp. p. 894; Gaz. vol. 164; p. 144.
Leahy, Morris J., *et al.* (See Milner, Henry J., assignor.)
Leahy, William S. (See Souden and Leahy.)
Leake, Jordan F., Knoxville, Tenn. Shearing-machine. No. 995,163; June 13; Sp. p. 2330; Gaz. vol. 167; p. 403.
Leal, Manuel S., Jr., Somerville, Mass. Music-leaf turner. No. 991,519; May 9; Sp. p. 1477; Gaz. vol. 166; p. 276.
Lealand, Arthur, Middleton, near Manchester, England. Filling-machine. No. 1,005,984; Oct. 17; Sp. p. 3107; Gaz. vol. 171; p. 558.
Leaphart, Charlton E., Lexington, S. C. Cotton-picker. No. 993,180; May 23; Sp. p. 5037; Gaz. vol. 166; p. 909.
Learman, George W., Cleveland, Ohio. Combined swimming and life-preserving device. No. 1,008,653; Nov. 14; Sp. p. 2333; Gaz. vol. 172; p. 394.
Leary, John H., Jr. (See Hanley and Leary.)
Lease, John C., assignor of one-third to F. Janzen and one-third to C. Bartels, Hamilton, Ohio. Roll-music punch. No. 1,005,562; Oct. 10; Sp. p. 2174; Gaz. vol. 171; p. 379.
Leasure, Ira L., Parnassus, Pa. Bottle-stopper. No. 998,354; July 18; Sp. p. 3838; Gaz. vol. 168; p. 681.
Leasure, James W., assignor to Leasure Vacuum Cleaner Company, Limited, Bradford, Pa. Vacuum cleaning apparatus. No. 992,364; May 16; Sp. p. 3319; Gaz. vol. 166; p. 597.
Leasure Vacuum Cleaner Company. (See Leasure, James W., assignor.)
Leather Finishing Machine Company. (See Turner, William B., assignor.)
Leatherwood, Charles F. (See Leatherwood, Roy A. and C. F.)
Leatherwood, Roy A. and C. F., Victoria, Tex. Cotton-stalk cutter. No. 982,613; Jan. 24; Sp. p. 5359; Gaz. vol. 162; p. 924.
Leatherwood, Roy A. and C. F., Victoria, Tex. Cotton-stalk cutter. No. 1,011,128; Dec. 5; Sp. p. 1608; Gaz. vol. 173; p. 254.
Leave, Andrew G., assignor of one-half to C. J. White, Minot, N. D. Plow-lay. No. 995,973; June 20; Sp. p. 4088; Gaz. vol. 167; p. 712.
Leavengood, Charles H., assignor of one-half to J. A. Hesket, Coshocton, Ohio. Glove. No. 1,005,437; Oct. 10; Sp. p. 1895; Gaz. vol. 171; p. 335.
Leavengood, Clyde S. (See Forgerson, Charles, assignor.)
Leaver, William H., Chicago, Ill., assignor to Nye Tool and Machine Works. Die-stock. No. 986,473; Mar. 14; Sp. p. 1520; Gaz. vol. 164; p. 273.
Leavitt, Byron C., trustee. (See Watson, Alexander, assignor.)
Leavitt, Frank M., New York, N. Y., assignor, by mesne assignments, to General Electric Company. Slotting-machine. No. 996,353; June 27; Sp. p. 4970; Gaz. vol. 167; p. 875.
Leavitt, Frank M., New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Feed mechanism for perforating-machines. No. 1,010,157; Nov. 28; Sp. p. 5517; Gaz. vol. 172; p. 989.
Leavitt, Harry W., De Kalb, Ill. Traction-plow. No. 990,993; May 2; Sp. p. 347; Gaz. vol. 166; p. 60.
Leavitt Machine Company, The. (See Smith and Williams, assignors.)
Leavitt, Thomas A., Sutton, W. Va. Internal-combustion engine. No. 980,537; Jan. 3; Sp. p. 787; Gaz. vol. 162; p. 126.
Lebar, James M., Langdon, N. D. Planting-machine. No. 991,071; May 2; Sp. p. 505; Gaz. vol. 166; p. 87.
Lebby, States L., Charleston, S. C. Reflector and search-light. No. 981,290; Jan. 10; Sp. p. 2556; Gaz. vol. 162; p. 417.
Lebherz, Harry J. (See Young and Lebherz.)
Lebherz, Harry J., Frederick, Md. Combined tooth-brush and paste-tube holder. No. 1,005,985; Oct. 17; Sp. p. 3111; Gaz. vol. 171; p. 559.
Lebiedzinski, Thomas, Chicago, Ill. Hog-scraper. No. 990,754; Apr. 25; Sp. p. 5364; Gaz. vol. 165; p. 925.
Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Condenser. No. 984,278; Feb. 14; Sp. p. 2240; Gaz. vol. 163; p. 379.
Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Condenser. No. 984,279; Feb. 14; Sp. p. 2245; Gaz. vol. 163; p. 379.
Leblanc, Maurice, assignor to Société Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Condenser. No. 984,435; Feb. 14; Sp. p. 2539; Gaz. vol. 163; p. 430.
Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Condenser. No. 990,278; Apr. 25; Sp. p. 4266; Gaz. vol. 165; p. 760.
Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Fluid-ejector. No. 1,001,153; Aug. 22; Sp. p. 4215; Gaz. vol. 169; p. 771.
Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Jet apparatus. No. 1,001,154; Aug. 22; Sp. p. 4216; Gaz. vol. 169; p. 771.
Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Condenser. No. 1,004,664; Oct. 3; Sp. p. 241; Gaz. vol. 171; p. 42.
Leblanc, Maurice, assignor to Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc, Paris, France. Refrigerating-machine. No. 1,005,851; Oct. 17; Sp. p. 2811; Gaz. vol. 171; p. 511.
Leblond, Eugène J. J., New York, N. Y. Life-boat. No. 1,005,563; Oct. 10; Sp. p. 2177; Gaz. vol. 171; p. 379.
Lebouvier, Aime. (See Foix and Lebouvier.)
Lechtenberg, Henry, Quincy, Ill. Drawer-operating device. No. 1,006,237; Oct. 17; Sp. p. 3685; Gaz. vol. 171; p. 648.
Lecoeur, Albert, Rouen, and P. Rudolf, St. Aubin-jouxte-Boulleng, assignors to Le Crinoid Société Anonyme, Rouen, France. Manufacture of threads from cupro-ammoniacal solutions of cellulose. No. 980,294; Jan. 3; Sp. p. 214; Gaz. vol. 162; p. 41.

Alphabetical list of patentees—Continued.

Lecuyer, Frederick F., assignor of one-half to F. W. Spencer, Salt Lake City, Utah. Self-closing cock. No. 1,002,591; Sept. 5; Sp. p. 914; Gaz. vol. 170; p. 136.
Leddy, Herbert L., McKinney, Tex. Storm-cellar. No. 984,942; Feb. 21; Sp. p. 3632; Gaz. vol. 163; p. 640.
Leder, Ernst, Berlin, Germany. Calculating-machine. No. 989,507; Apr. 11; Sp. p. 2558; Gaz. vol. 165; p. 434.
Lederer, Anton, Vienna, Austria-Hungary, assignor to Westinghouse Lamp Company. Manufacture of tungsten dioxid. No. 984,143; Feb. 14; Sp. p. 1923; Gaz. vol. 163; p. 330.
Lederer, Anton, Atzgersdorf, near Vienna, Austria-Hungary, assignor to Westinghouse Lamp Company, Bloomfield, N. J. Production of tungsten filaments. No. 999,235; Aug. 1; Sp. p. 84; Gaz. vol. 169; p. 16.
Lederer, Jacob, New York, N. Y. Cape or similar garment. No. 997,304; July 11; Sp. p. 1492; Gaz. vol. 168; p. 272.
Lederer, Leonhard, Sulzbach, Germany. Preparing cellulose esters in definite forms. No. 999,236; Aug. 1; Sp. p. 85; Gaz. vol. 169; p. 17.
Lederer, Walter S., Providence, R. I. Bracelet. No. 1,002,922; Sept. 12; Sp. p. 1676; Gaz. vol. 170; p. 289.
Ledermann, Leo, Berlin, Germany. Manufacture of hollow safety-belts. No. 996,097; June 27; Sp. p. 4354; Gaz. vol. 167; p. 788.
Ledford, Edward, assignor of one-third to H. Sauter and one-third to W. J. Gray, Toledo, Ohio. Dump-wagon. No. 980,976; Jan. 10; Sp. p. 1827; Gaz. vol. 162; p. 305.
Ledgett, Samuel, Wellington, Ohio. Rail-joint. No. 999,237; Aug. 1; Sp. p. 86; Gaz. vol. 169; p. 17.
Ledoux, Henri B., *et al.* (See Chartrand, Jean B., assignor.)
Ledoux, John W., Swarthmore, Pa. Valve mechanism. No. 984,820; Feb. 21; Sp. p. 3403; Gaz. vol. 163; p. 600.
Ledoux, John W., Swarthmore, Pa. Flow-controlling mechanism. No. 993,384; May 30; Sp. p. 5477; Gaz. vol. 166; p. 1008.
Ledoux, John W., Swarthmore, Pa. Valve mechanism. No. 1,000,022; Aug. 8; Sp. p. 1665; Gaz. vol. 169; p. 312.
Lee, Albro, assignor of one-half to E. F. Biggins, Cleveland, Ohio. Picture-hanger. No. 980,295; Jan. 3; Sp. p. 215; Gaz. vol. 162; p. 41.
Lee, Alva D., Boston, Mass., assignor to Lee Furnace and Burner Company. Powdered-coal burner. No. 988,271; Mar. 28; Sp. p. 5333; Gaz. vol. 164; p. 943.
Lee, Alva D., Boston, Mass., assignor to Lee Furnace and Burner Company. Scrubber. No. 988,272; Mar. 28; Sp. p. 5336; Gaz. vol. 164; p. 944.
Lee, Anton, Los Angeles, Cal. Door-lock. No. 1,000,527; Aug. 15; Sp. p. 2803; Gaz. vol. 169; p. 517.
Lee, Charles, and J. M. Duthie, Butte, Mont. Jar-closure. No. 988,116; Mar. 28; Sp. p. 5038; Gaz. vol. 164; p. 894.
Lee, Charles H., assignor of one-half to E. L. Fell, Philadelphia, Pa. Counting attachment for delivery apparatus. No. 987,727; Mar. 28; Sp. p. 4163; Gaz. vol. 164; p. 761.
Lee, Daisy, Chicago Heights, Ill. Massage instrument. No. 1,007,879; Nov. 7; Sp. p. 532; Gaz. vol. 172; p. 81.
Lee, Ernest W., Toronto, Ontario, Canada. Flour-sifter. No. 1,007,119; Oct. 31; Sp. p. 5655; Gaz. vol. 171; p. 1038.
Lee, Felix L., Dallas, Tex., assignor to Continental Gin Company, Birmingham, Ala. Feeding mechanism for tamper cotton-presses. No. 1,004,045; Sept. 26; Sp. p. 4102; Gaz. vol. 170; p. 737.
Lee, Frederick J., Wichita, Kans. Door-brace. No. 985,184; Feb. 28; Sp. p. 4169; Gaz. vol. 163; p. 758.
Lee, Frederick J., Wichita, Kans. Door-holder. No. 985,185; Feb. 28; Sp. p. 4170; Gaz. vol. 163; p. 759.
Lee, Frederick J., Wichita, Kans. Door-fastener. No. 987,894; Mar. 28; Sp. p. 4538; Gaz. vol. 164; p. 818.
Lee, Frederick J., Wichita, Kans. Door-latch. No. 996,098; June 27; Sp. p. 4355; Gaz. vol. 167; p. 788.
Lee, Frederick J., Wichita, Kans. Door-brace. No. 1,008,346; Nov. 14; Sp. p. 1555; Gaz. vol. 172; p. 284.
Lee Furnace and Burner Company. (See Lee, Alva D., assignor.)
Lee, George, South Whitley, Ind. Stovepipe-holder. No. 981,435; Jan. 10; Sp. p. 2890; Gaz. vol. 162; p. 467.
Lee, George H., Omaha, Nebr. Incubator-lamp chimney. No. 998,537; July 18; Sp. p. 4197; Gaz. vol. 168; p. 744.
Lee, George H., Omaha, Nebr. Incubator. No. 999,571; Aug. 1; Sp. p. 750; Gaz. vol. 169; p. 129.
Lee, Georgia M. (See Martin, William H., assignor.)
Lee, Harry M., and F. G. Booth, New London, Conn., assignors, by mesne assignments, to Steel Tempering Process Company. Compound for treating steel. No. 987,468; Mar. 21; Sp. p. 3614; Gaz. vol. 164; p. 644.
Lee, Helen, administratrix. (See Lee, William W.)
Lee, Isaac E., Broadway, assignor, by mesne assignments, to J. W. Wise, Harrisonburg, Va. Cheese-cutter. No. 983,501; Feb. 7; Sp. p. 522; Gaz. vol. 163; p. 84.
Lee, Job, Kettering, England. Nailing-machine. No. 1,000,023; Aug. 8; Sp. p. 1666; Gaz. vol. 169; p. 313.
Lee, John F., Lippton, Ark. Hide-stretching device. No. 982,147; Jan. 17; Sp. p. 4376; Gaz. vol. 162; p. 732.
Lee, John W., Jr. (See Walker, Henry W., assignor.)
Lee, Katherine G. (See Lee, Laura and K. G.)
Lee, Laura and K. G., New York, N. Y. Shampoo-cap. No. 986,728; Mar. 14; Sp. p. 2058; Gaz. vol. 164; p. 361.
Lee, Leif, Youngstown, Ohio. Feeding apparatus for gas-producers. No. 992,431; May 16; Sp. p. 3451; Gaz. vol. 166; p. 621.
Lee, Leroy M. (See Austin, Joseph E., assignor.)
Lee, Monroe, Little Rock, Ark. Razor-strop. No. 986,398; Mar. 7; Sp. p. 1355; Gaz. vol. 164; p. 218.
Lee, Oliver W., Munday, Tex. Fumigator. No. 990,826; Apr. 25; Sp. p. 5517; Gaz. vol. 165; p. 950.
Lee, Philip D., London, England. Carbureter for internal-combustion engines. No. 998,355; July 18; Sp. p. 3839; Gaz. vol. 168; p. 682.
Lee, Samuel W., Haughton, La. Tongs. No. 990,994; May 2; Sp. p. 348; Gaz. vol. 166; p. 60.
Lee, Thacker E., Washington, D. C. Dental investment-cup. No. 1,013,028; Dec. 26; Sp. p. 5868; Gaz. vol. 173; p. 1026.
Lee, Theodore K., New York, N. Y. Dabbing-brush for wool-combers. No. 984,943; Feb. 21; Sp. p. 3633; Gaz. vol. 163; p. 640.
Lee, Thomas E., assignor of one-third to J. W. Hastain, San Diego, Cal. Device for operating railway-switches. No. 982,214; Jan. 17; Sp. p. 4506; Gaz. vol. 162; p. 755.
Lee, Ulysses G. (See Owens and Lee.)
Lee, Ulysses G. (See Owens, Lee, and Lyle.)
Lee, Ulysses G., Brooklyn, N. Y., assignor to Montague Mailing Machinery Company. Addressing-plate. No. 982,076; Jan. 17; Sp. p. 4254; Gaz. vol. 162; p. 708.
Lee, Ulysses G., Brooklyn, N. Y., assignor to Montague Mailing Machinery Company, New York, N. Y. Paper-feeding mechanism for addressing and printing mechanism and the like. No. 1,002,529; Sept. 5; Sp. p. 776; Gaz. vol. 170; p. 114.
Lee, Ulysses G., assignor to Montague Mailing Machinery Co., New York, N. Y. Engraving-machine. No. 1,006,238; Oct. 17; Sp. p. 3687; Gaz. vol. 171; p. 649.
Lee, Ulysses G., and W. A. Darrah, Brooklyn, N. Y. Flying-machine. No. 989,786; Apr. 18; Sp. p. 3202; Gaz. vol. 165; p. 562.
Lee, William A., Boston, Mass. Dust-receiver for vacuum-cleaners. No. 1,010,646; Dec. 5; Sp. p. 549; Gaz. vol. 173; p. 87.
Lee, William C., Plaquemine, La. Boll-weevil trap. No. 997,141; July 4; Sp. p. 1145; Gaz. vol. 168; p. 185.
Lee, William W., deceased, Northampton, Mass.; H. Lee, administratrix. Hollow-handled knife, fork, and other implement. No. 1,012,088; Dec. 19; Sp. p. 3812; Gaz. vol. 173; p. 661.
Leech, Charles M., Lima, Ohio. Transmission-gear. No. 981,291; Jan. 10; Sp. p. 2558; Gaz. vol. 162; p. 417.
Leech, Charles M., Lima, Ohio. Transmission-gear. No. 993,079; May 23; Sp. p. 4827; Gaz. vol. 166; p. 877.
Leech, Charles M., Lima, Ohio. Vehicle-spring. No. 1,007,120; Oct. 31; Sp. p. 5657; Gaz. vol. 171; p. 1039.
Leech, Hermann B., Halifax, England. Oil-engine. No. 987,246; Mar. 21; Sp. p. 3142; Gaz. vol. 164; p. 569.
Leeds Forge Company Limited, The. (See Ferguson, Thomas, assignor.)
Leedy Manufacturing Company. (See Wanamaker, Charles B., assignor.)
Leeming, John R., Somerset, Colo. Gas-burner tip. No. 1,005,722; Oct. 10; Sp. p. 2527; Gaz. vol. 171; p. 433.
Leeper, Edward W., assignor, by mesne assignments, to F. B. Cook, Chicago, Ill. Thermo-electric circuit-breaker. No. 997,838; July 11; Sp. p. 2644; Gaz. vol. 168; p. 455.
Leeper, Edward W., assignor, by mesne assignments, to F. B. Cook, Chicago, Ill. Thermo-electric circuit-breaker. No. 997,924; July 11; Sp. p. 2835; Gaz. vol. 168; p. 485.
Leeper, Grant, Visalia, Cal. Spring-wheel. No. 992,719; May 16; Sp. p. 4032; Gaz. vol. 166; p. 720.
Lees, Archibald. (See Lees, Walter, T. W., and A.)
Lees, Thomas W. (See Lees, Walter, T. W., and A.)
Lees, Walter, T. W., and A., Halifax, England. Feed-water regulator for steam-generators. No. 1,000,024; Aug. 8; Sp. p. 1668; Gaz. vol. 169; p. 313.
Leese, Thaddeus S., Avalon, Pa. Aerating-churn. No. 984,144; Feb. 14; Sp. p. 1924; Gaz. vol. 163; p. 331.
Leet, Arthur W., Madison, Ohio. Locked nut. No. 1,012,376; Dec. 19; Sp. p. 4429; Gaz. vol. 173; p. 758.
Leet, Robert A., Oakland, Cal. Poison-bottle cork. No. 985,354; Feb. 28; Sp. p. 4542; Gaz. vol. 163; p. 815.
Lefebvre, Louis, assignor of one-half to J. A. Buchanan, Chicago, Ill. Spring-motor fan. No. 1,002,065; Aug. 29; Sp. p. 6125; Gaz. vol. 169; p. 1107.
Lefever, Charles F., assignor of one-half to E. S. Trites, Toledo, Ohio. Firearm. No. 992,720; May 16; Sp. p. 4035; Gaz. vol. 166; p. 721.
Leffel, Clarence E., assignor to The Spirella Company, Meadville, Pa. Electroplating-rack. No. 1,010,647; Dec. 5; Sp. p. 550; Gaz. vol. 173; p. 87.
Leffel, Clarence E., assignor to The Spirella Company, Meadville, Pa. Electroplating-rack. No. 1,010,648; Dec. 5; Sp. p. 551; Gaz. vol. 173; p. 87.
Lefferts, Dwight C., Redlands, assignor of one-half to G. D. Parker, Riverside, Cal. Grading and sterilizing fruit. No. 985,745; Feb. 28; Sp. p. 5417; Gaz. vol. 163; p. 950.
Leffler, George X., Talala, Okla. Wheel. No. 1,011,351; Dec. 12; Sp. p. 2162; Gaz. vol. 173; p. 368.

Alphabetical list of patentees—Continued.

Leflaive, Joseph, St.-Étienne, Loire, France. Double-compression press. No. 1,000,823; Aug. 15; Sp. p. 3459; Gaz. vol. 169; p. 623.

Leflaive, Joseph, St.-Étienne, Loire, France. Means for filling the molds of briqueting-presses. No. 1,000,824; Aug. 15; Sp. p. 3460; Gaz. vol. 169; p. 624.

Leftwich, Andrew B., and C. N. Markle, assignors of one-fourth to I. Stamm and one-fourth to H. F. Chandler, Pueblo, Colo. Safety appliance for air-brakes. No. 1,006,239; Oct. 17; Sp. p. 3694; Gaz. vol. 171; p. 649.

Legault, Bruno, Montreal, Quebec, Canada. Fare-box. No. 1,003,054; Sept. 12; Sp. p. 1920; Gaz. vol. 170; p. 332.

Legg, Byron S. (See Legg and Dutton.)

Legg, Wilber C. and B. S., and B. C. Dutton, Windfall, Ind.; said B. S. Legg and B. C. Dutton each assignor of eight and one-third one-hundredths to said W. C. Legg. Corn snapping and husking machine. No. 1,002,530; Sept. 5; Sp. p. 778; Gaz. vol. 170; p. 114.

Legge, Thomas A., Chicago, Ill., assignor to The Adams & Westlake Company. Lamp-fixture. No. 994,847; June 13; Sp. p. 1657; Gaz. vol. 167; p. 297.

Legge, Thomas A., and P. Huston, Chicago, Ill., assignors to The Adams & Westlake Company. Shade-holder for lamps. No. 998,971; July 25; Sp. p. 5219; Gaz. vol. 168; p. 920.

Leggett, Edward B., and T. W. Appleyard, New York, N. Y., assignors to L. M. Cowdrey and F. Winkhaus, New York, N. Y. Firearm. No. 1,007,709; Nov. 7; Sp. p. 125; Gaz. vol. 172; p. 20.

Leggett, Evalena O., Niagara Falls, N. Y. Insulating compound. No. 1,005,240; Oct. 10; Sp. p. 1442; Gaz. vol. 171; p. 263.

Leggett, Ross M., Ann Arbor, Mich. Ozonizer. No. 1,010,777; Dec. 5; Sp. p. 849; Gaz. vol. 173; p. 132.

Legh, Sydney C., Oberhofen, Switzerland, assignor of one-half to C. A. Gifford, Summit, N. J. Playing-cards. No. 1,007,460; Oct. 31; Sp. p. 6386; Gaz. vol. 171; p. 1159.

Legris, Edgar S. (See Legris, Joseph and E. S.)

Legris, Joseph and E. S., Bourbonnais, Ill. Feeder for corn-shellers. No. 1,008,278; Nov. 7; Sp. p. 1362; Gaz. vol. 172; p. 222.

Lehberger, George, Newark, N. J. Engine or motor. No. 999,047; July 25; Sp. p. 5381; Gaz. vol. 168; p. 957.

Lehberger, George, Newark, N. J. Flying-machine. No. 1,009,157; Nov. 21; Sp. p. 3383; Gaz. vol. 172; p. 599.

Lehman, Frederick W., Mineapolis, Minn. Hydrocarbon-burner. No. 1,005,241; Oct. 10; Sp. p. 1443; Gaz. vol. 171; p. 264.

Lehman, Henry G., Windber, Pa. Conduit-creeper. No. 1,000,825; Aug. 15; Sp. p. 3462; Gaz. vol. 169; p. 624.

Lehman, Isador, Cleveland, Ohio. Shaft-coupling. No. 980,296; Jan. 3; Sp. p. 216; Gaz. vol. 162; p. 42.

Lehman, Werner. (See Peik and Lehman.)

Lehmann, Alfred H., St. Louis, Mo. Car-door fastener. No. 984,485; Feb. 14; Sp. p. 2639; Gaz. vol. 163; p. 446.

Lehmann, Anthony A., Baltimore, Md. Music-leaf turner. No. 997,839; July 11; Sp. p. 2652; Gaz. vol. 168; p. 455.

Lehmann, Charles, Jersey City, N. J. Eyeglass-cleaner. No. 1,003,761; Sept. 19; Sp. p. 3433; Gaz. vol. 170; p. 612.

Lehmann, Emil, Hammond, Ind. Canopy-couch. No. 1,004,796; Oct. 3; Sp. p. 529; Gaz. vol. 171; p. 88.

Lehmann, Ferdinand, Omaha, Nebr. Adjustable ladder-support. No. 1,004,284; Sept. 26; Sp. p. 4632; Gaz. vol. 170; p. 819.

Lehmann, Hermann. Magdeburg-Sudenburg, Germany. Recoil-gun. No. 988,791; Apr. 4; Sp. p. 1070; Gaz. vol. 165; p. 171.

Lehmann, Hugo, Waco, Tex. Lamp attachment. No. 1,007,461; Oct. 31; Sp. p. 6389; Gaz. vol. 171; p. 1160.

Lehmann, John, and M. Woltek, Wellsville, N. Y. Hose-coupling. No. 994,762; June 13; Sp. p. 1457; Gaz. vol. 167; p. 268.

Lehmann, Joseph. (See Achenbach, Dreifus, and Lehmann.)

Lehmann, Paul, Schöneberg, near Berlin, Germany. Air-ship. No. 998,538; July 18; Sp. p. 4198; Gaz. vol. 168; p. 744.

Lehmann, William J., Indianapolis, Ind. Propeller for air-craft. No. 996,987; July 4; Sp. p. 829; Gaz. vol. 168; p. 133.

Lehner, Friedrich, Zurich, Switzerland. Preparing artificial threads or films, as also artificial horsehair. No. 986,017; Mar. 7; Sp. p. 565; Gaz. vol. 164; p. 90.

Lehnert, Henry G., Philadelphia, Pa. Musical instrument. No. 982,732; Jan. 24; Sp. p. 5594; Gaz. vol. 162; p. 962.

Lehoczky, Paul von. (See D'Eustachio and Lehoczky.)

Lehr, Edwin. (See James and Lehr.)

Lehr, Edwin, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Unit switch-control system for electric motors. No. 992,217; May 16; Sp. p. 2934; Gaz. vol. 166; p. 545.

Lehrer, Anton, Auburndale, Wis. Signaling device for automobiles or like vehicles. No. 998,356; July 18; Sp. p. 3841; Gaz. vol. 168; p. 682.

Lehrmann, Frederick, Turtle Creek, Pa. Sifter. No. 1,011,822; Dec. 12; Sp. p. 3191; Gaz. vol. 173; p. 533.

Leibbrand, Carl, assignor to Kollmar & Jourdan A. G. Uhrkettenfabrik, Pforzheim, Germany. Production of multiple-link or cable chains. No. 1,011,973; Dec. 19; Sp. p. 3549; Gaz. vol. 173; p. 620.

Leibe, Hugo, Hamilton, Md. Harness-pad. No. 1,006,960; Oct. 24; Sp. p. 5291; Gaz. vol. 171; p. 930.

Leich, Oscar M., assignor to Cracraft-Leich Electric Company, Genoa, Ill. Telephone system. No. 984,945; Feb. 21; Sp. p. 3635; Gaz. vol. 163; p. 641.

Leich, Oscar M., assignor to Cracraft-Leich Electric Company, Genoa, Ill. Telephone system. No. 985,186; Feb. 28; Sp. p. 4172; Gaz. vol. 163; p. 759.

Leich, Oscar M., assignor to Cracraft-Leich Electric Co., Genoa, Ill. Composite telephone and telegraph system. No. 999,505; Aug. 1; Sp. p. 613; Gaz. vol. 169; p. 106.

Leich, Oscar M., assignor, by mesne assignments, of one-third to J. G. Ihmsen and two-thirds to P. C. Burns, Chicago, Ill. Selective signaling system. No. 1,002,713; Sept. 5; Sp. p. 1184; Gaz. vol. 170; p. 177.

Leidecker, Frank W., Marietta, Ohio. Check-valve. No. 996,099; June 27; Sp. p. 4356; Gaz. vol. 167; p. 789.

Leider, Joseph. (See Lyons, Isaac L., assignor.)

Leidorf, Robert, Cleveland, Ohio. Aeroplane. No. 996,932; July 4; Sp. p. 687; Gaz. vol. 168; p. 113.

Leiendecker, Charles. (See Fawcett, Emmett E., assignor.)

Leigh, Zachariah G., Mount Hope, Ala. Vehicle mud-cleaner. No. 983,502; Feb. 7; Sp. p. 528; Gaz. vol. 163; p. 84.

Leighton, Arthur M., Charlestown, Mass., assignor to W. C. Leighton, Machias, Me. Last. No. 1,000,419; Aug. 15; Sp. p. 2579; Gaz. vol. 169; p. 480.

Leighton, Eurie L., *et al.* (See Leighton, Willis S., assignor.)

Leighton, William C. (See Leighton, Arthur M., assignor.)

Leighton, Willis S., Biddeford, Me., assignor of one-third to E. L. Leighton and one-third to H. J. Wentworth, Lawrence, Mass. Wrench. No. 1,011,974; Dec. 19; Sp. p. 3551; Gaz. vol. 173; p. 620.

Leinen, Casper W., and H. G. Ritter, Racine, Wis. Window-fastener. No. 1,005,046; Oct. 3; Sp. p. 1039; Gaz. vol. 171; p. 174.

Leisel, Julius, Charlotte, N. C. Dyeing-machine. No. 1,010,274; Nov. 28; Sp. p. 5755; Gaz. vol. 172; p. 1028.

Leiser, Jacob J., East Seattle, Wash. Window-blind holder. No. 990,995; May 2; Sp. p. 350; Gaz. vol. 166; p. 60.

Leisinger, Jacob, assignor of one-half to C. H. Austin, Pittsburg, Pa. Testing-plug. No. 987,145; Mar. 21; Sp. p. 2894; Gaz. vol. 164; p. 531.

Leistner, Paul G., St. Charles, Mo. Hot-water bottle. No. 1,011,452; Dec. 12; Sp. p. 2356; Gaz. vol. 173; p. 403.

Leisure, Joseph S., and P. J. Robinson, Ingleside, Nebr. Air-pressure cork. No. 1,009,980; Nov. 28; Sp. p. 5154; Gaz. vol. 172; p. 928.

Leitch, Meredith, Springfield, Mass. Valve. No. 1,012,870; Dec. 26; Sp. p. 5503; Gaz. vol. 173; p. 973.

Leitch, Meredith, assignor to American Can Company, New York, N. Y. Soldering-machine for soldering the end seams of round cans. No. 1,002,284; Sept. 5; Sp. p. 124; Gaz. vol. 170; p. 29.

Leitenberger, Carl W., Johnstown, Pa. Fuel-supply controller. No. 990,053; Apr. 18; Sp. p. 3772; Gaz. vol. 165; p. 652.

Leith, Harry D., and M. A. Cox, Stuart, Iowa. Film-reel transportation-box. No. 1,002,285; Sept. 5; Sp. p. 228; Gaz. vol. 170; p. 30.

Leith, James, assignor of one-half to H. Caya, Jr., Sherbrooke, Quebec, Canada. Switch-operating mechanism. No. 993,695; May 30; Sp. p. 6177; Gaz. vol. 166; p. 1117.

Leland, Aaron W., McClellanville, S. C. Manure-receptacle for vehicles. No. 990,054; Apr. 18; Sp. p. 3774; Gaz. vol. 165; p. 653.

Leland & Company, W. H. (See Gifford, Albert J., assignor.)

Leland & Company, W. H. (See Gifford, Burns, and Bishop, assignors.)

Leland, Herbert J., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Power-hacksaw. No. 989,164; Apr. 11; Sp. p. 1836; Gaz. vol. 165; p. 318.

Leland, John A., Montague, assignor to Millers Falls Company, Millers Falls, Mass. Change-speed gearing. No. 988,723; Apr. 4; Sp. p. 938; Gaz. vol. 165; p. 149.

Leland, John A., Montague, assignor to Millers Falls Co., Millers Falls, Mass. Adjustable handle for saw-frames, &c. No. 992,218; May 16; Sp. p. 2936; Gaz. vol. 166; p. 546.

Leluau, Charles, *et al.* (See Lord, Peter, assignor.)

Lemac Carriers Company. (See Ryan, William M., assignor.)

Lemaignen, Robert B. A., Rouen, France. Zeroizing mechanism. No. 997,068; July 4; Sp. p. 1006; Gaz. vol. 168; p. 161.

Lemaire, Napoleon, Taunton, Mass. Picker-strap. No. 984,821; Feb. 21; Sp. p. 3405; Gaz. vol. 163; p. 600.

Lemann, Franz, Posen, Germany. Alarm device for lubricators. No. 1,010,058; Nov. 28; Sp. p. 5332; Gaz. vol. 172; p. 956.

Lemarchand, Maurice and R., and V. Montet, Rouen, France. Shuttle for weaving-looms. No. 1,008,832; Nov. 14; Sp. p. 2706; Gaz. vol. 172; p. 455.

Lemarchand, Raymond. (See Lemarchand and Montet.)
Lemay, Flory W., assignor of one-half to C. Peront, Lawrence, Mass. Display-rack. No. 997,925; July 11; Sp. p. 2838; Gaz. vol. 168; p. 485.
Lemberg, Jacob A., Berlin, Germany. Apparatus for deodorizing the exhaust-gases of internal-combustion engines. No. 991,861; May 9; Sp. p. 2205; Gaz. vol. 166; p. 394.
Lembke, Theodore, Buffalo, N. Y. Oil-burning heating apparatus. No. 990,755; Apr. 25; Sp. p. 5365; Gaz. vol. 165; p. 925.
Lemelin, George T., Springfield, Mass. Gummer. No. 996,988; July 4; Sp. p. 831; Gaz. vol. 168; p. 134.
Lemêtre, Auguste A., Paris, France. Electroplating with zinc. No. 1,012,665; Dec. 26; Sp. p. 5020; Gaz. vol. 173; p. 901.
Lemieux, George, Washburn, Wis. Belt-clamp. No. 993,846; May 30; Sp. p. 6487; Gaz. vol. 166; p. 1168.
Lemley, David. (See Riess and Lemley.)
Lemmon, Christopher T. (See Kellam, David S., assignor.)
Lemmon, Rees H. (See Alexander and Lemmon.)
Lemon, Charles S., Los Angeles, Cal. Adjustable sawing apparatus. No. 993,606; May 30; Sp. p. 5958; Gaz. vol. 166; p. 1085.
Lemon, Charles S., Los Angeles, Cal. Adjustable cutting apparatus. No. 993,607; May 30; Sp. p. 5959; Gaz. vol. 166; p. 1085.
Lemons, William D., assignor of one-half to W. D. and T. J. Babington, Shelby, N. C. Combined seed-planter and fertilizer-distributer. No. 1,004,797; Oct. 3; Sp. p. 530; Gaz. vol. 171; p. 88.
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Water-controlled fuel system. No. 980,297; Jan. 3; Sp. p. 218; Gaz. vol. 162; p. 42.
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. Fuel and water supply system for boilers. No. 994,939; June 13; Sp. p. 1868; Gaz. vol. 167; p. 328.
Lemp, Hermann, Lynn, Mass., assignor to General Electric Company. System of fuel and water supply for boilers. No. 994,940; June 13; Sp. p. 1870; Gaz. vol. 167; p. 329.
Lemp, Hermann, Lynn, Mass., assignor, by mesne assignments, to General Electric Company. Supply system for boilers. No. 1,011,213; Dec. 12; Sp. p. 1826; Gaz. vol. 173; p. 317.
Lend, John, assignor to Multi Mfg. Co., Chicago, Ill. Shock-absorber. No. 990,756; Apr. 25; Sp. p. 5367; Gaz. vol. 165; p. 926.
Lenderman, Lonnie M., Ensley, Ala. Grapple. No. 1,008,724; Nov. 14; Sp. p. 2486; Gaz. vol. 172; p. 418.
Lenderoth, Arnold W. (See Fox and Lenderoth.)
Lenderoth, Arnold W., Stapleton, N. Y. Combined throttle and automatic stop-valve. No. 997,681; July 11; Sp. p. 2259; Gaz. vol. 168; p. 400.
Lengemann, Paul, Bremen, Germany. Shoe for flat-footed persons. No. 996,989; July 4; Sp. p. 834; Gaz. vol. 168; p. 134.
Lenhart Mfg. Co. (See Lenhart, William K., assignor.)
Lenhart, Philip F., Brooklyn, assignor to H. O. Loewi, New York, N. Y. Cork composition and making the same. No. 1,008,972; Nov. 14; Sp. p. 2996; Gaz. vol. 172; p. 500.
Lenhart, William K., Philadelphia, Pa., assignor to Lenhart Mfg. Co., Inc. Lamp or illuminator. No. 1,003,762; Sept. 19; Sp. p. 3434; Gaz. vol. 170; p. 613.
Lennon, Watson S., Tucson, Ariz. Car-coupling. No. 984,946; Feb. 21; Sp. p. 3638; Gaz. vol. 163; p. 642.
Lennox, David, assignor to Lennox Machine Company, Marshalltown, Iowa. Rotary metal-shearing machine. No. 984,575; Feb. 21; Sp. p. 2878; Gaz. vol. 163; p. 513.
Lennox Machine Company. (See Lennox, David, assignor.)
Lent, Alfred H. (See Donahoo, Peter B., assignor.)
Lent, Alvah F., assignor to C. F. Paulus, Newark, N. J. Cap-exploding device. No. 1,002,811; Sept. 5; Sp. p. 1387; Gaz. vol. 170; p. 211.
Lent, Leon B., Brewster, N. Y. Automobile fire-engine. No. 1,010,158; Nov. 28; Sp. p. 5526; Gaz. vol. 172; p. 989.
Lentsch, Alois, Mülhausen, Germany. Device for guiding and stripping thread on winding-frames. No. 989,165; Apr. 11; Sp. p. 1840; Gaz. vol. 165; p. 319.
Lentschat, Georg, Schmargendorf, Berlin, assignor to Favorit-Brenner-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Inverted incandescent gas-lamp. No. 1,010,275; Nov. 28; Sp. p. 5764; Gaz. vol. 172; p. 1028.
Lentz, Charles T. (See Eber and Lentz.)
Lentz, David H., Chicago, Ill. Balling scrap metal. No. 1,012,871; Dec. 26; Sp. p. 5507; Gaz. vol. 173; p. 973.
Lentz, David H., Chicago, Ill. Apparatus for balling scrap metal. No. 1,012,872; Dec. 26; Sp. p. 5515; Gaz. vol. 173; p. 974.
Lentz, David H., assignor to Sellers Manufacturing Company, Chicago, Ill. Composite rolls for forming tie-plates. No. 983,379; Feb. 7; Sp. p. 261; Gaz. vol. 163; p. 44.
Lentz, David H., assignor to Sellers Manufacturing Company, Chicago, Ill. Composite roll for rolling metal. No. 983,828; Feb. 7; Sp. p. 1232; Gaz. vol. 163; p. 196.
Lentz, David H., assignor to Sellers Manufacturing Company, Chicago, Ill. Rolling tie-plates and the like. No. 986,071; Mar. 7; Sp. p. 674; Gaz. vol. 164; p. 108.
Lentz, Hugo, Mannheim, Germany. Valve arrangement for fluid-transmission gears. No. 986,834; Mar. 14; Sp. p. 2289; Gaz. vol. 164; p. 397.
Lentz, Hugo, Halensee, near Berlin, Germany. Nozzle-casing for steam-turbines. No. 1,000,928; Aug. 15; Sp. p. 3677; Gaz. vol. 169; p. 660.
Lentz, I. M. (See Ward, Columbus, L., assignor.)
Lentz, Wilhelm, Frankenthal, Germany. Valve for water-taps. No. 988,943; Apr. 4; Sp. p. 1368; Gaz. vol. 165; p. 219.
Lenz, Joseph C. C., Hoboken, N. J. Pocket-lamp. No. 987,247; Mar. 21; Sp. p. 3143; Gaz. vol. 164; p. 569.
Leo, Richard L., New York, N. Y. Bath-closet. No. 1,003,763; Sept. 19; Sp. p. 3435; Gaz. vol. 170; p. 613.
Leominster Machine Supply Company, The. (See Miller, George C., assignor.)
Leon, Creed, Nacogdoches, Tex. Track-laying apparatus. No. 1,006,488; Oct. 24; Sp. p. 4256; Gaz. vol. 171; p. 764.
Leon, Kalman, Washington, D. C. Flying-machine. No. 999,170; July 25; Sp. p. 5595; Gaz. vol. 168; p. 995.
Leon, Moses. (See Gilmore, Howard J., assignor.)
Leonard, Arthur G. (See Holmberg, Per, assignor.)
Leonard, Charles D., Rochester, N. Y. Smoke-consumer. No. 983,503; Feb. 7; Sp. p. 529; Gaz. vol. 163; p. 84.
Leonard, Charles L., *et al.* (See Dupré, Wilfred, assignor.)
Leonard, David, St. Louis, Mich. Tile-machine. No. 1,007,214; Oct. 31; Sp. p. 5878; Gaz. vol. 171; p. 1073.
Leonard, Elof R., Woodcliff, N. J. Fireproof door. No. 998,620; July 25; Sp. p. 4395; Gaz. vol. 168; p. 805.
Leonard, Elof R., Woodcliff, N. J. Sash-governing appliance. No. 1,008,041; Nov. 7; Sp. p. 851; Gaz. vol. 172; p. 136.
Leonard, Frederick S., and J. G. Du Mond, Winwood, Pa. Car-replacer. No. 1,007,580; Oct. 31; Sp. p. 6666; Gaz. vol. 171; p. 1201.
Leonard, Harry C., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerator-lining. No. 1,010,649; Dec. 5; Sp. p. 552; Gaz. vol. 173; p. 88.
Leonard, Harry M., Rantoul, Ill. Casket-mattress. No. 988,117; Mar. 28; Sp. p. 5039; Gaz. vol. 164; p. 894.
Leonard, Harry W., Bronxville, N. Y. Electric-motor-controlling apparatus. No. 981,579; Jan. 10; Sp. p. 3154; Gaz. vol. 162; p. 514.
Leonard, Harry W., Bronxville, N. Y. Electric-motor-controlling apparatus. No. 984,511; Feb. 14; Sp. p. 2713; Gaz. vol. 163; p. 455.
Leonard, Harry W., Bronxville, N. Y. Electrical controlling means. No. 1,003,924; Sept. 19; Sp. p. 3755; Gaz. vol. 170; p. 667.
Leonard, Harry W., Bronxville, N. Y. Method and means for control of electric energy. No. 1,003,925; Sept. 19; Sp. p. 3765; Gaz. vol. 170; p. 667.
Leonard, Harry W., Bronxville, N. Y. Method and means for controlling electric motors. No. 1,003,926; Sept. 19; Sp. p. 3779; Gaz. vol. 170; p. 668.
Leonard, Harry W., Bronxville, N. Y. Multiple control system. No. 1,003,927; Sept. 19; Sp. p. 3793; Gaz. vol. 170; p. 668.
Leonard, Harry W., New York, N. Y. Multiple control. No. 1,003,923; Sept. 19; Sp. p. 3741; Gaz. vol. 170; p. 667.
Leonard, John D., Kenneth, Mich. Mail-bag catcher. No. 986,298; Mar. 7; Sp. p. 1120; Gaz. vol. 164; p. 181.
Leonard, John T., Woodcliff, N. J. Metal window-sash. No. 998,621; July 25; Sp. p. 4396; Gaz. vol. 168; p. 805.
Leonard, John T., Woodcliff, N. J. Metal window-frame. No. 1,008,042; Nov. 7; Sp. p. 852; Gaz. vol. 172; p. 136.
Leonhardt, Ernst, Bärwinkel, near Neuhardenberg, assignor to Gebr. Heyl & Co. Aktien-Gesellschaft, Charlottenburg, near Berlin, Germany. Making a disinfectant. No. 1,001,964; Aug. 29; Sp. p. 5934; Gaz. vol. 169; p. 1075.
Leonhardt, Frederick, Sheboygan, Wis. Liquid-gage. No. 1,006,105; Oct. 17; Sp. p. 3356; Gaz. vol. 171; p. 599.
Leonhardt, Frederick, Sheboygan, assignor to C. S. Hayden, West Bend, Wis. Sight-feed tube for water-gages, lubricators, or the like. No. 998,104; July 18; Sp. p. 3276; Gaz. vol. 168; p. 590.
Leoni, Alphonse M., Highland, assignor to Agricultural Machines Improvement Co., New York, N. Y. Variable-horse-power gas-engine. No. 983,150; Jan. 31; Sp. p. 6503; Gaz. vol. 162; p. 1131.
Leoni, Alphonse M., assignor to The Agricultural Machines Improvement Company, New York, N. Y. Safety transmission device. No. 990,757; Apr. 25; Sp. p. 5368; Gaz. vol. 165; p. 926.
Leopold, Frederick B., Sewickley, Pa. Nozzle. No. 980,538; Jan. 3; Sp. p. 789; Gaz. vol. 162; p. 126.
Leopold, Frederick B., Sewickley, Pa. Sluice-gate. No. 983,297; Feb. 7; Sp. p. 83; Gaz. vol. 163; p. 16.
Leopold, Frederick B., Sewickley, Pa. Trough for filters. No. 983,298; Feb. 7; Sp. p. 84; Gaz. vol. 163; p. 16.
Leopold, Frederick B., Sewickley, Pa. Controller for filters. No. 992,888; May 23; Sp. p. 4413; Gaz. vol. 166; p. 810.
Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Ratchet mechanism. No. 982,510; Jan. 24; Sp. p. 5158; Gaz. vol. 162; p. 889.

Alphabetical list of patentees—Continued.

Leopold, George O., assignor to North Bro's M'f'g Co., Philadelphia, Pa. Screw-driver. No. 1,008,164; Nov. 7; Sp. p. 1096; Gaz. vol. 172; p. 179.
Leopold, Joseph, South Bethlehem, Pa. Elevator safety device. No. 998,357; July 18; Sp. p. 3842; Gaz. vol. 168; p. 682.
Leopold, Joseph, South Bethlehem, Pa. Lantern-slide-moving device. No. 1,001,965; Aug. 29; Sp. p. 5935; Gaz. vol. 169; p. 1075.
Leopold, Richard. (See Schirmacher and Leopold.)
Leopoldt, Edward A., Cincinnati, Ohio. Electric sign. No. 983,558; Feb. 7; Sp. p. 668; Gaz. vol. 163; p. 103.
Lepine, Euclide E., Joliette, Quebec, Canada. Lime-hydrating machine. No. 982,148; Jan. 17; Sp. p. 4377; Gaz. vol. 162; p. 732.
Leppert, Henry E., New Britain, assignor to The Hart Manufacturing Company, Hartford, Conn. Switch. No. 999,808; Aug. 8; Sp. p. 1216; Gaz. vol. 169; p. 238.
Lepre, Arcangelo, Pittsburg, Pa. Watchmaker's appliance. No. 989,714; Apr. 18; Sp. p. 3046; Gaz. vol. 165; p. 536.
Lernet, Alexander, Vienna, Austria-Hungary. Floating mine. No. 995,794; June 20; Sp. p. 3727; Gaz. vol. 167; p. 649.
Leroux, George J., Toledo, Ohio. Mold-conveyer for foundries. No. 1,005,986; Oct. 17; Sp. p. 3112; Gaz. vol. 171; p. 559.
Lertourné, Eugène L. A., Rouen, France. Method and means of producing synchronism between the rotation of a controlling-machine and the rotation of one or more electrically-driven machines. No. 988,792; Apr. 4; Sp. p. 1075; Gaz. vol. 165; p. 172.
Lescardé, Ternand, Paris, France. Preserving eggs. No. 1,011,352; Dec. 12; Sp. p. 2163; Gaz. vol. 173; p. 368.
Lesley, Hugh, Philadelphia, Pa. Storage-battery tank. No. 984,095; Feb. 14; Sp. p. 1839; Gaz. vol. 163; p. 316.
Lesley, Robert W., Haverford, and H. S. Spackman, Ardmore, Pa. Cement-treating process. No. 988,724; Apr. 4; Sp. p. 940; Gaz. vol. 165; p. 149.
Leslie, James C., Dundee, Scotland. Spindle of spinning and roving machines. No 993,080; May 23; Sp. p. 4831; Gaz. vol. 166; p. 877.
Leslie, M. G., *et al.* (See Ziringer, Roscoe C., assignor.)
Leslie Manufacturing Company. (See Winn, Richard T., assignor.)
Lesoine, Leonard L., East Stroudsburg, Pa. Emergency-brake for automobiles. No. 994,263; June 6; Sp. p. 331; Gaz. vol. 167; p. 57.
Lessard, Elmer E., Heber, Ark. Flying-machine. No. 989,616; Apr. 18; Sp. p. 2844; Gaz. vol. 165; p. 503.
Lesser, Rudolf, Berlin, assignor to Farbwerke vorm. Meister, Lucius & Brüning, Höchst-on-the-Main, Germany. Dyeing with benzoquinone derivatives. No. 1,009,981; Nov. 28; Sp. p. 5156; Gaz. vol. 172; p. 928.
Lessing, Wilhelm, Troisdorf, Germany. Manufacture of cement from furnace-slag. No. 998,358; July 18; Sp. p. 3844; Gaz. vol. 168; p. 683.
Lester, Daniel M., assignor to Lester & Wasley, Norwich, Conn. Envelop-machine. No. 980,539; Jan. 3; Sp. p. 791; Gaz. vol. 162; p. 127.
Lester, Harry B., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Vehicle-brake. No. 989,617; Apr. 18; Sp. p. 2847; Gaz. vol. 165; p. 503.
Lester, Harry B., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Coaster-brake. No. 993,385; May 30; Sp. p. 5478; Gaz. vol. 166; p. 1009.
Lester, Joseph H., Eccles, and E. C. Mills, Manchester, England. Steam-boiler. No. 989,270; Apr. 11; Sp. p. 2068; Gaz. vol. 165; p. 353.
Lester & Wasley. (See Lester, Daniel M., assignor.)
Lestrade, Philip. (See Davis and Lestrade.)
Letcher, Clarence H., San Jose, Cal. Pneumatic jack. No. 1,010,927; Dec. 5; Sp. p. 1175; Gaz. vol. 173; p. 184.
Letherman, George C., Arcadia, Nebr. Cultivator. No. 1,010,276; Nov. 28; Sp. p. 5766; Gaz. vol. 172; p. 1029.
Letson, Frank I. (See Wilhite and Letson.)
Lett, Royal A. (See White and Lett.)
Leu, John, Montreal, Quebec, Canada. Hat-pin shield. No. 999,171; July 25; Sp. p. 5598; Gaz. vol. 168; p. 996.
Leu, John J. (See Pujol, Frank, assignor.)
Leuchsenring, Konrad. (See Ott and Leuchsenring.)
Leuchter, August, Brooklyn, N. Y. Electrolytic production of printing-plates and the like. No. 1,003,187; Sept. 12; Sp. p. 2207; Gaz. vol. 170; p. 380.
Leuthesser, Fred W., Chicago, Ill. Name-register. No. 994,848; June 13; Sp. p. 1658; Gaz. vol. 167; p. 297.
Leuthesser, Fred W., Chicago, Ill. Air-valve. No. 1,008,279; Nov. 7; Sp. p. 1364; Gaz. vol. 172; p. 223.
Levalley, Christopher W., Milwaukee, Wis. Skid. No. 984,379; Feb. 14; Sp. p. 2439; Gaz. vol. 163; p. 412.
Levalley, Christopher W., Milwaukee, Wis. Shaft-hanger. No. 990,571; Apr. 25; Sp. p. 4951; Gaz. vol. 165; p. 864.
Levalley, Christopher W., Milwaukee, Wis. Nut-lock. No. 1,009,909; Nov. 28; Sp. p. 5011; Gaz. vol. 172; p. 905.
Levanger, Herman. (See Gravdahl, Ole, assignor.)
Levavasseur, Léon M. J. C., assignor to La Société "Antoinette," Puteaux, near Paris, France. Hydraulic differential driving mechanism. No. 997,069; July 4; Sp. p. 1010; Gaz. vol. 168; p. 162.
Levavasseur, Léon M. J. C., assignor to La Société Antoinette, Puteaux, France. Device for producing the helicoidal deformation of the planes of aeroplanes. No. 1,006,106; Oct. 17; Sp. p. 3357; Gaz. vol. 171; p. 599.
Leve, Robert E., New York, N. Y. Pendant snap-switch. No. 989,618; Apr. 18; Sp. p. 2849; Gaz. vol. 165; p. 504.
Levedahl, Axel, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Motor-cycle. No. 1,012,873; Dec. 26; Sp. p. 5523; Gaz. vol. 173; p. 974.
Leveillee, Raphael, Georgiaville, R. I. Picker-check. No. 1,001,762; Aug. 29; Sp. p. 5479; Gaz. vol. 169; p. 1007.
Levenhagen, Fred, and A. H. Halder, Wausau, Wis. Ventilator for closet-bowls. No. 988,273; Mar. 28; Sp. p. 5339; Gaz. vol. 164; p. 945.
Levens, Roscoe F., and A. H. Whatley, assignors, by mesne assignments, to The American Trolley Retriever Company, Providence, R. I. Trolley-retriever. No. 981,865; Jan. 17; Sp. p. 3759; Gaz. vol. 162; p. 636.
Leveque, Bernard T., assignor to The Reece Button Hole Machine Company, Boston, Mass. Work-gage for buttonhole-sewing machines. No. 984,145; Feb. 14; Sp. p. 1925; Gaz. vol. 163; p. 331.
Lévêque, Léon. (See Henrard and Lévêque.)
Lever, Harry E., Johannesburg, Transvaal. Driving-gear for motor-vehicles. No. 992,967; May 23; Sp. p. 4597; Gaz. vol. 166; p. 838.
Levesque, Emile F., Salem, Mass. Attachment for barbers' chairs. No. 990,149; Apr. 18; Sp. p. 3964; Gaz. vol. 165; p. 684.
Levey, Charles, assignor of one-half to A. B. Bloom, Rochester, N. Y. Camera-focusing attachment. No. 1,008,418; Nov. 14; Sp. p. 1783; Gaz. vol. 172; p. 310.
Levey, John, assignor to J. Williamson, Chicago, Ill. Valve. (Reissue.) No. 13,255; June 6; Sp. p. 1291; Gaz. vol. 167; p. 211.
Levey, Thomas J., Washington, D. C., assignor to The International Cap and Sealing-Machine Company, Highlandtown, Md. Bottle-filling apparatus. No. 992,721; May 16; Sp. p. 4041; Gaz. vol. 166; p. 721.
Levey, Thomas J., Washington, D. C., assignor to The International Cap and Sealing-Machine Company. Bottle-capping machine. No. 997,142; July 4; Sp. p. 1147; Gaz. vol. 168; p. 186.
Levi, Giorgio, Rome, Italy. Electrochemical production of phosphatic fertilizers. No. 984,769; Feb. 21; Sp. p. 3308; Gaz. vol. 163; p. 583.
Levi, Harold, assignor of one-half to L. F. Brenner, London, England. Ear-ring. No. 1,008,419; Nov. 14; Sp. p. 1784; Gaz. vol. 172; p. 310.
Levier, John M., Clarksburg, W. Va. Metallic railway-tie. No. 1,001,055; Aug. 22; Sp. p. 4016; Gaz. vol. 169; p. 739.
Levin, Arvid M., Chicago, Ill. Gas-producer. No. 1,008,833; Nov. 14; Sp. p. 2707; Gaz. vol. 172; p. 455.
Levin, Benjamin J., South Amboy, N. J. Shape-retainer for caps and hats. No. 999,322; Aug. 1; Sp. p. 244; Gaz. vol. 169; p. 45.
Levin, Edward, New York, N. Y. Garment-form. No. 998,187; July 18; Sp. p. 3436; Gaz. vol. 168; p. 619.
Levin, Edward, New York, N. Y. Garment-form. No. 998,188; July 18; Sp. p. 3438; Gaz. vol. 168; p. 620.
Levin, Harris, New York, N. Y. Making cluster-mountings, and blanks for same. No. 983,504; Feb. 7; Sp. p. 531; Gaz. vol. 163; p. 85.
Levin, Max, Chicago, Ill. Tumbler-washer. No. 1,002,714; Sept. 5; Sp. p. 1195; Gaz. vol. 170; p. 178.
Levin, Samuel, Highland Park, Ill. Stylus for sound-reproducing machines. No. 1,003,474; Sept. 19; Sp. p. 2803; Gaz. vol. 170; p. 513.
Levings, William S. (See Shepard, Frederick C., assignor.)
Levings, William S., Minneapolis, Minn. Gas-lamp. No. 980,298; Jan. 3; Sp. p. 221; Gaz. vol. 162; p. 42.
Levinsohn, Eva. (See Levinsohn, Louis N., assignor.)
Levinsohn, Louis N., assignor to E. Levinsohn, New York, N. Y. Knockdown show-case. No. 983,151; Jan. 31; Sp. p. 6508; Gaz. vol. 162; p. 1131.
Levis, John A., *et al.* (See Mason, Arthur, assignor.)
Levis, John M. (See Kimble and Levis.)
Levrant, Morris, New York, N. Y. Air-tight valve for pneumatic tires. No. 999,506; Aug. 1; Sp. p. 616; Gaz. vol. 169; p. 107.
Levy, Anatoly J., St. Petersburg, Russia. Machine for fabrication of pipes. No. 996,264; June 27; Sp. p. 4764; Gaz. vol. 167; p. 844.
Levy, Charles C., assignor of one-half to J. W. Brown, Baltimore, Md. Poultry drinking-fountain. No. 1,008,834; Nov. 14; Sp. p. 2712; Gaz. vol. 172; p. 456.
Levy, George B., *et al.* (See Brethauer, Charles J., assignor.)
Levy, Georges E., assignor to Société Levy fils, A. Bernheim & Cie., Paris, France. Weaving-loom. No. 987,086; Mar. 14; Sp. p. 2768; Gaz. vol. 164; p. 479.
Levy, Henry B., New York, N. Y. Fountain-pen. No. 991,520; May 9; Sp. p. 1480; Gaz. vol. 166; p. 277.
Levy, James B., Ursina, Pa. Safety trace-holder. No. 982,835; Jan. 31; Sp. p. 5832; Gaz. vol. 162; p. 1026.
Levy, Joseph B., Philadelphia, Pa. Solution-drain for plate-holders of cameras. No. 1,003,475; Sept. 19; Sp. p. 2805; Gaz. vol. 170; p. 513.

Alphabetical list of patentees—Continued.

Levy, Joseph L., New York, N. Y. Closure for boxes, cans, and the like. No. 1,002,531; Sept. 5; Sp. p. 780; Gaz. vol. 170; p. 114.
Levy, Max. (See Ciolfi, Antonino, assignor.)
Levy, Nathan D. (See Schlesinger, Louis, assignor.)
Levy, William I. (See Moore, Robert A., assignor.)
Lewallen, Edward D., Huckabay, Tex. Hay-rake. No. 992,889; May 23; Sp. p. 4415; Gaz. vol. 166; p. 810.
Lewellen, Candy, Crawfordsville, Ind. Elevated cable-railway. No. 993,259; May 23; Sp. p. 5201; Gaz. vol. 166; p. 933.
Lewen, Henry L., New York, N. Y. Reinforced concrete construction. No. 986,474; Mar. 14; Sp. p. 1521; Gaz. vol. 164; p. 273.
Lewen, Henry L., San Francisco, Cal. Reinforced concrete construction. No. 995,069; June 13; Sp. p. 2150; Gaz. vol. 167; p. 373.
Lewin, Irving, assignor to United Ribbon Company, New York, N. Y. Necktie. No. 1,004,444; Sept. 26; Sp. p. 4964; Gaz. vol. 170; p. 873.
Lewin, Walter, Coalinga, Cal. Casing-tongs. No. 1,008,654; Nov. 14; Sp. p. 2334; Gaz. vol. 172; p. 394.
Lewin, Walter W., Dearing, Kans. Self-heating sad-iron. No. 981,204; Jan. 10; Sp. p. 2338; Gaz. vol. 162; p. 385.
Lewine, Harry A. (See Chase and Lewine.)
Lewis, Arthur J., Watertown, assignor to The Baird Machine Company, Oakville, Conn. Metal-forming machine. No. 992,890; May 23; Sp. p. 4417; Gaz. vol. 166; p. 811.
Lewis, Charles, *et al.* (See Miller, Rudolph A., assignor.)
Lewis, Charles A., Denver, Colo. Mechanical toy. No. 985,746; Feb. 28; Sp. p. 5418; Gaz. vol. 163; p. 950.
Lewis, Charles A., Denver, Colo. Weldless-link-chain-making machine. No. 990,996; May 2; Sp. p. 352; Gaz. vol. 166; p. 61.
Lewis, Charles A., Denver, Colo. Machine for making weldless-link chains. No. 997,305; July 11; Sp. p. 1492; Gaz. vol. 168; p. 273.
Lewis, Charles F., New York, N. Y. Electric-circuit closer. No. 996,990; July 4; Sp. p. 835; Gaz. vol. 168; p. 134.
Lewis, Clifford A., Portland, Oreg., assignor of one-half to M. E. Hill, Salida, Colo. Light attachment for firearms. No. 982,280; Jan. 24; Sp. p. 4674; Gaz. vol. 162; p. 808.
Lewis, Edward D., Elmira, N. Y. Means for driving rotary engines. No. 996,593; June 27; Sp. p. 5468; Gaz. vol. 167; p. 956.
Lewis, Edward D., Elmira, N. Y. Combined muffler and air-heater. No. 1,003,620; Sept. 19; Sp. p. 3129; Gaz. vol. 170; p. 564.
Lewis, Edward W., G. W. Wright, and G. Francis, Los Angeles, Cal. Folding car-steps. No. 996,594; June 27; Sp. p. 5470; Gaz. vol. 167; p. 957.
Lewis, Edward Z., Chicago, Ill. Attachment for typewriters. No. 1,007,581; Oct. 31; Sp. p. 6667; Gaz. vol. 171; p. 1201.
Lewis, Ellis S. G., Wiggins, Miss. Shears. No. 981,436; Jan. 10; Sp. p. 2892; Gaz. vol. 162; p. 467.
Lewis, Frank, Portland, Oreg. Egg-separator. No. 990,758; Apr. 25; Sp. p. 5372; Gaz. vol. 165; p. 927.
Lewis, Frank D. (See Dyer and Lewis.)
Lewis, Frank E., Kansas City, Mo. Cabinet. No. 988,793; Apr. 4; Sp. p. 1081; Gaz. vol. 165; p. 172.
Lewis, Frank J., Buffalo, N. Y. Padlock. No. 1,005,852; Oct. 17; Sp. p. 2812; Gaz. vol. 171; p. 512.
Lewis, Frank M. (See Graham, George H., assignor.)
Lewis, Frank R., Reno, Nev. Revolver-holster. No. 981,292; Jan. 10; Sp. p. 2561; Gaz. vol. 162; p. 417.
Lewis, G. H., *et al.*, trustees. (See Schnuerer, Louis, assignor.)
Lewis, George, Brooklyn, N. Y. Rotary power-muffler. No. 997,624; July 11; Sp. p. 2143; Gaz. vol. 168; p. 380.
Lewis, George F., *et al.* (See Bell, Dillwyn, M., assignor.)
Lewis, George S., assignor to The Hunter Arms Company, Fulton, N. Y. Breech-loading gun. No. 983,559; Feb. 7; Sp. p. 671; Gaz. vol. 163; p. 103.
Lewis & Gray Company. (See Hollister, George H., assignor.)
Lewis, Harry E., Columbus, Ohio. Ironing-table. No. 995,612; June 20; Sp. p. 3322; Gaz. vol. 167; p. 585.
Lewis, Harry W., Bethlehem, assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway signaling system. No. 991,072; May 2; Sp. p. 508; Gaz. vol. 166; p. 88.
Lewis, Henry L. (See Hart, Josiah, assignor.)
Lewis, Isaac N., Fortress Monroe, Va., assignor to The Automatic Arms Company, Buffalo, N. Y. Firearm. No. 1,004,665; Oct. 3; Sp. p. 243; Gaz. vol. 171; p. 43.
Lewis, Isaac N., Fortress Monroe, Va., assignor to The Automatic Arms Company, Buffalo, N. Y. Air-cooled automatic firearm. No. 1,004,666; Oct. 3; Sp. p. 246; Gaz. vol. 171; p. 43.
Lewis, J. S. (See McKay, William A., assignor.)
Lewis, James C., Mansfield, Ohio. Dust-tank. No. 995,974; June 20; Sp. p. 4089; Gaz. vol. 167; p. 712.
Lewis, James N., Detroit, Mich. Multiple-tool well-drill. No. 996,595; June 27; Sp. p. 5472; Gaz. vol. 167; p. 957.
Lewis, James S., McKeesport, assignor to H. R. Gault and E. G. Procious, trustees, Kittanning, Pa. Apparatus for rolling tapered tubes. No. 989,508; Apr. 11; Sp. p. 2562; Gaz. vol. 165; p. 434.
Lewis, Jessie E. (See Shipley, Lewis, and George.)
Lewis, John F., Philadelphia, Pa. Automatic grease-cup. No. 1,003,276; Sept. 12; Sp. p. 2401; Gaz. vol. 170; p. 413.
Lewis, John H., Rhinelander, Wis. Ice-freezing tank. No. 986,835; Mar. 14; Sp. p. 2291; Gaz. vol. 164; p. 397.
Lewis, John H., and L. G. Kunzer, Chicago, Ill. Metallic packing for piston-rods. No. 1,008,655; Nov. 14; Sp. p. 2336; Gaz. vol. 172; p. 394.
Lewis, John W., San Francisco, Cal. Parasol and umbrella cover. No. 1,006,240; Oct. 17; Sp. p. 3696; Gaz. vol. 171; p. 650.
Lewis, Joseph M., Trenton, N. J. Vise. No. 993,181; May 23; Sp. p. 5038; Gaz. vol. 166; p. 910.
Lewis, Leo L., Montpelier, Idaho. Pelt-stretching frame. No. 1,006,855; Oct. 24; Sp. p. 5073; Gaz. vol. 171; p. 894.
Lewis, Leonard C., Chicago, Ill. Corner bed-spring. No. 986,836; Mar. 14; Sp. p. 2292; Gaz. vol. 164; p. 397.
Lewis, Lloyd V., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Testing apparatus. No. 1,012,209; Dec. 19; Sp. p. 4087; Gaz. vol. 173; p. 701.
Lewis, Louis B., Columbus, Ohio. Educational toy. No. 1,005,853; Oct. 17; Sp. p. 2814; Gaz. vol. 171; p. 512.
Lewis, Lyman S., assignor of one-half to H. B. Fitz Jerrell, Elkport, Iowa. Slip-share. No. 985,813; Mar. 7; Sp. p. 91; Gaz. vol. 164; p. 19.
Lewis, Marvin W., Cleveland, Ohio. Wire-cutting machine. No. 988,197; Mar. 28; Sp. p. 5184; Gaz. vol. 164; p. 919.
Lewis, Marvin W., Cleveland, Ohio. Wire-straightening machine. No. 994,941; June 13; Sp. p. 1872; Gaz. vol. 167; p. 329.
Lewis, Melville A., Kellogg, Idaho. Concrete railway-tie. No. 1,004,046; Sept. 26; Sp. p. 4104; Gaz. vol. 170; p. 738.
Lewis, Melville O., New York, N. Y. Hose-clamp-applying tool. No. 989,855; Apr. 18; Sp. p. 3357; Gaz. vol. 165; p. 585.
Lewis, Morton A., Terre Haute, Ind. Kettle-lid. No. 987,077; Mar. 14; Sp. p. 2753; Gaz. vol. 164; p. 476.
Lewis, Owen L., Lyon Mountain, N. Y. Automatic toy. No. 991,217; May 2; Sp. p. 832; Gaz. vol. 166; p. 141.
Lewis, Raymond O., Ainsworth, Nebr. Gate-fastener. No. 987,469; Mar. 21; Sp. p. 3615; Gaz. vol. 164; p. 644.
Lewis, Robert B., Greenford, Ohio. Score-indicator. No. 1,000,026; Aug. 8; Sp. p. 1672; Gaz. vol. 169; p. 314.
Lewis, Robert B., Greenford, Ohio. Kettle. (Reissue.) No. 13,296; Oct. 3; Sp. p. 1170; Gaz. vol. 171; p. 198.
Lewis, Roger D., Lloyd, Ohio. Adjustable shade and curtain bracket. No. 996,724; July 4; Sp. p. 252; Gaz. vol. 168; p. 44.
Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Making tumblers for combination-locks. No. 985,609; Feb. 28; Sp. p. 5115; Gaz. vol. 163; p. 904.
Lewis, Rollin C., Stamford, Conn., assignor to The Torsion Balance Company, New York, N. Y. Weighing-scale. No. 1,002,923; Sept. 12; Sp. p. 1677; Gaz. vol. 170; p. 289.
Lewis, Rudolph. (See Straka and Lewis.)
Lewis, Sherman T., Swissvale, Pa. Chuck. No. 1,011,975; Dec. 19; Sp. p. 3552; Gaz. vol. 173; p. 620.
Lewis, Theodore B. (See Chandler and Lewis.)
Lewis, Theodore G., assignor to The Buffalo Dental Manufacturing Company, Buffalo, N. Y Vulcanizer. No. 988,361; Apr. 4; Sp. p. 148; Gaz. vol. 165; p. 26.
Lewis, Theodore H., Vancouver, British Columbia, Canada. Rotary engine. No. 1,010,650; Dec. 5; Sp. p. 553; Gaz. vol. 173; p. 88.
Lewis, Tobias, Dayton, Ohio. Planter. No. 996,265; June 27; Sp. p. 4765; Gaz. vol. 167; p. 845.
Lewis, Willard I., Walpole, assignor to H. M. Plimpton, Norwood, Mass. Stitching mechanism for signature-gathering machines. No. 985,264; Feb. 28; Sp. p. 4345; Gaz. vol. 163; p. 785.
Lewis, William A., Ashtabula, Ohio. Music-leaf turner. No. 1,012,377; Dec. 19; Sp. p. 4430; Gaz. vol. 173; p. 758.
Lewis, William K., Platteville, assignor of one-fourth to D. T. Blevins, Windsor, Colo. Beet-harvester. No. 998,296; July 18; Sp. p. 3706; Gaz. vol. 168; p. 661.
Lewis, William M., New Hartford, Iowa. Potato-bug catcher. No. 999,172; July 25; Sp. p. 5599; Gaz. vol. 168; p. 996.
Lewis, Wilson, Onvil, La. Vehicle-step. No. 991,625; May 9; Sp. p. 1715; Gaz. vol. 166; p. 315.
Lewitz, Friedrich, Pittsburg, Pa. Tobacco can and receptacle. No. 981,293; Jan. 10; Sp. p. 2562; Gaz. vol. 162; p. 417.
Lewkowicz, Anthony J., New York, N. Y., assignor to The Martin Marine Life Saving Devices, Limited, Toronto, Canada. Boat launching and stowing apparatus. No. 1,009,758; Nov. 28; Sp. p. 4714; Gaz. vol. 172; p. 854.
Lewry, Richard D. (See Melloch and Lewry.)

Alphabetical list of patentees—Continued.

Ley, Edward M. (See Ley, Henry P., E. M., F. A., and L. W.)
Ley, Frank A. (See Ley, Henry P., E. M., F. A., and L. W.)
Ley, George A., South Bend, Ind. Photographic-printing machine. No. 984,096; Feb. 14; Sp. p. 1839; Gaz. vol. 163; p. 316.
Ley, Henry P., E. M., F. A., and L. W., Jacksonville, Ohio. Extension-pipe. No. 982,836; Jan. 31; Sp. p. 5833; Gaz. vol. 162; p. 1027.
Ley, Lawrence W. (See Ley, Henry P., E. M., F. A., and L. W.)
Leyens, Walter S., Monroe, La. Ice-bag. No. 995,407; June 13; Sp. p. 2849; Gaz. vol. 167; p. 484.
Leyner, John G., Denver, and S. A. Knowles, Golden, assignors of three-fourths to The J. George Leyner Engineering Works Company, Denver, Colo. Mucker for removing ore, rock, dirt, and other material from tunnels. No. 1,000,336; Aug. 8; Sp. p. 2357; Gaz. vol. 169; p. 417.
Leyner, John G., Denver, and S. A. Knowles, Golden, assignors of three-fourths to The J. George Leyner Engineering Works Company, Denver, Colo. Oscillating-shovel muck-remover for tunnels. No. 1,000,337; Aug. 8; Sp. p. 2362; Gaz. vol. 169; p. 418.
Leyson, Sackville G., Syracuse, N. Y. Surgical appliance. No. 992,013; May 9; Sp. p. 2503; Gaz. vol. 166; p. 445.
Lezzine, John, San Anselmo, Cal. Hinge. No. 984,380; Feb. 14; Sp. p. 2440; Gaz. vol. 163; p. 413.
Liaci, Cosmo, and A. Giammattei, New Haven, Conn. Means for converting motion. No. 982,077; Jan. 17; Sp. p. 4255; Gaz. vol. 162; p. 709.
Libbe, John H. W., Toledo, Ohio. Excavating-machine. No. 994,942; June 13; Sp. p. 1874; Gaz. vol. 167; p. 330.
Libby, Albion D. T., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 1,003,476; Sept. 19; Sp. p. 2806; Gaz. vol. 170; p. 513.
Libby, Albion D. T., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 1,007,036; Oct. 24; Sp. p. 5447; Gaz. vol. 171; p. 955.
Libby, Charles F. (See Donnelly, John R., assignor.)
Libby, Charles F. (See Fellows, Jerome B., assignor.)
Libby, Frank O. (See Guernsey, Charles C., assignor.)
Libby, George H. (See Murray, Walter D., assignor.)
Liberman, Morris, New York, N. Y. Shoe. No. 994,849; June 13; Sp. p. 1660; Gaz. vol. 167; p. 298.
Libert, Arthur. (See Hoslet and Libert.)
Liberty Cow Milker Company. (See Umrath, Theodore, assignor.)
Libke, Christian W., Drake, N. D. Railway-tie. No. 1,001,763; Aug. 29; Sp. p. 5480; Gaz. vol. 169; p. 1007.
Libner, Nels N., Lund, S. D. Planter. No. 986,018; Mar. 7; Sp. p. 566; Gaz. vol. 164; p. 90.
Library Bureau. (See Hunter, David E., assignor.)
Lichetti, James, Philadelphia, Pa. Washing-machine. No. 980,299; Jan. 3; Sp. p. 224; Gaz. vol. 162; p. 43.
Lichteiker, Hermann, Dusseldorf, Germany. Forging-machine. No. 998,854; July 25; Sp. p. 4936; Gaz. vol. 168; p. 888.
Lichtenstein, Edmund, Berlin, Germany. Copying-machine. No. 996,418; June 27; Sp. p. 5134; Gaz. vol. 167; p. 899.
Lichtenstein, Solomon M. (See English, Boukofsky, and Lichtenstein.)
Lichtenstine, Albert, assignor of one-half to W. E. Russell, East Liverpool, Ohio. Dresser and bureau. No. 1,008,835; Nov. 14; Sp. p. 2713; Gaz. vol. 172; p. 456.
Lichtig, Bernard, and P. P. Adolph, New York, N. Y.; said Lichtig assignor to said Adolph. Match-box. No. 998,702; July 25; Sp. p. 4576; Gaz. vol. 168; p. 834.
Lichtinger, Lawrence. (See Bolli and Lichtinger.)
Lichtl, Johann, Vienna, Austria-Hungary. Lathe for producing turned, spun, or chased articles of regular or irregular form. No. 988,118; Mar. 28; Sp. p. 5040; Gaz. vol. 164; p. 894.
Lichty, Daniel A. (See Warner and Lichty.)
Lidback, John A., Portland, Me. Sausage-linking machine. No. 1,004,580; Oct. 3; Sp. p. 61; Gaz. vol. 171; p. 13.
Liddell, Robert, Tecumseh, Nebr. Oil-burner. No. 990,150; Apr. 18; Sp. p. 3965; Gaz. vol. 165; p. 684.
Liddell, Robert, Tecumseh, Nebr. Ice-cream freezer. No. 995,975; June 20; Sp. p. 4090; Gaz. vol. 167; p. 712.
Liddell, Thomas W., Cadott, Wis. Quack-grass and potato digger. No. 1,000,826; Aug. 15; Sp. p. 3464; Gaz. vol. 169; p. 624.
Lidgerwood Manufacturing Company. (See Schoen, Frederick C., assignor.)
Lidgerwood Manufacturing Company. (See Wachter, Charles L., assignor.)
Lidholm, Algot P., Hibbing, Minn. Level. No. 999,573; Aug. 1; Sp. p. 754; Gaz. vol. 169; p. 130.
Lidseen, Gustave, Chicago, Ill. Attaching clamp or bond. No. 988,001; Mar. 28; Sp. p. 4799; Gaz. vol. 164; p. 856.
Lidseen, Gustave, Chicago, Ill. Printing-press. No. 1,006,762; Oct. 24; Sp. p. 4847; Gaz. vol. 171; p. 861.
Lidy, George F., Waynesboro, Pa. Heater. No. 987,382; Mar. 21; Sp. p. 3428; Gaz. vol. 164; p. 614.
Liebeck, Harry, Philadelphia, Pa., assignor to Scott Paper Company. Machine for manufacturing toilet-paper. No. 999,375; Aug. 1; Sp. p. 366; Gaz. vol. 169; p. 64.
Lieber, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Steam-turbine. No. 995,358; June 13; Sp. p. 2745; Gaz. vol. 167; p. 468.
Lieber, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Shaft-coupling. No. 1,007,363; Oct. 31; Sp. p. 6177; Gaz. vol. 171; p. 1126.
Lieberknecht, Theodor, Hohenstein-Ernstthal, Germany. Straight hosiery-frame. No. 981,663; Jan. 17; Sp. p. 3321; Gaz. vol. 162; p. 564.
Liebknecht, Otto, Frankfort-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Co., New York, N. Y. Stable hydrogen peroxid. No. 1,002,854; Sept. 12; Sp. p. 1492; Gaz. vol. 170; p. 264.
Liebmann, Emil, Offenbach-on-the-Main, Germany. Stiffening the toes and heels of footwear. No. 986,475; Mar. 14; Sp. p. 1523; Gaz. vol. 164; p. 274.
Lienesch, Walter H. (See Aschauer and Lienesch.)
Lietz, Charles. (See Udstad, George S., assignor.)
Lietzenmayer, William J., Webster, N. Y., assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Circuit-breaker. No. 1,002,855; Sept. 12; Sp. p. 1493; Gaz. vol. 170; p. 264.
Lieurance, Josephine P. (See Magoon, Edwin C., assignor.)
Ligget, Alexander, Philadelphia, Pa. Dyeing-machine. No. 992,365; May 16; Sp. p. 3321; Gaz. vol. 166; p. 598.
Light, Arthur H., Los Angeles, Cal. Oil-fed furnace. No. 980,806; Jan. 3; Sp. p. 1342; Gaz. vol. 162; p. 215.
Light, James H., Annville, Pa. Nut-lock. No. 986,837; Mar. 14; Sp. p. 2294; Gaz. vol. 164; p. 398.
Lightbody, Frank J., Watertown, assignor to Cambridge Novelty Company, Cambridge, Mass. Imitation gemmed jewelry. No. 992,014; May 9; Sp. p. 2505; Gaz. vol. 166; p. 446.
Lightbody, Frank J., assignor to Cambridge Novelty Company, Cambridge, Mass. Imitation gem. No. 1,005,564; Oct. 10; Sp. p. 2180; Gaz. vol. 171; p. 380.
Lightfoot, Harry L., and C. L. Freeman, Los Angeles, Cal. Bench-vise. No. 1,006,571; Oct. 24; Sp. p. 4462; Gaz. vol. 171; p. 796.
Lightfoot Schultz Company. (See Irwin, George M., assignor.)
Lightfoot, William E. (See Oulton, Ablett, and Lightfoot.)
Lightner, Alfred L., Saltillo, Pa. Bed attachment. No. 990,055; Apr. 18; Sp. p. 3774; Gaz. vol. 165; p. 653.
Lightning Hose-Coupling Company. (See Chapman, Charles H., assignor.) (Reissue.)
Ligno-Chemical Company. (See Chute and McElroy, assignors.)
Ligno Chemical Company. (See Ellis, Carleton, assignor.)
Likly, William C., and J. J. Cannan, assignors to Henry Likly & Co., Rochester, N. Y. Wardrobe-trunk. No. 1,011,631; Dec. 12; Sp. p. 2813; Gaz. vol. 173; p. 469.
Lilak, Frank J., Wilson, Kans. Pipe-hook. No. 996,655; July 4; Sp. p. 123; Gaz. vol. 168; p. 22.
Lilak, Frank J., Wilson, Kans. Auger-gage. No. 1,002,715; Sept. 5; Sp. p. 1197; Gaz. vol. 170; p. 178.
Lilge, Andreas, Edmonton, Alberta, Canada. Fly-vase. No. 983,977; Feb. 14; Sp. p. 1581; Gaz. vol. 163; p. 275.
Lilienfeld, Leon, Vienna, Austria-Hungary. Producing stable soluble cellulose derivatives from viscose. No. 980,648; Jan. 3; Sp. p. 1011; Gaz. vol. 162; p. 164.
Lilienthal, Henry G., San Francisco, Cal. Drink-mixing machine. No. 985,040; Feb. 21; Sp. p. 3820; Gaz. vol. 163; p. 674.
Lilja, Sten, Bayonne, N. J., assignor of one-third to J. W. H. Hamilton, St. George, Staten Island, N. Y., and one-third to N. V. Hansell, Caldwell, N. J. Reducing hematite to magnetic iron oxid. No. 1,001,536; Aug. 22; Sp. p. 4979; Gaz. vol. 169; p. 898.
Lillard, C. T., *et al.* (See Kenney, Frank, assignor.)
Lilleberg, Charles L., Chicago, Ill. Excavating-machine. No. 990,487; Apr. 25; Sp. p. 4762; Gaz. vol. 165; p. 835.
Lillegord, Grethe O. A., Round Lake, Minn. Cover for cooking vessels. No. 999,376; Aug. 1; Sp. p. 369; Gaz. vol. 169; p. 65.
Liller, George C., and F. C. Kauffman, Lancaster, Pa. Hand-vibrator. No. 1,010,928; Dec. 5; Sp. p. 1177; Gaz. vol. 173; p. 185.
Lillibridge, Curtis C., Hutchinson, Kans. Oil-gas burner. No. 1,005,987; Oct. 17; Sp. p. 3113; Gaz. vol. 171; p. 559.
Lillich, Frederick, Philadelphia, Pa. Wheel-fender. No. 1,011,214; Dec. 12; Sp. p. 1834; Gaz. vol. 173; p. 318.
Lillico, Reginald S., Seattle, Wash. Trolley-pole arrester. No. 1,010,651; Dec. 5; Sp. p. 555; Gaz. vol. 173; p. 88.
Lillie, Samuel M., Philadelphia, Pa. Multiple-effect evaporating apparatus. No. 984,226; Feb. 14; Sp. p. 2123; Gaz. vol. 163; p. 360.
Lillie, Samuel M., Philadelphia, Pa. Evaporating solutions. No. 984,822; Feb. 21; Sp. p. 3405; Gaz. vol. 163; p. 600.
Lillie, Samuel M., Philadelphia, Pa. Manufacturing salt from brines by evaporation. No. 988,002; Mar. 28; Sp. p. 4802; Gaz. vol. 164; p. 856.
Lillie, Samuel M., Philadelphia, Pa. Evaporating-tube. No. 988,477; Apr. 4; Sp. p. 401; Gaz. vol. 165; p. 65.
Lilly, William J., Butte, Mont. Throttle-valve. No. 986,184; Mar. 7; Sp. p. 895; Gaz. vol. 164; p. 145.

Alphabetical list of patentees—Continued.

Lilly, William T., Beckley, W. Va. Ditching, pipe-laying, and irrigating apparatus. No. 996,866; July 4; Sp. p. 555; Gaz. vol. 168; p. 91.
Limbert, Samuel H., assignor of one-fourth to O. C. Clarke, and one-fourth to C. L. Steele, Springfield, Ohio. Boiler-flue cleaner. No. 993,847; May 30; Sp. p. 6489; Gaz. vol. 166; p. 1169.
Limpert, Lewis T., Tampa, Fla. Switch-operating device. No. 985,814; Mar. 7; Sp. p. 92; Gaz. vol. 164; p. 19.
Linaweaver, Albert H., Findlay, Ohio. Moistening device. No. 1,008,973; Nov. 14; Sp. p. 2997; Gaz. vol. 172; p. 500.
Linblom, Lars M., Sioux City, Iowa. Super for beehives. No. 995,070; June 13; Sp. p. 2153; Gaz. vol. 167; p. 373.
Linck, George F., Houston, Tex. Vending-machine. No. 1,000,027; Aug. 8; Sp. p. 1673; Gaz. vol. 169; p. 314.
Linck, Karl, Homburg, Germany. Device for rapidly stopping compound steam-engines. No. 984,012; Feb. 14; Sp. p. 1662; Gaz. vol. 163; p. 287.
Lincoln, Benjamin M., Norton, Mass. Automatically controlling headlights for vehicles. No. 1,002,924; Sept. 12; Sp. p. 1679; Gaz. vol. 170; p. 290.
Lincoln, Carlyle A., Wayne, Me. Car-truck. No. 986,185; Mar. 7; Sp. p. 897; Gaz. vol. 164; p. 145.
Lincoln, Carlyle A., Wayne, Me. Car-truck. No. 1,003,277; Sept. 12; Sp. p. 2402; Gaz. vol. 170; p. 413.
Lincoln, Charles J., and E. E. Weil, New Orleans, La. High-tension-current protector. No. 982,281; Jan. 24; Sp. p. 4676; Gaz. vol. 162; p. 808.
Lincoln, Charles L., assignor of one half to S. H. Wheeler, Bridgeport, Conn. Brake. No. 1,003,621; Sept. 19; Sp. p. 3131; Gaz. vol. 170; p. 565.
Lincoln, Clinton E., Greensboro, N. C. Non-refillable bottle. No. 980,300; Jan. 3; Sp. p. 225; Gaz. vol. 162; p. 43.
Lincoln, Howard N., Middletown, assignor of one-half to J. J. Horan, New Haven, Conn. Box. No. 988,944; Apr. 4; Sp. p. 1369; Gaz. vol. 165; p. 219.
Lincoln Jeffries and Company. (See Jeffries, Lincoln, assignor.)
Lincoln, Jesse B., East Providence, R. I. Hedge-trimmer. No. 997,396; July 11; Sp. p. 1668; Gaz. vol. 168; p. 302.
Lincoln, Jonathan T., and J. Cornell, Fall River, Mass. Means for testing the balance of a pulley running at a predetermined speed. No. 1,009,323; Nov. 21; Sp. p. 3797; Gaz. vol. 172; p. 661.
Lincoln, L. F. (See Scott, William A., assignor.)
Lincoln, Leo B., Chicago, Ill., assignor to Peat Industries, Limited, Montreal, Canada. Peat plant. No. 1,011,453; Dec. 12; Sp. p. 2358; Gaz. vol. 173; p. 403.
Lincoln, Oliver H., and E. O. Parkhurst, Brownell, Kans. Automobile plow. No. 1,001,537; Aug. 22; Sp. p. 4980; Gaz. vol. 169; p. 899.
Lincoln, Ward W. (See Dillon and Lincoln.)
Lincoln, Ward W., Rock Falls, assignor to C. R. Hardy, Sterling, Ill. Casket-clamp for hearses. No. 986,186; Mar. 7; Sp. p. 899; Gaz. vol. 164; p. 145.
Lind, Andrew A., Oshanter, Pa. Wire clasp. No. 982,614; Jan. 24; Sp. p. 5360; Gaz. vol. 162; p. 924.
Lind, Charles H., Warren, Pa. Grinding, facing, and polishing device for mouthpieces. No. 987,383; Mar. 21; Sp. p. 3433; Gaz. vol. 164; p. 615.
Lind, Charles H., Warren, Pa. Tuning-hammer for tuning pianos. No. 997,143; July 4; Sp. p. 1151; Gaz. vol. 168; p. 186.
Lindberg, Frank, Fridley, Minn. Anti-rail-spreader. No. 980,301; Jan. 3; Sp. p. 228; Gaz. vol. 162; p. 44.
Lindblad, Axel R., Ludvika, Sweden. Electric production of iron and steel and other metals. No. 1,002,286; Sept. 5; Sp. p. 230; Gaz. vol. 170; p. 30.
Linde Air Products Company. (See Linde, Carl von, assignor.)
Linde, Carl von, Munich, Germany, assignor to Linde Air Products Company, Cleveland, Ohio. Apparatus for ascertaining the composition of any boiling mixture of liquids. No. 999,574; Aug. 1; Sp. p. 756; Gaz. vol. 169; p. 130.
Lindelöf, Leonard, Helsingfors, Russia. Machine for producing spiral mouthpieces for cigarettes. No. 999,048; July 25; Sp. p. 5384; Gaz. vol. 168; p. 957.
Lindeman, Otto A., and F. M. Freed, Los Angeles, Cal. Display apparatus. No. 995,359; June 13; Sp. p. 2746; Gaz. vol. 167; p. 468.
Lindemann, August S., Milwaukee, and H. F. Stock, Waukesha, assignors to Milwaukee-Waukesha Brewing Company, Milwaukee, Wis. Pasteurizing bottle beverages. No. 1,005,854; Oct. 17; Sp. p. 2815; Gaz. vol. 171; p. 512.
Lindemann, Charles, New York, N. Y. Attachment for horseshoes. No. 993,848; May 30; Sp. p. 6490; Gaz. vol. 166; p. 1169.
Lindemann, Charles, New York, N. Y. Sign and picture frame. No. 994,012; May 30; Sp. p. 6817; Gaz. vol. 166; p. 1223.
Lindemann, Otto, Hamburg, Germany. Absorber for ammonia-absorption refrigerating-machines. No. 983,731; Feb. 7; Sp. p. 1015; Gaz. vol. 163; p. 162.
Lindemann, Peter, Westchester, and E. B. Rich, New York, N. Y. Mileage coasting-register for electric cars. No. 986,299; Mar. 7; Sp. p. 1122; Gaz. vol. 164; p. 181.
Lindemeyer, William J., Stapleton, N. Y. Ventilator. (Reissue.) No. 13,239; May 9; Sp. p. 2766; Gaz. vol. 166; p. 490.
Lindemuth, Henry H., York, Pa. Valve. No. 999,809; Aug. 8; Sp. p. 1218; Gaz. vol. 169; p. 239.
Linden, Charles A., Jamestown, N. Y., assignor to The Corry Metal Furniture Company, Corry, Pa. Sheet-metal bedstead. No. 984,823; Feb. 21; Sp. p. 3409; Gaz. vol. 163; p. 601.
Linden, Charles A., Jamestown, N. Y., assignor to Corry Metal Furniture Co., Corry, Pa. Metal furniture. No. 997,567; July 11; Sp. p. 2007; Gaz. vol. 168; p. 358.
Linden, Charles A., Jamestown, N. Y., assignor to S. R. Fetch, Corry, Pa. Caster. No. 984,824; Feb. 21; Sp. p. 3410; Gaz. vol. 163; p. 601.
Linden, John J., New York, N. Y., assignor to The J. H. Day Company, Cincinnati, Ohio. Dough-sheeting machine. No. 994,850; June 13; Sp. p. 1661; Gaz. vol. 167; p. 298.
Lindenberg, Leo, Columbus, Ohio. Tank. No. 1,006,572; Oct. 24; Sp. p. 4464; Gaz. vol. 171; p. 797.
Lindenfelser, William A., New York, N. Y. Adhesive-applying apparatus. No. 1,000,096; Aug. 8; Sp. p. 1864; Gaz. vol. 169; p. 337.
Linder, Lemon M., Matthews, Ind. Surface scraper or grader. No. 981,437; Jan. 10; Sp. p. 2893; Gaz. vol. 162; p. 467.
Linder, Oscar, and J. B. Replogle, Chicago, Ill. Selenium cell. No. 1,011,824; Dec. 12; Sp. p. 3193; Gaz. vol. 173; p. 533.
Linderman, Frank M., Chicago, Ill. Belt-fastener. No. 982,374; Jan. 24; Sp. p. 4862; Gaz. vol. 162; p. 842.
Lindermann, Georg. (See Fliegel, Josef, assignor.)
Linderud, Ole J., McVille, N. D. Buckle-protector. No. 1,008,165; Nov. 7; Sp. p. 1097; Gaz. vol. 172; p. 180.
Lindewald, Carl J., Laporte, assignor to The National Time Switch Company, South Bend, Ind. Electric time-switch. No. 1,010,277; Nov. 28; Sp. p. 5767; Gaz. vol. 172; p. 1029.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Mechanism for controlling the connection between driving and driven gears. No. 989,373; Apr. 11; Sp. p. 2292; Gaz. vol. 165; p. 388.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Cultivator. No. 993,081; May 23; Sp. p. 4832; Gaz. vol. 166; p. 877.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Combined fertilizer-distributer and seed-planter. No. 997,625; July 11; Sp. p. 2145; Gaz. vol. 168; p. 380.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Seed-planter. No. 997,626; July 11; Sp. p. 2148; Gaz. vol. 168; p. 381.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Manure-spreader. No. 998,912; July 25; Sp. p. 5067; Gaz. vol. 168; p. 909.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Two-way plow. No. 999,323; Aug. 1; Sp. p. 245; Gaz. vol. 169; p. 46.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Corn-planting mechanism. No. 1,000,683; Aug. 15; Sp. p. 3169; Gaz. vol. 169; p. 574.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Cultivator. No. 1,005,242; Oct. 10; Sp. p. 1444; Gaz. vol. 171; p. 264.
Lindgren, Alexus C., Moline, Ill., assignor to Moline Plow Company. Wheeled plow. No. 1,006,107; Oct. 17; Sp. p. 5358; Gaz. vol. 171; p. 600.
Lindgren, Alexus C., assignor to Moline Plow Company, Moline, Ill. Combined lister-plow and planter. No. 1,006,388; Oct. 17; Sp. p. 4014; Gaz. vol. 171; p. 700.
Lindgren, Arthur W. (See Lindgren, Charles E. and A. W.)
Lindgren, Carl J., assignor of one-half to A. Larson, Warren, Pa. Boat. No. 985,187; Feb. 28; Sp. p. 4174; Gaz. vol. 163; p. 759.
Lindgren, Charles E. and A. W., Aurora, Ill. Wrench. No. 999,377; Aug. 1; Sp. p. 370; Gaz. vol. 169; p. 65.
Lindgren, Joseph A. F., New Britain, Conn. Lathe-tool holder. No. 997,568; July 11; Sp. p. 2010; Gaz. vol. 168; p. 359.
Lindhard, Povl T., assignor to F. L. Smidth & Co., New York, N. Y. Tube-mill. No. 983,068; Jan. 31; Sp. p. 6361; Gaz. vol. 162; p. 1106.
Lindhard, Povl T., assignor to F. L. Smidth & Co., New York, N. Y. Tube-mill. No. 983,069; Jan. 31; Sp. p. 6362; Gaz. vol. 162; p. 1106.
Lindhard, Povl T., assignor to F. L. Smidth & Co., New York, N. Y. Belt-drive. No. 996,022; June 20; Sp. p. 4187; Gaz. vol. 167; p. 728.
Lindhard, Povl T., assignor to F. L. Smidth & Co., New York, N. Y. Rotary kiln. No. 1,008,974; Nov. 14; Sp. p. 3000; Gaz. vol. 172; p. 500.
Lindholm, Charles V., Chicago, Ill. Fire-escape. No. 1,002,999; Sept. 12; Sp. p. 1819; Gaz. vol. 170; p. 314.
Lindholm, Gunnar G. A., Ansonia, Conn. Steam-engine. No. 997,627; July 11; Sp. p. 2150; Gaz. vol. 168; p. 381.
Lindley, George W. (See Gilbert and Lindley.)
Lindley, Thomas H., Cedar Rapids, Iowa, and H. Schreier, Sheboygan, Wis. Rotary engine. No. 986,636; Mar. 14; Sp. p. 1863; Gaz. vol. 164; p. 331.

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Lindley, Willis E., Walla Walla, Wash. Child's folding sulky. No. 1,003,622; Sept. 19; Sp. p. 3132; Gaz. vol. 170; p. 565.
Lindley, Zachary M. (See Sloan and Lindley.)
Lindner, Charles H., Bucyrus, Ohio. Grain-scoop. No. 996,596; June 27; Sp. p. 5474; Gaz. vol. 167; p. 958.
Lindner, John, Waconia, Minn. Sod-cutter. No. 997,454; July 11; Sp. p. 1772; Gaz. vol. 168; p. 322.
Lindner, Rudolf, Erie, Pa. Shaft-coupling. No. 983,070; Jan. 31; Sp. p. 6364; Gaz. vol. 162; p. 1106.
Lindner, Thomas H., Baltimore, Md. Clothes-line. No. 1,005,047; Oct. 3; Sp. p. 1041; Gaz. vol. 171; p. 174.
Lindo, Stephen. (See Bunker and Lindo.)
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Controlling device for alternating-current motors. No. 980,302; Jan. 3; Sp. p. 229; Gaz. vol. 162; p. 44.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current electromagnetic switch. No. 981,931; Jan. 17; Sp. p. 3951; Gaz. vol. 162; p. 660.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current electromagnet. No. 987,146; Mar. 21; Sp. p. 2895; Gaz. vol. 164; p. 532.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Magnetic-traction-wheel-drive elevator. No. 996,933; July 4; Sp. p. 690; Gaz. vol. 168; p. 114.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company. Alternating-current electromagnet. No. 1,005,855; Oct. 17; Sp. p. 2818; Gaz. vol. 171; p. 513.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company. Alternating-current electromagnet. No. 1,005,856; Oct. 17; Sp. p. 2820; Gaz. vol. 171; p. 513.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company. Alternating-current electromagnet. No. 1,005,857; Oct. 17; Sp. p. 2821; Gaz. vol. 171; p. 513.
Lindquist, David L., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Tension leverage for rope-drive elevators. No. 1,011,215; Dec. 12; Sp. p. 1836; Gaz. vol. 173; p. 318.
Lindquist, David L., and A. Sundh, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Rope-drive elevator. No. 987,384; Mar. 21; Sp. p. 3434; Gaz. vol. 164; p. 615.
Lindquist, Frank W., Winthrop, Minn. Support for breast-straps of harness. No. 998,784; July 25; Sp. p. 4775; Gaz. vol. 168; p. 863.
Lindquist, Gustaf, Nisbet, N. D. End-gate. No. 993,260; May 23; Sp. p. 5202; Gaz. vol. 166; p. 933.
Lindquist, Helmer R. (See Samuelson and Lindquist.)
Lindquist, Peter. (See Adzit and Lindquist.)
Lindros, Hjalmer C., Jamestown, N. Y. Sheet-metal-door construction. No. 985,912; Mar. 7; Sp. p. 332; Gaz. vol. 164; p. 53.
Lindsay, Charles W., Anthon, Iowa. Rotary explosive-engine. No. 997,144; July 4; Sp. p. 1152; Gaz. vol. 168; p. 187.
Lindsay, Hamilton, assignor to The Lindsay Wire Weaving Company, Cleveland, Ohio. Loom. No. 1,002,163; Aug. 29; Sp. p. 6298; Gaz. vol. 169; p. 1138.
Lindsay, Onofre, Valparaiso, Chile. Cargo-handling apparatus. No. 994,171; June 6; Sp. p. 141; Gaz. vol. 167; p. 25.
Lindsay, Robert D., Monaca, Pa. Wrench. No. 983,628; Feb. 7; Sp. p. 798; Gaz. vol. 163; p. 127.
Lindsay, William. (See Beck and Lindsay.)
Lindsay Wire Weaving Company, The. (See Lindsay, Hamilton, assignor.)
Lindsey, Emery L., Bellevue, Ky. Cutting-block for paper-trimming machines. No. 1,005,439; Oct. 10; Sp. p. 1899; Gaz. vol. 171; p. 335.
Lindsey, John C., Los Angeles, Cal. Lawn-edger. No. 1,000,028; Aug. 8; Sp. p. 1677; Gaz. vol. 169; p. 314.
Lindsey, John M., Call, Tex. Horse-detacher. No. 994,172; June 6; Sp. p. 144; Gaz. vol. 167; p. 25.
Lindsey, Thomas H., Asheville, N. C. Automatic trap-nest. No. 1,008,043; Nov. 7; Sp. p. 853; Gaz. vol. 172; p. 137.
Lindsley and Allen Electric Company, The. (See Cavanagh, John F., assignor.)
Lindsley, Frederick H., Pawtucket, R. I. Third-rail covering. No. 1,010,504; Dec. 5; Sp. p. 242; Gaz. vol. 173; p. 38.
Lindsley, Milton F. (See King and Lindsley.)
Lindsley, Milton F. (See Peters and Lindsley.)
Lindsley, Milton F., Kings Mills, assignor to The King Powder Company, Cincinnati, Ohio. Explosive. No. 1,008,725; Nov. 14; Sp. p. 2487; Gaz. vol. 172; p. 419.
Lindsley, William D., Waynoka, Okla. Flying-machine. No. 1,002,532; Sept. 5; Sp. p. 784; Gaz. vol. 170; p. 115.
Lindstrom, Andrew, San Francisco, Cal. Combined square and bevel. No. 992,722; May 16; Sp. p. 4043; Gaz. vol. 166; p. 722.
Lindström, Charles A., Allegheny, Pa. Journal-box. No. 1,000,420; Aug. 15; Sp. p. 2582; Gaz. vol. 169; p. 480.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Bolster. No. 985,913; Mar. 7; Sp. p. 334; Gaz. vol. 164; p. 53.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Center-sill construction. No. 990,572; Apr. 25; Sp. p. 4953; Gaz. vol. 165; p. 865.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Cross-bearer for dump-cars. No. 993,082; May 23; Sp. p. 4837; Gaz. vol. 166; p. 878.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Car-truck. No. 993,083; May 23; Sp. p. 4839; Gaz. vol. 166; p. 878.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Brake-staff. No. 993,386; May 30; Sp. p. 5480; Gaz. vol. 166; p. 1009.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Shifting brake-mast. No. 995,164; June 13; Sp. p. 2333; Gaz. vol. 167; p. 404.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburg, Pa. Door-operating mechanism for dump-cars. No. 1,002,856; Sept. 12; Sp. p. 1495; Gaz. vol. 170; p. 265.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Tank-car. No. 1,011,216; Dec. 12; Sp. p. 1839; Gaz. vol. 173; p. 319.
Lindström, Charles A., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Car-door-operating gear. No. 1,012,260; Dec. 19; Sp. p. 4190; Gaz. vol. 173; p. 719.
Lindstrom, Nils O., Nutley, N. J., assignor to A. B. See, New York, N. Y. Alternating-current magnet. No. 989,018; Apr. 11; Sp. p. 1525; Gaz. vol. 165; p. 268.
Lineker, Charles W. (See Green and Lineker.)
Lines, Harvey M., Dubois, Pa. Rail-joint. No. 1,001,966; Aug. 29; Sp. p. 5938; Gaz. vol. 169; p. 1075.
Lines, Howard N., Sabetha, Kans. Acetylene-gas generator. No. 992,723; May 16; Sp. p. 4044; Gaz. vol. 166; p. 722.
Lines, Jesse, Sabetha, Kans. Seed-bag filling and sealing machine. No. 997,145; July 4; Sp. p. 1154; Gaz. vol. 168; p. 187.
Ling, Ernest S. (See Pollock and Ling.)
Lingley, Arthur G. (See Giffin, Lingley, and Cassidy.)
Linick, Frederick. (See Forbes and Linick.)
Lininger, Wesley W., and J. G. Pitton, Denver, Colo. Heating-furnace. No. 1,001,656; Aug. 29; Sp. p. 5232; Gaz. vol. 169; p. 970.
Lininger, Wilber M., Hinton, Okla. Egg-tray for incubators. No. 989,912; Apr. 18; Sp. p. 3474; Gaz. vol. 165; p. 604.
Link-Belt Company. (See Dodge, James M., assignor.)
Link-Belt Company. (See Hayward, Henry E., assignor.)
Link-Belt Company. (See Howson, Henry, assignor.)
Link-Belt Company. (See Pierce, Harold S., assignor.)
Link, Oliver, St. Charles, Mo. Rivet. No. 982,078; Jan. 17; Sp. p. 4258; Gaz. vol. 162; p. 709.
Link, Rolls P., and A. G. Hyde, assignors to Uni-Typebar, Limited, London, England. Type-casting machine. No. 981,438; Jan. 10; Sp. p. 2894; Gaz. vol. 162; p. 468.
Link, Rolls P., and A. C. Morgan, assignors to Uni-Typebar, Limited, London, England. Type casting and composing machine and type-writer. No. 984,947; Feb. 21; Sp. p. 3642; Gaz. vol. 163; p. 642.
Link, W. A. (See Baker, Littleton L., assignor.)
Linke, Willy. (See Janisch and Linke.)
Linker, Leona F., La Crosse, Wis. Child's garment. No. 1,001,538; Aug. 22; Sp. p. 4983; Gaz. vol. 169; p. 899.
Linkie, Charles E., assignor of one-half to W. H. Jones, Utica, N. Y. Oyster-shipping refrigerator. No. 982,837; Jan. 31; Sp. p. 5834; Gaz. vol. 162; p. 1027.
Linkiewicz, Leopold, Brooklyn, N. Y. Target-figure. No. 1,006,856; Oct. 24; Sp. p. 5075; Gaz. vol. 171; p. 894.
Linkmeyer, Carl R., Bremen, Germany. Making salts of hydrated cupric oxid. No. 1,000,827; Aug. 15; Sp. p. 3465; Gaz. vol. 169; p. 624.
Linn, Allen D., Grand Rapids, Mich. Drying lumber. No. 1,005,243; Oct. 10; Sp. p. 1448; Gaz. vol. 171; p. 264.
Linn, Robert, Chicago, Ill. Antifriction-bearing. No. 1,001,764; Aug. 29; Sp. p. 5481; Gaz. vol. 169; p. 1007.
Linn, Stephen A. D., Bluffton, Ind. Wire-splicer. No. 983,911; Feb. 14; Sp. p. 1435; Gaz. vol. 163; p. 254.
Linnahan, Peter J., Beverly, Mass. Micrometer-indicator. No. 993,084; May 23; Sp. p. 4840; Gaz. vol. 166; p. 878.
Linnartz, Hugo, Houston, Tex. Pump-operating mechanism. No. 996,777; July 4; Sp. p. 352; Gaz. vol. 168; p. 60.
Linnekogel, Heinrich, Feuerbach-Stuttgart, Germany. Manufacture of plastic substances. No. 980,807; Jan. 3; Sp. p. 1345; Gaz. vol. 162; p. 216.
Linotype and Machinery Limited. (See Pearce and Billington, assignors.)
Linotype and Machinery Limited. (See Pearce and Parker, assignors.)
Linotype and Machinery Limited. (See Pearce, Billington, Holliwell, and Burgess, assignors.)
Linotype and Machinery Limited. (See Stern and Parker, assignors.)

Alphabetical list of patentees—Continued.

Linotype and Machinery Limited. (See Wood, Frederick W., assignor.)
Linquist, William A., Minneapolis, Minn. Automatic fender for automobiles. No. 1,009,158; Nov. 21; Sp. p. 3388; Gaz. vol. 172; p. 599.
Linscott, Charles W., Jackson, Mich., assignor to Jackson Corset Company. Corset. No. 1,004,581; Oct. 3; Sp. p. 67; Gaz. vol. 171; p. 13.
Linsenmeyer, Andrew H. (See Kubel and Linsenmeyer.)
Linstrum, Otto W., Hoopeston, Ill. Automobile tire-pump. No. 1,011,353; Dec. 12; Sp. p. 2164; Gaz. vol. 173; p. 368.
Linthicum, Frank, Los Angeles, Cal. Pump. No. 1,003,000; Sept. 12; Sp. p. 1820; Gaz. vol. 170; p. 315.
Lintner, Martin. (See Waterbury, Emery D., assignor.)
Linton, John S., Chicago, Ill. Mold for concrete structures. No. 996,419; June 27; Sp. p. 5134; Gaz. vol. 167; p. 899.
Lintz & Eckhardt. (See Unger, Hugo, assignor.)
Linville, Robert W., Los Angeles, Cal. Aerial machine. No. 1,011,454; Dec. 12; Sp. p. 2360; Gaz. vol. 173; p. 403.
Liota, Gasper J. (See Maggio, Paolo, assignor.)
Lipe, Charles. (See McCone and Lipe.)
Lipe, Willard C., Syracuse, N. Y. Friction-clutch. No. 1,004,047; Sept. 26; Sp. p. 4107; Gaz. vol. 170; p. 738.
Lipes, John M., assignor of one-half to W. A. Shroyer, Dayton, Ohio. Ticket printing and delivering machine. No. 994,081; May 30; Sp. p. 6950; Gaz. vol. 166; p. 1246.
Lippert, Harry L., Johnstown, N. Y. Safety sack-fastener. No. 1,006,241; Oct. 17; Sp. p. 3697; Gaz. vol. 171; p. 650.
Lippert, Peter M. (See Meyers, John G., assignor.)
Lippert, Samuel, East Cleveland, Ohio, assignor, by mesne assignments, to The American Pump Company, Phoenix, Ariz. Deep-well pump. No. 996,490; June 27; Sp. p. 5265; Gaz. vol. 167; p. 923.
Lippincott, Frank T., Newark, Ohio. Window construction. No. 998,018; July 18; Sp. p. 3072; Gaz. vol. 168; p. 560.
Lippincott, Frank T., Newark, Ohio. Hinge. No. 1,009,251; Nov. 21; Sp. p. 3632; Gaz. vol. 172; p. 634.
Lippincott, Robert E., assignor to C. H. Burleigh, Worcester, Mass. Changeable illuminated sign. No. 996,778; July 4; Sp. p. 353; Gaz. vol. 168; p. 61.
Lippitz, Wilhelm, Posen, Germany. Gearing. No. 1,003,142; Sept. 12; Sp. p. 2105; Gaz. vol. 170; p. 362.
Lippy, David, Mansfield, Ohio. Tire. No. 999,810; Aug. 8; Sp. p. 1221; Gaz. vol. 169; p. 239.
Lipscomb, William C., Crockett, Tex. Portable power cut-off saw. No. 1,002,164; Aug. 29; Sp. p. 6302; Gaz. vol. 169; p. 1139.
Lipsohn, I. J. (See Woodworth, John C. F., assignor.)
Liquid Carbonic Company, The. (See Parker, Emer H., assignor.)
Liquid Carbonic Company, The. (See Smith, Horace M., assignor.)
Lisberger, Sylvan J., and C. J. Wilson, assignors to The Pacific Gas and Electric Company, San Francisco, Cal. Underground electrical junction-box. No. 1,010,278; Nov. 28; Sp. p. 5770; Gaz. vol. 172; p. 1030.
Lischtiak, Ferdinand, Eggenberg, near Gratz, Austria-Hungary. Kite. No. 997,455; July 11; Sp. p. 1773; Gaz. vol. 168; p. 322.
Lisk Manufacturing Company, The. (See Page and Pritchard, assignors.)
List, Karl G. (See Conrad and List.)
Lister, John T., Cleveland, Ohio. Inner tube. No. 986,637; Mar. 14; Sp. p. 1865; Gaz. vol. 164; p. 331.
Lister, John T., Cleveland, Ohio. Inverted incandescent gas-lamp. No. 992,219; May 16; Sp. p. 2938; Gaz. vol. 166; p. 546.
Lister, John T., Cleveland, Ohio, assignor to The Cleveland Gas Mantle and Supply Company. Apparatus for treating incandescent mantles. No. 989,166; Apr. 11; Sp. p. 1840; Gaz. vol. 165; p. 319.
Lister, John T., assignor of thirty-five one-hundredths to W. Hoyt, Cleveland, Ohio. Device for resiliently supporting the frames and bodies of vehicles. No. 993,849; May 30; Sp. p. 6491; Gaz. vol. 166; p. 1169.
Liston, Marcellus H., and A. C. Pitman, Connellsville, Pa. Metal tie for railways. No. 993,850; May 30; Sp. p. 6493; Gaz. vol. 166; p. 1169.
Liston, Marcellus H., and A. C. Pitman, Grafton, W. Va. Rotary motor. No. 1,009,759; Nov. 28; Sp. p. 4720; Gaz. vol. 172; p. 855.
Litchfield, Charles T., Rosalia, and R. D. McKay, Tacoma, Wash. Self-balancing aeroplane. No. 1,011,354; Dec. 12; Sp. p. 2165; Gaz. vol. 173; p. 369.
Litchfield, Edgar C., and J. C. Harris, assignors to The Litchfield Manufacturing Company, Waterloo, Iowa. Manure-spreader. No. 997,682; July 11; Sp. p. 2261; Gaz. vol. 168; p. 400.
Litchfield, Isaac W., Boston, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Valve for pneumatic-despatch-tube apparatus. No. 992,784; May 23; Sp. p. 4181; Gaz. vol. 166; p. 772.
Litchfield Manufacturing Company, The. (See Harris, John C., assignor.)
Litchfield Manufacturing Company, The. (See Litchfield and Harris, assignors.)
Litchford, W. H. (See Simons, William H., assignor.)
Lithgow, John M., Beaver Falls, and J. S. Sherwood, New Brighton, assignors to Knott & Harker Company, Beaver Falls, Pa. Filter-plate. No. 1,011,976; Dec. 19; Sp. p. 3554; Gaz. vol. 173; p. 621.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Globe or shade for gas-lamps. No. 982,511; Jan. 24; Sp. p. 5160; Gaz. vol. 162; p. 889.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Gas-lamp. No. 986,300; Mar. 7; Sp. p. 1124; Gaz. vol. 164; p. 182.
Litle, Thomas J., Jr., Woodbury, N. J., assignor to Welsbach Light Company. Mantle-fitter's tool. No. 986,638; Mar. 14; Sp. p. 1866; Gaz. vol. 164; p. 331.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Globe-holder for lamps. No. 993,085; May 23; Sp. p. 4842; Gaz. vol. 166; p. 879.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Globe-holding device for lamps. No. 1,002,592; Sept. 5; Sp. p. 916; Gaz. vol. 170; p. 136.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Valve for gas-lamps. No. 1,003,001; Sept. 12; Sp. p. 1822; Gaz. vol. 170; p. 315.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Globe-holder for lamps. No. 1,008,836; Nov. 14; Sp. p. 2714; Gaz. vol. 172; p. 456.
Litscher, Leonard H., Dayton, Oreg. Alarm for incubators. No. 988,198; Mar. 28; Sp. p. 5186; Gaz. vol. 164; p. 920.
Litsey, Wallace, Louisville, Ky. Automatic flange-oiler. No. 1,001,155; Aug. 22; Sp. p. 4218; Gaz. vol. 169; p. 771.
Littauer, Lucius N. (See Johnston, James S., assignor.)
Littauer, Lucius N. (See Weis, John P., assignor.)
Little, Alexander, Detroit, Mich., assignor, by mesne assignments, of one-half to Chief Motor Car Company. Metallic fender and mud-guard. No. 989,619; Apr. 18; Sp. p. 2853; Gaz. vol. 165; p. 504.
Little, Archibald S. B. (See Weber and Little.)
Little, Charles H., Cleveland, Ohio. Drafting instrument. No. 1,003,764; Sept. 19; Sp. p. 3437; Gaz. vol. 170; p. 613.
Little, Charles H., Cleveland, Ohio. Drafting-machine. No. 1,003,765; Sept. 19; Sp. p. 3442; Gaz. vol. 170; p. 614.
Little, Charles H., Cleveland, Ohio. Drafting-machine. No. 1,003,766; Sept. 19; Sp. p. 3446; Gaz. vol. 170; p. 614.
Little, Clarence E., Lynn, Mass., assignor to General Electric Company. Governing mechanism for turbines. No. 980,303; Jan. 3; Sp. p. 233; Gaz. vol. 162; p. 44.
Little, Clarence E., Lynn, Mass., assignor to General Electric Company. Valve-gear for turbines. No. 992,432; May 16; Sp. p. 3452; Gaz. vol. 166; p. 621.
Little, Daniel H. (See Dillon and Little.)
Little, Edward C., Pittsburg, Pa. Lock. No. 993,327; May 23; Sp. p. 5336; Gaz. vol. 166; p. 956.
Little, Emery H. (See Marley and Little.)
Little Giant Hay Press Company. (See Stopple, Walter W., assignor.)
Little, Henry C. (See Crooker, William W., assignor.)
Little, James R., assignor to P. B. Williams and W. H. Govert, Quincy, Ill. Axle and skein. No. 1,005,440; Oct. 10; Sp. p. 1900; Gaz. vol. 171; p. 335.
Little, John W., and C. W. Kelley, McCook, Nebr. Hay-rake or sweep-rake. No. 1,002,165; Aug. 29; Sp. p. 6306; Gaz. vol. 169; p. 1139.
Little, Lillian A. (See Bowen, Philip A., assignor.)
Little, Nathaniel J., and T. G. Cummings, Fargo, N. D. Display-rack. No. 1,001,867; Aug. 29; Sp. p. 5700; Gaz. vol. 169; p. 1043.
Little, Paul C., Carnegie, Pa. Vacuum cleaning apparatus. No. 980,977; Jan. 10; Sp. p. 1829; Gaz. vol. 162; p. 305.
Little, Paul C., Carnegie, assignor to Cleaning Devices Manufacturing Company, Pittsburg, Pa. Vacuum apparatus. No. 996,991; July 4; Sp. p. 836; Gaz. vol. 168; p. 135.
Little, Santford, Fairmont, Ind. Wagon. No. 1,012,666; Dec. 26; Sp. p. 5021; Gaz. vol. 173; p. 901.
Little, William G., East Grinstead, England. Cleansing fluid and sheep-dip. No. 992,220; May 16; Sp. p. 2939; Gaz. vol. 166; p. 547.
Littlefield, Charles W., assignor of one-third to S. E. Eldredge and one-third to J. H. Balch, Jr., Newburyport, Mass. Hawse-snubbing device. No. 980,425; Jan. 3; Sp. p. 509; Gaz. vol. 162; p. 87.
Littlefield, Daniel B., Chicago, Ill. Game apparatus. No. 992,015; May 9; Sp. p. 2506; Gaz. vol. 166; p. 446.
Littlefield, Edward F., and H. A. Drinkwater, Belfast, Me., assignors to The Reece Button Hole Machine Company, Boston, Mass. Marking-gage for buttonhole-machines. No. 1,009,324; Nov. 21; Sp. p. 3798; Gaz. vol. 172; p. 661.

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Littlefield, Frank A., assignor to Nashua Machine Company, Nashua, N. H. Steam-trap. No. 994,851; June 13; Sp. p. 1664; Gaz. vol. 167; p. 298.
Littlehale, Paul B., Cranford, N. J. Picture-frame. No. 999,378; Aug. 1; Sp. p. 372; Gaz. vol. 169; p. 65.
Littlejohn, Charles F., New Haven, Conn. Fare-register. No. 1,010,279; Nov. 28; Sp. p. 5771; Gaz. vol. 172; p. 1030.
Littlejohn, Kendree, Pacolet, S. C. Odometer. No. 1,003,623; Sept. 19; Sp. p. 3134; Gaz. vol. 170; p. 565.
Litton, Ada, Revere, Mass. Device for renovating velvet, ribbons, and the like. No. 1,005,244; Oct. 10; Sp. p. 1455; Gaz. vol. 171; p. 265.
Litzenberg, Theodore, St. Joseph, Mo. Gage attachment for hatchets. No. 989,715; Apr. 18; Sp. p. 3047; Gaz. vol. 165; p. 537.
Lively, James M., New York, N. Y. Railway cross-tie. No. 1,004,798; Oct. 3; Sp. p. 534; Gaz. vol. 171; p. 88.
Livergood, Gerald R., and B. C. Donnelly, St. Joseph, Mo. Trolley-circuit closer. No. 985,685; Feb. 28; Sp. p. 5261; Gaz. vol. 163; p. 929.
Livering, Annie. (See Livering, Charles J., assignor.)
Livering, Charles J., Eddyville, assignor of two-thirds to A. Livering, Louisville, Ky. Hauling and lifting jack. No. 990,819; Apr. 25; Sp. p. 5500; Gaz. vol. 165; p. 947.
Liverman, Cince. (See Friend and Liverman.)
Livermore, Arthur C., Holyoke, Mass., assignor to The American Thread Company, New York, N. Y. Spool-finishing machine. No. 984,680; Feb. 21; Sp. p. 3099; Gaz. vol. 163; p. 549.
Livermore, Arthur C., Holyoke, Mass., assignor to The American Thread Company, New York, N. Y. Forming-machine. No. 984,681; Feb. 21; Sp. p. 3102; Gaz. vol. 163; p. 550.
Livermore, Arthur C., Edgewood Park, assignor to The Union Switch & Signal Company, Swissvale, Pa. Detector-bar. No. 991,073; May 2; Sp. p. 510; Gaz. vol. 166; p. 88.
Livermore, Arthur C., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit-controller. No. 997,397; July 11; Sp. p. 1669; Gaz. vol. 168; p. 303.
Livermore, Levi, Dexter, N. Y. Plow-jointer. No. 981,294; Jan. 10; Sp. p. 2563; Gaz. vol. 162; p. 418.
Livermore Pay Station Company. (See Davis, George H., assignor.)
Liverpool, Harry J., Dorchester, Mass. Lubricator. No. 992,016; May 9; Sp. p. 2508; Gaz. vol. 166; p. 446.
Livingston, Annie, Winnipeg, Manitoba, Canada. Threading attachment for sewing-machines. No. 1,004,445; Sept. 26; Sp. p. 4965; Gaz. vol. 170; p. 874.
Livingston, Charles A., assignor of one-sixth to F. J. Belcher, La Conner, Wash. Oar-lock. No. 981,439; Jan. 10; Sp. p. 2897; Gaz. vol. 162; p. 468.
Livingston, D McRa, New York, N. Y. Machine for making cooler or radiator sections. No. 985,686; Feb. 28; Sp. p. 5264; Gaz. vol. 163; p. 929.
Livingston, D McRa, New York, N. Y. Cooler. No. 985,687; Feb. 28; Sp. p. 5280; Gaz. vol. 163; p. 930.
Livingston, D McRa, and C. W. Fairbank, New York, N. Y. Radiator-support for automobiles. No. 988,119; Mar. 28; Sp. p. 5041; Gaz. vol. 164; p. 894.
Livingston, Gunder B., Burlington, N. D. Spring-wheel. No. 1,007,121; Oct. 31; Sp. p. 5658; Gaz. vol. 171; p. 1039.
Livingston, Henry J., Baltimore, Md. Making concrete-work permanently water-tight. No. 1,008,975; Nov. 14; Sp. p. 3004; Gaz. vol. 172; p. 501.
Livingston, Henry S. (See Lynch, Thomas J., assignor.)
Livingston, John B., New Haven, Conn. Apparatus for handling garbage and similar refuse. No. 999,507; Aug. 1; Sp. p. 618; Gaz. vol. 169; p. 107.
Livingston, John B., New Haven, Conn. Combined cooker, press, and percolator. No. 999,508; Aug. 1; Sp. p. 621; Gaz. vol. 169; p. 107.
Livingston, John B., New Haven, Conn. Inspection and mixing valve. No. 999,575; Aug. 1; Sp. p. 757; Gaz. vol. 169; p. 131.
Livingston, Leon R., Spartanburg, S. C. Automatic door. No. 999,116; July 25; Sp. p. 5495; Gaz. vol. 168; p. 978.
Livingston, William H., Roscoe, Ill. Wire-stretcher. No. 1,009,844; Nov. 28; Sp. p. 4892; Gaz. vol. 172; p. 884.
Livingstone, Lorenzo S., Johnstown, Pa. Fumigator. No. 989,019; Apr. 11; Sp. p. 1527; Gaz. vol. 165; p. 268.
Liwentaal, Alexander, assignor to Humphery and Liwentaal Limited, London, England. Self-propelled vehicle. No. 987,728; Mar. 28; Sp. p. 4166; Gaz. vol. 164; p. 761.
Ljung, Fritz W., Vasterås, Sweden. Attachment for waffle-irons, frying-pans, and such like articles. No. 1,010,059; Nov. 28; Sp. p. 5333; Gaz. vol. 172; p. 956.
Ljungberg, Nels T., assignor of one-third to A. J. Moren, St. Paul, Minn. Stovepipe-coupling. No. 980,304; Jan. 3; Sp. p. 236; Gaz. vol. 162; p. 45.
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 991,448; May 2; Sp. p. 1320; Gaz. vol. 166; p. 220.
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 994,013; May 30; Sp. p. 6818; Gaz. vol. 166; p. 1223.
Ljunggren, Carl J., Providence, R. I. Chalice. No. 994,683; June 6; Sp. p. 1232; Gaz. vol. 167; p. 201.
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 1,002,287; Sept. 5; Sp. p. 231; Gaz. vol. 170; p. 30.
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 1,002,409; Sept. 5; Sp. p. 524; Gaz. vol. 170; p. 74.
Ljunggren, Carl J., Providence, R. I. Closure-locking means. No. 1,006,242; Oct. 17; Sp. p. 3698; Gaz. vol. 171; p. 650.
Ljunglof, Ludwig, Newark, N. J. Machine for wrapping parcels. No. 989,020; Apr. 11; Sp. p. 1528; Gaz. vol. 165; p. 268.
Ljungström, Birger, Stockholm, Sweden. Electric generator, motor, and such like. No. 999,811; Aug. 8; Sp. p. 1222; Gaz. vol. 169; p. 240.
Ljungström, Birger, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Shaft-packing. No. 1,009,425; Nov. 21; Sp. p. 4046; Gaz. vol. 172; p. 698.
Ljungström, Fredrik, Liljeholmen, assignor to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Packing for self-balancing purposes. No. 997,628; July 11; Sp. p. 2151; Gaz. vol. 168; p. 381.
Ljungström, Fredrik, Liljeholmen, assignor to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Labyrinth-packing for turbines. No. 997,629; July 11; Sp. p. 2152; Gaz. vol. 168; p. 381.
Ljungström, Fredrik, assignor to Aktiebolaget Ljungströms Ångturbin, Stockholm, Sweden. Turbine. No. 1,000,097; Aug. 8; Sp. p. 1866; Gaz. vol. 169; p. 337.
Ljutica, Savo B., Portland, Oreg. Food-mold. No. 987,470; Mar. 21; Sp. p. 3617; Gaz. vol. 164; p. 644.
Ljutica, Savo B., Portland, Oreg. Folding tooth-brush. No. 1,006,857; Oct. 24; Sp. p. 5076; Gaz. vol. 171; p. 895.
Llewellyn, William H. (See Voorhees, Gardner T., assignor.)
Llewellyn, William P., Glencoe, Md. Stone-gatherer. No. 981,440; Jan. 10; Sp. p. 2899; Gaz. vol. 162; p. 468.
Lloyd, Daniel, assignor of one-fourth to R. H. Matthews, Cambridge, Md. Combined display-stand and carrier. No. 1,001,416; Aug. 22; Sp. p. 4773; Gaz. vol. 169; p. 860.
Lloyd, David S., Endeavor, Wis. Double step for wagon-bodies. No. 992,785; May 23; Sp. p. 4182; Gaz. vol. 166; p. 774.
Lloyd, Henry, Lexington, Ky. Riveting-machine. No. 1,000,272; Aug. 8; Sp. p. 2232; Gaz. vol. 169; p. 397.
Lloyd, Huldia E. (See Crouch and Lloyd.)
Lloyd-Jones, Horatio O., Winnipeg, Manitoba, Canada. Coupling-head for pipe-lines. No. 1,007,582; Oct. 31; Sp. p. 6670; Gaz. vol. 171; p. 1201.
Lloyd, William B., Yankee, N. Mex. Wheel. No. 999,379; Aug. 1; Sp. p. 373; Gaz. vol. 169; p. 66.
Lloyd, William B., Yankee, N. Mex. Mine-car and the like. No. 1,003,477; Sept. 19; Sp. p. 2810; Gaz. vol. 170; p. 514.
Lloyd, William J., Lynn, Mass., assignor to General Electric Company. Resistance unit. No. 1,011,825; Dec. 12; Sp. p. 3196; Gaz. vol. 173; p. 534.
Lobach, Eugene B., Denver, Colo. Warm-air-regulating hearth. No. 1,006,858; Oct. 24; Sp. p. 5077; Gaz. vol. 171; p. 895.
Lobban, Washington P., *et al.* (See Weierhauser, Henry J., assignor.)
Lobdell Car Wheel Company. (See Stuart, Joseph, assignor.)
Lobel, Morris, New York, N. Y. Headwear. No. 999,812; Aug. 8; Sp. p. 1224; Gaz. vol. 169; p. 240.
Lobley, Max E., New York, assignor to Brooklyn Cooperage Company, Brooklyn, N. Y. Hoop-stapling machine. No. 989,528; Apr. 11; Sp. p. 2620; Gaz. vol. 165; p. 442.
Lobnitz, Henry C., Cowes, Isle of Wight, England. Aerial machine. No. 1,000,273; Aug. 8; Sp. p. 2233; Gaz. vol. 169; p. 397.
Lock Joint Pipe Company. (See Hirsh, Allan M., assignor.)
Lock, Robert, Tarentum, Pa. Accelerating the elimination of occluded slag from molten metal. No. 1,008,420; Nov. 14; Sp. p. 1784; Gaz. vol. 172; p. 311.
Lockard, Charles M., Detroit, Mich. Perfume-dispensing apparatus. No. 999,324; Aug. 1; Sp. p. 251; Gaz. vol. 169; p. 46.
Locke, Edward, Cliftondale, Mass. Swing-operated motor. No. 1,010,652; Dec. 5; Sp. p. 557; Gaz. vol. 173; p. 89.
Locke, Fred M., assignor to The Locke-Insulator Manufacturing Company, Victor, N. Y. High-voltage insulator. No. 998,359; July 18; Sp. p. 3846; Gaz. vol. 168; p. 683.
Locke Insulator Manufacturing Company. (See Goddard, Walter T., assignor.)
Locke-Insulator Manufacturing Company, The. (See Locke, Fred M., assignor.)
Locke, James P., *et al.* (See Gourley, William R., assignor.)
Locke, Louis P., Victor, N. Y. Electric signaling apparatus. No. 1,003,143; Sept. 12; Sp. p. 2106; Gaz. vol. 170; p. 362.

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Locke, Thomas N., Salem, Mass. Track-sanding device. No. 1,010,280; Nov. 28; Sp. p. 5782; Gaz. vol. 172; p. 1030.
Lockhart, Daniel C., Toronto, Ontario, Canada. Button. No. 990,056; Apr. 18; Sp. p. 3777; Gaz. vol. 165; p. 653.
Lockhart, Edward J. and E. M., Galesburg, Mich. Fish bait or lure. No. 1,009,077; Nov. 21; Sp. p. 3232; Gaz. vol. 172; p. 573.
Lockhart, Evelyn M. (See Lockhart, Edward J. and E. M.)
Lockhart, John T., Westmount, Quebec, Canada. Humidifier. No. 1,005,723; Oct. 10; Sp. p. 2528; Gaz. vol. 171; p. 434.
Lockhart, Samuel R., Buna, Tex. Bed. No. 985,355; Feb. 28; Sp. p. 4542; Gaz. vol. 163; p. 815.
Lockhart, Samuel R., assignor of one-half to S. E. Milsted, Buna, Tex. Hose-coupling. No. 981,866; Jan. 17; Sp. p. 3765; Gaz. vol. 162; p. 636.
Lockwood, Albert J., Chicago, Ill. Airship-propeller. No. 1,000,528; Aug. 15; Sp. p. 2806; Gaz. vol. 169; p. 517.
Lockwood, Alexander O., assignor of one-half to M. M. Ellick, Newburgh, N. Y. Locking window-screen. No. 995,408; June 13; Sp. p. 2851; Gaz. vol. 167; p. 484.
Lockwood, Alfred A., assignor to Murex Magnetic Company, Limited, London, England. Treatment of auriferous and argentiferous ores. No. 993,451; May 30; Sp. p. 5627; Gaz. vol. 166; p. 1030.
Lockwood, Alfred A., assignor to Murex Magnetic Company, Limited, London, England. Magnetic preparation of ores. No. 996,491; June 27; Sp. p. 5268; Gaz. vol. 167; p. 924.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing for side and end strains. No. 980,426; Jan. 3; Sp. p. 510; Gaz. vol. 162; p. 87.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing for side and end thrust. No. 980,427; Jan. 3; Sp. p. 511; Gaz. vol. 162; p. 87.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing with loose guard-ring. No. 982,512; Jan. 24; Sp. p. 5162; Gaz. vol. 162; p. 890.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing with resilient cage. No. 991,218; May 2; Sp. p. 833; Gaz. vol. 166; p. 141.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Split-collared sleeve for roller-bearings. No. 991,862; May 9; Sp. p. 2208; Gaz. vol. 166; p. 394.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing with looped cage. No. 995,471; June 20; Sp. p. 2995; Gaz. vol. 167; p. 535.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Lock for roller-bearing casings. No. 998,785; July 25; Sp. p. 4776; Gaz. vol. 168; p. 863.
Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller-bearing. No. 1,003,055; Sept. 12; Sp. p. 1922; Gaz. vol. 170; p. 332.
Lockwood, Frank G., Lone Tree, Iowa. File-cabinet. No. 988,199; Mar. 28; Sp. p. 5189; Gaz. vol. 164; p. 920.
Lockwood, James E. (See Seitz, Edward, assignor.)
Lockwood, James E., and E. Seitz, Peoria, Ill. Vapor-conduit. No. 986,476; Mar. 14; Sp. p. 1524; Gaz. vol. 164; p. 274.
Lockwood Manufacturing Company. (See Thien, Frank P., assignor.) (Reissue.)
Lockwood, Marquis H., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,005,245; Oct. 10; Sp. p. 1456; Gaz. vol. 171; p. 265.
Lockwood, Marquis H., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,006,489; Oct. 24; Sp. p. 4259; Gaz. vol. 171; p. 765.
Lockwood, Virgil H. (See Davis, Granville, assignor.)
Lockwood, Willard D., Schenectady, N. Y. Concrete-bucket. No. 992,724; May 16; Sp. p. 4047; Gaz. vol. 166; p. 723.
Lockwood, William C., San Juan, Porto Rico. Telephone. No. 989,856; Apr. 18; Sp. p. 3359; Gaz. vol. 165; p. 586.
Lockwood, William W., Winfield, Kans. Hay-pulverizer. No. 1,006,573; Oct. 24; Sp. p. 4465; Gaz. vol. 171; p. 797.
Locomotive Superheater Co. (See Hoffmann, Simon, assignor.)
Locomotive Superheater Co. (See Vaughan, Henry H., assignor.)
Locomotive Superheater Company. (See Esch, Peter, assignor.)
Lodge, John F., Philadelphia, Pa. Device for removing snarls, kinks, slacks, &c., from yarn and thread. No. 988,362; Apr. 4; Sp. p. 150; Gaz. vol. 165; p. 26.
Lodge, Louis B., Cuyahoga Falls, Ohio. Vehicle-wheel. No. 1,004,667; Oct. 3; Sp. p. 248; Gaz. vol. 171; p. 43.
Lodge & Shipley Machine Tool Co., The. (See Lodge, William, assignor.)
Lodge & Shipley Machine Tool Company, The. (See Chard, Nicholas D., assignor.)
Lodge, Walter L., Seattle, assignor of one-half to A. W. Lohmann, King county, Wash. Preserving fruit. No. 1,009,325; Nov. 21; Sp. p. 3800; Gaz. vol. 172; p. 662.
Lodge, William, assignor to The Lodge & Shipley Machine Tool Co., Cincinnati, Ohio. Diameter-gage for lathes. No. 985,041; Feb. 21; Sp. p. 3823; Gaz. vol. 163; p. 675.
Lodor, James C., Wilmington, N. C. Lock. No. 1,000,098; Aug. 8; Sp. p. 1867; Gaz. vol. 169; p. 337.
Lodwick, Gwylim S., Mystic, Iowa. Forming wells. No. 1,009,159; Nov. 21; Sp. p. 3390; Gaz. vol. 172; p. 600.
Loe, Syver, Minneapolis, Minn., assignor of two-thirds to J. W. Walker, Pittsburg, Pa. Voting-machine. No. 994,763; June 13; Sp. p. 1458; Gaz. vol. 167; p. 269.
Loe, Theodore, Lakeville, Minn. Litter-carrier. No. 1,012,667; Dec. 26; Sp. p. 5022; Gaz. vol. 173; p. 902.
Loeb, Adolph, Zanesville, Ohio. Guard-rail for street-cars. No. 985,356; Feb. 28; Sp. p. 4544; Gaz. vol. 163; p. 815.
Loeb, Louis L. (See Herman and Loeb.)
Loebinger, Hugo J. (See Bergh, Loebinger, and Neuberger.)
Loebl, Hugo, assignor to M. Kuhn, New York, N. Y. Manifolding sales-book. No. 1,002,288; Sept. 5; Sp. p. 233; Gaz. vol. 170; p. 31.
Loebner, Ernst R., Ruffsdale, Pa. Switch-throwing device. No. 1,006,961; Oct. 24; Sp. p. 5292; Gaz. vol. 171; p. 930.
Loedige, Frederick, assignor of one-half to E. H. Wade, Chicago, Ill. Journal-box lubricant device. No. 1,000,099; Aug. 8; Sp. p. 1869; Gaz. vol. 169; p. 338.
Loedige, Frederick, assignor of one-half to E. H. Wade, Chicago, Ill. Journal-box lubricant device. (Reissue.) No. 13,344; Dec. 26; Sp. p. 6009; Gaz. vol. 173; p. 1052.
Loeffelholz Company. (See Sekowsky, Hermann A., assignor.)
Loeffelman, Leo J., St. Louis, Mo. Non-refillable bottle. No. 986,838; Mar. 14; Sp. p. 2295; Gaz. vol. 164; p. 398.
Loeffler, Charles, Utica, N. Y. Electric switch. No. 998,786; July 25; Sp. p. 4778; Gaz. vol. 168; p. 864.
Loehler, Gustav G., Washington, D. C. Desk-drawer-locking mechanism. No. 996,934; July 4; Sp. p. 692; Gaz. vol. 168; p. 114.
Loehr, Clarence D., Seattle, Wash. Railway-tie fastener and brace. No. 990,890; May 2; Sp. p. 133; Gaz. vol. 166; p. 25.
Loetscher, Emil C., Dubuque, Iowa. Sad-iron. No. 1,007,215; Oct. 31; Sp. p. 5879; Gaz. vol. 171; p. 1073.
Loetzer, Christian E., Sayre, Pa. Berry-washing device. No. 981,205; Jan. 10; Sp. p. 2339; Gaz. vol. 162; p. 386.
Loetzer, Christian E., Sayre, Pa. Motor-boat. No. 1,007,583; Oct. 31; Sp. p. 6671; Gaz. vol. 171; p. 1201.
Loetzer, Christian E., Sayre, Pa. Sectional propeller. No. 1,010,929; Dec. 5; Sp. p. 1178; Gaz. vol. 173; p. 185.
Loew, Charles H., Lakewood, Ohio. Pasteurization. No. 1,004,885; Oct. 3; Sp. p. 749; Gaz. vol. 171; p. 120.
Loew Manufacturing Company, The. (See Lawrence, George R., assignor.) (Reissue.)
Loew Manufacturing Company, The. (See Pinkney, Bryan D., assignor.)
Loewenbach, Erwin B., Milwaukee, Wis. Shoe. No. 992,221; May 16; Sp. p. 2940; Gaz. vol. 166; p. 547.
Loewenstein, Louis C., Lynn, Mass., assignor to General Electric Company. Governing mechanism for turbines. No. 1,008,550; Nov. 14; Sp. p. 2082; Gaz. vol. 172; p. 356.
Loewenstein, Moritz, St. Louis, Mo. Tobacco-pipe. No. 983,152; Jan. 31; Sp. p. 6510; Gaz. vol. 162; p. 1132.
Loewer, Frederick. (See Rohsow and Loewer.)
Loewer, Henry F., Rochester, N. Y. Last. No. 982,838; Jan. 31; Sp. p. 5835; Gaz. vol. 162; p. 1027.
Loewi, Hugo O. (See Lenhart, Philip F., assignor.)
Lofberg, Viktor, Chicago, Ill. Level. No. 1,012,668; Dec. 26; Sp. p. 5024; Gaz. vol. 173; p. 902.
Loffland, John M., Woodsfield, Ohio. Rail-joint support. No. 995,360; June 13; Sp. p. 2750; Gaz. vol. 167; p. 469.
Lofgren, A. L. (See Wester, Axel, assignor.)
Lofgren, Edward G., Tolland, Colo. Car-brake. No. 1,000,684; Aug. 15; Sp. p. 3172; Gaz. vol. 169; p. 574.
Löfquist, Hjalmar, Stockholm, Sweden. Electric heating apparatus. No. 1,012,669; Dec. 26; Sp. p. 5025; Gaz. vol. 173; p. 902.
Loftis, Abner M. (See Sheppard, Charles T., assignor.)
Loftus, Charles T., *et al.* (See Loftus, Thomas J., assignor.)
Loftus, Martin J., Jessup, Pa. Lock for car-gates. No. 1,012,378; Dec. 19; Sp. p. 4431; Gaz. vol. 173; p. 759.
Loftus, Thomas J., assignor of one-half to C. T. Loftus, Castella, Cal., and one-half to H. Bell, Oakland, Cal. Turbine. No. 1,003,144; Sept. 12; Sp. p. 2109; Gaz. vol. 170; p. 363.
Logan, Amanda R. (See Barrelle and Logan.)
Logan, Charles E., and A. R. Barnett, Mill Grove, Mo. Plow-shovel fastener. No. 991,158; May 2; Sp. p. 707; Gaz. vol. 166; p. 120.
Logan, Charles E., and A. R. Barnett, Mill Grove, Mo. Shovel-fastener for cultivators. No. 1,010,159; Nov. 28; Sp. p. 5527; Gaz. vol. 172; p. 989.
Logan, George A., Boston, Mass. Coin-mailing card. No. 1,003,478; Sept. 19; Sp. p. 2812; Gaz. vol. 170; p. 514.
Logan, Viola J., *et al.* (See Smith, Walter M., assignor.)

Logansport Radiator Equipment Company. (See Digan, James F., assignor.)
Logsdon, Alfred, assignor to Star Manufacturing Company, Perry, Iowa. Curtain-rod. No. 988,200; Mar. 28; Sp. p. 5190; Gaz. vol. 164; p. 921.
Logsdon, Alfred, assignor to Bryan Brothers Manufacturing Company, Perry, Iowa. Adjustable ironing-table. No. 996,354; June 27; Sp. p. 4975; Gaz. vol. 167; p. 876.
Löhe, Theodor, Hennef, Germany. Tilting forehearth for furnaces. No. 998,787; July 25; Sp. p. 4781; Gaz. vol. 168; p. 864.
Lohman, Joseph A., Philadelphia, Pa. Sewing-machine. No. 993,452; May 30; Sp. p. 5628; Gaz. vol. 166; p. 1030.
Lohmann, Augustus W. (See Lodge, Walter L., assignor.)
Lohmann Company, The. (See Lohmann, Herman J., assignor.)
Lohmann, Herman J., Jersey City, N. J., assignor to The Lohmann Company. Combining a permeating metallic protective with the surfaces of ferric articles. No. 990,443; Apr. 25; Sp. p. 4669; Gaz. vol. 165; p. 821.
Lohr, Albert A. (See Townsend, Arthur L., assignor.)
Lohr, Carl A., Chicago, Ill. Electric apparatus. No. 983,245; Jan. 31; Sp. p. 6709; Gaz. vol. 162; p. 1164.
Lohse, Johannes, Alva, Okla. Lifting-machine. No. 1,004,048; Sept. 26; Sp. p. 4110; Gaz. vol. 170; p. 739.
Lohse, Richard, Breslau, Germany. Liquid-meter. No. 990,208; Apr. 18; Sp. p. 4093; Gaz. vol. 165; p. 704.
Loiseau, Oscar, Sclaigneaux, Belgium. Manufacture of carbonic oxid. No. 987,147; Mar. 21; Sp. p. 2898; Gaz. vol. 164; p. 532.
Loison, Joseph B., Paris, France. Sieving-machine. No. 989,167; Apr. 11; Sp. p. 1843; Gaz. vol. 165; p. 320.
Lojacono, Francisco, San Juan, Porto Rico. Sugar-cane planter. No. 1,000,529; Aug. 15; Sp. p. 2808; Gaz. vol. 169; p. 518.
Lojacono, Francisco, San Juan, Porto Rico. Sugar-cane planter. No. 1,003,928; Sept. 19; Sp. p. 3805; Gaz. vol. 170; p. 669.
Lokowich, John F., Winston, Mont. Oil-can. No. 1,009,536; Nov. 21; Sp. p. 4267; Gaz. vol. 172; p. 735.
Lombard, Jacob C. (See Hodgkinson, Percy W., assignor.)
Lombard, Nathaniel, Winthrop, Mass. Machine for cutting chips for wood-pulp. No. 989,271; Apr. 11; Sp. p. 2070; Gaz. vol. 165; p. 353.
Lommel, Wilhelm, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Oxazin dye. No. 985,424; Feb. 28; Sp. p. 4700; Gaz. vol. 163; p. 838.
London, James A. (See London, Robert J. and J. A.)
London, Robert J. and J. A., Gravelton, Mo. Photographic machine. No. 999,238; Aug. 1; Sp. p. 86; Gaz. vol. 169; p. 17.
London, William J. A., assignor to The Terry Steam Turbine Company, Hartford, Conn. Elastic-fluid turbine. No. 992,433; May 16; Sp. p. 3455; Gaz. vol. 166; p. 621.
London, William J. A., assignor to The Terry Steam Turbine Company, Hartford, Conn. Fluid-actuated turbine. No. 992,434; May 16; Sp. p. 3456; Gaz. vol. 166; p. 622.
London, William J. A., assignor to The Terry Steam Turbine Company, Hartford, Conn. Elastic-fluid turbine. No. 998,019; July 18; Sp. p. 3075; Gaz. vol. 168; p. 560.
London, William J. A., Edgewood Park, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Balancing means for elastic-fluid turbines. No. 1,011,826; Dec. 12; Sp. p. 3198; Gaz. vol. 173; p. 534.
Lonergan, George H., Los Angeles, Cal. Device for preventing the creeping of railway-rails. No. 1,009,674; Nov. 21; Sp. p. 4518; Gaz. vol. 172; p. 778.
Long, Adam A., assignor to The Tailors' Accessories Co., Rochester, N. Y. Cleaning-machine. No. 1,012,671; Dec. 26; Sp. p. 5031; Gaz. vol. 173; p. 903.
Long, Albert E., Brooklyn, N. Y. Vehicle. No. 987,895; Mar. 28; Sp. p. 4539; Gaz. vol. 164; p. 819.
Long, Andrew, *et al.* (See Loop, Warren L., assignor.)
Long, Andrew C., York, Pa. Frictional gearing. No. 987,308; Mar. 21; Sp. p. 3285; Gaz. vol. 164; p. 590.
Long, Arthur D., Fairfield, Iowa. Rope-making machine. No. 998,360; July 18; Sp. p. 3848; Gaz. vol. 168; p. 683.
Long, August, Richmond, Va. Liquid air-lift. No. 987,729; Mar. 28; Sp. p. 4171; Gaz. vol. 164; p. 762.
Long, Benjamin, Boulder, Colo. Separator. No. 986,581; Mar. 14; Sp. p. 1750; Gaz. vol. 164; p. 310.
Long, Clarence F., Mason City, Iowa. Pail-bottom. No. 998,105; July 18; Sp. p. 3277; Gaz. vol. 168; p. 591.
Long, Elmer E. (See Traxler, Long, and Weld.)
Long, George A., Hartford, Conn. Telephone pay-station. No. 992,786; May 23; Sp. p. 4183; Gaz. vol. 166; p. 774.
Long, George R., assignor to Scovill Manufacturing Company, Waterbury, Conn. Push-button faucet. No. 987,633; Mar. 21; Sp. p. 3928; Gaz. vol. 164; p. 699.
Long, Henry F. (See Gouty, Clarence A., assignor.)
Long, Herbert S., Marion, Ohio. Dumping-wagon. No. 1,008,166; Nov. 7; Sp. p. 1098; Gaz. vol. 172; p. 180.
Long, James A. (See Gunn, William F., assignor.)
Long, James M. (See Hale, John G., assignor.)
Long, John J., East Pittsburg, Pa. Non-explosive oil-can. No. 987,583; Mar. 21; Sp. p. 3830; Gaz. vol. 164; p. 683.
Long, John R., East Akron, Ohio. Wrench. No. 1,007,298; Oct. 31; Sp. p. 6045; Gaz. vol. 171; p. 1103.
Long, Joseph B. (See Todd, Frank, assignor.)
Long, Joseph M., Chicago, Ill. Composition for preserving wood, &c. No. 1,001,657; Aug. 29; Sp. p. 5235; Gaz. vol. 169; p. 970.
Long, Lee. (See Conway, Harry B., assignor.)
Long, Lemuel L., Toledo, Ohio. Mold-jacket. No. 1,007,462; Oct. 31; Sp. p. 6390; Gaz. vol. 171; p. 1160.
Long, McArthur, Memphis, Tenn. Window-sash lock. No. 983,732; Feb. 7; Sp. p. 1016; Gaz. vol. 163; p. 162.
Long, Peter M., Mohrsville, Pa. Folding crate. No. 995,880; June 20; Sp. p. 3911; Gaz. vol. 167; p. 679.
Long, Robert. (See Buress, George, assignor.)
Long, Sidney L., Minneapolis, Minn. Corn-popper. No. 994,014; May 30; Sp. p. 6819; Gaz. vol. 166; p. 1224.
Long, Wallas R. (See Erwin and Long.)
Long, Winfield A., Baltimore, Md. Cranking device for automobiles. No. 995,613; June 20; Sp. p. 3323; Gaz. vol. 167; p. 585.
Longaker, Albert A. (See Derbyshire and Longaker.)
Longaker, Albert A., assignor to Chambersburg Engineering Company, Chambersburg, Pa. Cylinder system for hydraulic presses. No. 996,992; July 4; Sp. p. 839; Gaz. vol. 168; p. 135.
Longan, John V., Archer City, Tex. Wire-stretcher. No. 987,896; Mar. 28; Sp. p. 4543; Gaz. vol. 164; p. 819.
Longden, Isaac, Three Rivers, Mass. Detector device for cloth-finishing machines. No. 1,012,379; Dec. 19; Sp. p. 4432; Gaz. vol. 173; p. 759.
Longenecker, Charles I. (See Johnston and Longenecker.)
Longfellow, Henry W., Allston, Mass. Wrench. No. 992,511; May 16; Sp. p. 3612; Gaz. vol. 166; p. 649.
Longsdon, Henry C., and J. R. Bottomley, assignors to W. Summerscales and Sons (1898) Limited, Keighley, England. Collar and cuff pressing machine. No. 998,622; July 25; Sp. p. 4397; Gaz. vol. 168; p. 806.
Longsdorf, Owen E., Crafton, Pa. System of electric traction. No. 980,540; Jan. 3; Sp. p. 792; Gaz. vol. 162; p. 127.
Longstaff, Frank, assignor to The Badger Brass Manufacturing Company, Kenosha, Wis. Lamp. No. 985,815; Mar. 7; Sp. p. 94; Gaz. vol. 164; p. 20.
Longtine, Robert V., assignor of one-third to W. E. Wildman and one-third to D. Kinsey, Taft, Cal. Walking-beam. No. 1,009,537; Nov. 21; Sp. p. 4268; Gaz. vol. 172; p. 735.
Longwell, James, Minneapolis, Minn. Water-skate. No. 987,730; Mar. 28; Sp. p. 4173; Gaz. vol. 164; p. 762.
Lonskey, John H., assignor to The Ideal Manufacturing Company, Detroit, Mich. Pipe-fitting. No. 987,807; Mar. 28; Sp. p. 4328; Gaz. vol. 164; p. 788.
Loomis, Allen, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Shock-absorber for motor-vehicles. No. 982,282; Jan. 24; Sp. p. 4678; Gaz. vol. 162; p. 809.
Loomis, Allen, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Bow-separator for vehicle-tops. No. 994,852; June 13; Sp. p. 1668; Gaz. vol. 167; p. 299.
Loomis, Allen, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Universally-jointed shaft. No. 1,010,060; Nov. 28; Sp. p. 5334; Gaz. vol. 172; p. 957.
Loomis, Allen, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Ignition apparatus for hydrocarbon-engines. No. 1,011,977; Dec. 19; Sp. p. 3556; Gaz. vol. 173; p. 621.
Loomis, Allen, assignor, by mesne assignments, to Packard Motor Car Company, Detriot, Mich. Wind-shield for motor-vehicles. No. 1,012,670; Dec. 26; Sp. p. 5027; Gaz. vol. 173; p. 903.
Loomis, Burdett, Hartford, Conn., assignor to Loomis Utilization Company. Treating blast-furnace gases and preparing char-peat. No. 990,891; May 2; Sp. p. 134; Gaz. vol. 166; p. 25.
Loomis, Fordyce C., New Philadelphia, Ohio. Valve mechanism for rock-drills. No. 995,614; June 20; Sp. p. 3325; Gaz. vol. 167; p. 586.
Loomis, Gilbert J., assignor to Modern Tool Company, Erie, Pa. Driving device for gas-engine fans. No. 994,764; June 13; Sp. p. 1467; Gaz. vol. 167; p. 269.
Loomis, Harry T., assignor to Frank & Lambert, New York, N. Y. Door crape-holder. No. 995,472; June 20; Sp. p. 2997; Gaz. vol. 167; p. 535.
Loomis, James T., Toledo, Ohio. Insect-destroyer. No. 1,003,278; Sept. 12; Sp. p. 2404; Gaz. vol. 170; p. 413.
Loomis, Maynard, Burlington, Wash. Farm-gate. No. 983,733; Feb. 7; Sp. p. 1018; Gaz. vol. 163; p. 163.
Loomis Utilization Company. (See Loomis, Burdett, assignor.)
Looney, John P., assignor of one-half to W. A. McCormick, Buckholts, Tex. Starting device. No. 984,948; Feb. 21; Sp. p. 3645; Gaz. vol. 163; p. 642.
Looney, Miles H., Vansant, Va. Railway-joint. No. 995,264; June 13; Sp. p. 2526; Gaz. vol. 167; p. 436.
Loop, John D., Pomona, Cal. Continuous internal-combustion generator. No. 992,891; May 23; Sp. p. 4421; Gaz. vol. 166; p. 811.
Loop, Warren L., assignor of one-third to A. Long and one-third to O. Bell, Eldred, Pa. Nut-lock. No. 995,881; June 20; Sp. p. 3913; Gaz. vol. 167; p. 679.

Alphabetical list of patentees—Continued.

Looram, Matthew M., New York, N. Y. Storage-room. No. 1,005,048; Oct. 3; Sp. p. 1042; Gaz. vol. 171; p. 174.
Loos, Franz, Ottowitz, near Carlsbad, assignor to C. Schwalb, Carlsbad, Austria-Hungary. Safety suspending device for lift-cages. No. 1,010,281; Nov. 28; Sp. p. 5784; Gaz. vol. 172; p. 1030.
Loos, Irven E., Cambridge Springs, Pa. Adjustable stool, chair, and the like. No. 1,001,417; Aug. 22; Sp. p. 4774; Gaz. vol. 169; p. 860.
Loose, Robert D., Chicago, Ill. Mixer for internal-combustion engines. No. 1,012,380; Dec. 19; Sp. p. 4433; Gaz. vol. 173; p. 759.
Loose-Wiles Biscuit Company. (See Cullen, Edward F., assignor.)
Loose-Wiles Biscuit Company. (See Wollbrinck, William, assignor.)
Loper, Ralph E., Port Jefferson, N. Y. Muffler. No. 995,265; June 13; Sp. p. 2527; Gaz. vol. 167; p. 436.
Lopes, Joseph W., Salinas, Cal. Book-mark. No. 1,008,481; Nov. 14; Sp. p. 1943; Gaz. vol. 172; p. 332.
Lopez, Joseph, *et al.* (See Moore, Martin W., assignor.)
Loquin, Alexander. (See Kraus, Rudolf, assignor.)
Loqvist, August H., Eskilstuna, Sweden. Milking-machine. No. 997,569; July 11; Sp. p. 2011; Gaz. vol. 168; p. 359.
Lorain Steel Company, The. (See Ervin, George M., assignor.)
Lorain Steel Company, The. (See Kleinschmidt, Henry F. A., assignor.)
Lorain Steel Company, The. (See Sann, Otto, assignor.)
Lord, Benjamin F., Jr., Milburn, N. J. Speed-controller for motor-vehicles. No. 1,009,675; Nov. 21; Sp. p. 4519; Gaz. vol. 172; p. 778.
Lord, Charles E., Norwood, Ohio, assignor to Allis-Chalmers Company. Controller. No. 983,380; Feb. 7; Sp. p. 264; Gaz. vol. 163; p. 45.
Lord, Charles E., Norwood, Ohio, assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 1,005,858; Oct. 17; Sp. p. 2823; Gaz. vol. 171; p. 514.
Lord, Charles E., Milwaukee, Wis., assignor to Allis-Chalmers Company. Induction-motor. No. 991,626; May 9; Sp. p. 1716; Gaz. vol. 166; p. 315.
Lord, Charles E., Milwaukee, Wis., assignor to Allis-Chalmers Company. Three-wire dynamo-electric machine. No. 996,266; June 27; Sp. p. 4767; Gaz. vol. 167; p. 845.
Lord, Charles E., Milwaukee, Wis., assignor to Allis-Chalmers Company. Motor-controller. No. 998,361; July 18; Sp. p. 3851; Gaz. vol. 168; p. 684.
Lord, H. C. (See Fulford, Elijah D., assignor.)
Lord, Harry G., Philadelphia, Pa. Fly or insect catcher. No. 988,003; Mar. 28; Sp. p. 4807; Gaz. vol. 164; p. 856.
Lord, John D., assignor, by mesne assignments, of one-half to R. L. Spotts, New York, N. Y. Mechanism for applying bottle-caps. No. 983,829; Feb. 7; Sp. p. 1235; Gaz. vol. 163; p. 196.
Lord, John S., Ogden, Iowa. Road-grader. No. 990,488. Apr. 25; Sp. p. 4780; Gaz. vol. 165; p. 836.
Lord, Peter, assignor of one-fourth to J. A. H. Hebert, one-fourth to C. Leluau, and one-eighth to G. Itzweire, Montreal, Canada. Steering apparatus. No. 982,215; Jan. 17; Sp. p. 4507; Gaz. vol. 162; p. 756.
Lord, Peter, assignor of one-fourth to J. A. H. Herbert, one-fourth to C. Leluau, and one-eighth to G. Itzweire, Montreal, Quebec, Canada. Mechanical movement. No. 987,385; Mar. 21; Sp. p. 3438; Gaz. vol. 164; p. 616.
Lord, Peter, assignor of one-fourth to J. A. Hebert, one-fourth to C. Leluau, one-eighth to L. A. Delorme, and one-eighth to G. Itzwerre, Montreal, Quebec, Canada. Gearing. No. 1,007,584; Oct. 31; Sp. p. 6673; Gaz. vol. 171; p. 1202.
Lord, Peter, Montreal, Quebec, assignor of one-fourth to J. A. Hebert, one-eighth to C. Leluau, one-eighth to L. A. Delorme, and one-eighth to G. Itzweire, Montreal, Canada. Gearing. No. 1,009,910; Nov. 28; Sp. p. 5012; Gaz. vol. 172; p. 905.
Lord, Raymond S., Pittsburgh, Pa. Clamping device for pipe-joints. No. 1,006,490; Oct. 24; Sp. p. 4262; Gaz. vol. 171; p. 765.
Loreman, James F., Crisfield, Md. Tongs. No. 1,009,760; Nov. 28; Sp. p. 4722; Gaz. vol. 172; p. 855.
Lorentz, Albert M., McMechen, W. Va. Heating apparatus. No. 980,649; Jan. 3; Sp. p. 1013; Gaz. vol. 162; p. 164.
Lorentzen, Hans B., Notodden, Norway. Electric melting and reduction furnace. No. 996,492; June 27; Sp. p. 5269; Gaz. vol. 167; p. 924.
Lorenz, Ernest H. J., assignor to C. F. Burgess, Madison, Wis. Cutting-off machine. No. 1,006,574; Oct. 24; Sp. p. 4467; Gaz. vol. 171; p. 797.
Lorenz, Jacob M., Chicago, Ill. Electrical bonding device or rail-connector. No. 1,013,029; Dec. 26; Sp. p. 5869; Gaz. vol. 173; p. 1026.
Lorenz, William A., *et al.* (See Arkell, Bartlett, assignor.)
Lorenz, William A., Hartford, Conn. Coupling. No. 1,008,551; Nov. 14; Sp. p. 2086; Gaz. vol. 172; p. 357.
Lorenz, William A., Hartford, Conn., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine. No. 995,473; June 20; Sp. p. 2998; Gaz. vol. 167; p. 535.
Lorenz, William A., assignor of one-fourth to himself, one-fourth to W. H. Honiss, Hartford, Conn., and one-half to Beech-Nut Packing Company, Canajoharie, N. Y. Hermetic-sealing apparatus. No. 986,187; Mar. 7; Sp p. 900; Gaz. vol. 164; p. 146.
Lorenz, William C., Alexandria, Minn. Steering-gear attachment for agricultural machines. No. 989,168; Apr. 11; Sp. p. 1848; Gaz. vol. 165; p. 320.
Lorenzen, Thomas C., Upland, Nebr. Grain-elevator. No. 1,005,049; Oct. 3; Sp. p. 1043; Gaz. vol. 171; p. 174.
Lorillard, Pierre, Tuxedo Park, N. Y. Device for controlling electric circuits. No. 980,541; Jan. 3; Sp. p. 795; Gaz. vol. 162; p. 128.
Lorillard, Pierre, Tuxedo Park, N. Y. Conveyer. No. 1,000,828; Aug. 15; Sp. p. 3467; Gaz. vol. 169; p. 625.
Lorimer, George W., Piqua, Ohio. Conversation-meter for telephone systems. No. 989,529; Apr. 11; Sp. p. 2623; Gaz. vol. 165; p. 442.
Lorimer, George W., Piqua, Ohio. Mold for electrical-contact banks. No. 1,009,426; Nov. 21; Sp. p. 4046; Gaz. vol. 172; p. 698.
Loring, Benjamin C., Cranston, assignor to J. Tillinghast, trustee, Providence, R. I. Vehicle-motor-cooling device. No. 983,505; Feb. 7; Sp. p. 532; Gaz. vol. 163; p. 85.
Loring, Charles. (See Felsing, Samuel D., assignor.)
Loring, Frederick H., London, England. Dynamo-electric machine of the homopolar type. No. 1,012,381; Dec. 19; Sp. p. 4436; Gaz. vol. 173; p. 760.
Loring, George, Cleveland, Ohio. Adjustable holder for reflectors. No. 1,007,122; Oct. 31; Sp. p. 5661; Gaz. vol. 171; p. 1039.
Los Angeles Pressed Brick Co. (See Frost, Charles H., assignor.)
Los Angeles Switch & Signal Company. (See Bell, Walter J., assignor.)
Löscher, Otto. (See Bothe and Löscher.)
Loselle, George H. (See Morrison and Loselle.)
Losey, North, Indianapolis, Ind. Artificial-light-diffusing apparatus. No. 999,813; Aug. 8; Sp. p. 1225; Gaz. vol. 169; p. 240.
Loshbough, George H. (See Bewoy and Loshbough.)
Losinger, Leonard C., Loon Lake, Wash. Combined feed-water regulator and alarm. No. 1,005,246; Oct. 10; Sp. p. 1460; Gaz. vol. 171; p. 265.
Losse, Emile, Villeneuve-St.-Georges, France. Aerial machine. No. 995,361; June 13; Sp. p. 2753; Gaz. vol. 167; p. 469.
Loth Clothing Company. (See Fishman, Joseph, assignor.)
Loth, John, Hibbing, Minn. Loose-leaf binder. No. 1,011,827; Dec. 12; Sp. p. 3201; Gaz. vol. 173; p. 534.
Lott, Hermann H., St. Louis, Mo. Interchangeable head for jewelry. No. 984,682; Feb. 21; Sp. p. 3103; Gaz. vol. 163; p. 550.
Lott, John B., Anderson, Ind. Dilator. No. 988,120; Mar. 28; Sp. p. 5043; Gaz. vol. 164; p. 895.
Lott, John B., Anderson, Ind. Track for railway-cars and other vehicles. No. 1,011,978; Dec. 19; Sp. p. 3558; Gaz. vol. 173; p. 622.
Lotte, Henry, St. Jean d'Angély, France. Wheel with multiple and balanced rims. No. 987,471; Mar. 21; Sp. p. 3618; Gaz. vol. 164; p. 644.
Lotter, Franklin, Elkton, Mich. Beet-digger. No. 999,380; Aug. 1; Sp. p. 375; Gaz. vol. 169; p. 66.
Lotter, Franklin, Elkton, Mich. Beet-topper. No. 999,381; Aug. 1; Sp. p. 377; Gaz. vol. 169; p. 66.
Lotterhand, Jason C., New York, N. Y. Printing mechanism for adding-machines. No. 985,042; Feb. 21; Sp. p. 3824; Gaz. vol. 163; p. 675.
Lottridge, William M., Huntsville, assignor of one-half to J. R. Vance, Brooklyn, Ill. Wire-stretcher. No. 985,816; Mar. 7; Sp. p. 96; Gaz. vol. 164; p. 20.
Loucks, James F., Cleveland, Ohio. Reinforcing member. No. 993,851; May 30; Sp. p. 6495; Gaz. vol. 166; p. 1170.
Loud, William C., Detroit, Mich. Loose-leaf binder. No. 1,001,539; Aug. 22; Sp. p. 4985; Gaz. vol. 169; p. 899.
Louden Machinery Company. (See Neller, Albert H., assignor.)
Louden, William, Fairfield, Iowa. Cattle-stanchion. No. 990,827; Apr. 25; Sp. p. 5519; Gaz. vol. 165; p. 950.
Loudermilk, Thomas I., Vincennes township, Knox county, Ind. Tongue-supporting device. No. 991,332; May 2; Sp. p. 1086; Gaz. vol. 166; p. 181.
Loudershausen, August, Dayton, Oreg. Punching-machine. No. 982,149; Jan. 17; Sp. p. 4380; Gaz. vol. 162; p. 732.
Loudon, Archibald M. (See Gow, John, assignor.)
Loufek, Frank B. (See Reiss and Loufek.)
Lougee, William S., Rochester, assignor to J. Spaulding & Sons Company, Milton, N. H. Shoe-form. No. 984,770; Feb. 21; Sp. p. 3310; Gaz. vol. 163; p. 583.
Loughlin, K. C., *et al.* (See Knight, Charles A., assignor.)
Louis, Ulysse, Auxerre, France. Hygienic desk. No. 981,441; Jan. 10; Sp. p. 2902; Gaz. vol. 162; p. 469.
Louiso, George P., *et al.* (See Dunn, Frank P., assignor.)
Lounsberry, Ward A., Kalamazoo, Mich. Clutch for paper-rolls. No. 1,001,056; Aug. 22; Sp. p. 4018; Gaz. vol. 169; p. 739.
Loup, Robert. (See Rosenhek, Mirocourt, and Loup.)
Lourey-Pope Manufacturing Company. (See Pope, Thomas E., assignor.)

Alphabetical list of patentees—Continued.

Lourie, Herbert M., Keokuk, Iowa, assignor to Lourie Manufacturing Co. Tire-setting machine. No. 989,913; Apr. 18; Sp. p. 3475; Gaz. vol. 165; p. 604.
Lourie Manufacturing Co. (See Lourie, Herbert M., assignor.)
Loutensock, John N., Garfield, Utah. Belt-adjuster. No. 992,568; May 16; Sp. p. 3742; Gaz. vol. 166; p. 669.
Louth, William A., Chicago, Ill. Street-indicator. No. 1,006,763; Oct. 24; Sp. p. 4851; Gaz. vol. 171; p. 861.
Louvet, Jules, Montrogue, France. Device for automatically stopping the disks of talking-machines. No. 1,001,418; Aug. 22; Sp. p. 4775; Gaz. vol. 169; p. 860.
Louvrier, François, Mexico, Mexico. Electrometallurgical furnace. No. 989,169; Apr. 11; Sp. p. 1847; Gaz. vol. 165; p. 320.
Lovatt, Bernard, assignor to American Sanitary Supply Company, New York, N. Y. Vending-machine. No. 987,634; Mar. 21; Sp. p. 3930; Gaz. vol. 164; p. 700.
Love, C. D., *et al.* (See Minnis, Henry M., assignor.)
Love, Henry M., Utica, N. Y. Organ stop-action. No. 998,189; July 18; Sp. p. 3439; Gaz. vol. 168; p. 620.
Love, James D., Crawford, Miss. Saddle. No. 984,576; Feb. 21; Sp. p. 2879; Gaz. vol. 163; p. 513.
Love, James L., Gainesville, Tex. Flying-machine. No. 988,794; Apr. 4; Sp. p. 1083; Gaz. vol. 165; p. 172.
Love, John, Toronto, Ontario, Canada. Saw-set. No. 1,010,653; Dec. 5; Sp. p. 558; Gaz. vol. 173; p. 89.
Love, Robert B., Antioch, Cal. Vehicle-wheel. No. 996,493; June 27; Sp. p. 5270; Gaz. vol. 167; p. 924.
Love, Samuel P. (See Border and Love.)
Love, Thaddeus D. (See Mitchell and Love.)
Love, Thomas J., Lincoln, Ill. Corn-harvester. No. 1,006,243; Oct. 17; Sp. p. 3699; Gaz. vol. 171; p. 650.
Love, Walter W., Kinson, near Bournemouth, England. Climbing and descending apparatus. No. 1,002,289; Sept. 5; Sp. p. 235; Gaz. vol. 170; p. 31.
Lovejoy, Dimmitt R., Freneau, N. J. Constant-potential electrical system. No. 1,008,482; Nov. 14; Sp. p. 1944; Gaz. vol. 172; p. 332.
Lovejoy, Frank N. (See Smith and Lovejoy.)
Lovejoy, John W., Steel, Ohio. Cuspidor. No. 993,852; May 30; Sp. p. 6496; Gaz. vol. 166; p. 1170.
Lovejoy, Kyle, Hurley, N. Mex. Non-refillable bottle. No. 1,012,672; Dec. 26; Sp. p. 5034; Gaz. vol. 173; p. 904.
Lovejoy, Mabry, Carlsbad, N. Mex. Can-opener. No. 1,002,410; Sept. 5; Sp. p. 526; Gaz. vol. 170; p. 74.
Lovekin, Luther D., Philadelphia, Pa. Water-heater. No. 983,912; Feb. 14; Sp. p. 1436; Gaz. vol. 163; p. 254.
Lovekin, Luther D., Philadelphia, Pa. Fluid heater and cooler. No. 983,913; Feb. 14; Sp. p. 1439; Gaz. vol. 163; p. 254.
Lovekin, Luther D., Philadelphia, Pa. Fluid heater and cooler. No. 983,914; Feb. 14; Sp. p. 1443; Gaz. vol. 163; p. 255.
Lovekin, Luther D., Philadelphia, Pa. Vapor-condenser. No. 983,915; Feb. 14; Sp. p. 1446; Gaz. vol. 163; p. 255.
Lovekin, Luther D., Philadelphia, Pa. Fluid-heater. No. 1,005,441; Oct. 10; Sp. p. 1901; Gaz. vol. 171; p. 335.
Lovekin, Luther D., Philadelphia, Pa. Fluid heater and cooler. No. 1,005,442; Oct. 10; Sp. p. 1905; Gaz. vol. 171; p. 335.
Lovekin, Luther D., Overbrook, Pa., assignor to Gerard Development Company, New York, N. Y. Fluid-pressure-power plant. No. 1,008,726; Nov. 14; Sp. p. 2489; Gaz. vol. 172; p. 419.
Lovelady, Fredrick W., and B. J. Kennedy, Saginaw, Mich. Candy-machine. No. 1,002,411; Sept. 5; Sp. p. 527; Gaz. vol. 170; p. 75.
Lovell, Edward C., Montpelier, England. Machine for packeting tea or other substances. No. 989,914; Apr. 18; Sp. p. 3477; Gaz. vol. 165; p. 605.
Lovell, Edward C., Bristol, England. Machine for packing tea or other goods. No. 998,362; July 18; Sp. p. 3853; Gaz. vol. 168; p. 684.
Lovell, Frank M., Downey, Cal. Well-casing slitter and perforator. No. 1,001,205; Aug. 22; Sp. p. 4327; Gaz. vol. 169; p. 788.
Lovell, Frederic D., Tampico, Mexico. Fibrous absorbent resilient material and making it. No. 996,494; June 27; Sp. p. 5271; Gaz. vol. 167; p. 925.
Lovell, John H., Dorchester, Ill. Penholder. No. 982,184; Jan. 17; Sp. p. 4442; Gaz. vol. 162; p. 744.
Lovell, Ralph L. (See Curtis and Lovell.)
Lovell, Ralph L., Quincy, Mass., assignor to General Electric Company. Stuffing-box. No. 980,542; Jan 3; Sp. p. 798; Gaz. vol. 162; p. 128.
Lovell, William C., *et al.* (See Smith, Walter M., assignor.)
Lovett, Calvin, Kalamazoo, Mich. Gathering implement. No. 1,005,247; Oct. 10; Sp. p. 1461; Gaz. vol. 171; p. 266.
Lovett, Thomas J., Chicago, Ill. Ore treatment. No. 994,472; June 6; Sp. p. 748; Gaz. vol. 167; p. 129.
Lovett, Thomas J., Chicago, Ill. Amalgamating apparatus. No. 1,008,044; Nov. 7; Sp. p. 856; Gaz. vol. 172; p. 137.
Lovibond, Joseph W., Salisbury, England. Apparatus for color estimation. No. 987,148; Mar. 21; Sp. p. 2899; Gaz. vol. 164; p. 532.
Low, Abbot A., *et al.*, trustees. (See Betts, Lewis F., assignor.)
Low, Abbot A. (See Garcia, Hertzberg, and Low.)
Low, Abbot A. (See Hertzberg, Harry, assignor.)
Low, Abbot A., *et al.*, trustees. (See Hertzberg, Harry, assignor.)
Low, Abbot A. (See Hertzberg, Low, and Wohl.)
Low, Abbot A., *et al.* (See Hertzberg, Low, and Wohl.)
Low, Abbot A. (See Hertzberg and Wohl, assignors.)
Low, Abbot A., *et al.*, trustees. (See Hertzberg and Wohl, assignors.)
Low, Abbot A. (See Wohl and Low.)
Low, Abbot A., Horseshoe, and L. K. Johnson, assignors to Alden Type Machine Company, New York, N. Y. Holder for type-containing channels. No. 988,274; Mar. 28; Sp. p. 5340; Gaz. vol. 164; p. 945.
Low, Abbot A., Horseshoe, and H. Hertzberg, New York, N. Y.; said Hertzberg assignor to said Low. Explosive-engine. No. 1,006,244; Oct. 17; Sp. p. 3701; Gaz. vol. 171; p. 651.
Low, Eugene, Refugio, Tex. Envelop. No. 1,010,282; Nov. 28; Sp. p. 5785; Gaz. vol. 172; p. 1031.
Low, Joseph C. (See Goodwin and Low.)
Lowe, Asael. (See Seger and Lowe.)
Lowe, Asael, and A. J. Seger, assignors of one-third to J. Lowe, Ward, Idaho. Hand-stamp. No. 983,153; Jan. 31; Sp. p. 6511; Gaz. vol. 162; p. 1132.
Lowe, Benjamin F., Grangeville, Idaho. Weed-cutter. No. 1,011,455; Dec. 12; Sp. p. 2361; Gaz. vol. 173; p. 404.
Lowe, Elliot. (See Wheeler, James W., assignor.)
Lowe, Elmer. (See Whitaker and Lowe.)
Lowe, Harry E., Pittsburgh, Pa. Artificial bait. No. 1,009,538; Nov. 21; Sp. p. 4270; Gaz. vol. 172; p. 736.
Lowe, Henry L., assignor to Scientific Materials Company, Pittsburg, Pa. Bacteriological oven or incubator. No. 997,070; July 4; Sp. p. 1012; Gaz. vol. 168; p. 162.
Lowe, James E., Norfolk, Va. Prop for motor-cycles and the like. No. 998,703; July 25; Sp. p. 4577; Gaz. vol. 168; p. 834.
Lowe, James L., Moore, Mont. Dirigible headlight. No. 1,007,880; Nov. 7; Sp. p. 533; Gaz. vol. 172; p. 81.
Lowe, John. (See Lowe and Seger, assignors.)
Lowe, John. (See Seger and Lowe.)
Lowe, Wallace W., Byron, Ga. Stalk-chopping roller. No. 992,017; May 9; Sp. p. 2509; Gaz. vol. 166; p. 446.
Lowe, Walter V., Diggle, England. Woven pile fabric. No. 995,693; June 20; Sp. p. 3484; Gaz. vol. 167; p. 614.
Lowell, George H., Birmingham, Ala. Automatic brake-setting mechanism. No. 993,261; May 23; Sp. p. 5203; Gaz. vol. 166; p. 933.
Lowell Machine Shop. (See Farnham, George W., assignor.)
Lowell, Ralph W. E. (See Eneix and Lowell.)
Lowenstein, Gothard, New York, N. Y. Lens-mounting. No. 1,005,248; Oct. 10; Sp. p. 1463; Gaz. vol. 171; p. 266.
Lowenstein, Mauritz, Malden, Mass. Wall-rack. No. 983,734; Feb. 7; Sp. p. 1020; Gaz. vol. 163; p. 163.
Lowenthal, Bernard, assignor to Simplex Mfg. Co., Vicksburg, Miss. Syrup containing and dispensing apparatus. No. 1,011,828; Dec. 12; Sp. p. 3203; Gaz. vol. 173; p. 535.
Lower, Prince E., assignor of one-half to C. C. Clarkson, St. Francisville, Ill. Fishing-tool. No. 985,817; Mar. 7; Sp. p. 97; Gaz. vol. 164; p. 21.
Lower, William W., Tyrone, Pa. Puncture-proof tire. No. 1,010,061; Nov. 28; Sp. p. 5336; Gaz. vol. 172; p. 957.
Lowerre, Anna E., New York, N. Y. Skirt measure and gage. No. 991,159; May 2; p. p. 708; Gaz. vol. 166; p. 120.
Lowery, James F., Tilghman Island, Md. Gasolene-separator. No. 989,620; Apr. 18; Sp. p. 2854; Gaz. vol. 165; p. 505.
Lowery, Robert L., Salisbury, N. C. Lumber-register. No. 1,013,030; Dec. 26; Sp. p. 5871; Gaz. vol. 173; p. 1027.
Loweth, Frederick C., Nottingham, England, assignor to The Singer Manufacturing Company. Box-plaiting machine. No. 1,004,799; Oct. 3; Sp. p. 535; Gaz. vol. 171; p. 89.
Lowman, Jefferson S. (See Garey and Lowman.)
Lowman, Sarah, New York, N. Y. Heel-plate. No. 998,539; July 18; Sp. p. 4200; Gaz. vol. 168; p. 744.
Lowres, George J., Newark, N. J., assignor to Lowres Optical Company. Eyeglass-mounting. No. 1,001,156; Aug. 22; Sp. p. 4219; Gaz. vol. 169; p. 772.
Lowres Optical Company. (See Lowres, George J., assignor.)
Lowrey, Luther A., Frederick, Okla. Cotton-topper. No. 1,002,412; Sept. 5; Sp. p. 532; Gaz. vol. 170; p. 75.
Lowrie, Harriet L., Bradford, Pa. Heat-insulated oven. No. 1,002,716; Sept. 5; Sp. p. 1199; Gaz. vol. 170; p. 179.
Lowrie, Harvey C., New York, N. Y. Wall-safe. No. 980,305; Jan. 3; Sp. p. 237; Gaz. vol. 162; p. 45.
Lowry, Alamander B., Fort Pierce, Fla. Hydrocarbon lighting system. No. 995,882; June 20; Sp. p. 3914; Gaz. vol. 167; p. 680.
Lowry, Edward. (See Jenkins and Lowry.)
Lowry, Edward S. (See Ray, Alexander, assignor.)

Alphabetical list of patentees—Continued.

Lowry, Frank, Steubenville, Ohio, assignor to The Ohio Grease Lubricant Company. Grease lubricator. (Reissue.) No. 13,269; July 11; Sp. p. 2896; Gaz. vol. 168; p. 495.
Lowry, Frank, Steubenville, Ohio, assignor to The Ohio Grease Lubricant Company. Grease lubricator. (Reissue.) No. 13,270; July 11; Sp. p. 2899; Gaz. vol. 168; p. 496.
Lowry, George A., Boston, Mass. Fruit-cleansing machine. No. 1,009,911; Nov. 28; Sp. p. 5013; Gaz. vol. 172; p. 905.
Lowry, Mervin D., Ferron, Utah. Spring-wheel. No. 990,444; Apr. 25; Sp. p. 4671; Gaz. vol. 165; p. 821.
Lowry, William, Waukesha, Wis. Buckle. No. 1,009,845; Nov. 28; Sp. p. 4893; Gaz. vol. 172; p. 884.
Loxley, Arthur C. (See Bazell, Frederick G., assignor.)
Loy, Frank, Newark, N. J. Press. No. 1,001,868; Aug. 29; Sp. p. 5703; Gaz. vol. 169; p. 1043.
Loy, William C., assignor of two-thirds to H. F. Crim and C. Hoover, Rochester, Ind. Glove-nail. No. 1,010,283; Nov. 28; Sp. p. 5787; Gaz. vol. 172; p. 1031.
Lozenski, John G., Leavenworth, Kans. Coupling-hook. No. 997,630; July 11; Sp. p. 2154; Gaz. vol. 168; p. 382.
Lozuaway, Fred S., Portland, Oreg. Face-protector. No. 999,459; Aug. 1; Sp. p. 522; Gaz. vol. 169; p. 92.
Lubart, Morris, New York, N. Y. Display-case. No. 1,012,673; Dec. 26; Sp. p. 5036; Gaz. vol. 173; p. 904.
Lüber, Jakob, Heerbrugg, St. Gallen, Switzerland. Machine for automatic insertion and threading of bobbins. No. 987,472; Mar. 21; Sp. p. 3619; Gaz. vol. 164; p. 645.
Lucas, Adolph E., *et al.* (See Wilson, Rupert E., assignor.)
Lucas, Charles O., Dayton, Ohio. Pump-valve. No. 1,003,479; Sept. 19; Sp. p. 2813; Gaz. vol. 170; p. 515.
Lucas, Daniel. (See Botts and Lucas.)
Lucas, Joseph C., Chicago, assignor of one-half to F. J. Seng, Wilmette, Ill. Metal bedstead. No. 998,582; July 18; Sp. p. 4300; Gaz. vol. 168; p. 760.
Lucas, William G., McKeesport, Pa. Tie and rail-fastener. No. 1,005,050; Oct. 3; Sp. p. 1046; Gaz. vol. 171; p. 175.
Luce, Charles E., Stuttgart, Germany. Articulator for making artificial dentures. No. 1,009,912; Nov. 28; Sp. p. 5015; Gaz. vol. 172; p. 905.
Luce, Don C., Boston, Mass. Drainage and sediment-collecting section for house-boiler conduits. No. 1,013,031; Dec. 26; Sp. p. 5874; Gaz. vol. 173; p. 1027.
Luce Manufacturing Company. (See Luce, Thomas C., assignor.)
Luce, Thomas C., assignor to Luce Manufacturing Company, Dalton, Mass. Lamp-working apparatus. No. 981,664; Jan. 17; Sp. p. 3325; Gaz. vol. 162; p. 565.
Luce, William B., Hingham, Mass. Toy flying-machine. No. 984,683; Feb. 21; Sp. p. 3105; Gaz. vol. 163; p. 551.
Luchsinger, Mathias B., Minneapolis, Minn. Closure for oil-cans. No. 994,943; June 13; Sp. p. 1877; Gaz. vol. 167; p. 330.
Luciani, Jacques, Paris, France. Explosive. No. 989,375; Apr. 11; Sp. p. 2295; Gaz. vol. 165; p. 389.
Lucier, Theophiles. (See Maguire and Lucier.)
Lucke, William F., Peabody, assignor to Holder-Perkins Company, Woburn, Mass. Hollow work-support for leather-working machines. No. 993,387; May 30; Sp. p. 5483; Gaz. vol. 166; p. 1010.
Luckenbach, Royer, Colwyn, Pa. Concentrating-amalgamator. No. 999,814; Aug. 8; Sp. p. 1228; Gaz. vol. 169; p. 240.
Luckenbach, Royer, Colwyn, Pa. Concentrating-amalgamator. No. 1,001,057; Aug. 22; Sp. p. 4020; Gaz. vol. 169; p. 740.
Luckenbach, Royer, Colwyn, Pa., assignor of one-half to S. L. Garretson, San Francisco, Cal. Pulverizer. No. 980,978; Jan. 10; Sp. p. 1833; Gaz. vol. 162; p. 306.
Luckett, Julian B., St. Louis, Mo. Device for catching flies or other insects. No. 1,005,443; Oct. 10; Sp. p. 1909; Gaz. vol. 171; p. 337.
Luckett, William S., Philadelphia, Pa. Cigar-package. No. 999,117; July 25; Sp. p. 5496; Gaz. vol. 168; p. 979.
Luckett, William S., East Orange, N. J., assignor to International Cigar Machinery Company, New York, N. Y. Cigar-machine. No. 1,004,800; Oct. 3; Sp. p. 538; Gaz. vol. 171; p. 89.
Luckey, David F., Columbia, Mo. Producing hog-cholera antitoxin. No. 1,012,874; Dec. 26; Sp. p. 5525; Gaz. vol. 173; p. 975.
Luckow, Carl, Cologne, Germany. Regenerating storage batteries. No. 990,661; Apr. 25; Sp. p. 5151; Gaz. vol. 165; p. 894.
Luckow, Carl, Cologne, Germany. Electrolytic manufacture of difficultly-soluble salts of heavy metals. No. 1,006,389; Oct. 17; Sp. p. 4017; Gaz. vol. 171; p. 700.
Luckweil, Arthur, Mannheim-Neckarau, Germany. Rope belt. No. 992,725; May 16; Sp. p. 4049; Gaz. vol. 166; p. 723.
Luden, Jacob C., Reading, Pa. Suction-pump for vacuum-cleaners. No. 984,227; Feb. 14; Sp. p. 2129; Gaz. vol. 163; p. 360.
Ludington, Frank E., Waterbury, Conn. Continuous cigarette-machine with tipping attachment. No. 983,299; Feb. 7; Sp. p. 86; Gaz. vol. 163; p. 16.
Ludington, Frank J., Waterbury, Conn. Machine for making and tipping cigarettes. No. 989,787; Apr. 18; Sp. p. 3206; Gaz. vol. 165; p. 562.
Ludlow, Freeman C., Cincinnati, Ohio. Gas-heater. No. 1,011,456; Dec. 12; Sp. p. 2363; Gaz. vol. 173; p. 404.
Ludlum, Albert C., New York, N. Y., assignor to New York Engineering Company. Drill. No. 984,825; Feb. 21; Sp. p. 3412; Gaz. vol. 163; p. 602.
Ludlum, Albert C., New York, N. Y., assignor to New York Engineering Company. Pulling-cap for drill-casings. No. 984,826; Feb. 21; Sp. p. 3413; Gaz. vol. 163; p. 602.
Ludlum, Albert C., New York, N. Y., assignor to New York Engineering Company. Drill. No. 984,827; Feb. 21; Sp. p. 3414; Gaz. vol. 163; p. 602.
Ludlum, Albert C., New York, N. Y., assignor to New York Engineering Company. Handle for drill-rods. No. 984,828; Feb. 21; Sp. p. 3416; Gaz. vol. 163; p. 603.
Ludwig, Boenning and Morgan. (See Morgan, Hugh T., assignor.)
Ludwig & Company. (See Hulder, Joseph P., assignor.)
Ludwig, John H., New York, N. Y. Music-spool adjusting and transposing device. No. 981,776; Jan. 17; Sp. p. 3561; Gaz. vol. 162; p. 604.
Ludwig, Thomas I., Jackson, Mich. Corn-husker. No. 983,454; Feb. 7; Sp. p. 426; Gaz. vol. 163; p. 68.
Lueck, Henry H., Dow City, Iowa. Planter. No. 996,867; July 4; Sp. p. 556; Gaz. vol. 168; p. 91.
Luedecke, Julius, Chicago, Ill. Baker's oven. No. 996,495; June 27; Sp. p. 5273; Gaz. vol. 167; p. 925.
Luedeke, Louis W., *et al.* (See Cooper, George, assignor.)
Luening, Eugene G. (See Fischer, Luening, and Collins.)
Lueth, Paul F., Everett, Wash., and I. L. Skeith, Vancouver, British Columbia, Canada, assignors to Sumner Iron Works, Everett, Wash. Edger-guide. No. 991,730; May 9; Sp. p. 1951; Gaz. vol. 166; p. 350.
Luethe, Julius K. (See Rutz and Luethe.)
Luethje, John H., Des Moines, Iowa. Earth-excavating machine. No. 988,883; Apr. 4; Sp. p. 1247; Gaz. vol. 165; p. 199.
Lufft, Gotthilf, Stuttgart, Germany. Aneroid barometer. No. 983,916; Feb. 14; Sp. p. 1449; Gaz. vol. 163; p. 256.
Lufkin Foundry and Machine Company *et al.* (See Trout, Walter C. and W. H., assignors.)
Luft-Verkehrs-Gesellschaft m. b. H. (See Wankmüller, Romeo, assignor.)
Lukas, Christian A., *et al.* (See Wilson, Rupert E., assignor.)
Lukas, Frank, Omaha, Nebr. Wrench. No. 984,280; Feb. 14; Sp. p. 2249; Gaz. vol. 163; p. 380.
Lukaszewske, Anton, assignor to Goldschmidt Thermit Company, New York, N. Y. Metal joint. No. 1,007,005; Oct. 24; Sp. p. 5391; Gaz. vol. 171; p. 945.
Lukaszewski, Stanislaw J., assignor of one-half to J. Folta, S. I. Kolkiewicz, and J. Rzodkowolski, Detroit, Mich. Heating system for explosion-engines. No. 1,007,710; Nov. 7; Sp. p. 128; Gaz. vol. 172; p. 20.
Luke, Benjamin F., and C. L. Allen, Orangeville, Utah. Planter. No. 989,376; Apr. 11; Sp. p. 2298; Gaz. vol. 165; p. 389.
Luke, Benjamin F., and C. L. Allen, Orangeville, Utah, assignors to B. F. Luke Company. Cultivator. No. 1,008,837; Nov. 14; Sp. p. 2715; Gaz. vol. 172; p. 457.
Luke, Claude T., Clark, Ohio. Cultivator-fender. No. 1,003,365; Sept. 12; Sp. p. 2577; Gaz. vol. 170; p. 444.
Lukens, Clarence D., assignor of one-half to D. L. Soloman, St. Louis, Mo. Valve. No. 987,000; Mar. 14; Sp. p. 2612; Gaz. vol. 164; p. 451.
Lukens, Clarence D., assignor of one-half to D. L. Soloman, St. Louis, Mo. Valve. No. 987,001; Mar. 14; Sp. p. 2614; Gaz. vol. 164; p. 452.
Lukens, Clarence D., assignor of one-half to D. L. Soloman, St. Louis, Mo. Valve. No. 987,002; Mar. 14; Sp. p. 2616; Gaz. vol. 164; p. 452.
Lukens, Clarence D., assignor to Fireball Gas Tank & Illuminating Company, St. Louis, Mo. Valve. No. 994,473; June 6; Sp. p. 749; Gaz. vol. 167; p. 129.
Lukens, George E. (See Flint, Jesse, assignor.)
Lukens, Rudolph C., Ardmore, Pa. Railway-clamp. No. 998,972; July 25; Sp. p. 5220; Gaz. vol. 168; p. 930.
Lull, George P., Bradford, Pa. Blackboard-eraser. No. 995,409; June 13; Sp. p. 2852; Gaz. vol. 167; p. 484.
Lulli, Primo, Milwaukee, Wis., assignor to The American Oxhydric Company. Rail-boring blowpipe. No. 1,004,179; Sept. 26; Sp. p. 4436; Gaz. vol. 170; p. 784.
Lum, Walter O., Schenectady, N. Y., assignor to General Electric Company. Motor-starting device for polyphase circuits. No. 1,001,765; Aug. 29; Sp. p. 5483; Gaz. vol. 169; p. 1008.
Lumberg, Wilhelm. (See Stellar and Piepenstock, assignors.)
Lumiere, Louis, Lyon, France. Acoustical instrument. No. 986,477; Mar. 14; Sp. p. 1526; Gaz. vol. 164; p. 275.
Lumley, Robert P., and H. G. Hillman, New York, N. Y., assignors to Public Safety Company, Washington, D. C. Elevator device. No. 981,442; Jan. 10; Sp. p. 2902; Gaz. vol. 162; p. 469.
Lumley, Wilfrid, East Conneaut, Ohio. Gas-fixture. No. 981,206; Jan. 10; Sp. p. 2340; Gaz. vol. 162; p. 386.

Lumley, Wilfrid, East Conneaut, Ohio, assignor to The Conneaut Company. Dome for illuminating-fixtures. No. 980,306; Jan. 3; Sp. p. 239; Gaz. vol. 162; p. 45.
Lumley, Wilfrid, East Conneaut, Ohio, assignor to The Conneaut Company. Body for electric-light fixtures. No. 980,307; Jan. 3; Sp. p. 241; Gaz. vol. 162; p. 46.
Lumley, Wilfrid, East Conneaut, Ohio, assignor to The Conneaut Company. Extensible light-fixture. No. 980,308; Jan. 3; Sp. p. 242; Gaz. vol. 162; p. 46.
Lumley, Wilfrid, East Conneaut, Ohio, assignor to The Conneaut Company. Husk for incandescent bulbs. No. 981,207; Jan. 10; Sp. p. 2343; Gaz. vol. 162; p. 386.
Lumley, Wilfrid, East Conneaut, Ohio, assignor to The Conneaut Company. Crown for chandeliers. No. 987,309; Mar. 21; Sp. p. 3287; Gaz. vol. 164; p. 590.
Lummis, Charles W., assignor to Camden Iron Works, Camden, N. J. Charging device. No. 984,949; Feb. 21; Sp. p. 3647; Gaz. vol. 163; p. 643.
Lummus, Simeon M., Ocala, Fla. Linotype-machine. No. 987,473; Mar. 21; Sp. p. 3625; Gaz. vol. 164; p. 645.
Lumpkin, Bert T. (See Furbos and Lumpkin.)
Lunati, John P., Memphis, Tenn. Horse-detacher. No. 1,010,284; Nov. 28; Sp. p. 5787; Gaz. vol. 172; p. 1031.
Lund, Johann, Irvington-on-Hudson, N. Y. Shelving and display-rack. No. 1,013,032; Dec. 26; Sp. p. 5875; Gaz. vol. 173; p. 1027.
Lund, John G., Minneapolis, Minn. Overhead carrier. No. 988,795; Apr. 4; Sp. p. 1084; Gaz. vol. 165; p. 173.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Nail-driving machine. No. 996,656; July 4; Sp. p. 124; Gaz. vol. 168; p. 22.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Top-lift. No. 999,049; July 25; Sp. p. 5386; Gaz. vol. 168; p. 958.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Designing device. No. 1,001,658; Aug. 29; Sp. p. 5236; Gaz. vol. 169; p. 970.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Device for cutting and ornamenting sheet material. No. 1,003,480; Sept. 19; Sp. p. 2814; Gaz. vol. 170; p. 515.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Manufacture of boots and shoes. No. 1,009,761; Nov. 28; Sp. p. 4724; Gaz. vol. 172; p. 856.
Lundahl, August L. (See Swedlung and Lundahl.)
Lundbeck, Fritz, Los Angeles, Cal. Packing-case for sticky fly-paper. No. 1,012,382; Dec. 19; Sp. p. 4438; Gaz. vol. 173; p. 760.
Lundberg, Elmer A., Greensburg, Pa. Folding umbrella. No. 995,266; June 13; Sp. p. 2528; Gaz. vol. 167; p. 437.
Lundberg, Gustave, Chicago, Ill. Muffler cut-out. No. 1,006,108; Oct. 17; Sp. p. 3363; Gaz. vol. 171; p. 600.
Lundell, John C., Stamford, Tex. Sweep attachment. No. 983,629; Feb. 7; Sp. p. 801; Gaz. vol. 163; p. 128.
Lundghren, Charles, and G. E. Anderson, Austin, Tex. Cultivator-sweep. No. 984,146; Feb. 14; Sp. p. 1928; Gaz. vol. 163; p. 331.
Lundgren, Axel, Chicago, Ill. Boot-holder. No. 999,382; Aug. 1; Sp. p. 379; Gaz. vol. 169; p. 67.
Lundgren, Carl E., La Crosse, Wis., assignor to The Vote Berger Company. Terminal. No. 984,097; Feb. 14; Sp. p. 1841; Gaz. vol. 163; p. 316.
Lundgren, Carl G., Chicago, Ill. Cam-indexing device. No. 1,008,838; Nov. 14; Sp. p. 2719; Gaz. vol. 172; p. 457.
Lundgren, Charles A., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 987,149; Mar. 21; Sp. p. 2903; Gaz. vol. 164; p. 533.
Lundgren, Charles A., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 998,623; July 25; Sp. p. 4400; Gaz. vol. 168; p. 806.
Lundgren, Edwin, Warren, Pa. Water-regulator for suction gas-producers. No. 985,818; Mar. 7; Sp. p. 98; Gaz. vol. 164; p. 21.
Lundgren, Jacob, Philadelphia, Pa. Contact making and breaking device. No. 981,595; Jan. 10; Sp. p. 3188; Gaz. vol. 162; p. 520.
Lundholm, Carl O. (See Sohlman and Lundholm.)
Lundin, Andreas P., New York, N. Y., assignor to Welin Davit and Lane & De Groot Company, Consolidated. Crane or derrick. No. 986,399; Mar. 7; Sp. p. 1356; Gaz. vol. 164; p. 218.
Lundin, August R., Salt Lake City, Utah. Heater. No. 985,610; Feb. 28; Sp. p. 5116; Gaz. vol. 163; p. 904.
Lundin, Carl G., New York, N. Y. Vacuum carpet-sweeper. No. 984,098; Feb. 14; Sp. p. 1842; Gaz. vol. 163; p. 317.
Lundin, Frederick, *et al.* (See Freed, Edward A., assignor.)
Lundin, Knut E., New York, N. Y. Vault-light. No. 985,357; Feb. 28; Sp. p. 4545; Gaz. vol. 163; p. 816.
Lundin, Martin, Chattanooga, Tenn. Metal-working machine. No. 1,006,962; Oct. 24; Sp. p. 5294; Gaz. vol. 171; p. 930.
Lundquist, Ernest F. T., assignor to M. R. Kultchar, Chicago, Ill. Button-making machine. No. 988,478; Apr. 4; Sp. p. 403; Gaz. vol. 165; p. 65.
Lundström, Carl J. (See Henriksson, Carl, assignor.)
Lundstrom, John V., and K. Nielsen, Schenectady, N. Y. Automatic high-temperature-alarm apparatus. No. 998,252; July 18; Sp. p. 3583; Gaz. vol. 168; p. 643.
Lundy, Douglas J. (See McGarrity, Thomas, assignor.)
Lundy, Edgar W., Oradell, N. J. Spigot. No. 1,004,446; Sept. 26; Sp. p. 4966; Gaz. vol. 170; p. 874.
Lundy, Walter J., Chicago, Ill. Note-book. No. 996,496; June 27; Sp. p. 5275; Gaz. vol. 167; p. 925.
Lungen, Adam, New York, N. Y., assignor to Edwards & Company. Annunciator. No. 988,004; Mar. 28; Sp. p. 4808; Gaz. vol. 164; p. 857.
Lungstras, Robert, St. Louis, Mo. Cleaning gloves of kid or leather. No. 986,072; Mar. 7; Sp. p. 677; Gaz. vol. 164; p. 108.
Lunke, John, Everett, Wash. Egg-carrier. No. 998,855; July 25; Sp. p. 4937; Gaz. vol. 168; p. 888.
Lunken, Edmund H., Chicago, Ill., assignor to The Lunkenheimer Company. Window-screen. No. 989,716; Apr. 18; Sp. p. 3049; Gaz. vol. 165; p. 537.
Lunken, Edmund H., Chicago, Ill., assignor, by mesne assignments, to The Lunkenheimer Company. Window construction. No. 993,853; May 30; Sp. p. 6497; Gaz. vol. 166; p. 1170.
Lunken, Edmund H., Cincinnati, Ohio, assignor to The Lunkenheimer Company. Fireproof window construction. No. 1,002,166; Aug. 29; Sp. p. 6307; Gaz. vol. 169; p. 1140.
Lunken, Edmund H., Cincinnati, Ohio, assignor to The Lunkenheimer Company. Fireproof window construction. No. 1,005,249; Oct. 10; Sp. p. 1465; Gaz. vol. 171; p. 267.
Lunken, Edmund H., and G. H. Riddell, Chicago, Ill., assignors to The Lunkenheimer Co., Cincinnati, Ohio. Fireproof window construction. No. 994,015; May 30; Sp. p. 6821; Gaz. vol. 166; p. 1224.
Lunkenheimer Co., The. (See Lunken and Riddell, assignors.)
Lunkenheimer Company, The. (See Lunken, Edmund H., assignor.)
Lunkenheimer Company, The. (See Riddell and Rowe, assignors.)
Lunkenheimer Company, The. (See Schmidt, William, assignor.)
Lunney, Stewart H., San Francisco, Cal. Core-making device. No. 988,579; Apr. 4; Sp. p. 626; Gaz. vol. 165; p. 101.
Lunt, George, Formby, near Liverpool, England. Steam-pipe oven. No. 981,443; Jan. 10; Sp. p. 2906; Gaz. vol. 162; p. 470.
Luoma, Matti, South Gardner, Mass. Ratchet device. No. 995,615; June 20; Sp. p. 3329; Gaz. vol. 167; p. 586.
Luongo, Aniello, New York, N. Y. Tailor's measuring instrument. No. 1,009,427; Nov. 21; Sp. p. 4049; Gaz. vol. 172; p. 698.
Luppino Davenport Company. (See Luppino, Joseph, assignor.)
Luppino, Joseph, Ridgewood, N. J., assignor to Luppino Davenport Company, New York, N. Y. Davenport. No. 984,684; Feb. 21; Sp. p. 3107; Gaz. vol. 163; p. 551.
Luppino, Joseph, Ridgewood, N. J., assignor to Luppino Davenport Company, New York, N. Y. Box-couch. No. 984,685; Feb. 21; Sp. p. 3115; Gaz. vol. 163; p. 551.
Luppino, Joseph, Ridgewood, N. J., assignor to Luppino Davenport Company. Wardrobe-couch. No. 984,829; Feb. 21; Sp. p. 3417; Gaz. vol. 163; p. 603.
Luppino, Joseph, Ridgewood, N. J., assignor, by mesne assignments, to Luppino Davenport Company. Couch or divan. No. 985,043; Feb. 21; Sp. p. 3827; Gaz. vol. 163; p. 676.
Luppold, Jacob W. (See Yancey and Luppold.)
Lursen, Fred, Jr., Menno, S. D. Shaft-support. No. 999,383; Aug. 1; Sp. p. 382; Gaz. vol. 169; p. 67.
Lussier, Henry, Salem, assignor to Draper Company, Hopedale, Mass. Filling-severing device for looms. No. 1,012,875; Dec. 26; Sp. p. 5527; Gaz. vol. 173; p. 975.
Luster, Eugene A., Athens, Ga. Measuring-machine. No. 997,840; July 11; Sp. p. 2654; Gaz. vol. 168; p. 456.
Lusuardi, Amilcare, Rio de Janeiro, Brazil. Register. No. 984,436; Feb. 14; Sp. p. 2541; Gaz. vol. 163; p. 430.
Luten, Daniel B., Indianapolis, Ind. Reinforced structure. No. 989,272; Apr. 11; Sp. p. 2073; Gaz. vol. 165; p. 354.
Luten, Daniel B., Indianapolis, Ind. Surface-drain. No. 998,704; July 25; Sp. p. 4578; Gaz. vol. 168; p. 834.
Luten, Daniel B., Indianapolis, Ind. Reinforced concrete construction. No. 999,663; Aug. 1; Sp. p. 917; Gaz. vol. 169; p. 160.
Luten, Daniel B., Indianapolis, Ind. Skew-arch. No. 1,004,051; Sept. 26; Sp. p. 4117; Gaz. vol. 170; p. 740.
Luten, Daniel B., Indianapolis, Ind. Arch-center. No. 1,005,051; Oct. 3; Sp. p. 1048; Gaz. vol. 171; p. 175.
Luten, Daniel B., La Fayette, Ind. Arch, vault, conduit, &c. No. 1,009,676; Nov. 21; Sp. p. 4524; Gaz. vol. 172; p. 779.
Lutenberger, Mike, Blocton, Ala. Rocking-chair. No. 1,006,963; Oct. 24; Sp. p. 5296; Gaz. vol. 171; p. 931.
Lutes, Walter H., Chicago, Ill. Cover and lock therefor. No. 1,006,245; Oct. 17; Sp. p. 3703; Gaz. vol. 171; p. 651.

Alphabetical list of patentees—Continued.

Luthe, Henry, Brooklyn, N. Y. Braid-machine. No. 1,011,632; Dec. 12; Sp. p. 2814; Gaz. vol. 173; p. 469.
Luther Bros. Co. (See Thompson, James M., assignor.)
Luther, Charles A., Chicago, Ill. Chandelier for gas or electric lighting. No. 997,926; July 11; Sp. p. 2839; Gaz. vol. 168; p. 486.
Luther, Charles A., Chicago, Ill. Chandelier. No. 1,007,881; Nov. 7; Sp. p. 534; Gaz. vol. 172; p. 81.
Luther, Ralph B., Pipestone, Minn. Shoe-shine protector. No. 1,001,540; Aug. 22; Sp. p. 4986; Gaz. vol. 169; p. 900.
Luther, William D. (See Fendring and Luther.)
Lutter & Gies Co. (See Lutter and Gies, assignors.)
Lutter, Herman, and E. A. Gies, assignors to Lutter & Gies Co., Milwaukee, Wis. Crank-planer. No. 982,375; Jan. 24; Sp. p. 4863; Gaz. vol. 162; p. 842.
Lutton, William J., Paterson, N. J. Loom. No. 986,073; Mar. 7; Sp. p. 679; Gaz. vol. 164; p. 108.
Lüttringhaus, Arthur, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Vat dye. No. 1,002,066; Aug. 29; Sp. p. 6127; Gaz. vol. 169; p. 1107.
Lüttringhaus, Arthur, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Vat dye. No. 1,010,930; Dec. 5; Sp. p. 1179; Gaz. vol. 173; p. 185.
Luttringhaus, Arthur, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Vat dye. No. 1,011,068; Dec. 5; Sp. p. 1456; Gaz. vol. 173; p. 231.
Lutz, Elvin H., Hay Springs, Nebr., and E. J. Sheds, Denver, Colo. Slime-filter. No. 983,735; Feb. 7; Sp. p. 1022; Gaz. vol. 163; p. 163.
Lutz, Frank E., Philadelphia, Pa. Electrically-operated hoisting apparatus. No. 996,267; June 27; Sp. p. 4768; Gaz. vol. 167; p. 845.
Lutz, George A., Plainfield, N. J. Means for insulating canopies for systems of electrical distribution. No. 994,474; June 6; Sp. p. 752; Gaz. vol. 167; p. 129.
Lutz, George A., Plainfield, N. J. Primary electric battery. No. 1,000,421; Aug. 15; Sp. p. 2584; Gaz. vol. 169; p. 481.
Lutz, Jacob T., Randolph, S. D. Trace-carrier. No. 1,003,929; Sept. 19; Sp. p. 3806; Gaz. vol. 170; p. 669.
Lutz, Samuel J., El Portal, Cal. Device for fastening tugs to hames. No. 980,543; Jan. 3; Sp. p. 799; Gaz. vol. 162; p. 128.
Lutz, Samuel M., Decatur, Ill. Rein-holder. No. 1,011,457; Dec. 12; Sp. p. 2364; Gaz. vol. 173; p. 404.
Lutz, William F., Jr., Brooklyn, N. Y. Knife. No. 997,683; July 11; Sp. p. 2264; Gaz. vol. 168; p. 400.
Lutz, William F. J. (See Bartlett and Lutz.)
Lutze, Alfred, Halle-on-the-Saale, Germany. Machine for treating and molding plastic masses. No. 997,199; July 4; Sp. p. 1260; Gaz. vol. 168; p. 205.
Lux, Julius K., St. Louis, Mo. Electric switch. No. 994,853; June 13; Sp. p. 1670; Gaz. vol. 167; p. 299.
Lux, Julius K., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 982,684; Jan. 24; Sp. p. 5492; Gaz. vol. 162; p. 947.
Lux, Julius K., Jersey City, N. J., assignor to Pass & Seymour, Inc., Solvay, N. Y. Socket for incandescent electric lamps. No. 1,007,364; Oct. 31; Sp. p. 6180; Gaz. vol. 171; p. 1126.
Lux, Paul, assignor to The Waterbury Clock Co., Waterbury, Conn. Alarm-clock. No. 990,573; Apr. 25; Sp. p. 4955; Gaz. vol. 165; p. 865.
Luxemoor Leather Company, The. (See Moore, Frederick W., assignor.)
Lybeck, Nels A., Hog Island, R. I. Oyster dredging and manipulating machine. No. 991,333; May 2; Sp. p. 1088; Gaz. vol. 166; p. 182.
Lybeck, Nils N., Canton, S. D. Wire splicer and stretcher. No. 1,009,160; Nov. 21; Sp. p. 3395; Gaz. vol. 172; p. 600.
Lydon, Michael J. (See Harrington, Joseph A., assignor.)
Lydon, Timothy, Baltimore, Md. Tile. No. 999,509; Aug. 1; Sp. p. 623; Gaz. vol. 169; p. 107.
Lyhne, Anker S., Bridgeport, Conn. Adjustable standard for portable lamps. No. 1,012,383; Dec. 19; Sp. p. 4439; Gaz. vol. 173; p. 761.
Lyhne, Anker S., Bridgeport, Conn., assignor to W. A. Allen, Yonkers, N. Y. Recording pressure-indicator. No. 994,701; June 6; Sp. p. 1273; Gaz. vol. 167; p. 208.
Lyle, Alexander. (See Owens, Lee, and Lyle.)
Lyle, Joel I., Plainfield, N. J., assignor of one-half to E. T. Murphy, Philadelphia, Pa. Humidifying apparatus and means for controlling same. No. 1,001,869; Aug. 29; Sp. p. 5706; Gaz. vol. 169; p. 1044.
Lyle, Joel I., Plainfield, N. J., and E. T. Murphy, Philadelphia, Pa. Humidifying apparatus and means for controlling the same. No. 1,011,458; Dec. 12; Sp. p. 2366; Gaz. vol. 173; p. 405.
Lyman Gun Sight Corporation, The. (See Windridge, James, assignor.)
Lynch, Charles, Chicago, Ill. Dumping-wagon. No. 986,582; Mar. 14; Sp. p. 1754; Gaz. vol. 164; p. 310.
Lynch, Dossey M. (See Saino, Lynch, Dunbar, and Weatherford.)
Lynch, Edward P., Los Angeles, Cal. Machine for separating solutions from crushed ores. No. 985,611; Feb. 28; Sp. p. 5117; Gaz. vol. 163; p. 905.
Lynch, Eugene P. (See Cavanagh, John F., assignor.)
Lynch, Frank A., Roanoke, Va. Shock-absorber. No. 987,731; Mar. 28; Sp. p. 4174; Gaz. vol. 164; p. 762.
Lynch, James A. (See Schaefer and Lynch.)
Lynch, John A., Spokane, Wash. Bridge. No. 1,007,299; Oct. 31; Sp. p. 6047; Gaz. vol. 171; p. 1103.
Lynch, John H. (See Paul, Lynch, and Meyer.)
Lynch, John J., assignor of one-half to M. O'Connor, Anaconda, Mont. Rail-guard. No. 992,968; May 23; Sp. p. 4599; Gaz. vol. 166; p. 839.
Lynch, John R. (See Briody, Fagan, and Lynch.)
Lynch, John T., Toledo, Ohio. Float. No. 982,615; Jan. 24; Sp. p. 5360; Gaz. vol. 162; p. 924.
Lynch, Michael E., *et al.* (See Fullard, William, assignor.)
Lynch, Philip J. (See Stains and Lynch.)
Lynch, Thomas H. (See Brown, Richard J., assignor.)
Lynch, Thomas J., assignor of one-half to himself and one-half to H. S. Livingston, New York, N. Y. Chewing-gum. No. 987,003; Mar. 14; Sp. p. 2618; Gaz. vol. 164; p. 453.
Lynch, Thomas R. (See Devan, Andrew, assignor.)
Lynch, William F. (See Guptill, Fredrick C., assignor.)
Lynchburg Foundry Company. (See Wiley, Edgar C., assignor.)
Lynde, Frank G., New York, N. Y. Mechanical musical instrument. No. 996,100; June 27; Sp. p. 4357; Gaz. vol. 167; p. 789.
Lynde, Frank G., New York, N. Y. Sheet-adjusting device for mechanical musical instruments. No. 1,008,976; Nov. 14; Sp. p. 3005; Gaz. vol. 172; p. 501.
Lynn, Edward M., Jackson, Minn. Game apparatus. No. 1,005,859; Oct. 17; Sp. p. 2824; Gaz. vol. 171; p. 514.
Lynn, Hiram O., *et al.* (See Fossee, Lewis, assignor.)
Lynn, Walter H., Stockdale, Tex. Cotton-chopping machine. No. 999,815; Aug. 8; Sp. p. 1230; Gaz. vol. 169; p. 241.
Lyon, Charles H., Elmhurst, N. Y. Pulverizing-mill. No. 1,010,062; Nov. 28; Sp. p. 5337; Gaz. vol. 172; p. 957.
Lyon, Edwin R., Queen, N. Mex. Insect-destroyer. No. 986,925; Mar. 14; Sp. p. 2478; Gaz. vol. 164; p. 428.
Lyon, Frederic M., Pontiac, Ill. Feed-regulator. No. 999,118; July 25; Sp. p. 5497; Gaz. vol. 168; p. 979.
Lyon, George C., Magee, Miss. Burglar-alarm. No. 990,445; Apr. 25; Sp. p. 4672; Gaz. vol. 165; p. 821.
Lyon, Howard, Gloucester City, N. J., assignor to Welsbach Light Company. Gas-burner. No. 1,001,967; Aug. 29; Sp. p. 5939; Gaz. vol. 169; p. 1076.
Lyon, Joseph, Dayton, Ohio, assignor of one-third to F. J. McCormick, one-third to F. J. McCormick, Jr., and one-third to F. J. McCormick, trustee of said Joseph Lyon. Burglar-proof keyless alarm-lock. No. 1,012,384; Dec. 19; Sp. p. 4442; Gaz. vol. 173; p. 761.
Lyon, Julian P., Detroit, Mich. Jar-closure. No. 980,544; Jan. 3; Sp. p. 800; Gaz. vol. 162; p. 128.
Lyon, Newton W., Iowa City, Iowa. Shock-handling apparatus. No. 992,892; May 23; Sp. p. 4423; Gaz. vol. 166; p. 811.
Lyon, Samuel S., assignor of one-half to C. P. Martin, Lake Charles, La. Lubricator. No. 983,071; Jan. 31; Sp. p. 6366; Gaz. vol. 162; p. 1106.
Lyon, Shepard, Sault Ste. Marie, Mich. Furnace-door opener. No. 1,000,274; Aug. 8; Sp. p. 2237; Gaz. vol. 169; p. 398.
Lyon, Thompson H., Renfrew, Pa. Wave-detector. No. 1,008,977; Nov. 14; Sp. p. 3006; Gaz. vol. 172; p. 501.
Lyon, William T., Portland, Oreg. Handpiece for dental engines. No. 987,732; Mar. 28; Sp. p. 4176; Gaz. vol. 164; p. 762.
Lyon, William T., Portland, Oreg. Dental plate-swager. No. 995,616; June 20; Sp. p. 3332; Gaz. vol. 167; p. 587.
Lyons, Isaac, *et al.* (See Harper, Jacob P., assignor.)
Lyons, Isaac L., assignors to J. Leider, San Francisco, Cal. Safety-pocket. No. 993,854; May 30; Sp. p. 6500; Gaz. vol. 166; p. 1171.
Lyons, Robert A., London, Ontario, Canada. Pump-valve. No. 1,006,964; Oct. 24; Sp. p. 5297; Gaz. vol. 171; p. 931.
Lyons, Roy N., Jerome, Idaho. Corrugator. No. 985,044; Feb. 21; Sp. p. 3830; Gaz. vol. 163; p. 676.
Lyons, Samuel, *et al.* (See Harper, Jacob P., assignor.)
Lyons, Samuel A., Baltimore, Md. Sewing-machine gage. No. 995,795; June 20; Sp. p. 3731; Gaz. vol. 167; p. 650.
Lyrachord Company, The. (See Breed, George, assignor.)
Lyster, Benton R. and M. J., Whitefield, N. H. Apparatus for reducing wood. No. 995,796; June 20; Sp. p. 3732; Gaz. vol. 167; p. 650.
Lyster, Morton J. (See Lyster, Benton R. and M. J.)
Lytton, Jarard W., assignor to Lytton Manufacturing Corporation, Franklin, Va. Steam-trap. No. 983,381; Feb. 7; Sp. p. 267; Gaz. vol. 163; p. 45.
Lytton, Jarard W., assignor to Lytton Manufacturing Corporation, Franklin, Va. Return steam-trap. No. 989,021; Apr. 11; Sp. p. 1535; Gaz. vol. 165; p. 269.
Lytton Manufacturing Corporation. (See Lytton, Jarard W., assignor.)
M. O'Brien & Son. (See Taepke, Charles A., assignor.)
M. A. Brown Paper Box Company. (See Brown, Marcus A., assignor.)
M. A. Hunt Company, The. (See Wellman, Alexander J., assignor.)

Alphabetical list of patentees—Continued.

M. G. Madson Seed Company, The. (See Kunz, Charles L., assignor.)
M. H. Foundry and Manufacturing Company. (See Heeney, Joseph P., assignor.)
M. H. Treadwell Company. (See Astrom, Carl P., assignor.)
Maart, Frederick D., New York, N. Y. Fly-trap. No. 984,950; Feb. 21; Sp. p. 3649; Gaz. vol. 163; p. 643.
Maas, George H., Milwaukee, Wis. Seal-lock. No. 1,012,876; Dec. 26; Sp. p. 5529; Gaz. vol. 173; p. 975.
Maas, George J., Negaunee, Mich. Instrument for surveying bore-holes. No. 1,003,624; Sept. 19; Sp. p. 3136; Gaz. vol. 170; p. 566.
Mabbs, John W., Chicago, Ill. Elevator system. No. 1,001,870; Aug. 29; Sp. p. 5713; Gaz. vol. 169; p. 1044.
Mabee, Charles R., Detroit, Mich., assignor to S. A. Griggs, trustee, Walkerville, Canada. Evaporation. No. 998,020; July 18; Sp. p. 3077; Gaz. vol. 168; p. 561.
Maben, Carl C. (See Maben, Earl P. and C. C.)
Maben, Earl P. and C. C., Hugo, Colo. Protector. No. 992,222; May 16; Sp. p. 2941; Gaz. vol. 166; p. 547.
Mabin, John W., assignor to C. A. Hager, Bay City, Wis. Coin-controlled vending-machine. No. 1,008,167; Nov. 7; Sp. p. 1101; Gaz. vol. 172; p. 181.
Mabry, Oscar, assignor of one-half to L. Horn, Bethel, Tenn. Wire-clamp. No. 1,010,063; Nov. 28; Sp. p. 5338; Gaz. vol. 172; p. 957.
Mabus, John, Danvers, Ill. Driving device. No. 998,583; July 18; Sp. p. 4302; Gaz. vol. 168; p. 760.
MacArthur, William G., assignor of one-half to L. Meyer, New York, N. Y. Pneumatic piano-player. No. 1,003,279; Sept. 12; Sp. p. 2405; Gaz. vol. 170; p. 413.
MacBain, Donald R., Cleveland, Ohio. Manufacture of steam-boilers. No. 1,002,413; Sept. 5; Sp. p. 533; Gaz. vol. 170; p. 75.
MacBain, Donald R., Cleveland, Ohio. Manufacture of steam-boilers. No. 1,002,414; Sept. 5; Sp. p. 536; Gaz. vol. 170; p. 76.
MacCallan, Arthur T., South Manchester, assignor of one-fourth to E. A. Holstein, New Britain, Conn. Bottle. No. 987,474; Mar. 21; Sp. p. 3626; Gaz. vol. 164; p. 645.
MacColl, James R. and W. B., Providence, R. I. Yarn-cleaner for spoolers, spinning, and similar machines. No. 1,000,029; Aug. 8; Sp. p. 1678; Gaz. vol. 169; p. 315.
MacColl, William B. (See MacColl, James R. and W. B.)
MacCoy, Andrew T., Dover, assignor to C. B. Strecker, Brookline, Mass. Electric type-writing machine. No. 985,824; Mar. 7; Sp. p. 109; Gaz. vol. 164; p. 23.
MacDonald, Allan J., Port Huron, Mich. Drill. No. 1,007,037; Oct. 24; Sp. p. 5454; Gaz. vol. 171; p. 955.
MacDonald, Archibald A., New Glasgow, Nova Scotia, Canada. Fraud-preventing device. No. 1,009,078; Nov. 21; Sp. p. 3234; Gaz. vol. 172; p. 573.
MacDonald, Donald G., assignor of twenty-five one-hundredths to A. La Pierre, Sydney, Nova Scotia, Canada. Incandescent lamp. No. 996,268; June 27; Sp. p. 4770; Gaz. vol. 167; p. 846.
MacDonald, Thomas A., *et al.* (See Milner, Henry J., assignor.)
MacDonnell, James, Haverhill, Mass. Pneumatic tire. No. 981,208; Jan. 10; Sp. p. 2344; Gaz. vol. 162; p. 387.
MacDougal, John D. (See Murray and MacDougal.)
MacDowell, Ernest H. (See Cowles and MacDowell.)
MacDowney, Silas C., Chicago, Ill. Plate-glass fastening. No. 991,731; May 9; Sp. p. 1953; Gaz. vol. 166; p. 350.
MacFarland, William J., Dorchester, and W. G. Eaton, Hull, Mass. Die. (Reissue.) No. 13,228; Apr. 18; Sp. p. 4098; Gaz. vol. 165; p. 705.
MacGahan, Paul, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Record measuring instrument. No. 1,010,160; Nov. 28; Sp. p. 5528; Gaz. vol. 172; p. 990.
MacGlashan, William, Cleveland, Ohio. Device for regulating the flow of liquid from nursing-bottles. No. 990,662; Apr. 25; Sp. p. 5157; Gaz. vol. 165; p. 894.
MacGregor, Alexander. (See Stevens and MacGregor.)
MacGregor, John, New York, N. Y. Barrel construction. No. 1,009,326; Nov. 21; Sp. p. 3801; Gaz. vol. 172; p. 662.
MacGregor, Peter, Ottawa, Ontario, Canada. Filing device. No. 1,002,290; Sept. 5; Sp. p. 238; Gaz. vol. 170; p. 32.
MacGregor, Peter G., New York, N. Y. Clamp-support. No. 997,456; July 11; Sp. p. 1774; Gaz. vol. 168; p. 322.
MacGregor, Wallace F., Racine, Wis., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 997,307; July 11; Sp. p. 1507; Gaz. vol. 168; p. 274.
MacIndoe, John F., Philadelphia, Pa. Lubricator. No. 990,892; May 2; Sp. p. 138; Gaz. vol. 166; p. 26.
MacIvor, Ralph W. E., and W. Hommel, assignors to The Metals Extraction Corporation Limited, London, England. Manufacture of oxid of zinc for smelting. No. 1,007,124; Oct. 31; Sp. p. 5666; Gaz. vol. 171; p. 1040.
MacKay Copper Process Company. (See MacKay, Henry S., assignor.)
MacKay, Henry S., assignor to MacKay Copper Process Company, Riverside, Cal. Extracting metals from their ores. No. 1,011,459; Dec. 12; Sp. p. 2371; Gaz. vol. 173; p. 405.
MacKay, John B., Waterloo, Iowa. Mausoleum. No. 1,008,421; Nov. 14; Sp. p. 1785; Gaz. vol. 172; p. 311.
MacKay, John B., Waterloo, Iowa. Deodorizing and disinfecting apparatus. No. 1,012,089; Dec. 19; Sp. p. 3814; Gaz. vol. 173; p. 661.
MacKay, Simon, assignor to Union Twist Drill Co., Athol, Mass. Slab-milling cutter. No. 994,264; June 6; Sp. p. 334; Gaz. vol. 167; p. 57.
MacKay, Vasil, Boston, Mass. Boiler-cleaning device. No. 1,004,052; Sept. 26; Sp. p. 4117; Gaz. vol. 170; p. 740.
MacKay, Vasil, assignor of one-half to C. Zevitas, Boston, Mass. Boiler. No. 995,544; June 20; Sp. p. 3150; Gaz. vol. 167; p. 561.
MacKaye, James, Cambridge, assignor to Stone and Webster, Boston, Mass. Apparatus for producing chlorids of carbon. No. 1,009,428; Nov. 21; Sp. p. 4051; Gaz. vol. 172; p. 699.
MacKenzie, Alfred T., Chicago, Ill. Cooking utensil. No. 987,386; Mar. 21; Sp. p. 3439; Gaz. vol. 164; p. 616.
MacKenzie, Burt, Greensboro, N. C. Aerial tramway. No 994,944; June 13; Sp. p. 1878; Gaz. vol. 167; p. 330.
MacKenzie, George W., Ben Avon, Pa. Vacuum cleaning apparatus. No. 999,325; Aug. 1; Sp. p. 252; Gaz. vol. 169; p. 46.
MacKenzie, Houston, Chicago, Ill. Door-casing clamp. No. 990,209; Apr. 18; Sp. p. 4093; Gaz. vol. 165; p. 704.
MacKenzie, James G., Westville, Nova Scotia, Canada. Piano-lamp. No. 987,004; Mar. 14; Sp. p. 2619; Gaz. vol. 164; p. 453.
MacKenzie, Roderick M. (See Taylor, John E. S., assignor.)
MacLachlan, John C., assignor of three-fourths to A. P. Hunt, Chicago, Ill. Elastic wheel. No. 988,201; Mar. 28; Sp. p. 5192; Gaz. vol. 164; p. 921.
MacLagan, Hector P., Park Ridge, assignor of one-half to G. M. Willis, Chicago, Ill. Soldering-tool. No. 1,008,922; Nov. 14; Sp. p. 2875; Gaz. vol. 172; p. 483.
MacLagan, John C., Davenport, Iowa. Spool-cabinet. No. 995,617; June 20; Sp. p. 3334; Gaz. vol. 167; p. 587.
MacLaughlin, Harry E., Willmar, Minn. Optical test instrument. No. 994,082; May 30; Sp. p. 6955; Gaz. vol. 166; p. 1247.
MacLean, Lauchlan A., Sarnia, Ontario, Canada. Gearing for cream-separators. No. 998,365; July 18; Sp. p. 3867; Gaz. vol. 168; p. 686.
MacLennan, Angus A., Buena Vista, Colo. Stovepipe-cleaner. No. 1,000,737; Aug. 15; Sp. p. 3282; Gaz. vol. 169; p. 593.
MacLeod, Albert A., Swampscott, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-butt-tacking machine. No. 1,007,711; Nov. 7; Sp. p. 129; Gaz. vol. 172; p. 21.
MacLeod, George S., Seattle, Wash. Safety whiffletree-clip. No. 992,787; May 23; Sp. p. 4184; Gaz. vol. 166; p. 774.
MacLeod, George S., Seattle, Wash. Safety-clip for whiffletrees and neck-yokes. No. 997,457; July 11; Sp. p. 1776; Gaz. vol. 168; p. 322.
MacLeod, George S., Seattle, Wash. Brake-block. No. 997,570; July 11; Sp. p. 2015; Gaz. vol. 168; p. 360.
MacLeod, Walter. (See Caven, Walter L., assignor.)
MacMahon, James H. (See Mauran and MacMahon.)
MacMaster, James, assignor to Columbian Conservatory of Music, Dallas, Tex. Music-indicator. No. 996,935; July 4; Sp. p. 694; Gaz. vol. 168; p. 114.
MacPherson Company, The. (See MacPherson, John G., assignor.)
MacPherson, John G., Philadelphia, Pa., assignor to The MacPherson Company. Taximeter. No. 1,000,275; Aug. 8; Sp. p. 2238; Gaz. vol. 169; p. 398.
MacPherson, John G., Philadelphia, Pa., assignor to The MacPherson Company. Taximeter. No. 1,000,276; Aug. 8; Sp. p. 2243; Gaz. vol. 169; p. 399.
Macadam, John, assignor to The Eddystone Manufacturing Company, Eddystone, Pa. Fabric-printing machine. No. 984,228; Feb. 14; Sp. p. 2130; Gaz. vol. 163; p. 361.
Macbeth, Norman, assignor to Welsbach Light Company, Philadelphia, Pa. Adjustable reflector or shade for gas-lights. No. 1,002,593; Sept. 5; Sp. p. 918; Gaz. vol. 170; p. 137.
Maccarthy, Frank J., assignor of one-third to G. L. Meagher and one-third to E. S. Blackwell, Seattle, Wash. Spring-wheel for automobiles. No. 993,388; May 30; Sp. p. 5485; Gaz. vol. 166; p. 1010.
Macdonald, Donald J. (See Sanborn, Ellet, assignor.)
Macdonald, George C., Cambridge, Mass. Display-box. No. 1,012,674; Dec. 26; Sp. p. 5037; Gaz. vol. 173; p. 905.
Macdonald, Hugh, Ann Arbor, Mich. Signaling mechanism. No. 982,839; Jan. 31; Sp. p. 5838; Gaz. vol. 162; p. 1028.
Macdonald, Hugh, Ann Arbor, Mich. Match-dispensing device. No. 996,779; July 4; Sp. p. 356; Gaz. vol. 168; p. 61.
Macdonald Hydraulic Power Company. (See Macdonald, Thomas A., assignor.)
Macdonald Manufacturing Company. (See Austin, Richard, assignor.)

Alphabetical list of patentees—Continued.

Macdonald, Murdoch, Cleveland, Ohio, assignor to The Macdonald Ticket and Ticket Box Company. Ticket or check holder. No. 1,007,123; Oct. 31; Sp. p. 5663; Gaz. vol. 171; p. 1040.
Macdonald, Peter E. (See Hyle, William A., assignor.)
Macdonald, Thomas A., Clifton, N. J. Power device. No. 995,165; June 13; Sp. p. 2336; Gaz. vol. 167; p. 404.
Macdonald, Thomas A., Clifton, N. J., assignor to Macdonald Hydraulic Power Company. Water-wheel mechanism. No. 982,079; Jan 17; Sp. p. 4259; Gaz. vol. 162; p. 709.
Macdonald, Thomas H., assignor to American Graphophone Company, Bridgeport, Conn. Shaving-machine for sound-records. No. 990,366; Apr. 25; Sp. p. 4473; Gaz. vol. 165; p. 791.
Macdonald, Thomas H., assignor to American Graphophone Company, Bridgeport, Conn. Dictaphone recorder and reproducer. No. 1,003,625; Sept. 19; Sp. p. 3138; Gaz. vol. 170; p. 566.
Macdonald, Thomas H., assignor to American Graphophone Company, Bridgeport, Conn. Positively-fed disk graphophone. No. 1,008,605; Nov. 14; Sp. p. 2216; Gaz. vol. 172; p. 378.
Macdonald Ticket and Ticket Box Company, The. (See Macdonald, Murdoch, assignor.)
Macdougall, William B., Overdale, Loughton, assignor of one-half to V. Nello, Loughton, England. Artist's studio-easel and the like. No. 1,002,167; Aug. 29; Sp. p. 6309; Gaz. vol. 169; p. 1140.
Macduffee, Chester E., New York, assignor of one-fifth to G. A. Traver, Brooklyn, one-fifth to J. P. Reid, New York, N. Y., one-fifth to J. L. Gordon, West Hoboken, N. J., and one-fifth to E. Meyer, Tuxedo, N. Y. Submarine armor. No. 989,530; Apr. 11; Sp. p. 2629; Gaz. vol. 165; p. 443.
Macduffee, Chester E., New York, assignor of one-fifth to G. A. Traver, Brooklyn, one-fifth to J. P. Reid, New York, N. Y., one-fifth to J. L. Gordon, West Hoboken, N. J., and one-fifth to E. Meyer, Tuxedo, N. Y. Attachment for submarine armor. No. 989,531; Apr. 11; Sp. p. 2638; Gaz. vol. 165; p. 443.
Macduffee, Chester E., New York, assignor of one-fifth to G. A. Traver, Brooklyn, one-fifth to J. P. Reid, New York, N. Y., one-fifth to J. L. Gordon, West Hoboken, N. J., and one-fifth to E. Meyer, Tuxedo, N. Y. Means for holding and conveying air-tubes and electric conductors to submarine divers. No. 989,532; Apr. 11; Sp. p. 2641; Gaz. vol. 165; p. 443.
Macduffee, Chester E., New York, assigner of one-fifth to G. A. Traver, Brooklyn, one-fifth to J. P. Reid, New York, N. Y., one-fifth to J. L. Gordon, West Hoboken, N. J., and one-fifth to E. Meyer, Tuxedo, N. Y. Valve for use with submarine diving apparatus. No. 989,533; Apr. 11; Sp. p. 2642; Gaz. vol. 165; p. 444.
Macduffee, Chester E., New York, assignor of one-fifth to G. A. Traver, Brooklyn, one-fifth to J. P. Reid, New York, N. Y., one-fifth to J. L. Gordon, West Hoboken, N. J., and one-fifth to E. Meyer, Tuxedo, N. Y. Submarine diving apparatus. No. 989,534; Apr. 11; Sp. p. 2644; Gaz. vol. 165; p. 444.
Mace, Tine H., Clarendon, Tex. Washing-machine. No. 1,007,585; Oct. 31; Sp. p. 6675; Gaz. vol. 171; p. 1202.
Macfarlane, James C., and H. Burge, assignors to Crompton and Company, Limited, Arc Works, Chelmsford, England. Electrical regenerative control apparatus and system. No. 980,979; Jan. 10; Sp. p. 1834; Gaz. vol. 162; p. 306.
Macfarlane, James C., and H. Burge, assignors to Crompton and Company Limited, Arc Works, Chelmsford, England. Electrical regenerative control apparatus and system. No. 998,364; July 18; Sp. p. 3866; Gaz. vol. 168; p. 686.
Macfarlane, Mary E., Vancouver, British Columbia, Canada. Child-carrier. No. 982,376; Jan. 24; Sp. p. 4866; Gaz. vol. 162; p. 842.
Macfarlane, Oswald, Toronto, Ontario, Canada. Grain-door. No. 1,001,871; Aug. 29; Sp. p. 5717; Gaz. vol. 169; p. 1045.
Macfarren, Walter W. (See Ingersoll and Macfarren.)
Machal, Karl. (See Jergle, Machal, and Heller.)
Machemer, William W. (See Shepherd, Edward S., assignor.)
Machen, Albert S., Norfolk, Va. Street-sweeper. No. 989,377; Apr. 11; Sp. p. 2300; Gaz. vol. 165; p. 389.
Machin, Herbert, assignor to The Kokomo Sanitary Manufacturing Co., Kokomo, Ind. Tank-cover fastener. No. 996,497; June 27; Sp. p. 5276; Gaz. vol. 167; p. 925.
Machlet, Adolph W., Elizabeth, N. J. Case-hardening. No. 944,322; June 6; Sp. p. 451; Gaz. vol. 167; p. 77.
Maciarz, Frank M., Marquette, Mich. Collar. No. 985,612; Feb. 28; Sp. p. 5119; Gaz. vol. 163; p. 905.
Maciejewski, Wladyslaw, Warsaw, Russia. Manufacturing corrugated tubes. No. 1,010,931; Dec. 5; Sp. p. 1180; Gaz. vol. 173; p. 186.
Mack, George, Elliston, Mont. Twist-drill gage. No. 989,857; Apr. 18; Sp. p. 3360; Gaz. vol. 165; p. 586.
Mack, Luther L., and R. D. Horton, Longbeach, assignors to General Appliance Manufacturing Company, Los Angeles, Cal. Automatically-operated illuminated advertiser. No. 992,366; May 16; Sp. p. 3324; Gaz. vol. 166; p. 598.
Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburg, Pa. Underreamer. No. 982,513; Jan. 24; Sp. p. 5163; Gaz. vol. 162; p. 890.
Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburg, Pa. Underreamer. No. 982,514; Jan. 24; Sp. p. 5166; Gaz. vol. 162; p. 891.
Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. No. 1,009,327; Nov. 21; Sp. p. 3802; Gaz. vol. 172; p. 662.
Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. No. 1,009,328; Nov. 21; Sp. p. 3805; Gaz. vol. 172; p. 662.
Mack, Perry E., Milwaukee, Wis. Oil-pump. No. 1,001,872; Aug. 29; Sp. p. 5719; Gaz. vol. 169; p. 1045.
Mack, Rudolph A., Gallipolis, Ohio. Automatic safety gas-lock. No. 1,008,839; Nov. 14; Sp. p. 2722; Gaz. vol. 172; p. 458.
Mack, William A., assignor to The Standard Sewing Machine Company, Cleveland, Ohio. Sewing-machine. No. 1,005,250; Oct. 10; Sp. p. 1466; Gaz. vol. 171; p. 267.
Mack, William J., assignor of one-half to C. D. Dillemuth, Buffalo, N. Y. Draft appliance for railway-cars. No. 995,474; June 20; Sp. p. 3005; Gaz. vol. 167; p. 536.
Mackay, Donald, Alloa, Scotland. Apparatus for indicating the weight of a vessel's cargo. No. 1,002,857; Sept. 12; Sp. p. 1500; Gaz. vol. 170; p. 265.
Mackay, Edmund. (See Ferrall and Mackay.)
Mackay, George, Jersey City, N. J. Binder. No. 1,005,444; Oct. 10; Sp. p. 1909; Gaz. vol 171; p. 337.
Mackay, Robert, Walthamstow, England. Steam-boiler. No. 982,733; Jan. 24; Sp. p. 5595; Gaz. vol. 162; p. 962.
Mackell, Thomas F. (See Branson, Quick, and Mackell.)
Mackeral, John K., and J. Cronin, Pittsburg, Pa. Metallic tie and fastener. No. 995,694; June 20; Sp. p. 3487; Gaz. vol. 167; p. 614.
Mackey, Andrew J., Telford, Tenn. Broom-hanger. No. 981,777; Jan. 17; Sp. p. 3563; Gaz. vol. 162; p. 605.
Mackey, James, Steamboat Springs, Colo. Rotary motor. No. 1,006,859; Oct. 24; Sp. p. 5079; Gaz. vol. 171; p. 895.
Mackey, James, Steamboat Springs, Colo. Wrench. No. 1,009,429; Nov. 21; Sp. p. 4056; Gaz. vol. 172; p. 699.
Mackey, John C., Detroit, Mich., assignor to Arbron Friction Gear Company. Friction transmission-gear. No. 1,011,217; Dec. 12; Sp. p. 1841; Gaz. vol. 173; p. 319.
Mackey, Nelson W., *et al.* (See Dann, Ernest G., assignor.)
Mackie, Edwin M. (See Thompson and Mackie.)
Mackie, Edwin M., and P. F. Doyle, Franklin, Pa., assignors to Chicago Pneumatic Tool Company, Chicago, Ill. Rock-drill mounting. No. 1,007,216; Oct. 31; Sp. p. 6881; Gaz. vol. 171; p. 1074.
Mackie-Lovejoy Manufacturing Company, The. (See Deknatel and Spruce, assignors.)
Mackie-Lovejoy Manufacturing Company. (See Spruce, Clifford J., assignor.)
Mackie, Matthew W. W., Ealing, England. Dynamo-electric machine for maintaining a constant electromotive force under variations of speed. No. 982,377; Jan. 24; Sp. p. 4867;; Gaz. vol. 162; p. 843.
Mackin, Alvie O., assignor to H. Marks and S. Helsel, Johnstown, Pa. Incandescent-lamp lock. No. 994,854; June 13; Sp. p. 1672; Gaz. vol. 167; p. 300.
Mackin, Francis J., San Francisco, Cal. Jar-closure. No. 1,010,285; Nov. 28; Sp. p. 5789; Gaz. vol. 172; p. 1031.
Mackintosh, A. L., *et al.* (See Kenney, Frank, assignor.)
Mackintosh, Edward D., assignor of one-half to S. S. Hepworth Company, New York, N. Y. Means for supporting and driving single-shaft centrifugal machines. No. 985,358; Feb. 28; Sp. p. 4546; Gaz. vol. 163; p. 816.
Mackintosh, Edward D., assignor of one-half to S. S. Hepworth Company, New York, N. Y. Motor-support. No. 1,011,129; Dec. 5; Sp. p. 1609; Gaz. vol. 173; p. 254.
Mackle, William J., St. Louis, Mo., assignor to The J. G. Brill Company, Philadelphia, Pa. Recording fare-box. No. 1,004,447; Sept. 26; Sp. p. 4967; Gaz. vol. 170; p. 874.
Macklin, Frank J., C. Harbison, and F. W. Trimmer, Columbus, Ohio. Sealing device. No. 985,914; Mar. 7; Sp. p. 335; Gaz. vol. 164; p. 54.
Macklind, William R., Mineral Point, Mo. Direct-heat drier. No. 1,001,659; Aug. 29; Sp. p. 5239; Gaz. vol. 169; p. 971.
Macklind, William R., Mineral Point, Mo. Rotary-disk drier. No. 1,001,660; Aug. 29; Sp. p. 5245; Gaz. vol. 169; p. 971.
Macklind, William R., Mineral Point, Mo. Centrifugal separator. No. 1,001,661; Aug. 29; Sp. p. 5251; Gaz. vol. 169; p. 972.
Maclaren, James G., Harrison, N. Y., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Pneumatic-despatch-tube apparatus. No. 992,223; May 16; Sp. p. 2943; Gaz. vol. 166; p. 547.
Maclean, David, Calexico, Cal. Compound hydro-steam engine. No. 991,074; May 2; Sp. p. 511; Gaz. vol. 166; p. 88.
Maclean, Ira V., assignor of one-fifth to W. C. Laiblin, Canton, Ohio. Continuous molding apparatus. No. 997,306; July 11; Sp. p. 1498; Gaz. vol. 168; p. 273.

Maclean, John. (See Curr, Thomas, Jr., assignor.)
Macmanus, Augustus F. W., U. S. Army. Flying-machine equilibrium apparatus. No. 1,002,067; Aug. 29; Sp. p. 6128; Gaz. vol. 169; p. 1107.
Macmanus, Augustus F. W., San Antonio, Tex. Aeroplane. No. 1,010,932; Dec. 5; Sp. p. 1182; Gaz. vol. 173; p. 186.
Macmanus, Augustus F. W., San Antonio, assignor of one-fourth to M. E. Macmanus, Corpus Christi, Tex. Equilibrium-retaining device for flying-machines. No. 1,010,286; Nov. 28; Sp. p. 5791; Gaz. vol. 172; p. 1031.
Macmanus, M. E. (See Macmanus, Augustus F. W., assignor.)
Macneale, Neil, assignor to The Toledo Electric Welder Company, Cincinnati, Ohio. Electrical welding. No. 990,489; Apr. 25; Sp. p. 4784; Gaz. vol. 165; p. 836.
Macom, John N., and L. B. Walker, Poplar Bluff, Mo. Goods-holder. No. 996,780; July 4; Sp. p. 358; Gaz. vol. 168; p. 61.
Macomb Poultry Supply Company. (See Brainard, Pearl H., assignor.)
Macomber, Herbert H., assignor to The Flint & Walling Mfg. Company, Kendallville, Ind. Windmill-lubricator. No. 982,840; Jan. 31; Sp. p. 5840; Gaz. vol. 162; p. 1028.
Macomber, Herbert H., assignor to Flint & Walling Manufacturing Company, Kendallville, Ind. Sink and pump support. No. 991,863; May 9; Sp. p. 2210; Gaz. vol. 166; p. 395.
Macomber, Sallie J., Jacksonville, Fla. Safety-tip for pin-points. No. 1,008,840; Nov. 14; Sp. p. 2723; Gaz. vol. 172; p. 458.
Macon, Alexander W., Moberly, Mo. Kitchen-cabinet. No. 984,951; Feb. 21; Sp. p. 3650; Gaz. vol. 163; p. 643.
Macon, Francis A., Henderson, N. C. Pneumatic tire. No. 997,398; July 11; Sp. p. 1672; Gaz. vol. 168; p. 303.
Maconochie, Jean W., Hyde Park, London, England, assignor of one-half to A. P. Duntley, Chicago, Ill. Cutlery-handle. No. 983,736; Feb. 7; Sp. p. 1025; Gaz. vol. 163; p. 164.
Macrae, Roderick, Chicago, Ill. Pilot-cell for electric storage batteries. No. 990,893; May 2; Sp. p. 139; Gaz. vol. 166; p. 26.
Macy, William H., and B. E. Wilbur, Miami, Okla. Bed-spring. No. 999,816; Aug. 8; Sp. p. 1231; Gaz. vol. 169; p. 241.
Madden, Albert F., Newark, N. J. Cyclometer. No. 1,010,654; Dec. 5; Sp. p. 559; Gaz. vol. 173; p. 89.
Madden, Albert F., Newark, N. J., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Separator for secondary storage batteries. No. 985,045; Feb. 21; Sp. p. 3831; Gaz. vol. 163; p. 676.
Madden, Augustine J., Caulfield, Victoria, Australia. Cleansing-filter. No. 992,512; May 16; Sp. p. 3614; Gaz. vol. 166; p. 649.
Madden, Charles F., Green Bay, Wis. Plumbing structure. No. 1,007,463; Oct. 31; Sp. p. 6392; Gaz. vol. 171; p. 1160.
Madden, Edwin L., Ingersoll, Okla. Airship. No. 981,778; Jan. 17; Sp. p. 3564; Gaz. vol. 162; p. 605.
Madden, Edwin L., Ingersoll, Okla. Flying-machine. No. 992,726; May 16; Sp. p. 4050; Gaz. vol. 166; p. 723.
Madden, Francis J., Duquesne, Pa. Headlight for vehicles. No. 983,630; Feb. 7; Sp. p. 802; Gaz. vol. 163; p. 128.
Madden, James F., and J. L. Crouse, Alexandria, Ind. Glove rack or holder. No. 982,216; Jan. 17; Sp. p. 4508; Gaz. vol. 162; p. 756.
Madden, Joseph, Dublin, Ireland. Revolving reversible seat. No. 1,007,217; Oct. 31; Sp. p. 5883; Gaz. vol. 171; p. 1074.
Madden, Thomas J., and J. M. Koehler, Cairo, Ill. Slack-adjuster. No. 982,616; Jan. 24; Sp. p. 5361; Gaz. vol. 162; p. 924.
Madderra, James S., Butler, Okla. Fish-hook. No. 989,717; Apr. 18; Sp. p. 3050; Gaz. vol. 165; p. 537.
Maddocks, Edward, Toronto, Ontario, assignor of one-half to J. McNair, Toronto, Canada. Pneumatic tread for boots and shoes. No. 1,011,460; Dec. 12; Sp. p. 2378; Gaz. vol. 173; p. 406.
Maddox, Charles W. (See Maddox, Stephen E. and C. W.)
Maddox, Ray. (See Mitts and Maddox.)
Maddox, Stephen E. and C. W., Aztec, N. Mex. Fruit-box press. No. 995,695; June 20; Sp. p. 3488; Gaz. vol. 167; p. 614.
Maddrell, Thomas J., assignor to The G. A. Swineford Company, Canton, Ohio. Hay-knife. No. 1,006,246; Oct. 17; Sp. p. 3705; Gaz. vol. 171; p. 651.
Madgett, Thomas H., Hamilton, Ontario, Canada. Liquid measuring and discharging device. No. 1,004,053; Sept. 26; Sp. p. 4119; Gaz. vol. 170; p. 740.
Madigan, Thomas J., New York, N. Y. Razor-blade holder. No. 1,009,329; Nov. 21; Sp. p. 3807; Gaz. vol. 172; p. 663.
Madigan, Virginia C., Columbus, Ohio. Ice-bag. No. 989,621; Apr. 18; Sp. p. 2855; Gaz. vol. 165; p. 505.
Madison, F. M., *et al.* (See Silva, Claude L., assignor.)
Madison, George A., St. Paul, Minn. Dispensing tooth-paste. No. 987,808; Mar. 28; Sp. p. 4239; Gaz. vol. 164; p. 788.
Madlehner, Jacob, Erie, Pa. Net-lifting machine. No. 980,650; Jan. 3; Sp. p. 1015; Gaz. vol. 162; p. 165.
Madlinger, Charles, *et al.* (See Woehler, Henry G., assignor.)
Madsen, Charles P., assignor to Pelouze Electric Heater Co., Chicago, Ill. Electric heater. No. 1,007,125; Oct. 31; Sp. p. 5668; Gaz. vol. 171; p. 1040.
Madsen, Christian, and A. A. Kollmorgen, Penn, N. D. Dairy-can. No. 986,074; Mar. 7; Sp. p. 681; Gaz. vol. 164; p. 109.
Madsen, Mads. (See Sorensen and Gilstrap, assignors.)
Madsen, Mads H., Kimballton, Iowa. Hay-handling mechanism. No. 981,094; Jan. 10; Sp. p. 2094; Gaz. vol. 162; p. 346.
Madsen, Mads S., Merna, Nebr. Harrow. No. 993,855; May 30; Sp. p. 6500; Gaz. vol. 166; p. 1171.
Madsen, Viggo M., Odense, Denmark. Apparatus for sale of tickets and the like. No. 1,003,116; Sept. 12; Sp. p. 2061; Gaz. vol. 170; p. 355.
Maenche, Albert T. (See Futterknecht, Roth, and Maenche.)
Maes, Ferdinand N. (See Sage and Maes.)
Mafera, Guy, Revere, Mass. Machine for cleaning wire goods. No. 1,012,385; Dec. 19; Sp. p. 4445; Gaz. vol. 173; p. 761.
Maffry, Edward F., Macon, Mo. Combined tying device and label-holder. No. 985,265; Feb. 28; Sp. p. 4350; Gaz. vol. 163; p. 786.
Magee, David F., Lancaster, Pa. Music-binder. No. 981,932; Jan. 17; Sp. p. 3954; Gaz. vol. 162; p. 661.
Magee, David F., Lancaster, Pa. Clock-controlled bell-striking mechanism. No. 993,453; May 30; Sp. p. 5630; Gaz. vol. 166; p. 1031.
Magee, Frank, assignor to H. E. Brisbin, Port Huron, Mich. Rein-driven pedal-propelled hobby-horse. No. 990,997; May 2; Sp. p. 357; Gaz. vol. 166; p. 61.
Magee, Frank, assignor to H. E. Brisbin, Port Huron, Mich. Rocking-horse. No. 991,334; May 2; Sp. p. 1093; Gaz. vol. 166; p. 182.
Magee, Frederick W., assignor of one-half to T. W. Baker, London, Ontario, Canada. Regulator for gas-stoves. No. 1,007,712; Nov. 7; Sp. p. 132; Gaz. vol. 172; p. 21.
Magee, Frederick W., assignor of one-half to T. W. Baker, London, Ontario, Canada. Inverted-arc gas-lamp. No. 1,007,713; Nov. 7; Sp. p. 134; Gaz. vol. 172; p. 22.
Maggio, Gioacchino, Chicago, Ill. Magazine-pistol. No. 980,980; Jan. 10; Sp. p. 1835; Gaz. vol. 162; p. 306.
Maggio, Paolo, New York, assignor of one-half to G. J. Liota, Brooklyn, N. Y. Vessel and other craft. No. 990,759; Apr. 25; Sp. p. 5373; Gaz. vol. 165; p. 927.
Maggiorani, Settimio, Rome, Italy. Lid for boxes, cases, &c. No. 982,436; Jan. 24; Sp. p. 4987; Gaz. vol. 162; p. 863.
Magill, Richard A., Atlanta, Ga. Guide for ruling-machines. No. 984,281; Feb. 14; Sp. p. 2250; Gaz. vol. 163; p. 380.
Magin, John G., assignor to Henry Conolly Company, Rochester, N. Y. Loose-leaf binder. No. 1,007,464; Oct. 31; Sp. p. 6394; Gaz. vol. 171; p. 1161.
Maginn, Madison, Chicago, Ill. Flexible car-wheel. No. 982,217; Jan. 17; Sp. p. 4509; Gaz. vol. 162; p. 756.
Maglenn, James, assignor of one-third to R. M. Bynum, Raleigh, N. C. Device for cleaning the threads of stuffing-boxes. No. 984,577; Feb. 21; Sp. p. 2880; Gaz. vol. 163; p. 513.
Magliocca, Erasmo, Woburn, Mass. Combined water-tower and fire-escape. No. 1,003,967; Sept. 19; Sp. p. 3891; Gaz. vol. 170; p. 683.
Maglone, John F., Providence, R. I. Neck scarf or tie. No. 1,007,465; Oct. 31; Sp. p. 6396; Gaz. vol. 171; p. 1161.
Magna, Russell W., Holyoke, Mass. Snap contact. No. 981,933; Jan. 17; Sp. p. 3955; Gaz. vol. 162; p. 661.
Magnée, Camille, Marcinelle-Charleroi, and E. Demeure, Brussels, Belgium. Device for increasing the efficiency of fuels. No. 985,188; Feb. 28; Sp. p. 4175; Gaz. vol. 163; p. 760.
Magni, Umberto, San Francisco, Cal. Wine-cooler. No. 1,000,530; Aug. 15; Sp. p. 2810; Gaz. vol. 169; p. 518.
Magnuson, Axel, New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Door-lock-operating apparatus. No. 998,624; July 25; Sp. p. 4403; Gaz. vol. 168; p. 806.
Magnuson, Frank, South Chicago, Ill. Scaffold. No. 1,000,738; Aug. 15; Sp. p. 3284; Gaz. vol. 169; p. 593.
Magnuson, Nels, assignor to The Packard Company, Fort Wayne, Ind. Automatic controlling mechanism. No. 1,005,251; Oct. 10; Sp. p. 1471; Gaz. vol. 171; p. 267.
Magoon, Edwin C., assignor, by mesne assignments, of one-half to J. P. Lieurance, Galesburg, Ill. Combined garden hoe and cultivator. No. 1,003,481; Sept. 19; Sp. p. 2817; Gaz. vol. 170; p. 515.
Magoon, Ezra P., assignor to Blue Flame Distillate Burner Company, Los Angeles, Cal. Oil-gas generator and burner. No. 995,362; June 13; Sp. p. 2756; Gaz. vol. 167; p. 469.
Magoris, James H. (See Klotz, Nickolas, assignor.)
Magowan, Frank A. (See Lambright, Grant, assignor.)
Magruder, Paul K., and J. Morey, San Antonio, Tex. Fireproof system. No. 985,189; Feb. 28; Sp. p. 4176; Gaz. vol. 163; p. 760.

Maguin, Alfred, Charmes, by La Fère, assignor to Société Duflos Freres, Vitry en Artois, and Société Anonyme des Etablissements A. Maguin, Charmes, Aisne, France. Root-cleaning machine. No. 989,915; Apr. 18; Sp. p. 3483; Gaz. vol. 165; p. 606.

Maguire, Francis J. W., and T. Lucier, Detroit, Mich. Clamp. No. 1,009,913; Nov. 28; Sp. p. 5017; Gaz. vol. 172; p. 905.

Maguire, George F. (See Condon, John E., assignor.)

Mahan, Charles, Baltimore, Md. Apparatus for coating candies with sugar. No. 1,012,877; Dec. 26; Sp. p. 5530; Gaz. vol. 173; p. 975.

Mahan, George H., Sandwich, Ill. Harrow attachment for plows. No. 983,382; Feb. 7; Sp. p. 269; Gaz. vol. 163; p. 45.

Mahan, James J., Jersey City, N. J. Toy. No. 1,007,218; Oct. 31; Sp. p. 5884; Gaz. vol. 171; p. 1074.

Mahana, Charles G., W. S. Hovey, and C. B. Stebbins, assignors to Sheffield Car Company, Three Rivers, Mich. Motor-car. No. 992,788; May 23; Sp. p. 4186; Gaz. vol. 166; p. 774.

Mahana, Charles G., W. S. Hovey, and C. B. Stebbins, assignors to The Sheffield Car Company, Three Rivers, Mich. Brake for railway motor-cars. No. 997,571; July 11; Sp. p. 2018; Gaz. vol. 168; p. 360.

Maher, David F., Watsonville, Cal. File-index book. No. 983,072; Jan. 31; Sp. p. 6369; Gaz. vol. 162; p. 1107.

Maher, Francis X., New York, N. Y. Shoe-protecting device. No. 994,593; June 6; Sp. p. 1017; Gaz. vol. 167; p. 170.

Maher, Harry E., Crookston, Minn. Spark-plug. No. 983,737; Feb. 7; Sp. p. 1026; Gaz. vol. 163; p. 164.

Maher, Harry E., Devils Lake, N. D. Spark-plug. No. 1,007,466; Oct. 31; Sp. p. 6397; Gaz. vol. 171; p. 1161.

Maher, John, Alpena, Mich. Automatic weighing-machine. No. 998,106; July 18; Sp. p. 3278; Gaz. vol. 168; p. 591.

Maher, John, assignor to Pooley Furniture Company, Philadelphia, Pa. Sanding-machine and the like. No. 994,594; June 6; Sp. p. 1019; Gaz. vol. 167; p. 170.

Maher, Michael R., Zanesville, Ohio. Vending-cabinet. No. 987,005; Mar. 14; Sp. p. 2620; Gaz. vol. 164; p. 453.

Mahle, John H., Blue Island, Ill. Mail-delivering apparatus. No. 1,000,829; Aug. 15; Sp. p. 3470; Gaz. vol. 169; p. 625.

Mahler, Henry, Westpoint, assignor of one-half to F. X. Rehberg, Beemer, Nebr. Plow. No. 999,817; Aug. 8; Sp. p. 1233; Gaz. vol. 169; p. 241.

Mahler, Louis J., Cincinnati, Ohio. Fountain-brush. No. 986,926; Mar. 14; Sp. p. 2478; Gaz. vol. 164; p. 429.

Mahler, Uhlich, San Francisco, Cal. Heel. No. 995,475; June 20; Sp. p. 3010; Gaz. vol. 167; p. 536.

Mahler, Uhlich, San Francisco, Cal. Heel. No. 1,008,841; Nov. 14; Sp. p. 2724; Gaz. vol. 172; p. 458.

Mahlow, William H., West Haven, Conn. Vehicle-tire. No. 1,003,280; Sept. 12; Sp. p. 2407; Gaz. vol. 170; p. 414.

Mahn, Bertram, Philadelphia, Pa. Smoking-pipe. No. 1,011,633; Dec. 12; Sp. p. 2817; Gaz. vol. 173; p. 469.

Mahon, John G., and C. E. Olschner; said Olschner assignor, by mesne assignments, to N. E. Laidacker, Beaumont, Tex. Post-hole auger. No. 983,455; Feb. 7; Sp. p. 427; Gaz. vol. 163; p. 68.

Mahone, Charles B., Los Angeles, Cal. Tax-receipt form. No. 999,818; Aug. 8; Sp. p. 1234; Gaz. vol. 169; p. 242.

Mahoney, Charles D. (See Willis and Mahoney.)

Mahoney, Daniel H., *et al.* (See Harper, Jacob P., assignor.)

Mahoney, George F., and T. L. Durant, Mountain Home, Idaho. Combined sage-brush cutting and lateral-ditching machine. No. 987,387; Mar. 21; Sp. p. 3442; Gaz. vol. 164; p. 616.

Mahoney, James H., Worcester, Mass. Flushing-valve. No. 986,478; Mar. 14; Sp. p. 1531; Gaz. vol. 164; p. 275.

Mahoney, Jeremiah L. (See Murray, James A., assignor.)

Mahoney, John J., assignor to The Cahill Iron Works, Chattanooga, Tenn. Dredger for powder-form material. No. 1,000,830; Aug. 15; Sp. p. 3477; Gaz. vol. 169; p. 626.

Mahoney, Joseph N., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Electromagnetic brake. No. 985,819; Mar. 7; Sp. p. 100; Gaz. vol. 164; p. 21.

Mahoney, Joseph N., Wilkinsburg, Pa., assignor, by mesne assignments, to The Westinghouse Air Brake Company. Vehicle braking system. No. 1,005,252; Oct. 10; Sp. p. 1475; Gaz. vol. 171; p. 268.

Mahoney, Joseph N., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Electric brake. No. 1,012,878; Dec. 26; Sp. p. 5531; Gaz. vol. 173; p. 976.

Mahoney, Joseph N., Wilkinsburg, and W. M. Austin, Swissvale, assignors to The Westinghouse Air Brake Company, Pittsburg, Pa. Electric brake. No. 997,458; July 11; Sp. p. 1777; Gaz. vol. 168; p. 323.

Mahoney, Patrick A., Portland, Me. Device for maintaining a uniform delivery of water under varying pressure. No. 1,007,714; Nov. 7; Sp. p. 138; Gaz. vol. 172; p. 22.

Mahoney, Thomas E., Bunker Hill, Kans., assignor of one-half to J. B. Bartholomew, Peoria, Ill. Feeding device for threshing-machines. No. 981,580; Jan. 10; Sp. p. 3158; Gaz. vol. 162; p. 515.

Mahr, Conrad A., Irvington, N. J. Combination sewing-material holder. No. 1,012,261; Dec. 19; Sp. p. 4195; Gaz. vol. 173; p. 719.

Mahurin, Sherman, Frankfort, S. D. Road-bed. No. 999,173; July 25; Sp. p. 5600; Gaz. vol. 168; p. 996.

Maib, Henry T., and E. O. Rowe, Spokane, Wash. Electric-car controller. No. 1,005,445; Oct. 10; Sp. p. 1910; Gaz. vol. 171; p. 337.

Maidhof, William J. F., New York, N. Y. Printing-form. No. 998,190; July 18; Sp. p. 3442; Gaz. vol. 168; p. 621.

Maidhof, William J. F., New York, N. Y. Printing-form. No. 1,003,482; Sept. 19; Sp. p. 2819; Gaz. vol. 170; p. 515.

Maier, Louis H., New York, N. Y. Automatic musical instrument. No. 992,018; May 9; Sp. p. 2510; Gaz. vol. 166; p. 447.

Maier, Louis H., New York, N. Y. Automatic musical instrument. No. 992,367; May 16; Sp. p. 3327; Gaz. vol. 166; p. 598.

Maier, Louis H., New York, N. Y. Valve for player-pianos and the like. No. 992,435; May 16; Sp. p. 3457; Gaz. vol. 166; p. 622.

Maier, Louis H., New York, N. Y. Automatic musical instrument. No. 1,003,483; Sept. 19; Sp. p. 2820; Gaz. vol. 170; p. 516.

Maier, Louis H., New York, N. Y. Expression device for musical instruments. No. 1,009,330; Nov. 21; Sp. p. 3808; Gaz. vol. 172; p. 663.

Maimin, Hyman, New York, N. Y. Cloth-cutting machine. No. 1,003,281; Sept. 12; Sp. p. 2408; Gaz. vol. 170; p. 414.

Maimin, Hyman, New York, N. Y. Cloth-cutting machine. No. 1,004,285; Sept. 26; Sp. p. 4634; Gaz. vol. 170; p. 820.

Main Belting Company. (See Plummer, George C., assignor.)

Main, John O., Bisbee, Ariz. Box-cover. No. 984,282; Feb. 14; Sp. p. 2251; Gaz. vol. 163; p. 380.

Main, William J., Westport, Conn., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Apparatus for registering sheets. No. 985,425; Feb. 28; Sp. p. 4701; Gaz. vol. 163; p. 838.

Main, William J., Westport, Conn., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Controlling device for inking and damping mechanisms. No. 999,510; Aug. 1; Sp. p. 624; Gaz. vol. 169; p. 108.

Maine Development Corporation. (See Goodyear, Nelson, assignor.)

Mainland, Hugh L., Burkes, near Dunedin, New Zealand. Animal-trap. No. 1,004,448; Sept. 26; Sp. p. 4970; Gaz. vol. 170; p. 874.

Mainland, Hugh L., Burkes, near Dunedin, New Zealand. Animal-trap. No. 1,012,386; Dec. 19; Sp. p. 4446; Gaz. vol. 173; p. 762.

Mains, Robert D., Council Bluffs, Iowa. Oil-burner. No. 1,008,347; Nov. 14; Sp. p. 1556; Gaz. vol. 172; p. 284.

Mair, William B., Springfield, Chelmsford, England. Diameter-gage. No. 1,008,842; Nov. 14; Sp. p. 2725; Gaz. vol. 172; p. 458.

Maire, Georges, Alexandria, Egypt. Trap for catching and destroying insects. No. 1,012,566; Dec. 19; Sp. p. 4797; Gaz. vol. 173; p. 824.

Mais, Albert F., Cleveland, Ohio. Power-transmitting mechanism. No. 981,934; Jan. 17; Sp. p. 3956; Gaz. vol. 162; p. 661.

Maisel, Conrad M., Buffalo, assignor of one-half to H. Stradtman, Sloan, N. Y. Rib-boner. No. 984,013; Feb. 14; Sp. p. 1664; Gaz. vol. 163; p. 287.

Maison, Cyril C., Cleveland, Ohio, assignor, by mesne assignments, to The Economy Switch Box & Mfg. Company. Switch box or receptacle. No. 982,841; Jan. 31; Sp. p. 5843; Gaz. vol. 162; p. 1029.

Maison, Edmund R., Mount Clemens, Mich. Barrel-liner. No. 1,011,979; Dec. 19; Sp. p. 3559; Gaz. vol. 173; p. 622.

Maize, Frank P., Newark, N. J. Sign for railway-cars, &c. No. 991,521; May 9; Sp. p. 1482; Gaz. vol. 166; p. 277.

Majestic Manufacturing Company. (See Persons, Crabtree, and Darling, assignors.)

Major, Lura S., Chicago, Ill., assignor to Marshall Field & Company. Automobile-headwear. No. 1,012,675; Dec. 26; Sp. p. 5039; Gaz. vol. 173; p. 905.

Major, William, *et al.* (See St. Peter, William, assignor.)

Maker, Elmer A., North Swansea, Mass. Folding crate. No. 990,367; Apr. 25; Sp. p. 4476; Gaz. vol. 165; p. 792.

Mako, Louis, Dayton, Ohio. Umbrella. No. 1,003,366; Sept. 12; Sp. p. 2579; Gaz. vol. 170; p. 444.

Malard, Georges, Tourcoing, France. Wool-washing machine. No. 989,622; Apr. 18; Sp. p. 2856; Gaz. vol. 165; p. 505.

Malboeuf, Sylva J. (See Krumhaar and Malboeuf.)

Malcher, Konrad, Gleiwitz, Germany. Tipping truck. No. 995,618; June 20; Sp. p. 3335; Gaz. vol. 167; p. 587.

Malcher, Konrad, Gleiwitz, Germany. Tip-truck. No. 1,010,655; Dec. 5; Sp. p. 562; Gaz. vol. 173; p. 89.

Malcolm, Carl E., St. Paul, Minn. Measuring-pole. No. 1,003,626; Sept. 19; Sp. p. 3140; Gaz. vol. 170; p. 566.

Alphabetical list of patentees—Continued.

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Malcolm, James, Holyoke, Mass. Police-leader. No. 980,651; Jan. 3; Sp. p. 1016; Gaz. vol. 162; p. 165.
Malcolm, Walter R., Albany, N. Y. Protecting-armor for pneumatic tires. No. 987,733; Mar. 28; Sp. p. 4178; Gaz. vol. 164; p. 763.
Malcolm, William E., Almena, Kans. Mail-carrier. No. 995,696; June 20; Sp. p. 3491; Gaz. vol. 167; p. 615.
Malcolmson, Charles T., Chicago, Ill. Briquet. No. 1,012,676; Dec. 26; Sp. p. 5040; Gaz. vol. 173; p. 905.
Malcom, Robert, Chicago, Ill. Eye-shield. No. 988,005; Mar. 28; Sp. p. 4810; Gaz. vol. 164; p. 857.
Malcomson, Richard H. (See Foss, Byron E., assignor.)
Maldino, Mark, Fort Worth, Tex. Lawn-mower. No. 990,998; May 2; Sp. p. 358; Gaz. vol. 166; p. 62.
Mali, Christian W., New Brighton, Pa. Drain-board. No. 994,855; June 13; Sp. p. 1675; Gaz. vol. 167; p. 300.
Maline, Joseph, St.-Ouen, Seine, France, assignor to E. W. Bliss Company, Brooklyn, N. Y. Machine for seaming can-tops. No. 1,000,100; Aug. 8; Sp. p. 1870; Gaz. vol. 169; p. 338.
Mallen, John J., Jacksonville, Ill. Display-rack. No. 993,532; May 30; Sp. p. 5799; Gaz. vol. 166; p. 1059.
Mallet, Arcade, Paris, France. Kinematographic apparatus. No. 983,073; Jan. 31; Sp. p. 6370; Gaz. vol. 162; p. 1107.
Mallett, Clarence T., Providence, assignor of one-half to A. Buzenac, East Providence, R. I. Alarm for drip-pans. No. 992,737; May 16; Sp. p. 4072; Gaz. vol. 166; p. 727.
Mallison, Harvey P., Lansdowne, assignor to D. F. Waters, Germantown, Pa. Dyeing-machine. No. 994,016; May 30; Sp. p. 6822; Gaz. vol. 166; p. 1224.
Mallman, James, Sheboygan, Wis. Adding type-writer. No. 999,664; Aug. 1; Sp. p. 918; Gaz. vol. 169; p. 160.
Mallmann, James, Sheboygan, Wis., and G. Browning, Chicago, Ill., assignors, by mesne assignments, to Standard Adding Machine Company, St. Louis, Mo. Calculating-machine. No. 980,652; Jan. 3; Sp. p. 1019; Gaz. vol. 162; p. 165.
Mallo, Michael E., Greeley, Colo. Carbureter. No. 1,009,252; Nov. 21; Sp. p. 3633; Gaz. vol. 172; p. 634.
Mallory, Bonnie L., assignor of one-third to F. C. Ellasser, Cleveland, Ohio. Joint for longitudinal members. No. 993,309; May 23; Sp. p. 5289; Gaz. vol. 166; p. 949.
Mallory, Edward B., Wilkinsburg, Pa. Refillable cartridge-fuse. No. 994,413; June 6; Sp. p. 649; Gaz. vol. 167; p. 111.
Mallory, Edward B., Wilkinsburg, Pa. Refillable cartridge-fuse. No. 1,005,253; Oct. 10; Sp. p. 1478; Gaz. vol. 171; p. 268.
Mallory, Harry B., assignor to E. A. Mallory and Sons, Incorporated, Danbury, Conn. Hat-tip-clipping machine. No. 998,191; July 18; Sp. p. 3443; Gaz. vol. 168; p. 621.
Mallory, Harry C., New York, N. Y. Thermostatically-controlled heating system. No. 988,725; Apr. 4; Sp. p. 942; Gaz. vol. 165; p. 150.
Mallory, Harry C., New York, N. Y. Heating apparatus. No. 988,726; Apr. 4; Sp. p. 943; Gaz. vol. 165; p. 150.
Mallory, Harry C., New York, N. Y. Heating apparatus. No. 988,727; Apr. 4; Sp. p. 948; Gaz. vol. 165; p. 151.
Mallory, John W., and W. C. Peters, Mineola, Tex. Machine-brake. No. 998,913; July 25; Sp. p. 5070; Gaz. vol. 168; p. 909.
Mallory, Milton M., Jeffersonville, Ind. Hammer attachment. No. 986,188; Mar. 7; Sp. p. 903; Gaz. vol. 164; p. 146.
Malloy, John J. (See Miller, Charles A., assignor.)
Malloy, Joseph E. (See McElaney and Malloy.)
Malloy, Michael J., Davenport, Iowa. Implement for corrugating plastic street-coverings. No. 993,086; May 23; Sp. p. 4844; Gaz. vol. 166; p. 879.
Mally, Frederick W. (See Hudson, Edwin P., assignor.)
Malmgren, Gustaf A., Aitkin, Minn. Milking-stool. No. 991,335; May 2; Sp. p. 1094; Gaz. vol. 166; p. 182.
Malmstrom, Herman C., Hallock, Minn. Cow-tail holder. No. 1,006,109; Oct. 17; Sp. p. 3365; Gaz. vol. 171; p. 600.
Malocsay, Francis X., Jersey City, N. J., assignor to W. H. Heulings, Jr., Philadelphia, Pa. Car. No. 988,363; Apr. 4; Sp. p. 151; Gaz. vol. 165; p. 27.
Malocsay, Francis X., Jersey City, N. J., assignor to W. H. Heulings, Jr., Philadelphia, Pa. Car. No. 990,574; Apr. 25; Sp. p. 4958; Gaz. vol. 165; p. 865.
Malocsay, Francis X., Jersey City, N. J., assignor to W. H. Heulings, Jr., Philadelphia, Pa. Car. No. 997,200; July 4; Sp. p. 1264; Gaz. vol. 168; p. 206.
Malone, Frank M., *et al.* (See Sanders, Joseph A., assignor.)
Malone, John. (See Tierney and Malone.)
Maloney, Charles F., Wheelock, N. D. Tender for traction-engines. No. 1,006,764; Oct. 24; Sp. p. 4855; Gaz. vol. 171; p. 862.
Maloney, Thomas. (See Tait and Maloney.)
Maloney, Thomas J., Jersey City, N. J. Tank-indicator. No. 1,012,677; Dec. 26; Sp. p. 5042; Gaz. vol. 173; p. 905.
Malooley, Martin J., *et al.* (See Miller, Robert I., assignor.)
Maloz, David H., *et al.* (See Hull, William J., assignor.)
Maloz, Walter C., *et al.* (See Hull, William J., assignor.)
Maloz, Walter C., Patterson, La. Permutation-padlock. No. 999,460; Aug. 1; Sp. p. 523; Gaz. vol. 169; p. 92.
Maltitz, Edmund von, and H. B. Barnhart, Chicago, Ill. Gas-producing furnace. No. 988,580; Apr. 4; Sp. p. 629; Gaz. vol. 165; p. 101.
Maly, John, New York, N. Y. Boat. No. 1,012,678; Dec. 26; Sp. p. 5044; Gaz. vol. 173; p. 906.
Mamaux, Eugene A., Pittsburg, Pa. Waterproof diamond-cover for base-ball fields. No. 987,635; Mar. 21; Sp. p. 3933; Gaz. vol. 164; p. 700.
Mammoth Manufacturing Company. (See Bade, Charles W., assignor.)
Mancini, Victor, Granville, N. Y. Tire-chain. No. 998,366; July 18; Sp. p. 3871; Gaz. vol. 168; p. 687.
Manderbach, Albert, Culbertson, Mont. Hinge. No. 1,006,765; Oct. 24; Sp. p. 4857; Gaz. vol. 171; p. 862.
Manderville, P. R., *et al.* (See Cumley, John W., assignor.)
Mandeville, James L., Hatcher Station, Ga. Cover and strainer retaining device for churns. No. 988,796; Apr. 4; Sp. p. 1086; Gaz. vol. 165; p. 173.
Mandley, William J., Shelburne, Ontario, Canada. Grinder. No. 995,071; June 13; Sp. p. 2153; Gaz. vol. 167; p. 373.
Mandula, August L., assignor to P. Mandula, Streator, Ill. Combination-lock. No. 1,012,388; Dec. 19; Sp. p. 4451; Gaz. vol. 173; p. 762.
Mandula, Paulina. (See Mandula, August L., assignor.)
Maneas, Manuel J. (See Alfier and Maneas.)
Manes, John, San Francisco, Cal. Track-scale. No. 998,540; July 18; Sp. p. 4201; Gaz. vol. 168; p. 744.
Maney Manufacturing Company. (See Gerrer, John H., assignor.)
Mangan, Michael R., and F. B. Bosnic, New York, N. Y. Bed-spring fabric. No. 989,916; Apr. 18; Sp. p. 3486; Gaz. vol. 165; p. 606.
Manganese Steel Rail Company. (See Potter, Winfield S., assignor.)
Mangels, William F., New York, N. Y. Amusement apparatus. No. 991,336; May 2; Sp. p. 1096; Gaz. vol. 166; p. 183.
Mangels, William F., New York, N. Y. Mechanical toboggan-slide. No. 997,071; July 4; Sp. p. 1014; Gaz. vol. 168; p. 162.
Mangels, William F., New York, N. Y. Means for teaching aviation and testing aeroplanes. No. 1,007,467; Oct. 31; Sp. p. 6398; Gaz. vol. 171; p. 1162.
Mangelsdorff, Frederick W., Milwaukee, Wis. Filter. No. 1,011,130; Dec. 5; Sp. p. 1609; Gaz. vol. 173; p. 254.
Mangum, Zachariah, Silver Spring, Md. Overshoe for horses. No. 991,864; May 9; Sp. p. 2211; Gaz. vol. 166; p. 395.
Manhattan Electrical Supply Company. (See Avery, Charles E., assignor.)
Manhire, William, assignor to S. G. Porter, Denver, Colo. Furnace. No. 996,868; July 4; Sp. p. 558; Gaz. vol. 168; p. 91.
Manierre, Arthur. (See Tevander and Manierre.) (Reissue.)
Manierre, George. (See Ticknor and Manierre.)
Mann, Albert, Philadelphia, Pa. Driving and lay motion for looms. No. 1,006,110; Oct. 17; Sp. p. 3366; Gaz. vol. 171; p. 601.
Mann, Arthur S., Schenectady, N. Y. Device for measuring gases. No. 996,498; June 27; Sp. p. 5277; Gaz. vol. 167; p. 925.
Mann, Charles A., assignor of one-half to H. D. Crane, Cincinnati, Ohio. Machine for honing razors. No. 991,865; May 9; Sp. p. 2212; Gaz. vol. 166; p. 395.
Mann, Elias S., Springfield, Ill. Quilting-frame. No. 994,526; June 6; Sp. p. 884; Gaz. vol. 167; p. 147.
Mann, Frederick W., Franklin, Pa. Smoke-meter. No. 1,002,717; Sept. 5; Sp. p. 1200; Gaz. vol. 170; p. 179.
Mann, Horace. (See Morton and Mann.)
Mann, Horace A., assignor of one-half to T. H. Rowland, Oberlin, Ohio. Walking manikin. No. 1,008,348; Nov. 14; Sp. p. 1558; Gaz. vol. 172; p. 285.
Mann, James H. (See Alexander, Elmer P., assignor.)
Mann, John E. (See Mann, Oscar F., assignor.)
Mann, John P. (See Smith and Mann.)
Mann, John W. (See Krueger and Mann.)
Mann, Miles H., assignor to Buffum Tool Company, Louisiana, Mo. Printing-machine. No. 982,515; Jan. 24; Sp. p. 5169; Gaz. vol. 162; p. 891.
Mann, Orville C., Oak Park, Ill. Railway snow-plow. No. 1,007,365; Oct. 31; Sp p. 6183; Gaz. vol. 171; p. 1127.
Mann, Oscar F., assignor to J. E. Mann, Memphis, Tenn. Hanger. No. 1,005,860; Oct. 17; Sp. p. 2826; Gaz. vol. 171; p. 514.
Mann, Peter J., Pittsburgh, Pa. Street or station indicator. No. 1,009,253; Nov. 21; Sp. p. 3635; Gaz. vol. 172; p. 634.
Mann, William L., St. Joseph, Mo. Power-transmitting mechanism. No. 1,009,846; Nov. 28; Sp. p. 4894; Gaz. vol. 172; p. 884.
Mannesmann, Otto, Remscheid, Germany. Incandescent gas-burner. No. 981,779; Jan. 17; Sp. p. 3566; Gaz. vol. 162; p. 606.

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Manning, Bowman & Company. (See Savage, George E., assignor.)
Manning, Fred, Dietz, Wyo. Windmill. No. 994,765; June 13; Sp. p. 1469; Gaz. vol. 167; p. 270.
Manning, Harry D., Newcastle, Ind., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Temporary binder or loose-sheet holder. No. 1,002,291; Sept. 5; Sp. p. 239; Gaz. vol. 170; p. 32.
Manning, Isaac B. (See Mulroney and Manning.)
Manning, James F., and A. A. Denslinger, Philadelphia, Pa. Shoe-finishing machine. No. 1,011,461; Dec. 12; Sp. p. 2379; Gaz. vol. 173; p. 406.
Manning, Thomas S. (See Branstetter, Hugh L., assignor.)
Manning, William H., Malden, Mass. Artificial limb. No. 1,005,254; Oct. 10; Sp. p. 1481; Gaz. vol. 171; p. 269.
Manning, William L., Wilson, N. C. Spring-gear for vehicles. No. 992,569; May 16; Sp. p. 3743; Gaz. vol. 166; p. 670.
Mannooch, Charles W., Fitzgerald, Ga. Locomotive-valve. No. 990,057; Apr. 18; Sp. p. 3778; Gaz. vol. 165; p. 653.
Manny, Fred L., Benton Harbor, Mich., assignor to Metal Sectional Furniture Company, Portland, Me. Temporary binder. No. 1,012,090; Dec. 19; Sp. p. 3817; Gaz. vol. 173; p. 661.
Manny, Ira F., assignor to Selective Signal Company, Milwaukee, Wis. Selective signaling means. No. 986,639; Mar. 14; Sp. p. 1867; Gaz. vol. 164; p. 332.
Manny, Ira F., assignor to Selective Signal Company, Milwaukee, Wis. Selective signaling apparatus. No. 995,619; June 20; Sp. p. 3336; Gaz. vol. 167; p. 588.
Manoog, Manoog T., Brockton, Mass. Belt. No. 984,099; Feb. 14; Sp. p. 1843; Gaz. vol. 163; p. 317.
Manoury, Henry A. J., Paris, France. Manufacture of sugar. No. 984,578; Feb. 21; Sp. p. 2882; Gaz. vol. 163; p. 514.
Mansell, George L., Chicago, Ill. Stovepipe-thimble. No. 995,020; June 13; Sp. p. 2033; Gaz. vol. 167; p. 356.
Mansell, Hunt, Catty and Company. (See Stratton, Egbert A., assignor.)
Mansfield, Charles L., and R. E. Matthews, San Angelo, Tex. Wrench. No. 982,617; Jan. 24; Sp. p. 5363; Gaz. vol. 162; p. 925.
Mansfield, Mendocino, King City, Cal. Watering-trough. No. 1,000,531; Aug. 15; Sp. p. 2811; Gaz. vol. 169; p. 519.
Mansfield, Roger, Boston, Mass. Wheel-scraping implement. No. 993,087; May 23; Sp. p. 4844; Gaz. vol. 166; p. 879.
Mansfield, Roger, Boston, Mass. Balancing device for scale-beams. No. 1,012,262; Dec. 19; Sp. p. 4196; Gaz. vol. 173; p. 720.
Manshel, Charles, Providence, R. I. Ticket-printing device. No. 993,533; May 30; Sp. p. 5800; Gaz. vol. 166; p. 1060.
Manson, Albert, Paris, France. Gripping device for securing auxiliary or spare rims to automobile-wheels. No. 1,012,879; Dec. 26; Sp. p. 5535; Gaz. vol. 173; p. 976.
Manson, George J., Thorold, Ontario, Canada. Rotary distributing member for centrifugal machines. No. 1,010,161; Nov. 28; Sp. p. 5530; Gaz. vol. 172; p. 990.
Manson, James A., Springfield, Mass. Machine for bagging charcoal. No. 993,696; May 30; Sp. p. 6179; Gaz. vol. 166; p. 1117.
Manson, James A., Springfield, Mass. Weighing-machine. No. 995,021; June 13; Sp. p. 2034; Gaz. vol. 167; p. 356.
Manson, John A., Bridgeport, Conn. Card-holder. No. 983,383; Feb. 7; Sp. p. 272; Gaz. vol. 163; p. 46.
Manson, Louis H., and B. B. Blood, assignors to E. H. Ziegler, Chicago, Ill. Bed construction. No. 1,003,188; Sept. 12; Sp. p. 2210; Gaz. vol. 170; p. 380.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Intercommunicating telephone system. No. 984,686; Feb. 21; Sp. p. 3116; Gaz. vol. 163; p. 552.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Party-line ringing-key. No. 985,820; Mar. 7; Sp. p. 102; Gaz. vol. 164; p. 22.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Electrical terminal connector. No. 985,821; Mar. 7; Sp. p. 104; Gaz. vol. 164; p. 22.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Telephone-exchange system. No. 998,705; July 25; Sp. p. 4579; Gaz. vol. 168; p. 834.
Manson, Ray H., assignor to The Dean Electric Company, Elyria, Ohio. Telephone system. No. 1,009,762; Nov. 28; Sp. p. 4726; Gaz. vol. 172; p. 856.
Manson, Ray H., assignor to Dean Electric Company, Elyria, Ohio. Telephone system. No. 1,010,505; Dec. 5; Sp. p. 244; Gaz. vol. 173; p. 38.
Mansur, Clarence W., Lynn, Mass., assignor to General Electric Company. Locking device for arc-lamp hangers. No. 1,006,766; Oct. 24; Sp. p. 4858; Gaz. vol. 171; p. 862.
Mantel Machinery and Patents Company. (See Cohn, Samuel, assignor.)
Manteufel, Otto C., Milwaukee, Wis. Bill-book and record binder. No. 982,842; Jan. 31; Sp. p. 5844; Gaz. vol. 162; p. 1029.
Mantey, Karl, Eustis, Fla. Cabinet. No. 992,019; May 9; Sp. p. 2512; Gaz. vol. 166; p. 447.
Mantle & Co. (See Mantle, Joseph G. C., assignor.)
Mantle, Joseph G. C., assignor to Mantle & Co., New York, N. Y. Coin-controlled vending-machine. No. 987,636; Mar. 21; Sp. p. 3934; Gaz. vol. 164; p. 701.
Mantle Lamp Company of America, The. (See Smith, Charles H., assignor.)
Manton-Gaulin Manufacturing Company. (See Wood, Edward C., assignor.)
Manufacture Lyonnaise de Matieres Colorantes. (See Rosenhek, Mirocourt, and Loup, assignors.)
Manufacturers' Brush Company, The. (See Radinse, Rudolf, assignor.)
Manufacturers Equipment Company. (See Theis, William J., assignor.)
Manufacturing Company of America. (See Wootten, Charles T., assignor.)
Manville, George W., Towanda, Pa. Spark-plug connector and switch. No. 983,738; Feb. 7; Sp. p. 1027; Gaz. vol. 163; p. 164.
Many, Robert, *et al.* (See Bundy, Henry C., assignor.)
Many, Robert. (See Hart, Milton H., assignor.)
Manz, James V., Brooklyn, N. Y. Compass-ruler. No. 983,830; Feb. 7; Sp. p. 1237; Gaz. vol. 163; p. 197.
Manzel, Charles W., assignor, by mesne assignments, to J. L. Osgood, Buffalo, N. Y. Lubricator. No. 1,003,189; Sept. 12; Sp. p. 2211; Gaz. vol. 170; p. 380.
Mapes, George. (See McDonald and Mapes.)
Maple, Warren H., and O. F. Turner, Pendleton, Oreg., assignors to Winchester Repeating Arms Co., New Haven, Conn. Automatic cartridge-register. No. 982,618; Jan. 24; Sp. p. 5365; Gaz. vol. 162; p. 925.
Marak, Francis, National Military Home, Kans. Attachment for sewing-machines. No. 982,619; Jan. 24; Sp. p. 5366; Gaz. vol. 162; p. 925.
Marble, Edwin H., assignor to Curtis & Marble Machine Company, Worcester, Mass. Float-thread cutter. No. 1,002,415; Sept. 5; Sp. p. 537; Gaz. vol. 170; p. 76.
Marble, Webster L., Gladstone, Mich. Lock for multi-barreled guns. No. 982,150; Jan. 17; Sp. p. 4382; Gaz. vol. 162; p. 733.
Marble, Webster L., Gladstone, Mich. Rear sight. No. 982,151; Jan. 17; Sp. p. 4383; Gaz. vol. 162; p. 733.
Marble, Webster L., Gladstone, Mich. Hammer for double-barreled guns. No. 982,152; Jan. 17; Sp. p. 4385; Gaz. vol. 162; p. 733.
Marble, Webster L., Gladstone, Mich. Means for attaching supplemental barrels to firearms. No. 990,575; Apr. 25; Sp. p. 4961; Gaz. vol. 165; p. 866.
Marble, Webster L., Gladstone, Mich. Supplemental barrel for magazine-firearms. No. 1,009,161; Nov. 21; Sp. p. 3396; Gaz. vol. 172; p. 601.
Marcante, Antonio, Summit, N. J. Safety device for watches. No. 992,368; May 16; Sp. p. 3330; Gaz. vol. 166; p. 599.
March, George E., and W. L. Tenny, Muskegon Heights, Mich. Drinking-fountain. No. 992,436; May 16; Sp. p. 3459; Gaz. vol. 166; p. 622.
Marchand, Alexis, assignor of one-third to E. A. Freeman and one-third to H. R. Bankerd, Bridgeport, Wash. Can-opener. No. 1,012,880; Dec. 26; Sp. p. 5536; Gaz. vol. 173; p. 976.
Marchand, Louis, Jr., Pittsburg, Pa. Fastening for the ends of wire cables. No. 985,915; Mar. 7; Sp. p. 337; Gaz. vol. 164; p. 54.
Marchant, Rodney H., Oakland, Cal. Calculating-machine. No. 994,414; June 6; Sp. p. 651; Gaz. vol. 167; p. 111.
Marchant, William E., Detroit, assignor of one-half to R. H. Martin, Mount Clemens, Mich. Speed-limiting device for motor-vehicles. No. 994,415; June 6; Sp. p. 653; Gaz. vol. 167; p. 111.
Marche, Henri, Fournies, France. Manufacture of velvet, plush, carpet, imitation fur, and the like. No. 1,012,389; Dec. 19; Sp. p. 4453; Gaz. vol. 173; p. 763.
Marchese, Charles, and F. C. Toscano, Los Banos, Cal. Oil-burner. No. 1,008,843; Nov. 14; Sp. p. 2728; Gaz. vol. 172; p. 459.
Marcks, John R., Surabaya, Java. Roller for cane-mills. No. 998,367; July 18; Sp. p. 3871; Gaz. vol. 168; p. 687.
Marconi, Guglielmo, London, England, assignor to Marconi Wireless Telegraph Company of America, New York, N. Y. Transmitting apparatus for wireless telegraphy. No. 997,308; July 11; Sp. p. 1508; Gaz. vol. 168; p. 274.
Marconi Wireless Telegraph Company of America. (See Marconi, Guglielmo, assignor.)
Marconini, Antoni F., Victoria, British Columbia, Canada. Tool-holder. No. 980,309; Jan. 3; Sp. p. 244; Gaz. vol. 162; p. 46.
Marcus, Hermann, Cologne, Germany. Conveying-channel. No. 988,644; Apr. 4; Sp. p. 763; Gaz. vol. 165; p. 122.
Marcy, Grosvenor D., Dorchester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for cutting leather. No. 1,007,126; Oct. 31; Sp. p. 5673; Gaz. vol. 171; p. 1041.
Marcy, Herbert E., assignor of one-fourth to G. Nusskern, three-eighths to A. Benkert, and three-eighths to W. H. Pease, Mount Vernon, N. Y. Illuminating device. No. 998,021; July 18; Sp. p. 3079; Gaz. vol. 168; p. 561.
Marden, Harry G. (See Wood and Marden.)

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Marelli, Ercole, Milan, Italy. Induction-motor. No. 1,002,718; Sept. 5; Sp. p. 1203; Gaz. vol. 170; p. 180.
Mares, Charles, Wheaton, Ill. Pipe-elbow. No. 997,072; July 4; Sp. p. 1017; Gaz. vol. 168; p. 163.
Marfield, Dwight S. (See Bentler, John W., assignor.)
Marfield, Dwight S., *et al.* (See Marfield, Paul B., assignor.)
Marfield, Paul B., assignor of one-fourth to D. S. Marfield and one-fourth to N. P. Riley, Cincinnati, Ohio. Friction-clutch. No. 981,295; Jan. 10; Sp. p. 2565; Gaz. vol. 162; p. 418.
Margewood Locks Limited. (See Phillips, Albert, assignor.)
Marguerat, W. A., *et al.* (See Dann, Ernest G., assignor.)
Marguerat, William A. (See Stark, Michael J., Jr., assignor.)
Marine Air-Pulsion Company, The. (See Schroeder, Frederick W., assignor.)
Marine Producer Gas Power Company. (See Pettibone and Straub, assignors.)
Mariner, George E., Shenandoah, Iowa. Corn-husking implement. No. 994,856; June 13; Sp. p. 1676; Gaz. vol. 167; p. 300.
Marinsky, Davis, New York, N. Y. Hair-curling device. No. 983,074; Jan. 31; Sp. p. 6371; Gaz. vol. 162; p. 1107.
Marinsky, Davis, New York, N. Y. Collar-support. No. 989,858; Apr. 18; Sp. p. 3361; Gaz. vol. 165; p. 586.
Marinsky, Davis, New York, N. Y. Spool-holder. No. 1,001,662; Aug. 29; Sp. p. 5255; Gaz. vol. 169; p. 672.
Marinsky, Davis, New York, N. Y. Means for securing ornaments to articles of apparel. No. 1,006,575; Oct. 24; Sp. p. 4469; Gaz. vol. 171; p. 798.
Marion Machinery Foundry and Supply Company. (See Chamberlin, Charles C., assignor.)
Marion Steam Shovel Company, The. (See Barnhart and Gracely, assignors.)
Marion Steam Shovel Company, The. (See King, Barnhart, and King, assignors.)
Marion, Thomas J., Trenton, N. J. Car-fender. No. 991,732; May 9; Sp. p. 1955; Gaz. vol. 166; p. 351.
Maris, Joseph G., Columbus, Ohio. Airship. No. 1,005,988; Oct. 17; Sp. p. 3115; Gaz. vol. 171; p. 560.
Mark, Friedrich aus der, Sterkrade, Germany. Leveling apparatus for horizontal coke-ovens. No. 985,266; Feb. 28; Sp. p. 4351; Gaz. vol. 163; p. 786.
Mark, John H., Montezuma, Ind. Screw-power brake for vehicles. No. 980,310; Jan. 3; Sp. p. 245; Gaz. vol. 162; p. 47.
Mark, Samuel E., Coatesville, Ind. Lightning-arrester. No. 1,004,286; Sept. 26; Sp. p. 4636; Gaz. vol. 170; p. 820.
Markel, Charles, Clinton, Iowa. Connecting-rod. No. 1,010,287; Nov. 28; Sp. p. 5792; Gaz. vol. 172; p. 1037.
Markel, Harley R., Columbus, Ohio. Insulator. No. 992,570; May 16; Sp. p. 3745; Gaz. vol. 166; p. 670.
Markham, Charles E., assignor of one-third to W. C. McKenzie and one-third to T. W. Ivy, Williamsville, Mo. Concrete tie. No. 1,002,719; Sept. 5; Sp. p. 1204; Gaz. vol. 170; p. 180.
Markham, Romondo D., Chicago, Ill. Short-circuiting locking device for automobiles. No. 988,479; Apr. 4; Sp. p. 405; Gaz. vol. 165; p. 65.
Markin, Amon, Montpelier, Ind. Push-pole. No. 1,003,056; Sept. 12; Sp. p. 1923; Gaz. vol. 170; p. 332.
Markland, Wyllis H., Altoona, Pa. Metal-boring apparatus. No. 1,012,091; Dec. 19; Sp. p. 3818; Gaz. vol. 173; p. 662.
Markle, Clayton N. (See Leftwich and Markle.)
Markley, Arthur R., Estherville, Iowa, Disk-scraper. No. 990,576; Apr. 25; Sp. p. 4962; Gaz. vol. 165; p. 866.
Markley, David A., Tripp, S. D. Pipe tapping and plugging device. No. 1,007,882; Nov. 7; Sp. p. 538; Gaz. vol. 172; p. 82.
Markley, Henry H. (See Mellinger and Markley.)
Markó, Louis. (See Gawenda and Markó.)
Markovitz, Harry, Braddock, Pa. Milk-can lock. No. 1,004,449; Sept. 26; Sp. p. 4973; Gaz. vol. 170; p. 875.
Markowitz, Benjamin, assignor to American Steel Frame & Band Iron Company, New York, N. Y. Handle. No. 1,000,739; Aug. 15; Sp. p. 3285; Gaz. vol. 169; p. 594.
Markowski, John, and I. Krekowsky, Milwaukee, Wis. Sad-iron attachment for gas-stoves. No. 982,378; Jan. 24; Sp. p. 4871; Gaz. vol. 162; p. 843.
Marks, Arthur H., Akron, Ohio. Vehicle-tire. No. 1,001,663; Aug. 29; Sp. p. 5257; Gaz. vol. 169; p. 973.
Marks, August. (See Addicks and Marks.)
Marks, Charles J., assignor, by mesne assignments, to The Perfect Bottle Cap Company, Baltimore, Md. Machine for sealing bottles. No. 990,820; Apr. 25; Sp. p. 5502; Gaz. vol. 165; p. 948.
Marks, Don O., Los Angeles, Cal., assignor of one-half to L. S. Atkinson, Colorado Springs, Colo. Centrifugal-impact pulverizer. No. 982,516; Jan. 24; Sp. p. 5171; Gaz. vol. 162; p. 891.
Marks, Don O., assignor to The Marks Pulverizing, Mining and Milling Machinery Co., Denver, Colo. Centrifugal impact pulverizing apparatus. No. 994,596; June 6; Sp. p. 1025; Gaz. vol. 167; p. 171.
Marks, Harry, *et al.* (See Mackin, Alvie O., assignor.)
Marks, Herbert E., and E. C. Roberts, Wheeling, W. Va., assignors, by mesne assignments, to J. B. Haines, Jr., Pittsburgh, Pa. Stud or partition construction. No. 1,011,218; Dec. 12; Sp. p. 1844; Gaz. vol. 173; p. 319.
Marks, Mose, Lemon Cove, Cal. Neck-yoke center. No. 992,020; May 9; Sp. p. 2513; Gaz. vol. 166; p. 447.
Marks Pulverizing, Mining and Milling Machinery Co., The. (See Marks, Donn O., assignor.)
Márkus, George, Stonega, Va. Bedstead. No. 1,008,168; Nov. 7; Sp. p. 1103; Gaz. vol. 172; p. 181.
Markus, John, Manchester, England. Forming articles from waste rubber. No. 999,819; Aug. 8; Sp. p. 1236; Gaz. vol. 169; p. 242.
Marles, Henry, Manor Park, England. Vessel and the closure thereof. No. 1,012,390; Dec. 19; Sp. p. 4454; Gaz. vol. 173; p. 763.
Marley, Albe R., Clayton, and E. H. Little, Greencastle, assignors of one-half to J. A. Minturn and F. W. Woerner, Indianapolis, Ind. Preparing killed fowls for food. No. 1,011,131; Dec. 5; Sp. p. 1611; Gaz. vol. 173; p. 255.
Marlin Firearms Company, The. (See Wheeler, Beck, and Hepburn, assignors.)
Marmion, Fernand, Paris, France. Electric contacts under carpets and the like for alarm-signals and other purposes. No. 1,003,145; Sept. 12; Sp. p. 2110; Gaz. vol. 170; p. 363.
Marot, René, Paris, France. Apparatus for removing fiber from cocoanuts or the like. No. 983,631; Feb. 7; Sp. p. 803; Gaz. vol. 163; p. 128.
Marot, René, Paris, France. Preserving fish. No. 991,337; May 2; Sp. p. 1098; Gaz. vol. 166; p. 183.
Marpal Limited. (See Palmer, Walter H., assignor.)
Marple, David S., Osborne, Kans. Automatic gas cut-off. No. 1,003,282; Sept. 12; Sp. p. 2411; Gaz. vol. 170; p. 414.
Marquart, Charles V., Sandusky, Ohio. Brake-beam. No. 994,323; June 6; Sp. p. 455; Gaz. vol. 167; p. 78.
Marquette, George E., Larchwood, Iowa. Steering-gear. No. 988,121; Mar. 28; Sp. p. 5044; Gaz. vol. 164; p. 895.
Marquette Piano Company. (See Larson, Axel F., assignor.)
Marquis, Joseph L., Buffalo, N. Y. Blue-print machine. No. 1,013,033; Dec. 26; Sp. p. 5876; Gaz. vol. 173; p. 1027.
Marquis, Samuel, Middleburg, Ohio. Evener. No. 988,797; Apr. 4; Sp. p. 1087; Gaz. vol. 165; p. 173.
Marr, Walter L., Flint, Mich. Distributer for electric ignition systems. No. 995,697; June 20; Sp. p. 3493; Gaz. vol. 167; p. 615.
Marrington, Frank J., Fort Dodge, Iowa. Switch for sparking devices. No. 1,009,162; Nov. 21; Sp. p. 3398; Gaz. vol. 172; p. 601.
Marrone, Michael, assignor to L. Fucito, New York, N. Y. Chopper and disintegrator. No. 995,545; June 20; Sp. p. 3155; Gaz. vol. 167; p. 561.
Marsac, Gustave de. (See Nauton, de Marsac, and Tesse.)
Marsch, Adolf, Gera-Reuss, Germany. Contrivance for preserving the ashes of cremated bodies. No. 991,866; May 9; Sp. p. 2215; Gaz. vol. 166; p. 396.
Marsch, Jacob P., Marietta, Ohio. Fruit cutter and pitter. No. 1,006,491; Oct. 24; Sp. p. 4264; Gaz. vol. 171; p. 766.
Marschall, Johannes, Dresden, Germany. Thermo-electric battery. No. 985,426; Feb. 28; Sp. p. 4704; Gaz. vol. 163; p. 838.
Marschik, Samuel, Brünn, Austria-Hungary. Wage-registering apparatus for mechanical looms. No. 988,957; Apr. 4; Sp. p. 1389; Gaz. vol. 165; p. 223.
Marschik, Samuel, Brünn, Austria-Hungary. Wage-registering apparatus for mechanical looms. No. 994,416; June 6; Sp. p. 655; Gaz. vol. 167; p. 112.
Marschik, Samuel, Brünn, Austria-Hungary. Wage-registering apparatus for mechanical looms and similar textile-machines. No. 1,002,720; Sept. 5; Sp. p. 1205; Gaz. vol. 170; p. 180.
Marschuetz, Oscar H., W. G. Probst, Louisville, Ky., and J. C. Reed, Allegheny, assignors to Standard Sanitary Manufacturing Company, Pittsburg, Pa. Pattern for castings. No. 985,822; Mar. 7; Sp. p. 106; Gaz. vol. 164; p. 22.
Marsh, Albert L., assignor to Hoskins Manufacturing Company, Detroit, Mich. Laboratory utensil-holder. No. 1,012,391; Dec. 19; Sp. p. 4455; Gaz. vol. 173; p. 763.
Marsh, Alfred L., Richmond Hill, N. Y. Vaginal syringe. No. 1,007,468; Oct. 31; Sp. p. 6400; Gaz. vol. 171; p. 1162.
Marsh, Allan H., assignor to Frost Gear & Machine Co., Jackson, Mich. Machine for cutting polygonal holes. No. 1,007,127; Oct. 31; Sp. p. 5679; Gaz. vol. 171; p. 1041.
Marsh, Aura C. (See Fretter and Marsh.)
Marsh, Calvin D., deceased; F. F. Stryker, administrator, assignor to Hermance Machine Co., Williamsport, Pa. Device for spirally twisting blades for cutter-heads. No. 1,004,801; Oct. 3; Sp. p. 547; Gaz. vol. 171; p. 90.
Marsh, Clarence W., Niagara Falls, assignor, by mesne assignments, to Hooker Electrochemical Company, New York, N. Y. Bleach-chamber. No. 1,007,366; Oct. 31; Sp. p. 6185; Gaz. vol. 171; p. 1127.

Alphabetical list of patentees—Continued.

Marsh, Edward S. and R. M., Rochester, N. Y. Transmission-gearing for automobiles. No. 994,017; May 30; Sp. p. 6824; Gaz. vol. 166; p. 1225.
Marsh, George, Otjen, Wis. Trestle. No. 986,189; Mar. 7; Sp. p. 904; Gaz. vol. 164; p. 146.
Marsh, George A., Washington, D. C., assignor to Helicoid Copyliner Company. Copy-holder. No. 994,857; June 13; Sp. p. 1677; Gaz. vol. 167; p. 301
Marsh, George A., assignor to G. C. Boarman, Washington, D. C. Copy-holder. No. 1,008,349; Nov. 14; Sp. p. 1565; Gaz. vol. 172; p. 285.
Marsh, George W., Oakland, Cal. Lubricating attachment for gasolene-tanks. No. 1,010,288; Nov. 28; Sp. p. 5794; Gaz. vol. 172; p. 1032.
Marsh, Harry M., Hamilton, Ontario, Canada. Loom for cross of gauze weaving. No. 994,018; May 30; Sp. p. 6827; Gaz. vol. 166; p. 1225.
Marsh, James, Academy, S. D. Wrench. No. 1,012,881; Dec. 26; Sp. p. 5537; Gaz. vol. 173; p. 977.
Marsh, James S., Quincy, Ill. Combined harrow and cultivator. No. 994,766; June 13; Sp. p. 1470; Gaz. vol. 167; p. 270.
Marsh, John W., Canon City, Colo. Ballot-box. No. 1,007,219; Oct. 31; Sp. p. 5886; Gaz. vol. 171; p. 1075.
Marsh, Joseph J., and A. Bates, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon boots or shoes. No. 995,022; June 13; Sp. p. 2038; Gaz. vol. 167; p. 356.
Marsh, Malcolm M., *et al.* (See Beers, Harry F., assignor.)
Marsh, Richard A., Bessemer, Ala. Pedestal-jaw-facing machine. No. 999,576; Aug. 1; Sp. p. 758; Gaz. vol. 169; p. 131.
Marsh, Robert G., Detroit, Mich. Dispensing apparatus. No. 981,296; Jan. 10; Sp. p. 2567; Gaz. vol. 162; p. 418.
Marsh, Roger M. (See Marsh, Edward S. and R. M.)
Marsh Valve Company. (See Marsh, William C., assignor.)
Marsh, Wilbur W. (See Hackett and Morgan, assignors.)
Marsh, Wilbur W. (See Menges, Theodore C., assignor.)
Marsh, William C., assignor to Marsh Valve Company, Dunkirk, N. Y. Valve. No. 1,009,763; Nov. 28; Sp. p. 4729; Gaz. vol. 172; p. 856.
Marsh, William F., Malaga, N. J. Fertilizer-drill attachment to cultivators and plows. No. 987,388; Mar. 21; Sp. p. 3445; Gaz. vol. 164; p. 617.
Marshall, Albert T., assignor to The Automatic Refrigerating Company, Hartford, Conn. Refrigerating system. No. 1,001,664; Aug. 29; Sp. p. 5258; Gaz. vol. 169; p. 973.
Marshall, Albert T., assignor to The Automatic Refrigerating Company, Hartford, Conn. Multiple feed system. No. 1,003,283; Sept. 12; Sp. p. 2412; Gaz. vol. 170; p. 415.
Marshall, Arthur E., and F. J. Chamrod, Lima, Ohio. Railway-tie. No. 1,009,539; Nov. 21; Sp. p. 4271; Gaz. vol. 172; p. 736.
Marshall, Arthur G., Collinwood, Ohio. Draft-gear. No. 997,399; July 11; Sp. p. 1674; Gaz. vol. 168; p. 304.
Marshall, Bertice E, assignor to F. V. Winters, New York, N. Y. Lubricator for elevator-guides. No. 1,000,532; Aug. 15; Sp. p. 2813; Gaz. vol. 169; p. 519.
Marshall, Charles A., Ripley, Ohio. Ice-creeper. No 994,527; June 6; Sp. p. 886; Gaz. vol. 167; p. 147.
Marshall, Charles E., Chicago, Ill. Steering mechanism for roller push-chairs. No. 998,706; July 25; Sp. p. 4584; Gaz. vol. 168; p. 835.
Marshall, Charles W., Polk, Pa. Nut-lock. No. 994,597; June 6; Sp. p. 1028; Gaz. vol. 167; p. 171.
Marshall, David W., Sarnia, Ontario, Canada. Wire-twisting device. No. 981,444; Jan. 10; Sp. p. 2908; Gaz. vol. 162; p. 470.
Marshall, Edward L. (See Smith and Marshall.)
Marshall, Edward L., and G. P. Pavlik, Ruth, Nebr. Wrench. No. 1,005,724; Oct. 10; Sp. p. 2530; Gaz. vol. 171; p. 434.
Marshall Field & Company. (See Davis, Arthur, assignor.)
Marshall Field & Company. (See Major, Lura S., assignor.)
Marshall, Francis M., Stockholm, Sweden. Explosive. No. 993,534; May 30; Sp. p. 5805; Gaz. vol. 166; p. 1060.
Marshall, Frank J., Easton, Pa. Pulp-beating engine. No. 984,830; Feb. 21; Sp. p. 3421; Gaz. vol. 163; p. 604.
Marshall, George, San Francisco, Cal. Disintegrating and value-saving machine. No. 985,359; Feb. 28; Sp. p 4548; Gaz. vol. 163; p. 816.
Marshall, George, Fremont, Nebr. Shock-truck. No. 998,707; July 25; Sp. p. 4586; Gaz. vol. 168; p. 835.
Marshall, George, Fremont, Nebr. Machine for making shocks. No. 1,000,533; Aug. 15; Sp. p. 2814; Gaz. vol. 169; p. 519.
Marshall, George H., Roanoke Rapids, N. C. Producing cellulose from fibrous materials. No. 982,379; Jan. 24; Sp. p. 4872; Gaz. vol. 162; p. 843.
Marshall, George H., Roanoke Rapids, N. C. Apparatus for reducing fiber-yielding materials. No. 985,613; Feb. 28; Sp. p. 5120; Gaz. vol. 163; p. 905.
Marshall, Harry E., Detroit, Mich. Lineman's protector. No. 992,738; May 16; Sp. p. 4074; Gaz. vol. 166; p. 728.
Marshall, Henry, assignor to L. L. Burd, Lincoln, Nebr. Switch. No. 1,009,677; Nov. 21; Sp. p. 4526; Gaz. vol. 172; p. 779.
Marshall, Herbert E., New York, assignor to H. W. Aylward, Brooklyn, N. Y. Bottle-capping machine. No. 986,839; Mar. 14; Sp. p. 2297; Gaz. vol. 164; p. 398.
Marshall, Holmes, New York, N. Y. Combined type-writer and computer. No. 982,517; Jan. 24; Sp. p. 5173; Gaz. vol. 162; p. 892.
Marshall, Holmes, New York, N. Y. Combined type-writer and computer. No. 982,518; Jan. 24; Sp. p. 5177; Gaz. vol. 162; p. 892.
Marshall, Holmes, New York, N. Y. Game-counter. No. 987,151; Mar. 21; Sp. p. 2919; Gaz. vol. 164; p. 533.
Marshall, Holmes, New York, N. Y., assignor, by mesne assignments, to Addograph Manufacturing Company. Computing-machine. No. 987,150; Mar. 21; Sp. p. 2908; Gaz. vol. 164; p. 533.
Marshall, John, Fall River, Mass. Automatic hydraulic hat-press. No. 994,858; June 13; Sp. p. 1680; Gaz. vol. 167; p. 301.
Marshall, John T., Metuchen, N. J., assignor to General Electric Company. Manufacture of lamp-filaments. No. 996,420; June 27; Sp. p. 5136; Gaz. vol. 167; p. 900.
Marshall, Norman, Newton, Mass. Tapping-machine. No. 981,665; Jan. 17; Sp. p. 3328; Gaz. vol. 162; p. 565.
Marshall, Norman, Newton, Mass., assignor, by mesne assignments, to Arrow Electric Company, Hartford, Conn. Outlet-box. No. 984,771; Feb. 21; Sp. p. 3311; Gaz. vol. 163; p. 584.
Marshall, Norman, Newton, Mass., assignor, by mesne assignments, to Arrow Electric Company, Hartford, Conn. Lamp-socket. No. 987,152; Mar. 21; Sp. p. 2922; Gaz. vol. 164; p. 534.
Marshall, Norman, Newton, Mass., assignor, by mesne assignments, to Arrow Electric Company, Hartford, Conn. Lamp-socket. No. 989,623; Apr. 18; Sp. p. 2860; Gaz. vol. 165; p. 506.
Marshall, Robert L., Elizabethtown, Ky. Safety spring-barrel. No. 996,499; June 27; Sp. p. 5279; Gaz. vol. 167; p. 926.
Marshall, Walker E., Logansport, Ind., assignor to I. J. Scott, Danville, Ill. Trolley. No. 1,011,462; Dec. 12; Sp. p. 2382; Gaz. vol. 173; p. 407.
Marshall, William C., New Haven, Conn. Vehicle-lamp. No. 1,008,045; Nov. 7; Sp. p. 859; Gaz. vol. 172; p. 137.
Marshel, Addison B., Kansas City, Kans. Pen and pencil holder. No. 984,381; Feb. 14; Sp. p. 2441; Gaz. vol. 163; p. 413.
Marsilii, Luigi, West Chester, Pa. Cultivator. No. 992,727; May 16; Sp. p. 4053; Gaz. vol. 166; p. 724.
Marsters, James H., and F. S. Mathias, Lookingglass, Oreg. Life-saving device. No. 1,012,679; Dec. 26; Sp. p. 5046; Gaz. vol. 173; p. 906.
Marston, Charles H., Reading, and H. H. Cummings, Newton, Mass., assignors to The Boston Automatic Machine Company, Portland, Me. Apparatus for marking checks. (Reissue.) No. 13,279; Aug. 8; Sp. p. 2418; Gaz. vol. 169; p. 425.
Marston, Joseph C., assignor of one-half to Winans Judson Company, Los Angeles, Cal. Garment-clasp. No. 993,535; May 20; Sp. p. 5805; Gaz. vol. 166; p. 1060.
Martak, Adam E. (See Fieseler, Edward E., assignor.)
Martel, Adelard F., Burlingame, assignor to J. Holler, Gilroy, Cal. Wave-motor. No. 1,003,930; Sept. 19; Sp. p. 3807; Gaz. vol. 170; p. 669.
Martel, Gustave J., Chicago, Ill. Tire-patch. No. 985,532; Feb. 28; Sp. p. 4958; Gaz. vol. 163; p. 877.
Martel, Gustave J., Chicago, Ill. Tire-patching device. No. 1,003,002; Sept. 12; Sp. p. 1824; Gaz. vol. 170; p. 316.
Martel, Gustave J., Chicago, Ill. Tire-patching device. No. 1,003,003; Sept. 12; Sp. p. 1825; Gaz. vol. 170; p. 316.
Martel, Gustave J., Chicago, Ill. Repair-patch for pneumatic tires. No. 1,003,004; Sept. 12; Sp. p. 1827; Gaz. vol. 170; p. 316.
Martell, Charles H., Saginaw, Mich., assignor of one-half to H. Brueck, New York, N. Y. Ice-skid switch. No. 990,058; Apr. 18; Sp. p. 3779; Gaz. vol. 165; p. 654.
Martenson, Anders, Independence, Colo. Combination-tool. No. 1,004,054; Sept. 26; Sp. p. 4122; Gaz. vol. 170; p. 741.
Marth, Charles J., assignor to Wayne Manufacturing Company, St. Louis, Mo. Gearing for washing-machines. No. 984,831; Feb. 21; Sp. p. 3422; Gaz. vol. 163; p. 604.
Marth, Charles J., assignor to Wayne Manufacturing Company, St. Louis, Mo. Gearing for washing-machines. No. 1,006,860; Oct. 24; Sp. p. 5082; Gaz. vol. 171; p. 896.
Marth, Charles J., assignor to Wayne Manufacturing Company, St. Louis, Mo. Gearing. No. 1,008,169; Nov. 7; Sp. p. 1104; Gaz. vol. 172; p. 181.
Marti, Albert, Fond du Lac, Wis. Mail-car bag-rack. No. 1,002,168; Aug. 29; Sp. p. 6310; Gaz. vol. 169; p. 1140.
Marti, Fritz, Bas Obispo, Panama. Thermostatic motor. No. 984,579; Feb. 21; Sp. p. 2883; Gaz. vol. 163; p. 514.
Martin, Abraham, and A. Whitcomb, Paris, France. Machine for treating sewage, refuse, or the like. No. 981,445; Jan. 10; Sp. p. 2909; Gaz. vol. 162; p. 470.

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Martin, Albert W., Indianapolis, Ind., assignor to Edwin Harrington, Son & Co., Inc., Philadelphia, Pa. Chuck. No. 1,010,162; Nov. 28; Sp. p. 5532; Gaz. vol. 172; p. 990.
Martin, Algernon W., Atlanta, Ga. Suspension-hook. No. 993,262; May 23; Sp. p. 5206; Gaz. vol. 166; p. 934.
Martin, Arthur H., Boston, assignor to W. F. Dodge, Somerville, Mass. Knife-sharpening attachment for meat-choppers. No. 996,269; June 27; Sp. p. 4773; Gaz. vol. 167; p. 846.
Martin, Artie, Devore, Cal. Lawn-sprinkler. No. 1,009,540; Nov. 21; Sp. p. 4273; Gaz. vol. 172; p. 736.
Martin, Barnet E., St. Marys, W. Va. Tire-setter. No. 984,382; Feb. 14; Sp. p. 2442; Gaz. vol. 163; p. 413.
Martin, Brady, Lansing, Mich. Hay-rack. No. 1,003,367; Sept. 12; Sp. p. 2580; Gaz. vol. 170; p. 444.
Martin, C. P. (See Lyon, Samuel S., assignor.)
Martin, Charles B., Portland, Oreg. Well-digging apparatus. No. 1,003,284; Sept. 12; Sp. p. 2415; Gaz. vol. 170; p. 415.
Martin, Charles B., Detroit, Mich. Artificial leg. No. 1,009,079; Nov. 21; Sp. p. 3234; Gaz. vol. 172; p. 573.
Martin, Charles C., Murphysboro, Ill. Railway-tie. No. 989,917; Apr. 18; Sp. p. 3487; Gaz. vol. 165; p. 606.
Martin, Charles H., assignor of one-half to R. E. Byam, Los Angeles, Cal. Dressmaker's adjustable form. No. 988,480; Apr. 4; Sp. p. 407; Gaz. vol. 165; p. 66.
Martin, Charles W., and C. Rosine, Chicago, Ill., assignors, by mesne assignments, to said Martin. Pocket-bank. No. 1,005,861; Oct. 17; Sp. p. 2828; Gaz. vol. 171; p. 515.
Martin, Clarence W., *et al.* (See Remisch, Edward T., assignor.)
Martin, Columbus M., Forest City, N. C. Wire clothes-line. No. 988,006; Mar. 28; Sp. p. 4811; Gaz. vol. 164; p. 857.
Martin Corrugated Paper and Box Company, The. (See Brown and Martin, assignors.)
Martin, Daniel W., Lufkin, Tex. Derailing device. No. 982,153; Jan. 17; Sp. p. 4386; Gaz. vol. 162; p. 734.
Martin, David A., Republic, Wash. Electric-pole stand. No. 982,380; Jan. 24; Sp. p. 4876; Gaz. vol. 162; p. 844.
Martin, Delano O., near Buchanan, Ohio. Land-roller. No. 981,446; Jan. 10; Sp. p. 2911; Gaz. vol. 162; p. 470.
Martin, Edgar D., Chicago, Ill. Dock construction and method of constructing docks. No. 1,006,247; Oct. 17; Sp. p. 3706; Gaz. vol. 171; p. 652.
Martin, Frank, assignor to Wright Wire Company, Worcester, Mass. Wire brush. No. 998,022; July 18; Sp. p. 3080; Gaz. vol. 168; p. 561.
Martin, Frank, assignor to Wright Wire Company, Worcester, Mass. Wire brush. No. 999,820; Aug. 8; Sp. p. 1238; Gaz. vol. 169; p. 242.
Martin, Frank J., assignor of one-half to G. Thieme, Chicago, Ill. Coat hanging and displaying device. No. 1,011,463; Dec. 12; Sp. p. 2385; Gaz. vol. 173; p. 408.
Martin, Frank P., Williamsburg, Kans. Pipe-mold. No. 1,006,248; Oct. 17; Sp. p. 3709; Gaz. vol. 171; p. 652.
Martin, Frederic W., Astoria, N. Y. Life-boat. No. 1,011,464; Dec. 12; Sp. p. 2388; Gaz. vol. 173; p. 408.
Martin, Frederick E., Bonami, La. Attachment for saw-mill-hogs. No. 997,684; July 11; Sp. p. 2265; Gaz. vol. 168; p. 401.
Martin, Frederick E., Bonami, La. Fluid-pressure control. No. 1,004,541; Sept. 26; Sp. p. 5155; Gaz. vol. 170; p. 906.
Martin, Frederick S. (See Corbin and Martin.)
Martin, Frederick S., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutator for dynamo-electric machines. No. 1,007,469; Oct. 31; Sp. p. 6401; Gaz. vol. 171; p. 1162.
Martin, Frederick W., Wichita, Kans. Acetylene-gas generator. No. 988,645; Apr. 4; Sp. p. 765; Gaz. vol. 165; p. 122.
Martin, Frederick W., Wichita, Kans. Corrugated galvanized stack-cover. No. 989,624; Apr. 18; Sp. p. 2864; Gaz. vol. 165; p. 506.
Martin, Frederick W., New York, N. Y. Door-operating mechanism for gondola cars. No. 993,389; May 30; Sp. p. 5486; Gaz. vol. 166; p. 1010.
Martin, Frederick W., New York, N. Y. Door-operating mechanism for hopper-cars. No. 1,012,092; Dec. 19; Sp. p. 3825; Gaz. vol. 173; p. 662.
Martin, Garland E., Norfolk, Va. Razor-strop. No. 986,190; Mar. 7; Sp. p. 905; Gaz. vol. 164; p. 146.
Martin, George C., Los Angeles, Cal. Shock-absorber. No. 993,536; May 30; Sp. p. 5806; Gaz. vol. 166; p. 1060.
Martin, George C., Los Angeles, Cal. Shock-absorber for automobiles and other vehicles. No. 1,002,416; Sept. 5; Sp. p. 539; Gaz. vol. 170; p. 76.
Martin, George E., Smock, Pa. Rail joint and fastener. No. 985,688; Feb. 28; Sp. p. 5282; Gaz. vol. 163; p. 930.
Martin, George H., Lenox, Iowa. Screen-wire rack. No. 994,173; June 6; Sp. p. 146; Gaz. vol. 167; p. 25.
Martin, George L., Binghamton, N. Y., assignor to Bundy Manufacturing Company. Printing-machine. No. 1,005,565; Oct. 10; Sp. p. 2181; Gaz. vol. 171; p. 380.
Martin, George W., Chisholm, Minn. Automatic retaining-valve. No. 993,263; May 23; Sp. p. 5207; Gaz. vol. 166; p. 934.
Martin, Henry C., Elkhart, Ind. Valved wind musical instrument. No. 1,003,931; Sept. 19; Sp. p. 3809; Gaz. vol. 170; p. 670.
Martin, Henry H., and W. C. Smith, assignors to Free Light Acetylene Generator & Mfg. Co., Maryville, Mo. Gas-globe holder and burner-tube. No. 993,697; May 30; Sp. p. 6182; Gaz. vol. 166; p. 1118.
Martin, Herbert E., Colorado Springs, Colo. Water-distributing system. No. 987,475; Mar. 21; Sp. p. 3627; Gaz. vol. 164; p. 646.
Martin, Howard T. (See Rippingille and Martin.)
Martin, Howard T., and J. F. Golden, Baltimore, Md. Illuminating instrument. No. 981,447; Jan. 10; Sp. p. 2912; Gaz. vol. 162; p. 471.
Martin, Howard T., and J. F. Golden, Baltimore, Md. Illuminating instrument. No. 1,011,980; Dec. 19; Sp. p. 3561; Gaz. vol. 173; p. 622.
Martin, Hugh J., Pittsburg, Pa. Spotting device for ten-pins. No. 1,000,184; Aug. 8; Sp. p. 2060; Gaz. vol. 169; p. 367.
Martin, Ira T., and W. L. Jones, Oakland, Cal. Clutch. No. 985,046; Feb. 21; Sp. p. 3832; Gaz. vol. 163; p. 676.
Martin, Irvin H., Cedargrove, W. Va. Spigot. No. 1,003,932; Sept. 19; Sp. p. 3813; Gaz. vol. 170; p. 670.
Martin, Isaac S., Fort Riley, Kans. Bridle-bit. No. 993,608; May 30; Sp. p. 5962; Gaz. vol. 166; p. 1085.
Martin, James F., Pittsburg, Pa. Apparatus for measuring light. No. 1,000,831; Aug. 15; Sp. p. 3482; Gaz. vol. 169; p. 626.
Martin, James H., Springfield, Mo. Current-motor. No. 982,154; Jan. 17; Sp. p. 4387; Gaz. vol. 162; p. 734.
Martin, James M. (See Wallace and Martin.)
Martin, James W. (See Wallace and Martin.)
Martin, James W., and J. A. Wallace, Darlington township, Beaver county, Pa. Filling and dumping device. No. 995,546; June 20; Sp. p. 3156; Gaz. vol. 167; p. 562.
Martin, John, and H. Fietsch, Jr., Chicago, Ill. Trading-stamp. No. 1,004,055; Sept. 26; Sp. p. 4123; Gaz. vol. 170; p. 741.
Martin, John D., Owensboro, Ky. Ditching and grading machine. No. 987,476; Mar. 21; Sp. p. 3629; Gaz. vol. 164; p. 646.
Martin, John D., Wilkes-Barre, Pa. Splicing-needle. No. 989,378; Apr. 11; Sp. p. 2302; Gaz. vol. 165; p. 390.
Martin, John M. (See Faires and Martin.)
Martin, John N., Newport News, Va. Program-holder. No. 1,004,802; Oct. 3; Sp. p. 549; Gaz. vol. 171; p. 90.
Martin, John W. (See Witham, David W., assignor.)
Martin, Joseph E., Kansas City, Mo., assignor to The Bryant Electric Company, Bridgeport, Conn. Globe-holder. (Reissue.) No. 13,324; Nov. 28; Sp. p. 6049; Gaz. vol. 172; p. 1072.
Martin, Joseph M., assignor of one-half to H. Burkhart, Bay City, Tex. Door-check. No. 998,584; July 18; Sp. p. 4305; Gaz. vol. 168; p. 760.
Martin, Julius R., assignor of one-half to B. J. Borgart, Portland, Oreg. Ornamental hair-pin. No. 1,007,586; Oct. 31; Sp. p. 6676; Gaz. vol. 171; p. 1202.
Martin Marine Life Saving Devices, The. (See Lewkowicz, Anthony J., assignor.)
Martin, Mathew. (See Harper, George, assignor.)
Martin, Morris, Malden, Mass. Fluid-gage. No. 1,003,404; Sept. 12; Sp. p. 2642; Gaz. vol. 170; p. 455.
Martin, Paul, Roubaix, France. Inking device. No. 1,012,567; Dec. 19; Sp. p. 4799; Gaz. vol. 173; p. 824.
Martin, Perry J., assignor of one-half to A. Davis, Jamestown, N. Y. Razor-stropping device. No. 1,006,390; Oct. 17; Sp. p. 4020; Gaz. vol. 171; p. 701.
Martin, Robert H. (See Marchant, William E., assignor.)
Martin, Samuel H. (See Brown and Martin.)
Martin, Samuel H. (See Mears, William H., assignor.)
Martin, Thomas C., Cleveland, Ohio, assignor to Barrel Holding and Manufacturing Company. Antislipping device for vehicle-wheels. No. 999,384; Aug. 1; Sp. p. 383; Gaz. vol. 169; p. 67.
Martin, Thomas F., Atlanta, Ga. Metal-strip joint. No. 980,311; Jan. 3; Sp. p. 246; Gaz. vol. 162; p. 47.
Martin, Van Buren, assignor of one-half to L. M. Perrine, one-fourth to J. E. Hampton, and one-fourth to C. E. Miles, Moberly, Mo. Running-gear. No. 997,631; July 11; Sp. p. 2155; Gaz. vol. 168; p. 382.
Martin, Victor L., Arnold, Pa. Glass-furnace. No. 995,267; June 13; Sp. p. 2529; Gaz. vol. 167; p. 437.
Martin, Virgil C., Rewey, Wis. Sliding gate. No. 999,119; July 25; Sp. p. 5499; Gaz. vol. 168; p. 979.
Martin, William H., Des Moines, Iowa. Adjustable stand. No. 994,598; June 6; Sp. p. 1029; Gaz. vol. 167; p. 171.
Martin, William H., assignor of one-half to G. M. Lee, Geyserville, Cal. Life-saving device for street-cars. No. 991,160; May 2; Sp. p. 711; Gaz. vol. 166; p. 120.
Martin, William H., assignor of two-fifths to J. B. Nelson, Geyserville, Cal. Car-fender. No. 993,609; May 30; Sp. p. 5963; Gaz. vol. 166; p. 1086.
Martin, William H., assignor of two-fifths to A. H. and T. W. Bonniefield, Geyserville, Cal. Car-fender. No. 1,012,392; Dec. 19; Sp. p. 4456; Gaz. vol. 173; p. 763.
Martin, William J., Saulsbury, Tenn. Fifth-wheel. No. 988,884; Apr. 4; Sp. p. 1251; Gaz. vol. 165; p. 200.

Alphabetical list of patentees—Continued.

Martin, William J., assignor of one-half to F. J. Carr, Buffalo, N. Y. Car-door lock. No. 990,446; Apr. 25; Sp. p. 4673; Gaz. vol. 165; p. 821.
Martin, William R., Lancaster township, Lancaster county, Pa. Brick-drying plant. No. 1,011,465; Dec. 12; Sp. p. 2389; Gaz. vol. 173; p. 408.
Martineau, Clarence R., *et al.* (See Fairchild and Cooper, assignors.)
Martineau, William C., *et al.* (See Fairchild and Cooper, assignors.)
Martineau, William C., Albany, N. Y. Car-seal. No. 1,010,439; Dec. 5; Sp. p. 71; Gaz. vol. 173; p. 14.
Martineau, William C., Albany, N. Y. Car-seal. No. 1,010,440; Dec. 5; Sp. p. 73; Gaz. vol. 173; p. 15.
Martineau, William C., assignor to Universal Car Seal & Appliance Co., Albany, N. Y. Car-seal. No. 1,009,982; Nov. 28; Sp. p. 5156; Gaz. vol. 172; p. 928.
Martineau, William C., Albany, and E. J. Austin, Gloversville, N. Y.; said Austin assignor to said Martineau. Seal. No. 1,012,882; Dec. 26; Sp. p. 5538; Gaz. vol. 173; p. 977.
Martinelli, Arturo, West Hoboken, N. J. Sediment-remover. No. 982,734; Jan. 24; Sp. p. 5597; Gaz. vol. 162; p. 963.
Martinez, Christobal A., Hacienda de Hornos, Mexico. Emergency attachment for railway-cars. No. 997,459; July 11; Sp. p. 1783; Gaz. vol. 168; p. 323.
Martini, Carl, Berlin, Germany. Device for feeding liquids. No. 987,248; Mar. 21; Sp. p. 3146; Gaz. vol. 164; p. 570.
Martini, Carl, assignor to Martini & Hüneke Maschinenbau-Aktiengesellschaft, Berlin, Germany. Apparatus for conveying inflammable liquids. No. 1,004,287; Sept. 26; Sp. p. 4637; Gaz. vol. 170; p. 821.
Martini & Hüneke Maschinenbau-Aktiengesellschaft. (See Martini, Carl, assignor.)
Martinoja, Bernardo, New York, N. Y. Self-locking box. No. 1,010,289; Nov. 28; Sp. p. 5795; Gaz. vol. 172; p. 1032.
Martinson, Christian. (See Hanson and Martinson.)
Martinson, Henry. (See Fluschman, Albert C., assignor.)
Martinson, Martin, Enderlin, N. D. Pole-tip. No. 1,007,470; Oct. 31; Sp. p. 6403; Gaz. vol. 171; p. 1163.
Martoccio, Frank A., Minneapolis, Minn. Self-seating piston for macaroni-presses. No. 988,007; Mar. 28; Sp. p. 4812; Gaz. vol. 164; p. 857.
Martoccio, Frank A., Minneapolis, Minn. Macaroni-making machine. No. 992,369; May 16; Sp. p. 3331; Gaz. vol. 166; p. 599.
Martyn, John, Detroit, Mich. Hose-reel. No. 1,010,656; Dec. 5; Sp. p. 563; Gaz. vol. 173; p. 90.
Martz, Joseph J., Detroit, Mich. Can-opener. No. 1,002,068; Aug. 29; Sp. p. 6131; Gaz. vol. 169; p. 1108.
Marvil, Joshua D., Laurel, Del. Wheel-tire. No. 980,808; Jan. 3; Sp. p. 1346; Gaz. vol. 162; p. 216.
Marvil, Joshua D., Laurel, Del. Wheel-tire. No. 999,511; Aug. 1; Sp. p. 628; Gaz. vol. 169; p. 108.
Marvin, Arba B., Jr., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,002,069; Aug. 29; Sp. p. 6132; Gaz. vol. 169; p. 1108.
Marx, Conrad. (See Vogel, Ernest H., assignor.)
Marx, Gustave C., Elizabeth, N. J., assignor to Diehl Manufacturing Company. Electrical attachment-plug. No. 1,000,101; Aug. 8; Sp. p. 1875; Gaz. vol. 169; p. 339.
Marx, Nicholas, and J. Ketzner, Mount Hope, Kans. Mold for culverts. No. 985,916; Mar. 7; Sp. p. 339; Gaz. vol. 164; p. 54.
Marx, Richard, Philadelphia, Pa. Safety-razor. No. 1,013,034; Dec. 26; Sp. p. 5878; Gaz. vol. 173; p. 1028.
Marx, Wilhelm, Dusseldorf, assignor to Schweinfurter Präcisions-Kugel-Lager-Werke Fichtel & Sachs, Schweinfurt, Germany. Coaster and brake mechanism. No. 1,010,933; Dec. 5; Sp. p. 1189; Gaz. vol. 173; p. 186.
Maryott, Louis A., New York, N. Y. Lock. No. 984,952; Feb. 21; Sp. p. 3652; Gaz. vol. 163; p. 644.
Marzetti, Manlio, Milan, Italy. Electrically-heated vessel. No. 992,021; May 9; Sp. p. 2514; Gaz. vol. 166; p. 448.
Mas, Ernest, New York, N. Y. Palmitin waterproofing compound and making the same. No. 982,620; Jan. 24; Sp. p. 5367; Gaz. vol. 162; p. 926.
Maschinenfabrik Kappel (Actien-Gesellschaft). (See Knecht, Johann, assignor.)
Maschinenfabrik Schnarr & Schmitt. (See Schmitt, Rudolf, assignor.)
Maschinenfabrik Weingarten. (See Wachter, Karl, assignor.)
Mascord, George W., London, England. Collecting and stacking machine. No. 997,201; July 4; Sp. p. 1266; Gaz. vol. 168; p. 206.
Masel, Theodore, assignor to American Bakers Machinery Company, St. Louis, Mo. Dough-molding machine. No. 1,005,566; Oct. 10; Sp. p. 2200; Gaz. vol. 171; p. 380.
Mashbir, Marcus, New York, N. Y. Sewing-machine finger-guard. No. 1,000,740; Aug. 15; Sp. p. 3286; Gaz. vol. 169; p. 594.
Masi, Philip W., *et al.* (See Storm, George H., assignor.)
Masko, Junji, Indianapolis, Ind. Name-tag for umbrellas. No. 990,059; Apr. 18; Sp. p. 3781; Gaz. vol. 165; p. 654.
Maslin, Emile, L'Estaque, France. Steam-boiler. No. 1,009,847; Nov. 28; Sp. p. 4896; Gaz. vol. 172; p. 885.
Mason, Arthur, Pike, assignor, by mesne assignments, of one-half to J. A. Levis and one-eighth to H. W. Shannon, Rochester, N. Y. Starting device for explosive-engines. No. 995,547; June 20; Sp. p. 3159; Gaz. vol. 167; p. 562.
Mason, Arthur J., Hartford, Conn. Rack for hats, coats, &c. No. 984,383; Feb. 14; Sp. p. 2444; Gaz. vol. 163; p. 413.
Mason, Carlisle. (See Schmid and Mason.)
Mason, Carlisle, Wyndmoor, Pa., assignor to Nelson Valve Company. Valve. No. 999,239; Aug. 1; Sp. p. 92; Gaz. vol. 169; p. 17.
Mason, Charles A., Seattle, Wash. Current-motor. No. 1,002,417; Sept. 5; Sp. p. 541; Gaz. vol. 170; p. 77.
Mason, Charles E., Bellefontaine, Ohio. Window-sash ventilation-lock. No. 1,007,300; Oct. 31; Sp. p. 6049; Gaz. vol. 171; p. 1103.
Mason, Charles S., Hershey, Nebr. Holder for grinding tools. No. 980,654; Jan. 3; Sp. p. 1050; Gaz. vol. 162; p. 166.
Mason, Charles T., assignor to The Sumter Telephone Mfg. Co., Sumter, S. C. Telephone-transmitter. No. 1,007,883; Nov. 7; Sp. p. 539; Gaz. vol. 172; p. 82.
Mason, Fred H., and T. B. Griffin, Scranton, Pa. Separating apparatus. No. 1,005,255; Oct. 10; Sp. p. 1483; Gaz. vol. 171; p. 269.
Mason, Frédéric S., New York, N. Y. Santalol compound. No. 1,007,587; Oct. 31; Sp. p. 6678; Gaz. vol. 171; p. 1203.
Mason, H. M., *et al.* (See Hayward, Eugene, assignor.)
Mason, Harry, Denver, Colo. Starter for automobile-engines. No. 1,000,929; Aug. 15; Sp. p. 3678; Gaz. vol. 169; p. 660.
Mason, Harry W., and W. J. Donnelly, assignors to W. R. Grogan, San Francisco, Cal. Oil-burner. No. 1,002,594; Sept. 5; Sp. p. 920; Gaz. vol. 170; p. 137.
Mason, Herbert C., Providence, R. I., assignor to Hood Rubber Company, Boston, Mass. Rubber boot and shoe. No. 1,005,256; Oct. 10; Sp. p. 1485; Gaz. vol. 171; p. 270.
Mason, Hosea A., Taunton, Mass. Fountain-pen cap. No. 1,003,190; Sept. 12; Sp. p. 2216; Gaz. vol. 170; p. 381.
Mason, Isaac, New York, N. Y. Convertible couch and bed. No. 993,856; May 30; Sp. p. 6502; Gaz. vol. 166; p. 1171.
Mason, John E., Columbus, Ohio. Firearm. No. 993,782; May 30; Sp. p. 6355; Gaz. vol. 166; p. 1146.
Mason, John F., Des Moines, Iowa. Water-closet-controlling apparatus. No. 1,007,715; Nov. 7; Sp. p. 139; Gaz. vol. 172; p. 23.
Mason, Matthew, New York, N. Y., assignor to The Arlington Leather Company. Reconstructed leather. No. 989,788; Apr. 18; Sp. p. 3215; Gaz. vol. 165; p. 563.
Mason, Michael G., Charleston, S. C. Lamp-stove. No. 991,338; May 2; Sp. p. 1099; Gaz. vol. 166; p. 183.
Mason, Percy. (See Woltereck, Herman C., assignor.)
Mason, Richard F., Bishopville, S. C., assignor of one-half to C. A. Divine, Franklin, N. C. Drilling-machine. No. 1,010,657; Dec. 5; Sp. p. 565; Gaz. vol. 173; p. 90.
Mason, Sydney R., Worcester, Mass. Brush-making machine. No. 1,000,422; Aug. 15; Sp. p. 2585; Gaz. vol. 169; p. 481.
Mason, Thomas B., Trenton, N. J. Wagon. No. 1,009,541; Nov. 21; Sp. p. 4274; Gaz. vol. 172; p. 736.
Mason, Volney W., Jr., New York, N. Y., assignor to Edgar Allen American Manganese Steel Company, Chicago, Ill. Dipper-tooth. No. 981,666; Jan. 17; Sp. p. 3331; Gaz. vol. 162; p. 566.
Mason, Volney W., Jr., New York, N. Y., assignor to Edgar Allen American Manganese Steel Company, Augusta, Me. Crusher-head. No. 993,783; May 30; Sp. p. 6359; Gaz. vol. 166; p. 1146.
Mason, William J., Seattle, Wash. Propeller. No. 1,000,030; Aug. 8; Sp. p. 1679; Gaz. vol. 169; p. 315.
Massachusetts Net Company. (See Saunders, David H., assignor.)
Massey-Harris Co. Ltd. (See Jones and Johnston, assignors.)
Massey-Harris Company, The. (See Buchanan, Albert E., assignor.)
Massey-Harris Company, The. (See Jones, Lyman M., assignor.)
Massey, John H., Providence, R. I. Acoustic diaphragm. No. 1,001,968; Aug. 29; Sp. p. 5941; Gaz. vol. 169; p. 1076.
Massey, John M., Gahanna, Ohio. Adjustable fireplace-grate. No. 1,008,170; Nov. 7; Sp. p. 1107; Gaz. vol. 172; p. 182.
Massey, John O., Providence, R. I. Attachable swimmer's device. No. 999,821; Aug. 8; Sp. p. 1239; Gaz. vol. 169; p. 242.
Massey, John R., assignor to The National Electric Lamp Company, Cleveland, Ohio. Apparatus for evacuating incandescent-lamp bulbs. No. 996,936; July 4; Sp. p. 698; Gaz. vol. 168; p. 115.
Massillon Foundry and Machine Company, The. (See Lane and Creter, assignors.)
Massip, Georges, Paris, France. Electric furnace. No. 1,005,725; Oct. 10; Sp. p. 2532; Gaz. vol. 171; p. 435.

Alphabetical list of patentees—Continued.

Masson, Andrew, Putney, England, and W. M. Wallace, Denny, Scotland. Beating-engine used in the manufacture of paper. (Reissue.) No. 13,241; May 16; Sp. p. 4094; Gaz. vol. 166; p. 731.
Mast, John W., Little Rock, Ark. Snap-hook. No. 1,005,257; Oct. 10; Sp. p. 1486; Gaz. vol. 171; p. 270.
Master, Albert, Park Ridge, Ill. Friction-clutch. No. 997,073; July 4; Sp. p. 1019; Gaz. vol. 168; p. 163.
Master Builders Company, The. (See Flesheim, Sylvester W., assignor.)
Master, Edward. (See Baskin, Hoffman, and Master.)
Master, James W., and N. S. Abrahamson, San Diego, Cal. Reversible traction-reel. No. 1,009,163; Nov. 21; Sp. p. 3400; Gaz. vol. 172; p. 601.
Masters, John F., Durham, N. C. Shelving. No. 983,075; Jan. 31; Sp. p. 6373; Gaz. vol. 162; p. 1108.
Masters, William. (See Pomerantz, Isidor, assignor.)
Masters, William F., New York, N. Y. Resilient wheel. No. 994,684; June 6; Sp. p. 1234; Gaz. vol. 167; p. 201.
Masterson, William R. (See Smoot and Masterson.)
Mastin, George C., *et al.* (See Bunnell, Morton G., assignor.)
Mastrangel, Louis, West Hoboken, assignor to Hartford Suspension Company, Jersey City, N. J. Multiple-spindle dividing-head. No. 1,001,419; Aug. 22; Sp. p. 4776; Gaz. vol. 169; p. 860.
Mastrup, Iver C., San Rafael, Cal. Liquid-measure indicator. No. 992,370; May 16; Sp. p. 3333; Gaz. vol. 166; p. 600.
Masuzawa, Yoshimasa, Armona, Cal. Swinging gate. No. 990,447; Apr. 25; Sp. p. 4676; Gaz. vol. 165; p. 822.
Matalene, Henry W., New York, N. Y. Watchcase. No. 1,006,965; Oct. 24; Sp. p. 5298; Gaz. vol. 171; p. 931.
Matas, Joseph, Paterson, N. J. Sugar-bowl. No. 1,003,767; Sept. 19; Sp. p. 3453; Gaz. vol. 170; p. 614.
Match Supply Company. (See Hutchinson, William F., assignor.)
Matchett, Winfield L., assignor of one-fourth to W. S. Lindley and one-fourth to J. W. Pomraining, Harrisburg, Pa. Train emergency-stop. No. 1,005,726; Oct. 10; Sp. p. 2533; Gaz. vol. 171; p. 435.
Matchette, Frank J., Milwaukee, Wis. Dust-collector. No. 1,007,716; Nov. 7; Sp. p. 142; Gaz. vol. 172; p. 23.
Mateer, George, Coatesville, Pa. Reaming-machine. No. 1,009,764; Nov. 28; Sp. p. 4730; Gaz. vol. 172; p. 857.
Mateer, James H., St. Louis, Mo. Hat-pin protector. No. 986,927; Mar. 14; Sp. p. 2479; Gaz. vol. 164; p. 429.
Mateer, Jesse E. (See Reynders and Mateer.)
Matejka, Edward B., Denver, Colo. Rail-joint. No. 1,000,832; Aug. 15; Sp. p. 3484; Gaz. vol. 169; p. 626.
Mathelot, Fernand E. A., and H. G. Gentilhomme, Paris, France. Synchronizing device. No. 993,610; May 30; Sp. p. 5965; Gaz. vol. 166; p. 1086.
Mather, Elisha B., Rochester, assignor to M. Minot, Brockport, N. Y. Twist-drill. No. 989,379; Apr. 11; Sp. p. 2304; Gaz. vol. 165; p. 390.
Mather, Emma. (See Mather, William A. and E.)
Mather, Roy A., Pittsburg, Pa. Rectifying-curve. No. 992,371; May 16; Sp. p. 3335; Gaz. vol. 166; p. 600.
Mather, Warren B. (See Dexter and Mather.)
Mather, William A. and E., Manchester, England. Automatic reshuttling apparatus for looms. No. 1,011,466; Dec. 12; Sp. p. 2395; Gaz. vol. 173; p. 409.
Mathern, Alphonse, Berlin, Germany. Machine for manufacturing pneumatic tires. No. 1,009,765; Nov. 28; Sp. p. 4732; Gaz. vol. 172; p. 857.
Mathers, Ezra A., assignor to The Hub Machine, Welding & Contracting Co., New York, N. Y. Electric-arc furnace-heater. No. 1,002,721; Sept. 5; Sp. p. 1208; Gaz. vol. 170; p. 181.
Mathes, John W., Long Island City, N. Y., assignor to E. Kiam, Houston, Tex. Coin-controlled vending-machine. No. 1,002,722; Sept. 5; Sp. p. 1212; Gaz. vol. 170; p. 181.
Mathes, Philip, assignor to Peck, Stow & Wilcox Company, Cleveland, Ohio. Knob. No. 988,364; Apr. 4; Sp. p. 153; Gaz. vol. 165; p. 27.
Mathesius, Walther, Charlottenburg, Germany. Reduction of metallic oxids. No. 1,003,627; Sept. 19; Sp. p. 3141; Gaz. vol. 170; p. 567.
Mathesius, Walther, Charlottenburg, Germany. Apparatus for the treatment of solid bodies with gases. No. 1,003,628; Sept. 19; Sp. p. 3144; Gaz. vol. 170; p. 567.
Matheson, Henry, New York, N. Y. Lock. No. 997,074; July 4; Sp. p. 1021; Gaz. vol. 168; p. 163.
Matheson, John C., San Francisco, Cal. Resilient wheel. No. 994,174; June 6; Sp. p. 147; Gaz. vol. 167; p. 26.
Mathews, Andrew J., White Plains, N. Y. Sign device. No. 991,867; May 9; Sp. p. 2216; Gaz. vol. 166; p. 396.
Mathews Gravity Carrier Co. (See Hutchinson, Robert D., assignor.)
Mathews, John H., Collinsville, Ala. Fertilizer-distributer. No. 986,840; Mar. 14; Sp. p. 2300; Gaz. vol. 164; p. 399.
Mathews, Julia B., Portland, Me. Hot-air register. No. 997,146; July 4; Sp. p. 1166; Gaz. vol. 168; p. 187.
Mathews, Porter H. (See Pettit, John E., assignor.)
Mathews, Thomas B., *et al.* (See Hohnhorst, William J., assignor.)
Mathias, Frederick S. (See Marsters and Mathias.)
Mathiesen, Carl E., Chicago, Ill. Electric clock. No. 995,797; June 20; Sp. p. 3733; Gaz. vol. 167; p. 650.
Mathieson, Alexander, Armley, near Leeds, England. Molding-machine. No. 989,170; Apr. 11; Sp. p. 1849; Gaz. vol. 165; p. 321.
Mathisen, Christian and G., Hadley, Minn. Bolt. No. 1,005,446; Oct. 10; Sp. p. 1911; Gaz. vol. 171; p. 338.
Mathisen, George. (See Mathisen, Christian and G.)
Mathwig, Walter A., Frankfort, S. D. Music-leaf turner. No. 981,780; Jan. 17; Sp. p. 3567; Gaz. vol. 162; p. 606.
Matricardi, Giuseppe, Pallanza, Italy, assignor to Société Harle & Cie., Paris, France. Apparatus for connecting articles to be transported to a traveling rope or chain with bosses. No. 996,355; June 27; Sp. p. 4976; Gaz. vol. 167; p. 876.
Matson, Alexander H., Bethel, Vt. Metal-cutting machine. No. 991,627; May 9; Sp. p. 1718; Gaz. vol. 166; p. 315.
Matson, Charles I., Chicago, Ill. Operating means for vacuum-cleaners. No. 1,011,467; Dec. 12; Sp. p. 2398; Gaz. vol. 173; p. 409.
Matters, Edward R., Neosho, Mo. Eyeglass-chain adjuster. No. 1,001,665; Aug. 29; Sp. p. 5263; Gaz. vol. 169; p. 974.
Matters, Edward R., assignor of one-half to J. A. Seagroves, Neosho, Mo. Watch-glass grinder. No. 1,010,506; Dec. 5; Sp. p. 247; Gaz. vol. 173; p. 39.
Matteson, George H., assignor of one-half to J. M. Hayes, Toledo, Ohio. Cushion-tire. No. 995,620; June 20; Sp. p. 3340; Gaz. vol. 167; p. 589.
Matteson, George H., assignor of one-half to J. M. Hayes, Toledo, Ohio. Cushion-tire. No. 1,006,665; Oct. 24; Sp. p. 4646; Gaz. vol. 171; p. 828.
Matteson, Walter C., San Jose, Cal. Flexible-band wheel. No. 1,011,634; Dec. 12; Sp. p. 2819; Gaz. vol. 173; p. 470.
Matthaei, Max W., Gross-Lichterfelde, near Berlin, Germany. Railway-sleeper. No. 1,003,629; Sept. 19; Sp. p. 3146; Gaz. vol. 170; p. 568.
Mattheiss, William, Baltimore, Md. Manufacture of compound lard. No. 980,809; Jan. 3; Sp. p. 1348; Gaz. vol. 162; p. 216.
Mattheiss, William, Baltimore, Md. Apparatus for the manufacture of compound lard. No. 993,784; May 30; Sp. p. 6361; Gaz. vol. 166; p. 1147.
Matthews, Algernon W., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 999,050; July 25; Sp. p. 5387; Gaz. vol. 168; p. 958.
Matthews & Bro., W. N. (See Matthews, William N., assignor.)
Matthews, Claude L., St. Louis, Mo. Rope-clamp. No. 988,481; Apr. 4; Sp. p. 409; Gaz. vol. 165; p. 66.
Matthews, Edgar M., assignor of one-half to W. E. Rothermel, Chicago, Ill. Interior-heating system. No. 993,857; May 30; Sp. p. 6504; Gaz. vol. 166; p. 1172.
Matthews, Edgar M., assignor of one-half to W. E. Rothermel, Chicago, Ill. Ventilating system. No. 999,385; Aug. 1; Sp. p. 386; Gaz. vol. 169; p. 68.
Matthews, Edward, Hamilton, Ontario, Canada. Horseshoe. No. 1,003,117; Sept. 12; Sp. p. 2062; Gaz. vol. 170; p. 355.
Matthews, Frank A., Eureka, Cal. Checkrein-holder. No. 984,580; Feb. 21; Sp. p. 2885; Gaz. vol. 163; p. 514.
Matthews, Frank C., Unity Station, Pa. Valve. No. 1,004,450; Sept. 26; Sp. p. 4974; Gaz. vol. 170; p. 875.
Matthews, Harold C., Newark, N. J. Picture-exhibiting device for talking-machines. No. 996,101; June 27; Sp. p. 4359; Gaz. vol. 167; p. 789.
Matthews, Harold C., Newark, N. J. Picture-exhibiting device for talking-machines. No. 996,102; June 27; Sp. p. 4363; Gaz. vol. 167; p. 790.
Matthews, Harry, Cleveland, Ohio. Sink-strainer. No. 981,448; Jan. 10; Sp. p. 2914; Gaz. vol. 162; p. 471.
Matthews, John H., Monticello, Iowa. Wire-stretcher. No. 1,012,393; Dec. 19; Sp. p. 4459; Gaz. vol. 173; p. 764.
Matthews, Joseph, Newburyport, Mass. Pipe-coupling. No. 992,022; May 9; Sp. p. 2519; Gaz. vol. 166; p. 448.
Matthews, Nate J., Newark, N. J. Wrapping-machine. No. 985,268; Feb. 28; Sp. p. 4360; Gaz. vol. 163; p. 787.
Matthews, Nate J., Newark, R. L. Johnstone, Glen Ridge, and A. W. Cash, Newark, N. J. Wrapping-machine. No. 985,267; Feb. 28; Sp. p. 4351; Gaz. vol. 163; p. 786.
Matthews, Philip F., Philadelphia, Pa. Car-fender. No. 998,788; July 25; Sp. p. 4782; Gaz. vol. 168; p. 864.
Matthews, Richard A., Chester, S. C. Stalk-cutter. No. 992,023; May 9; Sp. p. 2520; Gaz. vol. 166; p. 448.
Matthews, Richard B., Swansea, England. Portable driving apparatus. No. 984,953; Feb. 21; Sp. p. 3653; Gaz. vol. 163; p. 644.
Matthews, Robert E. (See Mansfield and Matthews.)
Matthews, Robert H. (See Lloyd, Daniel, assignor.)
Matthews, Thomas M., Nicholls, Ga. Shingle-sawing machine. No. 1,005,989; Oct. 17; Sp. p. 3116; Gaz. vol. 171; p. 560.
Matthews, Thomas O., Avalon borough, assignor to Jas. H. Matthews & Co., Pittsburg, Pa. Sign structure. No. 1,001,541; Aug. 22; Sp. p. 4987; Gaz. vol. 169; p. 900.

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Matthews, William N., assignor to W. N. Matthews & Bro., St. Louis, Mo. Incandescent-lamp guard. No. 997,460; July 11; Sp. p. 1785; Gaz. vol. 168; p. 323.
Matthews, William S. (See Wilson, Cowan D., assignor.)
Matthias, Charles G., Milwaukee, Wis. Clamp member. No. 1,008,656; Nov. 14; Sp. p. 2338; Gaz. vol. 172; p. 395.
Matthias, Maurice S., Galion, Ohio. Flush-valve. No. 1,012,394; Dec. 19; Sp. p. 4460; Gaz. vol. 173; p. 764.
Matthies, Henry, Chicago, Ill. Ditching-machine. No. 987,249; Mar. 21; Sp. p. 3147; Gaz. vol. 164; p. 570.
Matthies, William H., Antwerp, Belgium, assignor to Western Electric Company, New York, N. Y. Automatic exchange system. No. 996,500; June 27; Sp. p. 5280; Gaz. vol. 167; p. 926.
Matthijssen, Pieter, Eindhoven, Netherlands. Card-punching machine. No. 986,479; Mar. 14; Sp. p. 1533; Gaz. vol. 164; p. 275.
Mattice, Charles H., Green Island, assignor to Adams Laundry Machinery Company, Troy, N. Y. Ironing-machine. No. 986,729; Mar. 14; Sp. p. 2059; Gaz. vol. 164; p. 361.
Mattice, Charles H., Green Island, assignor to Adams Laundry Machinery Company, Troy, N. Y. Belt or apron guide. No. 996,103; June 27; Sp. p. 4366; Gaz. vol. 167; p. 790.
Mattice, Charles H., assignor to Adams Laundry Machinery Company, Troy, N. Y. Ironing-machine. No. 996,104; June 27; Sp. p. 4368; Gaz. vol. 167; p. 791.
Mattice, Charles H., assignor to Adams Laundry Machinery Company, Troy, N. Y. Pulley. No. 1,011,468; Dec. 12; Sp. p. 2399; Gaz. vol. 173; p. 410.
Mattman, Emil, Milwaukee, Wis., assignor to Allis-Chalmers Company. Commutator. No. 992,372; May 16; Sp. p. 3337; Gaz. vol. 166; p. 600.
Mattman, Emil, Milwaukee, Wis., assignor to Allis-Chalmers Company. Connector. No. 1,000,031; Aug. 8; Sp. p. 1680; Gaz. vol. 169; p. 315.
Mattman, Emil, Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Stator-coil support. No. 996,270; June 27; Sp. p. 4776; Gaz. vol. 167; p. 847.
Mattoni, Henry W., New York, N. Y. Safety device for aeroplanes. No. 1,005,258; Oct. 10; Sp. p. 1487; Gaz. vol. 171; p. 270.
Mattson, Frank A., Cumberland, Wis. Road-grader. No. 1,006,576; Oct. 24; Sp. p. 4470; Gaz. vol. 171; p. 798.
Mattsson, Alfred G., assignor to Diamond Power Specialty Co., Detroit, Mich. Blower for boilers. No. 1,003,005; Sept. 12; Sp. p. 1828; Gaz. vol. 170; p. 316.
Mattsson, Alfred G., assignor to Diamond Power Specialty Co., Detroit, Mich. Blower for boilers. No. 1,012,263; Dec. 19; Sp. p. 4197; Gaz. vol. 173; p. 720.
Mattsson, Sven. (See Sjöstrand and Petterson, assignors.)
Matz, Joseph. (See Lawson, Moses F., assignor.)
Matzat, Walter, Elmore, Minn. Peanut shelling or hulling machine. No. 983,384; Feb. 7; Sp. p. 273; Gaz. vol. 163; p. 46.
Mauck, David, Greenville, Mo. Antifriction-rail. No. 1,012,093; Dec. 19; Sp. p. 3826; Gaz. vol. 173; p. 662.
Mauck, Earl W. (See Hauser, Tracy S., assignor.)
Maud, Charles E., Monterey, Cal. Carbureter. No. 995,976; June 20; Sp. p. 4093; Gaz. vol. 167; p. 712.
Maude, William, Galt, Ontario, Canada. Cattle-stanchion. No. 995,072; June 13; Sp. p. 2155; Gaz. vol. 167; p. 374.
Mauger, Henry J., Schenectady, N. Y., assignor to General Electric Company. Electric hair-drier. No. 1,006,767; Oct. 24; Sp. p. 4860; Gaz. vol. 171; p. 863.
Maugham, John H., trustee. (See Ramage, Alexander S., assignor.)
Maul, Henry C., Detroit, Mich., assignor to Burdick & Son, Albany, N. Y. Anchor for molding cores. No. 985,823; Mar. 7; Sp. p. 108; Gaz. vol. 164; p. 23.
Maul, Max K., Brighton, Colo. Hay-stacker. No. 994,324; June 6; Sp. p. 458; Gaz. vol. 167; p. 78.
Maul, William H. (See Ford and Maul.)
Maunders, Charles, Minot, N. D. Game apparatus. No. 980,312; Jan. 3; Sp. p. 247; Gaz. vol. 162; p. 47.
Maupin, Edward, Rockport, Mo. Combined gage, rule, and square. No. 1,007,038; Oct. 24; Sp. p. 5455; Gaz. vol. 171; p. 956.
Mauran, Max, Niagara Falls, and J. H. MacMahon, La Salle, N. Y. Generating oxygen. No. 1,001,873; Aug. 29; Sp. p. 5720; Gaz. vol. 169; p. 1046.
Maurer, Frank T., Kansas City, Mo. Spring-wheel. No. 993,858; May 30; Sp. p. 6506; Gaz. vol. 166; p. 1172.
Maurer, Frederick W., *et al.* (See Bremer, Russell H., assignor.)
Maurer, George, assignor to G. Maurer, W. A. Reddy, and J. C. Twohig, Terre Haute, Ind. Locomotive ash-pan. No. 995,698; June 20; Sp. p. 3495; Gaz. vol. 167; p. 616.
Maurer, George E., Freeport, Ill. Chicken-coop. No. 1,007,956; Nov. 7; Sp. p. 696; Gaz. vol. 172; p. 108.
Maurer, Martin, Pueblo, Colo. Recording and registering attachment for weighing-scales. No. 986,640; Mar. 14; Sp. p. 1877; Gaz. vol. 164; p. 332.
Maurer, Martin, Pueblo, Colo. Railway-track scale. No. 999,386; Aug. 1; Sp. p. 387; Gaz. vol. 169; p. 68.
Maurice, Jules L., Paris, France. Nut-lock. No. 1,005,727; Oct. 10; Sp. p. 2537; Gaz. vol. 171; p. 436.
Maurino, Henry Q., Albuquerque, N. Mex., assignor of one-half to S. Selva. Stone-sawing machine. No. 995,269; June 13; Sp. p. 2532; Gaz. vol. 167; p. 438.
Mauro, Frank, assignor of one-fourth to F. Serpico, Denver, Colo. Keyhole-guard. No. 1,005,728; Oct. 10; Sp. p. 2538; Gaz. vol. 171; p. 436.
Mauser, Alfons, Ehrenfeld, Cologne, Germany. Lid for metallic vessels. No. 990,448; Apr. 25; Sp. p. 4678; Gaz. vol. 165; p. 822.
Mauser, Alfons, Ehrenfeld, Cologne, Germany. Metallic basket. No. 999,577; Aug. 1; Sp. p. 760; Gaz. vol. 169; p. 131.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Tool for automatic firearms. No. 985,190; Feb. 28; Sp. p. 4178; Gaz. vol. 163; p. 760.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Small-arm. No. 987,584; Mar. 21; Sp. p. 3831; Gaz. vol. 164; p. 683.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Fire-arm. No. 988,202; Mar. 28; Sp. p. 5193; Gaz. vol. 164; p. 921.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Trigger mechanism for automatic firearms. No. 999,326; Aug. 1; Sp. p. 253; Gaz. vol. 169; p. 47.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Cartridge-magazine. No. 999,387; Aug. 1; Sp. p. 390; Gaz. vol. 169; p. 69.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Means for fastening sights on firearms. No. 1,004,180; Sept. 26; Sp. p. 4437; Gaz. vol. 170; p. 785.
Mauser, Paul, Oberndorf-on-the-Neckar, Germany. Small-arm. No. 1,008,552; Nov. 14; Sp. p. 2087; Gaz. vol. 172; p. 357.
Mavor, Henry A., Glasgow, Scotland. Propulsion of ships. No. 983,917; Feb. 14; Sp. p. 1450; Gaz. vol. 163; p. 256.
Mavrogordato, François E., London, England. Liquid-fuel burner. No. 1,009,678; Nov. 21; Sp. p. 4528; Gaz. vol. 172; p. 779.
Mawhinney, James I., Boyce, Pa. Annunciator for baling-machines. No. 1,010,163; Nov. 28; Sp. p. 5533; Gaz. vol. 172; p. 991.
Max Ams Machine Company. (See Brenzinger, Julius, assignor.)
Maxant, Basil. (See Maxant, Frank, assignor.)
Maxant, Frank, assignor of one-half to B. Maxant, Chicago, Ill. Shaft and axle bearing. No. 991,868; May 9; Sp. p. 2218; Gaz. vol. 166; p. 396.
Maxey, Thomas W., and A. A. Estep, Fowler, Colo. River-bank protector. No. 982,621; Jan. 24; Sp. p. 5369; Gaz. vol. 162; p. 926.
Maxfield, Jacey S., Hugo, Okla. Multiple-weight motor. No. 995,977; June 20; Sp. p. 4095; Gaz. vol. 167; p. 713.
Maxim, Hudson, Hopatcong borough, N. J. A-tube or liner for ordnance. No. 981,095; Jan. 10; Sp. p. 2096; Gaz. vol. 162; p. 346.
Maxim, Hudson, Hopatcong, N. J. Explosive. No. 988,799; Apr. 4; Sp. p. 1091; Gaz. vol. 165; p. 174.
Maxim, Hudson, Hopatcong, N. J. Minimizing erosion in ordnance and preventing flareback. No. 1,005,052; Oct. 3; Sp. p. 1049; Gaz. vol. 171; p. 175.
Maxim, Hudson, New York, N. Y. Apparatus for charging or loading projectiles with high explosives. No. 988,798; Apr. 4; Sp. p. 1089; Gaz. vol. 165; p. 174.
Maxim, Hudson, Brooklyn, N. Y. Charging projectiles with high explosives. No. 988,885; Apr. 4; Sp. p. 1253; Gaz. vol. 165; p. 200.
Maxim, Hudson, Brooklyn, N. Y. Charging of projectiles with a high-explosive bursting charge. No. 988,886; Apr. 4; Sp. p. 1255; Gaz. vol. 165; p. 201.
Maxlow, George E., and A. Van Vliet, assignors of one-half to Detroit Stoker Company, Detroit, Mich. Furnace-arch. No. 1,006,111; Oct. 17; Sp. p. 3367; Gaz. vol. 171; p. 601.
Maxwell, Alice R. (See Ressler, Carthon H., assignor.)
Maxwell Automatic Folding, Wrapping & Addressing Machine Company, The. (See Maxwell, Singleton A., assignor.)
Maxwell, Benjamin V. (See Carroll, William R., assignor.)
Maxwell, David, Detroit, Mich. Roll-forging metal. No. 984,283; Feb. 14; Sp. p. 2253; Gaz. vol. 163; p. 381.
Maxwell, David, Detroit, Mich. Truss-bar for concrete construction. No. 994,325; June 6; Sp. p. 459; Gaz. vol. 167; p. 79.
Maxwell, David W. F., Sydenham, England. Sugar-cane-crushing mill. No. 1,010,164; Nov. 28; Sp. p. 5534; Gaz. vol. 172; p. 991.
Maxwell, Ernest D., Clifton Forge, Va. Pneumatic separator. No. 1,006,249; Oct. 17; Sp. p. 3710; Gaz. vol. 171; p. 652.
Maxwell, F. O., *et al.* (See Barrett, Julious E., assignor.)
Maxwell, George W., Los Angeles, Cal. Box-forming mechanism. No. 989,789; Apr. 18; Sp. p. 3217; Gaz. vol. 165; p. 563.
Maxwell, Jonathan D., Tarrytown, N. Y. Drive-axle. No. 994,019; May 30; Sp. p. 6829; Gaz. vol. 166; p. 1226.
Maxwell, Robert, Peru, Kans., assignor of one-half to H. C. Draver, Kansas City, Mo. Feed-packer. No. 1,003,006; Sept. 12; Sp. p. 1829; Gaz. vol. 170; p. 317.

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Maxwell, Singleton A., New York, N. Y., assignor, by mesne assignments, to The Maxwell Automatic Folding, Wrapping & Addressing Machine Company, Augusta, Me. Feeding mechanism for mailing-machines. No. 992,224; May 16; Sp. p. 2946; Gaz. vol. 166; p. 548.
Maxwell, Singleton A., Atlanta, Ga., assignor, by mesne assignments, to The Maxwell Automatic Folding, Wrapping & Addressing Machine Company, Augusta, Me. Mailing-machine. No. 992,225; May 16; Sp. p. 2956; Gaz. vol. 166; p. 548.
Maxwell, William, Sydenham, England. Bearing for sugar-cane-crushing mills. No. 995,699; June 20; Sp. p. 3497; Gaz. vol. 167; p. 616.
May, Charles H., Bridgewater, England. Hat-pin guard. No. 1,006,250; Oct. 17; Sp. p. 3713; Gaz. vol. 171; p. 653.
May, Edward F. (See Curtis, George W., assignor.)
May, Henri J. (See Thibault and Samwold, assignors.)
May, Henry P., assignor to H. A. Stevens, J. W. Stephens, and H. S. Julian, Kansas City, Mo. Automatic safety device for elevators. No. 982,519; Jan. 24; Sp. p. 5181; Gaz. vol. 162; p. 893.
May, Joseph, Frankfort-on-the-Main, Germany. Adjustable elastic support for concave and flat feet. No. 989,171; Apr. 11; Sp. p. 1851; Gaz. vol. 165; p. 321.
May, Louis B., New York, N. Y. Power-transmission device. No. 981,096; Jan. 10; Sp. p. 2098; Gaz. vol. 162; p. 347.
May, Louis B., New York, N. Y. Power-transmission apparatus. No. 985,427; Feb. 28; Sp. p. 4706; Gaz. vol. 163; p. 839.
May, Luke T., *et al.* (See Yon, Yancey L., assignor.)
May, Milton R. (See Kurtz and May.)
May, Otto B., New York, N. Y. Solid oil-containing medicine. No. 1,000,423; Aug. 15; Sp. p. 2586; Gaz. vol. 169; p. 481.
May, Otto B., assignor to Morgenstern & Company, New York, N. Y. Bismuth salt of iodized resorcin-sulfonic acid. No. 1,003,191; Sept. 12; Sp. p. 2217; Gaz. vol. 170; p. 381.
May, Paul, Charlottenburg, Germany. Electric-motor meter. No. 993,310; May 23; Sp. p. 5293; Gaz. vol. 166; p. 949.
May, Reynolds, Whitewright, Tex. Turbine. No. 1,001,874; Aug. 29; Sp. p. 5722; Gaz. vol. 169; p. 1046.
May, Thomas F., Brandon, Manitoba, Canada. Rail-tie. No. 992,789; May 23; Sp. p. 4189; Gaz. vol. 166; p. 774.
May, Thomas F., Lehi, Utah. Nut-lock. No. 994,528; June 6; Sp. p. 887; Gaz. vol. 167; p. 147.
May, William F. (See Jeffers, Harry I., assignor.)
Mayer, Clarence, and S. Yaffe, Chicago, Ill. Corset and bust-form therefor. No. 990,279; Apr. 25; Sp. p. 4267; Gaz. vol. 165; p. 761.
Mayer-Dinkel, Gustav, Mannheim, Germany. Garbage carting and destructing device. No. 1,009,914; Nov. 28; Sp. p. 5019; Gaz. vol. 172; p. 906.
Mayer, Frederick. (See Mayer, Henry, assignor.)
Mayer, George J., Indianapolis, Ind. Barrel-making machine. No. 1,001,766; Aug. 29; Sp. p. 5485; Gaz. vol. 169; p. 1008.
Mayer, George M., assignor to J. E. Cochran, Elkhart, Ind. Weighing-scale. No. 983,385; Feb. 7; Sp. p. 274; Gaz. vol. 163; p. 46.
Mayer, Henry, assignor of one-half to F. Mayer, St. Louis, Mo. Wheel. No. 1,001,058; Aug. 22; Sp. p. 4022; Gaz. vol. 169; p. 740.
Mayer, Henry, assignor of one-half to F. Mayer, St. Louis, Mo. Automobile. No. 1,003,768; Sept. 19; Sp. p. 3455; Gaz. vol. 170; p. 615.
Mayer, Isidor E., and O. C. Yates, Louisville, Ky. Trousers. No. 1,012,395; Dec. 19; Sp. p. 4461; Gaz. vol. 173; p. 764.
Mayer, Jacques, Berlin, Germany, assignor to Mergenthaler Linotype Company. Distributing mechanism for typographical composing-machines. No. 987,897; Mar. 28; Sp. p. 4544; Gaz. vol. 164; p. 819.
Mayer, Joshua W. (See Spaney and Mayer.)
Mayer, Julian T., assignor to J. & C. Fischer, New York, N. Y. Treadle-door. No. 992,790; May 23; Sp. p. 4190; Gaz. vol. 166; p. 774.
Mayer, Julian T., assignor to J. & C. Fischer, New York, N. Y. Rocking lever and pedal arrangement for combination-pianos. No. 999,822; Aug. 8; Sp. p. 1240; Gaz. vol. 169; p. 243.
Mayer, Katherine, Denver, Colo. Strainer or percolator attachment for coffee-pots. No. 1,012,680; Dec. 26; Sp. p. 5047; Gaz. vol. 173; p. 906.
Mayer, Louis, Mankato, Minn. Vehicle-spring. No. 1,008,422; Nov. 14; Sp. p. 1787; Gaz. vol. 172; p. 311.
Mayer, Peter, assignor of one-half to J. A. Shearer, Indianapolis, Ind. Dredge-bucket mounting. No. 998,789; July 25; Sp. p. 4783; Gaz. vol. 168; p. 864.
Mayer, Rudolf. (See Bauer, Herre, and Mayer.)
Mayer, Rudolph. (See Bauer, Herre, and Mayer.)
Mayer, Sigmund, assignor to Albert Pick & Company, Chicago, Ill. Urn. No. 994,767; June 13; Sp. p. 1472; Gaz. vol. 167; p. 270.
Mayer, Wilhelm, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Extensible ladder. No. 987,585; Mar. 21; Sp. p. 3835; Gaz. vol. 164; p. 683.
Mayers, Wilbur S., Fairmont, W. Va. Reducing-wheel for engine-indicators. No. 1,010,064; Nov. 28; Sp. p. 5340; Gaz. vol. 172; p. 958.
Mayes, Aceph B., Houston, Tex. Parachute. No. 1,009,766; Nov. 28; Sp. p. 4735; Gaz. vol. 172; p. 858.
Mayes, Frank H., East Palestine, Ohio. Ironing-board attachment. No. 1,008,171; Nov. 7; Sp. p. 1109; Gaz. vol. 172; p. 182.
Mayfield, Edwin W. (See Calkin and Mayfield.)
Mayfield, Paul, assignor of one-half to J. J. Foote, Atlanta, Ga. Trunk-fastener. No. 986,841; Mar. 14; Sp. p. 2302; Gaz. vol. 164; p. 399.
Mayfield, William A. (See Fawcett and Mayfield.)
Mayfield, William G., New York, N. Y. Amusement apparatus. No. 1,006,666; Oct. 24; Sp. p. 4648; Gaz. vol. 171; p. 828.
Mayhew, Nathaniel L., Beaumont, Tex. Aerodrome. No. 994,417; June 6; Sp. p. 657; Gaz. vol. 167; p. 112.
Mayhew, Samuel B., Adolphus, Ky. Self-setting trap. No. 996,869; July 4; Sp. p. 560; Gaz. vol. 168; p. 92.
Mayhew, Theophilus, assignor to American Promoting Company, Detroit, Mich. Steering-gear. No. 999,823; Aug. 8; Sp. p. 1242; Gaz. vol. 169; p. 243.
Mayland, Edwin S. (See Sanneman and Mayland.)
Mayle, George E., C. R. Murdock, and W. D. Belknap, Columbus, Ohio. Baking apparatus. No. 990,577; Apr. 25; Sp. p. 4964; Gaz. vol. 165; p. 867.
Maynard, Agnes G., Chicago, Ill. Adjustable cuff and sleeve protector. No. 990,280; Apr. 25; Sp. p. 4271; Gaz. vol. 165; p. 761.
Maynard, Burton J. (See Camp, Maynard, and Wise.)
Maynard, Ed, Holyoke, Mass. Burglary safeguarding apparatus. No. 991,219; May 2; Sp. p. 836; Gaz. vol. 166; p. 142.
Maynard, Edward, Detroit, Mich. Carbureter. No. 1,001,969; Aug. 29; Sp. p. 5941; Gaz. vol. 169; p. 1076.
Maynard, Harlan J., Greenwich, Conn., assignor to Thermolac Manufacturing Company, Boston, Mass. Holder for feeding or nursing bottles. No. 995,700; June 20; Sp. p. 3498; Gaz. vol. 167; p. 617.
Maynard, Joseph A. (See McAuliffe, John W., assignor.)
Maynard, Wilbur E., Northampton, Mass. Incubating apparatus. No. 981,097; Jan. 10; Sp. p. 2102; Gaz. vol. 162; p. 347.
Maynard, Wilbur E., Northampton, Mass. Humidity-regulator for incubating apparatus. No. 1,009,430; Nov. 21; Sp. p. 4058; Gaz. vol. 172; p. 700.
Mayo, Benjamin F., Salem, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Pegging-machine. No. 988,365; Apr. 4; Sp. p. 154; Gaz. vol. 165; p. 27.
Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 997,927; July 11; Sp. p. 2842; Gaz. vol. 168; p. 486.
Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Heel-nailing machine. No. 1,000,534; Aug. 15; Sp. p. 2816; Gaz. vol. 169; p. 520.
Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,003,192; Sept. 12; Sp. p. 2218; Gaz. vol. 170; p. 381.
Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for molding top-lifts. No. 1,012,681; Dec. 26; Sp. p. 5049; Gaz. vol. 173; p. 907.
Mayo, Junius E., assignor to National Sewing Machine Co., Belvidere, Ill. Hanger for electric lamps. No. 984,687; Feb. 21; Sp. p. 3120; Gaz. vol. 163; p. 552.
Mayo, Marvin, Huntsville, Mo. Dirigible headlight. No. 981,449; Jan. 10; Sp. p. 2915; Gaz. vol. 162; p. 471.
Mayo, Robert D., Grand Rapids, Mich. Metal door. No. 990,151; Apr. 18; Sp. p. 3967; Gaz. vol. 165; p. 684.
Mayo, Virginius J., New Haven, Conn. Metal-bender. No. 989,380; Apr. 11; Sp. p. 2305; Gaz. vol. 165; p. 390.
Mayo, Virginius J., New Haven, Conn. Radiator construction. No. 1,000,338; Aug. 8; Sp. p. 2366; Gaz. vol. 169; p. 418.
Mayo, Virginius J., New Haven, Conn. Radiator construction. No. 1,000,339; Aug. 8; Sp. p. 2370; Gaz. vol. 169; p. 419.
Mayo, Virginius J., and S. Gargiulo, New Haven, Conn., said Gargiulo assignor to said Mayo. Machine for making radiator-sections. No. 1,012,568; Dec. 19; Sp. p. 4800; Gaz. vol. 173; p. 825.
Mayo, William B., assignor to The Hooven, Owens, Rentschler Company, Hamilton, Ohio. Glass-grinding disk. No. 986,480; Mar. 14; Sp. p. 1543; Gaz. vol. 164; p. 276.
Mayo, William M., Richmond, Va. Bottle-holder. No. 1,005,447; Oct. 10; Sp. p. 1913; Gaz. vol. 171; p. 338.
Mayor, Enoch A., San Antonio, Tex. Piano-key mounting. No. 998,192; July 18; Sp. p. 3445; Gaz. vol. 168; p. 621.
Mayor, Enoch A., San Antonio, Tex., assignor to The Stalb-Abendschein Company, New York, N. Y. Spring-washer for piano-flanges. No. 1,010,778; Dec. 5; Sp. p. 850; Gaz. vol. 173; p. 133.
Mays, Edward G., Wilmington, Del. Mail-bag catching and delivering mechanism. No. 992,742; May 16; Sp. p. 4079; Gaz. vol. 166; p. 729.

Alphabetical list of patentees—Continued.

Maywald, Frederick J. (See Shepard and Maywald.)
Mazzeo, Gabriel, and P. Iarussi, Newark, N. J. Vehicle-wheel. No. 1,011,469; Dec. 12; Sp. p. 2401; Gaz. vol. 173; p. 410.
Mazzolini, Giuseppe, Rome, Italy. Hatch-opener. No. 989,988; Apr. 18; Sp. p. 3649; Gaz. vol. 165; p. 632.
Mazzolini, Giuseppe, Naples, Italy. Device for tightly closing and opening hinged doors on board ships from a distant point of operation. No. 1,008,978; Nov. 14; Sp. p. 3007; Gaz. vol. 172; p. 501.
McAdams, George F., New York, N. Y. Ruling-machine. No. 985,360; Feb. 28; Sp. p. 4550; Gaz. vol. 163; p. 817.
McAdams, Sylvester L., assignor to The Hale-McAdams Wheel Company, Cleveland, Ohio. Combined loose pulley and clutch. No. 1,011,355; Dec. 12; Sp. p. 2168; Gaz. vol. 173; p. 369.
McAdie, Alexander G., San Francisco, Cal. Plant-protector. No. 994,083; May 30; Sp. p. 6958; Gaz. vol. 166; p. 1247.
McAdoo, Samuel, Toronto, Ohio, assignor to National Fire Proofing Company, Pittsburg, Pa. Sewer-pipe. No. 996,023; June 20; Sp. p. 4189; Gaz. vol. 167; p. 728.
McAlister, James R., Hailesboro, N. Y. Running-gear for wagons. No. 987,586; Mar. 21; Sp. p. 3836; Gaz. vol. 164; p. 684.
McAll, Edward S., assignor to H. A. Moyer, Syracuse, N. Y. Type-writing machine. No. 997,632; July 11; Sp. p. 2157; Gaz. vol. 168; p. 382.
McAllister, Edward H., Kittanning, Pa. Metallic tie and rail-fastener. No. 1,004,886; Oct. 3; Sp. p. 753; Gaz. vol. 171; p. 120.
McAllister, Edward S. J., *et al.* (See Allatt, Thomas, assignor.)
McAllister, John E. (See Ohmer, Whistler, and McAllister.)
McAlpine, James G., Gilroy, Cal. Vehicle-wheel. No. 993,088; May 23; Sp. p. 4846; Gaz. vol. 166; p. 880.
McAlpine, Robert. (See Dawson and McAlpine.)
McAlpine, Thomas M., London, England. Means for building and reinforcing the walls of tunnels, shafts, and the like. No. 1,004,288; Sept. 26; Sp. p. 4639; Gaz. vol. 170; p. 821.
McAnany, J. S. (See Dunn, Thomas J., assignor.)
McAnarney, John S., Dalhart, Tex. Metal railway-tie. No. 1,001,420; Aug. 22; Sp. p. 4779; Gaz. vol. 169; p. 861.
McAnulty, John A., Baltimore, and J. Reaney, Jr., assignors to said J. Reaney, Jr., Sherwood, Md. Bag filling and weighing machine. No. 992,513; May 16; Sp. p. 3617; Gaz. vol. 166; p. 650.
McArdle, Arthur G., San Francisco, Cal. Globe-support. No. 982,622; Jan. 24; Sp. p. 5370; Gaz. vol. 162; p. 926.
McArdle, Edward, assignor of one-half to G. C. Schneider, Cincinnati, Ohio. Gas-mixer. No. 998,297; July 18; Sp. p. 3711; Gaz. vol. 168; p. 661.
McArdle, Frank. (See Card and McArdle.)
McArdle, Robert B. (See McArdle, William H. and R. B.)
McArdle, William H. and R. B., Camden, N. J. Sheet and envelop feeder for type-writers. No. 987,097; Mar. 14; Sp. p. 2783; Gaz. vol. 164; p. 482.
McArdle, William H. and R. B., Camden, N. J., assignors to A. J. Reach, Philadelphia, Pa. Automatic feeder for type-writers. No. 985,428; Feb. 28; Sp. p. 4713; Gaz. vol. 163; p. 839.
McArdle, William H. and R. B., Camden, N. J., assignors to A. J. Reach, Philadelphia, Pa. Automatic envelop and card feeding attachment for type-writers. No. 985,429; Feb. 28; Sp. p. 4719; Gaz. vol. 163; p. 840.
McArthur, Charles D., assignor to Blaw Collapsible Steel Centering Company, Pittsburgh, Pa. Tunnel-form. No. 1,009,848; Nov. 28; Sp. p. 4897; Gaz. vol. 172; p. 885.
McArthur, Frederick A., Springfield, Mo. Car-axle journal-brass. No. 998,914; July 25; Sp. p. 5071; Gaz. vol. 168; p. 910.
McArthur, William. (See Wiess and McArthur.)
McAtee, Daniel, Huron, S. D. Wireless check-row planter. No. 1,012,396; Dec. 19; Sp. p. 4462; Gaz. vol. 173; p. 764.
McAtee, James C., Hiwasse, Ark. Trap. No. 997,841; July 11; Sp. p. 2657; Gaz. vol. 168; p. 456.
McAtee, James J., *et al.* (See Mundy, William J., assignor.)
McAteer, John W., and G. G. Overton, Montreal, Quebec, Canada. Screw-threading die. No. 1,005,448; Oct. 10; Sp. p. 1914; Gaz. vol. 171; p. 338.
McAuliffe, John W., Chicago, Ill. Hinge for water-closet seats. No. 1,010,658; Dec. 5; Sp. p. 567; Gaz. vol. 173; p. 90.
McAuliffe, John W., New York, N. Y., assignor to J. A. Maynard, Boston, Mass. Sanitary trap. No. 997,309; July 11; Sp. p. 1509; Gaz. vol. 168; p. 274.
McAuliffe, Patrick D., Lowell, Mass. Clamp. No. 994,768; June 13; Sp. p. 1474; Gaz. vol. 167; p. 270.
McAuslin, David, Brooklyn, N. Y. Sealing-machine. No. 995,073; June 13; Sp. p. 2157; Gaz. vol. 167; p. 374.
McAvinney, Patrick F., assignor to Coffin Valve Company, Boston, Mass. Electromechanical indicator. No. 1,005,259; Oct. 10; Sp. p. 1488; Gaz. vol. 171; p. 270.
McAvinney, Patrick F., assignor to Coffin Valve Company, Boston, Mass. Electromechanical controller. No. 1,005,260; Oct. 10; Sp. p. 1491; Gaz. vol. 171; p. 271.
McAvoy, Frederick F., Charlestown, Mass. Plate-glass clamp. No. 997,202; July 4; Sp. p. 1269; Gaz. vol. 168; p. 207.
McBee, Charles F., Athens, Ohio. Loose-leaf binder. No. 998,541; July 18; Sp. p. 4203; Gaz. vol. 168; p. 745.
McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Cryptograph-machine. No. 984,832; Feb. 21; Sp. p. 3424; Gaz. vol. 163; p. 604.
McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Order-wire key. No. 985,191; Feb. 28; Sp. p. 4179; Gaz. vol. 163; p. 761.
McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Locking-key. No. 987,637; Mar. 21; Sp. p. 3939; Gaz. vol. 164; p. 701.
McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Wiring system for automatic telephone-exchanges. No. 1,000,614; Aug. 15; Sp. p. 3027; Gaz. vol. 169; p. 551.
McBerty, Frank R., New Rochelle, N. Y., assignor to Western Electric Company, Chicago, Ill. Automatic switching apparatus. No. 1,009,080; Nov. 21; Sp. p. 3237; Gaz. vol. 172; p. 574.
McBirney, James F., Hartford, Conn., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 984,284; Feb. 14; Sp. p. 2255; Gaz. vol. 163; p. 381.
McBirney, James F., Hartford, Conn., assignor to Royal Typewriter Company, New York, N. Y. Apparatus for assembling type-writing machines. No. 993,390; May 30; Sp. p. 5488; Gaz. vol. 166; p. 1011.
McBirney, James F., Hartford, Conn., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 1,010,290; Nov. 28; Sp. p. 5796; Gaz. vol. 172; p. 1033.
McBride, Edwin T., La Fayette, La. Car-mover. No. 983,154; Jan. 31; Sp. p. 6512; Gaz. vol. 162; p. 1132.
McBride, Elmer C., Santa Ana, Cal. Thermostatic control for electric heating devices. No. 989,273; Apr. 11; Sp. p. 2074; Gaz. vol. 165; p. 354.
McBride, Wm., *et al.* (See Crocker, James, assignor.)
McBurney, Matthew R., Los Angeles, Cal. Operating-table. No. 1,012,883; Dec. 26; Sp. p. 5539; Gaz. vol. 173; p. 977.
McBurney, Samuel L., Bonham, Tex. Steam-radiator. No. 989,989; Apr. 18; Sp. p. 3651; Gaz. vol. 165; p. 632.
McCabe, Frank E., and M. C. Rosenfeld; said McCabe assignor to The Grabler Manufacturing Company, Cleveland, Ohio. Floor-plate. No. 1,010,659; Dec. 5; Sp. p. 569; Gaz. vol. 173; p. 91.
McCabe, Henry, Arcola, Ill. Carrier. No. 990,060; Apr. 18; Sp. p. 3782; Gaz. vol. 165; p. 654.
McCabe, Hugh, Lawrence, Mass. Flanging-machine. No. 1,006,861; Oct. 24; Sp. p. 5085; Gaz. vol. 171; p. 897.
McCabe, John S., Bridgeville, Pa. Trolley. No. 986,842; Mar. 14; Sp. p. 2303; Gaz. vol. 164; p. 399.
McCabe, Joseph E., and F. O. Field, Spokane, Wash. Display device. No. 992,893; May 23; Sp. p. 4425; Gaz. vol. 166; p. 812.
McCabe, Michael E., Onaga, Kans. Display-rack. No. 993,859; May 30; Sp. p. 6508; Gaz. vol. 166; p. 1172.
McCabe, Patrick E. (See Harman, Joseph, assignor.)
McCabe, Thomas, Homestead, Pa. Cover attachment. No. 987,087; Mar. 14; Sp. p. 2771; Gaz. vol. 164; p. 479.
McCaffrey, Michael, Tonawanda, N. Y. Shuttle-race cover. No. 983,739; Feb. 7; Sp. p. 1029; Gaz. vol. 163; p. 165.
McCain, William M. (See Dexter and McCain.)
McCall, Arthur G., and A. B. Graham, Columbus, Ohio. Apparatus for illustrating drainage. No. 1,009,431; Nov. 21; Sp. p. 4060; Gaz. vol. 172; p. 700.
McCall, Thomas A., Columbus, assignor to The Automatic Typewriter Company, Cleveland, Ohio. Apparatus for automatically operating type-writers. No. 996,993; July 4; Sp. p. 842; Gaz. vol. 168; p. 135.
McCall, Thomas A., Columbus, assignor to The Automatic Typewriter Company, Cleveland, Ohio. Type-writer-operating mechanism. No. 1,000,741; Aug. 15; Sp. p. 3288; Gaz. vol. 169; p. 594.
McCall, Weston W., Ferris, Ill. Anti-side-draft device for plows. No. 984,581; Feb. 21; Sp. p. 2887; Gaz. vol. 163; p. 514.
McCalley, James, assignor of one-third to H. H. Campbell and one-third to J. M. Campbell, Corning, Iowa. Windmill. No. 1,003,630; Sept. 19; Sp. p. 3148; Gaz. vol. 170; p. 568.
McCallister, Clarence A., Marietta, Wash. Means for propelling boats. No. 998,193; July 18; Sp. p. 3446; Gaz. vol. 168; p. 621.
McCallum, Colin, Glasgow, assignor of one-half to W. R. Gilmour, Cambuslang, Scotland. Lock. No. 983,740; Feb. 7; Sp. p. 1030; Gaz. vol. 163; p. 165.
McCallum, De Witt C., Los Angeles, Cal. Aerodrome. No. 996,105; June 27; Sp. p. 4370; Gaz. vol. 167; p. 791.
McCallum Hosiery Company. (See Smith, Charles F., assignor.)
McCallum, Ingersoll W., Allston, Mass. Form for concrete. No. 1,005,261; Oct. 10; Sp. p. 1495; Gaz. vol. 171; p. 272.
McCallum, Murray, Neenah, Wis. Rain-water strainer. No. 996,994; July 4; Sp. p. 852; Gaz. vol. 168; p. 136.

Alphabetical list of patentees—Continued.

McCallum, William A., Cincinnati, Ohio. Hanger for trolley-wires. No. 986,843; Mar. 14; Sp. p. 2305; Gaz. vol. 164; p. 399.
McCallum, William A., Cincinnati, Ohio. Catenary suspension device for trolley-wires of electric railways. No. 995,621; June 20; Sp. p. 3342; Gaz. vol. 167; p. 589.
McCalmont, Robert. (See Ames, Oscar H., assignor.)
McCampbell, Theron, New York, N. Y. Puncturing and inking means. No. 999,824; Aug. 8; Sp. p. 1243; Gaz. vol. 169; p. 243.
McCan, David C., Los Angeles, Cal. Weighing device. No. 982,381; Jan. 24; Sp. p. 4877; Gaz. vol. 162; p. 844.
McCan, David C., Los Angeles, Cal. Measuring apparatus. No. 986,730; Mar. 14; Sp. p. 2061; Gaz. vol. 164; p. 361.
McCan, David C., Los Angeles, Cal. Fuel-press. No. 998,625; July 25; Sp. p. 4409; Gaz. vol. 168; p. 807.
McCandless, David C., Boise, Idaho. Ventilator. No. 1,001,421; Aug. 22; Sp. p. 4780; Gaz. vol. 169; p. 861.
McCandless, David C., Boise, Idaho. Developing-tank for photographic purposes. No. 1,001,422; Aug. 22; Sp. p. 4781; Gaz. vol. 169; p. 861.
McCandless, David C., Boise, Idaho. Photographic-print washer. No. 1,002,418; Sept. 5; Sp. p. 544; Gaz. vol. 170; p. 77.
McCann, Alice O., Council Bluffs, Iowa. Ice-cream freezer. No. 998,708; July 25; Sp. p. 4588; Gaz. vol. 168; p. 836.
McCann, Charles A., Blair township, Washington county, Nebr. Churn. No. 998,023; July 18; Sp. p. 3082; Gaz. vol. 168; p. 562.
McCann, James F., Minneapolis, Minn. Kettle-strainer. No. 984,954; Feb. 21; Sp. p. 3655; Gaz. vol. 163; p. 644.
McCann, Joseph, Columbus, Ohio. Attachment for hypodermic syringes. No. 1,007,471; Oct. 31; Sp. p. 6403; Gaz. vol. 171; p. 1163.
McCann, Owen, Louisville, Ky. Escapement mechanism. No. 987,153; Mar. 21; Sp. p. 2925; Gaz. vol. 164; p. 534.
McCann, Owen, Louisville, Ky. Escapement mechanism. No. 1,007,220; Oct. 31; Sp. p. 5887; Gaz. vol. 171; p. 1075.
McCann, Simon J., Chicago, Ill. Attaching means for rubbers. No. 1,002,723; Sept. 5; Sp. p. 1222; Gaz. vol. 170; p. 181.
McCanse, William, Hobart, Okla. Electric-light fixture. No. 992,969; May 23; Sp. p. 4600; Gaz. vol. 166; p. 839.
McCargar, Lorren B., St. Joseph, Mo. Grinding-mill. No. 1,002,419; Sept. 5; Sp. p. 547; Gaz. vol. 170; p. 78.
McCarter, Louis N., assignor of one-fourth to J. D. Newbold, Norristown, Pa. Blast-furnace. No. 994,175; June 6; Sp. p. 148; Gaz. vol. 167; p. 26.
McCarthy, Allan, Peterboro, Ontario, Canada. Voting-machine. No. 988,366; Apr. 4; Sp. p. 165; Gaz. vol. 165; p. 27.
McCarthy, Charles A., assignor of one-half to J. Heisler, Hattiesburg, Miss. Safety bolster-block and chain-lock. No. 1,002,292; Sept. 5; Sp. p. 243; Gaz. vol. 170; p. 32.
McCarthy, Daniel J., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Automatic signaling system. No. 1,008,172; Nov. 7; Sp. p. 1112; Gaz. vol. 172; p. 183.
McCarthy, Emmet, Chicago, Ill., assignor to Dowden Manufacturing Company, Prairie City, Iowa. Chain-link-bending machine. No. 1,011,829; Dec. 12; Sp. p. 3204; Gaz. vol. 173; p. 535.
McCarthy, Eugene H. E. C. (See Binnie and McCarthy.)
McCarthy, Felix, Pottstown, Pa. Hot-blast valve. No. 997,461; July 11; Sp. p. 1786; Gaz. vol. 168; p. 324.
McCarthy, Felix, Pottstown, Pa. Valve. No. 1,001,970; Aug. 29; Sp. p. 5943; Gaz. vol. 169; p. 1077.
McCarthy, J. M. (See Ragsdale, Charles W., assignor.)
McCarthy, James J., Chicago, Ill. Car-roof. No. 1,005,262; Oct. 10; Sp. p. 1497; Gaz. vol. 171; p. 272.
McCarthy, James M., assignor of one-half to J. W. McManama, Waltham, Mass. Separator for drain-pipes. No. 991,522; May 9; Sp. p. 1486; Gaz. vol. 166; p. 278.
McCarthy, John J., Erie, Pa., assignor of four-tenths to Erie Car Works, Incorporated. Hose-coupling. No. 997,633; July 11; Sp. p. 2160; Gaz. vol. 168; p. 383.
McCarthy, Louis, Boston, Mass. Insulator. No. 1,000,535; Aug. 15; Sp. p. 2826; Gaz. vol. 169; p. 520.
McCarthy, Mitchell F., New York, N. Y. Molding mechanism. No. 1,001,288; Aug. 22; Sp. p. 4482; Gaz. vol. 169; p. 815.
McCarthy, Thomas J., assignor to Star Carburetor Co., Detroit, Mich. Priming attachment for carbureters. No. 995,074; June 13; Sp. p. 2158; Gaz. vol. 167; p. 374.
McCarthy, William B. (See Landine, Peter N., assignor.)
McCarthy, William M., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,006,251; Oct. 17; Sp. p. 3713; Gaz. vol. 171; p. 653.
McCarthy, William T., Crosby, Minn. Lining for shafts. No. 1,008,727; Nov. 14; Sp. p. 2492; Gaz. vol. 172; p. 419.
McCarty, David F., Zanesville, Ohio. Window-shade bracket. No. 988,122; Mar. 28; Sp. p. 5045; Gaz. vol. 164; p. 895.
McCarty, Norman, assignor to Atlas Engine Works, Indianapolis, Ind. Pump. No. 984,688; Feb. 21; Sp. p. 3122; Gaz. vol. 163; p. 553.
McCarty, Norman, assignor to Atlas Engine Works, Indianapolis, Ind. Governed pump. No. 989,535; Apr. 11; Sp. p. 2647; Gaz. vol. 165; p. 445.
McCarty, Norman, assignor to Atlas Engine Works, Indianapolis, Ind. Power plant. No. 990,152; Apr. 18; Sp. p. 3969; Gaz. vol. 165; p. 685.
McCarty, Samuel H., and J. T. Hindman, assignors of one-fourth to W. W. Hallam, Grayville, Ill., and one-fourth to H. P. Owen, New Harmony, Ind. Rail-joint. No. 998,024; July 18; Sp. p. 3085; Gaz. vol. 168; p. 562.
McCaskell, Jasper A., Salt Lake City, Utah. Agitator. No. 981,098; Jan. 10; Sp. p. 2106; Gaz. vol. 162; p. 348.
McCaskey, Alfred S., Chicago, Ill. Printing-telegraph. No. 1,005,862; Oct. 17; Sp. p. 2831; Gaz. vol. 171; p. 515.
McCaskey, Alfred S., Chicago, Ill. Printing-telegraph system. No. 1,006,112; Oct. 17; Sp. p. 3369; Gaz. vol. 171; p. 601.
McCaskey, Perry A., Alliance, Ohio. Combined account and cash register. No. 1,001,875; Aug. 29; Sp. p. 5725; Gaz. vol. 169; p. 1046.
McCaskey Register Company. (See Graff, Harry H., assignor.)
McCaskey Register Company, The. (See Heil, Alfred O., assignor.)
McCaskey Register Company, The. (See Hick, Harry J., assignor.)
McCaskey Register Company, The. (See Jacobs, George, assignor.)
McCaslin, Harry M., assignor to American-La France Fire Engine Company, Elmira, N. Y. Fire-extinguisher apparatus. No. 995,883; June 20; Sp. p. 3915; Gaz. vol. 167; p. 680.
McCaslin, Harry M., assignor to American-La France Fire Engine Company, Elmira, N. Y. Fire-extinguishing apparatus. No. 995,978; June 20; Sp. p. 4097; Gaz. vol. 167; p. 713.
McCaughey, Bernard, Pawtucket, R. I. Broiler. No. 994,176; June 6; Sp. p. 150; Gaz. vol. 167; p. 26.
McCaughey, Bernard, Pawtucket, R. I. Broiling-frame. No. 995,270; June 13; Sp. p. 2533; Gaz. vol. 167; p. 438.
McCaughey, Clarence H., assignor of one-half to J. A. Roth, Rock Rapids, Iowa. Disk-grinding machine. No. 1,003,631; Sept. 19; Sp. p. 3149; Gaz. vol. 170; p. 568.
McCauley, Albert J., Chicago, Ill. Underframe for cars. No. 985,361; Feb. 28; Sp. p. 4553; Gaz. vol. 163; p. 817.
McCauley, Albert J., St. Louis, Mo., assignor to The J. S. Andrews Company, Chicago, Ill. Car-truck. No. 989,859; Apr. 18; Sp. p. 3363; Gaz. vol. 165; p. 586.
McCauley, Albert J., St. Louis, Mo., assignor to The J. S. Andrews Company, Chicago, Ill. Car-truck. No. 1,007,472; Oct. 31; Sp. p. 6404; Gaz. vol. 171; p. 1163.
McCauley, Albert J., asignor to The J. S. Andrews Company, Chicago, Ill. Car-truck. No. 1,007,473; Oct. 31; Sp. p. 6406; Gaz. vol. 171; p. 1163.
McCauley, Arthur, Muskogee, Okla. Floor oiler and waxer. No. 981,581; Jan. 10; Sp. p. 3163; Gaz. vol. 162; p. 515.
McCauley, William A., Brooklyn, N. Y. Automobile-wheel. No. 994,418; June 6; Sp. p. 660; Gaz. vol. 167; p. 113.
McCauley, William W., Madrid, Iowa. Phonograph. No. 983,155; Jan. 31; Sp. p. 6513; Gaz. vol. 162; p. 1133.
McCausland, Arthur R. (See Northrup, Blancher D., assignor.)
McCausland, Arthur R., Washington, Pa. Speed-changing mechanism. No. 1,007,958; Nov. 7; Sp. p. 700; Gaz. vol. 172; p. 109.
McCausland, Arthur R., Washington, Pa. Speed-changing mechanism. No. 1,007,959; Nov. 7; Sp. p. 703; Gaz. vol. 172; p. 109.
McCausland, Arthur R., assignor of one-half to B. D. Northrup, Washington, Pa. Speed-reversing mechanism. No. 1,007,957; Nov. 7; Sp. p. 698; Gaz. vol. 172; p. 108.
McCausland, Perkins C., Walla Walla, Wash. Bag-holder. No. 996,421; June 27; Sp. p. 5138; Gaz. vol. 167; p. 900.
McClafferty, Anthony H. (See Miller, Edward F., assignor.)
McClain, James, assignor to J. Bromley & Sons, Philadelphia, Pa. Machine for stretching and finishing rugs. No. 981,450; Jan. 10; Sp. p. 2917; Gaz. vol. 162; p. 472.
McClain, James, assignor to J. Bromley & Sons, Philadelphia, Pa. Machine for cleaning and packaging rugs. No. 1,009,432; Nov. 21; Sp. p. 4062; Gaz. vol. 172; p. 700.
McClanahan, Edward J., Eugene, Oreg. Incubator. No. 998,790; July 25; Sp. p. 4785; Gaz. vol. 168; p. 865.
McClaren, John H., West Union, Ohio. Brake-lever. No. 987,310; Mar. 21; Sp. p. 3289; Gaz. vol. 164; p. 591.
McClatchy, George H., Philadelphia, Pa. Separable demountable rim. No. 1,000,424; Aug. 15; Sp. p. 2587; Gaz. vol. 169; p. 482.
McClaughry, John G., New Albany, Ind. Index. No. 1,011,470; Dec. 12; Sp. p. 2403; Gaz. vol. 173; p. 410.
McClave-Brooks Company. (See McClave, William, assignor.)
McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Stoker. No. 984,100; Feb. 14; Sp. p. 1844; Gaz. vol. 163; p. 317.
McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Furnace. No. 988,123; Mar. 28; Sp. p. 5047; Gaz. vol. 164; p. 896.

Alphabetical list of patentees—Continued.

McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Mechanical movement for automatic stokers. No. 988,275; Mar. 28; Sp. p. 5341; Gaz. vol. 164; p. 945.
McClave, William, assignor to McClave-Brooks Company, Scranton, Pa. Turbine-blower. No. 998,709; July 25; Sp. p. 4591; Gaz. vol. 168; p. 836.
McClay, Martha M., Blue Island, Ill. Game. No. 991,523; May 9; Sp. p. 1488; Gaz. vol. 166; p. 278.
McClean, Samuel N., Cleveland, Ohio, assignor, by mesne assignments, to The Automatic Arms Company. Gas-operated gun. No. 1,003,632; Sept. 19; Sp. p. 3151; Gaz. vol. 170; p. 569.
McClean, Samuel N., Cleveland, Ohio, assignor, by mesne assignments, to The Automatic Arms Company. Automobile gun-mount. No. 1,004,887; Oct. 3; Sp. p. 754; Gaz. vol. 171; p. 121.
McClean, Samuel N., Cleveland, Ohio, assignor, by mesne assignments, to The Automatic Arms Company. Gas-operated machine-gun. No. 1,005,263; Oct. 10; Sp. p. 1499; Gaz. vol. 171; p. 273.
McCleary, Clarence F., Sunland, assignor of one-third to G. A. Flanders, Los Angeles, Cal. Gun-sight. No. 1,003,933; Sept. 19; Sp. p. 3816; Gaz. vol. 170; p. 671.
McClellan, Edward J., New York, N. Y., assignor to The Garvin Machine Company. Indexing-chuck. No. 983,918; Feb. 14; Sp. p. 1453; Gaz. vol. 163; p. 256.
McClellan, James E., Los Angeles, Cal. Ribbon-press. No. 1,006,667; Oct. 24; Sp. p. 4650; Gaz. vol. 171; p. 829.
McClellan, Samuel A., Salineville, Ohio. Draft-rigging. No. 991,733; May 9; Sp. p. 1956; Gaz. vol. 166; p. 351.
McClellan, Stephen, Brooklyn, N. Y. Foldable umbrella, tent, or canopy. No. 993,264; May 23; Sp. p. 5210; Gaz. vol. 166; p. 935.
McClelland, James D., Jr., Mount Vernon, N. Y. Reciprocating and rotary press. No. 995,271; June 13; Sp. p. 2534; Gaz. vol. 167; p. 438.
McClelland, Thomas, Jr. (See Kratt, Charles, assignor.)
McClelland, Willard D., Troy, Kans. Wagon-weighing-scale attachment. No. 987,587; Mar. 21; Sp. p. 3838; Gaz. vol. 164; p. 684.
McClelland, William H., Jr. (See Neubert and McClelland, Jr.)
McClellon, James M., Everett, Mass. Fire-box for locomotive-boilers. (Reissue.) No. 13,210; Feb. 21; Sp. p. 3968; Gaz. vol. 163; p. 701.
McClellon, James M., Everett, Mass. Locomotive-boiler. (Reissue.) No. 13,211; Feb. 21; Sp. p. 3973; Gaz. vol. 163; p. 703.
McClendon, George E., assignor of one-half of G. Zamora and one-fourth to F. Smith, Hermosillo, Mexico. Wind-wheel. No. 989,381; Apr. 11; Sp. p. 2310; Gaz. vol. 165; p. 390.
McClendon, George E., assignor of one-half to G. Zamora and one-fourth to F. Smith, Hermosillo, Mexico. Wind-motor. No. 989,509; Apr. 11; Sp. p. 2567; Gaz. vol. 165; p. 435.
McClintock, J. Y., Rochester, N. Y. Guard-rail. No. 1,012,397; Dec. 19; Sp. p. 4464; Gaz. vol. 173; p. 765.
McClintock, James L., Wichita, Kans. Game device. No. 1,002,420; Sept. 5; Sp. p. 549; Gaz. vol. 170; p. 78.
McClintock, Joel M. (See Dawson, Artemas L., assignor.)
McCloskey, Riley, Carneyville, Wyo. Car-brake. No. 989,790; Apr. 18; Sp. p. 3225; Gaz. vol. 165; p. 563.
McCloskey, William P., Pittsburg, Pa. Ferrule-valve and tube-cleaning device. No. 986,844; Mar. 14; Sp. p. 2307; Gaz. vol. 164; p. 400.
McCloud, Edward H., Columbus, Ohio. Automatic fire-resisting shutter. No. 987,154; Mar. 21; Sp. p. 2929; Gaz. vol. 164; p. 535.
McCloud, Edward H., Columbus, Ohio. Door for ovens, kilns, or other structures. No. 987,155; Mar. 21; Sp. p. 2931; Gaz. vol. 164; p. 535.
McCloud, Edward H., Columbus, Ohio. Fireproof door or shutter. No. 996,781; July 4; Sp. p. 360; Gaz. vol. 168; p. 62.
McCloud, Sidney, Chicago, Ill. Automatic busheling-furnace. No. 995,979; June 20; Sp. p. 4100; Gaz. vol. 167; p. 714.
McCloy, David A., Stratford, Ontario, Canada. Baby-carriage. No. 1,008,173; Nov. 7; Sp. p. 1114; Gaz. vol. 172; p. 183.
McClune, James W., *et al.* (See Haehn, Peter S., assignor.)
McClure, Edward, assignor of one-half to F. P. Smith, Chicago, Ill. Concrete reinforcement. No. 992,970; May 23; Sp. p. 4602; Gaz. vol. 166; p. 839.
McClure, Edward, assignor of one-half to F. P. Smith, Chicago, Ill. Store-fixture. No. 995,410; June 13; Sp. p. 2854; Gaz. vol. 167; p. 485.
McClure, W. C., *et al.* (See Christman, Daniel H., assignor.)
McCollom, Edwin P., Allegheny, Pa. Safety-razor. No. 1,006,391; Oct. 17; Sp. p. 4022; Gaz. vol. 171; p. 701.
McCollough, William A., Webster City, Iowa. Cattle-feeding trough. No. 998,973; July 25; Sp. p. 5221; Gaz. vol. 168; p. 930.
McCollum, Burton, Lawrence, Kans. Alternating-current motor. No. 984,582; Feb. 21; Sp. p. 2889; Gaz. vol. 163; p. 515.
McColly, Charles C., Rocky Ford, Colo. Wagon end-gate. No. 1,013,035; Dec. 26; Sp. p. 5881; Gaz. vol. 173; p. 1028.
McComas, Bennett C., New Paltz, N. Y. Dump-car. No. 996,422; June 27; Sp. p. 5139; Gaz. vol. 167; p. 900.
McComas, Jesse, Los Angeles, and J. F. S. Howland, Inglewood, Cal. Combination saddle-blanket and horse-cover. No. 1,001,542; Aug. 22; Sp. p. 4988; Gaz. vol. 169; p. 900.
McCombie, Alexander, Grass Valley, Cal. Rotatable hydraulic nozzle. No. 1,012,398; Dec. 19; Sp. p. 4466; Gaz. vol. 173; p. 765.
McCombie, Alexander, Grass Valley, Cal. Shoe or glove fastening. No. 1,012,399; Dec. 19; Sp. p. 4469; Gaz. vol. 173; p. 766.
McCombs, William P., Shannon, Ill. Trap. No. 1,012,400; Dec. 19; Sp. p. 4471; Gaz. vol. 173; p. 766.
McConahey, William M., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Polyphase transformer. No. 999,825; Aug. 8; Sp. p. 1247; Gaz. vol. 169; p. 244.
McConahy, Newell C., Tyrone, Pa. Switch-throwing mechanism. No. 982,623; Jan. 24; Sp. p. 5372; Gaz. vol. 162; p. 926.
McCone, Alexander J., Reno, Nev. Chilian mill. No. 1,008,046; Nov. 7; Sp. p. 860; Gaz. vol. 172; p. 138.
McCone, Alexander J., and C. Lipe, assignors to Nevada Engineering Works, Reno, Nev. Sample-grinder. No. 984,583; Feb. 21; Sp. p. 2894; Gaz. vol. 163; p. 515.
McCone, Alexander J., and R. F. Roy, assignors to Nevada Engineering Works, Reno, Nev. Chilian mill. No. 984,584; Feb. 21; Sp. p. 2897; Gaz. vol. 163; p. 515.
McConnel, John P. (See Kintz and McConnel.)
McConnell, Daniel W., deceased; M. A. McConnell, administratrix, Chest Springs, Pa. Land-roller. No. 991,466; May 2; Sp. p. 1364; Gaz. vol. 166; p. 226.
McConnell, Mary A., administratrix. (See McConnell, Daniel A.)
McConnell, William N., *et al.* (See Ross, John A., assignor.)
McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)
McConway & Torley Company. (See Kelso, Joseph, assignor.)
McConway, William, Pittsburg, Pa. Manufacturing cast-steel billets and commercial blanks. No. 993,698; May 30; Sp. p. 6183; Gaz. vol. 166; p. 1118.
McConway, William, Pittsburg, Pa. Manufacturing blanks for car wheels or tires. No. 994,020; May 30; Sp. p. 6830; Gaz. vol. 166; p. 1226.
McConway, William, Pittsburg, Pa. Producing steel bars and plates. No. 994,326; June 6; Sp. p. 461; Gaz. vol. 167; p. 79.
McCool, Henry G., Carmichaels, Pa. Riding attachment for vehicles. No. 995,363; June 13; Sp. p. 2757; Gaz. vol. 167; p. 470.
McCool, William A., Beaver Falls, Pa., assignor to Acme-Keystone Mfg. Company. Blindstitch sewing-machine. No. 983,506; Feb. 7; Sp. p. 534; Gaz. vol. 163; p. 85.
McCool, William A., Beaver Falls, Pa., assignor to Acme-Keystone Mfg. Company. Sewing-machine. No. 983,507; Feb. 7; Sp. p. 537; Gaz. vol. 163; p. 86.
McCool, William A., Beaver Falls, Pa., assignor to Acme-Keystone Manufacturing Company. Carriage-feed mechanism for type-writers. No. 1,012,884; Dec. 26; Sp. p. 5541; Gaz. vol. 173; p. 977.
McCool, William A., Beaver Falls, Pa., assignor to Hercules Tire & Rubber Company. Pneumatic tire. No. 1,011,471; Dec. 12; Sp. p. 2405; Gaz. vol. 173; p. 411.
McCord & Company. (See Dietz, William, assignor.)
McCord & Company. (See Schlacks, William J., assignor.)
McCord, J. E. (See Kainer, Frank, assignor.)
McCord, Truman, and W. C. Bigler, Rew, Pa. Well-drilling machine. No. 1,010,507; Dec. 5; Sp. p. 249; Gaz. vol. 173; p. 39.
McCormick, Anthony R., Calumet, Mich. Hose clamp and support. No. 989,382; Apr. 11; Sp. p. 2312; Gaz. vol. 165; p. 391.
McCormick, Charles, St. Louis, Mo. Bag-holder. No. 1,008,657; Nov. 14; Sp. p. 2339; Gaz. vol. 172; p. 395.
McCormick, Frank J., trustee, *et al.* (See Lyon, Joseph, assignor.)
McCormick, Frank J., Jr., *et al.* (See Lyon, Joseph, assignor.)
McCormick, George, Houston, Tex. Locomotive-pedestal. No. 980,545; Jan. 3; Sp. p. 801; Gaz. vol. 162; p. 129.
McCormick, Horace, assignor to The Complete Book-Keeper Co., Des Moines, Iowa. Indicator for duplicate-sales-slip files. No. 991,524; May 9; Sp. p. 1489; Gaz. vol. 166; p. 278.
McCormick, Hugh M., Royal Oak, Mich., assignor to American Corset Stay Company, Phoenix, Ariz. Corset-stay. No. 1,006,862; Oct. 24; Sp. p. 5088; Gaz. vol. 171; p. 897.
McCormick, Hugh M., Detroit, Mich., assignor to American Corset Stay Company, Phoenix, Ariz. Corset. No. 1,006,863; Oct. 24; Sp. p. 5090; Gaz. vol. 171; p. 898.
McCormick, John H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,012,682; Dec. 26; Sp. p. 5052; Gaz. vol. 173; p. 907.

Alphabetical list of patentees—Continued.

McCormick, Richard P., Granite, Md. Excavator. No. 993,785; May 30; Sp. p. 6363; Gaz. vol. 166; p. 1147.
McCormick, Terrill W., Denton, Tex. Square. No. 981,867; Jan. 17; Sp. p. 3766; Gaz. vol. 162; p. 637.
McCormick, William A. (See Looney, John P., assignor.)
McCotter, Charles R., Jacksonville, Fla. Life-preserver. No. 989,172; Apr. 11; Sp. p. 1853; Gaz. vol. 165; p. 321.
McCoubrie, Louden A., and C. F. Raydure, Philadelphia, Pa. Shoe for third-rail electric cars. No. 985,430; Feb. 28; Sp. p. 4726; Gaz. vol. 163; p. 840.
McCoubrie, Louden A., and C. F. Raydure, Philadelphia, Pa. Shoe for third-rail electric cars. No. 1,009,767; Nov. 28; Sp. p. 4737; Gaz. vol. 172; p. 858.
McCoy, Charles B., Fond du Lac, Wis. Brushing or polishing machine. No. 990,663; Apr. 25; Sp. p. 5160; Gaz. vol. 165; p. 894.
McCoy, Charles W., Custer, Okla. Crude-oil burner. No. 993,537; May 30; Sp. p. 5810; Gaz. vol. 166; p. 1061.
McCoy, Edward A. (See Weiss, Arthur J., assignor.)
McCoy, Elijah, assignor to Penberthy Injector Company, Detroit, Mich. Lubricator. No. 997,400; July 11; Sp. p. 1675; Gaz. vol. 168; p. 304.
McCoy, George E. (See Appleton and McCoy.)
McCoy, Henry L., and W. B. Boatright, Mathis, Tex. Hoist. No. 999,665; Aug. 1; Sp. p. 923; Gaz. vol. 169; p. 161.
McCoy, John H., Harrisville, Pa. Concrete water-tank. No. 982,080; Jan. 17; Sp. p. 4262; Gaz. vol. 162; p. 710.
McCoy, John H., Harrisville, Pa. Concrete water-tank. No. 982,081; Jan. 17; Sp. p. 4263; Gaz. vol. 162; p. 710.
McCoy, Martin, Pleasant, Ky. Adjustable ratchet-wrench. No. 1,000,277; Aug. 8; Sp. p. 2252; Gaz. vol. 169; p. 399.
McCoy, Walter E. (See Palmer and McCoy.)
McCoy, Walter E. (See Swallow and McCoy.)
McCoy, Walter E., assignor of one-third to F. W. Smith and one-third to J. G. Swallow, New York, N. Y. Connection-block. No. 993,311; May 23; Sp. p. 5294; Gaz. vol. 166; p. 950.
McCoy, Walter J., assignor of one-half to J. H. Kapietz, South Omaha, Nebr. Truck. No. 993,265; May 23; Sp. p. 5212; Gaz. vol. 166; p. 935.
McCoy, Walter J., assignor of one-half to J. H. Kopietz, South Omaha, Nebr. Truck. No. 1,000,102; Aug. 8; Sp. p. 1877; Gaz. vol. 169; p. 339.
McCrary, Pierce R., Philadelphia, Pa. Ice-making apparatus. No. 983,508; Feb. 7; Sp. p. 539; Gaz. vol. 163; p. 86.
McCray, John E., Haughville, Ind. Loading device. No. 987,809; Mar. 28; Sp. p. 4331; Gaz. vol. 164; p. 788.
McCrea, John, Millbury, Mass. Winding-frame. No. 1,005,990; Oct. 17; Sp. p. 3117; Gaz. vol. 171; p. 560.
McCready, James P., Berlin, N. H. Sleighing attachment for carriages. No. 1,003,934; Sept. 19; Sp. p. 3817; Gaz. vol. 170; p. 671.
McCready, John J., and S. Rothamel, Philadelphia, Pa. Umbrella. No. 1,008,174; Nov. 7; Sp. p. 1116; Gaz. vol. 172; p. 184.
McCreary, James A. (See Mitchell and McCreary.)
McCreary, T. W., *et al.* (See Purdy and Miller, assignors.)
McCredy, Elliott C., Clifton Springs, N. Y. Combined hammock and cot. No. 989,383; Apr. 11; Sp. p. 2313; Gaz. vol. 165; p. 391.
McCreedy, Edward J., and F. A. Phillips, Mount Clemens, Mich. Meter-box. No. 983,311; Feb. 7; Sp. p. 115; Gaz. vol. 163; p. 20.
McCreery, Jesse O., Denver, Colo. Hay-retaining device for hay-stackers. No. 983,156; Jan. 31; Sp. p. 6515; Gaz. vol. 162; p. 1133.
McCrillis, Charles D., Marshfield, Wis. Buckle. No. 1,009,768; Nov. 28; Sp. p. 4738; Gaz. vol. 172; p. 858.
McCrimmon, John D., Corsicana, Tex. Irrigating system. No. 998,253; July 18; Sp. p. 3586; Gaz. vol. 168; p. 643.
McCrory, Daniel J. (See Blauvelt, John S., assignor.)
McCrosky Reamer Company. (See Miller, Frank P., assignor.)
McCrum-Howell Company. (See Hamlin, Alfred S., assignor.)
McCue, Charles T., Hartford, Conn. Gearing. No. 1,002,858; Sept. 12; Sp. p. 1501; Gaz. vol. 170; p. 265.
McCulloch, Alexander, Edmonton, Alberta, Canada. Street-car-ticket holder. No. 1,011,981; Dec. 19; Sp. p. 3562; Gaz. vol. 173; p. 623.
McCulloch, Eldrige V., St. Louis, Mo. Attachment for traction-engines. No. 983,386; Feb. 7; Sp. p. 279; Gaz. vol. 163; p. 47.
McCulloch, Harry G., assignor to The Stover Manufacturing Company, Freeport, Ill. Windmill. No. 1,006,113; Oct. 17; Sp. p. 3376; Gaz. vol. 171; p. 602.
McCullough, David, West New Brighton, N. Y. Bathing-corset. No. 999,388; Aug. 1; Sp. p. 391; Gaz. vol. 169; p. 69.
McCullough, Edward C., Greenwich, Conn. Automobile rim-holding and tire-pumping device. No. 996,870; July 4; Sp. p. 562; Gaz. vol. 168; p. 92.
McCullough, Frank B., Indianapolis, Ind. Cake-hanger. No. 995,798; June 20; Sp. p. 3736; Gaz. vol. 167; p. 651.
McCullough, Gird. (See Fassett and McCullough.)
McCullough, James I., Davenport, Iowa. Illuminated spirit-level. No. 1,001,206; Aug. 22; Sp. p. 4330; Gaz. vol. 169; p. 788.
McCullough, John E., Chicago, Ill. Can-testing machine. No. 1,003,769; Sept. 19; Sp. p. 3457; Gaz. vol. 170; p. 615.
McCullough, Paul J., St. Louis, Mo. Demountable rim. No. 984,833; Feb. 21; Sp. p. 3426; Gaz. vol. 163; p. 604.
McCullough, Piercy B., Philadelphia, Pa. Dental swaging apparatus. No. 1,012,401; Dec. 19; Sp. p. 4473; Gaz. vol. 173; p. 766.
McCullough, Samuel A., Fallston, assignor of one-fourth to J. R. Miner, Ambridge, and one-fourth to A. H. Miller, Fallston, Pa. Wire-reel. No. 1,007,039; Oct. 24; Sp. p. 5456; Gaz. vol. 171; p. 956.
McCullough, Thomas, Kansas City, Mo. Artificial tooth. No. 988,581; Apr. 4; Sp. p. 631; Gaz. vol. 165; p. 101.
McCullough, William, San Antonio, assignor of one-half to O. Summerfield, El Paso, Tex. Mandolin. No. 989,510; Apr. 11; Sp. p. 2568; Gaz. vol. 165; p. 435.
McCully, Frank A. (See Jonah, Frank E., assignor.)
McCune, Frank R., assignor of one-half to G. S. Cornell, St. Louis, Mo. Hopper. No. 988,482; Apr. 4; Sp. p. 410; Gaz. vol. 165; p. 66.
McCune, Frank R., assignor to Acme Hoisting Machinery Company, St. Louis, Mo. Automatic dumping-bucket. No. 994,859; June 13; Sp. p. 1683; Gaz. vol. 167; p. 302.
McCune, Grant C., Chicago, Ill. Copy-holder. No. 1,004,056; Sept. 26; Sp. p. 4124; Gaz. vol. 170; p. 741.
McCune, Martin. (See Meloun and McCune.)
McCune, William H., Vandergrift, Pa. Self-cleaning still. No. 1,010,508; Dec. 5; Sp. p. 250; Gaz. vol. 173; p. 39.
McCurdy, Alexander D., Philadelphia, Pa. Photographic-printing apparatus. No. 994,475; June 6; Sp. p. 753; Gaz. vol. 167; p. 130.
McCurdy, H. U., *et al.* (See Michael, Anceal C., assignor.) (Reissue.)
McCurdy, John A. D. (See Bell, Baldwin, McCurdy, Curtiss, and Selfridge.)
McCurdy, John D., Duluth, Minn. Floor-scraper. No. 999,051; July 25; Sp. p. 5389; Gaz. vol. 168; p. 959.
McCurry, John J., Greensboro, N. C. Valve. No. 987,898; Mar. 28; Sp. p. 4547; Gaz. vol. 164; p. 819.
McCutcheon, Bertha. (See Fogalsang and McCutcheon.)
McDade, Charles A., *et al.* (See Barrett, Thomas A., assignor.)
McDade, Edward A., *et al.* (See Hornquist, Frank, assignor.)
McDade, James E., Bangor, Me. Check-hook. No. 997,462; July 11; Sp. p. 1788; Gaz. vol. 168; p. 324.
McDanel, Hibbard S. (See Peetz, McDanel, and Thompson.)
McDaniel, Alfred C., *et al.* (See Weierhauser, Henry J., assignor.)
McDaniel, Duncan K., Stewarts Point, Cal. Plastic tie. No. 1,006,492; Oct. 24; Sp. p. 4266; Gaz. vol. 171; p. 766.
McDaniel, Elza, Martinsville, Ill. Plow attachment—jointer. No. 1,004,803; Oct. 3; Sp. p. 551; Gaz. vol. 171; p. 90.
McDaniel, James, Seattle, Wash. Sieve. No. 1,006,252; Oct. 17; Sp. p. 3717; Gaz. vol. 171; p. 653.
McDaniel, Sanfield M., Granada, Minn. Trap. No. 1,002,925; Sept. 12; Sp. p. 1681; Gaz. vol. 170; p. 290.
McDavitt, John J. (See Morgan, John D., assignor.)
McDermott, C. K. (See Wilson, Samuel T., assignor.)
McDermott, Francis. (See Yanzick and McDermott.)
McDermott, Henry. (See Duval and McDermott.)
McDermott, James, Long Island City, N. Y. Gymnasium apparatus. No. 1,003,193; Sept. 12; Sp. p. 2222; Gaz. vol. 170; p. 382.
McDermott, John, Kalamazoo, Mich. Horseshoe. No. 980,655; Jan. 3; Sp. p. 1053; Gaz. vol. 162; p. 166.
McDermott, John, Dubuque, Iowa. Road-bed. No. 988,483; Apr. 4; Sp. p. 411; Gaz. vol. 165; p. 67.
McDermott, Peter, assignor of one-half to T. McDermott, Drysdale, Victoria, Australia. Plowshare. No. 1,005,729; Oct. 10; Sp. p. 2539; Gaz. vol. 171; p. 436.
McDermott, Thomas. (See McDermott, Peter, assignor.)
McDermott, William, Cambridge, assignor of one-third to E. P. Grant, Boston, Mass. Ventilator. No. 1,006,668; Oct. 24; Sp. p. 4653; Gaz. vol. 171; p. 829.
McDermott, William J., West Homestead borough, Pa. Rail-fastener. No. 995,075; June 13; Sp. p. 2160; Gaz. vol. 167; p. 375.
McDermott, William J., West Homestead, Pa. Railway appliance. No. 995,272; June 13; Sp. p. 2537; Gaz. vol. 167; p. 439.
McDonald, Archibald, Henley, near Dunedin, and A. Brown-Durie, Dunedin, New Zealand. Filtering apparatus. No. 1,006,253; Oct. 17; Sp. p. 3723; Gaz. vol. 171; p. 654.
McDonald, Bransford A. (See Babb and McDonald.)
McDonald, Charles W., assignor to International Keycode Company, San Francisco, Cal. Telegraphic-code concentrator. No. 986,400; Mar. 7; Sp. p. 1358; Gaz. vol. 164; p. 218.
McDonald, Clarence T., Oak Park, assignor to Federal Electric Company, Chicago, Ill. Means for attaching electric wall-sockets to walls. No. 992,971; May 23; Sp. p. 4604; Gaz. vol. 166; p. 840.
McDonald, Donald, Louisville, Ky. Game-counter. No. 999,666; Aug. 1; Sp. p. 926; Gaz. vol. 169; p. 162.

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McDonald, Donald, Louisville, Ky. Coke-quenching apparatus. No. 1,001,543; Aug. 22; Sp. p. 4991; Gaz. vol. 169; p. 900.
McDonald, Duncan, Montreal, Quebec, Canada. Passenger-car. No. 992,571; May 16; Sp. p. 3746; Gaz. vol. 166; p. 670.
McDonald Electrolytic Company. (See Crocker, James R., assignor.)
McDonald, Francis J. (See Tatham, James E., assignor.)
McDonald, Jeremiah S., and T. L. Way, Providence, R. I. Gas-check. No. 997,147; July 4; Sp. p. 1167; Gaz. vol. 168; p. 188.
McDonald, John, Staples, Minn. Car-chain. No. 1,000,930; Aug. 15; Sp. p. 3683; Gaz. vol. 169; p. 661.
McDonald, John M., Dubuque, Iowa, assignor to The A. Y. McDonald Manufacturing Company. Air-valve for oil-tanks. No. 980,810; Jan. 3; Sp. p. 1349; Gaz. vol. 162; p. 216.
McDonald, John M., Dubuque, Iowa, assignor to The A. Y. McDonald Mfg. Co. Bath-tub fitting. No. 1,003,770; Sept. 19; Sp. p. 3464; Gaz. vol. 170; p. 616.
McDonald, John R., Circle, Wyo., assignor to M. A. Mosle, New York, N. Y. Screen. No. 990,578; Apr. 25; Sp. p. 4966; Gaz. vol. 165; p 867.
McDonald, Joseph S., Columbus, Ohio. Backing-forming instrument for teeth. No. 995,701; June 20; Sp. p. 3499; Gaz. vol. 167; p. 617.
McDonald, Lizzie B., Rocky Mount, N. C. Fruit-picker. No. 988,484; Apr. 4; Sp. p. 413; Gaz. vol. 165; p. 67.
McDonald, Louis N., Youngstown, Ohio. Valve mechanism for regenerative furnaces. No. 987,734; Mar. 28; Sp. p. 4179; Gaz. vol. 164; p. 763.
McDonald Manufacturing Company, The A. Y. (See McDonald, John M., assignor.)
McDonald, Murdoch, Clunes, Victoria, Australia. Railway signaling mechanism. No. 991,339; May 2; Sp. p. 1100; Gaz. vol. 166; p. 184.
McDonald, Owen L., and G. Mapes, Taft, Cal. Sucker-rod. No. 1,013,036; Dec. 26; Sp. p. 5883; Gaz. vol. 173; p. 1029.
McDonald, Patrick J., assignor of one-half to G. H. Smith, Rochester, N. Y. Fuse-box. No. 995,702; June 20; Sp. p. 3501; Gaz. vol. 167; p. 617.
McDonald, Percy Z., Chicago, Ill., assignor to E. Kirstein Sons' Company, Rochester, N. Y. Eyeglasses. No. 998,626; July 25; Sp. p. 4411; Gaz. vol. 168; p. 807.
McDonald, Peter, Lynn, Mass. Ash-sifting stove. No. 983,741; Feb. 7; Sp. p. 1032; Gaz. vol. 163; p. 165.
McDonald, Stephen, Nogo, Ark. Animal-trap. No. 986,928; Mar. 14; Sp. p. 2480; Gaz. vol. 164; p. 429.
McDonald, William, Unionport, N. Y. Automatic controller for electric elevators. No. 992,226; May 16; Sp. p. 2980; Gaz. vol. 166; p. 549.
McDonald, William B. (See Farley and McDonald.)
McDonald, William G. (See Swasey, Benjamin A., assignor.)
McDonald, William H., Overton, Nev. Insect-trap. No. 1,005,567; Oct 10; Sp. p. 2203; Gaz. vol 171; p. 381.
McDonald, William R., Bellingham, assignor of sixty one-hundredths to J. E. McReynolds, Seattle, Wash. Can-labeling machine. No. 983,157; Jan. 31; Sp. p. 6517; Gaz. vol. 162; p. 1133.
McDonald, William T., Porterdale, Ga. Fertilizer-distributer. No. 997,401; July 11; Sp. p. 1677; Gaz. vol. 168; p. 305.
McDonnell, Joel, Pottsville, Pa. Automatic air-brake coupling. No. 993,182; May 23; Sp. p. 5040; Gaz. vol. 166; p. 910.
McDonnell, Thomas J., Seattle, Wash. Lock-guard. No. 1,001,157; Aug. 22; Sp. p. 4220; Gaz. vol. 169; p. 772.
McDorman, Paul, assignor to The National Laundry Machinery Company, Dayton, Ohio. Electrolytic cell. No. 1,001,876; Aug. 29; Sp. p. 5733; Gaz. vol. 169; p. 1047.
McDougall, George F. A., Dorchester, Mass. Aeroplane. No. 1,002,724; Sept. 5; Sp. p. 1223; Gaz. vol. 170; p. 182.
McDougall, Redmond. (See Beck, Walter E., assignor.)
McDougall, William M., East Orange, N. J. Train-generator and driving mechanism therefor. No. 1,007,221; Oct. 31; Sp. p. 5889; Gaz. vol. 171; p. 1076.
McDowell, Daucy, Tallulah, La. Stalk-cutter. No. 987,311; Mar. 21; Sp. p. 3291; Gaz. vol. 164; p. 591.
McDowell, David N. (See McDowell, Samuel G., assignor.)
McDowell, John G., Pittsburgh, Pa. Oscillating motor. No. 1,006,966; Oct. 24; Sp. p. 5299; Gaz. vol. 171; p. 932.
McDowell, Samuel G., assignor of one-half to D. N. McDowell, Selma, Ala. Vehicle body structure. No. 995,884; June 20; Sp. p. 3917; Gaz. vol. 167; p. 680.
McDowell, William T., St. Louis, Mo. Receptacle. No. 993,312; May 23; Sp. p. 5297; Gaz. vol. 166; p. 950.
McDuffee, Henry L., Gilroy, Cal. Resilient wheel-hub. No. 981,297; Jan. 10; Sp. p. 2571; Gaz. vol. 162; p. 419.
McDuffee, John B., and J. E. Murray, assignors of one-third to H. E. Smith, Kansas City, Mo. Loaf-molding machine. No. 1,005,264; Oct. 10; Sp. p. 1508; Gaz. vol. 171; p. 273.
McEachron, George, Forsyth, Mich. Sifter. No. 1,005,991; Oct. 17; Sp. p. 3119; Gaz. vol. 171; p. 560.
McElaney, Edward, and J. E. Malloy, Tamaqua, Pa. Window-sash. No. 984,384; Feb. 14; Sp. p. 2448; Gaz. vol. 163; p. 414.
McElhinney, Mark G., Ottawa, Ontario, Canada. Electro-therapeutic apparatus. No. 1,006,864; Oct. 24; Sp. p. 5091; Gaz. vol. 171; p. 898.
McElhone, George W. B., Binghamton, N. Y. Ball-bearing. No. 1,000,685; Aug. 15; Sp. p. 3173; Gaz. vol. 169; p. 575.
McElliott, Joseph, Louisville, Ky., assignor to The Automatic Movable Headlight Company, Toledo, Ohio. Movable headlight. No. 983,831; Feb. 7; Sp. p. 1238; Gaz. vol. 163; p. 197.
McElliott, Joseph P., assignor to The Automatic Movable Headlight Company, Toledo, Ohio. Automatic adjusting means for headlights. No. 988,008; Mar. 28; Sp. p. 4815; Gaz. vol. 164; p. 858.
McElroy, James F., Albany, N. Y. Wireless telegraphy. No. 992,791; May 23; Sp. p. 4191; Gaz. vol. 166; p. 774.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Electrical resistance. No. 982,735; Jan. 24; Sp. p. 5599; Gaz. vol. 162; p. 963.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Controller for car-door motors. No. 987,006; Mar. 14; Sp. p. 2622; Gaz. vol. 164; p. 453.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Steam-heating apparatus. No. 990,760; Apr. 25; Sp. p. 5375; Gaz. vol. 165; p. 927.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Electric heater. No. 992,728; May 16; Sp. p. 4054; Gaz. vol. 166; p. 724.
McElroy, James F., assignor to Consolidated Car Heating Company, Albany, N. Y. Controller for door-motors. No. 994,021; May 30; Sp. p. 6832; Gaz. vol. 166; p. 1226.
McElroy, James F., assignor to Consolidated Car-Heating Company, Albany, N. Y. Adjustable automatic steam-regulator. No. 996,271; June 27; Sp. p. 4778; Gaz. vol. 167; p. 847.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Electric switch. No. 1,002,595; Sept. 5; Sp. p. 922; Gaz. vol. 170; p. 138.
McElroy, James F., Albany, N. Y., assignor to Consolidated Car Heating Company. Door-motor. No. 1,002,596; Sept. 5; Sp. p. 923; Gaz. vol. 170; p. 138.
McElroy, James F., Albany, assignor, by mesne assignments, to The United States Light & Heating Company, New York, N. Y. Dynamo-mounting. No. 983,158; Jan. 31; Sp. p. 6518; Gaz. vol. 162; p. 1133.
McElroy, John H., Chicago, Ill. Automobile. No. 980,313; Jan. 3; Sp. p. 250; Gaz. vol. 162; p. 47.
McElroy, John H., Chicago, Ill. Voting-machine. No. 982,736; Jan. 24; Sp. p. 5600; Gaz. vol. 162; p. 963.
McElroy, Karl P. (See Chute and McElroy.)
McElroy, Lewis D., assignor of one-half to W. H. Bennett, Kalamazoo, Mich. Slack-adjuster for brakes. No. 1,007,474; Oct. 31; Sp. p. 6408; Gaz. vol. 171; p. 1164.
McElroy Shepherd Company. (See Akeley, Carl E., assignor.)
McElwee, Clarence E. (See Anderson and McElwee.)
McEntee, Harold P. (See Hofmann, Clifford L., assignor.)
McEwan, Charles F., Marengo, Ill., assignor to Borden's Condensed Milk Company. Agitating-machine. No. 1,007,367; Oct. 31; Sp. p. 6189; Gaz. vol. 171; p. 1127.
McFadden, Francis, Baltimore, Md., assignor of one-half to W. F. Courts, Wilkes-Barre, Pa. Rail-joint. No. 1,001,544; Aug. 22; Sp. p. 4992; Gaz. vol. 169; p. 901.
McFadden, William C., Fairfield, Iowa. Display-shelving. No. 1,009,679; Nov. 21; Sp. p. 4529; Gaz. vol. 172; p. 780.
McFarland, Benjamin M. (See Starr and McFarland.)
McFarland, Frank H., assignor to Standard Bale Wire Buckle Co., Fort Worth, Tex. Bale-tie buckle. No. 1,012,402; Dec. 19; Sp. p. 4476; Gaz. vol. 173; p. 767.
McFarlane, Albert C., Colorado Springs, Colo. Fluid-pressure tool. No. 1,010,660; Dec. 5; Sp. p. 570; Gaz. vol. 173; p. 91.
McFarlane, Duncan L., Victor, Colo. Power-drill. No. 993,699; May 30; Sp. p. 6185; Gaz. vol. 166; p. 1118.
McFarlane, Henry A., Côte St. Paul, Quebec, Canada. Knockdown shelving. No. 1,002,859; Sept. 12; Sp. p. 1503; Gaz. vol. 170; p. 266.
McFaul, Alexander D. (See Stuart, Frank, assignor.)
McFee, Donald C. (See Hachmann and McFee.)
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for working uppers over lasts. No. 988,582; Apr. 4; Sp. p. 632; Gaz. vol. 165; p. 102.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for use in the manufacture of boots and shoes. No. 999,327; Aug. 1; Sp. p. 255; Gaz. vol. 169; p. 47.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Nail-feeding mechanism. No. 1,002,421; Sept. 5; Sp. p. 551; Gaz. vol. 170; p. 78.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Nail-separating mechanism. No. 1,002,422; Sept. 5; Sp. p. 556; Gaz. vol. 170; p. 79.

Alphabetical list of patentees—Continued.

McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Apparatus employed for fastening shoe-uppers by means of wire. No. 1,003,484; Sept. 19; Sp. p. 2821; Gaz. vol. 170; p. 516.
McFeely, Ronald F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 1,008,350; Nov. 14; Sp. p. 1568; Gaz. vol. 172; p. 285.
McFell, Judson, Chicago, Ill. Signal-transmitter. No. 988,009; Mar. 28; Sp. p. 4817; Gaz. vol. 164; p. 858.
McFetridge, Joseph, Vandergrift, Pa. Making sulfuric anhydrid. No. 988,646; Apr. 4; Sp. p. 767; Gaz. vol. 165; p. 122.
McGahee, Randolph M., Tampa, Fla. Vehicle-spring. No. 999,826; Aug. 8; Sp. p. 1248; Gaz. vol. 169; p. 244.
McGahey, Richard, Walla Walla, Wash. Loaded-truck-counting apparatus. No. 1,000,278; Aug. 8; Sp. p. 2254; Gaz. vol. 169; p. 399.
McGann, Stephen E., Cleveland, Ohio. Rotary engine. No. 985,192; Feb. 28; Sp. p. 4182; Gaz. vol. 163; p. 761.
McGarrigal, Thomas, Paducah, Ky. Brake-shoe. No. 1,011,982; Dec. 19; Sp. p. 3563; Gaz. vol. 173; p. 623.
McGarrity, Joseph, Philadelphia, Pa. Cigar-case. No. 1,007,368; Oct. 31; Sp. p. 6190; Gaz. vol. 171; p. 1128.
McGarrity, Thomas, assignor to D. J. Lundy, Peterborough, Ontario, Canada. Machine for grinding spirally twisted or fluted tools. No. 997,685; July 11; Sp. p. 2266; Gaz. vol. 168; p. 401.
McGary, Austin. (See Ramsay and McGary.)
McGary, Charles W., Everett, assignor of one-half to H. L. Hildreth, Boston, Mass. Air-pump. No. 1,000,615; Aug. 15; Sp. p. 3034; Gaz. vol. 169; p. 551.
McGee, Arthur C., Olathe, Kans., assignor to G. E. Shand and R. E. Parsons, Kansas City, Mo. Blowpipe or torch. No. 1,007,588; Oct. 31; Sp. p. 6679; Gaz. vol. 171; p. 1203.
McGee, Charles B., and W. A. Williams, Harrisburg, Ark. Rotary harrow. No. 987,007; Mar. 14; Sp. p. 2628; Gaz. vol. 164; p. 454.
McGee, George W., Covello, Wash. Clothes-rack. No. 1,005,053; Oct. 3; Sp. p. 1051; Gaz. vol. 171; p. 176.
McGee, Guy. (See Young, James W., assignor.)
McGee, Wilbert R., Seattle, Wash. Ironing-board. No. 999,827; Aug. 8; Sp. p. 1249; Gaz. vol. 169; p. 244.
McGeever, William H., Greenmount, Queensland, Australia. Railway-staff. No. 982,082; Jan. 17; Sp. p. 4265; Gaz. vol. 162; p. 710.
McGeouch, William P., Somerville, Mass. Machine for cutting rubber rings. No. 983,387; Feb. 7; Sp. p. 280; Gaz. vol. 163; p. 47.
McGerry, James J. (See Mies and McGerry.)
McGerry, Min De Lin, Grand Rapids, Mich., assignor, by mesne assignments, to F. P. Mies, Chicago, Ill. Heating and ventilating system for cars and apartments. No. 986,731; Mar. 14; Sp. p. 2063; Gaz. vol. 164; p. 362.
McGerry, Min De Lin, Chicago, Ill., assignor, by mesne assignments, to F. P. Mies, Chicago, Ill. Car heating and ventilating system. No. 986,732; Mar. 14; Sp. p. 2065; Gaz. vol. 164; p. 362.
McGhan, Addison H., Washington, D. C., assignor to The McGhan Patent Scaffolding Company, Wilmington, Del. Portable scaffold. No. 982,083; Jan. 17; Sp. p. 4267; Gaz. vol. 162; p. 710.
McGhan, Addison H., Washington, D. C., assignor to The McGhan Patent Scaffolding Company, Wilmington, Del. Portable scaffold. (Reissue.) No. 13,281; Aug. 15; Sp. p. 3785; Gaz. vol. 169; p. 675.
McGhan Patent Scaffolding Company, The. (See McGhan, Addison H., assignor.)
McGibbon, William M., Gibbon, Okla. Weed-cutter for railway-tracks. No. 987,899; Mar. 28; Sp. p. 4548; Gaz. vol. 164; p. 820.
McGiff, Alexander M., New York, N. Y. Adjustable bed-spring. No. 989,173; Apr. 11; Sp. p. 1854; Gaz. vol. 165; p. 321.
McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Boom. No. 988,124; Mar. 28; Sp. p. 5050; Gaz. vol. 164; p. 896.
McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Log-loading machine. No. 1,009,542; Nov. 21; Sp. p. 4276; Gaz. vol. 172; p. 737.
McGill, Albert E., assignor to Alwin Manufacturing Company, Chicago, Ill. Folding perambulator or go-cart. No. 1,006,493; Oct. 24; Sp. p. 4268; Gaz. vol. 171; p. 767.
McGill, Chester T., Elgin, Ill. Slot-machine. No. 993,860; May 30; Sp. p. 6510; Gaz. vol. 166; p. 1173.
McGill, George W., New York, N. Y. Metallic fastening. No. 985,825; Mar. 7; Sp. p. 119; Gaz. vol. 164; p. 23.
McGill, James H. (See Meyer, Albert F. W., assignor.)
McGill, John I., assignor of one-half to M. Lapham, Buffalo, N. Y. Pile. No. 1,007,717; Nov. 7; Sp. p. 143; Gaz. vol. 172; p. 24.
McGill, John I., assignor of one-half to M. Lapham, Buffalo, N. Y. Metal piling. No. 1,007,718; Nov. 7; Sp. p. 145; Gaz. vol. 172; p. 24.
McGill, Johnstone A., New York, N. Y. Clamp for metal-covered doors and saws. No. 999,174; July 25; Sp. p. 5602; Gaz. vol. 168; p. 996.
McGill Manufacturing Company. (See Christoph, Emil A., assignor.)
McGill, Thomas, Brooklyn, N. Y. Snow-melter for manholes or sewer-pipes. No. 980,314; Jan. 3; Sp. p. 256; Gaz. vol. 162; p. 48.
McGilvray, Frank U., Carlock, Ill. Gate. No. 994,177; June 6; Sp. p. 151; Gaz. vol. 167; p. 27.
McGinley, James B., Pittsburg, Pa. Curtain-pole. No. 989,990; Apr. 18; Sp. p. 3652; Gaz. vol. 165; p. 632.
McGinness, Joseph E., Pittsburgh, Pa. Damper for heating and ventilating systems. No. 1,009,769; Nov. 28; Sp. p. 4739; Gaz. vol. 172; p. 858.
McGinnis, Simon J., Knoxville, Iowa. Combined feed-trough and rack. No. 985,047; Feb. 21; Sp. p. 3833; Gaz. vol. 163; p. 677.
McGinty, Bernard, Doylestown, Pa. Buffing-brush for bronzing, gilding, and the like. No. 992,227; May 16; Sp. p. 2982; Gaz. vol. 166; p. 549.
McGlinnen, William F., Cincinnati, Ohio. Carpet-sweeper. No. 980,875; Jan. 3; Sp. p. 1493; Gaz. vol. 162; p. 239.
McGloudy, John L., assignor of one-half to T. S. Bentley, Hartford, Conn. Toy savings-bank. No. 998,194; July 18; Sp. p. 3447; Gaz. vol. 168; p. 622.
McGonigle, Charles W., assignor to Automatic Gas Pump Company, Seattle, Wash. Automatic pump. No. 982,843; Jan. 31; Sp. p. 5846; Gaz. vol. 162; p. 1029.
McGonigle, Thomas G., Lambton Mills, Ontario, Canada. Rotary engine. No. 995,076; June 13; Sp. p. 2162; Gaz. vol. 167; p. 375.
McGoughran, Henry, *et al.* (See Bennett, David E., assignor.)
McGowan, Arthur J. (See McGowan, Henry B. and A. J.)
McGowan, Henry B. and A. J., Hurley, Okla. Shoestring-fastener. No. 1,007,369; Oct. 31; Sp. p. 6191; Gaz. vol. 171; p. 1128.
McGowan, James, St. Louis, Mo. Engine-governor. No. 983,159; Jan. 31; Sp. p. 6522; Gaz. vol. 162; p. 1134.
McGowan, Owen J., New York, N. Y. Throttling device for marine engines. No. 1,003,057; Sept. 12; Sp. p. 1924; Gaz. vol. 170; p. 332.
McGown, Charles A., New York, N. Y. Box or crate. No. 987,250; Mar. 21; Sp. p. 3151; Gaz. vol. 164; p. 570.
McGrail, Thomas M., and J. W. Renfro, deceased, Centralia, Wash.; M. E. Renfro, administratrix. Fruit-picker. No. 999,389; Aug. 1; Sp. p. 393; Gaz. vol. 169; p. 69.
McGranighan, John, Roxboro, Pa. Pile-tube. No. 986,819; Mar. 14; Sp. p. 2260; Gaz. vol. 164; p. 391.
McGrann, Richard P., Lancaster, Pa. Medicine-bottle. No. 1,002,293; Sept. 5; Sp. p. 248; Gaz. vol. 170; p. 33.
McGrath, Benjamin F., McConnelsville, Ohio. Ticket-vending machine. No. 992,024; May 9; Sp. p. 2521; Gaz. vol. 166; p. 449.
McGrath, John A., St. Louis, Mo. Vehicle-brake. No. 996,871; July 4; Sp. p. 564; Gaz. vol. 168; p. 92.
McGrath, John A., Hancock, Mich. Tooth-brush holder. No. 997,402; July 11; Sp. p. 1679; Gaz. vol. 168; p. 305.
McGrath, John A., St. Louis, Mo. Vehicle-brake. No. 1,009,081; Nov. 21; Sp. p. 3247; Gaz. vol. 172; p. 574.
McGrath, John T., Battle Creek, Mich. Traveling shears. No. 997,686; July 11; Sp. p. 2268; Gaz. vol. 168; p. 401.
McGrath, Monroe M. (See Cronkhite, Roy K., assignor.)
McGrath, Nicholas B., Southington, Conn. Square. (Reissue.) No. 13,236; May 9; Sp. p. 2760; Gaz. vol. 166; p. 489.
McGrath, Thomas, New Britain, Conn. Crucible-cover. No. 982,437; Jan. 24; Sp. p. 4988; Gaz. vol. 162; p. 863.
McGraw, William E., Cleveland, Ohio. Smoke-preventer for furnaces. No. 1,002,725; Sept. 5; Sp. p. 1226; Gaz. vol. 170; p. 182.
McGreevey, John A., Delphi, Ind. Land-anchoring. No. 991,525; May 9; Sp. p. 1491; Gaz. vol. 166; p. 279.
McGregor, Allan L., Chicago, Ill. Automobile-buffer. No. 992,228; May 16; Sp. p. 2983; Gaz. vol. 166; p. 549.
McGregor, Allan L., Chicago, Ill. Automobile-buffer. No. 1,010,661; Dec. 5; Sp. p. 574; Gaz. vol. 173; p. 92.
McGregor, Frank R., Chicago, Ill. Heater or the like. No. 996,657; July 4; Sp. p. 128; Gaz. vol. 168; p. 22.
McGregor, William F. (See Jonasson, Nils, assignor.)
McGrevy, Jeremiah, assignor to Solidarity Watch Case Co., Brooklyn, N. Y. Watch-pendant. No. 1,007,128; Oct. 31; Sp. p. 5684; Gaz. vol. 171; p. 1042.
McGriff, John N., Anderson, Ind. Crank. No. 991,340; May 2; Sp. p. 1103; Gaz. vol. 166; p. 184.
McGrory, Henry A., Detroit, Mich. Elevator-controlling mechanism. No. 1,002,294; Sept. 5; Sp. p. 249; Gaz. vol. 170; p. 33.
McGrory, Henry A., Detroit, Mich. Safety device for elevator-doors. No. 1,007,475; Oct. 31; Sp. p. 6410; Gaz. vol. 171; p. 1164.
McGuigan, James J., assignor of one-half to E. R. O'Hearn, Toronto, Ontario, Canada. Automatic feeding device. No. 983,919; Feb. 14; Sp. p. 1456; Gaz. vol. 163; p. 257.
McGuiness, Benjamin F., Saundersville, Mass., assignor to Crompton & Knowles Loom Works. Mechanical filling-detector for weft-replenishing looms. No. 988,728; Apr. 4; Sp. p. 953; Gaz. vol. 165; p. 151.
McGuire, Amanda M. (See McGuire, Edward H. and A. M.)
McGuire, Daniel H., Pledger, Tex. Cotton-seed planter. No. 993,183; May 23; Sp. p. 5041; Gaz. vol. 166; p. 910.

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McGuire, Edward H. and A. M., Los Angeles, Cal. Amalgamator. No. 994,476; June 6; Sp. p. 768; Gaz. vol. 167; p. 130.
McGuire, Frank, assignor to A. E. Kaltschmidt, Detroit, Mich. Switch-operating mechanism. No. 993,089; May 23; Sp. p. 4847; Gaz. vol. 166; p. 880.
McGuire, John A., Denver, Colo. Weighing-scale. No. 1,001,666; Aug. 29; Sp. p. 5264; Gaz. vol. 169; p. 974.
McGuire, John J., Chicago, and H. H. Graham, Oak Park, Ill. Power-transmission apparatus. No. 990,999; May 2; Sp. p. 360; Gaz. vol. 166; p. 62.
McGuire, Michael G., Niagara Falls, N. Y. Coupling device. No. 992,373; May 16; Sp. p. 3338; Gaz. vol. 166; p. 601.
McGuire, Michael G., Chicago, Ill. Air compressor and distributer. No. 1,002,295; Sept. 5; Sp. p. 251; Gaz. vol. 170; p. 34.
McGuire, Michael G., Chicago, Ill. Cushioning device for vehicles. No. 1,005,449; Oct. 10; Sp. p. 1916; Gaz. vol. 171; p. 338.
McGuire, Patrick J., New York, N. Y. Pipe-wrench. No. 1,001,423; Aug. 22; Sp. p. 4784; Gaz. vol. 169; p. 862.
McGuire, Thomas J. (See Davies, Charles W. T., assignor.)
McGuire, Willard L. (See Shields and McGuire.)
McGuire, William, and L. H. Kinney, Clifton, Pa. Automatic block-signal joint. No. 992,374; May 16; Sp. p. 3341; Gaz. vol. 166; p. 601.
McGuire, William F., Rockford, Ill. Air purifier, moistener, and heater. No. 1,006,577; Oct. 24; Sp. p. 4473; Gaz. vol. 171; p. 798.
McGuirl, John J., Monaca, assignor of one-third to M. Hapach, Colona, Pa. Metallic tie and rail-fastener. No. 1,002,070; Aug. 29; Sp. p. 6134; Gaz. vol. 169; p. 1109.
McGurk, Thomas B. (See Rice, Alvey J., assignor.)
McHaffie, William, New York, N. Y. Power-transmitting mechanism. No. 1,007,222; Oct. 31; Sp. p. 5891; Gaz. vol. 171; p. 1076.
McHale, Frank, *et al.* (See Deeds, Fred F., assignor.)
McHale, Martin, Phoenix, British Columbia, Canada. Rock-drill making and sharpening machine. No. 1,001,545; Aug. 22; Sp. p. 4994; Gaz. vol. 169; p. 901.
McHardy, James A., and C. A. Potter, assignors to Allen Fire Department Supply Company, Providence, R. I. Carbureter. No. 985,431; Feb. 28; Sp. p. 4727; Gaz. vol. 163; p. 840.
McHardy, James A., and C. A. Potter, assignors to Allen Fire Department Supply Company, Providence, R. I. Carbureter. No. 988,800; Apr. 4; Sp. p. 1093; Gaz. vol. 165; p. 174.
McHargue, Alma T. and O. F., Columbus, Mont. Dish washer and drainer. No. 1,001,059; Aug. 22; Sp. p. 4025; Gaz. vol. 169; p. 741.
McHargue, Oscar F. (See McHargue, Alma T. and O. F.)
McHench, Andrew, Fargo, N. D. Tamper for block-molds. No. 988,367; Apr. 4; Sp. p. 168; Gaz. vol. 165; p. 28.
McHenry, Daniel, *et al.* (See Milne, James W., assignor.)
McHenry, Earle O., Hoytville, Ohio. Spring-frame for rugs and carpets. No. 1,007,301; Oct. 31; Sp. p. 6049; Gaz. vol. 171; p. 1104.
McHenry, Edwin H., New Haven, Conn. Solar-heat motor. No. 984,585; Feb. 21; Sp. p. 2898; Gaz. vol. 163; p. 516.
McHenry, Edwin H., New Haven, Conn. Solar-heat motor. No. 991,161; May 2; Sp. p. 714; Gaz. vol. 166; p. 121.
McHenry, Ernest L. (See Domarus, George V., Jr., assignor.)
McHenry, Samuel B., Chicago, Ill. Propelling mechanism for aerodromes. No. 1,006,967; Oct. 24; Sp. p. 5302; Gaz. vol. 171; p. 932.
McHenry, Samuel B., Chicago, Ill. Boat-propeller. No. 1,008,553; Nov. 14; Sp. p. 2089; Gaz. vol. 172; p. 357.
McHugh, Philip M., *et al.* (See Hills, Leon P., assignor.)
McIlvried, Edwin J. (See Ellis and McIlvried.)
McIlvried, Edwin J., Pittsburg, Pa. Wire-working machine. No. 999,052; July 25; Sp. p. 5390; Gaz. vol. 168; p. 959.
McIlvried, Edwin J., assignor to United Engineering & Foundry Company, Pittsburg, Pa. Manipulator. No. 990,761; Apr. 25; Sp. p. 5377; Gaz. vol. 165; p. 928.
McInteer, Joseph, Franklin, Ky. Wire-fence stretcher. No. 1,010,441; Dec. 5; Sp. p. 74; Gaz. vol. 173; p. 15.
McIntire, Elwood W. (See Davis, Frank R. and L. H., assignors.)
McIntosh, Donald J., Denton, Mont. Plow. No. 988,203; Mar. 28; Sp. p. 5194; Gaz. vol. 164; p. 921.
McIntosh, Frederick F. (See Russ, John D., assignor.)
McIntosh, Virginia C., Sharpsburg, Pa. Combined mop holder and wringer. No. 1,012,142; Dec. 19; Sp. p. 3933; Gaz. vol. 173; p. 680.
McIntosh, William. (See Shaw, John W., assignor.)
McIntosh, William, Plainview, N. J. Automatic truck-cellar for locomotives. No. 1,011,983; Dec. 19; Sp. p. 3565; Gaz. vol. 173; p. 623.
McIntyre, Elmer E., Pittsburg, Pa. Electrical welding-machine. No. 986,845; Mar. 14; Sp. p. 2308; Gaz. vol. 164; p. 400.
McIntyre, Henry K., New York, N. Y. Electrical conductor. No. 1,008,423; Nov. 14; Sp. p. 1788; Gaz. vol. 172; p. 311.
McIntyre, John, Jersey City, N. J. Contact for induction-coils. No. 985,193; Feb. 28; Sp. p. 4184; Gaz. vol. 163; p. 762.
McIntyre, John, Jersey City, N. J. Induction-coil. No. 1,003,633; Sept. 19; Sp. p. 3154; Gaz. vol. 170; p. 569.
McIntyre, John, Jersey City, N. J. Induction-coil. No. 1,003,634; Sept. 19; Sp. p. 3158; Gaz. vol. 170; p. 569.
McIntyre, John J. (See Spencer, Louis R., assignor.)
McIntyre, John J., Hartford, Conn. Air-pump. No. 1,001,667; Aug. 29; Sp. p. 5266; Gaz. vol. 169; p. 974.
McIntyre, Malcolm, New York, N. Y. Loading apparatus. No. 1,010,291; Nov. 28; Sp. p. 5799; Gaz. vol. 172; p. 1033.
McIntyre, Malcolm, assignor to Bergen Point Iron Works, New York, N. Y. Hoisting apparatus. No. 1,004,451; Sept. 26; Sp. p. 4975; Gaz. vol. 170; p. 875.
McIntyre, Michael M., assignor to The Perfection Spring Company, Cleveland, Ohio. Vehicle-spring. No. 991,000; May 2; Sp. p. 362; Gaz. vol. 166; p. 63.
McIntyre, P., *et al.* (See Goodlett, Joseph E. J., assignor.)
McIntyre, Parmer O., Binghamton, N. Y. Display-rack for rocking-chairs. No. 987,078; Mar. 14; Sp. p. 2754; Gaz. vol. 164; p. 476.
McIntyre, Robert S., Riverside, Cal. Solar water-heater. No. 1,004,888; Oct. 3; Sp. p. 758; Gaz. vol. 171; p. 121.
McIntyre, Thomas A., Jr. (See Cheston and McIntyre.)
McIntyre, Vincent, and F. Donohue, Philadelphia, Pa. Bolt and nut. No. 985,269; Feb. 28; Sp. p. 4371; Gaz. vol. 163; p. 788.
McKam, Lawrence G., assignor to The Standard Saw Manufacturing Company, Detroit, Mich. Saw swage and shaper. No. 992,135; May 9; Sp. p. 2741; Gaz. vol. 166; p. 486.
McKane, Calvert T., Beaver Falls, Pa. Folding and guiding attachment for sewing-machines. No. 983,388; Feb. 7; Sp. p. 283; Gaz. vol. 163; p. 48.
McKaughan, Archie B., Stephensport, Ky. Cross-tie. No. 995,980; June 20; Sp. p. 4105; Gaz. vol. 167; p. 714.
McKay, Augusta P., Sheffield, Ala. Reversible disk plow. No. 987,477; Mar. 21; Sp. p. 3631; Gaz. vol. 164; p. 647.
McKay, Frank C. (See Thomas, Charles E., assignor.)
McKay, Frederick S., Sherbrooke, Quebec, Canada, assignor of one-fourth to J. H. Bury, Casper, Wyo. Asbestos-separator. No. 1,010,779; Dec. 5; Sp. p. 853; Gaz. vol. 173; p. 133.
McKay, James, Philadelphia, Pa. Pleasure-railway. No. 1,000,742; Aug. 15; Sp. p. 3292; Gaz. vol. 169; p. 595.
McKay, John L., assignor to The American Table Protector Company, Minneapolis, Minn. Table-top protector. No. 983,920; Feb. 14; Sp. p. 1458; Gaz. vol. 163; p. 257.
McKay, Joseph L., Farmer City, Ill. Convertible chair. No. 989,718; Apr. 18; Sp. p. 3051; Gaz. vol. 165; p. 538.
McKay, Malcolm G. (See Squyars, Alexander E., assignor.)
McKay, Ralph D. (See Litchfield and McKay.)
McKay, William A., assignor of one-tenth to J. S. Lewis, Tacoma, Wash. Apparatus for sealing cans. No. 998,542; July 18; Sp. p. 4204; Gaz. vol. 168; p. 745.
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Tension device. No. 1,007,787; Nov. 7; Sp. p. 313; Gaz. vol. 172; p. 49.
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Tension device. No. 1,009,164; Nov. 21; Sp. p. 3402; Gaz. vol. 172; p. 602.
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Gassing apparatus. No. 1,011,356; Dec. 12; Sp. p. 2172; Gaz. vol. 173; p. 370.
McKechnie, Alexander, Birmingham, and F. G. Beasley, Smethwick, near Birmingham, England. Separating metallic compounds. No. 981,451; Jan. 10; Sp. p. 2920; Gaz. vol. 162; p. 472.
McKechnie, James H., Montreal, Quebec, Canada. Rubber boot jack. No. 1,011,069; Dec. 5; Sp. p. 1457; Gaz. vol. 173; p. 231.
McKee, Arthur G., Cleveland, Ohio. Closure for blast-furnace stoves. No. 983,632; Feb. 7; Sp. p. 805; Gaz. vol. 163; p. 129.
McKee, Arthur G., Cleveland, Ohio. Blast-furnace stove. No. 983,633; Feb. 7; Sp. p. 806; Gaz. vol. 163; p. 129.
McKee, Arthur G., Cleveland, Ohio. Car. No. 1,011,219; Dec. 12; Sp. p. 1845; Gaz. vol. 173; p. 320.
McKee, Garnet W., assignor to Eclipse Fuel Engineering Company, Rockford, Ill. Meter connection. No. 1,004,057; Sept. 26; Sp. p. 4125; Gaz. vol. 170; p. 741.
McKee, George F., Aspinwall, assignor of one-half to J. T. Heumiller, Pittsburg, Pa. Combination-tool. No. 989,625; Apr. 18; Sp. p. 2865; Gaz. vol. 165; p. 506.
McKee, Henry B., Lakehurst, N. J. Fountain-pen filler. No. 982,283; Jan. 24; Sp. p. 4681; Gaz. vol. 162; p. 809.
McKee, James S., Marshall, Mo. Pile-supporter. No. 1,000,833; Aug. 15; Sp. p. 3485; Gaz. vol. 169; p. 627.
McKee, Jasper N., Indianapolis, Ind. Smoke-preventing furnace. No. 990,368; Apr. 25; Sp. p. 4477; Gaz. vol. 165; p. 792.
McKee, John A., Philadelphia, Pa. Concrete column. No. 986,733; Mar. 14; Sp. p. 2070; Gaz. vol. 164; p. 362.

Alphabetical list of patentees—Continued.

McKee, John S., Pittsburg, Pa., and J. F. Schnabel, New York, N. Y. Safety dynamic braking system for hoists. No. 982,284; Jan. 24; Sp. p. 4683; Gaz. vol. 162; p. 810.
McKee, Milton A., Westerly, R. I., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Treatment of printing-plates. No. 988,583; Apr. 4; Sp. p. 639; Gaz. vol. 165; p. 102.
McKee, Robert, Philadelphia, Pa. Hand starting device for explosive-engines. No. 993,090; May 23; Sp. p. 4848; Gaz. vol. 166; p. 881.
McKee, Robert, Warsaw, N. Y. Plow. No. 994,769; June 13; Sp. p. 1476; Gaz. vol. 167; p. 271.
McKee, Walter S., Glencoe, Ill., and P. M. Vilas, Minneapolis, Minn., assignors to Edgar Allen American Manganese Steel Company, Augusta, Me. Excavating-dipper. No. 1,001,289; Aug. 22; Sp. p. 4484; Gaz. vol. 169; p. 815.
McKee, William E., Bisbee, Ariz. Steam-generator. No. 1,001,290; Aug. 22; Sp. p. 4486; Gaz. vol. 169; p. 815.
McKeel, George A., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Mold-making machine. No. 982,971; Jan. 31; Sp. p. 6131; Gaz. vol. 162; p. 1071.
McKeen Motor Car Company. (See McKeen, William R., Jr., assignor.)
McKeen, Richard T., Silerville, Ky. Loading-machine. No. 1,002,534; Sept. 5; Sp. p. 794; Gaz. vol. 170; p. 116.
McKeen, Thomas L., Easton, Pa. Car-buffer. No. 985,533; Feb. 28; Sp. p. 4960; Gaz. vol. 163; p. 877.
McKeen, Thomas L., Easton, Pa. Draft-gear. No. 987,312; Mar. 21; Sp. p. 3292; Gaz. vol. 164; p. 591.
McKeen, William H., Denver, Colo. Flying-machine. No. 1,004,058; Sept. 26; Sp. p. 4126; Gaz. vol. 170; p. 741.
McKeen, William R., Jr., Omaha, Nebr. Piston-rod. No. 982,972; Jan. 31; Sp. p. 6133; Gaz. vol. 162; p. 1072.
McKeen, William R., Jr., assignor, by mesne assignments, to McKeen Motor Car Company, Omaha, Nebr. Motor-truck construction. No. 980,546; Jan. 3; Sp. p. 804; Gaz. vol. 162; p. 129.
McKeen, William R., Jr., assignor, by mesne assignments, to McKeen Motor Car Company, Omaha, Nebr. Lubricating apparatus. No. 986,734; Mar. 14; Sp. p. 2070; Gaz. vol. 164; p. 363.
McKeen, William R., Jr., assignor, by mesne assignments, to McKeen Motor Car Company, Omaha, Nebr. Power-controlling mechanism. No. 1,002,597; Sept. 5; Sp. p. 927; Gaz. vol. 170; p. 138.
McKeeth, Allen L., assignor of one-half to W. B. McKeeth, Los Angeles, Cal. Flying-machine. No. 998,791; July 25; Sp. p. 4787; Gaz. vol. 168; p. 865.
McKeeth, Willet B. (See McKeeth, Allen L., assignor.)
McKellar, Cecil G., Christchurch, New Zealand. Chain-adjustment device for rear-wheel fittings of cycles. No. 1,001,971; Aug. 29; Sp. p. 5945; Gaz. vol. 169; p. 1077.
McKellar, Cecil G., Christchurch, New Zealand. Chain-adjustment device for cycles. No. 1,001,972; Aug. 29; Sp. p. 5946; Gaz. vol. 169; p. 1077.
McKellar, Clyde, Chicago, Ill. Amalgamator. No. 1,003,118; Sept. 12; Sp. p. 2063; Gaz. vol. 170; p. 356.
McKelvey, George H. (See Woodbury and McKelvey.)
McKelvey, William W., assignor to The William B. Pollock Company, Youngstown, Ohio. Hot-metal car. No. 1,004,548; Sept. 26; Sp. p. 5167; Gaz. vol. 170; p. 908.
McKendrick, William G. (See Wallace, Edwin C., assignor).
McKenna, James A., Pittsburg, Pa. Tie and rail-fastener. No. 998,368; July 18; Sp. p. 3872; Gaz. vol. 168; p. 687.
McKenna, John T., New Canton, Va. Non-refillable bottle. No. 980,656; Jan. 3; Sp. p. 1054; Gaz. vol. 162; p. 167.
McKennan, Jacob B., Pueblo, Colo. Blast-furnace-charging apparatus. No. 980,811; Jan. 3; Sp. p. 1353; Gaz. vol. 162; p. 217.
McKenney, Ora, Edinburg, Ind. Railway-switch. No. 983,560; Feb. 7; Sp. p. 673; Gaz. vol. 163; p. 104.
McKenzie, Alexander S., New York, N. Y. Making food products. No. 994,178; June 6; Sp. p. 154; Gaz. vol. 167; p. 27.
McKenzie, Angus, Canton, Ohio, assignor of one-half to W. H. Meldon, Jamaica, N. Y. Aerial propeller. No. 1,001,291; Aug. 22; Sp. p. 4492; Gaz. vol. 169; p. 816.
McKenzie, Charles L., Pittsburgh, Pa. Dipper construction. No. 1,009,254; Nov. 21; Sp. p. 3639; Gaz. vol. 172; p. 635.
McKenzie, Colin B., Chicago, Ill. Aeroplane. No. 1,009,770; Nov. 28; Sp. p. 4741; Gaz. vol. 172; p. 859.
McKenzie, Duncan, and W. J. Morrison, Winnipeg, Manitoba, Canada. High and low pressure testing device. No. 982,520; Jan. 24; Sp. p. 5183; Gaz. vol. 162; p. 893.
McKenzie, John C., *et al.* (See Hardwick, Joseph H., assignor.)
McKenzie, Thomas J., assignor of one-fourth to T. G. and C. A. Peck, Barberton, Ohio. Tire-cleat. No. 998,369; July 18; Sp. p. 3873; Gaz. vol. 168; p. 688
McKenzie, William C., *et al.* (See Markham, Charles E., assignor.)
McKeon, Harry J., Saybrook, Ill. Jeweler's pliers. No. 1,004,289; Sept. 26; Sp. p. 4642; Gaz. vol. 170; p. 821.
McKeown, Joseph B., Union Hill, N. J. Steam-trap. No. 985,362; Feb. 28; Sp. p. 4556; Gaz. vol. 163; p. 817.
McKeown, Joseph B., Union Hill, N. J., assignor, by mesne assignments, to Public Safety Company. Elevator-lock. No. 990,281; Apr. 25; Sp. p. 4272; Gaz. vol. 165; p. 762.
McKeown, William C., assignor to Buffalo Radiator Company, Buffalo, N. Y. Water heater or boiler. No. 996,995; July 4; Sp. p. 854; Gaz. vol. 168; p. 136.
McKeown, William C., assignor to Buffalo Radiator Company, Buffalo, N. Y. Radiator. No. 1,008,844; Nov. 14; Sp. p. 2729; Gaz. vol. 172; p. 459.
McKernan, Thomas W., and W. H. Bedard, Strathcona, Alberta, Canada. Mechanism for unloading hay-racks. No. 992,894; May 23; Sp. p. 4426; Gaz. vol. 166; p. 812.
McKibben, Charles W., Beaumont, Tex. Telephone system. No. 1,004,290; Sept. 26; Sp. p. 4643; Gaz. vol. 170; p. 822.
McKibbin, Herbert L., Clayton, Mo. Combined hoe and rake. No. 987,008; Mar. 14; Sp. p. 2629; Gaz. vol. 164; p. 454.
McKie, William R. (See Mowbray, James W., assignor.)
McKiel, James B. (See Bell and McKiel.)
McKim, Wilmer E., New Kensington, Pa. Tie and rail-fastener. No. 1,012,683; Dec. 26; Sp. p. 5057; Gaz. vol. 173; p. 907.
McKinley, Jeremiah S. (See Brown, Hayes, assignor.)
McKinley, Jeremiah S., Orient, and H. Brown, Harrisburg, Ohio; said Brown assignor to said McKinley. Clamping-tool. No. 991,628; May 9; Sp. p. 1719; Gaz. vol. 166; p. 316.
McKinney, Charles O., and L. Perry, Bethany, Ill. Rivet anvil and remover. No. 1,008,424; Nov. 14; Sp. p. 1793; Gaz. vol. 172; p. 312.
McKinney, Eva J., Colorado Springs, Colo. Waist and skirt supporter. No. 987,900; Mar. 28; Sp. p. 4549; Gaz. vol. 164; p. 820.
McKinney, Grant, Lake Carrier, Miss. Saw-handle. No. 1,008,658; Nov. 14; Sp. p. 2341; Gaz. vol. 172; p. 395.
McKinney, J. I., *et al.* (See Moore, Louis S., assignor.)
McKinney, James W. (See Fahy, William C., assignor.)
McKinney, John W., Tyrone, Pa. Lid for ice-cream tubs. No. 1,004,668; Oct. 3; Sp. p. 250; Gaz. vol. 171; p. 44.
McKinney Manufacturing Company. (See Murdock, Robert L., assignor.)
McKinney, Pliant, Argenta, Ark. Lubricating device. No. 980,876; Jan. 3; Sp. p. 1496; Gaz. vol. 162; p. 240.
McKinney, Ralph W., *et al.* (See Wilson, Henry E., assignor.)
McKinney, William A., Gainesville, Ga. Traction-wheel. No. 980,981; Jan. 10; Sp. p. 1841; Gaz. vol. 162; p. 307.
McKinney, William H., Sumter, S. C. Device for hairing violin-bows. No. 993,184; May 23; Sp. p. 5042; Gaz. vol. 166; p. 910.
McKinnon, Charles A., St. Louis, Mo., assignor to McTan Chemical Company, Phoenix, Ariz. Nap-raising detergent and disinfectant for worn woolens, serges, and other goods. No. 991,869; May 9; Sp. p. 2220; Gaz. vol. 166; p. 396.
McKinnon Dash Company. (See Notman, Robert L., assignor.)
McKinnon, David A., Manchester, Mass. Stamping-pad. No. 1,007,589; Oct. 31; Sp. p. 6680; Gaz. vol. 171; p. 1203.
McKinnon, James W., Rutherford, N. J. Siftless lock-box. No. 1,005,265; Oct. 10; Sp. p. 1511; Gaz. vol. 171; p. 273.
McKinnon, John D. (See Stewart and McKinnon.)
McKinnon, Martin, *et al.* (See Gay, Edward O., assignor.)
McKinstry, Arthur L., Southbridge, Mass. Drawing instrument. No. 1,010,292; Nov. 28; Sp. p. 5800; Gaz. vol. 172; p. 1034.
McKinzie, James F., La Salle, Ill. Trolley-head. No. 989,626; Apr. 18; Sp. p. 2866; Gaz. vol. 165; p. 506.
McKissick, Edwin M., Columbus, Miss. Cotton chopper and cultivator. No. 989,991; Apr. 18; Sp. p. 3653; Gaz. vol. 165; p. 633.
McKissick, William L., Carlisle, Iowa. Starting mechanism for hydrocarbon-engines. No. 1,007,885; Nov. 7; Sp. p. 541; Gaz. vol. 172; p. 82.
McKleroy, William H. (See Stucky, Stephen, assignor.)
McKlveen, Frank G., and L. W. Naylor, Denver, Colo. Automobile-starter. No. 982,382; Jan. 24; Sp. p. 4879; Gaz. vol. 162; p. 845.
McKlveen, Frank G., and L. W. Naylor, Denver, Colo. Engine-starter for automobiles. No. 985,689; Feb. 28; Sp. p. 5284; Gaz. vol. 163; p. 930.
McKnight, Alfred, Wilmington, Ohio. Compressed-air device. No. 984,512; Feb. 14; Sp. p. 2717; Gaz. vol. 163; p. 456.
McKnight, Samuel H., Brooklyn, N. Y. Testing-machine. No. 993,700; May 30; Sp. p. 6187; Gaz. vol. 166; p. 1119.
McKnight, Thomas R., assignor to Western Wheeled Scraper Company, Aurora, Ill. Grading-machine. No. 981,781; Jan. 17; Sp. p. 3569; Gaz. vol. 162; p. 606.
McKnight, Walter H., Fluvanna, Tex. Powder-duster. No. 990,762; Apr. 25; Sp. p. 5379; Gaz. vol. 165; p. 928.
McKnight, William W., New Kensington, Pa. Display-case for salesmen. No. 1,005,568; Oct. 10; Sp. p. 2204; Gaz. vol. 171; p. 381.
McLahlan, Oliver, *et al.* (See Pearson, Eliphalet L., assignor.)
McLain-Garwood Company, The. (See Keiser, Martin L., assignor.)

Alphabetical list of patentees—Continued.

McLain, James A., and H. A. Brooks; said Brooks assignor, by mesne assignments, to G. M. Harker, Los Angeles, Cal. Door-lock. No. 981,099; Jan. 10; Sp. p. 2107; Gaz. vol. 162; p. 348.
McLallen, Walter F. (See Roussey, Amos J., assignor.)
McLanahan, Austin. (See Potts, Louis M., assignor.)
McLane, Cyrus E., Lisbon, Ohio. Metallic tie and rail-fastener. No. 989,992; Apr. 18; Sp. p. 3655; Gaz. vol. 165; p. 633.
McLane Hemp Machine Company. (See McLane, Michael G., assignor.)
McLane, Michael G., San Francisco, Cal., assignor to McLane Hemp Machine Company, Zamboanga, Philippine Islands. Fiber-cleaning machine. No. 984,689; Feb. 21; Sp. p. 3124; Gaz. vol. 163; p. 553.
McLaren, Edward, Oakland, Cal. Tone-modifier. No. 983,509; Feb. 7; Sp. p. 541; Gaz. vol. 163; p. 86.
McLaren, James, Vancouver, British Columbia, Canada. Power-operated saw-set works. No. 997,403; July 11; Sp. p. 1680; Gaz. vol. 168; p. 305.
McLaren, John M., Sandringham, near Melbourne, Victoria, Australia, assignor of one-half to P. R. Chance, Tacoma, Wash. Golf-stick. No. 985,194; Feb. 28; Sp. p. 4186; Gaz. vol. 163; p. 762.
McLaren, Peter, Montreal, Quebec, Canada. Turn-table. No. 988,276; Mar. 28; Sp. p. 5344; Gaz. vol. 164; p. 946.
McLarty, James A., Toronto, Ontario, Canada. Treatment of sulfid ores. No. 987,156; Mar. 21; Sp. p. 2933; Gaz. vol. 164; p. 536.
McLaughlin, Andrew A., E. S. Mills, and H. B. Bannister, assignors to Muncie Wheel Company, Muncie, Ind. Spoke-mitering machine. No. 1,012,885; Dec. 26; Sp. p. 5544; Gaz. vol. 173; p. 978.
McLaughlin, Charles H., Philadelphia, Pa. Auxiliary connection for car-couplings. No. 1,003,771; Sept. 19; Sp. p. 3467; Gaz. vol. 170; p. 616.
McLaughlin, Daniel M., Louisville, Ky. Heating system. No. 1,010,293; Nov. 28; Sp. p. 5802; Gaz. vol. 172; p. 1034.
McLaughlin, Daniel P., Chicago, Ill. Flying-machine or airship. No. 991,794; May 9; Sp. p. 2054; Gaz. vol. 166; p. 370.
McLaughlin Development Company, The. (See McLaughlin, Wharton B., assignor.)
McLaughlin, Edison, Naperville, Ill. Milking device. No. 1,012,210; Dec. 19; Sp. p. 4090; Gaz. vol. 173; p. 702.
McLaughlin, Edward D. (See Knapp and McLaughlin.)
McLaughlin, Henry A., Jacksonville, Fla. Weldless pile-band. No. 993,538; May 30; Sp. p. 5812; Gaz. vol. 166; p. 1061.
McLaughlin, James, assignor of one-half to S. T. Jacobs, Riverdale, Ill. Brickmaking-machine. No. 995,622; June 20; Sp. p. 3344; Gaz. vol. 167; p. 589.
McLaughlin, James R., Canandaigua, N. Y. Meat-roaster. No. 991,162; May 2; Sp. p. 716; Gaz. vol. 166; p. 121.
McLaughlin, John A., San Rafael, assignor of one-half to W. L. Deysher, San Anselmo, Cal. Horseshoe-making machine. No. 1,010,934; Dec. 5; Sp. p. 1192; Gaz. vol. 173; p. 187.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 980,547; Jan. 3; Sp. p. 809; Gaz. vol. 162; p. 130.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 986,583; Mar. 14; Sp. p. 1756; Gaz. vol. 164; p. 311.
McLaughlin, John C., Jersey City, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No 994,327; June 6; Sp. p. 462; Gaz. vol. 167; p. 79.
McLaughlin, Joseph F., and W. Smith, Bloomfield, Ind. Packing-auger for bag-filling machines. No. 1,004,804; Oct. 3; Sp. p. 552; Gaz. vol. 171; p. 91.
McLaughlin, Joseph H., Millers Falls, Mass. Tool-chuck. No. 992,572; May 16; Sp. p. 3747; Gaz. vol. 166; p. 670.
McLaughlin, M. P. (See Ewart, John, assignor.)
McLaughlin, Milton P., Wakefield, Mass. Lock-nut. No. 985,826; Mar. 7; Sp. p. 121; Gaz. vol. 164; p. 23.
McLaughlin, R. F., *et al.* (See Poe, George, assignor.)
McLaughlin, Roy P., San Francisco, Cal. Winding-drum. No. 996,356; June 27; Sp. p. 4977; Gaz. vol. 167; p. 876.
McLaughlin, Susie, Philadelphia, Pa. Sleeve, waist, and cap ironer. No. 983,246; Jan. 31; Sp. p. 6712; Gaz. vol. 162; p. 1164.
McLaughlin, Wharton B., New York, N. Y., assignor to The McLaughlin Development Company. Destructive distillation. No. 1,012,684; Dec. 26; Sp. p. 5058; Gaz. vol. 173; p. 908.
McLaughlin, William K., *et al.* (See Wolke, George, assignor.)
McLaughlin, William P., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 998,710; July 25; Sp. p. 4594; Gaz. vol. 168; p. 837.
McLaurin, Sidney L., Brandon, Miss. Bung. No. 999,240; Aug. 1; Sp. p. 95; Gaz. vol. 169; p. 18.
McLaurin, Sidney L., Brandon, Miss. Voting-machine. No. 1,004,669; Oct. 3; Sp. p. 252; Gaz. vol. 171; p. 44.
McLean, Arthur, New York, N. Y. Aerial turbine-ship. No. 1,009,915; Nov. 28; Sp. p. 5021; Gaz. vol. 172; p. 906.
McLean, John C., Cleveland, Ohio. Wrench. No. 986,192; Mar. 7; Sp. p. 908; Gaz. vol. 164; p. 147.
McLean, Thomas R., Todd county, S. D. Hide-stretcher. No. 1,006,578; Oct. 24; Sp. p. 4474; Gaz. vol. 171; p. 799.
McLenahan, T. Morrow, *et al.* (See Niele, Valentine J., assignor.)
McLeod, Alexander T. (See McLeod, Angus and A. T.)
McLeod, Angus and A. T., Bloomington, Ill. Grain-weighing scale. No. 994,265; June 6; Sp. p. 335; Gaz. vol. 167; p. 58.
McLeod, John, assignor to B. Stewart, Carberry, Manitoba, Canada. Shocking-machine. No. 995,885; June 20; Sp. p. 3919; Gaz. vol. 167; p. 681.
McLeod, Malcolm J., *et al.* (See Baker, Ernest M., assignor.)
McLeod, Robert B., Providence, R. I. Feeding device for liquids. No. 1,009,916; Nov. 28; Sp. p. 5023; Gaz. vol. 172; p. 907.
McLeod, William D., Neche, N. D. Burial-casket-box fastener. No. 1,010,509; Dec. 5; Sp. p. 253; Gaz. vol. 173; p. 40.
McLin, Charles E. (See Bachman and McLin.)
McLin, Charles E., and J. S. Bachman, Rome, Ga. Folder for sewing-machines. No. 1,001,546; Aug. 22; Sp. p. 4997; Gaz. vol. 169; p. 901.
McLoon, Patrick, Glencoe, assignor of one-half to P. J. Dauernheim, St. Louis, Mo. Limekiln. No. 1,001,207; Aug. 22; Sp. p. 4332; Gaz. vol. 169; p. 789.
McLoughlin Brothers. (See Rigney, William J., assignor.)
McLoughlin, Francis A., Peoria, Ill. Cellar-drain and backwater-trap. No. 997,928; July 11; Sp. p. 2848; Gaz. vol. 168; p. 486.
McMahon, Josiah C., Pittsburg, Pa., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Metal weather-strip. No. 991,526; May 9; Sp. p. 1492; Gaz. vol. 166; p. 279.
McMahon, Phillip C. (See Moore and McMahon.)
McManama, John W. (See McCarthy, James M., assignor.)
McManama, John W., Waltham, assignor of one-third to S. W. Simonds, Somerville, and one-third to F. A. Barbey, Cambridge, Mass. Railway-track curve. No. 1,006,579; Oct. 24; Sp. p. 4476; Gaz. vol. 171; p. 799.
McMannamy, William P., and J. P. Johnson, Kalispell, Mont. Rotary engine. No. 994,595; June 6; Sp. p. 1023; Gaz. vol. 167; p. 170.
McManus, Francis H., Boston, Mass. Electric flat-iron. No. 987,901; Mar. 28; Sp. p. 4551; Gaz. vol. 164; p. 820.
McManus, Thomas J., *et al.* (See Wolfe, John, assignor.)
McManus, Thomas J., *et al.* (See Wolfe, John C., assignor.)
McMartin, Malcolm J., Duluth, Minn. Making pipe. No. 999,390; Aug. 1; Sp. p. 395; Gaz. vol. 169; p. 70.
McMeans, Orange E. (See Crary and McMeans.)
McMeans, Warren B., Cromwell, Ind. Heating apparatus for brooders. No. 982,155; Jan. 17; Sp. p. 4390; Gaz. vol. 162; p. 735.
McMeen & Miller. (See Deakin, Gerald, assignor.)
McMeen & Miller. (See Hulfish, David S., assignor.)
McMeen & Miller. (See Kruckow, Carl A., assignor.)
McMenamin, Peter P., Jersey City, N. J. Umbrella-stand. No. 984,955; Feb. 21; Sp. p. 3656; Gaz. vol. 163; p. 644.
McMenamin, Peter P., Jersey City, N. J. Armored paving. No. 992,573; May 16; Sp. p. 3749; Gaz. vol. 166; p. 671.
McMenamin, Peter P., Jersey City, N. J. Interlocking armored paving. No. 992,574; May 16; Sp. p. 3750; Gaz. vol. 166; p. 671.
McMillan, Daniel. (See Ogden, Floyd H., assignor.)
McMillan, George N., and M. L. Donaway, Bellingham, Wash. Device to keep frost from windows. No. 1,009,849; Nov. 28; Sp. p. 4899; Gaz. vol. 172; p. 885.
McMillan, Hugh C., Savanna, Ill. Horse-collar. No. 1,012,685; Dec. 26; Sp. p. 5059; Gaz. vol. 173; p. 908.
McMillan, Hugh C., Savanna, Ill. Combined horse-collar and hames. No. 1,012,686; Dec. 26; Sp. p. 5060; Gaz. vol. 173; p. 908.
McMillan, Hugh P., assignor to Wm. A. Tottle & Co., Baltimore, Md. Brush. No. 1,009,082; Nov. 21; Sp. p. 3249; Gaz. vol. 172; p. 574.
McMillan, John L., Syracuse, N. Y. Loose-leaf binder. No. 986,735; Mar. 14; Sp. p. 2072; Gaz. vol. 164; p. 363.
McMillan, Orville G., Brookings, S. D. Rotary engine. No. 996,272; June 27; Sp. p. 4780; Gaz. vol. 167; p. 848.
McMillen, Christie. (See Childs and McMillen.)
McMillen, Christie, Perry, Iowa. Calk-former. No. 1,006,580; Oct. 24; Sp. p. 4478; Gaz. vol. 171; p. 799.
McMillen, George L., Smartville, Cal. Wire-stretcher. No. 1,001,547; Aug. 22; Sp. p. 4998; Gaz. vol. 169; p. 902.
McMillin, Dode D., Quenemo, Kans. Cultivator attachment. No. 991,341; May 2; Sp. p. 1103; Gaz. vol. 166; p. 184.
McMillin, Howard S., St. Paul, Minn. Knockdown cottage. No. 998,915; July 25; Sp. p. 5072; Gaz. vol. 168; p. 910.

Alphabetical list of patentees—Continued.

McMillin, Howard S., assignor to Metal Screen & Cottage Co., St. Paul, Minn. Portable cottage. No. 1,008,483; Nov. 14; Sp. p. 1947; Gaz. vol. 172; p. 333.
McMinn, Thomas L. (See Huckaby and McMinn.)
McMullen, Charles P., New York, N. Y. Piston-rod packing. No. 1,006,114; Oct. 17; Sp. p. 3378; Gaz. vol. 171; p. 602.
McMullen, Frederic G., assignor, by mesne assignments, to H. N. Fisher, Waltham, Mass. Driving mechanism for cream-separators. No. 1,006,768; Oct. 24; Sp. p. 4861; Gaz. vol. 171; p. 863.
McMullen, Robert V., Coalinga, Cal. Wrench. No. 1,007,302; Oct. 31; Sp. p. 6050; Gaz. vol. 171; p. 1104.
McMullin, Matthew K., assignor to Window Glass Machine Company, Pittsburg, Pa. Method of and apparatus for splitting glass cylinders. No. 998,254; July 18; Sp. p. 3587; Gaz. vol. 168; p. 644.
McMurdie, Hamilton. (See Ponninghaus, Wilhelm B. D., assignor.)
McMurray, John H., Schenectady, assignor of one-half to J. T. Gorman, Cohoes, N. Y. Instrument for drawing circles. No. 1,005,992; Oct. 17; Sp. p. 3120; Gaz. vol. 171; p. 561.
McMurry, John W., Elkader, Kans. Cross-line buckle. No. 988,801; Apr. 4; Sp. p. 1096; Gaz. vol. 165; p. 175.
McMyler, Charles J., assignor to The McMyler Manufacturing Company, Cleveland, Ohio. Clam-shell bucket. No. 1,007,129; Oct. 31; Sp. p. 5686; Gaz. vol. 171; p. 1042.
McMyler Interstate Company, The. (See McMyler, John, assignor.)
McMyler, John. (See Traves, Webster F., assignor.)
McMyler, John, assignor to The McMyler Manufacturing Company, Cleveland, Ohio. Clam-shell bucket. No. 1,007,130; Oct. 31; Sp. p. 5687; Gaz. vol. 171; p. 1043.
McMyler, John, Cleveland, assignor to The McMyler Interstate Company, Bedford, Ohio. Car-dumper. No. 1,009,331; Nov. 21; Sp. p. 3810; Gaz. vol. 172; p. 664.
McMyler Manufacturing Company, The. (See McMyler, Charles J., assignor.)
McMyler Manufacturing Company, The. (See McMyler, John, assignor.)
McNab, Alexander, New London, assignor, by mesne assignments, to The McNab Company, Bridgeport, Conn. Registering and indicating apparatus. No. 1,010,662; Dec. 5; Sp. p. 575; Gaz. vol. 173; p. 92.
McNab Company, The. (See McNab, Alexander, assignor.)
McNair, James. (See Maddocks, Edward, assignor.)
McNair, Lesley J., U. S. Army. Projectile. No. 998,711; July 25; Sp. p. 4595; Gaz. vol. 168; p. 837.
McNair, Lesley J., U. S. Army. Projectile. No. 998,712; July 25; Sp. p. 4597; Gaz. vol. 168; p. 837.
McNair, Lesley J., U. S. Army. Projectile. No. 1,007,223; Oct. 31; Sp. p. 5896; Gaz. vol. 171; p. 1076.
McNally, John J., assignor to McNally Pneumatic Gin Corporation, Norfolk, Va. Cotton-gin. No. 1,002,598; Sept. 5; Sp. p. 935; Gaz. vol. 170; p. 139.
McNally, Philip T., Mandan, N. D. Electric switch. No. 981,452; Jan. 10; Sp. p. 2922; Gaz. vol. 162; p. 472.
McNally Pneumatic Gin Corporation. (See McNally, John J., assignor.)
McNamara, James, Montreal, Quebec, Canada, assignor to Mergenthaler Linotype Company. Machine for producing printing-slugs. No. 1,008,175; Nov. 7; Sp. p. 1117; Gaz. vol. 172; p. 184.
McNamara, Robert E., Walla Walla, Wash. Cultivator. No. 986,481; Mar. 14; Sp. p. 1544; Gaz. vol. 164; p. 276.
McNamee, Christopher, New York, N. Y. Air-supply armor. No. 1,009,083; Nov. 21; Sp. p. 3250; Gaz. vol. 172; p. 575.
McNamee, John. (See Chenoweth, Alexander C., assignor.)
McNamee, Luke, U. S. Navy. Shock-absorber for search-lights. No. 1,000,834; Aug. 15; Sp. p. 3486; Gaz. vol. 169; p. 627.
McNary, John H. (See Schwaderer, Adolph, assignor.)
McNaught, Jacob C., Kingfisher, Okla. Automatic truck-lock. No. 985,363; Feb. 28; Sp. p. 4558; Gaz. vol. 163; p. 818.
McNaught, William, Rochdale, England. Drying-machine. No. 983,076; Jan. 31; Sp. p. 6374; Gaz. vol. 162; p. 1108.
McNaughton, Alvah J. (See Swazey, George A., assignor.)
McNaughton, Andrew, assignor of one-third to T. G. Ward and one-third to C. P. Colver, Williamsport, Pa. Chock. No. 999,828; Aug. 8; Sp. p. 1250; Gaz. vol. 169; p. 245.
McNaughton, Homer L., *et al.* (See Carver, Edwin, assignor.)
McNaughton, Robert, Warragul, Victoria, Australia. Combined cap and oil-cup. No. 991,163; May 2; Sp. p. 717; Gaz. vol. 166; p. 121.
McNaull, William D., Toledo, Ohio. Tire for vehicle-wheels. No. 1,004,582; Oct. 3; Sp. p. 68; Gaz. vol. 171; p. 13.
McNeal, Charles A., Newark, Ohio. Illuminated sign. No. 981,209; Jan. 10; Sp. p. 2346; Gaz. vol. 162; p. 387.
McNeal, John W., Chicago, Ill. Smoke-consuming furnace. No. 983,510; Feb. 7; Sp. p. 542; Gaz. vol. 163; p. 87.
McNeal, Luther C., Rochester, N. Y. Diaphragm-pump. No. 985,917; Mar. 7; Sp. p. 340; Gaz. vol. 164; p. 55.
McNeal, Luther C., assignor of one-half to A. S. Hamilton, Rochester, N. Y. Diaphragm-pump. No. 1,007,719; Nov. 7; Sp. p. 147; Gaz. vol. 172; p. 24.
McNeely, John E. (See Ransome and McNeely.)
McNeil, Chester, assignor to Union Special Sewing Machine Company, Chicago, Ill. Presser-bar-clamping device for sewing-machines. No. 984,690; Feb. 21; Sp. p. 3126; Gaz. vol. 163; p. 554.
McNeil, Daniel W., assignor to John Douglas Company, Cincinnati, Ohio. Hot and cold water cock. No. 990,894; May 2; Sp. p. 142; Gaz. vol. 166; p. 26.
McNeil, Edward, East St. Louis, Ill. Automatic switch-thrower. No. 985,614; Feb. 28; Sp. p. 5122; Gaz. vol. 163; p. 905.
McNeill, Howard R., and J. Clement, Buffalo, N. Y.; said Clement assignor to said McNeill. Stave-jointing machine. No. 984,229; Feb. 14; Sp. p. 2131; Gaz. vol. 163; p. 361.
McNeill, Thomas W., and I. J. Babcock, Chicago, Ill. Smoke-indicator. No. 1,012,403; Dec 19; Sp. p. 4477; Gaz. vol. 173; p. 767.
McNeillie, William E., Jr., New Rochelle, N. Y. Hull construction. No. 984,285; Feb. 14; Sp. p. 2256; Gaz. vol. 163; p. 381.
McNew, William F. (See Heedwell and McNew.)
McNichols, Ellsworth S. (See Daniels and McNichols.)
McNinch, Frank B., Philadelphia, Pa. Suction air-chamber. No. 986,736; Mar. 14; Sp. p. 2076; Gaz. vol. 164; p. 363.
McNitt, Robert J., Niagara Falls, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Reducing metals. No. 993,391; May 30; Sp. p. 5489; Gaz. vol. 166; p. 1011.
McNitt, Robert J., Niagara Falls, assignor to Roessler and Hasslacher Chemical Company, New York, N. Y. Distillation. No. 994,022; May 30; Sp. p. 6834; Gaz. vol. 166; p. 1226.
McNitt, Robert J., Niagara Falls, assignor to Roessler & Hasslacher Chemical Company, New York, N. Y. Electrolytic process. No. 995,476; June 20; Sp. p. 3011; Gaz. vol. 167; p. 536.
McNorton, John T., and J. S. Stanley, McKinney, Tex. Machine for washing clothes, renovating feathers, canning, &c. No. 982,385; Jan. 24; Sp. p. 4885; Gaz. vol. 162; p. 846.
McNulty, Richard J. (See Dodd and McNulty.)
McNutt, William H., New York, N. Y. Safety-bung. No. 999,829; Aug. 8; Sp. p. 1251; Gaz. vol. 169; p. 245.
McOsker, Daniel J., Providence, R. I. Motor-vehicle. No. 1,000,743; Aug. 15; Sp. p. 3292; Gaz. vol. 169; p. 595.
McPartland, Arthur V., Newark, N. J. Selective switch mechanism. No. 1,006,392; Oct. 17; Sp. p. 4023; Gaz. vol. 171; p. 701.
McPeak, Ned H., Cornerstone, Ark. Can-opener. No. 1,001,060; Aug. 22; Sp. p. 4027; Gaz. vol. 169; p. 741.
McPeek, Theophilus W., Derby, Ind. Automatic wagon-brake. No. 994,647; June 6; Sp. p. 1151; Gaz. vol. 167; p. 188.
McPheeters, Earl R., administrator. (See Kimball, John A.)
McPherson, Herbert R., *et al.* (See Ivor Barry, assignor.)
McPherson, John D. (See Strong and McPherson.)
McPherson, Joseph R., and F. Smith, assignors to McPherson Pasteurizer Company, Council Bluffs, Iowa. Pasteurizer and cooler. No. 983,561; Feb. 7; Sp. p. 675; Gaz. vol. 163; p. 104.
McPherson Pasteurizer Company. (See McPherson and Smith, assignors.)
McPike, Henry G., Jr., and H. B. Harlow, assignors to J. H. McPike, Alton, Ill. Paper-slotting machine. No. 1,002,296; Sept. 5; Sp. p. 253; Gaz. vol. 170; p. 34.
McPike, John H. (See McPike and Harlow, assignors.)
McQueen, Daniel P. (See Hatlee, David H., assignor.)
McQueen, Finlay R., Minneapolis, Minn. Back-stop for elevator-heads. No. 984,586; Feb. 21; Sp. p. 2900; Gaz. vol. 163; p. 516.
McQueeney, Cornelius S., Akron, Ohio. Blower for pneumatic signals. No. 1,012,886; Dec. 26; Sp. p. 5546; Gaz. vol. 173; p. 978.
McQuitty, Noah E. (See Elliott and McQuitty.)
McQuown, Thomas H., Biggsville, Ill., assignor, by mesne assignments, to A. A. Kent, Philadelphia, Pa. Electric-circuit closer and breaker. No. 1,011,070; Dec. 5; Sp. p. 1459; Gaz. vol. 173; p. 232.
McRae, Arthur A., Attleboro, Mass. Watch-fob. No. 981,782; Jan. 17; Sp. p. 3573; Gaz. vol. 162; p. 606.
McReynolds, J. E. (See McDonald, William R., assignor.)
McRonald, Adelbert H., Portland, Me. Window or the like. No. 993,861; May 30; Sp. p. 6512; Gaz. vol. 166; p. 1173.
McShane, Owen, Buffalo, N. Y. Clothes-pin. No. 985,615; Feb. 28; Sp. p. 5123; Gaz. vol. 163; p. 906.
McStay, James, and E. F. Stevens, Cygnet, Ohio. Clutch-pulley. No. 989,274; Apr. 11; Sp. p. 2076; Gaz. vol. 165; p. 354.
McSweeney, Anthony M., Salt Lake City, Utah. Skirmish-machine. No. 1,002,169; Aug. 29; Sp. p. 6312; Gaz. vol. 169; p. 1141.
McTammany, F. A. (See McTammany, John, assignor.)

Alphabetical list of patentees—Continued.

McTammany, John, Woonsocket, R. I., assignor to F. A. McTammany, New York, N. Y. Mechanical musical instrument. No. 1,010,780; Dec. 5; Sp. p. 854; Gaz. vol. 173; p. 134.
McTan Chemical Company. (See McKinnon, Charles A., assignor.)
McWane, Henry E. (See Dudley, Mathew H., assignor.)
McWane, James R., Birmingham, Ala. Shake-out box. No. 992,575; May 16; Sp. p. 3751; Gaz. vol. 166; p. 671.
McWhirter, William H., Pontotoc, Miss. Clevis. No. 999,830; Aug. 8; Sp. p. 1254; Gaz. vol. 169; p. 245.
McWhorter, Robert, *et al.* (See Chapman, Frank M., assignor.)
McWithey, Harold E., *et al.* (See Spencer, Oscar A., assignor.)
McWold, Victor A., Minneapolis, Minn. Sawing-guide. No. 997,463; July 11; Sp. p. 1789; Gaz. vol. 168; p. 324.
Meacham, Aldah R., assignor of one-half to C. G. Frost, Oklahoma, Okla. Spark-plug. No. 1,009,084; Nov. 21; Sp. p. 3253; Gaz. vol. 172; p. 575.
Meacham, Justin S., Boyne, Mich. Spring-heel for shoes. No. 980,657; Jan. 3; Sp. p. 1055; Gaz. vol. 162; p. 167.
Meacham, Walter, Conde, S. D. Guide for traction-engines. No. 984,437; Feb. 14; Sp. p. 2545; Gaz. vol. 163; p. 431.
Mead, Charles H. (See Fowler and Mead.)
Mead, Cyrus E., Dayton, Ohio. Rotary valve. No. 1,007,040; Oct. 24; Sp. p. 5458; Gaz. vol. 171; p. 956.
Mead, Edward C., Elkhart, Ind. Attachment for ladders. No. 995,273; June 13; Sp. p. 2539; Gaz. vol. 167; p. 439.
Mead, Frances R., Greenwich, Conn. Blanket-protector. No. 1,009,332; Nov. 21; Sp. p. 3814; Gaz. vol. 172; p. 664.
Mead, Frank E., Utica, Pa. Match-safe. No. 988,887; Apr. 4; Sp. p. 1257; Gaz. vol. 165; p. 201.
Mead, George A., Mansfield, Ohio. Suspension device for trolley-wires and the like. No. 1,007,370; Oct. 31; Sp. p. 6193; Gaz. vol. 171; p. 1129.
Mead, Glenn W. (See East, Alva L., assignor.)
Mead, Harry, Coalinga, Cal. Cutter for well-casings. No. 1,001,548; Aug. 22; Sp. p. 4999; Gaz. vol. 169; p. 902.
Mead, Harry, assignor of one-half to B. A. Stewart, Coalinga, Cal. Pump-plunger. No. 992,576; May 16; Sp. p. 3754; Gaz. vol. 166; p. 672.
Mead, Howard G., St. Louis, Mo., assignor to W. P. Healey, Chicago, Ill. Box-blank machine. No. 1,009,917; Nov. 28; Sp. p. 5025; Gaz. vol. 172; p. 907.
Mead, John W., assignor of one-half to A. H. Deremo, Buffalo, one-sixth to G. Welch, Niagara Falls, one-sixth to D. A. Carmichael and one-sixth to E. Beeman, Buffalo, N. Y. Electric hand-lamp. No. 983,742; Feb. 7; Sp. p. 1033; Gaz. vol. 163; p. 165.
Mead-Morrison Manufacturing Company. (See Hammond and Donahue, assignors.)
Mead, Philip J., Morenci, Mich. Brickmaking-machine. No. 986,584; Mar. 14; Sp. p. 1757; Gaz. vol. 164; p. 311.
Mead, Theodore, Jr., East Orange, assignor of one-half to G. T. Jancovius, Newark, N. J. Nap-plucking machine. No. 1,000,616; Aug. 15; Sp. p. 3037; Gaz. vol. 169; p. 552.
Meade, David P., White Post, Va. Coin-controlled telephone apparatus. No. 985,616; Feb. 28; Sp. p. 5124; Gaz. vol. 163; p. 906.
Meade, James, Stoughton, Mass. Machine for coating fabrics and the like. No. 980,315; Jan. 3; Sp. p. 258; Gaz. vol. 162; p. 48.
Meade, Norman G., Wilkinsburg, assignor of one-half to J. B. Comstock, Edgewood Park, Pa. Automatic player for musical instruments. No. 1,006,669; Oct. 24; Sp. p. 4654; Gaz. vol. 171; p. 829.
Meadows, Albert, Detroit, Mich. Electric-circuit controller. No. 1,010,663; Dec. 5; Sp. p. 577; Gaz. vol. 173; p. 92.
Meadows, Loyd N., Wichita, Kans. Saw-set. No. 985,270; Feb. 28; Sp. p. 4371; Gaz. vol. 163; p. 788.
Meadows, Loyd N., Wichita, Kans. Perforator. No. 989,627; Apr. 18; Sp. p. 2868; Gaz. vol. 165; p. 507.
Meadows, Perry L., assignor of one-half to W. H. Carnagey, Fairfield, Iowa. Grain-scoop. No. 992,972; May 23; Sp. p. 4606; Gaz. vol. 166; p. 840.
Meads, Albert H. (See Ross, Oscar A., assignor.)
Meagher, George L., *et al.* (See Maccarthy, Frank J., assignor.)
Meahl, Philip J., Chicago, Ill. Machine for making perforated music. No. 980,316; Jan. 3; Sp. p. 261; Gaz. vol. 162; p. 49.
Meahl, Philip J., Bayonne, N. J. Machine for making perforated music-sheets. No. 984,834; Feb. 21; Sp. p. 3430; Gaz. vol. 163; p. 605.
Meahl, Philip J., Bayonne, N. J. Machine for marking perforated music-rolls. No. 998,025; July 18; Sp. p. 3086; Gaz. vol. 168; p. 562.
Meahl, Philip J., Bayonne, N. J. Machine for making perforated music-sheets. No. 999,328; Aug. 1; Sp. p. 258; Gaz. vol. 169; p. 47.
Meaker Company, The. (See Miller, Constantine G., assignor.)
Meaker, John W., Detroit, Mich. Explosive-engine. No. 1,002,423; Sept. 5; Sp. p. 559; Gaz. vol. 170; p. 79.
Mealing, Ernest A., Southville, Bristol, England, assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,012,211; Dec. 19; Sp. p. 4092; Gaz. vol. 173; p. 702.
Mealy, Charles A., and R. L. Parcell, Baltimore, Md. Producing articles of jewelry. No. 999,391; Aug. 1; Sp. p. 397; Gaz. vol. 169; p. 70.
Means, Annie A., Yatesville, Ga. Fly-trap. No. 995,886; June 20; Sp. p. 3930; Gaz. vol. 167; p. 681.
Means, Frederick L. S., Boston, Mass. Protective caster. No. 1,012,404; Dec. 19; Sp. p. 4480; Gaz. vol. 173; p. 767.
Means, James, Boston, Mass. Aerial navigation. No. 984,147; Feb. 14; Sp. p. 1929; Gaz. vol. 163; p. 332.
Means, James, Boston, Mass. Aerial navigation. No. 989,022; Apr. 11; Sp. p. 1537; Gaz. vol. 165; p. 269.
Means, James, Boston, Mass. Aeronautical clinometer. No. 996,106; June 27; Sp. p. 4373; Gaz. vol. 167; p. 792.
Means, John F., Oil City, Pa. Electric brake for graphophones. No. 981,935; Jan. 17; Sp. p. 3959; Gaz. vol. 162; p. 661.
Means, John F., Oil City, Pa. Electric brake for graphophones. No. 1,004,059; Sept. 26; Sp. p. 4130; Gaz. vol. 170; p. 742.
Mears, Charles W., Cleveland, Ohio. Mechanism for treating paper. No. 1,004,181; Sept. 26; Sp. p. 4438; Gaz. vol. 170; p. 785.
Mears, William H., assignor of one-half to S. H. Martin, Seattle, Wash. Steam-boiler. No. 1,008,554; Nov. 14; Sp. p. 2092; Gaz. vol. 172; p. 358.
Meas, Theodore G., Lansing, Mich. Draft-regulator. No. 980,317; Jan. 3; Sp. p. 268; Gaz. vol. 162; p. 49.
Mebane, Alexander R., Hickory Flat, Miss. Horse-detacher. No. 1,002,170; Aug. 29; Sp. p. 6315; Gaz. vol. 169; p. 1141.
Mecham, James G., assignor to Hydrostatic Motor Co., Oakland, Cal. Hydrostatic motor. No. 999,579; Aug. 1; Sp. p. 763; Gaz. vol. 169; p. 132.
Mechanical Construction Company, The. (See Hanna, William T., assignor.)
Mechanical Specialty Manufacturing Company. (See Stem and Boyd, assignors.)
Medalie, Benjamin, assignor to American Shoe Machinery and Tool Company, St. Louis, Mo. Leather-skiving machine. No. 1,010,065; Nov. 28; Sp. p. 5343; Gaz. vol. 172; p. 958.
Medford, Waldo O., Spokane, Wash. Train-controlling system. No. 993,266; May 23; Sp. p. 5216; Gaz. vol. 166; p. 936.
Medina Foundry Company. (See Slack, Bernard E., assignor.)
Medvecky, Julius F., and J. B. Kauser, assignors to The Modern Advertising Company, San Francisco, Cal. Live-motion advertising device. No. 982,685; Jan. 24; Sp. p. 5494; Gaz. vol. 162; p. 947.
Medveczky, Sigismund, Budapest, Austria-Hungary. Manufacturing material for casting and painting. No. 1,012,887; Dec. 26; Sp. p. 5548; Gaz. vol. 173; p. 979.
Medveczky, Sigmund von, Árad, Austria-Hungary. Slab or block composed of cement and wire-netting. No. 980,982; Jan. 10; Sp. p. 1842; Gaz. vol. 162; p. 307.
Meehan, David C., Columbus, Ohio. Wooden core. No. 1,006,581; Oct. 24; Sp. p. 4483; Gaz. vol. 171; p. 800.
Meehan, John J., Denver, Colo. Toy badge. No. 1,005,993; Oct. 17; Sp. p. 3126; Gaz. vol. 171; p. 561.
Meehan, John J., assignor to The National Sales Company, Denver, Colo. Razor-stropper. No. 996,107; June 27; Sp. p. 4374; Gaz. vol. 167; p. 792.
Meek, Ada, Burleson, Tex. Insect-collecting machine. No. 986,193; Mar. 7; Sp. p. 910; Gaz. vol. 164; p. 147.
Meek, Mark D., Eau Claire, Wis. Stumping-machine. No. 1,001,292; Aug. 22; Sp. p. 4494; Gaz. vol. 169; p. 816.
Meek, Mark D., Eau Claire, Wis. Clutch. No. 1,010,935; Dec. 5; Sp. p. 1193; Gaz. vol. 173; p. 187.
Meeker, Clifford D., East Orange, N. J., assignor to Gerard Ozone Process Company, New York, N. Y. Apparatus for producing ozone. No. 987,902; Mar. 28; Sp. p. 4554; Gaz. vol. 164; p. 821.
Meeker, Clifford D., East Orange, N. J., and C. F. Wallace, assignors to Gerard Ozone Process Company, New York, N. Y. Water-sterilizing apparatus. No. 986,194; Mar. 7; Sp. p. 911; Gaz. vol. 164; p. 147.
Meeks, Ulysses S., assignor of one-half to D. O. Kingsley, South Bend, Ind. Refrigerator. No. 984,835; Feb. 21; Sp. p. 3431; Gaz. vol. 163; p. 605.
Meeks, William J., assignor of one-half to J. Bauer, Loyal, Wis. Pool-table pocket. No. 1,005,266; Oct. 10; Sp. p. 1512; Gaz. vol. 171; p. 274.
Meem, James C., Brooklyn, N. Y. Contractible piling. No. 991,001; May 2; Sp. p. 367; Gaz. vol. 166; p. 63.
Megginson, Caleb W., Danville, Va., assignor to Draper Company, Hopedale, Mass. Thread-cutting temple for looms. No. 1,011,220; Dec. 12; Sp. p. 1847; Gaz. vol. 173; p. 320.
Mehl, Alfred, Nuremberg, Germany. Intermittent-grip device. No. 999,175; July 25; Sp. p. 5603; Gaz. vol. 168; p. 997.

Mehl, Walter B., Waltham, Mass., assignor, by mesne assignments, to The Keystone Watch Case Company, Philadelphia, Pa. Pallet-end-stone cap for watch-movements. No. 981,667; Jan. 17; Sp. p. 3333; Gaz. vol. 162; p. 566.
Mehlberger, Louis, Sparta, Mich. Fertilizer-distributer. No. 1,011,071; Dec. 5; Sp. p. 1462; Gaz. vol. 173; p. 232.
Mehlem, Emma, Chicago, Ill. Guided glass-cutter. No. 997,310; July 11; Sp. p. 1510; Gaz. vol. 168; p. 274.
Mehlhorn, Albert. (See Mehlhorn, Henry, E., and A.)
Mehlhorn, Edward. (See Mehlhorn, Henry, E., and A.)
Mehlhorn, Henry, E., and A., Halfway, Oreg. Sign-exhibitor. No. 1,009,543; Nov. 21; Sp. p. 4284; Gaz. vol. 172; p. 737.
Mehring, George, Chicago, Ill. Vacuum-controlled system for radiators. No. 999,329; Aug. 1; Sp. p. 260; Gaz. vol. 169; p. 48.
Meich, Thomas W. (See Richardson and Meich.)
Meier, Adolphus G. (See Kessler, John J., assignor.)
Meier, Adolphus G., St. Louis, Mo. Dental filling material. No. 1,008,845; Nov. 14; Sp. p. 2730; Gaz. vol. 172; p. 459.
Meier, Albert J., Glendale, Mo. Combined lead corroding-pot and buckle. No. 982,285; Jan. 24; Sp. p. 4687; Gaz. vol. 162; p. 810.
Meier, Albert J., Glendale, Mo. Means for preventing accidents. No. 984,587; Feb. 21; Sp. p. 2902; Gaz. vol. 163; p. 516.
Meier, Albert J., Glendale, Mo. Confection. No. 996,024; June 20; Sp. p. 4190; Gaz. vol. 167; p. 728.
Meier, Albert J., Glendale, Mo. Tile. No. 996,040; June 20; Sp. p. 4227; Gaz. vol. 167; p. 734.
Meier, Albert J., Glendale, Mo. White-lead stack. No. 996,041; June 20; Sp. p. 4229; Gaz. vol. 167; p. 735.
Meier, Albert J., Glendale, Mo., assignor, by mesne assignments, to Unit Construction Company. System of constructing buildings. No. 992,739; May 16; Sp. p. 4075; Gaz. vol. 166; p. 728.
Meier, Albert J., Glendale, Mo., assignor to Unit Construction Company, Wilmington, Del. Concrete construction. No. 1,008,606; Nov. 14; Sp. p. 2219; Gaz. vol. 172; p. 378.
Meier, Albert J., Glendale, assignor to The Temco Manufacturing Company, St. Louis, Mo. Street-car-transfer printing and delivering apparatus. No. 994,685; June 6; Sp. p. 1235; Gaz. vol. 167; p. 201.
Meier, Earnest, La Crosse, Wis. Wind-shield. No. 1,002,071; Aug. 29; Sp. p. 6136; Gaz. vol. 169; p. 1109.
Meier, Henry W. (See Burger, William A., assignor.)
Meier, Henry W. (See Burger and Meier.)
Meier, William, New York, N. Y. Lock. No. 981,453; Jan. 10; Sp. p. 2924; Gaz. vol. 162; p. 473.
Meier, William, Blackhawk county, Iowa. Rotary fan. No. 983,389; Feb. 7; Sp. p. 286; Gaz. vol. 163; p. 48.
Meier, William, and C. G. Rumford, Jr., Elizabeth, N. J. Level. No. 988,888; Apr. 4; Sp. p. 1258; Gaz. vol. 165; p. 201.
Meierant, August F., La Grange, Mo. Fodder-press. No. 1,005,994; Oct. 17; Sp. p. 3128; Gaz. vol. 171; p. 562.
Meigs, John F., and R. P. Stout, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Time-fuse for projectiles. No. 993,091; May 23; Sp. p. 4851; Gaz. vol. 166; p. 881.
Meigs, John F., and H. G. Jakobsson, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Support for gun-sights. No. 1,000,744; Aug. 15; Sp. p. 3295; Gaz. vol. 169; p. 596.
Meigs, John F., and H. G. Jakobsson, assignors to Bethlehem Steel Company, South Bethlehem, Pa. Gun mount and shield. No. 1,007,224; Oct. 31; Sp. p. 5900; Gaz. vol. 171; p. 1077.
Meigs, John F., South Bethlehem, F. G. Hughes and R. P. Stout, Bethlehem, Pa. Firing mechanism for guns. No. 1,007,720; Nov. 7; Sp. p. 149; Gaz. vol. 172; p. 24.
Meindl, Joseph, Oregon City, Oreg. Snow-melting machine. No. 980,983; Jan. 10; Sp. p. 1843; Gaz. vol. 162; p. 307.
Meiners, John R., New York, N. Y. Nut-lock. No. 996,725; July 4; Sp. p. 253; Gaz. vol. 168; p. 44.
Meirowsky, Max, Cologne-Ehrenfeld, Germany. Apparatus for insulating. No. 989,791; Apr. 18; Sp. p. 3226; Gaz. vol. 165; p. 564.
Meirowsky, Max, Cologne-Lindenthal, Germany. Apparatus for preparing mica sheets. No. 1,003,368; Sept. 12; Sp. p. 2582; Gaz. vol. 170; p. 444.
Meirowsky, Max, Cologne-Ehrenfeld, Germany. Electric condenser. No. 1,010,936; Dec. 5; Sp. p. 1195; Gaz. vol. 173; p. 187.
Meisel, Charles A. (See Meisel, Francis and C. A.)
Meisel, Francis and C. A., Boston, Mass. Numbering-head. No. 989,860; Apr. 18; Sp. p. 3364; Gaz. vol. 165; p. 587.
Meisenburg, Kurt. (See Hofmann and Meisenburg.)
Meisselbach-Catucci Manufacturing Company. (See Catucci, Plyny, assignor.)
Meissner, Edward C., St. Louis, Mo., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic hammer. No. 1,007,476; Oct. 31; Sp. p. 6414; Gaz. vol. 171; p. 1165.
Meissner, Fritz, Ampere, East Orange, N. J. Shears and scissors. No. 985,048; Feb. 21; Sp. p. 3835; Gaz. vol. 163; p. 677.
Meissner, Max, Leipzig, Germany. Incandescent vapor-lamp. No. 1,005,651; Oct. 10; Sp. p. 2391; Gaz. vol. 171; p. 410.
Meissner, Otto W., Westmount, Quebec, Canada, assignor to Gravity Coal Bin Company, Chicago, Ill. Portable railway-track. No. 990,282; Apr. 25; Sp. p. 4273; Gaz. vol. 165; p. 762.
Meissner, Paul, West Hoboken, N. J. Flying-machine. No. 1,007,225; Oct. 31; Sp. p. 5901; Gaz. vol. 171; p. 1077.
Meissner, Wilhelm, Magdeburg, Germany. Ridge-drill. No. 994,707; June 6; Sp. p. 1286; Gaz. vol. 167; p. 210.
Meister, Otto, Zurich, Switzerland, assignor to Weidmann Silk Dyeing Company, Paterson, N. J. Preserving silk weighted with metal salts. No. 991,220; May 2; Sp. p. 838; Gaz. vol. 166; p. 142.
Meister, Otto, Zurich, Switzerland, assignor to Weidmann Silk Dyeing Company, Paterson, N. J. Preserving silk weighted with metal salts. No. 991,221; May 2; Sp. p. 839; Gaz. vol. 166; p. 143.
Meister, Richard, assignor to Phönix-Werk G. m. b. H., Meerane, Saxony, Germany. Apparatus for manufacturing fodder from brewery-waste. No. 991,870; May 9; Sp. p. 2221; Gaz. vol. 166; p. 397.
Meixel, Jesse L. (See Meixel, William H. and J. L.)
Meixel, William H. and J. L., York, Nebr. Reversible window. No. 987,903; Mar. 28; Sp. p. 4557; Gaz. vol. 164; p. 821.
Meixel, William H. and J. L., York, Nebr. Reversible window. No. 988,277; Mar. 28; Sp. p. 5345; Gaz. vol. 164; p. 946.
Meixell, William B., Sayre, assignor of one-third to J. B. Stalnaker and one-third to T. W. Jenkins, Williamsport, Pa. Removing ink or coloring-matter from paper. No. 989,023; Apr. 11; Sp. p. 1540; Gaz. vol. 165; p. 269.
Meixner, Theodore, Winchester, Wash. Pump. No. 987,313; Mar. 21; Sp. p. 3296; Gaz. vol. 164; p. 592.
Meklensek, Joseph, Del Mar, Cal. Pump. No. 988,125; Mar. 28; Sp. p. 5052; Gaz. vol. 164; p. 896.
Melander, August W., Northwestern, Cal. Wave-motor. No. 1,003,635; Sept. 19; Sp. p. 3161; Gaz. vol. 170; p. 569.
Melaun, Ernst, assignor of one-half to L. M. Rappaport, Indianapolis, Ind. Saw-clamp. No. 1,003,772; Sept. 19; Sp. p. 3469; Gaz. vol. 170; p. 617.
Melaun, Oscar, Berlin, Germany. Rail-joint. No. 1,002,726; Sept. 5; Sp. p. 1228; Gaz. vol. 170; p. 182.
Melbye, Oskar, Anacortes, Wash. Rowlock. No. 985,049; Feb. 21; Sp. p. 3837; Gaz. vol. 163; p. 677.
Meldon, William H. (See McKenzie, Angus, assignor.)
Meleg, Marton. (See Morâúszky, Mâtyâs, assignor.)
Melfi, Peppino, Syracuse, N. Y. Flute attachment. No. 1,013,037; Dec. 26; Sp. p. 5884; Gaz. vol. 173; p. 1029.
Melhart, George G., Whittier, Cal. Burner. No. 1,010,294; Nov. 28; Sp. p. 5804; Gaz. vol. 172; p. 1034.
Melichar, Franz, Brandeis-on-the-Elbe, Austria-Hungary. Regulating device for seeding-machines. No. 989,918; Apr. 18; Sp. p. 3488; Gaz. vol. 165; p. 607.
Melick, Clark O., Chicago, Ill. T-square and protractor. No. 1,010,664; Dec. 5; Sp. p. 579; Gaz. vol. 173; p. 93.
Mellen, Joseph G. and W. F., Bridgeport, Conn. Making aluminum and copper alloys. No. 982,218; Jan. 17; Sp. p. 4512; Gaz. vol. 162; p. 757.
Mellen, William F. (See Mellen, Joseph G. and W. F.)
Mellinger, Frank E., and H. H. Markley, Lumija, Mexico. Machine for converting latex into sheets of crude rubber. No. 1,008,607; Nov. 14; Sp. p. 2221; Gaz. vol. 172; p. 379.
Melloch, Vincent J., and R. D. Lewry, assignors of one-third to J. T. Spiker, Chicago, Ill. Non-refillable bottle. No. 1,011,472; Dec. 12; Sp. p. 2407; Gaz. vol. 173; p. 411.
Mellor, Harold P., *et al.* (See Johnstone, Lewis, assignor.)
Mellor, Ralph, Philadelphia, Pa. Feed-regulating device for evaporators. No. 991,342; May 2; Sp. p. 1104; Gaz. vol. 166; p. 185.
Mellor, Roy M. (See Pinard, Cassidy, and Mellor.)
Mellott, Milton H. (See Northrup and Mellott.)
Mells, Charles, New York, N. Y. Flying-rings and trapeze. No. 1,012,212; Dec. 19; Sp. p. 4095; Gaz. vol. 173; p. 703.
Mellum, Peter O., Charlson, N. D. Neck-yoke. No. 1,005,995; Oct. 17; Sp. p. 3129; Gaz. vol. 171; p. 562.
Meloney, George R., and A. F. Wood, Philadelphia, assignors to Dairymens Supply Company, Lansdowne, Pa. Milk-weighing machine. No. 1,006,968; Oct. 24; Sp. p. 5305; Gaz. vol. 171; p. 932.
Meloon, Jonathan C., Providence, R. I., assignor to General Fire Extinguisher Company, New York, N. Y. Safety device. No. 994,860; June 13; Sp. p. 1684; Gaz. vol. 167; p. 302.
Meloun, Josef F., and M. McCune, Cleveland, Ohio. Tobacco-pipe. No. 982,383; Jan. 24; Sp. p. 4882; Gaz. vol. 162; p. 845.
Melton, Ella, St. Louis, Mo. Range-cover. No. 1,000,185; Aug. 8; Sp. p. 2061; Gaz. vol. 169; p. 367.

Alphabetical list of patentees—Continued.

Melton, Lloyd L., assignor of one-half to A. C. Soule, Chicago, Ill. Carbureter. No. 1,012,687; Dec. 26; Sp. p. 5061; Gaz. vol. 173; p. 909.
Melville, James W., Chippewa Falls, Wis. Hay-fork. No. 993,267; May 23; Sp. p. 5219; Gaz. vol. 166; p. 936.
Melvin, Alonzo D., Washington, D. C. Device for stamping or marking meat. No. 996,025; June 20; Sp. p. 4191; Gaz. vol. 167; p. 729.
Melvin, Charles H., assignor to Deere & Company, Moline, Ill. Sulky-plow. No. 1,012,405; Dec. 19; Sp. p. 4481; Gaz. vol. 173; p. 768.
Melvin, Joe D., Sherman, Tex. Oil-can spout. No. 1,005,730; Oct. 10; Sp. p. 2540; Gaz. vol. 171; p. 437.
Melvin, Leighton, *et al.* (See Edgar, George B., Jr., assignor.)
Melvin, Mark G., assignor, by mesne assignments, to Sterling Sales Company, Scranton, Pa. Filter. No. 981,582; Jan. 10; Sp. p. 3165; Gaz. vol. 162; p. 516.
Melzer, Bruno, Hetschburg, near Weimar, Germany. Making solid colored bodies. No. 1,000,425; Aug. 15; Sp. p. 2589; Gaz. vol. 169; p. 482.
Menard, Joseph A., Los Angeles, Cal. Engine. No. 996,357; June 27; Sp. p. 4978; Gaz. vol. 167; p. 877.
Mendel & Company. (See Klein, Stanley, assignor.)
Mendel, Zachary, Cincinnati, Ohio. Toy puzzle. No. 1,008,659; Nov. 14; Sp. p. 2343; Gaz. vol. 172; p. 396.
Mendenhall, Hiram, and B. R. Wonsmos; said Wonsmos assignor to J. Weighton, Audubon, Iowa. Wrench. No. 984,691; Feb. 21; Sp. p. 3129; Gaz. vol. 163; p. 554.
Mendenhall, John B., Kansas City, Mo. Bearing. No. 1,003,485; Sept. 19; Sp. p. 2824; Gaz. vol. 170; p. 516.
Mendenhall, Joseph W., Des Moines, Iowa. Animal-trap. No. 983,921; Feb. 14; Sp. p. 1460; Gaz. vol. 163; p. 257.
Menegus, Jiulius, New York, N. Y. Combined sash balance and fastener. No. 1,008,846; Nov. 14; Sp. p. 2732; Gaz. vol. 172; p. 460.
Mengel, Ulysses G. (See Hines, George, assignor.)
Menger, Joseph R. W., New York, N. Y. Lubricator. No. 990,895; May 2; Sp. p. 143; Gaz. vol. 166; p. 27.
Menger, Joseph R. W., New York, N. Y. Cigarette-box. No. 1,010,442; Dec. 5; Sp. p. 76; Gaz. vol. 173; p. 16.
Menges, Albert C., assignor to S. R. Corbitt and W. J. Richardson, Memphis, Tenn. Engine-starting device. No. 981,868; Jan. 17; Sp. p. 3768; Gaz. vol. 162; p. 637.
Menges, Charles J., St. Louis, Mo. Power-transmitting mechanism. No. 992,577; May 16; Sp. p. 3755; Gaz vol. 166; p. 672.
Menges, Charles J., St. Louis, Mo. Roundabout. No. 1,011,984; Dec. 19; Sp. p. 3567; Gaz. vol. 173; p. 624.
Menges, Theodore C., assignor to W. W. Marsh, Waterloo, Iowa. Speed-regulator for internal-combustion engines. No. 980,658; Jan. 3; Sp. p. 1056; Gaz. vol. 162; p. 167.
Menighan, Patrick J., Wilkes-Barre, Pa. Bill-holding attachment for money-drawers. No. 986,075; Mar. 7; Sp. p. 683; Gaz vol. 164; p. 109.
Menne, Ernst. (See Debus and Menne.)
Menningen, Joseph F., Oakley Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Oil-switch. No. 1,010,937; Dec. 5; Sp. p. 1196; Gaz. vol. 173; p. 188.
Menns, Walter K., Malden, Mass. Speed indicating and recording mechanism. No. 997,075; July 4; Sp. p. 1022; Gaz. vol. 168; p. 164.
Menns, Walter K., Malden, assignor to Chelsea Clock Company, Boston, Mass. Ship's-bell clock. No. 1,001,668; Aug. 29; Sp. p. 5268; Gaz. vol. 169; p. 975.
Menns, Walter K., Malden, assignor to C. H. Pearson, Brookline, Mass. Electromagnetic instrument. No. 1,008,484; Nov. 14; Sp. p. 1948; Gaz. vol. 172; p. 333.
Mensing, Bruckmann & Co. (See Bruckmann, Franz, assignor.)
Mensing, Louis C. H., Edinburgh, Scotland. Electric-arc lamp. No. 996,501; June 27; Sp. p. 5284; Gaz. vol. 167; p. 927.
Menteyne, Paul M., and P. A. Degaille, Paris, France. Automatic firearm. No. 981,210; Jan. 10; Sp. p. 2346; Gaz. vol. 162; p. 387.
Mento, Joseph, Sacramento, Cal. Automatic street-railway switch. No. 1,008,660; Nov. 14; Sp. p. 2344; Gaz. vol. 172; p. 396.
Menville, Joseph J., Houma, La. Water-gage. No. 989,919; Apr. 18; Sp. p. 3490; Gaz. vol. 165; p. 607.
Menzel, Albert E., Boston, Mass. Pliers. No. 1,008,176; Nov. 7; Sp. p. 1119; Gaz. vol. 172; p. 185.
Menzenhauer, Frederick, Jersey City, N. J. Zither-keyboard. No. 989,275; Apr. 11; Sp. p. 2078; Gaz. vol. 165; p. 355.
Menzies, George H., Pittsburg, Pa. Lubricator. No. 987,735; Mar. 28; Sp. p. 4182; Gaz. vol. 164; p. 763.
Menzies, Percy, A. F. and S. A. Cullon, assignors of one-fourth to R. Campbell, Detroit, Mich. Transmission mechanism. No. 981,298; Jan. 10; Sp. p. 2573; Gaz. vol. 162; p. 419.
Menzies, Thomas G. (See Gibb and Menzies.)
Méran, Marcel and M. M., Paris, France. Heating apparatus. No. 994,599; June 6; Sp. p. 1030; Gaz. vol. 167; p. 172.
Méran, Maurice M. (See Méran, Marcel and M. M.)
Mercedes Bureau-Maschinen Gesellschaft m. b. H. (See Hamann, Christel, assignor.)
Mercer, Clarence E., Denver, Colo. Fire-hose reel. No. 1,001,208; Aug. 22; Sp. p. 4333; Gaz. vol. 169; p. 789.
Mercer, Henry H. (See Ball and Mercer.)
Mercer, Henry H., assignor to Sullivan Machinery Company, Claremont, N. H. Channeling-machine. No. 1,011,221; Dec. 12; Sp. p. 1849; Gaz. vol. 173; p. 320.
Mercer, Ivor E., Gravesend, England. Valve. No. 982,286; Jan. 24; Sp. p. 4689; Gaz. vol. 162; p. 810.
Mercer, Richard E., Detroit, Mich. Sphygmomanometer. No. 998,916; July 25; Sp. p. 5074; Gaz. vol. 168; p. 910.
Mercer, Thomas. (See Emmott and Mercer.)
Merchant, Frank D., *et al.* (See Pearson, John, assignor.)
Merchant, Percy W., assignor of one-half to Sylvanus Smith & Company, Incorporated, Gloucester, Mass. Package. No. 1,009,771; Nov. 28; Sp. p. 4743; Gaz. vol. 172; p. 859.
Merckens, August, New York, N. Y. Mill. No. 1,000,745; Aug. 15; Sp. p. 3297; Gaz. vol. 169; p. 596.
Meredith, Glenn, assignor to F. Acker, Philadelphia, Pa. Device for dispensing drinking-straws. No. 986,929; Mar. 14; Sp. p. 2481; Gaz. vol. 164; p. 429.
Meredith, James W., Carthage, Mo. Trace-holder. No. 980,984; Jan. 10; Sp. p. 1845; Gaz. vol. 162; p. 308.
Mergenthaler Linotype Company. (See Albrecht, Christian A., assignor.)
Mergenthaler Linotype Company. (See Bedell, Richard M., assignor.)
Mergenthaler Linotype Company. (See Bertram, William E., assignor.)
Mergenthaler Linotype Company. (See Degener, Heinrich, assignor.)
Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
Mergenthaler Linotype Company. (See Mayer, Jacques, assignor.)
Mergenthaler Linotype Company. (See McNamara, James, assignor.)
Mergenthaler Linotype Company. (See Muehleisen, Carl, assignor.)
Mergenthaler Linotype Company. (See Rogers, John R., assignor.)
Mergenthaler Linotype Company. (See Scharf, William H., assignor.)
Meriwether, Charles N., Trenton, Ky. Treating phosphate rock. No. 1,002,297; Sept. 5; Sp. p. 255; Gaz. vol. 170; p. 34.
Merkel, Arthur E. (See Blyth, Henry A., assignor.)
Merkel, Arthur E., *et al.* (See Minor, Clarence R., assignor.)
Merker, Melvin E., New York, N. Y. Tooth. No. 996,502; June 27; Sp. p. 5285; Gaz. vol. 167; p. 927.
Merkin, Rose, Boston, Mass. Corset. No. 1,012,406; Dec. 19; Sp. p. 4482; Gaz. vol. 173; p. 768.
Merkl, Friedrich von, Vienna, Austria-Hungary. Riveting-machine. No. 1,010,938; Dec. 5; Sp. p. 1197; Gaz. vol. 173; p. 188.
Merlin, Sidney L. W., Paris, France. Type-writing machine. No. 1,012,888; Dec. 26; Sp. p. 5549; Gaz. vol. 173; p. 979.
Merling, Georg, and H. Köhler, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Methylketobutanol. No. 981,668; Jan. 17; Sp. p. 3334; Gaz. vol. 162; p. 566.
Merling, Georg, and H. Köhler, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Methylene-ethyl-methyl ketone. No. 981,669; Jan. 17; Sp. p. 3335; Gaz. vol. 162; p. 566.
Merling, Georg, and H. Köhler, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Ketone alcohols. No. 989,993; Apr. 18; Sp. p. 3656; Gaz. vol. 165; p. 633.
Merling, Georg, and H. Köhler, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Octadionols. No. 991,734; May 9; Sp. p. 1958; Gaz. vol. 166; p. 351.
Merling, Georg, and H. Köhler, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Octenediones. No. 991,735; May 9; Sp. p. 1959; Gaz. vol. 166; p. 351.
Meronek, Nick, Polonia, Wis. Distributing-machine. No. 998,107; July 18; Sp. p. 3280; Gaz. vol. 168; p. 591.
Merrege, Frank C., Marine City, assignor to Safety Light & Heating Company of America, Detroit, Mich. Gas and air mixer. No. 989,174; Apr. 11; Sp. p. 1855; Gaz. vol. 165; p. 322.
Merrege, Frank C., Marine City, assignor to Safety Light & Heating Company of America, Detroit, Mich. Valve mechanism. No. 992,729; May 16; Sp. p. 4055; Gaz. vol. 166; p. 724.
Merrell, Howard E., *et al.* (See Gill, Edwin R., assignor.) (Reissue.)
Merrell, Irving S. (See Merrell and Gere.)
Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Apparatus for desiccating liquids. No. 985,747; Feb. 28; Sp. p. 5421; Gaz. vol. 163; p. 951.
Merrell, Lewis C., assignor to Merrell-Soule Company, Syracuse, N. Y. Food obtained from whey. No. 985,271; Feb. 28; Sp. p. 4373; Gaz. vol. 163; p. 788.
Merrell, Lewis C., assignor to Merrell-Soule Company, Syracuse, N. Y. Acid milk powder. No. 1,000,686; Aug. 15; Sp. p. 3177; Gaz. vol. 169; p. 575.

Alphabetical list of patentees—Continued.

Merrell, Lewis C. and I. S., and W. B. Gere, assignors to Merrell-Soule Company, Syracuse, N. Y. Apparatus for recovering the constituent solids of liquids and semi-liquids. No. 1,000,931; Aug. 15; Sp. p. 3684; Gaz. vol. 169; p. 661.
Merrell-Soule Company. (See Merrell, Irving S., assignor.)
Merrell-Soule Company. (See Merrell, Lewis C., assignor.)
Merrell-Soule Company. (See Merrell and Gere, assignors.)
Merriam, Henry P., New York, N. Y. Controlling mechanism for looms. No. 981,299; Jan. 10; Sp. p. 2574; Gaz. vol. 162; p. 420.
Merriam, Henry P., New York, N. Y. Controlling mechanism for looms. No. 1,000,746; Aug. 15; Sp. p. 3298; Gaz. vol. 169; p. 596.
Merriam, Lyman W., Fitchburg, Mass. Milk-bottle filler. No. 980,985; Jan. 10; Sp. p. 1847; Gaz. vol. 162; p. 308.
Merrick, Asa L. (See Lawson, Benjamin S., assignor.)
Merrick, Frank W., assignor to Power Numbering Machine Company, Boston, Mass. Stamping, marking, or numbering machine. No. 984,588; Feb. 21; Sp. p. 2906; Gaz. vol. 163; p. 517.
Merrick, Frank W., assignor to American Stay Company, Boston, Mass. Seam-closing strip. No. 985,748; Feb. 28; Sp. p. 5424; Gaz. vol. 163; p. 951.
Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Stitch-separating mechanism. No. 1,008,177; Nov. 7; Sp. p. 1121; Gaz. vol. 172; p. 185.
Merrick, George H., St. Louis, Mo. Noise-making device. No. 993,454; May 30; Sp. p. 5632; Gaz. vol. 166; p. 1031.
Merrick, Hattie P., Brookline, Mass. Foot-covering. No. 1,009,772; Nov. 28; Sp. p. 4744; Gaz. vol. 172; p. 859.
Merrill, Alfred H., Toledo, Ohio. Coil-heater. No. 990,763; Apr. 25; Sp. p. 5381; Gaz. vol. 165; p. 928.
Merrill, Alfred H., Toledo, Ohio. Water-heater. No. 994,084; May 30; Sp. p. 6959; Gaz. vol. 166; p. 1248.
Merrill, Alfred H., Toledo, Ohio. Burner. No. 1,004,291; Sept. 26; Sp. p. 4644; Gaz. vol. 170; p. 822.
Merrill, Augustus A., Pioneer, assignor of one-half to H. C. Barnes, Rolfe, Iowa. Vehicle running-gear. No. 981,583; Jan. 10; Sp. p. 3167; Gaz. vol. 162; p. 516.
Merrill, Charles W., Alameda, Cal. Container for pressure-filters. No. 987,904; Mar. 28; Sp. p. 4560; Gaz. vol. 164; p. 821.
Merrill, Charles W., Berkeley, Cal. Precipitating hydrometallurgical solutions by means of an improved precipitant. No. 1,006,865; Oct. 24; Sp. p. 5092; Gaz. vol. 171; p. 898.
Merrill, Charles W., Berkeley, Cal. Precipitating hydrometallurgical solutions by means of an improved precipitant. No. 1,006,866; Oct. 24; Sp. p. 5094; Gaz. vol. 171; p. 899.
Merrill, Eugene A., assignor of one-half to Grand Rapids Fireless Cookstove Company, Grand Rapids, Mich. Insulating material. No. 1,003,773; Sept. 19; Sp. p. 3471; Gaz. vol. 170; p. 617.
Merrill, George S. (See Jandrier and Merrill.)
Merrill, Pearl W. (See Phillipps, Benjamin H., assignor.)
Merrill, William L., Portland, Me. Rotary engine. No. 986,641; Mar. 14; Sp. p. 1883; Gaz. vol. 164; p. 333.
Merrill, Zachara T., Chicago, Ill. Device for directing the attention to advertising-signs. No. 1,006,769; Oct. 24; Sp. p. 4863; Gaz. vol. 171; p. 864.
Merriman, Frederick W., Alameda, Cal. Level. No. 1,007,303; Oct. 31; Sp. p. 6051; Gaz. vol. 171; p. 1104.
Merritt, Benjamin F., Canton, Mass. Ignition-plug. No. 1,008,351; Nov. 14; Sp. p. 1572; Gaz. vol. 172; p. 286.
Merritt, Charles H., St. Paul, Minn. Car-fender. No. 1,011,222; Dec. 12; Sp. p. 1855; Gaz. vol. 173; p. 321.
Merritt, Claudius F., Lakeland, Fla. Drier. No. 991,871; May 9; Sp. p. 2222; Gaz. vol. 166; p. 397.
Merritt, George T., assignor to E. Ragland, Atlanta, Ga. Trap-nest for fowls. No. 990,821; Apr. 25; Sp. p. 5506; Gaz. vol. 165; p. 948.
Merritt, George W., Avalon, Pa., assignor to George W. Merritt Company. Attachment for hats. No. 1,000,426; Aug. 15; Sp. p. 2592; Gaz. vol. 169; p. 482.
Merritt, James M., assignor of one-half to R. E. Goodrich, Los Angeles, Cal. Washing-machine. No. 1,012,407; Dec. 19; Sp. p. 4486; Gaz. vol. 173; p. 768.
Merritt, Jesse T., Jackson, Tenn. Harness-buckle. No. 1,000,279; Aug. 8; Sp. p. 2255; Gaz. vol. 169; p. 399.
Merritt, Joseph, Hartford, Conn., assignor to Union Paper Bag Machine Company, Philadelphia, Pa. Paper-bag machine. No. 995,477; June 20; Sp. p. 3014; Gaz. vol. 167; p. 537.
Merritt, Matthew M., Middleton, Mass., assignor to National Electric Lamp Company, Cleveland, Ohio. Incandescent lamp. No. 995,077; June 13; Sp. p. 2166; Gaz. vol. 167; p. 376.
Merritt, Matthew M., Middleton, Mass., assignor to National Electric Lamp Company, Cleveland, Ohio. Incandescent lamp. No. 1,010,165; Nov. 28; Sp. p. 5536; Gaz. vol. 172; p. 991.
Merritt, Matthew M., Middleton, Mass., assignor to National Electric Lamp Company, Cleveland, Ohio. Incandescent lamp. No. 1,010,295; Nov. 28; Sp. p. 5806; Gaz. vol. 172; p. 1035.
Merrow, Charles E. A., Boston, Mass. Shoe-horn. No. 990,283; Apr. 25; Sp. p. 4274; Gaz. vol. 165; p. 762.
Merrow, Edgar L. (See O'Connell, James F., assignor.)
Merrow Machine Company, The. (See Gould, Harry B., assignor.)
Merrow Machine Company, The. (See Stedman, William H., assignor.)
Merry, William F., *et al.* (See Neville, Harry, assignor.)
Merryman, William F., assignor of one-half to P. Hoffman, Denver, Colo. Combined respirator and pressure-equalizer. No. 1,003,935; Sept. 19; Sp. p. 3818; Gaz. vol. 170; p. 671.
Mersereau, Jacob, Port Chester, N. Y., assignor to Abendroth Brothers. Stove. No. 1,009,085; Nov. 21; Sp. p. 3254; Gaz. vol. 172; p. 575.
Mershon, Ralph D., New York, N. Y. Production of predetermined distribution of magnetic flux in electric motors, generators, and other apparatus. No. 998,026; July 18; Sp. p. 3088; Gaz. vol. 168; p. 563.
Mershon, Ralph D., New York, N. Y. Forming dielectric films. No. 1,012,889; Dec. 26; Sp. p. 5551; Gaz. vol. 173; p. 979.
Merten, Paul A., Westcliffe, Colo. Universal joint. No. 999,831; Aug. 8; Sp. p. 1255; Gaz. vol. 169; p. 245.
Mertens, Eduard, Freiberg, Breisgau, Germany. Apparatus for coating printing-rolls. No. 983,743; Feb. 7; Sp. p. 1036; Gaz. vol. 163; p. 166.
Mertens, Eduard, Gross-Lichterfelde Ost, Germany. Lighting in photography. No. 1,001,549; Aug. 22; Sp. p. 5002; Gaz. vol. 169; p. 902.
Mertz, Albert F., and J. Ruhl, Louisville, Ky.; said Mertz assignor to said Ruhl. Stovepipe cleaner and damper. No. 997,572; July 11; Sp. p. 2019; Gaz. vol. 168; p. 360.
Mertz, Andrew, *et al.* (See Schadel, William E., assignor.)
Mertz, W. H., *et al.* (See Kersteter, James F., assignor.)
Mervine, Vincent O., Stroudsburg, Pa. Tire. No. 986,930; Mar. 14; Sp. p. 2483; Gaz. vol. 164; p. 429.
Mervine, Vincent O., Stroudsburg, Pa. Wheel. No. 987,009; Mar. 14; Sp. p. 2631; Gaz. vol. 164; p. 454.
Merwin, George H., Milford, Conn. Self-oiling wheel. No. 987,810; Mar. 28; Sp. p. 4333; Gaz. vol. 164; p. 789.
Merwin, George H., Milford, Conn. Journal-support. No. 1,012,213; Dec. 19; Sp. p. 4096; Gaz. vol. 173; p. 703.
Merz Capsule Company. (See Merz, Theodore C., assignor.)
Merz, Theodore C., assignor to Merz Capsule Company, Detroit, Mich. Chain carrier. No. 993,313; May 23; Sp. p. 5299; Gaz. vol. 166; p. 951.
Mesmer, Joseph. (See Kenney, Augustine, assignor.)
Messenger, Isaiah L., assignor of one-half to R. D. Burdick and one-eighth to I. H. Babcock, De Ruyter, N. Y. Wood-screw. No. 1,000,280; Aug. 8; Sp. p. 2257; Gaz. vol. 169; p. 400.
Messer, Eldridge L. (See Kazanjian, Gabriel M., assignor.)
Messer, Vladimir V., Los Angeles, Cal. Rotary plunge-bath. No. 984,956; Feb. 21; Sp. p. 3657; Gaz. vol. 163; p. 645.
Messer, Vladimir V., Los Angeles, assignor to H. J. and J. B. Brubacher and E. E. Teague, San Dimas, Cal. Irrigation-valve. No. 989,920; Apr. 18; Sp. p. 3490; Gaz. vol. 165; p. 607.
Messer, Vladimir V., Los Angeles, assignor to H. J. and J. B. Brubaker and E. E. Teague, San Dimas, Cal. Valve. No. 1,000,617; Aug. 15; Sp. p. 3041; Gaz. vol. 169; p. 552.
Messerli, John J., Kingsville, Tex. Automobile-wheel. No. 1,002,727; Sept. 5; Sp. p. 1230; Gaz. vol. 170; p. 183.
Messerschmid, Carl, New York, assignor to The Duplex Magneto and Spark Plug Company, Brooklyn, N. Y. Igniter for internal-combustion engines. No. 1,008,178; Nov. 7; Sp. p. 1123; Gaz. vol. 172; p. 185.
Messersmith, John, Buffalo, N. Y. Cabinet. No. 998,195; July 18; Sp. p. 3449; Gaz. vol. 168; p. 622.
Messick, Charlton, St. Louis, Mo. Transportation-scrip and mileage-ticket. No. 1,011,223; Dec. 12; Sp. p. 1857; Gaz. vol. 173; p. 321.
Messinger, Charles F., assignor to Chicago Nut Company, Chicago, Ill. Nut-tapping machine. No. 985,827; Mar. 7; Sp. p. 122; Gaz. vol. 164; p. 24.
Messink, William B., Worthville, Ky. Fifth-wheel. No. 986,482; Mar. 14; Sp. p. 1545; Gaz. vol. 164; p. 276.
Messiter, Edwin H., Brooklyn, N. Y. Belt-conveyer pulley. No. 987,157; Mar. 21; Sp. p. 2934; Gaz. vol. 164; p. 536.
Messiter, Edwin H., Brooklyn, N. Y. Universal joint. No. 993,701; May 30; Sp. p. 6189; Gaz. vol. 166; p. 1119.
Messiter, Edwin H., Brooklyn, assignor to Electric Weighing Company, New York, N. Y. Weighing mechanism. No. 998,974; July 25; Sp. p. 5222; Gaz. vol. 168; p. 931.
Messler, George T., Fullerton, Cal. Limb-support. No. 992,514; May 16; Sp. p. 3624; Gaz. vol. 166; p. 650.
Messler, Matie C. (See Wattles, Luther H., assignor.)
Messler, Matie C., Pawtucket, R. I. Collar-supporter. No. 987,638; Mar. 21; Sp. p. 3942; Gaz. vol. 164; p. 702.
Messlin, Rudolph, New York, N. Y. Elevator for ash-cans and the like. No. 986,483; Mar. 14; Sp. p. 1547; Gaz. vol. 164; p. 276.
Messlin, Rudolph, assignor to Water Vibrator Company, New York, N. Y. Turbine-vibrator. No. 1,006,770; Oct. 24; Sp. p. 4864; Gaz. vol. 171; p. 864.

Alphabetical list of patentees—Continued.

Mesta, Charles J., and S. E. Diescher, Pittsburgh, Pa. Manufacture of sheets, plates, &c. No. 1,010,510; Dec. 5; Sp. p. 254; Gaz. vol. 173; p. 40.
Mesta, Charles J., and S. E. Diescher, Pittsburgh, Pa. Drying sheets. No. 1,010,511; Dec. 5; Sp. p. 255; Gaz. vol. 173; p. 40.
Mesta, Charles J., and S. E. Diescher, Pittsburgh, Pa. Drying sheets. No. 1,011,072; Dec. 5; Sp. p. 1464; Gaz. vol. 173; p. 233.
Mesta, Frederick E., Pittsburgh, Pa. Billet-turning device. No. 1,006,582; Oct. 24; Sp. p. 4484; Gaz. vol. 171; p. 800.
Mesta Machine Company. (See Iversen, Lorenz, assignor.)
Mesta Machine Company. (See Keller, Albert T., assignor.)
Meston, Charles R., and H. I. Finch, assignors to Emerson Electric Manufacturing Company, St. Louis, Mo. Electric-switch-operating rod. No. 1,000,536; Aug. 15; Sp. p. 2827; Gaz. vol. 169; p. 521.
Meszaros, Frank, New York, N. Y. Safety-lock for windows. No. 986,737; Mar. 14; Sp. p. 2077; Gaz. vol. 164; p. 364.
Metal Screen & Cottage Co. (See McMillin, Howard S., assignor.)
Metal Screen & Manufacturing Co., The. (See Whellams, Creasey J., assignor.)
Metal Sectional Furniture Company. (See Manny, Fred L., assignor.)
Metal Shelter Company, The. (See Pruden, Allan K., assignor.)
Metal Specialties Manufacturing Company. (See Buckingham, Frank W., assignor.)
Metal Stamping Company. (See Boeck, Charles H., assignor.)
Metallic Barrel Company, The. (See Bauroth, Leonhard, assignor.)
Metallic Barrel Company, The. (See Brown, Louis O., assignor.)
Metallic Barrel Company, The. (See Brown and Bauroth, assignors.)
Metallic Company, The. (See Berthold, George H., assignor.)
Metallurgica Breciana Gia Tempini. (See Provaglio, Alessandro, assignor.)
Metals Extraction Corporation. (See Hommel, Woldemar, assignor.)
Metals Extraction Corporation Limited, The. (See Durant, Henry T., assignor.)
Metals Extraction Corporation Limited, The. (See Hommel and Durant, assignors.)
Metals Extraction Corporation Limited, The. (See MacIvor and Hommel, assignors.)
Metcalf, Arthur S. E., Driscoll, N. D. Wrench. No. 993,268; May 23; Sp. p. 5219; Gaz. vol. 166; p. 936.
Metcalf, Charles W., San Diego, Cal. Device for tapping and controlling the flow of liquids in pipes. No. 997,464; July 11; Sp. p. 1791; Gaz. vol. 168; p. 325.
Metcalf, Frank G., Bridgeport, Conn. Insulated connection for metallic railway-ties. No. 998,108; July 18; Sp. p. 3283; Gaz. vol. 168; p. 592.
Metcalf, George A., and L. T. Rocheleau, Woonsocket, R. I. Internal-combustion engine. No. 1,010,939; Dec. 5; Sp. p. 1201; Gaz. vol. 173; p. 188.
Metcalf, George E., Worcester, Mass. Rotary file. No. 992,437; May 16; Sp. p. 3461; Gaz. vol. 166; p. 623.
Metcalf, George H., assignor of one-half to W. E. Wisner, Wilkinson, Miss. Combined harrow and planter. No. 990,061; Apr. 18; Sp. p. 3784; Gaz. vol. 165; p. 655.
Metcalfe, Alfred E. (See Chipchase and Metcalfe.)
Metcalfe, Frederick, Greenville, Miss. Cotton-chopper. No. 1,010,296; Nov. 28; Sp. p. 5809; Gaz. vol. 172; p. 1035.
Meter, William F., and W. L. Rideout, assignors to Electrical Manufacturing Company, Oshkosh, Wis. Automatic electric-circuit breaker. No. 980,812; Jan. 3; Sp. p. 1355; Gaz. vol. 162; p. 217.
Metosh, Anthony, assignor to F. B. Metosh, East Syracuse, N. Y. Train-pipe coupling. No. 997,076; July 4; Sp. p. 1024; Gaz. vol. 168; p. 164.
Metosh, Frank B. (See Metosh, Anthony, assignor.)
Metropolitan Sewing Machine Company. (See Sutton, Fred A., assignor.)
Metropolitan Sewing Machine Company. (See Weis, John P., assignor.)
Metropolitan Sewing Machine Company. (See Weis and Krug, assignors.)
Metropolitan Switchboard Company. (See Newton, William J., assignor.)
Metten, John F., Philadelphia, Pa. Under-water ash-ejector. No. 990,369; Apr. 25; Sp. p. 4478; Gaz. vol. 165; p. 792.
Mettler, Hans W., Zurich, Switzerland. Device for measuring and indicating lengths of woven materials. No 1,011,635; Dec. 12; Sp. p. 2821; Gaz. vol. 173; p. 470
Mettler, William J., Lewistown, Mont., assignor of one-half to J. Uehlin, De Kalb, Ill. Fence-post. No. 987,251; Mar. 21; Sp. p. 3152; Gaz. vol. 164; p. 571.
Metzel, Anton, Lonsdale, Minn. Safety-stirrup. No. 995,166; June 13; Sp. p. 2337; Gaz. vol. 167; p. 404.
Metzgar, Leroy, assignor to The Simple Account Salesbook Company, Fremont, Ohio. Physician's account-book. No. 1,006,115; Oct. 17; Sp. p. 3382; Gaz. vol. 171; p. 603.
Metzger, Amandus. (See Hall and Metzger.)
Metzger, David, New York, N. Y. Making imitation-feather articles. No. 988,010; Mar. 28; Sp. p. 4820; Gaz. vol. 164; p. 859.
Metzger, David, New York, N. Y. Imitation willow plume. No. 1,009,433; Nov. 21; Sp. p. 4067; Gaz. vol. 172; p. 701.
Metzger, David, New York, N. Y. Imitation-feather article. No. 1,012,264; Dec. 19; Sp. p. 4199; Gaz. vol. 173; p. 720.
Metzger, Emanuel, New York, N. Y. Means for packing and transporting garments, &c. No. 994,419; June 6; Sp. p. 660; Gaz. vol. 167; p. 113.
Metzger, Ferdinand F., Philadelphia, Pa. Crane for phonograph-horns or sound-amplifiers. No. 998,917; July 25; Sp. p. 5074; Gaz. vol. 168; p. 910.
Metzger, Ferdinand F., assignor to Williams, Brown and Earle, Inc., Philadelphia, Pa. Stereopticon. No. 1,003,774; Sept. 19; Sp. p. 3471; Gaz. vol. 170; p. 617.
Metzger, Floyd J. (See Whitaker and Metzger.)
Metzger, Fritz L., Coraopolis, assignor to R. A. Cummings, Pittsburgh, Pa. Making reinforcement units for slabs. No. 1,005,267; Oct. 10; Sp. p. 1513; Gaz. vol. 171; p. 274.
Metzger, Gaston, Kansas City, Mo. Shoe-polisher. No. 982,287; Jan. 24; Sp. p. 4691; Gaz. vol. 162; p. 811.
Metzger, Harry C., Los Angeles, Cal. Gage. No. 994,770; June 13; Sp. p. 1478; Gaz. vol. 167; p. 271.
Metzger, John. (See Goldsmith and Metzger.)
Metzger, William H., assignor of one-half to J. E. Frailey, Canton, Ohio. Pliers. No. 1,005,268; Oct. 10; Sp. p. 1515; Gaz. vol. 171; p. 274.
Metzler, Peter M., Ascot Vale, Victoria, Australia. Seed and fertilizer drill. No. 1,006,771; Oct. 24; Sp. p. 4867; Gaz. vol. 171; p. 864.
Metzroth, William, Middletown, Conn. Adjustable shock-absorbing foot. No. 997,842; July 11; Sp. p. 2658; Gaz. vol. 168; p. 456.
Meunier, Louis. (See Seyewetz and Meunier.)
Meunier, Louis, Lyon, France. Treatment of animal substances, such as wool, silk, or hair. No. 998,370; July 18; Sp. p. 3874; Gaz. vol. 168; p. 688.
Meurling, Ivar, Brooklyn, assignor to Empire Duplex Gin Company, New York, N. Y. Cotton-gin. No. 1,011,636; Dec. 12; Sp. p. 2823; Gaz. vol. 173; p. 471.
Meves, Gustav N., Davenport, Iowa. Operating mechanism for washing-machines. No. 987,389; Mar. 21; Sp. p. 3447; Gaz. vol. 164; p. 617.
Mewes, Rudolf, Berlin, Germany. Liquefying air and separating out oxygen. No. 980,813; Jan. 3; Sp. p. 1357; Gaz. vol. 162; p. 217.
Mewis, August F., Waverly, Iowa. Carpet-beater. No. 1,007,131; Oct. 31; Sp. p. 5689; Gaz. vol. 171; p. 1043.
Mews, Friedrich W., Moscow, Russia. Padlock. No. 1,008,979; Nov. 14; Sp. p. 3009; Gaz. vol. 172; p. 502.
Meyer, Adolph E., Webster Groves, assignor to Zittlosen Manufacturing Co., St. Louis, Mo. Grass-catcher. No. 996,108; June 27; Sp. p. 4376; Gaz. vol. 167; p. 792.
Meyer, Adolph E., Webster Groves, assignor to Zittlosen Manufacturing Company, St. Louis, Mo. Grass-catcher. No. 1,002,728; Sept. 5; Sp. p. 1232; Gaz. vol. 170; p. 183.
Meyer, Adolph H., Pukwana, S. D. Traction-wheel. No. 990,579; Apr. 25; Sp. p. 4967; Gaz. vol. 165; p. 867.
Meyer, Adolph J. (See Meyer, Charles F. and A. J.)
Meyer, Albert F. W., Chicago, Ill., assignor to J. H. McGill, Valparaiso, Ind. Locking attachment for incandescent electric lamps. No. 991,872; May 9; Sp. p. 2224; Gaz. vol. 166; p. 397.
Meyer, Albert W., New York, N. Y. Steam-cooker. No. 1,010,940; Dec. 5; Sp. p. 1203; Gaz. vol. 173; p. 189.
Meyer, Barney, assignor to Elevator Supply & Repair Company, Chicago, Ill. Valve mechanism. No. 999,392; Aug. 1; Sp. p. 398; Gaz. vol. 169; p. 70.
Meyer, Carl H., Washington, Pa. Vehicle. No. 1,005,450; Oct. 10; Sp. p. 1918; Gaz. vol. 171; p. 339.
Meyer, Charles, Cissna Park, Ill. Musical instrument. No. 989,628; Apr. 18; Sp. p. 2870; Gaz. vol. 165; p. 507.
Meyer, Charles F., New York, N. Y., and A. J. Meyer, West Hoboken, N. J. Carbureter. No. 997,929; July 11; Sp. p. 2850; Gaz. vol. 168; p. 487.
Meyer, Conrad, Union Center, Wis. Potato-harvester. No. 1,000,186; Aug. 8; Sp. p. 2062; Gaz. vol. 169; p. 367.
Meyer, Edward F., Beaufort, Mo. Broom-bridle. No. 998,255; July 18; Sp. p. 3588; Gaz. vol. 168; p. 644.
Meyer, Edward H., *et al.* (See Gieselmann, Edward, assignor.)
Meyer, Edward W. (See Smith and Meyer.)
Meyer, Einar H., and J. M. A. Stillesen, Niagara Falls Centre, Ontario, Canada. Preparation of nitrogen compounds. No. 982,288; Jan. 24; Sp. p. 4692; Gaz. vol. 162; p. 811.
Meyer, Ernest, *et al.* (See Macduffee, Chester E., assignor.)
Meyer, Erwin E. A. G., New Brunswick, N. J. Recovering rubber waste. No. 986,931; Mar. 14; Sp. p. 2484; Gaz. vol. 164; p. 430.

Meyer, Felix. (See Weber, Ludwig, assignor.)
Meyer, Frank, assignor to The Natural Food Company, Niagara Falls, N. Y. Cutting-machine. No. 1,007,721; Nov. 7; Sp. p. 151; Gaz. vol. 172; p. 25.
Meyer, Frank, deceased, and G. Harms, Peoria, Ill.; Dime Savings & Trust Co. and G. F. Meyer executors of said Frank Meyer. Furnace. No. 1,011,132; Dec. 5; Sp. p. 1613; Gaz. vol. 173; p. 255.
Meyer, Franz, assignor to The Firm of C. Zeiss, Jena, Germany. Tripod with hinged legs. No. 1,000,618; Aug. 15; Sp. p. 3042; Gaz. vol. 169; p. 553.
Meyer, Franz, assignor to R. Wedekind & Co. m. b. H., Uerdingen-on-the-Rhine, Germany. Making sulfur dioxid. No. 1,008,847; Nov. 14; Sp. p. 2733; Gaz. vol. 172; p. 460.
Meyer, Frederick C., St. Louis, Mo. Mail-box. No. 1,006,772; Oct. 24; Sp. p. 4868; Gaz. vol. 171; p. 865.
Meyer, George and J., Pittsburgh, Pa. Horseshoe-creeper device. No. 1,007,226; Oct. 31; Sp. p. 5905; Gaz. vol. 171; p. 1077.
Meyer, George F., *et al.*, executors. (See Meyer and Harms.)
Meyer, George H., Buffalo, N. Y. Malting apparatus. No. 998,027; July 18; Sp. p. 3095; Gaz. vol. 168; p. 563.
Meyer, George S., Newburgh, N. Y. Calk-bearing overshoe. No. 984,957; Feb. 21; Sp. p. 3658; Gaz. vol. 163; p. 645.
Meyer, Gottfried, Zurich, Switzerland. Scoop for baling narrow shafts. No. 983,077; Jan. 31; Sp. p. 6377; Gaz. vol. 162; p. 1108.
Meyer, Hans S., Bremen, Germany, assignor to General Electric Company. Alternating-current electric motor. No. 980,986; Jan. 10; Sp. p. 1849; Gaz. vol. 162; p. 308.
Meyer, Hermann, New York, N. Y. Pneumatic action. No. 1,002,072; Aug. 29; Sp. p. 6137; Gaz. vol. 169; p. 1109.
Meyer, Hermann, New York, N. Y. Auxiliary stopping device. No. 1,002,073; Aug. 29; Sp. p. 6139; Gaz. vol. 169; p. 1110.
Meyer, James G. (See Paul, Lynch, and Meyer.)
Meyer, Joannes C. A. (See Koetschet and Meyer.)
Meyer, Johann F., Jr., L. Roselius, and K. H. Wimmer, assignors to The Kaffee-Handels-Aktiengesellschaft, Bremen, Germany. Preparation or treatment of coffee. (Reissue.) No. 13,261; June 27; Sp. p. 5482; Gaz. vol. 167; p. 959.
Meyer, Johann F., Jr., L. Roselius, and K. H. Wimmer, assignors to The Kaffee-Handels-Aktiengesellschaft, Bremen, Germany. Preparation or treatment of coffee. (Reissue.) No. 13,262; June 27; Sp. p. 5484; Gaz. vol. 167; p. 959.
Meyer, Johann F., Jr., L. Roselius, and K. H. Wimmer, assignors to The Kaffee-Handels-Aktiengesellschaft, Bremen, Germany. Preparation or treatment of coffee. (Reissue.) No. 13,263; June 27; Sp. p. 5485; Gaz. vol. 167; p. 959.
Meyer, John. (See Meyer, George and J.)
Meyer, John E., Shepherd, Mich. Tunnel. No. 1,004,889; Oct. 3; Sp. p. 759; Gaz. vol. 171; p. 121.
Meyer, John J., Yonkers, N. Y. Valve. No. 998,543; July 18; Sp. p. 4206; Gaz. vol. 168; p. 745.
Meyer, John J., Yonkers, N. Y. Siphon-flushing apparatus. No. 1,009,544; Nov. 21; Sp. p. 4286; Gaz. vol. 172; p. 738.
Meyer, John R. (See Koenig and Meyer.)
Meyer, Joseph J., Chicago, Ill. Hydrocarbon-burner. No. 983,634; Feb. 7; Sp. p. 808; Gaz. vol. 163; p. 129.
Meyer, Joseph W., Hillsboro, Ill. Fence-post. No. 987,639; Mar. 21; Sp. p. 3943; Gaz. vol. 164; p. 702.
Meyer, Julius, New York, N. Y., assignor to G. F. Spencer, Newark, N. J. Ventilated reflector. No. 1,008,661; Nov. 14; Sp. p. 2346; Gaz. vol. 172; p. 396.
Meyer, Karl, Bremen, Germany. Apparatus for drawing or marking lines on wearing-apparel. No. 996,996; July 4; Sp. p. 857; Gaz. vol. 168; p. 137.
Meyer & Klein. (See Blomberg, Per G., assignor.)
Meyer, Louis. (See MacArthur, William G., assignor.)
Meyer, Louis, St. Louis, Mo. Separator. No. 1,007,722; Nov. 7; Sp. p. 152; Gaz. vol. 172; p. 25.
Meyer, Otto. (See Elsner and Meyer.)
Meyer, Peter, Cologne-Nippes, Germany. Scale with automatically-issued record-cards. No. 991,343; May 2; Sp. p. 1107; Gaz. vol. 166; p. 185.
Meyer, Peter, assignor to American Oil & Supply Co., Newark, N. J. Brush-boring machine. No. 1,003,486; Sept. 19; Sp. p. 2825; Gaz. vol. 170; p. 516.
Meyer, Richard, *et al.* (See Pecci, Pio N., assignor.)
Meyer, Richard E., Detroit, Mich. Apparatus for sealing jars and bottles. No. 994,179; June 6; Sp. p. 155; Gaz. vol. 167; p. 27.
Meyer, William, Chicago, Ill. Induction-coil. No. 1,004,452; Sept. 26; Sp. p. 4980; Gaz. vol. 170; p. 876.
Meyer, William, Chicago, Ill. Induction-coil. No. 1,004,453; Sept. 26; Sp. p. 4981; Gaz. vol. 170; p. 876.
Meyer, William C., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Work-support. No. 984,772; Feb. 21; Sp. p. 3313; Gaz. vol. 163; p. 584.
Meyer, William C., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 984,773; Feb. 21; Sp. p. 3315; Gaz. vol. 163; p. 585.
Meyer, William C., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Wax-pot for sewing-machines. No. 1,011,224; Dec. 12; Sp. p. 1860; Gaz. vol. 173; p. 322.
Meyerhoffer, Henry C. (See Davis and Meyerhoffer.)
Meyers, Charles L. (See Gardner, Thomas W., assignor.)
Meyers, George H. (See Cogley, Glen B., assignor.)
Meyers, Herman A., and J. A. Elliott, assignors to Finn and Meyers, New York, N. Y. Necktie. No. 993,185; May 23; Sp. p. 5044; Gaz. vol. 166; p. 911.
Meyers, Jacob E., G. A. Hemphill, and E. Bowman, Remington, Ind. Grain-car door. No. 984,513; Feb. 14; Sp. p. 2718; Gaz. vol. 163; p. 456.
Meyers, John G., assignor of forty-five one-hundredths to P. M. Lippert, Pittsburg, Pa. Loose-leaf binder. No. 997,311; July 11; Sp. p. 1512; Gaz. vol. 168; p. 275.
Meyers, Joseph M., Pittsburgh, Pa. Tab for card-index systems. No. 1,008,352; Nov. 14; Sp. p. 1574; Gaz. vol. 172; p. 286.
Meyers & Son, Louis. (See Aaron and Oathout, assignors.)
Meyers, Willard F., Long Island City, N. Y. Stone and metal shaping machine. No. 987,390; Mar. 21; Sp. p. 3451; Gaz. vol. 164; p. 617.
Meyrowitz Manufacturing Co., The. (See Buchhop, Ferdinand, assignor.)
Meyrowitz Manufacturing Co., The. (See Kestner, Charles D., assignor.)
Meza, Joseph de, London, England. Tobacco-pipe. No. 999,120; July 25; Sp. p. 5501; Gaz. vol. 168; p. 979.
Mezger, Charles A., New York, N. Y. Spark-plug. No. 1,008,485; Nov. 14; Sp. p. 1951; Gaz. vol. 172; p. 333.
Miami Cycle & Manufacturing Company, The. (See Schenck, Murray, assignor.)
Mianus Motor Works. (See Gray, George, assignor.)
Michael, Anceal C., Goshen, assignor, by mesne assignments, to C. E. Lacey, Montgomery county, Ind., H. U. McCurdy, Reno, Kans., and W. H. O'Neall, Crawfordsville, Ind. Watering-trough. (Reissue.) No. 13,237; May 9; Sp. p. 2761; Gaz. vol. 166; p. 489.
Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Corn-planter. No. 1,003,936; Sept. 19; Sp. p. 3821; Gaz. vol. 170; p. 672.
Michaelis, Ernest. (See Jamison and Michaelis.)
Michaels, James I., and L. Gillette, Fairmont, W. Va. Flexible friction-splice for well-drilling. No. 999,461; Aug. 1; Sp. p. 525; Gaz. vol. 169; p. 92.
Michaels, Levin, Buffalo, N. Y. Automobile starting-crank. No. 984,014; Feb. 14; Sp. p. 1665; Gaz. vol. 163; p. 287.
Michaelsen, Charles O., Omaha, Nebr. Ore-crusher. No. 994,023; May 30; Sp. p. 6835; Gaz. vol. 166; p. 1227.
Michaelsen, Henry J., assignor to The Michaelsen Manufacturing Company Limited, Moscow, Idaho. Support for grain-cleaners. No. 995,167; June 13; Sp. p. 2340; Gaz. vol. 167; p. 405.
Michaelsen Manufacturing Company Limited. (See Michaelsen, Henry J., assignor.)
Michaelson, Claude I., Edinburgh, Scotland. Apparatus for severing and applying stamps. No. 994,085; May 30; Sp. p. 6960; Gaz. vol. 166; p. 1248.
Michaelson, Joseph M., Geneva, N. Y. Logarithmic scale. No. 1,001,061; Aug. 22; Sp. p. 4028; Gaz. vol. 169; p. 741.
Michalsky, Frank, Foley, Minn. Milking-stool. No. 986,401; Mar. 7; Sp. p. 1360; Gaz. vol. 164; p. 219.
Michaud, Joseph O., Fort Kent, Me. Transmission-gearing for motor-cars. No. 993,862; May 30; Sp. p. 6513; Gaz. vol. 166; p. 1174.
Michaud, Onesime E., St. Louis, Mo. Roller-bearing. No. 997,573; July 11; Sp. p. 2020; Gaz. vol. 168; p. 361.
Michel, Amedee J., and J. M. Jones, assignors to Security Envelope Fastener Company, St. Louis, Mo. Staple-setting tool. No. 1,005,269; Oct. 10; Sp. p. 1517; Gaz. vol. 171; p. 275.
Michel, Anton, Vienna, assignor of one-half to C. Schomber & Söhne, Vienna-Atzgersdorf, Austria-Hungary. Weighing-machine. No. 997,203; July 4; Sp. p. 1270; Gaz. vol. 168; p. 207.
Michel, August H., Kenney, Ill. Disk harrow. No. 997,312; July 11; Sp. p. 1514; Gaz. vol. 168; p. 275.
Michel, Samuel H., Tipton, Ind. Funnel. No. 986,301; Mar. 7; Sp. p. 1127; Gaz. vol. 164; p. 182.
Michelin, André J., Paris, France. Pneumatic-tire cover. No. 997,687; July 11; Sp. p. 2270; Gaz. vol. 168; p. 402.
Michelsen, Hans, Minneapolis, Minn. Presser-foot for sole-stitching mechanisms. No. 989,511; Apr. 11; Sp. p. 2569; Gaz. vol. 165; p. 435.
Michener, John H., Jr. (See Hammond, George W., assignor.)
Michener, John H., Jr., assignor to Michener Stowage Company, New York, N. Y. Apparatus for coaling ships at sea. No. 984,692; Feb. 21; Sp. p. 3131; Gaz. vol. 163; p. 554.
Michener, John H., Jr., assignor to Michener Stowage Company, New York, N. Y. Sweep-blade for conveyers. No. 984,693; Feb. 21; Sp. p. 3134; Gaz. vol. 163; p. 555.
Michener, John H., Jr., assignor to Michener Stowage Company, New York, N. Y. Elevator. No. 1,010,297; Nov. 28; Sp. p. 5813; Gaz. vol. 172; p. 1036.
Michener Stowage Company. (See Michener, John H., Jr., assignor.)

Alphabetical list of patentees—Continued.

Michitsch, Joseph, Thomaston, Conn. Clothes-line clamp and regulator. No. 1,004,890; Oct. 3; Sp. p. 760; Gaz. vol. 171; p. 122.
Michki, Josef, and J. Toth, Terre Haute, Ind. Dirigible headlight. No. 1,004,454; Sept. 26; Sp. p. 4983; Gaz. vol. 170; p. 877.
Michon, Louis E. (See Dolbey and Michon.)
Mick, Herman, St. Cloud, Minn. Match-safe. No. 1,008,486; Nov. 14; Sp. p. 1953; Gaz. vol. 172; p. 334.
Mickaelson, Benjamin L., Lebanon, S. D. Printing-frame. No. 994,529; June 6; Sp. p. 888; Gaz. vol. 167; p. 147.
Mickelsen, Canute H., Bench, Idaho. Vehicle brake attachment. No. 1,010,941; Dec. 5; Sp. p. 1204; Gaz. vol. 173; p. 190.
Mickelsen, Malkin, Callaway, Minn. Grease-cup. No. 1,011,985; Dec. 19; Sp. p. 3569; Gaz. vol. 173; p. 624.
Mickelson, Matt, Whittenberg, Wis. Spark-arrester. No. 980,318; Jan. 3; Sp. p. 270; Gaz. vol. 162; p. 49.
Mickle, Melvin D., Limon, Colo. Pin-lifter. No. 991,449; May 2; Sp. p. 1321; Gaz. vol. 166; p. 221.
Micon, David, Chicago, Ill., assignor to A. J. Logan Company, Pittsburgh, Pa. Box-spring. No. 1,011,225; Dec. 12; Sp. p. 1861; Gaz. vol. 173; p. 322.
Middendorf, Henry. (See Bellmann and Middendorf.)
Middleton, Edward, and C. Porter, Chicago, Ill. Corner-bead holder. No. 1,009,983; Nov. 28; Sp. p. 5158; Gaz. vol. 172; p. 928.
Middleton, Richard. (See Carpenter and Middleton.)
Midgley, Albert H., Forest Gate, and C. A. Vandervell, Acton Vale, England. Electromagnetic power-velocity-ratio device, particularly applicable for driving automobiles. No. 993,611; May 30; Sp. p. 5971; Gaz. vol. 166; p. 1087.
Midland Publishing Company. (See Reifsnider and Goodwin, assignors.)
Midson, George W., Nundah, near Brisbane, Queensland, Australia. Bottle for holding aerated drinks and other liquids. No. 1,000,281; Aug. 8; Sp. p. 2258; Gaz. vol. 169; p. 400.
Miedel, Clarence, Short Creek, W. Va. Heater for brooders. No. 995,887; June 20; Sp. p. 3930; Gaz. vol. 167; p. 681.
Mieg, Walter. (See Thomaschewski, Raeder, Mieg, and Fischer.) (Reissue.)
Mieg, Walter, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Olive-gray vat dye. No. 996,109; June 27; Sp. p. 4379; Gaz. vol. 167; p. 793.
Mieher, Charles. (See Phares, Mieher, and Seyfrit.)
Mieher, Victor C., Carlinville, Ill. Door-latch. No. 985,617; Feb. 28; Sp. p. 5128; Gaz. vol. 163; p. 907.
Miehle, Anna M. (See Caps and Miehle, assignors.)
Miehle Printing Press and Manufacturing Company. (See Droitcour, Michael A., assignor.)
Miehle Printing Press and Manufacturing Company. (See Henderson, Carl, assignor.) (Reissue.)
Miehle Printing Press & Manufacturing Company. (See Miehle, Robert, assignor.)
Miehle Printing Press and Manufacturing Company, The. (See Pletz, Charles A., assignor.)
Miehle Printing Press and Manufacturing Company. (See Upham, Burt F., assignor.)
Miehle, Robert. (See Born, Walter F., assignor.)
Miehle, Robert, assignor of one-half to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Cylinder-tripping mechanism for printing-presses. No. 985,918; Mar. 7; Sp. p. 342; Gaz. vol. 164; p. 55.
Miehle, Robert, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Air-cushion for printing-presses. No. 989,384; Apr. 11; Sp. p. 2315; Gaz. vol. 165; p. 391.
Miehle, Robert, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing-press. No. 989,385; Apr. 11; Sp. p. 2318; Gaz. vol. 165; p. 392.
Miehle, Robert, assignor of one-half to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism for printing-presses and other machines. No. 991,002; May 2; Sp. p. 368; Gaz. vol. 166; p. 63.
Miehle, Robert F., Jr. (See Caps and Miehle.)
Miele, Frank, New York, N. Y. Illusion device. No. 999,512; Aug. 1; Sp. p. 631; Gaz. vol. 169; p. 109.
Mielke, Frederick H., Hartford, S. D. Thresher feeder attachment. No. 986,302; Mar. 7; Sp. p. 1129; Gaz. vol. 164; p. 182.
Mielke, Herman A., Raymond, Minn. Tire-protector. No. 991,003; May 2; Sp. p. 373; Gaz. vol. 166; p. 64.
Mies, Frank P. (See McGerry, Min De Lin, assignor.)
Mies, Frank P., Chicago, Ill. Heating and drying machine. No. 999,241; Aug. 1; Sp. p. 97; Gaz. vol. 169; p. 18.
Mies, Frank P., Chicago, Ill. Heating and ventilating system. No. 1,002,298; Sept. 5; Sp. p. 257; Gaz. vol. 170; p. 34.
Mies, Frank P., Chicago, and J. J. McGerry, Edgewater, Ill. Electric heater. No. 997,465; July 11; Sp. p. 1793; Gaz. vol. 168; p. 325.
Mies, Frank P., Chicago, Ill., assignor to The Plural System Ventilator Co. Heating, cooling, and ventilating system. No. 998,975; July 25; Sp. p. 5225; Gaz. vol. 168; p. 931.

Mieth, Herman, Vancouver, British Columbia, Canada. Electrically-heated vessel. No. 993,314; May 23; Sp. p. 5300; Gaz. vol. 166; p. 951.
Miggett, William L., Ann Arbor, Mich. Automobile. No. 1,005,863; Oct. 17; Sp. p. 2835; Gaz. vol. 171; p. 516.
Miggett, William L., Ann Arbor, Mich. Transmission-gearing. No. 1,010,166; Nov. 28; Sp. p. 5538; Gaz. vol. 172; p. 992.
Migliora, Xerus, West Hoboken, N. J., and F. Rolker, New York, N. Y. Tension device. No. 1,011,986; Dec. 19; Sp. p. 3571; Gaz. vol. 173; p. 624.
Mihalj, Vnoka, *et al.* (See Balázs, Johan, assignor.)
Mihályfi, Mihály, New York, N. Y. Aeroplane. No. 1,004,805; Oct. 3; Sp. p. 554; Gaz. vol. 171; p. 91.
Mihok, Emery W., Hammond, Ind. Street and station indicator. No. 994,530; June 6; Sp. p. 889; Gaz. vol. 167; p. 147.
Mijnssen, Carl, Wilmersdorf, Germany. Acetyl-cellulose sheet. No. 1,005,454; Oct. 10; Sp. p. 1927; Gaz. vol. 171; p. 340.
Mikaelson, Carl W., Chicago, Ill. Combined ice-tongs and weighing device. No. 983,635; Feb. 7; Sp. p. 810; Gaz. vol. 163; p. 129.
Mikalson, Arthur V. (See Pepper and Mikalson.)
Mikimoto, Kokichi, Tokyo, Japan. Treating oysters and other mollusks. No. 988,889; Apr. 4; Sp. p. 1259; Gaz. vol. 165; p. 201.
Mikool, Saleem A., Fall River, Mass. Window-cleaning machine. No. 996,872; July 4; Sp. p. 565; Gaz. vol. 168; p. 93.
Mikorey, Hans, Schöneberg, near Berlin, assignor to Minimax Consolidated Limited, Berlin, Germany. Paint or color disperser with more than one air-nozzle. No. 999,330; Aug. 1; Sp. p. 264; Gaz. vol. 169; p. 48.
Mikulka, Franz. (See Skalicky and Mikulka.)
Milam, John W., Frankfort, Ky. Take-up for flexible suspensories. No. 980,319; Jan. 3; Sp. p. 272; Gaz. vol. 162; p. 50.
Milano, Silvestro, New York, N. Y. Heel for footwear. No. 995,703; June 20; Sp. p. 3503; Gaz. vol. 167; p. 618.
Milburn, Joseph, San Francisco, Cal. Pump. No. 999,832; Aug. 8; Sp. p. 1257; Gaz. vol. 169; p. 246.
Milburn, Joseph, Havelock North, New Zealand. Pump. No. 1,005,270; Oct. 10; Sp. p. 1520; Gaz. vol. 171; p. 275.
Milde, Gottlieb P., Selby, S. D. Electric program-clock. No. 1,008,848; Nov. 14; Sp. p. 2734; Gaz. vol. 172; p. 460.
Miles, Charles E., *et al.* (See Martin, Van Buren, assignor.)
Miles, Don D., Jr., Aurora, Ill. Device for discharging and receiving articles from moving vehicles. No. 984,015; Feb. 14; Sp. p. 1666; Gaz. vol. 163; p. 288.
Miles, Emanuel B., Wyomissing, Pa. Non-refillable bottle. No. 1,005,996; Oct. 17; Sp. p. 3130; Gaz. vol. 171; p. 562.
Miles, Stephen S., *et al.* (See Erwin, James L., assignor.)
Miles, William C., Hopkins, Mich. Door-opener. No. 1,005,054; Oct. 3; Sp. p. 1052; Gaz. vol. 171; p. 176.
Miles, Willis C., Jersey City, N. J. Oblique folding mirror. No. 1,005,731; Oct. 10; Sp. p. 2541; Gaz. vol. 171; p. 437.
Milgrom, Charles, Philadelphia, Pa. Garbage-receptacle. No. 988,584; Apr. 4; Sp. p. 642; Gaz. vol. 165; p. 102.
Milhado, Edward W., Mineral, Va. Vegetable scraper or peeler. No. 990,449; Apr. 25; Sp. p. 4681; Gaz. vol. 165; p. 823.
Milholland, George B. (See Milholland, Joseph C., assignor.)
Milholland, Joseph C., deceased; S. F. Milholland, Oklahoma, Okla., administratrix, assignor of one-third to G. B. Milholland, Oronogo, Mo. Saw-set. No. 980,877; Jan. 3; Sp. p. 1498; Gaz. vol. 162; p. 240.
Milholland, Sarah F., administratrix. (See Milholland, Joseph C.)
Mill and Smelter Engineering Company. (See Van Saun, Peter E., assignor.)
Millar, Charles W. (See Horrocks and Millar.)
Millar, Hugh G., New York, N. Y. Producing carbonated beverages. No. 1,006,773; Oct. 24; Sp. p. 4869; Gaz. vol. 171; p. 865.
Millard, Robley C., Atlanta, Ga. Fuse-holder. No. 996,273; June 27; Sp. p. 4781; Gaz. vol. 167; p. 848.
Mille, Antoine M., Le Havre, France. Apparatus for lubrication of steam-engines. No. 992,229; May 16; Sp. p. 2985; Gaz. vol. 166; p. 550.
Millea, Francis J., *et al.* (See Stannard, John E., assignor.)
Millea, Francis J., Springfield, Mass., assignor of one-half to himself and one-fourth J. E. Stannard and one-fourth to G. W. D. Upton. Spring-wheel. No. 993,092; May 23; Sp. p. 4853; Gaz. vol. 166; p. 881.
Millea, Thomas D., assignor to The Universal Tool Company, Springfield, Mass. Coupling for float-valves. No. 1,009,031; Nov. 14; Sp. p. 3127; Gaz. vol. 172; p. 520.
Millea, Thomas D., and M. J. Carroll, Springfield, Mass. Liquid-gage. No. 980,320; Jan. 3; Sp. p. 273; Gaz. vol. 162; p. 50.
Miller, A. R. (See Keaton and Peary, assignors.)
Miller, A. W., *et al.* (See Davis, Theodore, assignor.)
Miller, A. W., *et al.* (See Sondley, William T., assignor.)
Miller, Albert H., *et al.* (See McCullough, Samuel A., assignor.)

Miller, Aldis J. (See Chenoweth and Miller.)
Miller, Alexander S. (See Kyle, Edward J., assignor.)
Miller, Alfred J. (See Sisson, Thomas F., assignor.)
Miller, Alfred P., Chicago, Ill. Hose and gasket. No. 994,861; June 13; Sp. p. 1688; Gaz. vol. 167; p. 302.
Miller, Alfred X., Marinette, Wis. Log-chain. No. 994,180; June 6; Sp. p. 159; Gaz. vol. 167; p. 28.
Miller, Allen A. (See Dils, Logan A., assignor.)
Miller, Andrew E., assignor to S. Himmel, Baltimore, Md. Display-rack. No. 991,164; May 2; Sp. p. 718; Gaz. vol. 166; p. 122.
Miller, Andrew E., assignor to S. Himmel, Baltimore, Md. Display-rack. No. 993,186; May 23; Sp. p. 5046; Gaz. vol. 166; p. 911.
Miller, Andrew E., assignor to S. Himmel, Baltimore, Md. Supporting-guide. No. 1,005,055; Oct. 3; Sp. p. 1053; Gaz. vol. 171; p. 176.
Miller, Andrew E., assignor to National Compositype Company, Baltimore, Md. Machine for casting type. No. 999,513; Aug. 1; Sp. p. 632; Gaz. vol. 169; p. 109.
Miller, Arthur K., Peeksville, N. Y. Lamp. No. 992,792; May 23; Sp. p. 4194; Gaz. vol. 166; p. 775.
Miller, Arthur R., and H. E. Ball, Paw Paw, Mich. Bait. No. 981,454; Jan. 10; Sp. p. 2926; Gaz. vol. 162; p. 473.
Miller, Athol M. (See Dunn, William A., assignor.)
Miller Automatic Safety Gas Valve Co. (See Miller, Cosby D., assignor.)
Miller, Benjamin F., Dixon, Ill. Protecting device for bank-cashiers. No. 1,000,747; Aug. 15; Sp. p. 3306; Gaz. vol. 169; p. 597.
Miller, Bernard, *et al.* (See Laski, Antony, assignor.)
Miller, Carl, *et al.* (See Bair, George R., assignor.)
Miller, Carl H., Cleveland, Ohio. Valve mechanism for gas. No. 1,010,665; Dec. 5; Sp. p. 582; Gaz. vol. 173; p. 93.
Miller, Caspar W., Wallingford, Pa. Packing for valves. No. 985,618; Feb. 28; Sp. p. 5129; Gaz. vol. 163; p. 907.
Miller, Charles A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock for safes and vaults. No. 991,629; May 9; Sp. p. 1720; Gaz. vol. 166; p. 316.
Miller, Charles A., assignor of one-half to J. J. Malloy, Connellsville, Pa. Mine-jack. No. 1,009,545; Nov. 21; Sp. p. 4288; Gaz. vol. 172; p. 738.
Miller, Charles F., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Gas-producer. No. 980,660; Jan. 3; Sp. p. 1058; Gaz. vol. 162; p. 167.
Miller, Charles H., and W. A. Bunnell, Decatur, Tex. Water-tank. No. 1,000,619; Aug. 15; Sp. p. 3044; Gaz. vol. 169; p. 553.
Miller, Charles J., Minneapolis, Minn. Package-carrier. No. 981,783; Jan. 17; Sp. p. 3574; Gaz. vol. 162; p. 607.
Miller, Charles L., Lynn, assignor to A. O. Vestine, Boston, Mass. Composition for waterproofing and preserving leather. No. 993,315; May 23; Sp. p. 5302; Gaz. vol. 166; p. 952.
Miller, Charles M., assignor, by mesne assignments, to Tyrone Finance Company, Tyrone, Pa. Coaling device for moving trains. No. 986,484; Mar. 14; Sp. p. 1549; Gaz. vol. 164; p. 277.
Miller, Charles O., Arena, assignor of one-third to C. E. Hale, Union Grove, N. Y. Photographic-printing device. No. 1,004,670; Oct. 3; Sp. p. 254; Gaz. vol. 171; p. 44.
Miller, Charlotte L., *et al.*, administrators. (See Miller, Fredrick W.)
Miller, Christ. (See Thomas, Victor W., assignor.)
Miller, Constantine G., Chicago, Ill., assignor to The Meaker Company. Electroplating-machine. No. 986,303; Mar. 7; Sp. p. 1131; Gaz. vol. 164; p. 183.
Miller, Constantine G., Chicago, Ill., assignor to The Meaker Company. Electromagnetic grappling-tool. No. 999,833; Aug. 8; Sp. p. 1258; Gaz. vol. 169; p. 246.
Miller, Cosby D., assignor to Miller Automatic Safety Gas Valve Co., St. Joseph, Mo. Automatic shut-off valve and fire-alarm combined. No. 996,110; June 27; Sp. p. 4379; Gaz. vol. 167; p. 793.
Miller, D D, Canton, Ohio. Grapple hay-fork. No. 991,873; May 9; Sp. p. 2226; Gaz. vol. 166; p. 398.
Miller, Donald J. G., Bootle, England. Nailing and similar fastening machine. No. 1,008,608; Nov. 14; Sp. p. 2222; Gaz. vol. 172; p. 379.
Miller, Du Brul & Peters Manufacturing Company, The. (See Rosewarne, Richard E., assignor.)
Miller, Du Brul & Peters Mfg. Co., The. (See Broussaud, Edouard, assignor.)
Miller, E. T. (See Miller, Ray S., assignor.)
Miller, Edward F., assignor to United States Life Saving Equipment Company, Boston, Mass. Life-saving device. No. 1,002,424; Sept. 5; Sp. p. 562; Gaz. vol. 170; p. 80.
Miller, Edward F., assignor of one-half to A. H. McClafferty, Pittsburgh, Pa. Rail-joint. No. 1,008,179; Nov. 7; Sp. p. 1126; Gaz. vol. 172; p. 186.
Miller, Edward W., Merrick, N. Y. Automatic life-preserver. No. 995,888; June 20; Sp. p. 3932; Gaz. vol. 167; p. 682.
Miller, Enoch S., New Westminster, British Columbia, Canada. Street-car fender. No. 997,077; July 4; Sp. p. 1025; Gaz. vol. 168; p. 164.
Miller, Erle W. (See Purdy and Miller.)
Miller, Eseck C., Newark, N. J., assignor to Imperial Stopper Company. Bottle-capping machine. No. 982,521; Jan. 24; Sp. p. 5186; Gaz. vol. 162; p. 894.
Miller, Frank M., and A. F. Steyer, Pontiac, Mich. Tire-rim. No. 988,890; Apr. 4; Sp. p. 1260; Gaz. vol. 165; p. 201.
Miller, Frank P., assignor to McCrosky Reamer Company, Meadville, Pa. Yielding tapping attachment. No. 991,630; May 9; Sp. p. 1724; Gaz. vol. 166; p. 317.
Miller, Frank S., Indianapolis, Ind. Air-lift displacement-pump. No. 987,679; Mar. 21; Sp. p. 4051; Gaz. vol. 164; p. 717.
Miller, Frank W., Chicago, Ill. Boiler washout and refilling system. No. 1,001,293; Aug. 22; Sp. p. 4496; Gaz. vol. 169; p. 816.
Miller, Frank W., assignor of one-half to C. D. Bauers, Chicago, Ill. Boiler washing and filling system. No. 997,504; July 11; Sp. p. 1872; Gaz. vol. 168; p. 337.
Miller, Franklin B., Jr., assignor to J. W. Hyde, Springfield, Mass. Fur-sewing machine. No. 988,278; Mar. 28; Sp. p. 5347; Gaz. vol. 164; p. 946.
Miller, Franklin C., Easton, Pa. Automobile controller-lever lock. No. 999,462; Aug. 1; Sp. p. 526; Gaz. vol. 169; p. 93.
Miller, Frederick A., assignor of one-half to W. L. Hall, Troy, N. Y. Machine for cutting blanks. No. 998,713; July 25; Sp. p. 4598; Gaz. vol. 168; p. 838.
Miller, Fredrick W., deceased; B. M. Pettingill and C. L. Miller, Caledonia, N. Y., administrators. Agricultural implement. No. 980,428; Jan. 3; Sp. p. 513; Gaz. vol. 162; p. 88.
Miller, George A. and L. E., St. Louis, Mo. Lightning-rod brace. No. 1,003,285; Sept. 12; Sp. p. 2418; Gaz. vol. 170; p. 416.
Miller, George B. (See Laut, George, assignor.)
Miller, George C., Fitchburg, assignor to The Leominster Machine Supply Company, Leominster, Mass. Boiler-feeder. No. 985,050; Feb. 21; Sp. p. 3838; Gaz. vol. 163; p. 678.
Miller, George D. (See Douthat, Rudenz S., assignor.)
Miller, George H., Detroit, Mich. Game apparatus. No. 993,392; May 30; Sp. p. 5491; Gaz. vol. 166; p. 1011.
Miller, George H., assignor of one-half to E. M. Adams, Reading, Pa. Car-fender. No. 1,001,877; Aug. 29; Sp. p. 5735; Gaz. vol. 169; p. 1047.
Miller, George M. (See Slaymaker and Miller.)
Miller, George M., Lancaster, Pa., assignor to The Slaymaker Lock Manufacturing Corporation. Padlock. No. 981,784; Jan. 17; Sp. p. 3575; Gaz. vol. 162; p. 607.
Miller, George W. (See Jennings, Oscar S., assignor.)
Miller, George W., Philadelphia, Pa. Compressor for refrigerating apparatus. No. 1,011,226; Dec. 12; Sp. p. 1863; Gaz. vol. 173; p. 322.
Miller, Gustave A., Wichita, Kans. Color-changing and flash-light sign. No. 1,004,671; Oct. 3; Sp. p. 256; Gaz. vol. 171; p. 45.
Miller, H. Stanley, Johnson City, Tenn. Automatic air-coupling. No. 993,702; May 30; Sp. p. 6192; Gaz. vol. 166; p. 1119.
Miller, Harry A., Los Angeles, Cal. Carbureter. No. 983,247; Jan. 31; Sp. p. 6713; Gaz. vol. 162; p. 1164.
Miller, Harry A., Los Angeles, Cal. Carbureter. No. 995,623; June 20; Sp. p. 3346; Gaz. vol. 167; p. 590.
Miller, Harry E., Oakland, Cal. Moisture-proofing hygroscopic powder materials. No. 987,079; Mar. 14; Sp. p. 2755; Gaz. vol. 164; p. 476.
Miller, Harry E., Ford City, Pa. Weighing-pan for coal-tipples. No. 998,918; July 25; Sp. p. 5077; Gaz. vol. 168; p. 911.
Miller, Harry G., Milwaukee, Wis., assignor to Miller Saw-Trimmer Company of Michigan, Alma, Mich. Metal saw and trimmer. No. 985,272; Feb. 28; Sp. p. 4375; Gaz. vol. 163; p. 788.
Miller, Harry G., Milwaukee, Wis., assignor to Miller Saw-Trimmer Company of Michigan, Alma, Mich. Metal sawing and trimming machine. No. 985,828; Mar. 7; Sp. p. 128; Gaz. vol. 164; p. 24.
Miller, Harry G., Milwaukee, Wis., assignor to Miller Saw-Trimmer Company of Michigan, Alma, Mich. Vise. No. 986,485; Mar. 14; Sp. p. 1551; Gaz. vol. 164; p. 277.
Miller, Harry L., assignor to Buda Company, Chicago, Ill. Railway-switch structure. No. 1,007,371; Oct. 31; Sp. p. 6195; Gaz. vol. 171; p. 1129.
Miller, Harry M., Milwaukee, Wis. Balanced relief-valve. No. 996,873; July 4; Sp. p. 567; Gaz. vol. 168; p. 93.
Miller, Harvey W., Junction City, Kans. Trap. No. 998,256; July 18; Sp. p. 3589; Gaz. vol. 168; p. 644.
Miller, Henry, Buffalo, N. Y. Umbrella. No. 995,168; June 13; Sp. p. 2341; Gaz. vol. 167; p. 405.
Miller, Henry, East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Mounting bearing-jewels. No. 1,007,372; Oct. 31; Sp. p. 6196; Gaz. vol. 171; p. 1129.
Miller, Henry C. (See Williams, John A., assignor.)
Miller, Henry C., Waterford, N. Y. Motor for talking-machines. No. 989,629; Apr. 18; Sp. p. 2871; Gaz. vol. 165; p. 507.
Miller, Henry C., Waterford, N. Y. Buttonhole-sewing machine. No. 1,006,583; Oct. 24; Sp. p. 4486; Gaz. vol. 171; p. 801.

Alphabetical list of patentees—Continued.

Miller, Henry H., Valparaiso, Ind. Hose attachment. No. 989,386; Apr. 11; Sp. p. 2321; Gaz. vol. 165; p. 392.
Miller, Henry J., New Orleans, La. Razor. No. 995,274; June 13; Sp. p. 2540; Gaz. vol. 167; p. 440.
Miller, Herman, Jr., New Britain, Conn. Nurling-tool. No. 990,450; Apr. 25; Sp. p. 4682; Gaz. vol. 165; p. 823.
Miller, Horace B., New York, N. Y. Broiler. No. 1,006,254; Oct. 17; Sp. p. 3724; Gaz. vol. 171; p. 654.
Miller, Irvin R. (See Keyes and Miller.)
Miller, Isaac C., and D. F. Hott, Cincinnati, Ohio. Water-closet. No. 986,486; Mar. 14; Sp. p. 1557; Gaz. vol. 164; p. 278.
Miller, Isaac C., and D. F. Hott, Cincinnati, Ohio. Water-closet. No. 1,001,973; Aug. 29; Sp. p. 5947; Gaz. vol. 169; p. 1078.
Miller, Isaac L., New York, N. Y., assignor to Universal Lock-Nut & Bolt Company. Nut-lock. No. 985,273; Feb. 28; Sp. p. 4377; Gaz. vol. 163; p. 789.
Miller, James L., and J. E. Hine, Montgomery, Pa. Device for operating vestibule doors and traps. No. 995,889; June 20; Sp. p. 3937; Gaz. vol. 167; p. 682.
Miller, James M., Washington, D. C. Silencer. No. 981,584; Jan. 10; Sp. p. 3169; Gaz. vol. 162; p. 517.
Miller, Jesse E., Knoxville, Tenn. Sewing-machine. No. 1,009,165; Nov. 21; Sp. p. 3403; Gaz. vol. 172; p. 602.
Miller, Jesse W., Red Wing, Minn. Horseshoe and calk therefor. No. 984,385; Feb. 14; Sp. p. 2449; Gaz. vol. 163; p. 414.
Miller, John, Buffalo, N. Y. Cap. No. 1,008,425; Nov. 14; Sp. p. 1795; Gaz. vol. 172; p. 312.
Miller, John, Freeport, Ill. Portable woodworking apparatus. No. 1,012,688; Dec. 26; Sp. p. 5065; Gaz. vol. 173; p. 909.
Miller, John A., and H. Bingaman, Harding, S. D. Scoop. No. 984,774; Feb. 21; Sp. p. 3320; Gaz. vol. 163; p. 585.
Miller, John C., Jackson, Mich. Tile-mold. No. 1,000,427; Aug. 15; Sp. p. 2592; Gaz. vol. 169; p. 483.
Miller, John E. (See Connor and Miller.)
Miller, John E., Denver, Colo. Threshing-machine. No. 990,284; Apr. 25; Sp. p. 4275; Gaz. vol. 165; p. 763.
Miller, John H. (See Gardner, James E., assignor.)
Miller, John J. A., Denver, Colo. Seal for car-doors, shipping-receptacles, &c. No. 1,001,209; Aug. 22; Sp. p. 4334; Gaz. vol. 169; p. 789.
Miller, John J. A., assignor to The Harpoon Seal Co., Denver, Colo. Seal for car-doors, shipping-receptacles, &c. No. 1,001,878; Aug. 29; Sp. p. 5736; Gaz. vol. 169; p. 1047.
Miller, John P., Cliff Mines, Pa. Bath-cabinet. No. 991,222; May 2; Sp. p. 840; Gaz. vol. 166; p. 143.
Miller, John W. (See Parmer and Miller.)
Miller-Jones, Olga J., West New Brighton, N. Y. Catamenial bandage. No. 1,003,487; Sept. 19; Sp. p. 2828; Gaz. vol. 170; p. 517.
Miller, Joseph, Ramona, Kans. Four-horse evener. No. 998,028; July 18; Sp. p. 3097; Gaz. vol. 168; p. 564.
Miller, Joseph, Jr., Waterville, Minn. Baking-oven. No. 1,005,732; Oct. 10; Sp. p. 2544; Gaz. vol. 171; p. 437.
Miller, Joseph A. (See Spink and Miller.)
Miller, Kempster B., and W. Kaisling, Chicago, Ill. Telephone-support. No. 995,704; June 20; Sp. p. 3505; Gaz. vol. 167; p. 618.
Miller, Lewis A., Jerseyville, Ill. Game apparatus. No. 995,890; June 20; Sp. p. 3936; Gaz. vol. 167; p. 682.
Miller, Linneus C., Cincinnati, Iowa. Spirit-level. No. 981,211; Jan. 10; Sp. p. 2350; Gaz. vol. 162; p. 388.
Miller Lock Co. (See Cosgrove, Edwin H., assignor.)
Miller Lock Co. (See Dowe, Arthur W., assignor.)
Miller Lock Co. (See Soley, Frank, assignor.)
Miller, Louis E. (See Miller, George A. and L. E.)
Miller Manufacturing Company. (See Crecelius, Louis J., assignor.)
Miller, Marvin, Columbus, Ohio. Convertible screen-door. No. 991,527; May 9; Sp. p. 1494; Gaz. vol. 166; p. 279.
Miller, Merton J., Los Angeles, Cal. Treating box-shooks. No. 982,973; Jan. 31; Sp. p. 6136; Gaz. vol. 162; p. 1072.
Miller, Nellie M., Washington, D. C. Street-sweeper. No. 1,003,937; Sept. 19; Sp. p. 3829; Gaz. vol. 170; p. 672.
Miller, Nicholas C., Dodgeville, Wis. Apparatus for unloading hay and other material. No. 1,003,286; Sept. 12; Sp. p. 2420; Gaz. vol. 170; p. 416.
Miller Non-Corrosive Metal Company. (See Wadsworth, Frank L. O., assignor.)
Miller, Oram E., assignor of forty-nine one-hundredths to W. E. Rourke, Philadelphia, Pa. Lamp-wick-operating device. No. 999,121; July 25; Sp. p. 5504; Gaz. vol. 168; p. 980.
Miller, Orion S. (See Schmidt, John, assignor.)
Miller Pasteurizing Machine Company, The. (See Pfouts, Leroy S., assignor.)
Miller, Ralph, Ann Arbor, Mich. Commutator-switch. No. 1,010,666; Dec. 5; Sp. p. 584; Gaz. vol. 173; p. 93.
Miller, Ray S., assignor of one-half to E. T. Miller, Red Sulphur Springs, W. Va. Mail-bag catcher. No. 983,744; Feb. 7; Sp. p. 1037; Gaz. vol. 163; p. 166.
Miller, Richard, Appleton, Wis. Car-moving device. No. 1,006,255; Oct. 17; Sp. p. 3726; Gaz. vol. 171; p. 654.
Miller, Richard D. (See Wienss and Miller.)
Miller, Robert E., Pittsburgh, Pa. Aeroplane. No. 1,006,969; Oct. 24; Sp. p. 5310; Gaz. vol. 171; p. 933.
Miller, Robert I., Sandusky, Ohio, assignor of sixteen and one-third one-hundredths to W. F. Thomas, sixteen and one-third one-hundredths to W. J. Duffy, McMechen, and sixteen and one-third one-hundredths to M. J. Malooley, Wheeling, W. Va. Rotary steam-engine. No. 986,932; Mar. 14; Sp. p. 2485; Gaz. vol. 164; p. 430.
Miller, Royal R., Pueblo, Colo. Adjustable invalid-cot. No. 982,289; Jan. 24; Sp. p. 4694; Gaz. vol. 162; p. 811.
Miller, Royal R., assignor of one-half to W. C. Darby, Pueblo, Colo. Electromechanical switching device. No. 1,007,886; Nov. 7; Sp. p. 544; Gaz. vol. 172; p. 83.
Miller, Rudolph A., assignor to J. J. Heekin, C. Lewis, and A. E. Heekin, Cincinnati, Ohio. Making patterns for triple signs. No. 990,490; Apr. 25; Sp. p. 4786; Gaz. vol. 165; p. 837.
Miller, Sam, Georgetown, Tex. Ditching-machine. No. 989,861; Apr. 18; Sp. p. 3366; Gaz. vol. 165; p. 587.
Miller, Samuel C., *et al.* (See Gourley, William R., assignor.)
Miller, Samuel M. D., assignor of one-fourth to C. E. Pellow, Detroit, Mich. Centrifugal pump. No. 1,012,265; Dec. 19; Sp. p. 4200; Gaz. vol. 173; p. 721.
Miller Saw-Trimmer Company of Michigan. (See Miller, Harry G., assignor.)
Miller, Silas A., assignor of one-fourth to J. P. Whedon, Chicago, Ill. Tying and tufting machine. No. 986,019; Mar. 7; Sp. p. 568; Gaz. vol. 164; p. 91.
Miller, Solomon. (See Carter and Miller.)
Miller, Theodore H., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Shock-absorbing pulley. No. 981,869; Jan. 17; Sp. p. 3771; Gaz. vol. 162; p. 637.
Miller, Thomas, Springboro, Ohio. Oil-can rack. No. 995,275; June 13; Sp. p. 2540; Gaz. vol. 167; p. 440.
Miller, Thomas C. (See Smyth, David M., assignor.)
Miller, Thomas F., assignor of one-eighth to W. G. Miller, St. John, New Brunswick, Canada. Electric-lamp fixture. No. 985,432; Feb. 28; Sp. p. 4731; Gaz. vol. 163; p. 841.
Miller, Thomas S., South Orange, N. J. Cableway. No. 982,737; Jan. 24; Sp. p. 5613; Gaz. vol. 162; p. 964.
Miller, Thomas S., South Orange, N. J. Cableway. No. 984,486; Feb. 14; Sp. p. 2641; Gaz. vol. 163; p. 446.
Miller, Thomas S., South Orange, N. J. Hoisting and conveying apparatus. No. 1,000,537; Aug. 15; Sp. p. 2329; Gaz. vol. 169; p. 521.
Miller, Thomas S., Orange, N. J. Cableway. No. 1,001,597; Aug. 22; Sp. p. 5114; Gaz. vol. 169; p. 919.
Miller, Thomas S., South Orange, N. J. Sea-anchor. No. 1,012,890; Dec. 26; Sp. p. 5554; Gaz. vol. 173; p. 979.
Miller, Thomas S., South Orange, and J. H. Dickinson, Montclair, N. J. Support for hoisting and conveying apparatus. No. 984,230; Feb. 14; Sp. p. 2135; Gaz. vol. 163; p. 362.
Miller, Verne W., Omaha, Nebr., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,012,143; Dec. 19; Sp. p. 3935; Gaz. vol. 173; p. 680.
Miller, Veta L., Miller, Wyo. Railway cross-tie. No. 1,006,256; Oct. 17; Sp. p. 3727; Gaz. vol. 171; p. 655.
Miller, Walter G. (See Miller, Thomas F., assignor.)
Miller, Walter H. (See Porter, Stephen C., assignor.)
Miller, Walter H., Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph. No. 1,002,074; Aug. 29; Sp. p. 6140; Gaz. vol. 169; p. 1110.
Miller, Walter P., Philadelphia, Pa. Box. No. 980,814; Jan. 3; Sp. p. 1359; Gaz. vol. 162; p. 218.
Miller, William, Chicago, Ill. Combined angle-cock and pipe-clamp. No. 994,266; June 6; Sp. p. 342; Gaz. vol. 167; p. 58.
Miller, William, assignor to Thatcher Furnace Company, New York, N. Y. Furnace-casing top. No. 985,619; Feb. 28; Sp. p. 5133; Gaz. vol. 163; p. 907.
Miller, William, assignor to Amesbury Brass & Foundry Company, Amesbury, Mass. Vehicle-seat and lock therefor. No. 1,007,041; Oct. 24; Sp. p. 5459; Gaz. vol. 171; p. 956.
Miller, William A., Wylam, Ala. Rail-joint. No. 980,661; Jan. 3; Sp. p. 1060; Gaz. vol. 162; p. 168.
Miller, William A. L., San Francisco, Cal. Fishing-spoon. No. 982,974; Jan. 31; Sp. p. 6138; Gaz. vol. 162; p. 1072.
Miller, William B., Scottdale, Pa. Can-opener. No. 983,160; Jan. 31; Sp. p. 6524; Gaz. vol. 162; p. 1134.
Miller, William B., Altoona, Pa. Dental cabinet attachment. No. 1,007,590; Oct. 31; Sp. p. 6681; Gaz. vol. 171; p. 1203.
Miller, William D., Saco, Mont. Steering device for traction-engines. No. 1,009,546; Nov. 21; Sp. p. 4290; Gaz. vol. 172; p. 738.
Miller, William E., Jackson, Tenn. Automatic water-controller. No. 990,153; Apr. 18; Sp. p. 3972; Gaz. vol. 165; p. 685.
Miller, William G., South Sharon, Pa. Wire-wiping machine. No. 1,008,180; Nov. 7; Sp. p. 1127; Gaz. vol. 172; p. 186.
Miller, William G., Jr., Pittsburg, Pa. Flushing-valve. No. 981,212; Jan. 10; Sp. p. 2352; Gaz. vol. 162; p. 388.
Miller, William H., assignor of one-half to A. H. Kohls, Crawfordsville, Ind. Pipe-damper and mounting. No. 1,012,266; Dec. 19; Sp. p. 4202; Gaz. vol. 173; p. 721.

Alphabetical list of patentees—Continued.

Miller, William J., Columbus, Ohio. Glass-shearing device. No. 992,230; May 16; Sp. p. 2990; Gaz. vol. 166; p. 550.
Miller, William J., and T. N. Cass, Seminole, Tex. Wrench. No. 994,945; June 13; Sp. p. 1881; Gaz. vol. 167; p. 331.
Miller, William L., assignor to Gisholt Machine Company, Madison, Wis. Chuck. No. 1,007,132; Oct. 31; Sp. p. 5691; Gaz. vol. 171; p. 1044.
Miller, William P., New York, N. Y. Grease-gun. No. 983,636; Feb. 7; Sp. p. 812; Gaz. vol. 163; p. 130.
Miller, William R. (See Barr and Miller.)
Miller, William R. (See Weaver and Miller.)
Miller, William R., Hamilton, Ontario, Canada, assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 1,000,032; Aug. 8; Sp. p. 1681; Gaz. vol. 169; p. 315.
Miller, William S., Sutherland, Tenn. Steam-operated dog for sawmill-carriages. No. 999,834; Aug. 8; Sp. p. 1260; Gaz. vol. 169; p. 246.
Miller, Zantzinger M., assignor to Premier Relay Company, Pittsburg, Pa. Telegraph-relay. No. 989,792; Apr. 18; Sp. p. 3227; Gaz. vol. 165; p. 564.
Millerkee, William. (See Baldwin and Millerkee.)
Millers Falls Co. (See Stebbins, William G., assignor.)
Millers Falls Company. (See Leland, Herbert J., assignor.)
Millers Falls Company. (See Leland, John A., assignor.)
Millers Falls Company. (See Rogers, George E., assignor.)
Millett, James H., Foxburg, Pa. Clothes-line reel. No. 999,580; Aug. 1; Sp. p. 765; Gaz. vol. 169; p. 133.
Millhouse, Charles L., *et al.* (See Milne, James W., assignor.)
Milligan, Archibald, Ogden, Utah. Automatic retaining-valve for air-brake systems. No. 1,008,353; Nov. 14; Sp. p. 1575; Gaz. vol. 172; p. 286.
Milligan, Hattie F., Cambridge, Mass. Breast-evacuator. No. 986,738; Mar. 14; Sp. p. 2078; Gaz. vol. 164; p. 364.
Milligan, James, A. M. and J. T. Morton, Little Rock, Ark. Automatic train-pipe coupling. No. 933,703; May 30; Sp. p. 6194; Gaz. vol. 166; p. 1120.
Milligan, John W. (See Kieren, Joseph, assignor.)
Milligan, Joseph F., Cheyenne, Wyo. Syringe. No. 984,148; Feb. 14; Sp. p. 1930; Gaz. vol. 163; p. 332.
Milligan, William F. (See Suman and Reichard, assignors.)
Milliken, Humphreys, New York, N. Y. Rail-bond. No. 1,009,166; Nov. 21; Sp. p. 3408; Gaz. vol. 172; p. 602.
Milliken, James R. (See Crawford and Milliken.)
Milliman, Leon W. (See Benham and Milliman.)
Millington, David. (See Munthe and Millington.)
Millington, David, and C. Munthe, Friedeneau, near Berlin, Germany. Apparatus for slitting screws. No. 988,802; Apr. 4; Sp. p. 1097; Gaz. vol. 165; p. 175.
Millington, David, and C. Munthe, Friedenau, near Berlin, Germany. Clamping mechanism for multiple-spindle lathes. No. 998,371; July 18; Sp. p. 3876; Gaz. vol. 168; p. 688.
Millington, David, and C. Munthe, Friedenau, near Berlin, Germany. Mechanism for actuating the tool-slides of turret-lathes. No. 1,005,652; Oct. 10; Sp. p. 2393; Gaz. vol. 171; p. 410.
Millis, Henry L. (See Trescott, Charles B., assignor.)
Millner, Wallace B., and J. M. Cobb, Reidsville, N. C. Wrench. No. 1,005,056; Oct. 3; Sp. p. 1055; Gaz. vol. 171; p. 177.
Mills, Anson C., assignor to Jackson Fence Company, Jackson, Mich. Wire-feeder. No. 986,020; Mar. 7; Sp. p. 571; Gaz. vol. 164; p. 91.
Mills, Arba K. (See Mills, Zelmond A. and A. K.)
Mills, Bert L., Hastings, Nebr. Cistern. No. 986,402; Mar. 7; Sp. p. 1361; Gaz. vol. 164; p. 219.
Mills, Charles, Christchurch, New Zealand. Apparatus for preventing flies from settling. No. 1,012,689; Dec. 26; Sp. p. 5067; Gaz. vol. 173; p. 909.
Mills, Charles, Newton Upper Falls, Mass., assignor to W. C. Swift, Fitzwilliam, N. H. Molding-machine. No. 1,000,103; Aug. 8; Sp. p. 1878; Gaz. vol. 169; p. 340.
Mills, Edgar C. (See Lester and Mills.)
Mills, Edward N., Oakland, assignor of one-half to C. E. Hailstone, Los Angeles, Cal. Means for transporting oil. No. 1,007,788; Nov. 7; Sp. p. 315; Gaz. vol. 172; p. 49.
Mills, Edward N., San Francisco, assignor of one-fourth to F. S. Cook, Brentwood, Cal. Apparatus for transporting oil. No. 1,008,980; Nov. 14; Sp. p. 3010; Gaz. vol. 172; p. 502.
Mills, Emory S. (See McLaughlin, Mills, and Bannister.)
Mills, Frank W., assignor of one-half to H. S. Mills, Chicago, Ill. Pneumatic vehicle-spring. No. 991,165; May 2; Sp. p. 720; Gaz. vol. 166; p. 122.
Mills, Frederick A. (See Schweinler, Henry R., assignor.)
Mills, Frederick A., New York, N. Y. Pressing-irons. No. 999,581; Aug. 1; Sp. p. 767; Gaz. vol. 169; p. 133.
Mills, George R., Hudson, Mich. Baling-press. No. 1,005,271; Oct. 10; Sp. p. 1521; Gaz. vol. 171; p. 275.
Mills, H. S. (See Mills, Frank W., assignor.)
Mills, Herbert E., South Croydon, England. Oil-nozzle of spray-carbureters. No. 995,981; June 20; Sp. p. 4106; Gaz. vol. 167; p. 714.
Mills, Herbert S., Chicago, Ill. Coin-released lock. No. 995,023; June 13; Sp. p. 2041; Gaz. vol. 167; p. 357.
Mills, Herbert S., Chicago, Ill. Vending-machine. No. 1,002,535; Sept. 5; Sp. p. 796; Gaz. vol. 170; p. 116.
Mills, James E., Chapel Hill, N. C., assignor of one-fourth to H. B. Battle, Montgomery, Ala. Apparatus for extracting oil from oleaginous material. No. 1,005,733; Oct. 10; Sp. p. 2546; Gaz. vol. 171; p. 438.
Mills, John D., Warwood, W. Va. Aerial toy. No. 1,002,171; Aug. 29; Sp. p. 6317; Gaz. vol. 169; p. 1141.
Mills, John E., Olga, Fla. Irrigating system. No. 992,231; May 16; Sp. p. 2991; Gaz. vol. 166; p. 550.
Mills, John H. (See Mills, William and J. H.)
Mills, John H. T. (See Mills, Virgil H. and J. H. T.)
Mills, John H. T. and V. H., Hubbard, Tex. Hydrocarbon-burner. No. 1,004,292; Sept. 26; Sp. p. 4646; Gaz. vol. 170; p. 822.
Mills, Joseph A. (See Whitford and Mills.)
Mills Novelty Company. (See Hassmann, Carl G., assignor.)
Mills Novelty Company. (See Sandell, Henry K., assignor.)
Mills, Robert S., St. Louis, Mo. Safety attachment for cars. No. 998,372; July 18; Sp. p. 3877; Gaz. vol. 168; p. 688.
Mills, Virgil H. (See Mills, John H. T. and V. H.)
Mills, Virgil H., Hubbard, Tex. Casting-machine. No. 989,387; Apr. 11; Sp. p. 2322; Gaz. vol. 165; p. 393.
Mills, Virgil H. and J. H. T., Hubbard City, Tex. Hydrocarbon-burner. No. 986,739; Mar. 14; Sp. p. 2080; Gaz. vol. 164; p. 364.
Mills, Virgil H. and J. H. T., Hubbard, Tex. Oil-burner. No. 997,574; July 11; Sp. p. 2024; Gaz. vol. 168; p. 361.
Mills, William, Sunderland, and J. H. Mills, Birmingham, England. Roller-skate. No. 1,002,729; Sept. 5; Sp. p. 1233; Gaz. vol. 170; p. 184.
Mills Woven Cartridge Belt Co., The. (See Jennings, Victor H., assignor.)
Mills Woven Cartridge Belt Company. (See Batchelder, Frank R., assignor.)
Mills, Zelmond A. and A. K., Almena, Kans. Sash-holder. No. 994,267; June 6; Sp. p. 343; Gaz. vol. 167; p. 59.
Millsaps Company, The. (See Millsaps, Daniel W., assignor.)
Millsaps, Daniel W., assignor to The Millsaps Company, Marion, S. C. Binder. No. 1,006,584; Oct. 24; Sp. p. 4495; Gaz. vol. 171; p. 801.
Millspaugh, Jesse F., Hollywood, Cal. Adjusting device for windows or doors. No. 984,101; Feb. 14; Sp. p. 1850; Gaz. vol. 163; p. 318.
Millspaugh, William H., Sandusky, Ohio. Suction-roll. No. 994,863; June 13; Sp. p. 1692; Gaz. vol. 167; p. 303.
Millspaugh, William H., assignor to The Sandusky Foundry & Machine Company, Sandusky, Ohio. Pipe-threading machine. No. 994,862; June 13; Sp. p. 1689; Gaz. vol. 167; p. 303.
Millspaugh, William L. (See Venners, James H., assignor.)
Millwall Rubber Company Limited. (See Gosselin, Xavier, assignor.)
Milne, James W., Brantford, Ontario, Canada, assignor of one-third to D. McHenry and one-third to C. L. Millhouse, South Bend, Ind. Power winding-machine. No. 988,585; Apr. 4; Sp. p. 644; Gaz. vol. 165; p. 103.
Milne, John, New York, N. Y. Superheater. No. 997,688; July 11; Sp. p. 2270; Gaz. vol. 168; p. 402.
Milne, Robert, Rockford, Ill. Change-speed mechanism. No. 1,012,408; Dec. 19; Sp. p. 4487; Gaz. vol. 173; p. 769.
Milne, Robert, assignor to Rockford Drilling Machine Company, Rockford, Ill. Trip mechanism for drilling-machines. No. 981,870; Jan. 17; Sp. p. 3773; Gaz. vol. 162; p. 638.
Milne, Robert, assignor to Rockford Drilling Machine Company, Rockford, Ill. Locking device for shiftable members. No. 983,745; Feb. 7; Sp. p. 1040; Gaz. vol. 163; p. 166.
Milne, Robert, assignor to Rockford Drilling Machine Company, Rockford, Ill. Feed mechanism for drill-spindles. No. 983,746; Feb. 7; Sp. p. 1043; Gaz. vol. 163; p. 167.
Milne, Robert, assignor to Rockford Drilling Machine Co., Rockford, Ill. Change-speed mechanism. No. 1,008,181; Nov. 7; Sp. p. 1131; Gaz. vol. 172; p. 186.
Milne, Robert, assignor to Rockford Drilling Machine Company, Rockford, Ill. Gearing for drill-presses. No. 1,008,182; Nov. 7; Sp. p. 1135; Gaz. vol. 172; p. 187.
Milne, Russell A., and F. H. Bedford, Detroit, Mich. Valve. No. 994,268; June 6; Sp. p. 344; Gaz. vol. 167; p. 59.
Milner, Henry J., Chicopee, assignor to J. Hall, Jr., West Springfield, Mass. Drinking-fountain. No. 985,534; Feb. 28; Sp. p. 4962; Gaz. vol. 163; p. 878.
Milner, Henry J., assignor of one-third to T. A. MacDonald and one-third to M. J. Leahy, Chicopee, Mass. Drinking-fountain. No. 998,585; July 18; Sp. p. 4306; Gaz. vol. 168; p. 761.
Milner, Jay S. (See Gilson, Samuel H., assignor.)
Milner, John F., Alamogordo, N. Mex. Moistener. No. 1,000,428; Aug. 15; Sp. p. 2594; Gaz. vol. 169; p. 483.
Milner, William L., Cincinnati, Ohio. Valve-grinding apparatus. No. 1,005,864; Oct. 17; Sp. p. 2838; Gaz. vol. 171; p. 516.
Milnes, Edward. (See Fitton and Milnes.)

Alphabetical list of patentees—Continued.

Milson, John R., Watertown, assignor, by mesne assignments, of one-half to A. Lawson, Winchester, Mass. Wool-cleaning machine. No. 1,008,426; Nov. 14; Sp. p. 1796; Gaz. vol. 172; p. 312.
Milstead, Carl, Chatsworth, Ill. Combined mower and tedder. No. 982,686; Jan. 24; Sp. p. 5496; Gaz. vol. 162; p. 948.
Milsted, Stephen E. (See Lockhart, Samuel R., assignor.)
Milton Bradley Company. (See Bugbee, Glenn W., assignor.)
Milton Bradley Company, The. (See Sanford, Harry E., assignor.)
Milton, Charles A., Kokomo, Ind. Incubator. No. 1,009,086; Nov. 21; Sp. p. 3256; Gaz. vol. 172; p. 576.
Milton Chemical Company. (See Burns, Peter S., assignor.)
Miltz, Oscar G., Big Sandy, Mont. Churn. No. 982,156; Jan. 17; Sp. p. 4391; Gaz. vol. 162; p. 735.
Milwaukee Casket Company. (See Swartz, Warren E., assignor.)
Milwaukee Oil Pump & Tank Company. (See Bienenstok, Edgar A., assignor.)
Milwaukee Paper Box Company. (See Carlson, Walter C., assignor.)
Milwaukee Separator Company, The. (See Hartman, William C., assignor.)
Milwaukee-Waukesha Brewing Company. (See Lindemann and Stock, assignors.)
Milz, Walter E. E., New York, N. Y., assignor to Phinney-Walker Key-Less Clock Company. Keyless clock. No. 1,009,773; Nov. 28; Sp. p. 4745; Gaz. vol. 172; p. 860.
Mims, William B., Panama City, assignor of one-half to J. M. Clutter, Pensacola, Fla. Rail-joint. No. 1,003,938; Sept. 19; Sp. p. 3832; Gaz. vol. 170; p. 673.
Minaker, Chapman, Syracuse, N. Y. Spring-hub for automobile-wheels. No. 1,004,455; Sept. 26; Sp. p. 4984; Gaz. vol. 170; p. 877.
Minato, Longhair I., Plano, Idaho. Beet-harvester. No. 993,704; May 30; Sp. p. 6195; Gaz. vol. 166; p. 1120.
Mine & Smelter Supply Company, The. (See Jurs, Henry F., assignor.)
Miner, Frank J., assignor, by mesne assignments, to F. J. Miner, trustee, Detroit, Mich. Explosive-engine. No. 991,631; May 9; Sp. p. 1726; Gaz. vol. 166; p. 317.
Miner, James, Ferry Point, Alberta, Canada. Rail-joint. No. 997,404; July 11; Sp. p. 1682; Gaz. vol. 168; p. 306.
Miner, James H. (See Carlton and Miner.)
Miner, James H., Lumberton, Miss. Combined gage and straight-edge. No. 982,624; Jan. 24; Sp. p. 5373; Gaz. vol. 162; p. 927.
Miner, James H., Lumberton, Miss. Acetylene-gas generator. No. 1,005,865; Oct. 17; Sp. p. 2839; Gaz. vol. 171; p. 516.
Miner, John R., *et al.* (See McCullough, Samuel A., assignor.)
Miner, Robert B., assignor of one-half to D. C. Hunter, Guthrie, Okla. Cotton-chopper. No. 986,933; Mar. 14; Sp. p. 2487; Gaz. vol. 164; p. 430.
Miner, William H. (See Johnson, George A., assignor.)
Miner, William H. (See O'Connor, John F., assignor.)
Miner, William H. (See Schroeder, Herman F., assignor.)
Miner, William H., Chicago, Ill. Backing-strip for refrigerator-car-door packing. No. 992,793; May 23; Sp. p. 4198; Gaz. vol. 166; p. 775.
Minerallac Electric Company. (See Kinney, Frank F., assignor.)
Minet, Adolphe. (See Popp and Minet.)
Minges, Le Grand B., Lestershire, N. Y. Gage. No. 996,503; June 27; Sp. p. 5287; Gaz. vol. 167; p. 927.
Mingo, George, Cedar Rapids, Iowa. Concrete conveyer and distributer. No. 991,450; May 2; Sp. p. 1322; Gaz. vol. 166; p. 221.
Minich, Russell H., Allentown, Pa. Car-brake-operating mechanism. No. 996,111; June 27; Sp. p. 4384; Gaz. vol. 167; p. 794.
Minimax Consolidated Limited. (See Breslauer, Max, assignor.)
Minimax Consolidated Limited. (See Mikorey, Hans, assignor.)
Mink, Fritz, assignor to The Keystone Watch Case Company, Philadelphia, Pa. Watchcase. No. 998,792; July 25; Sp. p. 4791; Gaz. vol. 168; p. 866.
Mink, Harry M., Kenosha, Wis. Automobile door-lock. No. 985,433; Feb. 28; Sp. p. 4732; Gaz. vol. 163; p. 841.
Minnesota Manufacturers Association. (See Heimer, John, assignor.)
Minnich, Simon B., Landisville, Pa. Flying-machine. No. 1,010,443; Dec. 5; Sp. p. 77; Gaz. vol. 173; p. 16.
Minnick, Ira A., assignor to The National Dry Kiln Company, Indianapolis, Ind. Pipe-support. No. 991,736; May 9; Sp. p. 1959; Gaz. vol. 166; p. 351.
Minnick, Stewart A., and A. L. Smith, assignors to said Stewart A. Minnick, Pittsburg, Pa. Calipers. No. 1,000,835; Aug. 15; Sp. p. 3488; Gaz. vol. 169; p. 627.
Minnis, Henry M., assignor to S. Potts and C. D. Love, Wylie, Tex. Chemical fire-engine. No. 984,231; Feb. 14; Sp. p. 2137; Gaz. vol. 163; p. 362.
Minns, Walter J., New York, N. Y., assignor to Spacesaving Appliance Company. Washtub attachment. No. 990,370; Apr. 25; Sp. p. 4482; Gaz. vol. 165; p. 792.
Minns, Walter J., New York, N. Y., assignor to Spacesaving Appliance Company. Washtub attachment. No. 990,371; Apr. 25; Sp. p. 4484; Gaz. vol. 165; p. 793.
Minns, Walter J., New York, N. Y., assignor to Spacesaving Appliance Company. Washtub attachment. No. 990,372; Apr. 25; Sp. p. 4486; Gaz. vol. 165; p. 793.
Minor, Clarence R., Sandusky, assignor of one-fifth to A. E. Merkel, Cleveland, and two-fifths to E. N. Hawley, Norwalk, Ohio. Transmission mechanism. No. 1,006,867; Oct. 24; Sp. p. 5098; Gaz. vol. 171; p. 899.
Minor, Frank A. (See Minor, Irving D. and F. A.)
Minor, George A., Prairie Hill, Mo. Supporting and tipping stand. No. 996,658; July 4; Sp. p. 129; Gaz. vol. 168; p. 23.
Minor, Gustine, Green Bay, Wis. Wheelbarrow. No. 990,822; Apr. 25; Sp. p. 5508; Gaz. vol. 165; p. 949.
Minor, Irving D. and F. A., Aurelia, Iowa. Wheel. No. 1,011,987; Dec. 19; Sp. p. 3573; Gaz. vol. 173; p. 625.
Minor, Julius E., Garden City, S. D. Door-fastener. No. 991,344; May 2; Sp. p. 1111; Gaz. vol. 166; p. 185.
Minor, William, Fairport, assignor of one-third to C. Koehler, Muscatine, Iowa. Draft device. No. 993,786; May 30; Sp. p. 6367; Gaz. vol. 166; p. 1148.
Minor, William S., Northville, N. Y. Railway road-bed. No. 997,078; July 4; Sp. p. 1027; Gaz. vol. 168; p. 165.
Minor, William S., Northville, N. Y. Excelsior-machine. No. 998,793; July 25; Sp. p. 4792; Gaz. vol. 168; p. 866.
Minot, Martin. (See Mather, Elisha B., assignor.)
Minshull, Robert, assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Door-hanger and track. No. 1,010,781; Dec. 5; Sp. p. 858; Gaz. vol. 173; p. 134.
Minton, Charles M., Philomath, Oreg. Saw-handle. No. 981,100; Jan. 10; Sp. p. 2110; Gaz. vol. 162; p. 349.
Minturn, Joseph A., *et al.* (See Marley and Little, assignors.)
Mirfield, George E., Struthers, Ohio. Wire-fence fabric. No. 982,185; Jan. 17; Sp. p. 4443; Gaz. vol. 162; p. 744.
Mirocourt, Henry. (See Rosenhek, Mirocourt, and Loup.)
Misaki, Hezaemon, San Francisco, Cal. Composition of matter for polishing furniture. No. 1,009,547; Nov. 21; Sp. p. 4292; Gaz. vol. 172; p. 738.
Misensol, Ira W., and M. Boyer, Lowry, Minn. Vehicle-wheel. No. 1,009,850; Nov. 28; Sp. p. 4901; Gaz. vol. 172; p. 886.
Mishawaka Woolen Manufacturing Co. (See Timming, August C., assignor.)
Mishel, Moses, Revere, Mass. Window-washing seat. No. 1,005,057; Oct. 3; Sp. p. 1056; Gaz. vol. 171; p. 177.
Mishoe, Henry W., East Millinocket, Me. Bag-tie. No. 1,002,730; Sept. 5; Sp. p. 1235; Gaz. vol. 170; p. 184.
Miskell, Oliver L. (See Tucker and Miskell.)
Miskin, Franklin S., Rigby, Idaho. Stone-sawing machine. No. 980,878; Jan. 3; Sp. p. 1499; Gaz. vol. 162; p. 240.
Misland, Joseph A. (See Kennedy and Misland.)
Missouri Valley Bridge and Iron Company, The. (See Jones, William H., assignor.
Mitchel, Edward W., Lexington, Ky. Grinding-machine. No. 991,345; May 2; Sp. p. 1112; Gaz. vol. 166; p. 186.
Mitchel, William H., *et al.*, trustees. (See Kenevel, Jeannot W., assignor.)
Mitchell, Andrew F., Campello, Mass. Shoe-upper. No. 1,002,731; Sept. 5; Sp. p. 1236; Gaz. vol. 170; p. 184.
Mitchell, Arthur L., Portland, Me. Shock-absorber. No. 994,024; May 30; Sp. p. 6837; Gaz. vol. 166; p. 1227.
Mitchell, Charles B., Franklin, Tex. Safety device for railways. No. 1,004,806; Oct. 3; Sp. p. 556; Gaz. vol. 171; p. 91.
Mitchell, Charles E., assignor to Stanley Rule and Level Company, New Britain, Conn. Chuck-jaw. No. 1,011,227; Dec. 12; Sp. p. 1866; Gaz. vol. 173; p. 322.
Mitchell, Charles L., Philadelphia, Pa. Hat-pin guard. No. 1,001,210; Aug. 22; Sp. p. 4336; Gaz. vol. 169; p. 789.
Mitchell, Charles R., Chatswood, near Sydney, New South Wales, Australia. Milking machinery. No. 998,856; July 25; Sp. p. 4939; Gaz. vol. 168; p. 888.
Mitchell, Charles R., San Diego, Cal. Flying boat. No. 1,005,272; Oct. 10; Sp. p. 1523; Gaz. vol. 171; p. 276.
Mitchell, Charles W., Brooklyn, N. Y. Electric fuse-testing device. No. 988,891; Apr. 4; Sp. p. 1262; Gaz. vol. 165; p. 202.
Mitchell, Edward P., Conneaut, assignor to The Cleveland Gas and Electric Fixture Company, Cleveland, Ohio. Shade and reflector for electric lamps. No. 981,585; Jan. 10; Sp. p. 3172; Gaz. vol. 162; p. 517.
Mitchell, Elmore J. (See Coyle, James R., assignor.)
Mitchell, Enos, and J. H. Keeran, Osceola, Iowa. Egg-candling apparatus. No. 1,010,512; Dec. 5; Sp. p. 257; Gaz. vol. 173; p. 40;
Mitchell, Floyd, Jackson, Mich. Razor-stropping machine. No. 997,575; July 11; Sp. p. 2027; Gaz. vol. 168; p. 362.
Mitchell, Garrett V., Bayonne, N. J. Tilting dumping-scow. No. 995,624; June 20; Sp. p. 3349; Gaz. vol. 167; p. 590.
Mitchell, George, Los Angeles, Cal. Apparatus for the treatment of ores. No. 997,405; July 11; Sp. p. 1684; Gaz. vol. 168; p. 306.
Mitchell, George F., Summerville, S. C. Shrub and plant trimming machine. No. 989,388; Apr. 11; Sp. p. 2325; Gaz. vol. 165; p. 393.

Alphabetical list of patentees—Continued.

Mitchell, George P., Shenandoah, Iowa. Shoe. No. 988,011; Mar. 28; Sp. p. 4821; Gaz. vol. 164; p. 859.
Mitchell, Harrison J., assignor to The Berlin Machine Works, Beloit, Wis. Matching planer-head. No. 987,391; Mar. 21; Sp. p. 3458; Gaz. vol. 164; p. 618.
Mitchell, Harrison J., assignor to The Berlin Machine Works, Beloit, Wis. Grinding and jointing appliance for planers. No. 987,478; Mar. 21; Sp. p. 3633; Gaz. vol. 164; p. 647.
Mitchell, Harrison J., assignor to The Berlin Machine Works, Beloit, Wis. Expansion cutter-head. No. 987,479; Mar. 21; Sp. p. 3636; Gaz. vol. 164; p. 647.
Mitchell, Harrison J., assignor to The Berlin Machine Works, Beloit, Wis. Planer-knife sharpener. No. 990,373; Apr. 25; Sp. p. 4487; Gaz. vol. 165; p. 793.
Mitchell, Harrison J., assignor to The Berlin Machine Works, Beloit, Wis. Planer-head. No. 995,024; June 13; Sp. p. 2044; Gaz. vol. 167; p. 357.
Mitchell, Harry, Minneapolis, Minn. Game apparatus. No. 1,012,891; Dec. 26; Sp. p. 5556; Gaz. vol. 173; p. 980.
Mitchell, Harry F., Vincennes, Ind. Winding device. No. 999,514; Aug. 1; Sp. p. 636; Gaz. vol. 169; p. 109.
Mitchell, Henry, St. Paul, Minn. Flying-machine. No. 986,195; Mar. 7; Sp. p. 913; Gaz. vol. 164; p. 148.
Mitchell, Isaac L., Cedar Rapids, Iowa. Combined stump-puller and stump-piler. No. 997,930; July 11; Sp. p. 2853; Gaz. vol. 168; p. 487.
Mitchell, James N., Washington, D. C. Toy device. No. 990,154; Apr. 18; Sp. p. 3973; Gaz. vol. 165; p. 686.
Mitchell, James V., Martinsville, Ind. Weight registering and recording mechanism for refrigerators. No. 988,126; Mar. 28; Sp. p. 5053; Gaz. vol. 164; p. 897.
Mitchell, James V., Martinsville, Ind. Automobile-top. No. 988,204; Mar. 28; Sp. p. 5196; Gaz. vol. 164; p. 922.
Mitchell, Jay G., assignor to The North Electric Company, Cleveland, Ohio. Telephone-exchange system. No. 984,958; Feb. 21; Sp. p. 3659; Gaz. vol. 163; p. 645.
Mitchell, Joel W., and W. O. Walker, Kingston, Ontario, Canada. Apparatus for testing milk and milk products. No. 987,811; Mar. 28; Sp. p. 4334; Gaz. vol. 164; p. 789.
Mitchell, John, Ponsonby, New Zealand. Construction of buildings. No. 1,013,038; Dec. 26; Sp. p. 5886; Gaz. vol. 173; p. 1029.
Mitchell, John C., assignor of one-half to W. F. Bartels, Fort Wayne, Ind. Umbrella-supporter. No. 988,485; Apr. 4; Sp. p. 414; Gaz. vol. 165; p. 67.
Mitchell, John F. (See Mitchell, William and J. F.)
Mitchell, John J., Harrison, N. J. Fitting for vents of sewers. No. 999,053; July 25; Sp. p. 5392; Gaz. vol. 168; p. 959.
Mitchell, Joseph I., Pittsfield, Mass., assignor to General Electric Company. Treating coils. No. 1,010,444; Dec. 5; Sp. p. 80; Gaz. vol. 173; p. 16.
Mitchell, Louis E. (See Noble and Mitchell.)
Mitchell, Louis E., assignor to Morgan-Gardner Electric Company, Chicago, Ill. Driving apparatus. No. 981,101; Jan. 10; Sp. p. 2113; Gaz. vol. 162; p. 349.
Mitchell, Moorehouse, Lucknow, Ontario, Canada. Manufacturing shuttle-blocks. No. 987,392; Mar. 21; Sp. p. 3462; Gaz. vol. 164; p. 618.
Mitchell, Oliver, Boston, Mass. Combined memorandum-pad and wallet. No. 1,011,228; Dec. 12; Sp. p. 1867; Gaz. vol. 173; p. 323.
Mitchell, Oliver R., Boston, Mass. Divan or couch. No. 985,749; Feb. 28; Sp. p. 5425; Gaz. vol. 163; p. 951.
Mitchell, Robert, assignor of one-third to S. H. Knight, Detroit, Mich. Embossing-machine. No. 994,686; June 6; Sp. p. 1249; Gaz. vol. 167; p. 202.
Mitchell, Robert G., Tofield, Alberta, Canada. Brush-cutter. No. 1,001,211; Aug. 22; Sp. p. 4336; Gaz. vol. 169; p. 789.
Mitchell, Sheddy, and T. D. Love, Wilmington, N. C. Car-standard. No. 1,001,062; Aug. 22; Sp. p. 4034; Gaz. vol. 169; p. 742.
Mitchell-Tappen Company, The. (See Coffey, Barton H., assignor.)
Mitchell, Thomas J., Uniontown, and J. A. McCreary, Connellsville, Pa. Spraying mechanism for coke-ovens. No. 982,625; Jan. 24; Sp. p. 5374; Gaz. vol. 162; p. 927.
Mitchell, Thomas J., and J. A. McCreary, Uniontown, Pa. Coke screen and conveyer. No. 1,012,214; Dec. 19; Sp. p. 4098; Gaz. vol. 173; p. 703.
Mitchell, Walter S., San Francisco, Cal. Removable floor-strip. No. 982,522; Jan. 24; Sp. p. 5187; Gaz. vol. 162; p. 894.
Mitchell, Wickliff B., Bedford, Ind. Harrow. No. 981,455; Jan. 10; Sp. p. 2927; Gaz. vol. 162; p. 473.
Mitchell, Wickliff B., Bedford, Ind., assignor, by mesne assignments, to Bedford Harrow-Drag Company. Harrow-drag. (Reissue.) No. 13,340; Dec. 19; Sp. p. 4822; Gaz. vol. 173; p. 827.
Mitchell, William and J. F., Milwaukee, Wis. Carrier-track. No. 981,456; Jan. 10; Sp. p. 2928; Gaz. vol. 162; p. 474.
Mitchell, William A., and W. Walker, Sedalia, assignors to Commonwealth Steel Company, St. Louis, Mo. Emergency draft-sill. No. 1,007,227; Oct. 31; Sp. p. 5905; Gaz. vol. 171; p. 1078.
Mitchell, William M., assignor to Positive Rail Anchor Company, Louisville, Ky. Rail-anchor. No. 993,455; May 30; Sp. p. 5633; Gaz. vol. 166; p. 1031.
Mitlehner, Anton, New York, N. Y. Detachable heel. No. 980,987; Jan. 10; Sp. p. 1851; Gaz. vol. 162; p. 309.
Mittag, Ernst, Berlin, Germany. Railway-car. No. 992,025; May 9; Sp. p. 2523; Gaz. vol. 166; p. 449.
Mittasch, Alwin. (See Bosch and Mittasch.)
Mittendorf, John M., St. Louis, Mo. Traction-engine. No. 990,374; Apr. 25; Sp. p. 4490; Gaz. vol. 165; p. 794.
Mitton, David, Withington, Manchester, England. Holder for lamp-globes and the like. No. 994,181; June 6; Sp. p. 161; Gaz. vol. 167; p. 28.
Mitts, George, Alva, Okla., and R. Maddox, Great Bend, Kans., assignors to G. C. Mitts, Alva, Okla. Disk planter. No. 990,451; Apr. 25; Sp. p. 4683; Gaz. vol. 165; 823.
Mitts, George C. (See Mitts and Maddox, assignors.)
Mix, Charles H., Renovo, Pa. Knockdown barrel. No. 983,300; Feb. 7; Sp. p. 93; Gaz. vol. 163; p. 17.
Mixa, Henry, Two Rivers, Wis. Garment-hanger. No. 996,504; June 27; Sp. p. 5288; Gaz. vol. 167; p. 927.
Mixon, James F., assignor of one-third to C. E. Gates, Manatee, Fla. Saw-handle. No. 986,487; Mar. 14; Sp. p. 1559; Gaz. vol. 164; p. 278.
Miyabara, Kumazo. (See Namekawa, Miyazawa, Miyabara, and Emura.)
Miyazawa, Jishichiro. (See Namekawa, Miyazawa, Miyabara, and Emura.)
Mize, Allen J., Capitol Hill, Okla. Guard for locks. No. 1,009,548; Nov. 21; Sp. p. 4292; Gaz. vol. 172; p. 739.
Mjolkningsmaskin Aktiebolaget. (See Nilsson, Erik A., assignor.)
Mlekush, Frank, Rankin, Pa. Composition of matter. No. 991,223; May 2; Sp. p. 841; Gaz. vol. 166; p. 143.
Mlitz, August, Charlottenburg, Germany. Lubricating device. No. 1,006,257; Oct. 17; Sp. p. 3728; Gaz. vol. 171; p. 655.
Mnuskin, Nathan, San Pedro, Cal. Removable-coil bed-spring. No. 1,010,667; Dec. 5; Sp. p. 585; Gaz. vol. 173; p. 94.
Moak, William V., Schenectady, N. Y., assignor to General Electric Company. Relay. No. 996,874; July 4; Sp. p. 569; Gaz. vol. 168; p. 94.
Moberg, Charles A., New Castle, N. H. Headlight-controlling device. No. 991,346; May 2; Sp. p. 1114; Gaz. vol. 166; p. 186.
Moberg, Oscar. (See Hotchkiss and Moberg.)
Mobius, Robert M. (See Sly, George E., assignor.)
Mobius, Robert M., San Diego, Cal. Wave-power generator. No. 986,740; Mar. 14; Sp. p. 2083; Gaz. vol. 164; p. 364.
Mobius, Robert M., San Diego, Cal. Automatic wave apparatus. No. 988,012; Mar. 28; Sp. p. 4822; Gaz. vol. 164; p. 859.
Mobley, David L., Los Angeles, Cal. Aeroplane. No. 1,007,789; Nov. 7; Sp. p. 316; Gaz. vol. 172; p. 50.
Moch, Edgar J. (See Kibby, Ora B., assignor.)
Moch, Eugene W., New York, N. Y. Multiple plume. No. 1,009,918; Nov. 28; Sp. p. 5027; Gaz. vol. 172; p. 908.
Moch, Eugene W., New York, N. Y. Device for assembling fillers for compound plumes. No. 1,009,919; Nov. 28; Sp. p. 5028; Gaz. vol. 172; p. 908.
Moch, Eugene W., New York, N. Y. Plume-trimming device. No. 1,009,920; Nov. 28; Sp. p. 5029; Gaz. vol. 172; p. 908.
Moch, Eugene W., New York, N. Y. Plume-trimming device. No. 1,009,921; Nov. 28; Sp. p. 5030; Gaz. vol. 172; p. 908.
Moch, Eugene W., New York, N. Y. Apparatus for coloring plume-stems. No. 1,009,922; Nov. 28; Sp. p. 5031; Gaz. vol. 172; p. 908.
Mock, James C., *et al.* (See Everett, Edward A., assignor.)
Mockabee, William H., Washington, D. C. Folding swing. No. 1,006,670; Oct. 24; Sp. p. 4659; Gaz. vol 171; p. 330.
Model, Carl W., Feuerbach-Stuttgart, Germany. Knife-cleaning machine. No. 1,005,734; Oct. 10; Sp. p. 2550; Gaz. vol. 171; p. 438.
Model Generator Company. (See Schlieder, Augustus E., assignor.)
Model Kitchen Equipment Company. (See Blake, William F., assignor.)
Model Manufacturing Company, The. (See Johnston, Harry B., assignor.)
Moder, John A., assignor of one-half to J. F. Dupont, Laurium, Mich. Controlling means for headlights. No. 983,456; Feb. 7; Sp. p. 430; Gaz. vol. 163; p. 69.
Modern Advertising Company, The. (See Medvecky and Kauser, assignors.)
Modern Cap Manufacturing Company, The. (See Novoson, Abraham J., assignor.)
Modern Compressed Air Cleaning Co. (See Overholt, Edwin E., assignor.)
Modern Electric Appliance Company, The. (See Brodton, Edward R., assignor.)
Modern Steel Structure Company. (See Harding, Samuel B., assignor.)
Modern Steel Structural Company. (See Israel, Homer W., assignor.)

Alphabetical list of patentees—Continued.

Modern Tool Company. (See Loomis, Gilbert J., assignor.)
Moe, Aaron B., Maywood, Ill. Drinking-fountain. No. 997,313; July 11; Sp. p. 1515; Gaz. vol. 168; p. 275.
Moe, Adolf T., Christiania, Norway. Calculating-machine. No. 1,011,073; Dec. 5; Sp. p. 1466; Gaz. vol. 173; p. 233.
Moe, Simon, Harstad, Norway. Davit. No. 997,689; July 11; Sp. p. 2272; Gaz. vol. 168; p. 402.
Moe, Thorstein O., assignor to A/S De Forenede Norske Laase- & Beslagfabrikel, Christiania, Norway. Padlock. No. 988,127; Mar. 28; Sp. p. 5056; Gaz. vol. 164; p. 897.
Moebes, August, Jr., and H. T. Moore, San Francisco, Cal. Locking device. No. 1,011,637; Dec. 12; Sp. p. 2826; Gaz. vol. 173; p. 471.
Moellendorf, Charles R., Seattle, Wash. Inclosed fuse. No. 982,738; Jan. 24; Sp. p. 5615; Gaz. vol. 162; p. 964.
Moeller, Carl R. (See Thompson and Moeller.)
Moeller, Fred J., and F. J. Seyerle, Pittsburg, Pa. Trolley attachment. No. 984,286; Feb. 14; Sp. p. 2257; Gaz. vol. 163; p. 381.
Moeller, Henry, E. Kieweg, and F. Wagner, Milwaukee, Wis. Switch-valve. No. 989,175; Apr. 11; Sp. p. 1856; Gaz. vol. 165; p. 322.
Moeller, William C., Doon, Iowa. Bracket-telephone. No. 1,007,373; Oct. 31; Sp. p. 6197; Gaz. vol. 171; p. 1130.
Moeller, William J., Wyoming, assignor to The Philip Carey Manufacturing Company, Lockland, Ohio. Gas-tank absorbent filler. No. 1,011,988; Dec. 19; Sp. p. 3574; Gaz. vol. 173; p. 625.
Moen, George E., Spirit Lake, Idaho. Valve. No. 1,003,488; Sept. 19; Sp. p. 2830; Gaz. vol. 170; p. 517.
Moen, Jalmar C., Ashley, N. D. Adjustable flooring and sheathing clamp. No. 981,871; Jan. 17; Sp. p. 3775; Gaz. vol. 162; p. 638.
Moen, Selmer M., Clitherall, Minn. Skinning-tool. No. 1,006,970; Oct. 24; Sp. p. 5312; Gaz. vol. 171; p. 933.
Moench, Frederick, Lesueur Center, Minn. Peat-burner. No. 1,000,620; Aug. 15; Sp. p. 3046; Gaz. vol. 169; p. 553.
Moenus Machine Works. (See Wüst, Wilhelm A., assignor.)
Moerder, Edwin F., Philadelphia, Pa. Mouthpiece for smokers' articles. No. 995,799; June 20; Sp. p. 3739; Gaz. vol. 167; p. 651.
Moews, Paul, Detroit, Mich. Nose-guard. No. 985,434; Feb. 28; Sp. p. 4733; Gaz. vol. 163; p. 841.
Moffatt, Ansil, Indianapolis, Ind. Pigment. No. 990,155; Apr. 18; Sp. p. 3974; Gaz. vol. 165; p. 686.
Moffatt, Ansil, Indianapolis, Ind. Making pigments. No. 990,156; Apr. 18; Sp. p. 3975; Gaz. vol. 165; p. 686.
Moffett, James, and C. C. Clutch, Philadelphia, Pa. Guard-board for couch-rolls. No. 1,011,074; Dec. 5; Sp. p. 1470; Gaz. vol. 173; p. 234.
Moffitt, Eugenia A., administratrix. (See Moffitt, John R.)
Moffitt, John R., deceased, Denver, Colo; E. A. Moffitt, administratrix. Pulverizing-mill. No. 988,293; Mar. 28; Sp. p. 5379; Gaz. vol. 164; p. 951.
Moffitt, Morris R., Peck, Kans. Pencil calendar and clip. No. 985,051; Feb. 21; Sp. p. 3839; Gaz. vol. 163; p. 678.
Moffitt, Robert E., Ludlow, Ky. Valve. No. 992,375; May 16; Sp. p. 3342; Gaz. vol. 166; p. 601.
Mogan, Christopher J., Glassport, assignor to Pittsburgh Steel Products Co., Pittsburg, Pa. Reinforcement for concrete. No. 984,775; Feb. 21; Sp. p. 3321; Gaz. vol. 163; p. 585.
Mohler, Adolph. (See Thelen, Frank A., assignor.)
Mohler, Chester C., Dayton, Ohio. Signal indicating device for drip-pans. No. 1,003,636; Sept. 19; Sp. p. 3162; Gaz. vol. 170; p. 570.
Mohn, Russell R., and N. Wine, Polo, Ill. Coin-collector for telephone systems. No. 994,946; June 13; Sp. p. 1881; Gaz. vol. 167; p. 331.
Mohn, Trygve, Manchester, England, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Condensing apparatus. No. 1,005,997; Oct. 17; Sp. p. 3131; Gaz. vol. 171; p. 562.
Mohr, Emil, Cologne, Germany. Making tooth-crowns. No. 988,647; Apr. 4; Sp. p. 768; Gaz. vol. 165; p. 123.
Mohr, Jens J. H., New Haven, Conn. Reflector. No. 1,009,434; Nov. 21; Sp. p. 4068; Gaz. vol. 172; p. 701.
Mohr, John C., Allentown, Pa. Grinding-machine. No. 1,006,258; Oct. 17; Sp. p. 3730; Gaz. vol. 171; p. 655.
Mohr, Otto H., San Francisco, Cal., assignor to Hydro-Suction Cleaner Co. Vacuum cleaning apparatus. No. 1,011,989; Dec. 19; Sp. p. 3577; Gaz. vol. 173; p. 625.
Mohr, Rosalia, San Francisco, Cal. Window and screen attachment. No. 1,001,294; Aug. 22; Sp. p. 4498; Gaz. vol. 169; p. 817.
Mohrstadt, Gustav W., Toronto, Ontario, Canada. Extension-ladder. No. 989,389; Apr. 11; Sp. p. 2326; Gaz. vol. 165; p. 393.
Mohs, Julius, Dessau, Germany. Disintegrator. No. 985,919; Mar. 7; Sp. p. 346; Gaz. vol. 164; p. 56.
Moisant, A. J., *et al.*, administrators. (See Kardos, Hugo, assignor.)
Moise, Lionel H., San Francisco, Cal. Illuminated sign. No. 1,004,807; Oct. 3; Sp. p. 558; Gaz. vol. 171; p. 91.
Moise, Lionel H., San Francisco, Cal. Illuminated sign. No. 1,004,808; Oct. 3; Sp. p. 560; Gaz. vol. 171; p. 92.
Molander, Hans P., San Diego, Cal. Wave-motor. No. 982,186; Jan. 17; Sp. p. 4444; Gaz. vol. 162; p. 745.
Molander, Hans P., San Diego, Cal. Wave-motor. No. 996,112; June 27; Sp. p. 4386; Gaz. vol. 167; p. 794.
Molby, Frank L., Detroit, Mich. Window construction. No. 1,004,672; Oct. 3; Sp. p. 257; Gaz. vol. 171; p. 45.
Molen, Joseph P., *et al.* (See Stein, Georg V., assignor.)
Molenaar, William, Paterson, N. J. Bill-file. No. 1,005,451; Oct. 10; Sp. p. 1920; Gaz. vol. 171; p. 339.
Molencki, Edward, Detroit, Mich. Wrench. No. 1,005,058; Oct. 3; Sp. p. 1057; Gaz. vol. 171; p. 177.
Molfenter, Charles W., New York, N. Y. Cap for milk-bottles. No. 981,457; Jan. 10; Sp. p. 2929; Gaz. vol. 162; p. 474.
Molinder, Herman J., Söderhamn, Sweden. Rotary mold for founding tubes and the like. No. 1,004,293; Sept. 26; Sp. p. 4649; Gaz. vol. 170; p. 823.
Moline Plow Company. (See Lindgren, Alexus C., assignor.)
Molino, Joseph, *et al.* (See Fessia, Charles, assignor.)
Molkenthin, Joseph, Jr., assignor to The Clark Blade & Razor Co., Newark, N. J. Safety-razor. No. 989,176; Apr. 11; Sp. p. 1859; Gaz. vol. 165; p. 322.
Molkenthin, Joseph, Jr., assignor to Clark Blade & Razor Company, Newark, N. J. Safety-razor. No. 1,005,273; Oct. 10; Sp. p. 1525; Gaz. vol. 171; p. 276.
Molkenthin, Joseph, Jr., assignor to Clark Blade & Razor Company, Newark, N. J. Safety-razor. No. 1,005,274; Oct. 10; Sp. p. 1526; Gaz. vol. 171; p. 276.
Moll, Alexander. (See Stürmann and Moll.)
Moll, Phebe J., Los Angeles, Cal. Cloth hair-curler. No. 1,009,923; Nov. 28; Sp. p. 5032; Gaz. vol. 172; p. 909.
Moll, Rudolph, A. Isenhagen, and C. Rettmeyer, Hamburg, Germany. Preserving marcipan. No. 995,625; June 20; Sp. p. 3350; Gaz. vol. 167; p. 590.
Mollart, Lobegott, assignor to G. B. Lewis Company, Watertown, Wis. Receptacle corner-hinge. No. 1,008,662; Nov. 14; Sp. p. 2349; Gaz. vol. 172; p. 397.
Moller, August, South Orange, N. J., assignor of one-half to C. Moller, New York, N. Y. Horseshoe-nail. No. 981,458; Jan. 10; Sp. p. 2931; Gaz. vol. 162; p. 474.
Moller, August, assignor of one-half to C. Moller, New York, N. Y. Making horseshoe-nails. No. 1,006,585; Oct. 24; Sp. p. 4496; Gaz. vol. 171; p. 801.
Möller, Carl, Ihringhausen, near Cassel, Germany. Distance instrument. No. 1,000,282; Aug. 8; Sp. p. 2259; Gaz. vol. 169; p. 400.
Möller, Carl, assignor to Akt.-Ges. Hahn für Optik und Mechanik, Ihringshausen, near Cassel, Germany. Optical reversing system. No. 986,642; Mar. 14; Sp. p. 1887; Gaz. vol. 164; p. 333.
Möller, Carl, assignor to Akt.-Ges. Hahn für Optik und Mechanik, Ihringshausen, near Cassel, Germany. Telescope. No. 988,279; Mar. 28; Sp. p. 5349; Gaz. vol. 164; p. 947.
Moller, Christian. (See Moller, August, assignor.)
Moller, Edvard M., Hoboken, N. J. Passenger-car. No. 994,183; June 6; Sp. p. 166; Gaz. vol. 167; p. 29.
Moller, Edvard M., Hoboken, and L. J. Remmele, Newark, N. J. Sliding doors for passenger-cars. No. 994,182; June 6; Sp. p. 163; Gaz. vol. 167; p. 29.
Möller, Niels P. S. (See Kreutzer and Möller.)
Möller, Thorvald, Esbjerg, Denmark. Edible fatty compound and making the same. No. 1,004,891; Oct. 3; Sp. p. 761; Gaz. vol. 171; p. 122.
Mollinger, Theodore G., assignor to S. B. Monroe, trustee, Kalamazoo, Mich. Treating milk. No. 1,005,275; Oct. 10; Sp. p. 1528; Gaz. vol. 171; p. 277.
Mollitor, Joseph A., Chicago, Ill. Cushion-tire. No. 981,213; Jan. 10; Sp. p. 2354; Gaz. vol. 162; p. 388.
Mollmam, Anton H., Jr., Hillsboro, Ill. Acetylene-gas lamp. No. 1,007,374; Oct. 31; Sp. p. 6199; Gaz. vol. 171; p. 1130.
Molmark, Einar, Ambridge, Pa. Spacing-table. No. 1,011,990; Dec. 19; Sp. p. 3579; Gaz. vol. 173; p. 626.
Moloney, William M., Toronto, Ontario, assignor to J. Playfair, Midland, Canada. Mail-changing device for railways. No. 1,006,586; Oct. 24; Sp. p. 4497; Gaz. vol. 171; p. 802.
Moltrup, James T., Beaver Falls, Pa. Crank-case construction for gas-engines. No. 993,863; May 30; Sp. p. 6515; Gaz. vol. 166; p. 1174.
Moltz, William E. (See Anderson and Moltz.)
Molyneux, Barton S., Buffalo, N. Y. Cigarette-tipping machine. No. 981,785; Jan. 17; Sp. p. 3577; Gaz. vol. 162; p. 607.
Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Power-transmitting device. No. 987,640; Mar. 21; Sp. p. 3943; Gaz. vol. 164; p. 702.
Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Looper mechanism for sewing-machines. No. 1,000,836; Aug. 15; Sp. p. 3489; Gaz. vol. 169; p. 627.
Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Sewing-machine guide. No. 1,011,473; Dec. 12; Sp. p. 2408; Gaz. vol. 173; p. 411.
Momand, Ragland, New York, N. Y., assignor to Pressure Lighting Company. Gas-burner. No. 1,010,445; Dec. 5; Sp. p. 82; Gaz. vol. 173; p. 17.

Alphabetical list of patentees—Continued.

Momentum Automatic Brake Co. (See Davis, John H., assignor.)
Monaghan, Hugh, Togo, Saskatchewan, Canada. Plow. No. 994,648; June 6; Sp. p. 1152; Gaz. vol. 167; p. 189.
Monarch Brass Company, The. (See Jennings, John F., assignor.)
Monarch Electric Company Limited. (See Normandeau, Joseph H. A., assignor.)
Monarch Manufacturing Company, The. (See Yoe, Henry F., assignor.)
Monarch Manufacturing and Supply Company. (See Albert, Abraham, assignor.)
Monarch Metal Weather Strip Company. (See Lane, Alfred M., assignor.)
Monarch Telephone Manufacturing Company. (See Fricke, William A., assignor.)
Monarch Telephone Manufacturing Company. (See Yaxley, Ernest E., assignor.)
Monarch Typewriter Company, The. (See Barney, Edwin E., assignor.)
Monarch Typewriter Company, The. (See Bond, Charles J., assignor.)
Monarch Typewriter Company, The. (See Brand, George B., assignor.)
Monarch Typewriter Company, The. (See Branson, Edwin F. M., assignor.)
Monarch Typewriter Company, The. (See Gill, Charles H., assignor.)
Monarch Typewriter Company, The. (See Goldberg, Morris G., assignor.)
Monarch Typewriter Company, The. (See Koerner, John W., assignor.)
Monarch Typewriter Company, The. (See Miller, Verne W., assignor.)
Monarch Typewriter Company, The. (See Seib, George A., assignor.)
Monarch Typewriter Company, The. (See Steele, Herbert H., assignor.)
Monarch Typewriter Company, The. (See Workman, Alexander H., assignor.)
Monarch Typewriter Company, The. (See Young, Frank A., assignor.)
Monas, Frank, Garfield, N. J. Door-lock. No. 1,006,971; Oct. 24; Sp. p. 5313; Gaz. vol. 171; p. 934.
Monasch, Berthold, Berlin, Germany, assignor to General Electric Company. Arc-light electrode. No. 1,010,942; Dec. 5; Sp. p. 1205; Gaz. vol. 173; p. 190
Monash, Charles P. (See Boegen, John E., assignor.)
Moncrief Manufacturing Company, The. (See Cuddy, Louis J., assignor.)
Moncrieff, Isaac H., and M. Reid, Willits, Cal. Apparatus for operating furnaces with fine fuel. No. 1,006,259; Oct. 17; Sp. p. 3732; Gaz. vol. 171; p. 656.
Moncrieff, Veon I., Kutztown, Pa. Power-transmission mechanism for motor-cycles. No. 998,298; July 18; Sp. p. 3713; Gaz. vol. 168; p. 662.
Moncus, Joseph G., Crowell, Tex. Fly-trap. No. 981,459; Jan. 10; Sp. p. 2931; Gaz. vol. 162; p. 475.
Mondragon, Manuel, Tacubaya, Mexico. Combined weapon and tool. No. 1,003,119; Sept. 12; Sp. p. 2065; Gaz. vol. 170; p. 356.
Monell, Ira F., Boulder, Colo. Ore-concentrator. No. 997,843; July 11; Sp. p. 2660; Gaz. vol. 168; p. 457.
Monette, John W., and W. R. Smart, Seattle, Wash. Mortise-guide. No. 990,452; Apr. 25; Sp. p. 4685; Gaz. vol. 165; p. 823.
Monette, Joseph B., Providence, R. I. Refrigerator-counter. No. 985,620; Feb. 28; Sp. p. 5134; Gaz. vol. 163; p. 907.
Monfils, Philias P., Worcester, Mass. Wire-drawing block. No. 995,548; June 20; Sp. p. 3162; Gaz. vol. 167; p. 562.
Monie, John M., Bonne Terre, Mo. Attachment for die-stocks. No. 992,973; May 23; Sp. p. 4607; Gaz. vol. 166; p. 841.
Monier, Frederick C., assignor to The North and Judd Manufacturing Company, New Britain, Conn. Spur. No. 987,905; Mar. 28; Sp. p. 4562; Gaz. vol. 164; p. 822.
Monitor Drill Company, The. (See Beeman, Edwin R., assignor.)
Monitor Drill Company, The. (See Beeman and Brennan, assignors.)
Monitor Drill Company, The. (See Brennan, Thomas, Jr., assignor.)
Monitor Drill Company, The. (See Rieske, Otto G., assignor.)
Monitor Manufacturing Company. (See Whittingham, George H., assignor.)
Monitor Manufacturing Company of Baltimore City. (See Whittingham, George H., assignor.)
Monmouth Aerial Vehicle and Transportation Company. (See Walling, Thomas M., assignor.)
Mönnot, John F. (See Herisson, Maurice, assignor.)
Monnot, John F., New York, N. Y., assignor to Duplex Metals Company, New York, N. Y., and Chester, Pa. Compound metal body and making the same. No. 1,001,669; Aug. 29; Sp. p. 5271; Gaz. vol. 169; p. 975.
Monnot, John F., assignor to Duplex Metals Company, New York, N. Y. Process of and apparatus for making clad metals. No. 1,004,673; Oct. 3; Sp. p. 259; Gaz. vol. 171; p. 45.
Monosmith, Thomas B., Bay City, Mich. Lamp-holder. No. 981,586; Jan. 10; Sp. p. 3174; Gaz. vol. 162; p. 517.
Monper, John, assignor of one-half to F. Obermiller, Pittsburgh, Pa. Toy. No. 1,012,409; Dec. 19; Sp. p. 4494; Gaz. vol. 173; p. 769.
Monroe, Antime, Portland, Oreg. Mowing-machine. No. 987,588; Mar. 21; Sp. p. 3839; Gaz. vol. 164; p. 684.
Monroe, Benjamin C., Tuscola, Ill. Feed-water heater for locomotives. No. 983,747; Feb. 7; Sp. p. 1052; Gaz. vol. 163; p. 168.
Monroe, Charles A., and W. E. Robinson, Lower Lake, Cal. Harrow. No. 1,006,972; Oct. 24; Sp. p. 5314; Gaz. vol. 171; p. 934.
Monroe, Frank B., Sr., *et al.* (See Remisch, Edward T., assignor.)
Monroe, Gilbert K., Pemberton, Ohio. Window and door weather-strip. No. 984,232; Feb. 14; Sp. p. 2139; Gaz. vol. 163; p. 362.
Monroe, James G., assignor of one-half to T. R. Murray, Clinton, Iowa. Cement and concrete railway-tie. No. 988,803; Apr. 4; Sp. p. 1099; Gaz. vol. 165; p. 175.
Monroe, James H., Santa Cruz, Cal. Spectacles. No. 981,872; Jan. 17; Sp. p. 3777; Gaz. vol. 162; p. 639.
Monroe, John J., Schuylerville, N. Y. Propelling device. No. 1,011,474; Dec. 12; Sp. p. 2411; Gaz. vol. 173; p. 412.
Monroe, Stephen B., trustee. (See Mollinger, Theodore G., assignor.)
Monson, George S., St. Paul, Minn. Centrifugal casting-machine. No. 1,009,167; Nov. 21; Sp. p. 3409; Gaz. vol. 172; p. 603.
Montag, Christoph F., Blue Island, Ill. Orthodontia apparatus. No. 986,076; Mar. 7; Sp. p. 684; Gaz. vol. 164; p. 110.
Montag, Christoph F., Blue Island, Ill. Orthodontia appliance. No. 1,002,536; Sept. 5; Sp. p. 798; Gaz. vol. 170; p. 116.
Montague Mailing Machinery Co. (See Owens, Charles, assignor.)
Montague Mailing Machinery Company. (See Lee, Ulysses G., assignor.)
Montague Mailing Machinery Company. (See Owens and Lee, assignors.)
Montague Mailing Machinery Company. (See Owens, Lee, and Lyle, assignors.)
Montague, Theodore H. (See Wiles, Russell, assignor.)
Montague, Theodore H., Blue Island, Ill. Orthodontia apparatus. No. 986,425; Mar. 7; Sp. p. 1409; Gaz. vol. 164; p. 227.
Montague, Theodore H., Blue Island, Ill. Orthodontia apparatus. No. 1,008,663; Nov. 14; Sp. p. 2350; Gaz. vol. 172; p. 397.
Montague, William L., Belmont, N. Y. Expanding chain-wheel. No. 980,662; Jan. 3; Sp. p. 1060; Gaz. vol. 162; p. 168.
Montaland, Louis, Villetaneuse, France. Converting pinene into camphene. No. 999,667; Aug. 1; Sp. p. 928; Gaz. vol. 169; p. 162.
Montaperto, T. Antonio, Rosebank, N. Y. Means for cutting bottles and the like. No. 999,668; Aug. 1; Sp. p. 929; Gaz. vol. 169; p. 162.
Montecino, Emanuel, Raceland, La. Apparatus for filtering sugar-cane juices. No. 980,815; Jan. 3; Sp. p. 1360; Gaz. vol. 162; p. 218.
Monteith, John. (See Be Vier and Monteith.)
Monteith, Mary H., Orange, N. J. Appliance to be used in teaching to read. No. 1,010,782; Dec. 5; Sp. p. 859; Gaz. vol. 173; p. 134.
Montet, Victor. (See Lemarchand and Montet.)
Montgomery, Aaron T., *et al.* (See De Shon, Clarence, assignor.)
Montgomery, Albert M. (See Montgomery, Hiram W., assignor.)
Montgomery, Alexander, Newton, assignor to American Steam Packing Company, Boston, Mass. Elastic core for packing material. No. 989,177; Apr. 11; Sp. p. 1861; Gaz. vol. 165; p. 323.
Montgomery, Beauchamp H., Toronto, Ontario, Canada. Hose-reel. No. 994,025; May 30; Sp. p. 6838; Gaz. vol. 166; p. 1227.
Montgomery, Christopher J., Rock Ferry, England. Engine of self-propelled vehicles or boats. No. 1,006,973; Oct. 24; Sp. p. 5318; Gaz. vol. 171; p. 934.
Montgomery Coal Washing & Manufacturing Company. (See Montgomery, James A., assignor.)
Montgomery, Franklin M., Shamrock, Tex. Merchandise-cabinet. No. 994,947; June 13; Sp. p. 1884; Gaz. vol. 167; p. 331.
Montgomery, Henry C., Chicago, Ill. Self-closing valve. No. 981,787; Jan. 17; Sp. p. 3585; Gaz. vol. 162; p. 608.
Montgomery, Henry T., Weatherford, Tex. Tool. No. 981,786; Jan. 17; Sp. p. 3583; Gaz. vol. 162; p. 608.
Montgomery, Hiram W., assignor of one-third to A. M. Montgomery, Santa Monica, Cal. Shaving-cup. No. 995,800; June 20; Sp. p. 3741; Gaz. vol. 167; p. 652.
Montgomery, James A., Birmingham, Ala., assignor to Montgomery Coal Washing & Manufacturing Company. Coal-washing apparatus. No. 998,373; July 18; Sp. p. 3879; Gaz. vol. 168; p. 689.

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Montgomery, James L., Mount Vernon, N. Y. Writing position and motion training card. No. 1,006,393; Oct. 17; Sp. p. 4025; Gaz. vol. 171; p. 702.
Montgomery, John E. G. (See Fitts and Montgomery.)
Montgomery, Leal L., Superior, Wis. Vacuum-pump and cleaning apparatus. No. 1,002,075; Aug. 29; Sp. p. 6142; Gaz. vol. 169; p. 1110.
Montgomery, Philip, Hartford, Conn. Lock for elevator-doors. No. 1,009,774; Nov. 28; Sp. p. 4748; Gaz. vol. 172; p. 860.
Montgomery-Washburn Co. (See Pellant, Adolph N., assignor.)
Montgomery, William A. (See Gold and Montgomery.)
Montrose, Emil, New York, N. Y. Filter. No. 994,864; June 13; Sp. p. 1697; Gaz. vol. 167; p. 303.
Montross, Levi H., Camden, N. J. Casket-sealing means. No. 987,906; Mar. 28; Sp. p. 4563; Gaz. vol. 164; p. 822.
Montross, Levi H., Camden, N. J. Casket. No. 992,794; May 23; Sp. p. 4197; Gaz. vol. 166; p. 775.
Montross, Levi H., Camden, N. J. Carrier and decoration for burial-caskets. No. 1,001,424; Aug. 22; Sp. p. 4785; Gaz. vol. 169; p. 862.
Moodie, Peter, Malden, Mass. Lock-nut. (Reissue.) No. 13,303; Oct. 31; Sp. p. 6836; Gaz. vol. 171; p. 1230.
Moodie, Robert, Rayleigh, England. Pneumatic separator. No. 988,486; Apr. 4; Sp. p. 416; Gaz. vol. 165; p. 68.
Moodie, Robert P., and C. W. Ball, Ottawa, Ontario, Canada. Electric iron. No. 986,488; Mar. 14; Sp. p. 1560; Gaz. vol. 164; p. 278.
Moody, Fred M., Whitman, Mass. Lawn-mower. No. 994,184; June 6; Sp. p. 172; Gaz. vol. 167; p. 30.
Moody, Fred M., Whitman, Mass. Lawn-mower. No. 1,012,892; Dec. 26; Sp. p. 5557; Gaz. vol. 173; p. 980.
Moody, George H. (See Webb, James P., asignor.)
Moody, Henry T., assignor to Victor Manufacturing Company, Newburyport, Mass. Self-closing door or shutter. No. 981,460; Jan. 10; Sp. p. 2933; Gaz. vol. 162; p. 475.
Moody, Herbert A. (See Whipple and Moody.)
Moody, Herbert A. (See Whipple, Moody, and Stevens.)
Moody, Herbert A., Hudson Falls, N. Y. Machine for making pulp-board. No. 1,002,425; Sept. 5; Sp. p. 562; Gaz. vol. 170; p. 80.
Moody, Preston T., Lacrosse, Wash. Flying-machine. No. 996,659; July 4; Sp. p. 130; Gaz. vol. 168; p. 23.
Moody, Thomas P., Chicago, Ill. Electric lighter for cigars. No. 1,011,357; Dec. 12; Sp. p. 2174; Gaz. vol. 173; p. 370.
Moody, William F., Denver, Colo. Electric brake. No. 998,976; July 25; Sp. p. 5226; Gaz. vol. 168; p. 931.
Mooers, George W., assignor of one-half to D. D. Dalby, Philadelphia, Pa. Horseshoe. No. 998,196; July 18; Sp. p. 3450; Gaz. vol. 168; p. 622.
Moofley, William G., Williamsport, Pa. Safety appliance for cars. No. 997,148; July 4; Sp. p. 1168; Gaz. vol. 168; p. 188.
Moon, Adam B., and W. E. Laurence, Mercer, Pa. Rail-fastening means. No. 995,891; June 20; Sp. p. 3937; Gaz. vol. 167; p. 683.
Moon, Albert V. (See Hull, Horace E., assignor.)
Moon, George H., Jr., Prescott, Iowa. Mail device. No. 1,012,410; Dec. 19; Sp. p. 4496; Gaz. vol. 173; p. 770.
Moon-Hopkins Billing Machine Company. (See Hopkins, William W., assignor.)
Moon-Hopkins Billing Machine Company. (See Thieme, Otto, assignor.)
Mooney, Edward L., assignor of one-half to P. W. Wirth, Minneapolis, Minn. Manifolding-sales-pad holder. No. 994,328; June 6; Sp. p. 464; Gaz. vol. 167; p. 80.
Mooney, Edward L., assignor of one-half to P. W. Wirth, Minneapolis, Minn. Loose-leaf file for holding individual accounts. No. 1,008,047; Nov. 7; Sp. p. 861; Gaz. vol. 172; p. 138.
Mooney, James W., and E. R. Kerby, Lawton, Okla. Train-pipe coupling. No. 999,176; July 25; Sp. p. 5604; Gaz. vol. 168; p. 997.
Mooney, Lawrence C., Montgomery, Ala. Locomotive ash-pan. No. 989,862; Apr. 18; Sp. p. 3367; Gaz. vol. 165; p. 587.
Mooney, Lawrence C., Montgomery, Ala. Concrete railway-tie. No. 1,004,583; Oct. 3; Sp. p. 69; Gaz. vol. 171; p. 13.
Mooney, William, Washington, D. C. Toy aeroplane. No. 1,010,783; Dec. 5; Sp. p. 860; Gaz. vol. 173; p. 134.
Moor, Edward N., Oakland, Cal. Heaving-plug for oil-wells. No. 987,812; Mar. 28; Sp. p. 4335; Gaz. vol. 164; p. 789.
Moor, Harry, Philadelphia, Pa. Furnace. No. 986,934; Mar. 14; Sp. p. 2489; Gaz. vol. 164; p. 431.
Moore, Anson G., Glen, N. Y. Lantern-holder. No. 980,816; Jan. 3; Sp. p. 1362; Gaz. vol. 162; p. 218.
Moore Architectural and Engineering Company, The. (See Heller, Charles S., assignor.)
Moore, Arthur L., assignor to Moore Drop Forging Company, Springfield, Mass. Wrench. No. 1,009,168; Nov. 21; Sp. p. 3412; Gaz. vol. 172; p. 603.
Moore Auto Skid Preventer Company. (See Moore, Robert A., assignor.)
Moore, Baxter S. (See Drake, James S., assignor.)
Moore, Benjiman R. (See Bradford and Moore.)
Moore, Bertha, Galt, Ontario, Canada. Stove-pot. No. 1,012,690; Dec. 26; Sp. p. 5068; Gaz. vol. 173; p. 909.
Moore, Blanche L., Lexington, Ky. Underwaist. No. 992,376; May 16; Sp. p. 3344; Gaz. vol. 166; p. 602.
Moore, Charles B., Evanston, Ill., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Locomotive-boiler furnace. No. 990,375; Apr. 25; Sp. p. 4492; Gaz. vol. 165; p. 794.
Moore, Charles B., assignor, by mesne assignments, to American Arch Company, New York, N. Y. Refractory arch for locomotive-boiler fire-boxes. No. 996,026; June 20; Sp. p. 4192; Gaz. vol. 167; p. 729.
Moore, Charles H., Toledo, Ohio. Game apparatus. No. 997,314; July 11; Sp. p. 1516; Gaz. vol. 168; p. 276.
Moore, Charles K. (See Daly and Moore.)
Moore, Charles M., assignor to Walls, Owen & Stambach Company, Philadelphia, Pa. Automatic valve-operating device for tanks. No. 997,844; July 11; Sp. p. 2662; Gaz. vol. 168; p. 457.
Moore, Charles S., Danvers, Mass. Vehicle signal device. No. 992,795; May 23; Sp. p. 4199; Gaz. vol. 166; p. 776.
Moore, Charles W., Oswego, S. C. Capo tasto. No. 1,007,960; Nov. 7; Sp. p. 704; Gaz. vol. 172; p. 109.
Moore, Daniel M., East Orange, N. J., assignor to Moore Electrical Company, New York, N. Y. Vacuum-tube. No. 984,016; Feb. 14; Sp. p. 1670; Gaz. vol. 163; p. 288.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Vacuum-tube lamp. No. 986,304; Mar. 7; Sp. p. 1135; Gaz. vol. 164; p. 183.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Photometer. No. 994,329; June 6; Sp. p. 465; Gaz. vol. 167; p. 80.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Mechanical joint for vacuum-tubes. No. 995,025; June 13; Sp. p. 2046; Gaz. vol. 167; p. 358.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Means for preventing an electric discharge through a gas column. No. 1,005,866; Oct. 17; Sp. p. 2840; Gaz. vol. 171; p. 517.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Co., New York, N. Y. Vacuum-tube lighting. No. 1,005,867; Oct. 17; Sp. p. 2842; Gaz. vol. 171; p. 517.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Vacuum-tube electric apparatus. No. 1,008,728; Nov. 14; Sp. p. 2494; Gaz. vol. 172; p. 419.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Company, New York, N. Y. Vacuum-tube lamp. No. 1,010,668; Dec. 5; Sp. p. 586; Gaz. vol. 173; p. 94.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Co., New York, N. Y. Wireless-telegraph apparatus. No. 1,010,669; Dec. 5; Sp. p. 588; Gaz. vol. 173; p. 94.
Moore, Daniel M., Newark, N. J., assignor to Moore Electrical Co., New York, N. Y. Automatic gas-feed for vacuum-tubes. No. 1,010,670; Dec. 5; Sp. p. 592; Gaz. vol. 173; p. 95.
Moore, David P., Washington, D. C. Seam-dampener. No. 1,005,735; Oct. 10; Sp. p. 2551; Gaz. vol. 171; p. 439.
Moore, David P., Washington, D. C., assignor to Union Typewriter Company, Ilion, N. Y. Interchangeable platen for type-writers. No. 980,879; Jan. 3; Sp. p. 1501; Gaz. vol. 162; p. 241.
Moore, David P., and S. B. Pack, Washington, D. C., assignors to Packmore Manufacturing Company. Suction cleaning-machine. No. 986,403; Mar. 7; Sp. p. 1363; Gaz. vol. 164; p. 219.
Moore, Dorus W., Fultonville, N. Y. Flying-machine. No. 1,000,283; Aug. 8; Sp. p. 2264; Gaz. vol. 169; p. 401.
Moore Drop Forging Company. (See Moore, Arthur L., assignor.)
Moore, Ebenezer J., Portland, Me. Machine for cutting and setting saw-teeth. No. 1,004,456; Sept. 26; Sp. p. 4985; Gaz. vol. 170; p. 877.
Moore, Edward Y., Cleveland, Ohio. Trolley. No. 997,690; July 11; Sp. p. 2273; Gaz. vol. 168; p. 403.
Moore, Edward Y., Cleveland, Ohio. Trolley-clamp. No. 999,393; Aug. 1; Sp. p. 399; Gaz. vol. 169; p. 71.
Moore, Edward Y., Cleveland, Ohio. Trolley-hoist. No. 1,005,452; Oct. 10; Sp. p. 1921; Gaz. vol. 171; p. 339.
Moore Electrical Company. (See Moore, Daniel M., assignor.)
Moore, Ernest M., and W. B. Timberlake, assignors to John B. Timberlake and Sons, Jackson, Mich. Stand for displaying dolls and the like. No. 995,982; June 20; Sp. p. 4107; Gaz. vol. 167; p. 714.
Moore, F. W., *et al.* (See Cumley, John W., assignor.)
Moore, Frank A., Wyandotte, Mich. Barrel-lifting truck. No. 986,585; Mar. 14; Sp. p. 1761; Gaz. vol. 164; p. 312.
Moore, Frederick, and J. A. Hall, Victoria, British Columbia, Canada. Acid-condenser. No. 986,846; Mar. 14; Sp. p. 2313; Gaz. vol. 164; p. 400.
Moore, Frederick W., assignor to The Luxemoor Leather Company, Newark, N. J. Embossed fibrous material. No. 1,005,059; Oct. 3; Sp. p. 1058; Gaz. vol. 171; p. 177.
Moore, Gaius C., assignor to John C. Moore Corporation, Rochester, N. Y. Loose-leaf binder and leaf therefor. No. 1,007,591; Oct. 31; Sp. p. 6682; Gaz. vol. 171; p. 1203.
Moore, George, Joplin, Mo. Filter. No. 1,007,592; Oct. 31; Sp. p. 6684; Gaz. vol. 171; p. 1204.

Moore, George D., and R. L. Morgan, Worcester, Mass. Armored tire. No. 992,796; May 23; Sp. p. 4201; Gaz. vol. 166; p. 776.
Moore, George F., Melrose Highlands, Mass., assignor, by mesne assignments, to J. Spaulding & Sons Company, Rochester, N. H. Cutting-machine. No. 1,002,599; Sept. 5; Sp. p. 938; Gaz. vol. 170; p. 139.
Moore, George R., Chicago, Ill. Apparatus for sinking wells. No. 1,007,723; Nov. 7; Sp. p. 154; Gaz. vol. 172; p. 25.
Moore, Guy T., Marlboro, Mass. Fire-alarm apparatus. No. 998,197; July 18; Sp. p. 3452; Gaz. vol. 168; p. 622.
Moore, H. J., *et al.* (See Akin, Allison R., assignor.)
Moore, Harold N., Kearney, Nebr. Train-pipe coupling. No. 1,011,229; Dec. 12; Sp. p. 1868; Gaz. vol. 173; p. 323.
Moore, Henry M., Lexington, Ky. Registered-letter record. No. 980,988; Jan. 10; Sp. p. 1852; Gaz. vol. 162; p. 309.
Moore, Herbert L. G., New York, N. Y. Photographic-printing attachment for gas and other burners. No. 1,004,294; Sept. 26; Sp. p. 4651; Gaz. vol. 170; p. 823.
Moore, Herbert T. (See Moebes and Moore.)
Moore, Hughes, Louisville, Ky. Vehicle-wheel. No. 1,005,276; Oct. 10; Sp. p. 1531; Gaz. vol. 171; p. 277.
Moore, James D., North Wilkesboro, N. C. Combination-shoe. No. 999,835; Aug. 8; Sp. p. 1261; Gaz. vol. 169; p. 246.
Moore, James E. A. (See Seaver and Moore.)
Moore, James I., Roodhouse, Ill. Caster-wheel for harvesting-machines. No. 980,817; Jan. 3; Sp. p. 1363; Gaz. vol. 162; p. 219.
Moore, James W., St. Joseph, Mo. Self-dumping fruit-bucket. No. 994,771; June 13; Sp. p. 1479; Gaz. vol. 167; p. 272.
Moore, Jason C., Jonespoint, N. Y. Treatment of porous structures. No. 996,042; June 20; Sp. p. 4230; Gaz. vol. 167; p. 735.
Moore, Jay W., Gays Mills, assignor to Stoelting Brothers Co., Kiel, Wis. Carrier. No. 1,000,429; Aug. 15; Sp. p. 2595; Gaz. vol. 169; p. 483.
Moore, John, Winnipeg, Manitoba, Canada. Calf-feeder. No. 1,002,426; Sept. 5; Sp. p. 567; Gaz. vol. 170; p. 80.
Moore, John A., Winston Salem, N. C. Steam-boiler gage. No. 1,012,411; Dec. 19; Sp. p. 4497; Gaz. vol. 173; p. 770.
Moore, John C. Y. (See Naylor and Moore.)
Moore, John H., *et al.* (See Capwell, Courtland G., assignor.)
Moore, John J., and P. C. McMahon, South Charleston, Ohio. Pool and billard table leveler. No. 1,006,974; Oct. 24; Sp. p. 5319; Gaz. vol. 171; p. 935.
Moore, John L., and J. F. Alexander, New York, N. Y. Means for operating incandescent-lamp switches. No. 1,004,182; Sept. 26; Sp. p. 4441; Gaz. vol. 170; p. 785.
Moore, John W., Raeford, N. C. Vegetable-slicer. No. 1,007,593; Oct. 31; Sp. p. 6688; Gaz. vol. 171; p. 1204.
Moore, Joseph C., Cedar Rapids, Iowa, assignor, by mesne assignments, to W. A. Walker, Racine, Wis. Automobile-jack. (Reissue.) No. 13,251; May 30; Sp. p. 7020; Gaz. vol. 166; p. 1261.
Moore, Joseph R., Fort Lupton, Colo. Apparatus for treating harness. No. 999,242; Aug. 1; Sp. p. 98; Gaz. vol. 169; p. 18.
Moore, Joseph W., West Allis, assignor to Allis-Chalmers Company, Milwaukee, Wis. Cylinder-liner. No. 982,739; Jan. 24; Sp. p. 5616; Gaz. vol. 162; p. 964.
Moore, Joseph W., Newton Highlands, assignor to The J. W. Moore Machine Company, Boston, Mass. Machine for making deckle and thin edged paper. No. 1,008,609; Nov. 14; Sp. p. 2227; Gaz. vol. 172; p. 379.
Moore, Louis S. (See Fitzpatrick and Moore.)
Moore, Louis S., assignor of four-fifths to J. I. McKinney, L. C. Campbell, J. E. Stevens, and W. Eldridge, Montgomery, Ala. Ash-pan for locomotives. No. 1,012,215; Dec. 19; Sp. p. 4103; Gaz. vol. 173; p. 704.
Moore, Margaret M., *et al.* (See Moore, Oliver M., assignor.)
Moore, Markquis D. (See Cuppy and Moore.)
Moore, Martin W., assignor of one-third to G. Conlisk and one-third to J. Lopez, Springfield, Ill. Acetylene-lamp. No. 1,008,923; Nov. 14; Sp. p. 2877; Gaz. vol. 172; p. 483.
Moore, Menlo E., Vincennes, Ind. Theatrical apparatus. No. 1,007,790; Nov. 7; Sp. p. 318; Gaz. vol. 172; p. 50.
Moore, Merrill. (See Moore, William D. and M.)
Moore, Moses M., assignor to T. W. Snow, Chicago, Ill. Stand-pipe. No. 1,000,104; Aug. 8; Sp. p. 1880; Gaz. vol. 169; p. 340.
Moore, Oliver M., assignor of three-fourths to M. M. Moore and one-fourth to G. H. Bartels, Carroll, Iowa. Bottle-corking machine. No. 988,205; Mar. 28; Sp. p. 5198; Gaz. vol. 164; p. 922.
Moore, Peter N., Milwaukee, Wis. Roller side bearing. No. 988,586; Apr. 4; Sp. p. 646; Gaz. vol. 165; p. 103.
Moore, Philip W., Evanston, assignor to Railway Specialty & Supply Company, Chicago, Ill. Railway-rail stay. No. 986,935; Mar. 14; Sp. p. 2492; Gaz. vol. 164; p. 431.
Moore, Philip W., Evanston, assignor to Railway Specialty & Supply Company, Chicago, Ill. Railway-rail stay. No. 999,669; Aug. 1; Sp. p. 931; Gaz. vol. 169; p. 162.
Moore, Philip W., Evanston, assignor to Railway Specialty & Supply Company, Chicago, Ill. Combination tie-plate and anticreeper. No. 1,000,105; Aug. 8; Sp. p. 1884; Gaz. vol. 169; p. 340.
Moore, Philip W., Evanston, assignor to The P. & M. Co., Chicago, Ill. Rail-anchor. No. 1,008,183; Nov. 7; Sp. p. 1139; Gaz. vol. 172; p. 187.
Moore, Raphael A., Portsmouth, Ohio. Toy pistol. No. 994,649; June 6; Sp. p. 1154; Gaz. vol. 167; p. 189.
Moore, Raphael A., Portsmouth, Ohio. Detonator. No. 996,505; June 27; Sp. p. 5290; Gaz. vol. 167; p. 928.
Moore, Redick R., Garfield, and J. H. Kees, Salt Lake City, Utah. Apparatus for the production of matte and smelting of ores. No. 985,195; Feb. 28; Sp. p. 4187; Gaz. vol. 163; p. 762.
Moore, Richard D., Galesburg, Ill. Railway-rail. No. 994,185; June 6; Sp. p. 174; Gaz. vol. 167; p. 31.
Moore, Richard H., Wakita, Okla. Knotter. No. 983,922; Feb. 14; Sp. p. 1461; Gaz. vol. 163; p. 258.
Moore, Robert A., Chicago, Ill. Flying-machine. No. 982,290; Jan. 24; Sp. p. 4695; Gaz. vol. 162; p. 812.
Moore, Robert A., Chicago, Ill., assignor to Moore Auto Skid Preventer Company, New York, N. Y. Antiskidding device for automobiles. No. 995,026; June 13; Sp. p. 2047; Gaz. vol. 167; p. 358.
Moore, Robert A., Chicago, Ill., assignor to Moore Auto Skid Preventer Company, New York, N. Y. Antiskidding device for automobiles. No. 998,714; July 25; Sp. p. 4601; Gaz. vol. 168; p. 838.
Moore, Robert A., Chicago, Ill., assignor to The Moore Auto Skid Preventer Company, New York, N. Y. Antiskidding device for automobiles. No. 1,008,354; Nov. 14; Sp. p. 1577; Gaz. vol. 172; p. 287.
Moore, Robert A., assignor to W. I. Levy, New York, N. Y. Door-fastening device. No. 1,002,812; Sept. 5; Sp. p. 1388; Gaz. vol. 170; p. 212.
Moore, Robert L., Merkel, Tex. Garden-plow. No. 1,001,974; Aug. 29; Sp. p. 5948; Gaz. vol. 169; p. 1078.
Moore, Robert S. (See Castle, James B., assignor.)
Moore, Robert S., assignor to E. Berliner, Washington, D. C. Gas-engine. No. 1,008,184; Nov. 7; Sp. p. 1142; Gaz. vol. 172; p. 188.
Moore, Robert S., and J. L. Simmons, assignors to Gyro Motor Company, Washington, D. C. Gas-engine. No. 1,004,457; Sept. 26; Sp. p. 4988; Gaz. vol. 170; p. 878.
Moore, Roswell A., assignor to Waterbury Buckle Co., Waterbury, Conn. Garment-supporter. No. 985,435; Feb. 28; Sp. p. 4735; Gaz. vol. 163; p. 842.
Moore, Roswell A., Berlin, Conn., assignor to The Waterbury Buckle Company. Buckle. No. 986,404; Mar. 7; Sp. p. 1364; Gaz. vol. 164; p. 220.
Moore, Roswell A., assignor to Waterbury Buckle Co., Waterbury, Conn. Garment-supporter hook. No. 991,795; May 9; Sp. p. 2061; Gaz. vol. 166; p. 370.
Moore, Samuel H., Phoenix, Ariz. Hod-stand. No. 1,000,284; Aug. 8; Sp. p. 2267; Gaz. vol. 169; p. 401.
Moore, Samuel J., assignor of two-thirds to T. Koop and O. J. Boesel, New Bremen, Ohio. Automobile-tire. No. 991,737; May 9; Sp. p. 1960; Gaz. vol. 166; p. 352.
Moore, Simon E., Clarinda, Iowa. Railway-rail fastening. No. 1,008,185; Nov. 7; Sp. p. 1143; Gaz. vol. 172; p. 188.
Moore, Thomas D., Philadelphia, Pa., assignor to Standard Dental Manufacturing Company. Mold for making artificial teeth. No. 1,000,187; Aug. 8; Sp. p. 2065; Gaz. vol. 169; p. 368.
Moore, Thomas J., Richmond Hill, N. Y. Mausoleum. No. 1,012,893; Dec. 26; Sp. p. 5559; Gaz. vol. 173; p. 980.
Moore, Thomas P., assignor to A. L. Frame, Reading, Pa. Sewer vent-box. No. 992,377; May 16; Sp. p. 3345; Gaz. vol. 166; p. 602.
Moore, Thomas P., assignor to W. H. Moore, Memphis, Tenn. Pressing and creasing iron. No. 1,003,194; Sept. 12; Sp. p. 2223; Gaz. vol. 170; p. 382.
Moore, Thomas R., Walden, N. Y. Explosive and other engine. No. 986,021; Mar. 7; Sp. p. 573; Gaz. vol. 164; p. 91.
Moore, W. H. (See Moore, Thomas P., assignor.)
Moore, Walter P., San Diego, Cal. Road-smoother. No. 1,011,230; Dec. 12; Sp. p. 1870; Gaz. vol. 173; p. 323.
Moore, Warren, Ladysmith, Wis., assignor of one-half to A. D. Day, Long Prairie, Minn. Portable earth-loading device. No. 1,001,212; Aug. 22; Sp. p. 4338; Gaz. vol. 169; p. 790.
Moore, Wharton T., Central Point, Oreg. Means for lashing packs on animals. No. 982,975; Jan. 31; Sp. p. 6139; Gaz. vol. 162; p. 1072.
Moore and White Company, The. (See White, Joseph A., assignor.)
Moore, William C., Seattle, Wash. Fluid-meter faucet. No. 1,008,849; Nov. 14; Sp. p. 2738; Gaz. vol. 172; p. 461.
Moore, William C., Jr. (See Kuhn, Emil J., assignor.)
Moore, William D. and M., Creston, Iowa. Facing building-blocks. No. 989,921; Apr. 18; Sp. p. 3492; Gaz. vol. 165; p. 607.
Moore, William F., Plainfield, N. J. Container. No. 988,804; Apr. 4; Sp. p. 1100; Gaz. vol. 165; p. 175.
Moore, William F., Plainfield, N. J. Pocket-book. No. 1,002,076; Aug. 29; Sp. p. 6145; Gaz. vol. 169; p. 1111.

Alphabetical list of patentees—Continued.

Moore, William H., Victor, Colo. Concrete post. No. 1,013,039; Dec. 26; Sp. p. 5888; Gaz. vol. 173; p. 1029.
Moore, William S., Princeton, Ill. Insulator. No. 996,782; July 4; Sp. p. 362; Gaz. vol. 168; p. 62.
Moores, Charles H., Chicago, assignor of one-half to F. H. Greenwood, Rockford, Ill. Apparatus for popping corn. No. 1,009,924; Nov. 28; Sp. p. 5033; Gaz. vol. 172; p. 909.
Moorhead, Albert E., San Francisco, Cal. Valve mechanism for pumps. No. 988,945; Apr. 4; Sp. p. 1370; Gaz. vol. 165; p. 219.
Moorhead, Albert E., San Francisco, Cal. Automatic by-pass for pumps. No. 1,001,295; Aug. 22; Sp. p. 4502; Gaz. vol. 169; p. 817.
Moorhead, John A., Sharpsburg, and J. Patterson, Pittsburg, Pa. Rail-fastening. No. 1,001,879; Aug. 29; Sp. p. 5738; Gaz. vol. 169; p. 1048.
Moorhouse, Albert H., Staleybridge, England. Apparatus for producing various sound effects for theatrical and like purposes. No. 1,004,060; Sept. 26; Sp. p. 4131; Gaz. vol. 170; p. 742.
Moorhouse, John M., Winnipeg, Manitoba, Canada. Snow-cleaner for car-tracks. No. 1,007,594; Oct. 31; Sp. p. 6689; Gaz. vol. 171; p. 1204.
Moosmann, Paul, New York, N. Y. Watchman's time-detector. (Reissue.) No. 13,201; Feb. 7; Sp. p. 1326; Gaz. vol. 163; p. 212.
Mora, Nicholas, Philadelphia, Pa. Shade-supporting device. No. 982,976; Jan. 31; Sp. p. 6140; Gaz. vol. 162; p. 1073.
Moraff, Israel, New York, assignor of one-half to J. Hahnesand, Brooklyn, N. Y. Folding cot. No. 981,873; Jan. 17; Sp. p. 3778; Gaz. vol. 162; p. 639.
Moraff, Israel, New York, assignor of one-half to J. Hahnesand, Brooklyn, N. Y. Folding cot. No. 981,874; Jan. 17; Sp. p. 3780; Gaz. vol. 162; p. 639.
Moraff, Israel, assignor of one-half to J. Hahnesand, New York, N. Y. Folding table. No. 997,079; July 4; Sp. p. 1028; Gaz. vol. 168; p. 165.
Moran, Frank J., assignor to The Stanley Works, New Britain, Conn. Door-bolt. No. 984,959; Feb. 21; Sp. p. 3661; Gaz. vol. 163; p. 646.
Moran, Harry L., Colorado Springs, Colo. Device for turning music. No. 1,010,671; Dec. 5; Sp. p. 593; Gaz. vol. 173; p. 95.
Moran, Hilarion, Fall River, Mass. Magazine tooth-brush. No. 995,626; June 20; Sp. p. 3351; Gaz. vol. 167; p. 590.
Moran, Thomas W. (See Jenkins, Charles H., assignor.)
Morâúszky, Mâtyâs, assignor of one-half to M. Meleg, New York, N. Y. Fender for vessels. No. 991,224; May 2; Sp. p. 842; Gaz. vol. 166; p. 143.
Morden, Charles W., assignor to Crown-Columbia Pulp & Paper Company, Portland, Oreg. Chuck for paper-rolls. No. 1,009,984; Nov. 28; Sp. p. 5161; Gaz. vol. 172; p. 929.
Moré, Sebastian R., Habana, Cuba. Automatic railway-switch. No. 993,187; May 23; Sp. p. 5049; Gaz. vol. 166; p. 911.
Moreau, Hector L., Ipswich, Mass. Making sculptors' molds. No. 996,783; July 4; Sp. p. 363; Gaz. vol. 168; p. 62.
Moreau, Hector L., Ipswich, Mass. Sculptor's mold. No. 996,784; July 4; Sp. p. 365; Gaz. vol. 168; p. 63.
Moreau, Joseph, St. Germain de Grantham, Quebec, Canada. Potato-digger. No. 986,077; Mar. 7; Sp. p. 686; Gaz. vol. 164; p. 110.
Moreau, Joseph, St. Germain de Grantham, Quebec, Canada. Potato-digger. No. 992,797; May 23; Sp. p. 4203; Gaz. vol. 166; p. 776.
Moreau, Oscar F. (See Tremblay, Alfred, assignor.)
Morehead, Herbert J. (See Purser, James E., assignor.)
Morehead, John I., Kensington, Kans. Change-mat. No. 986,936; Mar. 14; Sp. p. 2494; Gaz. vol. 164; p. 432.
Morehead, John M., assignor to Union Carbide Company, Chicago, Ill. Dissociating acetylene. No. 986,489; Mar. 14; Sp. p. 1562; Gaz. vol. 164; p. 278.
Morehouse, Brock K., Grand Junction, Colo. Rotary pump. No. 997,204; July 4; Sp. p. 1276; Gaz. vol. 168; p. 207.
Morehouse, Eugene, assignor to B. A. Ballou and Company, Inc., Providence, R. I. Safety-catch for pins. No. 986,196; Mar. 7; Sp. p. 915; Gaz. vol. 164; p. 148.
Morehouse, Eugene, assignor to The B. A. Ballou and Company, Inc., Providence, R. I. Safety-catch for pins. No. 993,787; May 30; Sp. p. 6368; Gaz. vol. 166; p. 1148.
Morehouse, Eugene W., assignor to B. A. Ballou & Company, Incorporated, Providence, R. I. Cuff-pin. No. 1,008,664; Nov. 14; Sp. p. 2351; Gaz. vol. 172; p. 397.
Morehouse, Leonard M., Newark, N. J. Loose-leaf binder. No. 997,634; July 11; Sp. p. 2162; Gaz. vol. 168; p. 383.
Morehouse Manufacturing Company, The. (See Bartholomew, Cassius M., assignor.)
Morel, Leopold, Montreal, Quebec, Canada. Swinging sash-frame for windows. No. 989,863; Apr. 18; Sp. p. 3369; Gaz. vol. 165; p. 588.
Morel, Marshall, Sheridan, Ill. Railway-tie. No. 992,681; May 16; Sp. p. 3961; Gaz. vol. 166; p. 707.
Moreland, William E., Union City, Ga. Bale-tying machine. No. 995,276; June 13; Sp. p. 2542; Gaz. vol. 167; p. 440.
Moreland, William E., Union City, Ga. Bale-tie. No. 1,008,850; Nov. 14; Sp. p. 2740; Gaz. vol. 172; p. 461.
Morelock, William H. H., assignor of one-half to A. B. Cole, Jonesboro, Ark. Resilient wheel. No. 1,003,775; Sept. 19; Sp. p. 3473; Gaz. vol. 170; p. 617.
Moren, Arthur J. (See Ljungberg, Nels T., assignor.)
Morén, Hugo. (See Sohlman, Nordenfelt, and Morén.)
Morewood, William B. (See Nevins and Morewood.)
Morey, Fred E., Baraboo, Wis. Vehicle steering device. No. 984,960; Feb. 21; Sp. p. 3662; Gaz. vol. 163; p. 646.
Morey, Harry A., assignor to The Ideal Gas Generator Company, Enid, Okla. Liquid-fuel burner. No. 996,660; July 4; Sp. p. 132; Gaz. vol. 168; p. 23.
Morey, Harry J., and F. A. Brogden, Syracuse, N. Y. Key-socket switch mechanism. No. 997,406; July 11; Sp. p. 1687; Gaz. vol. 168; p. 306.
Morey, Harry J., and F. A. Brogden, Syracuse, N. Y. Lamp-socket. No. 1,007,791; Nov. 7; Sp. p. 320; Gaz. vol. 172; p. 51.
Morey, Jay. (See Magruder and Morey.)
Morgan, Arthur C. (See Link and Morgan.)
Morgan, Arthur J., assignor to The National X-Ray Reflector Co., Chicago, Ill. Lamp and reflector holder. No. 988,487; Apr. 4; Sp. p. 418; Gaz. vol. 165; p. 68.
Morgan, Bernard, Newport, R. I. Test or priming cock. No. 982,009; Jan. 17; Sp. p. 4115; Gaz. vol. 162; p. 686.
Morgan-Clark System Company. (See Morgan and Clark, assignors.)
Morgan Construction Company. (See Carroll, Elbert H., assignor.)
Morgan Construction Company. (See Edwards, Victor E., assignor.)
Morgan Construction Company. (See George, Jerome R., assignor.)
Morgan Construction Company. (See Isley, George H., assignor.)
Morgan Construction Company. (See Stanton, William H., assignor.)
Morgan, E. D., *et al.* (See Stanley, George W., assignor.)
Morgan, Edward, and J. Bird, Newark, N. J. Automatic feed for button-machines. No. 1,005,277; Oct. 10; Sp. p. 1533; Gaz. vol. 171; p. 277.
Morgan Engineering Company, The. (See Morgan, William H., assignor.)
Morgan Engineering Company, The. (See Taylor, Clarence L., assignor.)
Morgan-Gardner Electric Company. (See Mitchell, Louis E., assignor.)
Morgan-Gardner Electric Company. (See Noble, Ralph E., assignor.)
Morgan-Gardner Electric Company. (See Noble and Mitchell, assignors.)
Morgan, George. (See Rice, Merrill B., assignor.)
Morgan, George M., Boston, Mass. Hair-picking machine. No. 1,000,430; Aug. 15; Sp. p. 2597; Gaz. vol. 169; p. 484.
Morgan, George W. (See Baur, Carl H. Vom, assignor.)
Morgan, George W., Jr. (See De Lukacsevics, Charles, assignor.)
Morgan, Henry W., Lestershire, N. Y. Wheel. No. 988,368; Apr. 4; Sp. p. 169; Gaz. vol. 165; p. 28.
Morgan, Hugh T., assignor to Ludwig, Boenning and Morgan, New York, N. Y. Collar for jackets. No. 998,627; July 25; Sp. p. 4413; Gaz. vol. 168; p. 808.
Morgan, James T. (See Jones and Morgan.)
Morgan, Jesse C., Cliffside Park, N. J. Pill-making machine. No. 989,178; Apr. 11; Sp. p. 1862; Gaz. vol. 165; p. 323.
Morgan, John B., and M. F. Clark, Rochester, N. Y., assignors to Morgan-Clark System Company, Detroit, Mich. Radiator-valve. No. 985,196; Feb. 28; Sp. p. 4189; Gaz. vol. 163; p. 762.
Morgan, John D., New York, N. Y., assignor to J. J. McDavitt, Pompton, N. J. Track-rebuilding. No. 1,000,431; Aug. 15; Sp. p. 2599; Gaz. vol. 169; p. 484.
Morgan, Joseph H. (See Kunz, Edward L., assignor.)
Morgan, Laura M., Rock Mart, Ga. Clothes-wringer. No. 1,004,295; Sept. 26; Sp. p. 4653; Gaz. vol. 170; p. 824.
Morgan, Mathew B., Lansing, assignor of one-half to O. M. Springer, Detroit, Mich. Explosive-engine. No. 985,920; Mar. 7; Sp. p. 347; Gaz. vol. 164; p. 56.
Morgan, Mathew B., assignor to Chalmers Motor Company, Detroit, Mich. Automobile. No. 1,001,063; Aug. 22; Sp. p. 4036; Gaz. vol. 169; p. 742.
Morgan, Nelson, Funk, Nebr. Hopple. No. 992,026; May 9; Sp. p. 2524; Gaz. vol. 166; p. 449.
Morgan, Ovid W. (See Hand and Morgan.)
Morgan, Ralph J. (See Moore and Morgan.)
Morgan, Ralph L., Worcester, Mass. Loading and unloading device. No. 982,977; Jan. 31; Sp. p. 6141; Gaz. vol. 162; p. 1073.
Morgan, Ralph L., Worcester, Mass. Transmission mechanism. No. 1,009,435; Nov. 21; Sp. p. 4069; Gaz. vol. 172; p. 701.
Morgan, Saxton J., Albany, Wis. Mixing or tumbling machine. No. 984,694; Feb. 21; Sp. p. 3135; Gaz. vol. 163; p. 555.
Morgan, Thomas W. (See Hackett and Morgan.)
Morgan, William, Cedar Falls, Iowa. Door-latch. No. 980,663; Jan. 3; Sp. p. 1062; Gaz. vol. 162; p. 168.

Morgan, William H., Alliance, Ohio. Metal tie. No. 1,003,637; Sept. 19; Sp. p. 3164; Gaz. vol. 170; p. 570.
Morgan, William H., Alliance, Ohio. Metal tie. No. 1,003,638; Sept. 19; Sp. p. 3166; Gaz. vol. 170; p. 570.
Morgan, William H., Alliance, Ohio. Metal tie. No. 1,003,639; Sept. 19; Sp. p. 3167; Gaz. vol. 170; p. 571.
Morgan, William H., Alliance, Ohio. Metal tie. No. 1,003,640; Sept. 19; Sp. p. 3168; Gaz. vol. 170; p. 571.
Morgan, William H., Alliance, Ohio. Clamp for securing railway-rails to metal ties. No. 1,005,278; Oct. 10; Sp. p. 1537; Gaz. vol. 171; p. 278.
Morgan, William H., Alliance, Ohio. Method of and apparatus for heating and discharging rails. No. 1,006,868; Oct. 24; Sp. p. 5101; Gaz. vol. 171; p. 899.
Morgan, William H., Alliance, Ohio. Making rail-securing clamps. No. 1,009,775; Nov. 28; Sp. p. 4751; Gaz. vol. 172; p. 860.
Morgan, William H., Alliance, Ohio. Metal tie for railways. No. 1,009,776; Nov. 28; Sp. p. 4752; Gaz. vol. 172; p. 860.
Morgan, William H., Alliance, Ohio. Metal tie and rail-securing device. No. 1,010,446; Dec. 5; Sp. p. 85; Gaz. vol. 173; p. 17.
Morgan, William H., Alliance, Ohio. Metal tie and means for securing rails thereto. No. 1,010,672; Dec. 5; Sp. p. 595; Gaz. vol. 173; p. 95.
Morgan, William H., Alliance, Ohio. Metal tie and clamp for securing rails to the same. No. 1,010,673; Dec. 5; Sp. p. 597; Gaz. vol. 173; p. 96.
Morgan, William H., Alliance, Ohio. Rail-joint and means for securing rails to metal ties. No. 1,010,674; Dec. 5; Sp. p. 599; Gaz. vol. 173; p. 96.
Morgan, William H., assignor to The Morgan Engineering Company, Alliance, Ohio. Ladle-crane. No. 980,321; Jan. 3; Sp. p. 274; Gaz. vol. 162; p. 50.
Morgan, William I., Seaford, assignor to J. W. Nelson, Brooklyn, N. Y. Valve mechanism. No. 1,004,892; Oct. 3; Sp. p. 762; Gaz. vol. 171; p. 122.
Morge, Grover, New Albany, Ind. Fire-igniting device. No. 998,374; July 18; Sp. p. 3881; Gaz. vol. 168; p. 689.
Morgenstern & Company. (See May, Otto B., assignor.)
Morgenstern, Severin, Charlottenburg, Germany. Obtaining alcohols or alcoholic matters from wool-fat. No. 991,874; May 9; Sp. p. 2229; Gaz. vol. 166; p. 398.
Moriarty, George J., Woodstock, Ill. Closet-seat attachment. No. 985,535; Feb. 28; Sp. p. 4965; Gaz. vol. 163; p. 878.
Morimura, Senshiro, Tokyo, Japan. Well-drilling machine. No. 984,287; Feb. 14; Sp. p. 2258; Gaz. vol. 163; p. 382.
Morimura, Senshiro, Tokyo, Japan. Drill-jar. No. 984,386; Feb. 14; Sp. p. 2451; Gaz. vol. 163; p. 414.
Morin, Edward J., Spokane, Wash. Hat-holder. No. 1,003,287; Sept. 12; Sp. p. 2424; Gaz. vol. 170; p. 417.
Morison, Donald B., Hartlepool, England. Apparatus for heating and evaporating liquids by means of steam. No. 1,000,285; Aug. 8; Sp. p. 2267; Gaz. vol. 169; p. 401.
Morison, Donald B., Hartlepool, England. Steam-condensing plant working under vacuum. No. 1,006,975; Oct. 24; Sp. p. 5321; Gaz. vol. 171; p. 935.
Morison, Donald B., Hartlepool, England. Water-heating and thermal storage apparatus. No. 1,008,851; Nov. 14; Sp. p. 2741; Gaz. vol. 172; p. 461.
Moritz, Frank P., Oak Park, Minn. Sleigh-knee. No. 983,390; Feb. 7; Sp. p. 287; Gaz. vol. 163; p. 48.
Moritz, Gustave, St. Louis, Mo. Eye-shield. No. 984,017; Feb. 14; Sp. p. 1673; Gaz. vol. 163; p. 288.
Moritz, Minnie, Oak Park, Ill. Barber's reversible hair-cloth. No. 1,003,489; Sept. 19; Sp. p. 2831; Gaz. vol. 170; p. 518.
Moritz, René, Wasquehal, France. Electrolytic device for generating pure oxygen and hydrogen. No. 981,102; Jan. 10; Sp. p. 2114; Gaz. vol. 162; p. 350.
Moritz, René, Wasquehal, France. Apparatus for making sulfuric acid. No. 981,103; Jan. 10; Sp. p. 2116; Gaz. vol. 162; p. 350.
Morkre, Soren I., Franklin, Wis. Self-cleaning currycomb. No. 999,836; Aug. 8; Sp. p. 1263; Gaz. vol. 169; p. 247.
Morkrum Company. (See Krum, Charles L., assignor.)
Morlan, Charles M., Los Angeles, Cal. Box. No. 998,109; July 18; Sp. p. 3284; Gaz. vol. 168; p. 592.
Morler, Christian. (See Hutteballe and Morler.)
Morley, Alice M., *et al.* (See Morley, Charles A., assignor.)
Morley Button Manufacturing Company. (See Cushman, Albert H., assignor.)
Morley, Charles A., Southington, assignor of one-fourth to S. B. White, Meriden, and one-fourth to A. M. Morley, Southington, Conn. Display-rack. No. 1,002,860; Sept. 12; Sp. p. 1505; Gaz. vol. 170; p. 266.
Morley, Joseph D., assignor to General Knit Fabric Company, Utica, N. Y. Rib-knitting machine. No. 1,000,837; Aug. 15; Sp. p. 3492; Gaz. vol. 169; p. 628.
Morlock, Albert J., New York, N. Y. Reduction system. No. 992,027; May 9; Sp. p. 2525; Gaz. vol. 166; p. 449.
Morlok, William. (See Thompson and Morlok.)
Morneau, Norbert, Holyoke, Mass. Shuttle-heater. No. 1,008,665; Nov. 14; Sp. p. 2353; Gaz. vol. 172; p. 397.
Moross, Joseph A. (See Fogalsang, Thomas E., assignor.)
Moross, Joseph A. (See Fogalsang and McCutcheon, assignors.)
Morral, Samuel E. and W. W., Morral, Ohio. Machine for removing the butt-ends of ears of corn. (Reissue.) No. 13,206; Feb. 14; Sp. p. 2751; Gaz. vol. 163; p. 460.
Morral, Samuel E. and W. W., Morral, Ohio. Machine for removing the butt-ends of ears of corn. (Reissue.) No. 13,207; Feb. 14; Sp. p. 2757; Gaz. vol. 163; p. 461.
Morral, William W. (See Morral, Samuel E. and W. W.) (Reissue.)
Morrell, Jackson L., New York, N. Y. Electric push-button. No. 1,006,394; Oct. 17; Sp. p. 4026; Gaz. vol. 171; p. 702.
Morrell, John H., Cttumwa, Iowa. Protective and preservative coating. No. 1,004,674; Oct. 3; Sp. p. 266; Gaz. vol. 171; p. 46.
Morrill, Herbert B., Salem, Mass. Valve-closing mechanism. No. 994,948; June 13; Sp. p. 1886; Gaz. vol. 167; p. 332.
Morrill, William F., Onsted, Mich. Lamp-bracket. No. 995,411; June 13; Sp. p. 2856; Gaz. vol. 167; p. 485.
Morris, Augustyn, *et al.* (See Laski, Antony, assignor.)
Morris, Cameron, Toledo, Ohio. Window-screen. No. 980,819; Jan. 3; Sp. p. 1374; Gaz. vol. 162; p. 220.
Morris Cash Register Company. (See Morris and Jamieson, assignors.)
Morris, Charles A., Montclair, N. J. Excavating system. No. 1,002,732; Sept. 5; Sp. p. 1237; Gaz. vol. 170; p. 184.
Morris, Charles A., Montclair, N. J. Excavating-shovel. No. 1,002,733; Sept. 5; Sp. p. 1242; Gaz. vol. 170; p. 185.
Morris, Charles A., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Car-haul. No. 1,000,106; Aug. 8; Sp. p. 1886; Gaz. vol. 169; p. 341.
Morris, Charles A., Montclair, assignor to Otis Elevator Company, Jersey City, N. J. Conveyer. No. 1,000,107; Aug. 8; Sp. p. 1891; Gaz. vol. 169; p. 341.
Morris, Edward R., and A. E. Bawtree, London, England. Means for detecting counterfeit bank-notes, bonds, coupons, and the like. No. 1,002,600; Sept. 5; Sp. p. 942; Gaz. vol. 170; p. 140.
Morris, Edwin S. (See Mulconroy and Morris.)
Morris Engineering Company. (See Morris, Henry G., assignor.)
Morris, Frank, Omaha, Nebr. Resilient wheel. No. 1,007,375; Oct. 31; Sp. p. 6200; Gaz. vol. 171; p. 1130.
Morris, Frank H., Philadelphia, Pa. Power-transmission mechanism. No. 1,011,830; Dec. 12; Sp. p. 3209; Gaz. vol. 173; p. 535.
Morris, George, Jr. (See Briggs and Morris.)
Morris, George A., Rome, Ga. Rail connection. No. 1,007,724; Nov. 7; Sp. p. 157; Gaz. vol. 172; p. 26.
Morris, George A., Rome, assignor of one-fifth to Sharp & Sharp and two-fifths to I. F. Vickery, Floyd county, Ga. Emergency-brake. No. 981,670; Jan. 17; Sp. p. 3336; Gaz. vol. 162; p. 566.
Morris, George A., assignor of three-tenths to Sharp & Sharp, three-tenths to G. J. Davis, and one-tenth to J. P. Swinford, Rome, Ga. Automobile tire-tool. No. 1,001,670; Aug. 29; Sp. p. 5275; Gaz. vol. 169; p. 975.
Morris, George W., Racine, Wis. Spring-mounting for vehicles. No. 996,997; July 4; Sp. p. 858; Gaz. vol. 168; p. 137.
Morris, George W., Racine, Wis. Clutch. No. 1,008,355; Nov. 14; Sp. p. 1578; Gaz. vol. 172; p. 287.
Morris, Harold B., executor. (See Morris and Van Derveer.)
Morris, Harry, Brooklyn, N. Y. Tool and tool-holder. No. 981,587; Jan. 10; Sp. p. 3176; Gaz. vol. 162; p. 518.
Morris, Henry B., deceased, (H. B. Morris, executor), and C. A. Van Derveer; said executor and said Van Derveer assignors to The Ford & Johnson Company, Michigan City, Ind. Railway-car seat. No. 985,364; Feb. 28; Sp. p. 4559; Gaz. vol. 163; p. 818.
Morris, Henry F., and B. F. Eaves, Draketown, Ga. Hoof trimmer and cutter. No. 989,793; Apr. 18; Sp. p. 3229; Gaz. vol. 165; p. 564.
Morris, Henry G., assignor to Morris Engineering Company, Philadelphia, Pa. Bearing for centrifugal machines. No. 1,005,776; Oct. 10; Sp. p. 2632; Gaz. vol. 171; p. 454.
Morris, Herbert, and F. Bastert, Loughborough, England. Lifting apparatus. No. 994,865; June 13; Sp. p. 1699; Gaz. vol. 167; p. 304.
Morris, John R., Jewell City, Kans. Tool. No. 986,419; Mar. 7; Sp. p. 1392; Gaz. vol. 164; p. 225.
Morris, John R., Waterloo, Iowa. Spike. No. 994,330; June 6; Sp. p. 468; Gaz. vol. 167; p. 80.
Morris, John R., Waterloo, Iowa. Trowel. No. 1,005,279; Oct. 10; Sp. p. 1538; Gaz. vol. 171; p. 278.
Morris, John V., and H. E. Oliver, assignors to Standing Vending Company, Birmingham, Ala. Coin vending-machine. No. 986,490; Mar. 14; Sp. p. 1563; Gaz. vol. 164; p. 279.
Morris, John V., and N. D. Edmondson, assignors to Standard Vending Company, Birmingham, Ala. Coin-controlled vending-machine. No. 999,837; Aug. 8; Sp. p. 1264; Gaz. vol. 169; p. 247.
Morris, Joseph, Chelsea, Mass. Apparatus for dispensing postage-stamps and paper strips. No. 991,738; May 9; Sp. p. 1961; Gaz. vol. 166; p. 352.

Alphabetical list of patentees—Continued.

Morris, Joseph G., Randall, Kans. Cleat. No. 991,739; May 9; Sp. p. 1964; Gaz. vol. 166; p. 352.
Morris, Joseph L., Lamar, Colo. Differential driving-gearing for automobiles. No. 998,628; July 25; Sp. p. 4414; Gaz. vol. 168; p. 808.
Morris, Joseph T., *et al.* (See Roop, Alley, assignor.)
Morris, Joshua L., Council Bluffs, and W. D. Jamieson, Shenandoah, Iowa, assignors, by mesne assignments, to Morris Cash Register Company, Portland, Me. Cash-register. No. 1,005,280; Oct. 10; Sp. p. 1539; Gaz. vol. 171; p. 279.
Morris, Laura E., assignor to L. T. Furnas, Lima, Ohio. Combined bust-form and corset-cover. No. 1,004,893; Oct. 3; Sp. p. 764; Gaz. vol. 171; p. 122.
Morris, Leopold, assignor of one-third to J. J. Welder, Sr., and one-third to J. J. Murphy, Sr., Victoria, Tex. Animal-trap. No. 992,232; May 16; Sp. p. 2993; Gaz. vol. 166; p. 551.
Morris, Otto M. (See Woodfield, Morris, and Gosling.)
Morris, Robert A., Elberfeld, Ind. Animal catching and holding device. No. 983,248; Jan. 31; Sp. p. 6715; Gaz. vol. 162; p. 1165.
Morris, Thomas F., assignor of one-half to C. C. Ormsby, Waterford, N. Y. Knitting-machine. No. 1,008,280; Nov. 7; Sp. p. 1366; Gaz. vol. 172; p. 223.
Morris, Thomas W., Hopkinsville, Ky. Meter-box top. No. 986,197; Mar. 7; Sp. p. 916; Gaz. vol. 164; p. 148.
Morris, William, Cleveland, Ohio. Spring-wheel. No. 1,011,638; Dec. 12; Sp. p. 2829; Gaz. vol. 173; p. 472.
Morris, William H., Midvale, N. J. Pool-table. No. 980,989; Jan. 10; Sp. p. 1853; Gaz. vol. 162; p. 309.
Morris, William H., assignor of one-half to A. Texley, Carroll, Nebr. Corn-harvester. No. 986,198; Mar. 7; Sp. p. 918; Gaz. vol. 164; p. 149.
Morris, William L., Batavia, Ill., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Oiling device. No. 997,315; July 11; Sp. p. 1518; Gaz. vol. 168; p. 276.
Morris, William L., Cleveland, Ohio, assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Lubricator. No. 999,838; Aug. 8; Sp. p. 1267; Gaz. vol. 169; p. 248.
Morrisey, Richard A., Philadelphia, Pa. Switch-operating mechanism. No. 990,376; Apr. 25; Sp. p. 4501; Gaz. vol. 165; p. 795.
Morrison, Andrew, Pittsburgh, Pa., assignor to Cambria Steel Company. Rail-splice. No. 1,008,427; Nov. 14; Sp. p. 1800; Gaz. vol. 172; p. 313.
Morrison, Andrew M., Dubuque, Iowa. Antisiphoning trap. No. 988,369; Apr. 4; Sp. p. 171; Gaz. vol. 165; p. 29.
Morrison, Andrew M., Dubuque, Iowa. Riveting-machine. No. 988,370; Apr. 4; Sp. p. 172; Gaz. vol. 165; p. 29.
Morrison, Benjamin, and G. H. Loselle, Wyandotte, Mich. Repairing the linings of rotary cement-kilns. No. 986,741; Mar. 14; Sp. p. 2084; Gaz. vol. 164; p. 365.
Morrison, Bentley R., St. Peters, Pa. Locking whip-socket. No. 996,506; June 27; Sp. p. 5291; Gaz. vol. 167; p. 928.
Morrison, Cornelius, Glasgow, Ky. Churn. No. 990,896; May 2; Sp. p. 145; Gaz. vol. 166; p. 27.
Morrison, Drinthy M., Duluth, Minn. Sewing-cabinet. No. 996,875; July 4; Sp. p. 570; Gaz. vol. 168; p. 94.
Morrison, Eston G., assignor of one-half to A. Elliott, Mingo, Iowa. Acetylene-gas generator. No. 989,179; Apr. 11; Sp. p. 1863; Gaz. vol. 165; p. 323.
Morrison, J. W., Jr., *et al.* (See Garretson, Eugene, assignor.)
Morrison, James, Montreal, Quebec, Canada. Water-closet. No. 986,586; Mar. 14; Sp. p. 1762; Gaz. vol. 164; p. 312.
Morrison, Jay W., Detroit, Mich. Combination-tool. No. 1,001,425; Aug. 22; Sp. p. 4787; Gaz. vol. 169; p. 862.
Morrison, John A. (See Fisher and Morrison.)
Morrison, John C., New York, N. Y. Lacing hook or fastener. No. 992,028; May 9; Sp. p. 2528; Gaz. vol. 166; p. 449.
Morrison, Joseph O., Anderson, Ind., assignor of one-fourth to F. J. Kent, New York, N. Y. Speed-measure. No. 995,412; June 13; Sp. p. 2857; Gaz. vol. 167; p. 485.
Morrison, Lewis E., Newark, N. J., assignor to Automatic Platen Press Company, New York, N. Y. Printing-machine. No. 993,612; May 30; Sp. p. 5973; Gaz. vol. 166; p. 1087.
Morrison, Lewis E., Newark, N. J., assignor to Automatic Platen Press Company, New York, N. Y. Gripping mechanism for printing-machines. No. 993,613; May 30; Sp. p. 5980; Gaz. vol. 166; p. 1088.
Morrison, Septimus P., Stuttgart, Ark., and V. Morrison, Indianapolis, Ind. Packing. No. 984,836; Feb. 21; Sp. p. 3432; Gaz. vol. 163; p. 605.
Morrison, Van Dolah. (See Morrison, Septimus P. and V.)
Morrison, Van Dolah, and A. H. Schlaegel, assignors of one-third to F. O. Fitton, Indianapolis, Ind. Piston and cylinder construction. No. 984,837; Feb. 21; Sp. p. 3434; Gaz. vol. 163; p. 606.
Morrison, Van Dolah, and A. H. Schlaegel, assignors of one-third to F. O. Fitton, Indianapolis, Ind. Lock for stuffing-boxes. No. 1,003,641; Sept. 19; Sp. p. 3169; Gaz. vol. 170; p. 571.
Morrison, William, Chicago, Ill. Electric battery. No. 1,006,494; Oct. 24; Sp. p. 4271; Gaz. vol. 171; p. 767.
Morrison, William, Des Moines, Iowa. Storage-battery electrode and making it. No. 1,008,852; Nov. 14; Sp. p. 2743; Gaz. vol. 172; p. 462.
Morrison, William, Des Moines, Iowa. Storage-battery electrode and making it. No. 1,008,853; Nov. 14; Sp. p. 2745; Gaz. vol. 172; p. 462.
Morrison, William, Des Moines, Iowa. Storage-battery electrode and making it. No. 1,008,854; Nov. 14; Sp. p. 2746; Gaz. vol. 172; p. 462.
Morrison, William, Des Moines, Iowa, assignor to Vesta Accumulator Company, Chicago, Ill. Binoxid-of-hydrogen electrode. No. 1,006,774; Oct. 24; Sp. p. 4871; Gaz. vol. 171; p. 865.
Morrison, William J. (See McKenzie and Morrison.)
Morrison, William J., Sioux City, assignor of one-half to J. A. Tracy, Des Moines, Iowa. Hat-pin guard. No. 1,012,412; Dec. 19; Sp. p. 4499; Gaz. vol. 173; p. 771.
Morrissey, Patrick K. (See Glavin and Morrissey.)
Morrissy, Patrick F., *et al.* (See Byrne and Wise, assignors.)
Morrow, Almond R., *et al.* (See Herd, Frank J., assignor.)
Morrow, Edward S., and C. M. Simmons, Cestos, Okla. Power-transmission mechanism. No. 988,729; Apr. 4; Sp. p. 955; Gaz. vol. 165; p. 151.
Morrow, Jonathan H., Slippery Rock, Pa. Rail-joint. No. 989,390; Apr. 11; Sp. p. 2330; Gaz. vol. 165; p. 394.
Morrow, Oliver, *et al.* (See Palmateer, Sylvanus, assignor.)
Morscher, Lawrence N., *et al.*, trustees. (See Morscher, Lawrence N., assignor.)
Morscher, Lawrence N., Lawrence, assignor to W. J. Ehrsam, Enterprise, and L. N. Morscher, Lawrence, Kans., trustees. Grader. No. 990,157; Apr. 18; Sp. p. 3976; Gaz. vol. 165; p. 686.
Morse, Albert O., assignor of one-half to C. V. Wright, Leominster, Mass. Baby-carriage. No. 997,466; July 11; Sp. p. 1794; Gaz. vol. 168; p. 325.
Morse, Alfred B., South Easton, Mass. Automatic lubricator for motor-car engines. No. 1,000,188; Aug. 8; Sp. p. 2069; Gaz. vol. 169; p. 368.
Morse, Arthur J., Torrington, Conn., assignor to Connecticut Motor Vehicle Company, New York, N. Y. Transmission-gearing. No. 982,978; Jan. 31; Sp. p. 6142; Gaz. vol. 162; p. 1073.
Morse Chain Company. (See Morse, Frank L., assignor.)
Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Multiplate drive-chain. No. 989,719; Apr. 18; Sp. p. 3053; Gaz. vol. 165; p. 538.
Morse, George F., Peru, N. Y. Grape and orange clipper. No. 1,010,784; Dec. 5; Sp. p. 862; Gaz. vol. 173; p. 135.
Morse, George W., Juneau, Wis. Drain-plow. No. 1,006,116; Oct. 17; Sp. p. 3383; Gaz. vol. 171; p. 603.
Morse, Harvey B., Portland, Me. Cover for receptacles. No. 983,832; Feb. 7; Sp. p. 1241; Gaz. vol. 163; p. 198.
Morse, John, and F. T. Kaelin, Montreal, Quebec, Canada. Electric switch. No. 997,316; July 11; Sp. p. 1521; Gaz. vol. 168; p. 276.
Morse, John R., assignor of one-third to O. W. Pattan, Los Angeles, Cal. Shackle. No. 988,587; Apr. 4; Sp. p. 647; Gaz. vol. 165; p. 104.
Morse, Joseph E., and O. Andersen, Philadelphia, Pa. Bending-machine. No. 990,377; Apr. 25; Sp. p. 4503; Gaz. vol. 165; p. 795.
Morse, Joseph F., Chicago, Ill. Sun-path dial. No. 990,764; Apr. 25; Sp. p. 5382; Gaz. vol. 165; p. 929.
Morse, Nora A., Abilene, Kans. Gage. No. 1,002,734; Sept. 5; Sp. p. 1245; Gaz. vol. 170; p. 185.
Morse, Reginald K. (See Weickel and Morse.)
Morse, Theodore F., assignor to Huntley Manufacturing Company, Silver Creek, N. Y. Separating-machine. No. 1,013,040; Dec. 26; Sp. p. 5889; Gaz. vol. 173; p. 1030.
Morse, William H. (See Blay, William L., assignor.)
Morss, Everett, assignor to The Simplex Electrical Company, Boston, Mass. Electric conductor. No. 983,161; Jan. 31; Sp. p. 6525; Gaz. vol. 162; p. 1134.
Morten, Frank M., Norwood, Ohio. Ship manipulating and turning apparatus. No. 983,078; Jan. 31; Sp. p. 6379; Gaz. vol. 162; p. 1109.
Mortensen, Sören H., Milwaukee, Wis., assignor to Allis-Chalmers Company. Turbo-rotor construction. No. 1,003,120; Sept. 12; Sp. p. 2066; Gaz. vol. 170; p. 356.
Mortenson, Otto J., Wibaux, Mont. Ash-pan and detachable bail therefor. No. 980,990; Jan. 10; Sp. p. 1856; Gaz. vol. 162; p. 310.
Morter, George W., Winnipeg, Manitoba, Canada. Pipe-rest. No. 999,331; Aug. 1; Sp. p. 264; Gaz. vol. 169; p. 49.
Morton, Albert B., Wakefield, Mass. Stuffing-box for gas-meters. No. 991,225; May 2; Sp. p. 843; Gaz. vol. 166; p. 143.
Morton, Albert H., Lowell, Mass. Spindle-support for spinning, twisting, and the like machines. No. 988,128; Mar. 28; Sp. p. 5058; Gaz. vol. 164; p. 898.
Morton, Albert H., Lowell, Mass. Doffer-guard and oil-well cover for spindle-supports for spinning and the like machines. No. 988,129; Mar. 28; Sp. p. 5060; Gaz. vol. 164; p. 898.
Morton, Albert H., Lowell, Mass. Spindle-support for spinning, twisting, and the like machines. No. 988,130; Mar. 28; Sp. p. 5061; Gaz. vol. 164; p. 898.

Morton, Albert H., Lowell, Mass. Spindle-support for spinning, twisting, and like machines. No. 1,008,855; Nov. 14; Sp. p. 2747; Gaz. vol. 172; p. 462.
Morton, Albert L., Springfield, Ill. Seat. No. 1,004,458; Sept. 26; Sp. p. 4992; Gaz. vol. 170; p. 878.
Morton, Alfred M. (See Milligan and Morton.)
Morton, Arthur, Warwick, assignor to Crompton Company, Providence, R. I. Pile-cutting machine. No. 980,991; Jan. 10; Sp. p. 1858; Gaz. vol. 162; p. 310.
Morton, Arthur, Warwick, assignor to Crompton Company, Providence, R. I. Knife-holder and knife for cutting pile fabrics. No. 980,992; Jan. 10; Sp. p. 1863; Gaz. vol. 162; p. 310.
Morton, Frank M., Phoenix, Ala. Beam-supporting attachment for warp-frames. No. 1,010,298; Nov. 28; Sp. p. 5817; Gaz. vol. 172; p. 1036.
Morton, Frank M., Phoenix, Ala. Revolving-collapsible-beam vacuum dyeing-machine. No. 1,010,513; Dec. 5; Sp. p. 258; Gaz. vol. 173; p. 41.
Morton, Frank M., assignor of one-third to W. H. Dismuke, Phoenix, Ala., and one-third to H. L. Woodruff, Columbus, Ga. Revolving collapsible beam for dyeing-machines. No. 987,480; Mar. 21; Sp. p. 3638; Gaz. vol. 164; p. 648.
Morton, Frank M., assignor of one-third to W. H. Dismuke, Phoenix, Ala., and one-third to H. L. Woodruff, Columbus, Ga. Revolving collapsible beam for dyeing-machines. No. 987,481; Mar. 21; Sp. p. 3640; Gaz. vol. 164; p. 648.
Morton, Henry E., administrator. (See Morton, Matthew and H. E.)
Morton, Henry E., Muskegon, Mich. Work-holder for shaping-machines. No. 982,979; Jan. 31; Sp. p. 6149; Gaz. vol. 162; p. 1074.
Morton, Henry E., and H. Mann, Muskegon, assignors to Morton Manufacturing Company, Muskegon Heights, Mich. Work-holder for shapers. No. 991,347; May 2; Sp. p. 1116; Gaz. vol. 166; p. 186.
Morton, John T. (See Milligan and Morton.)
Morton, Joseph, Vancouver, British Columbia, Canada. Safety appliance for railway-tracks. No. 989,276; Apr. 11; Sp. p. 2079; Gaz. vol. 165; p. 355.
Morton, Josephine, London, assignor to Melvin Williams & Co., Ltd., Cardiff, England. Sound recording and reproducing instrument. No. 992,029; May 9; Sp. p. 2529; Gaz. vol. 166; p. 450.
Morton, Leslie W., Canton, Ill. Drill. No. 994,186; June 6; Sp. p. 176; Gaz. vol. 167; p. 31.
Morton Manufacturing Company. (See Morton and Mann, assignors.)
Morton, Marshall J., assignor of one-half to J. I. Wagy, Los Angeles, Cal. Oil-well pump. No. 985,052; Feb. 21; Sp. p. 3841; Gaz. vol. 163; p. 678.
Morton, Matthew, deceased, and H. E. Morton, Muskegon Heights, Mich.; said H. E. Morton, administrator. Draw-cut foundry-shaper. No. 983,748; Feb. 7; Sp. p. 1053; Gaz. vol. 163; p. 168.
Morton, Milo A., assignor of one-half to S. W. Johnson, Brownwood, Tex. Boiler washing-machine. No. 1,001,426; Aug. 22; Sp. p. 4789; Gaz. vol. 169; p. 863.
Morton, Walter S., New York, N. Y. Concrete dam. No. 1,001,427; Aug. 22; Sp. p. 4790; Gaz. vol. 169; p. 863.
Morton, Worthington E., Shelby, N. C. Comber and stop-motion therefor. No. 998,375; July 18; Sp. p. 3882; Gaz. vol. 168; p. 689.
Morton, Worthington E., Shelby, N. C. Circuit-closing device. No. 1,006,395; Oct. 17; Sp. p. 4028; Gaz. vol. 171; p. 702.
Morton, Worthington E., Shelby, N. C. Stop-motion. No. 1,012,216; Dec. 19; Sp. p. 4104; Gaz. vol. 173; p. 704.
Morton, Worthington E., Shelby, N. C. Measuring device. No. 1,012,894; Dec. 26; Sp. p. 5562; Gaz. vol. 173; p. 981.
Mosby, Jeanette, Oak Park, Ill. Tooth-brush. No. 1,007,042; Oct. 24; Sp. p. 5460; Gaz. vol. 171; p. 957.
Mosby, Wilton S., Newport News, Va. Packing-board for trunks. No. 993,393; May 30; Sp. p. 5492; Gaz. vol. 166; p. 1012.
Mosch, Charles, Milwaukee, Wis. Extension-table. No. 998,110; July 18; Sp. p. 3285; Gaz. vol. 168; p. 592.
Moschcowitz, Schamu M., New York, N. Y. Adjustable dress-form. No. 989,630; Apr. 18; Sp. p. 2873; Gaz. vol. 165; p. 508.
Moscicki, Kajetan, Warsaw, Russia. Oscillating engine. No. 1,000,432; Aug. 15; Sp. p. 2602; Gaz. vol. 169; p. 484.
Moscrip, George, Jr., Robyville, Ohio. Cage for bananas. No. 1,007,477; Oct. 31; Sp. p. 6416; Gaz. vol. 171; p. 1165.
Moseley, Emerson B., Alliance, Ohio. Can-opener. No. 1,011,358; Dec. 12; Sp. p. 2175; Gaz. vol. 173; p. 370.
Moser, Fred J., Kane, Pa. Internal-combustion engine. No. 989,391; Apr. 11; Sp. p. 2331; Gaz. vol. 165; p. 394.
Moser, Garret W., assignor of one-third to J. Moser, Norristown, and one-third to I. A. Moser, Schwenksville, Pa. Apparatus for cutting washers from boiler-caps. No. 1,011,991; Dec. 19; Sp. p. 3584; Gaz. vol. 173; p. 626.
Moser, George, Minneapolis, Minn. Water-glass guard. No. 986,199; Mar. 7; Sp. p. 923; Gaz. vol. 164; p. 149.
Moser, George F., Los Angeles, Cal. Drilling apparatus. No. 992,895; May 23; Sp. p. 4429; Gaz. vol. 166; p. 812.
Moser, Isaac A., *et al.* (See Moser, Garret W., assignor.)
Moser, Jacob, *et al.* (See Moser, Garret W., assignor.)
Moser, Joseph L. (See Webster, Moses N., assignor.)
Moser, Samuel L., Upper Sandusky, Ohio. Alimentary product and making the same. No. 985,621; Feb. 28; Sp. p. 5136; Gaz. vol. 163; p. 908.
Moser, Samuel L., Upper Sandusky, Ohio. Flaked-grain mill. No. 985,622; Feb. 28; Sp. p. 5138; Gaz. vol. 163; p. 908.
Moses, Adolph, Mount Vernon, N. Y. Automatic vending-machine. No. 986,078; Mar. 7; Sp. p. 687; Gaz. vol. 164; p. 110.
Moses, Charles F., Sheboygan, Wis. Expansible mold. No. 989,994; Apr. 18; Sp. p. 3657; Gaz. vol. 165; p. 633.
Moses, Elvard L., assignor to The Oxygenator Co., Buffalo, N. Y. Contact-disk. No. 990,158; Apr. 18; Sp. p. 3983; Gaz. vol. 165; p. 687.
Moses, Jacob B., Dallas, Tex. Hose-supporter. No. 989,024; Apr. 11; Sp. p. 1541; Gaz. vol. 165; p. 270.
Moses, Mose, assignor of three-eighths to J. C. Klein and five-eighths to C. H. Spengler, Jackson, Miss. Rail-joint. No. 1,009,087; Nov. 21; Sp. p. 3257; Gaz. vol. 172; p. 576.
Moseson, Charles M. L., Fitchburg, Mass. Friction-clutch. No. 1,008,428; Nov. 14; Sp. p. 1802; Gaz. vol. 172; p. 313.
Mosher, Charles P., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 981,214; Jan. 10; Sp. p. 2355; Gaz. vol. 162; p. 389.
Mosher, Charles P., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 987,813; Mar. 28; Sp. p. 4337; Gaz. vol. 164; p. 790.
Mosher, Charles P., Syracuse, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 988,013; Mar. 28; Sp. p. 4824; Gaz. vol. 164; p. 860.
Mosher, Clarence H., Salisbury Mills, N. Y. Lawn-cleaner. No. 998,544; July 18; Sp. p. 4208; Gaz. vol. 168; p. 745.
Mosher, Harry S., assignor to The Altman Neckwear Co., New York, N. Y. Neckwear. No. 988,280; Mar. 28; Sp. p. 5354; Gaz. vol. 164; p. 948.
Mosher, Marvin E. (See Heckman, Clarence E., assignor.)
Mosher, Michael H., Columbia City, Ind. Operating mechanism for street-railway switches. No. 996,507; June 27; Sp. p. 5292; Gaz. vol. 167; p. 928.
Mosher, Walter R., Poultney, Vt. Varnish-can. No. 1,008,856; Nov. 14; Sp. p. 2748; Gaz. vol. 172; p. 463.
Mosholder, Jonathan S., and H. I. Blough, Johnstown, Pa. Folding crate and box. No. 997,931; July 11; Sp. p. 2855; Gaz. vol. 168; p. 487.
Mosle, Maximilian A. (See McDonald, John R., assignor.)
Mosler, Arthur R., assignor to A. R. Mosler & Co., New York, N. Y. Electric ignition device. No. 991,226; May 2; Sp. p. 844; Gaz. vol. 166; p. 144.
Mosler, Arthur R., assignor to A. R. Mosler & Co., New York, N. Y. Circuit-breaker for electric ignition devices. No. 1,001,671; Aug. 29; Sp. p. 5276; Gaz. vol. 169; p. 976.
Mosley, Thomas, Lawton, Okla. Corner-fastening for bedsteads. No. 1,010,943; Dec. 5; Sp. p. 1207; Gaz. vol. 173; p. 190.
Mosley, William, St. Paul, Minn. Stuffing-box. No. 988,730; Apr. 4; Sp. p. 957; Gaz. vol. 165; p. 152.
Mosley, William H., Toronto, Ontario, Canada. Device for the removal of artificial-post-tooth crowns. No. 996,113; June 27; Sp. p. 4388; Gaz. vol. 167; p. 794.
Moss, Dexter W., and C. E. Olschner, Beaumont, Tex. Train-pipe coupling. No. 988,206; Mar. 28; Sp. p. 5203; Gaz. vol. 164; p. 923.
Moss, Eric, Kingsburg, Cal. Electric cook-stove. No. 1,009,549; Nov. 21; Sp. p. 4295; Gaz. vol. 172; p. 739.
Moss, George A., San Francisco, Cal. Glove attachment. No. 986,491; Mar. 14; Sp. p. 1566; Gaz. vol. 164; p. 279.
Moss, Jacques A., Rochester, N. Y. Packing-case. No. 999,394; Aug. 1; Sp. p. 402; Gaz. vol. 169; p. 71.
Moss, James E., Decatur, Nebr. Currency-rack. No. 981,461; Jan. 10; Sp. p. 2935; Gaz. vol. 162; p. 475.
Moss, Louis N., New York, N. Y. Coasting device for purposes of amusement. No. 981,462; Jan. 10; Sp. p. 2937; Gaz. vol. 162; p. 476.
Moss, Louis N., New York, N. Y. Cloth-measuring machine. No. 1,005,453; Oct. 10; Sp. p. 1925; Gaz. vol. 171; p. 340.
Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Governing mechanism for gas-turbines. No. 1,000,968; Aug. 15; Sp. p. 3767; Gaz. vol. 169; p. 673.
Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Regenerator. No. 1,000,969; Aug. 15; Sp. p. 3770; Gaz. vol. 169; p. 673.
Moss, Thomas, Valley Mills, Ind. Carton-sealing machine. No. 990,491; Apr. 25; Sp. p. 4787; Gaz. vol. 165; p. 837.
Moss, Thomas, Portsmouth, and W. Moss, Wigan, England. Fluid-pressure apparatus. No. 998,376; July 18; Sp. p. 3884; Gaz. vol. 168; p. 689.
Moss, William. (See Moss, Thomas and W.)

Alphabetical list of patentees—Continued.

Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Braider-spool. No. 995,801; June 20; Sp. p. 3741; Gaz. vol. 167; p. 652.
Mossberg, Frank, Attleboro, Mass., assignor to Frank Mossberg Company. Loom-beam. No. 1,004,584; Oct. 3; Sp. p. 73; Gaz. vol. 171; p. 14.
Mossman, Isaac J., Tacoma, Wash. Railway-velocipede. No. 1,013,041; Dec. 26; Sp. p. 5892; Gaz. vol. 173; p. 1030.
Mossop, Isaac, Wiconisco, Pa. Drawer for stocking-driers. No. 1,013,042; Dec. 26; Sp. p. 5894; Gaz. vol. 173; p. 1031.
Mosteller, Dosier H., Chicago, Ill. Straw-holder. No. 997,149; July 4; Sp. p. 1169; Gaz. vol. 168; p. 188.
Mosteller, Dosier H., assignor to Mosteller Manufacturing Company, Chicago, Ill. Commodity-receptacle. No. 997,150; July 4; Sp. p. 1170; Gaz. vol. 168; p. 189.
Mosteller Manufacturing Company. (See Mosteller, Dosier H., assignor.)
Moszczenski, John B., New York, N. Y., assignor to Tartar Chemical Company, Jersey City, N. J. Manufacture of cream of tartar. No. 1,000,433; Aug. 15; Sp. p. 2604; Gaz. vol. 169; p. 485.
Mothershead, Sam, *et al.* (See Kenney, Frank, assignor.)
Motion Picture Patents Company. (See Edison, Thomas A., assignor.) (Reissue.)
Motor Car Co. (See Carter, Byron J., assignor.)
Motor car and Device Company. (See Rozier and Igou, assignors.)
Mott, Abram C., Jr., and J. Whitehead, assignors to Abram Cox Stove Company, Philadelphia, Pa. Molding-flask. No. 982,687; Jan. 24; Sp. p. 5497; Gaz. vol. 162; p. 948.
Mott, Augustus P., *et al.* (See Shank, Augustus W., assignor.)
Mott, Garret, Yonkers, assignor to The Unit Steel Cabinet Company, New York, N. Y. Rod-locking device for card-indexes and the like. No. 980,993; Jan. 10; Sp. p. 1867; Gaz. vol. 162; p. 311.
Mott, George H., *et al.* (See Eastman, Tarleton B., assignor.)
Motz, Dorace E., and F. B. Hatfield, La Jara, Colo. Automatic telegraph-key closer. No. 1,002,735; Sept. 5; Sp. p. 1246; Gaz. vol. 170; p. 185.
Motz, Frederick J., New York, N. Y. Making paper boxes. No. 996,785; July 4; Sp. p. 367; Gaz. vol. 168; p. 63.
Motz, Frederick J., Cincinnati, Ohio. Textile-board. No. 1,012,267; Dec. 19; Sp. p. 4205; Gaz. vol. 173; p. 721.
Moudy, Wilson B. (See Elder and Moudy.)
Moul, Martin, Hanover, Pa. Machine for making bungs. No. 982,980; Jan. 31; Sp. p. 6151; Gaz. vol. 162; p. 1074.
Moulding, William. (See Watson and Moulding.)
Moulin, Marcel A., Paris, France. Liquid-piston vacuum-pump. No. 1,000,286; Aug. 8; Sp. p. 2272; Gaz. vol. 169; p. 402.
Moulton, Luther V., and P. A. Jones, Grand Rapids, Mich. Starter for internal-combustion engines. No. 1,004,061; Sept. 26; Sp. p. 4134; Gaz. vol. 170; p. 743.
Mounier, Joseph, St. Etienne, Loire, France. Prop. No. 985,921; Mar. 7; Sp. p. 348; Gaz. vol. 164; p. 56.
Mount, Austin, Erie, Pa. Bullet-catcher. No. 1,010,514; Dec. 5; Sp. p. 262; Gaz. vol. 173; p. 41.
Mount, Charles, Carman, Ohio. Seal. No. 1,011,231; Dec. 12; Sp. p. 1871; Gaz. vol. 173; p. 323.
Mount, Charles L., Carman, Ohio. Bottle attachment. No. 1,007,887; Nov. 7; Sp. p. 547; Gaz. vol. 172; p. 83.
Mount, Lambton L., Bayswater, London, England. Furnace for melting metals, glass, and the like. No. 988,131; Mar. 28; Sp. p. 5062; Gaz. vol. 164; p. 899.
Mount, William D., Saltville, Va. Car and vehicle loader. No. 985,436; Feb. 28; Sp. p. 4735; Gaz. vol. 163; p. 842.
Mountain, James H., deceased; L. Mountain, administratrix, Terre Haute, Ind. Trolley for electric railways. No. 997,576; July 11; Sp. p. 2028; Gaz. vol. 168; p. 362.
Mountain, Laura, administratrix. (See Mountain, James H.)
Mournian, Robert O., Bethany, Cal. Fish net and trap. No. 991,740; May 9; Sp. p. 1965; Gaz. vol. 166; p. 353.
Mowbray, James W., Gleichen, Alberta, Canada, assignor of one-half to William R. McKie. Thermal electric fire-alarm. No. 994,026; May 30; Sp. p. 6840; Gaz. vol. 166; p. 1228.
Mowbray, John E., Philadelphia, Pa. Centerboard. No. 995,078; June 13; Sp. p. 2168; Gaz. vol. 167; p. 376.
Mowen, John H., New York, assignor to New York and Brooklyn Casket Co., Brooklyn, N. Y. Casket. No. 995,549; June 20; Sp. p. 3165; Gaz. vol. 167; p. 563.
Mowen, Robert J., Henderson, Ky. Crate. No. 992,896; May 23; Sp. p. 4430; Gaz. vol. 166; p. 813.
Mower, Fred G., assignor to Goodell Company, Antrim, N. H. Orange-parer. No. 1,008,555; Nov. 14; Sp. p. 2093; Gaz. vol. 172; p. 358.
Mowers, Frank A., Fennville, Mich. Folding nursery-chair. No. 1,005,737; Oct. 10; Sp. p. 2556; Gaz. vol. 171; p. 439.
Mowers, William E., York, Pa. Bottle-stopper measure. No. 993,269; May 23; Sp. p. 5221; Gaz. vol. 166; p. 936.
Mowlds, Thomas D., Bala, Pa. Process and machine for channeling stone. No. 1,012,569; Dec. 19; Sp. p. 4806; Gaz. vol. 173; p. 825.
Mowry, Arthur P. (See Jaques, Fernando O., Jr., assignor.)
Mowry, George, Derry, Pa. Sand-mill. No. 1,005,738; Oct. 10; Sp. p. 2557; Gaz. vol. 171; p. 439.
Mowry, Jacob H., Nezperce, and A. M. Anderson, Moscow, Idaho. Railway-tie. No. 987,252; Mar. 21; Sp. p. 3154; Gaz. vol. 164; p. 571.
Mowry, Joseph B., Cleveland, Ohio. Quick-acting water-heater. No. 989,025; Apr. 11; Sp. p. 1542; Gaz. vol. 165; p. 270.
Moxey, Frank. (See Bardon, John J., assignor.)
Moxley, Frances M. (See Robinson, James H., assignor.)
Moyer, Harvey A., *et al.* (See Kavle, Oscar C., assignor.)
Moyer, Harvey A. (See McAll, Edward S., assignor.)
Moyer, Harvey A., and O. C. Kavle, assignors of one-half to said Moyer and one-half to E. G. Latta, Syracuse, N. Y. Type-writing machine. No. 991,166; May 2; Sp. p. 721; Gaz. vol. 166; p. 122.
Moyer, Robley D., assignor of one-half to H. B. Riden, Tampa, Fla. Electric switch device. No. 990,285; Apr. 25; Sp. p. 4280; Gaz. vol. 165; p. 763.
Moylan, Alexander M. (See Tracy and Moylan.)
Moynihan, Jeremiah A., Minneapolis, Minn. Car-replacer. No. 987,641; Mar. 21; Sp. p. 3945; Gaz. vol. 164; p. 703.
Moynihan, Jeremiah A., Minneapolis, Minn. Car-replacer. No. 1,001,213; Aug. 22; Sp. p. 4339; Gaz. vol. 169; p. 790.
Moys, Hubert E. (See Moys, Vivian T. and H. E.)
Moys, Vivian T. and H. E., Cradock, Cape Colony. Matchbox. No. 988,132; Mar. 28; Sp. p. 5066; Gaz. vol. 164; p. 899.
Moys, Vivian T. and H. E., Cradock, Cape Colony. Liquid-dispensing device. No. 1,009,550; Nov. 21; Sp. p. 4296; Gaz. vol. 172; p. 740.
Mrksity, Szava, Peoria, Ill. Egg-holder. No. 999,054; July 25; Sp. p. 5393; Gaz. vol. 168; p. 960.
Mroczkowski, Gabryel, Chicago, Ill. Folding umbrella. No. 991,632; May 9; Sp. p. 1730; Gaz. vol. 166; p. 318.
Mroczkowski, Gabryel, Chicago, Ill. Folding umbrella. No. 1,002,736; Sept. 5; Sp. p. 1247; Gaz. vol. 170; p. 186.
Mroczkowski, Zygmunt, Chicago, Ill. Folding umbrella. No. 1,009,680; Nov. 21; Sp. p. 4531; Gaz. vol. 172; p. 780.
Mroczkowski, Zygmunt, Chicago, Ill. Folding umbrella. No. 1,009,925; Nov. 28; Sp. p. 5039; Gaz. vol. 172; p. 909.
Mt. Holyoke Tissue Mills. (See Avery, Henry C., assignor.)
Mucklé, John S., Philadelphia, Pa. Interlocking mechanism for elevators. No. 981,463; Jan. 10; Sp. p. 2938; Gaz. vol. 162; p. 476.
Muckley, Ferdinand, Easton, Pa. Bag-tying device. No. 986,079; Mar. 7; Sp. p. 691; Gaz. vol. 164; p. 111.
Muckley, Ferdinand, Easton, Pa. Bag-filling machine. No. 993,188; May 23; Sp. p. 5050; Gaz. vol. 166; p. 911.
Mudd, Don A., Boulder, Colo. Automatic pipe-cutting machine. No. 986,937; Mar. 14; Sp. p. 2495; Gaz. vol. 164; p. 432.
Mudra, Bohumil R., Chicago, Ill. Cement drainage-spout for buildings. No. 1,006,775; Oct. 24; Sp. p. 4873; Gaz. vol. 171; p. 865.
Muehleisen, Carl, Berlin, Germany. Matrix-setting machine. No. 1,008,186; Nov. 7; Sp. p. 1146; Gaz. vol. 172; p. 189.
Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Composing and assembling mechanism of line-casting machines. No. 992,030; May 9; Sp. p. 2530; Gaz. vol. 166; p. 450.
Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Line-casting machine. No. 992,031; May 9; Sp. p. 2532; Gaz. vol. 166; p. 450.
Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Distributing mechanism of line-casting machines. No. 992,032; May 9; Sp. p. 2534; Gaz. vol. 166; p. 451.
Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Clutch mechanism. No. 992,033; May 9; Sp. p. 2535; Gaz. vol. 166; p. 451.
Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Distributing mechanism of matrix-composing and line-casting machines. No. 1,008,981; Nov. 14; Sp. p. 3012; Gaz. vol. 172; p. 502.
Muehleisen, Carl, Berlin, Germany, assignor to Mergenthaler Linotype Company. Typographical line-casting machine. No. 1,009,851; Nov. 28; Sp. p. 4902; Gaz. vol. 172; p. 886.
Muehlmatt, Adolph, Newport, Ky. Mechanical opening and closing spring-chuck. No. 985,536; Feb. 28; Sp. p. 4966; Gaz. vol. 163; p. 879.
Muehr, Richard and R., Weimar, Tex. Shipping-crate. No. 986,587; Mar. 14; Sp. p. 1764; Gaz. vol. 164; p. 312.
Muehr, Rudolph. (See Muehr, Richard and R.)
Mueller, Adolph, *et al.*, executors. (See Mueller, Henry.)
Mueller, Adolph, *et al.*, executors. (See Mueller, Philip and H.)
Mueller, Adolph, *et al.*, executors. (See Mueller and Schuermann.)
Mueller Brothers Art and Manufacturing Company. (See Mueller, Jacob, assignor.)

Alphabetical list of patentees—Continued.

Mueller, Eduard F., assignor of one-half to F. H. Hitchcock, Caldwell, Tex. Engraver's tool. No. 989,794; Apr. 18; Sp. p. 3231; Gaz. vol. 165; p. 565.
Mueller, Engelbert and E. E., Pittsburgh, Pa. Hinge-joint for artificial limbs and other purposes. No. 1,008,048; Nov. 7; Sp. p. 863; Gaz. vol. 172; p. 139.
Mueller, Eugene E. (See Mueller, Engelbert and E. E.)
Mueller, Frederick R., and L. Rehthaler, Chicago, Ill. Surgical instrument. No. 1,002,427; Sept. 5; Sp. p. 568; Gaz. vol. 170; p. 80.
Mueller, George, assignor to F. Barrow, Chicago, Ill. Springwork. No. 995,277; June 13; Sp. p. 2544; Gaz. vol. 167; p. 440.
Mueller, George, assignor to F. Barrow, Chicago, Ill. Rocking-chair. No. 1,000,748; Aug. 15; Sp. p. 3308; Gaz. vol. 169; p. 597.
Mueller, Henry. (See Mueller, Philip and H.)
Mueller, Henry, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Cock or faucet. No. 982,981; Jan. 31; Sp. p. 6156; Gaz. vol. 162; p. 1075.
Mueller, Henry, deceased; O. B. and A. Mueller, executors, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Strainer for faucets. No. 982,982; Jan. 31; Sp. p. 6158; Gaz. vol. 162; p. 1075.
Mueller, Henry, deceased; O. B. and A. Mueller, executors, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Service T and cock. No. 993,093; May 23; Sp. p. 4857; Gaz. vol. 166; p. 882.
Mueller, Henry, and A. C. Schuermann; O. B. and A. Mueller, executors of said Henry Mueller, deceased, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Self-closing basin-cock. No. 1,009,681; Nov. 21; Sp. p. 4532; Gaz. vol. 172; p. 780.
Mueller, Jacob, assignor to Mueller Brothers Art and Manufacturing Company, Chicago, Ill. Machine for making frame-bodies. No. 981,215; Jan. 10; Sp. p. 2358; Gaz. vol. 162; p. 389.
Mueller, John, Cleveland, Ohio. Handle for self-closing faucets. No. 1,001,672; Aug. 29; Sp. p. 5278; Gaz. vol. 169; p. 976.
Mueller, Joseph J., Gold Rock, Ontario, Canada. Fish-hook. No. 989,392; Apr. 11; Sp. p. 2335; Gaz. vol. 165; p. 395.
Mueller, Max, St. Louis, Mo. Tile-cutting table. No. 1,004,062; Sept. 26; Sp. p. 4136; Gaz. vol. 170; p. 743.
Mueller, Ora B., *et al.*, executors. (See Mueller, Henry.)
Mueller, Ora B., *et al.*, executors. (See Mueller, Philip and H.)
Mueller, Ora B., *et al.*, executors. (See Mueller and Schuermann.)
Mueller, Oscar B., New Rochelle, N. Y., assignor to The National Water Main Cleaning Company. Device for inserting pipe-cleaning machines into pipe-lines. No. 1,006,261; Oct. 17; Sp. p. 3735; Gaz. vol. 171; p. 656.
Mueller, Oscar B., New Rochelle, N. Y., and B. B. Hodgman, East Orange, N. J., assignors to National Water Main Cleaning Company. Pipe-fitting. No. 1,006,260; Oct. 17; Sp. p. 3734; Gaz. vol. 171; p. 656.
Mueller, Otto H., Camberwell, England, assignor to Henry R. Worthington. Cooling-tower. No. 989,631; Apr. 18; Sp. p. 2878; Gaz. vol. 165; p. 508.
Mueller, Otto H., Camberwell, England, assignor to Henry R. Worthington. Condenser system. No. 1,012,268; Dec. 19; Sp. p. 4206; Gaz. vol. 173; p. 722.
Mueller, Peter J., Maquoketa, Iowa. Driving mechanism. No. 989,180; Apr. 11; Sp. p. 1865; Gaz. vol. 165; p. 323.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Pipe connection. No. 980,880; Jan. 3; Sp. p. 1504; Gaz. vol. 162; p. 241.
Mueller, Philip, assignor to The H. Mueller Maufacturing Company, Decatur, Ill. Adjustable flange. No. 992,974; May 23; Sp. p. 4608; Gaz. vol. 166; p. 841.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Service-T. No. 992,975; May 23; Sp. p. 4610; Gaz. vol. 166; p. 841.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Ventilating-cap. No. 993,705; May 30; Sp. p. 6198; Gaz. vol. 166; p. 1120.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Handle for cocks, faucets, and valves. No. 995,027; June 13; Sp. p. 2048; Gaz. vol. 167; p. 358.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Applying coupling-nuts to shouldered nipples. No. 998,587; July 18; Sp. p. 4310; Gaz. vol. 168; p. 761.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Adjustable sleeve-nut and flange. No. 999,332; Aug. 1; Sp. p. 265; Gaz. vol. 169; p. 49.
Mueller, Philip, assignor to The H. Mueller Manufacturing Company, Decatur, Ill. Service-box section. No. 1,000,108; Aug. 8; Sp. p. 1894; Gaz. vol. 169; p. 341.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Bath or basin fitting. No. 1,000,538; Aug. 15; Sp. p. 2832; Gaz. vol. 169; p. 521.
Mueller, Philip, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Iron-body cock. No. 1,002,428; Sept. 5; Sp. p. 571; Gaz. vol. 170; p. 81.
Mueller, Philip, and A. C. Schuermann, assignors to The H. Mueller Manufacturing Company, Decatur, Ill. Pipe-tapping machine. No. 990,580; Apr. 25; Sp. p. 4971; Gaz. vol. 165; p. 867.
Mueller, Philip, and A. C. Schuermann, assignors to The H. Mueller Manufacturing Company, Decatur, Ill. Meter-bracket. No. 993,614; May 30; Sp. p. 5982; Gaz. vol. 166; p. 1088.
Mueller, Philip, and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Meter-hanger. No. 1,006,396; Oct. 17; Sp. p. 4029; Gaz. vol. 171; p. 703.
Mueller, Philip, and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Meter-hanger. No. 1,006,397; Oct. 17; Sp. p. 4032; Gaz. vol. 171; p. 703.
Mueller, Philip, and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Meter-hanger. No. 1,006,398; Oct. 17; Sp. p. 4036; Gaz. vol. 171; p. 703.
Mueller, Philip, and A. C. Schuermann, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Sanitary drinking-fountain. No. 1,013,043; Dec. 26; Sp. p. 5896; Gaz. vol. 173; p. 1031.
Mueller, Philip, and H. Mueller, deceased; O. B. Mueller and A. Mueller, executors, assignors to H. Mueller Manufacturing Company, Decatur, Ill. Combined hydrant and stop and waste cock. No. 998,586; July 18; Sp. p. 4309; Gaz. vol. 168; p. 761.
Mueller, Theodore M., assignor to Pittsfield Spark Coil Company, Dalton, Mass. Ignition system. No. 988,892; Apr. 4; Sp. p. 1263; Gaz. vol. 165; p. 202.
Mueller, William C. (See Ganzhorn and Mueller.)
Mugdan, Martin. (See Hoefer and Mugdan.)
Muggli, Jacob, Zurich, Switzerland. Machine for cultivating land. No. 996,998; July 4; Sp. p. 860; Gaz. vol. 168; p. 138.
Mühe, Richard, Bous-on-the-Saar, Germany. Mandrel for rolling-mills. No. 1,012,413; Dec. 19; Sp. p. 4500; Gaz. vol. 173; p. 771.
Muhl, Ferdinand, Pittsburgh, Pa. Lawn-mower sharpener. No. 1,004,894; Oct. 3; Sp. p. 765; Gaz. vol. 171; p. 123.
Muhleisen, Henry W., assignor to E. Schmitz, San Francisco, Cal. Drilling apparatus. No. 994,866; June 13; Sp. p. 1700; Gaz. vol. 167; p. 304.
Muhlfeld, Frank J., New York, N. Y. Napping hat-bodies jointly. No. 1,001,296; Aug. 22; Sp. p. 4505; Gaz. vol. 169; p. 818.
Muhlfeld, John E., Baltimore, Md. Journal-bearing for car and other axles. No. 985,437; Feb. 28; Sp. p. 4737; Gaz. vol. 163; p. 842.
Muhlfeld, John E., Baltimore, Md. Journal-bearing for car and other axles. No. 985,438; Feb. 28; Sp. p. 4739; Gaz. vol. 163; p. 843.
Muhlfeld, John E., Baltimore, Md. Journal-bearing. No. 992,378; May 16; Sp. p. 3346; Gaz. vol. 166; p. 602.
Muir, Benjamin B., Hamilton, Ontario, Canada. Street-car switch. No. 995,364; June 13; Sp. p. 2758; Gaz. vol. 167; p. 470.
Muirhead, James, Pawtucket, R. I. Water-heater and steam-generator. No. 1,012,895; Dec. 26; Sp. p. 5565; Gaz. vol. 173; p. 981.
Muirhead, William, Jr., New York, N. Y. Two-step knife-switch. No. 1,005,060; Oct. 3; Sp. p. 1060; Gaz. vol. 171; p. 177.
Mulconroy, James J., and E. S. Morris, Philadelphia, Pa. Boot or shoe. No. 992,515; May 16; Sp. p. 3625; Gaz. vol. 166; p. 651.
Mulconroy, James J., and E. S. Morris, Philadelphia, Pa. Flexible tube. No. 992,516; May 16; Sp. p. 3627; Gaz. vol. 166; p. 651.
Mulconroy, James J., and E. S. Morris, Philadelphia, Pa. Armored hose. No. 996,999; July 4; Sp. p. 862; Gaz. vol. 168; p. 138.
Muldoon, Harry J., *et al.* (See Hachmann and McFee, assignors.)
Muldoon, John, Lakewood, assignor of one-half to R. C. Garland, Providence, R. I. Stamp or label affixing machine. No. 1,007,595; Oct. 31; Sp. p. 6690; Gaz. vol. 171; p. 1205.
Muldoon, John J., Rochester, Pa. Glass-mold. No. 985,439; Feb. 28; Sp. p. 4741; Gaz. vol. 163; p. 843.
Mulford, Logan W., Narberth, assignor to American Bar Lock Company, Philadelphia, Pa. Sidewalk, floor, vault, and roof light construction. No. 995,079; June 13; Sp. p. 2170; Gaz. vol. 167; p. 376.
Mulford, Ora J. (See King, Charles B., assignor.)
Mulhall, James J., Albany, N. Y. Water and gas meter. No. 995,278; June 13; Sp. p. 2545; Gaz. vol. 167; p. 441.
Mülhens & Kropff. (See Hudson, Sarah J., assignor.)
Mulholland, Hugh, New York, N. Y. Vehicle-wheel tire. No. 990,664; Apr. 25; Sp. p. 5160; Gaz. vol. 165; p. 895.
Mulholland, Hugh, New York, N. Y., and C. G. West, Greenwich, Conn., assignors, by mesne assignments, to Multicolor Electric Sign Co., New York, N. Y. Illuminated sign. No. 1,004,585; Oct. 3; Sp. p. 75; Gaz. vol. 171; p. 14.
Mulholland, Mathew, Cleveland, Ohio. Car-door fastener. No. 1,003,642; Sept. 19; Sp. p. 3171; Gaz. vol. 170; p. 571.

Alphabetical list of patentees—Continued.

Mull, Oscar G., Quincy, Ill. Window-tent. No. 1,009,682; Nov. 21; Sp. p. 4535; Gaz. vol. 172; p. 781.
Mull, Theodore, Old Fort, Ohio. Car-door hanger. No. 998,198; July 18; Sp. p. 3456; Gaz. vol. 168; p. 623.
Mullaly, Margaret. (See Heuchert, Jakob, assignor.)
Mullendore, Erd C. (See Jacobs, Olaus B., assignor.)
Müller, Adolph. (See Schröder and Müller.)
Müller, Alfred. (See Schweinitz, Hans G. G. von, assignor.)
Müller, August. (See Klehe and Müller.)
Müller, Carl A., and F. Anger, Teplitz, Austria-Hungary, assignors to Schubert & Salzer Maschinenfabrik A. G., Chemnitz, Germany. Machine for making fringes. No. 1,006,776; Oct. 24; Sp. p. 4873; Gaz. vol. 171; p. 866.
Müller, Emil, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Breech-block mechanism of guns. No 1,003,288; Sept. 12; Sp. p. 2425; Gaz. vol. 170; p. 417.
Muller, Ephraim, Oakland, Cal. Motor-cycle frame. No. 984,018; Feb. 14; Sp. p. 1674; Gaz. vol. 163; p. 289.
Müller, Erich. (See Nieske and Müller.)
Müller, Frank X., assignor of one-half to G. Hoffman, Buffalo, N. Y. Tube-coupling. No. 996,114; June 27; Sp. p. 4389; Gaz. vol. 167; p. 795.
Müller, Franz, Westend-Charlottenburg, assignor to T. Teichgraeber, Berlin, Germany. Yohimbin preparations and manufacturing same. No. 996,274; June 27; Sp. p. 4782; Gaz. vol. 167; p. 848.
Muller, Frederick W., Jr., Galveston, Tex. Combined ruler and blotter. No. 999,177; July 25; Sp. p. 5605; Gaz. vol. 168; p. 997.
Müller, Georg, Schwäbisch-Gmünd, Germany. Electrical safety-fuse. No. 1,011,232; Dec. 12; Sp. p. 1872; Gaz. vol. 173; p. 324.
Muller, George J. (See Glaser and Muller.) (Reissue.)
Müller, Johann C., Dresden, Germany. Making mouthpiece-tubes. No. 985,365; Feb. 28; Sp. p. 4561; Gaz. vol. 163; p. 818.
Muller, John F., New Orleans, La. Water-heating apparatus. No. 982,844; Jan. 31; Sp. p. 5848; Gaz. vol. 162; p. 1030.
Muller, John F., New Orleans, La. Pipe and fitting. No. 997,691; July 11; Sp. p. 2275; Gaz. vol. 168; p. 403.
Müller, Karl O., West Hoboken, and P. Fuegmann, Union Hill, N. J. Vessel-propeller. No. 1,009,333; Nov. 21; Sp. p. 3815; Gaz. vol. 172; p. 664.
Müller, Philipp, Cannstatt, Germany. Water-purifying apparatus for steam-boilers. No. 988,014; Mar. 28; Sp. p. 4830; Gaz. vol. 164; p. 860.
Müller, Richard. (See Blagden and Müller.)
Müller, Robert, Essen-on-the-Ruhr, Germany. Gas-burner for coke-ovens. No. 982,983; Jan. 31; Sp. p. 6160; Gaz. vol. 162; p. 1076.
Muller, Walter J. (See Bush and Cole, assignors.)
Müller, Wilhelm A. T., Berlin-Steglitz, Germany. Means for operating electric motors driving motor-trains. No. 992,682; May 16; Sp. p. 3962; Gaz. vol. 166; p. 707.
Mullihan, George D. (See Smith and Mullihan.)
Mullineaux, Edgar J., assignor of one-fourth to W. N. Cheney and one-fourth to E. H. Platt, Sneffels, Colo. Cream-removing device. No. 984,838; Feb. 21; Sp. p. 3435; Gaz. vol. 163; p. 606.
Mullinnix, John C., Cleveland, Ohio. Drill-press. No. 982,740; Jan. 24; Sp. p. 5618; Gaz. vol. 162; p. 965.
Mulloy, John D., Portland, Oreg. Prescription-file. No. 991,348; May 2; Sp. p. 1119; Gaz. vol. 166; p. 187.
Mulloy, Patrick J., Grand Forks, N. D. Grain and hay loading and transporting machine. No. 1,002,737; Sept. 5; Sp. p. 1249; Gaz. vol. 170; p. 186.
Mülmann, Otto Von. (See Jänich, Friedrich G., assignor.)
Mulock, William R., Winnipeg, Manitoba, Canada. Fountain-pen. No. 996,937; July 4; Sp. p. 707; Gaz. vol. 168; p. 115.
Mulroney, Charles H., and I. B. Manning, Brown Station, N. Y. Detachable shovel-tooth point. No. 992,034; May 9; Sp. p. 2536; Gaz. vol. 166; p. 451.
Multi Mfg. Co. (See Lend, John, assignor.)
Multi Speed Shutter Company, The. (See Dietz, Gustav, assignor.)
Multicolor Electric Sign Co. (See Mulholland and West, assignors.)
Multipost Company. (See Schweiger and Straight, assignors.)
Mulvaney, Henry C., Los Angeles, Cal. Wall-bed. No. 1,001,214; Aug. 22; Sp. p. 4341; Gaz. vol. 169; p. 790.
Mulvey, Arthur D. (See Gaertner, Ralph A., assignor.)
Mulvihill, David J. (See Mulvihill and Rooney.)
Mulvihill, Maurice M. and D. J., and J. P. and M. L. Rooney, Renovo, Pa. Valve-gear. No. 980,820; Jan. 3; Sp. p. 1376; Gaz. vol. 162; p. 220.
Mumaw, John H., assignor of one-third to A. J. Dysle, Canton, Ohio. Shoe-fastener. No. 994,187; June 6; Sp. p. 178; Gaz. vol. 167; p. 31.
Mumford, Edgar H., Philadelphia, Pa. Jolt-ramming molds. No. 980,994; Jan. 10; Sp. p. 1872; Gaz. vol. 162; p. 311.
Mumford, Joseph A., Roslyn, N. Y., assignor, by mesne assignments, to Robb-Engineering Company, Limited, Amherst, Canada. Steam-boiler. No. 1,003,776; Sept. 19; Sp. p. 3474; Gaz. vol. 170; p. 618.
Mummert, Ervin S., assignor to Mummert, Wolf & Dixon Co., Hanover, Pa. Grinding-machine for sharpening edged tools. No. 987,589; Mar. 21; Sp. p. 3841; Gaz. vol. 164; p. 685.
Mummert, Wolf & Dixon Co. (See Mummert, Ervin S., assignor.)
Mummery, Edwin G., Detroit, Mich. Hydrocarbon-burner. No. 992,798; May 23; Sp. p. 4204; Gaz. vol. 166; p. 777.
Muncaster, Walter J., Cumberland, Md. Steady-rest for shafting-lathes. No. 984,288; Feb. 14; Sp. p. 2260; Gaz. vol. 163; p. 382.
Münch, Eduard, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. 4.4'-Dibrom-diphenyl-disulfid-2.2'-dicarboxylic acid and obtaining such bodies. No. 1,003,289; Sept. 12; Sp. p. 2427; Gaz. vol. 170; p. 418.
Munchausen, Arthur, Independence, La. Rail-joint. No. 997,932; July 11; Sp. p. 2857; Gaz. vol. 168; p. 488.
Munchausen, Arthur, Independence, La. Berry-carrier. No. 1,005,998; Oct. 17; Sp. p. 3132; Gaz. vol. 171; p. 563.
Muncie Wheel Company. (See McLaughlin, Mills, and Bannister, assignors.)
Mundale, Edward J., Frost, Minn. Excavating-machine. No. 993,706; May 30; Sp. p. 6199; Gaz. vol. 166; p. 1121.
Munday, John C., Dayton, Ohio. Top attachment for automobiles. No. 1,008,666; Nov. 14; Sp. p. 2354; Gaz. vol. 172; p. 397.
Munden, William R., and L. J. Bosworth, Albert Lea, Minn. Door-hanger. No. 1,007,228; Oct. 31; Sp. p. 5907; Gaz. vol. 171; p. 1078.
Mundhenk, Clement L. V., and R. T. Niswonger, Dayton, Ohio; said Niswonger assignor to said Mundhenk. Self-heating iron. No. 985,922; Mar. 7; Sp. p. 350; Gaz. vol. 164; p. 57.
Mundorf, Emil, Aix-la-Chapelle, Germany. Planetary napping-machine. No. 1,002,738; Sept. 5; Sp. p. 1253; Gaz. vol. 170; p. 187.
Mundy, Arthur J., Boston, H. B. Gale, Natick, and F. M. Dewing, Boston, Mass., assignors to Submarine Signal Company, Waterville, Me. Automatic means for producing sound-vibrations in water. No. 1,003,643; Sept. 19; Sp. p. 3173; Gaz. vol. 170; p. 572.
Mundy, William J., assignor of one-third to J. J. Costello and one-third to J. J. McAtee, Shenandoah, Pa. Nut-lock. No. 992,136; May 9; Sp. p. 2751; Gaz. vol. 166; p. 487.
Munford, Martha W., Hawkinsville, Ga. Attachment for backs of car-seats. No. 1,013,044; Dec. 26; Sp. p. 5899; Gaz. vol. 173; p. 1032.
Munn, Alexander M., Nebraska City, Nebr. Excavating-machine. No. 998,029; July 18; Sp. p. 3099; Gaz. vol. 168; p. 564.
Munn, Edward A., and O. L. Plumtree; said Plumtree assignor to said Munn, Chicago, Ill. Distributing-hopper. No. 983,923; Feb. 14; Sp. p. 1463; Gaz. vol. 163; p. 258.
Munn, Walter R., Battle Creek, Mich. Cushioning device. No. 993,394; May 30; Sp. p. 5493; Gaz. vol. 166; p. 1012.
Munn, William, assignor to Alaska Packers Association, San Francisco, Cal. Fish-cleaner. No. 981,300; Jan. 10; Sp. p. 2585; Gaz. vol. 162; p. 420.
Munro, Daniel, *et al.* (See Kingsley, Candide, assignor.)
Munson, C. W., trustee. (See Munson, Corydon W., assignor.)
Munson, Charles M. (See Perkins, Putnam, and Munson.)
Munson, Corydon W., Toledo, Ohio, assignor, by mesne assignments, to C. W. Munson, trustee. Smelting-furnace. No. 983,833; Feb. 7; Sp. p. 1242; Gaz. vol. 163; p. 198.
Munson, Marion J., and S. V. Whitaker, Stockport, Iowa. Railway-tie. No. 989,393; Apr. 11; Sp. p. 2337; Gaz. vol. 165; p. 395.
Munson, Sweney, Fowler, Colo. Superheater. No. 1,011,475; Dec. 12; Sp. p. 2413; Gaz. vol. 173; p. 412.
Munthe, Christoffer. (See Millington and Munthe.)
Munthe, Christoffer, and D. Millington, Friedenau, near Berlin, Germany. Device for feeding material in turret-lathes and the like. No. 998,377; July 18; Sp. p. 3888; Gaz. vol. 168; p. 690.
Munton, Frederick T. (See Malcolm and Munton.)
Munz, Charles W. (See Graves, George W., assignor.)
Munz, Charles W., Detroit, Mich. Round-top extension-table. No. 991,875; May 9; Sp. p. 2230; Gaz. vol. 166; p. 398.
Munz, Charles W., Detroit, Mich. Round-top extension-table. No. 993,539; May 30; Sp. p. 5813; Gaz. vol. 166; p. 1061.
Murawski, Adolf, Springfield, Mass. Lock. No. 991,796; May 9; Sp. p. 2062; Gaz. vol. 166; p. 371.
Murch, George. (See Baker, Burton L., assignor.)
Murch, George, Capetown, Cape Colony. Machine for dealing playing-cards. No. 999,670; Aug. 1; Sp. p. 933; Gaz. vol. 169; p. 163.
Murchie, James, Traverse City, Mich. Can-opener. No. 989,181; Apr. 11; Sp. p. 1867; Gaz. vol. 165; p. 324.
Murchison, J. W., *et al.* (See Briggs, William C., assignors.)
Murchison, J. W., *et al.* (See Briggs and Williams, assignors.)

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Murdick, Israel H., and C. J. Garey, Benton Harbor, Mich. Monkey-wrench. No. 1,009,683; Nov. 21; Sp. p. 4537; Gaz. vol. 172; p. 781.
Murdock, Charles N. (See Brooks, Silenus D., assignor.)
Murdock, Charles R. (See Mayle, Murdock, and Belknap.)
Murdock, Edward J., assignor to American Lock Nut Company, Chicago, Ill. Lock-nut. No. 986,492; Mar. 14; Sp. p. 1567; Gaz. vol. 164; p. 279.
Murdock & Geb Company. (See Murdock, Thomas J., assignor.)
Murdock, George F., Wellsville, Ohio. Nut-lock. No. 995,169; June 13; Sp. p. 2343; Gaz. vol. 167; p. 405.
Murdock, Gilford S., Detroit, Mich. Brush-stapling machine. No. 983,924; Feb. 14; Sp. p. 1464; Gaz. vol. 163; p. 258.
Murdock, Gilford S., Detroit, Mich. Brush-machine. No. 1,001,550; Aug. 22; Sp. p. 5005; Gaz. vol. 169; p. 903.
Murdock, Hamilton. (See Williamson, John C., assignor.)
Murdock, Henry D., Scottburg, Ind. Overhead trolley. No. 989,394; Apr. 11; Sp. p. 2339; Gaz. vol. 165; p. 395.
Murdock, John F., Grapeland, Tex. Churn-motor. No. 1,010,299; Nov. 28; Sp. p. 5818; Gaz. vol. 172; p. 1036.
Murdock, Joseph F., Dunlap, Wash. Freight-transhipping apparatus. No. 983,301; Feb. 7; Sp. p. 95; Gaz. vol. 163; p. 17.
Murdock, Robert L., Bellevue, Pa., assignor to McKinney Manufacturing Company. Hinge. No. 986,742; Mar. 14; Sp. p. 2085; Gaz. vol. 164; p. 365.
Murdock, Thomas J., assignor to Murdock & Geb Company, Franklin, Mass. Bobbin-holder. No. 998,857; July 25; Sp. p. 4943; Gaz. vol. 168; p. 889.
Murex Magnetic Company. (See Lockwood, Alfred A., assignor.)
Murgas, Joseph, Wilkes-Barre, Pa. Apparatus for producing electric oscillations. No. 1,001,975; Aug. 29; Sp. p. 5949; Gaz. vol. 169; p. 1078.
Murie, Robert M., Invercargill, New Zealand. Amusement apparatus. No. 1,005,061; Oct. 3; Sp. p. 1062; Gaz. vol. 171; p. 178.
Murnane, Daniel J., St. Louis, Mo. Store-front and show-window structure. No. 995,802; June 20; Sp. p. 3742; Gaz. vol. 167; p. 652.
Murnane, Daniel J., St. Louis, Mo. Store-front and show-window. No. 1,008,982; Nov. 14; Sp. p. 3013; Gaz. vol. 172; p. 502.
Murnane, Daniel J., St. Louis, Mo. Show-window structure. No. 1,008,983; Nov. 14; Sp. p. 3018; Gaz. vol. 172; p. 503.
Murnane, Daniel J., St. Louis, Mo. Store-front and show-window. No. 1,008,984; Nov. 14; Sp. p. 3022; Gaz. vol. 172; p. 503.
Murnane, Daniel J., St. Louis, Mo. Store-front and show-window structure. No. 1,008,985; Nov. 14; Sp. p. 3025; Gaz. vol. 172; p. 504.
Murnane, Daniel J., assignor to Zouri Manufacturing Company, St. Louis, Mo. Window structure. No. 1,008,667; Nov. 14; Sp. p. 2355; Gaz. vol. 172; p. 398.
Murnane, James C., *et al.* (See Hachmann and McFee, assignors.)
Murnane, James P., assignor, by mesne assignments, to Zouri Manufacturing Company, St. Louis, Mo. Window structure. No. 1,003,195; Sept. 12; Sp. p. 2224; Gaz. vol. 170; p. 382.
Murphey, Otis A., Atlanta, Ga. Hub-attaching device. No. 991,349; May 2; Sp. p. 1121; Gaz. vol. 166; p. 187.
Murphy, Clarence H., *et al.* (See Dunham, William L., assignor.)
Murphy, Daniel J., Lawrence, assignor to The Murphy-Tyler Co., Boston, Mass. Waterproofing soles of shoes. No. 980,664; Jan. 3; Sp. p. 1063; Gaz. vol. 162; p. 169.
Murphy, Edward E., Winchester, Mass. Safety-razor. No. 1,007,133; Oct. 31; Sp. p. 5692; Gaz. vol. 171; p. 1044.
Murphy, Edward E., Winchester, Mass., assignor to Puffer Manufacturing Company. Dispensing apparatus. No. 1,013,045; Dec. 26; Sp. p. 5900; Gaz. vol. 173; p. 1032.
Murphy, Edward S., Cleveland, Ohio Pump. No. 993,707; May 30; Sp. p. 6203; Gaz. vol. 166; p. 1121.
Murphy, Edward T. (See Lyle, Joel I., assignor.)
Murphy, Edward T. (See Lyle and Murphy.)
Murphy, Edward T., Philadelphia, Pa. Humidity-controlling apparatus. No. 1,012,414; Dec. 19; Sp. p. 4501; Gaz. vol. 173; p. 771.
Murphy, Everett N., *et al.*, executors. (See Murphy, John D.)
Murphy, George C., and J. J. Bolton, Owensboro, Ky. Advertising-poster. No. 985,274; Feb. 28; Sp. p. 4379; Gaz. vol. 163; p. 789.
Murphy, George F., Jersey City, N. J., assignor to Fuel Oil Engine Company, Providence, R. I. Internal-combustion engine. No. 984,695; Feb. 21; Sp. p. 3138; Gaz. vol. 163; p. 556.
Murphy, George F., Jersey City, N. J., assignor to Fuel Oil Engine Company, Providence, R. I. Fuel-injector for internal-combustion engines. No. 989,026; Apr. 11; Sp. p. 1544; Gaz. vol. 165; p. 270.
Murphy, George F., Providence, R. I., assignor to Fuel Oil Engine Company. Fuel-pump for explosion-engines. No. 989,027; Apr. 11; Sp. p. 1548; Gaz. vol. 165; p. 271.
Murphy, Gordon A., assignor of one-half to E. Hebern, Oakland, Cal. Pneumatic suspension for vehicles. No. 984,233; Feb. 14; Sp. p. 2140; Gaz. vol. 163; p. 362.
Murphy, Harry C. (See Carr and Murphy.)
Murphy, Howard M. P. (See Custer and Murphy.)
Murphy, Howard M. P., Scarsdale, assignor to L. Clark, New York, N. Y. Electromagnetic braking mechanism for elevator-cars. No. 981,671; Jan. 17; Sp. p. 3337; Gaz. vol. 162; p. 567.
Murphy, Howard M. P., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Governor for air-compressors. No. 988,648; Apr. 4; Sp. p. 769; Gaz. vol. 165; p. 123.
Murphy Iron Works. (See East, Caleb M., assignor.)
Murphy Iron Works. (See Fortune and Wells, assignors.)
Murphy, James J., assignor to Eagle Lock Co., Terryville, Conn. Padlock. No. 983,637; Feb. 7; Sp. p. 813; Gaz. vol. 163; p. 130.
Murphy, James J., assignor to Eagle Lock Co., Terryville, Conn. Permutation post-office lock. No. 988,649; Apr. 4; Sp. p. 774; Gaz. vol. 165; p. 123.
Murphy, James J., assignor to Eagle Lock Co., Terryville, Conn. Door-latch. No. 993,788; May 30; Sp. p. 6369; Gaz. vol. 166; p. 1148.
Murphy, James J., assignor to Eagle Lock Co., Terryville, Conn. Safe-deposit lock. No. 996,726; July 4; Sp. p. 254; Gaz. vol. 168; p. 44.
Murphy, James J., assignor to Eagle Lock Co., Terryville, Conn. Master-key drawer-lock. No. 1,006,777; Oct. 24; Sp. p. 4875; Gaz. vol. 171; p. 866.
Murphy, James J., Sr., *et al.* (See Morris, Leopold, assignor.)
Murphy, James L., Chicago, Ill. Collar-band protector. No. 1,000,033; Aug. 8; Sp. p. 1682; Gaz. vol. 169; p. 316.
Murphy, John, Columbus, Ohio, assignor of one-third to J. A. Kuster, Denver, Colo. Railway-tie. No. 996,115; June 27; Sp. p. 4391; Gaz. vol. 167; p. 795.
Murphy, John D., deceased; E. N. and M. N. Murphy, executors, Chicago, Ill. Machine for bulging tank-heads. No. 1,013,046; Dec. 26; Sp. p. 5902; Gaz. vol. 173; p. 1032.
Murphy, John F., assignor to Flour City Ornamental Iron Works, Minneapolis, Minn. Door-hanger. No. 1,005,281; Oct. 10; Sp. p. 1549; Gaz. vol. 171; p. 279.
Murphy, John J., Cincinnati, Ohio. Beer-cooler. No. 1,004,459; Sept. 26; Sp. p. 4993; Gaz. vol. 170; p. 878.
Murphy, John J., Toledo, Ohio. Stereoscope. No. 1,012,144; Dec. 19; Sp. p. 3939; Gaz. vol. 173; p. 681.
Murphy, John L. (See Sullivan, Michael H., assignor.)
Murphy, M. O., *et al.* (See Paul, Arthur B., assignor.)
Murphy, Merritt N., *et al.*, executors. (See Murphy, John D.)
Murphy, Peter H. (See Covert, Edson C., assignor.)
Murphy, Peter H. (See Hoffman, John J., assignor.)
Murphy, Robert N., Buckingham, Quebec, Canada. Means for automatically reversing reciprocative carriages and the like. No. 995,080; June 13; Sp. p. 2173; Gaz. vol. 167; p. 377.
Murphy, Roy E., Colorado Springs, Colo. Beet-topper. No. 1,001,215; Aug. 22; Sp. p. 4343; Gaz. vol. 169; p. 791.
Murphy, Timothy C., Dubuque, Iowa. Drinking-fountain. No. 997,205; July 4; Sp. p. 1277; Gaz. vol. 168; p. 208.
Murphy-Tyler Co., The. (See Murphy, Daniel J., assignor.)
Murphy, Walter P., *et al.* (See Acker, Julius J., assignor.)
Murphy, Walter P., *et al.* (See Bundy, Cyrus L., assignor.)
Murphy, Walter P., Chicago, Ill. Car. No. 983,302; Feb. 7; Sp. p. 97; Gaz. vol. 163; p. 17.
Murphy, Walter P., Chicago, Ill. Running-board saddle. No. 989,028; Apr. 11; Sp. p. 1549; Gaz. vol. 165; p. 271.
Murphy, Walter P., Chicago, Ill. Car-roof. No. 992,578; May 16; Sp. p. 3756; Gaz. vol. 166; p. 672.
Murphy, Walter P., Chicago, Ill. Metal car-roof. No. 1,004,063; Sept. 26; Sp. p. 4139; Gaz. vol. 170; p. 743.
Murphy, Walter P., Chicago, Ill. Bolt. No. 1,004,183; Sept. 26; Sp. p. 4442; Gaz. vol. 170; p. 786.
Murphy, Walter P., Chicago, Ill. Roof-clip for car-roofs. No. 1,006,496; Oct. 24; Sp. p. 4274; Gaz. vol. 171; p. 768.
Murphy, Walter P., Chicago, Ill. Running-board saddle. No. 1,011,233; Dec. 12; Sp. p. 1876; Gaz. vol. 173; p. 324.
Murphy, Walter P., St. Louis, Mo. Release-rigging. No. 1,002,429; Sept. 5; Sp. p. 572; Gaz. vol. 170; p. 81.
Murphy, Walter P., St. Louis, Mo. Car-release rigging. No. 1,002,430; Sept. 5; Sp. p. 573; Gaz. vol. 170; p. 82.
Murphy, Walter P., St. Louis, Mo. Roof-clip. No. 1,006,495; Oct. 24; Sp. p. 4273; Gaz. vol. 171; p. 767.
Murphy, William J., Rosemount, Minn. Power stamping-machine. No. 985,623; Feb. 28; Sp. p. 5142; Gaz. vol. 163; p. 908.
Murphy, William L., Denison, Tex. Shell or projectile. No. 987,590; Mar. 21; Sp. p. 3846; Gaz. vol. 164; p. 685.
Murphy, William L., San Francisco, Cal. Disappearing bed. No. 1,007,596; Oct. 31; Sp. p. 6693; Gaz. vol. 171; p. 1205.
Murphy, William L., San Francisco, Cal. Window-shade and fixture. No. 1,011,234; Dec. 12; Sp. p. 1878; Gaz. vol. 173; p. 324.

Alphabetical list of patentees—Continued.

Murray, Artistides R., assignor to The Cincinnati Gear Cutting Machine Company, Cincinnati, Ohio. Speed-changing mechanism. No. 1,001,064; Aug. 22; Sp. p. 4036; Gaz. vol. 169; p. 742.
Murray, Aristides R., assignor to The Cincinnati Shaper Co., Cincinnati, Ohio. Gear-cutter. No. 1,007,376; Oct. 31; Sp. p. 6201; Gaz. vol. 171; p. 1131.
Murray, Charles F. (See Floyd and Murray.)
Murray, Charles F., Evanston, Ill. Contractible and expansible core-barrel. No. 990,287; Apr. 25; Sp. p. 4284; Gaz. vol. 165; p. 764.
Murray, Charles F., Evanston, Ill. Expansible core-barrel. No. 996,661; July 4; Sp. p. 133; Gaz. vol. 168; p. 23.
Murray, Charles F., Evanston, Ill. Contractible core-barrel. No. 1,005,062; Oct. 3; Sp. p. 1063; Gaz. vol. 171; p. 178.
Murray, Charles F., assignor to American Steel Foundries, Chicago, Ill. Journal-box. No. 992,976; May 23; Sp. p. 4612; Gaz. vol. 166; p. 841.
Murray, Charles F., assignor to American Steel Foundries, Chicago, Ill. Journal-box. No. 1,007,478; Oct. 31; Sp. p. 6417; Gaz. vol. 171; p. 1166.
Murray, Charles F., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Coupling-knuckle pivot-pin retainer. No. 1,009,985; Nov. 28; Sp. p. 5165; Gaz. vol. 172; p. 930.
Murray, Charles F., assignor to American Steel Foundries, Chicago, Ill. Journal-box. No. 1,009,986; Nov. 28; Sp. p. 5166; Gaz. vol. 172; p. 930.
Murray, Charles F., assignor of one-third to W. V. Kelley, one-third to R. P. Lamont, Chicago, Ill., and one-third to W. W. Butler, New York, N. Y. Side for railway-cars. No. 1,009,987; Nov. 28; Sp. p. 5168; Gaz. vol. 172; p. 930.
Murray, Charles F., assignor of one-third to W. V. Kelley, one-third to R. P. Lamont, Chicago, Ill., and one-third to W. W. Butler, New York, N. Y. Car side. No. 989,182; Apr. 11; Sp. p. 1868; Gaz. vol. 165; p. 324.
Murray, Charles F., Evanston, assignor to Simplex Railway Appliance Company, Chicago, Ill. Adjustable brake-head. No. 1,005,999; Oct. 17; Sp. p. 3134; Gaz. vol. 171; p. 563.
Murray, Charles F., Evanston, and P. M. Reilly, Chicago, Ill. Contractible ingot-core. No. 990,286; Apr. 25; Sp. p. 4282; Gaz. vol. 165; p. 763.
Murray, Charles F., Chicago, Ill., and W. S. Atwood, Montreal, Quebec, Canada. Pin-retainer. No. 1,010,300; Nov. 28; Sp. p. 5220; Gaz. vol. 172; p. 1036.
Murray, Charles F., Chicago, Ill., and W. S. Atwood, Montreal, Quebec, Canada; said Murray assignor to American Steel Foundries, Chicago, Ill.; said Atwood assignor to Dominion Car & Foundry Co. Limited, Montreal, Canada. Coupling-knuckle-pin retainer. No. 1,001,428; Aug. 22; Sp. p. 4721; Gaz. vol. 169; p. 863.
Murray, Christ. (See Fitzgerald and Murray.)
Murray, Christopher K. (See Fitzgerald and Murray.)
Murray, Dick H., Houston, Tex. Compressed-air engine. No. 1,002,739; Sept. 5; Sp. p. 1255; Gaz. vol. 170; p. 187.
Murray, Ellsworth A., St. Louis, Mo. Bucket-chain. No. 1,005,282; Oct. 10; Sp. p. 1551; Gaz. vol. 171; p. 280.
Murray, Francis T., Chicago, Ill. Mop-wringer. No. 1,003,146; Sept. 12; Sp. p. 2112; Gaz. vol. 170; p. 364.
Murray, George C., New York, N. Y. Draw-bar and yoke. No. 1,000,932; Aug. 15; Sp. p. 3689; Gaz. vol. 169; p. 661.
Murray, George C., New York, N. Y., assignor to Continental Railway Equipment Company, Wilmington, Del. Shock-absorber. No. 999,243; Aug. 1; Sp. p. 100; Gaz. vol. 169; p. 19.
Murray, James A., assignor of one-half to J. L. Mahoney, New Haven, Conn. Water-bag. No. 998,977; July 25; Sp. p. 5229; Gaz. vol. 168; p. 932.
Murray, Jasper, Huckabay, Tex. Pump. No. 1,012,896; Dec. 26; Sp. p. 5566; Gaz. vol. 173; p. 982.
Murray, Jesse E. (See McDuffee and Murray.)
Murray, John, Edinburgh, Scotland. Bookbinding-machine. No. 982,438; Jan. 24; Sp. p. 4988; Gaz. vol. 162; p. 863.
Murray, John B., Ellwood City, Pa. Music-leaf turner. No. 1,010,944; Dec. 5; Sp. p. 1208; Gaz. vol. 173; p. 190.
Murray, John D., San Francisco, Cal. Sand-blast apparatus. No. 998,111; July 18; Sp. p. 3290; Gaz. vol. 168; p. 593.
Murray, John J. (See Sheehan, Murray, and Booth.)
Murray, Maurice H., Los Angeles, Cal. Post and pole and base therefor. No. 1,002,861; Sept. 12; Sp. p. 1507; Gaz. vol. 170; p. 266.
Murray, Michael, Chicago, Ill. Pipe-flange wrench. No. 983,562; Feb. 7; Sp. p. 677; Gaz. vol. 163; p. 104.
Murray, Michael, and J. D. MacDougal, assignors, by mesne assignments, to Federal Electric Company, Chicago, Ill. Electric wall-box. No. 983,162; Jan. 31; Sp. p. 6527; Gaz. vol. 162; p. 1134.
Murray, Philip H., Denver, Colo. Lawn-swing. No. 995,983; June 20; Sp. p. 4108; Gaz. vol. 167; p. 715.
Murray, Stephen D., Dallas, Tex. Cotton-cleaner. No. 991,227; May 2; Sp. p. 846; Gaz. vol. 166; p. 144.
Murray, Stephen D., Dallas, Tex. Cotton-gin. No. 991,876; May 9; Sp. p. 2231; Gaz. vol. 166; p. 399.
Murray, Stephen D., Dallas, Tex. Brush-cylinder for cotton-gins. No. 1,011,831; Dec. 12; Sp. p. 3211; Gaz. vol. 173; p. 536.
Murray, Stephen D., Dallas, Tex. Gin. No. 1,011,832; Dec. 12; Sp. p. 3215; Gaz. vol. 173; p. 536.
Murray, Thomas, Groton, N. Y. Propeller. No. 1,008,857; Nov. 14; Sp. p. 2749; Gaz. vol. 172; p. 463.
Murray, Thomas E., New York, N. Y. Socket for electric glow-lamps. No. 986,743; Mar. 14; Sp. p. 2086; Gaz. vol. 164; p. 365.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 986,744; Mar. 14; Sp. p. 2087; Gaz. vol. 164; p. 365.
Murray, Thomas E., New York, N. Y. Meter-testing service cut-out. No. 991,004; May 2; Sp. p. 374; Gaz. vol. 166; p. 64.
Murray, Thomas E., New York, N. Y. Fuse-case. No. 991,005; May 2; Sp. p. 376; Gaz. vol. 166; p. 64.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 991,006; May 2; Sp. p. 378; Gaz. vol. 166; p. 65.
Murray, Thomas E., New York, N. Y. Electric fuse. No. 991,007; May 2; Sp. p. 380; Gaz. vol. 166; p. 65.
Murray, Thomas E., New York, N. Y. Electric-fuse case. No. 991,008; May 2; Sp. p. 381; Gaz. vol. 166; p. 65.
Murray, Thomas E., New York, N. Y. Meter-testing cut-out. No. 995,627; June 20; Sp. p. 3352; Gaz. vol. 167; p. 591.
Murray, Thomas E., New York, N. Y. Electric-cut-out box. No. 995,628; June 20; Sp. p. 3354; Gaz. vol. 167; p. 591.
Murray, Thomas E., New York, N. Y. Underfeed stoker. No. 997,206; July 4; Sp. p. 1279; Gaz. vol. 168; p. 208.
Murray, Thomas E., New York, N. Y. Support for electrical conductors. No. 998,112; July 18; Sp. p. 3295; Gaz. vol. 168; p. 593.
Murray, Thomas E., New York, N. Y. Electric cut-out. No. 1,012,145; Dec. 19; Sp. p. 3940; Gaz. vol. 173; p. 681.
Murray, Thomas E., and W. T. Dempsey, New York, N. Y. Electric switch. No. 1,011,639; Dec. 12; Sp. p. 2832; Gaz. vol. 173; p. 472.
Murray, Thomas R. (See Monroe, James G., assignor.)
Murray, Walter D., assignor of one-half to G. H. Libby, Portland, Me. Fruit-sizing machine. No. 1,013,092; Dec. 26; Sp. p. 5998; Gaz. vol. 173; p. 1049.
Murray, William H., San Francisco, Cal. Composition of matter. No. 1,003,147; Sept. 12; Sp. p. 2113; Gaz. vol. 170; p. 364.
Murray, William J., Bristol, Pa. Apparatus for supplying liquid to wool fiber. No. 991,075; May 2; Sp. p. 512. Gaz. vol. 166; p. 88.
Murrin, William E., assignor of one-fourth to D. C. Demarest, San Francisco, and one-fourth to F. F. Ames, Angels Camp, Cal. Coupling-jar. No. 1,002,601; Sept. 5; Sp. p. 944; Gaz. vol. 170; p. 140.
Murrock, John E., Barnes Corners, N. Y. Conveyer for grading and the like. No. 999,515; Aug. 1; Sp. p. 637; Gaz. vol. 169; p. 110.
Mursch, William H., Warren, Pa. Speed-regulating governor. No. 1,001,065; Aug. 22; Sp. p. 4041; Gaz. vol. 169; p. 743.
Muschick, Paul E., Parlin, N. J. Mechanism for applying power. No. 999,244; Aug. 1; Sp. p. 103; Gaz. vol. 169; p. 19.
Muse, Warwick J. (See Parvin and Muse.)
Muser, Fritz. (See Burby, John M., assignor.)
Musgrave, Samuel B. (See Owen and Musgrave.)
Musser, John L., Lancaster, Pa. Device for cleaning brush and roots from woodland. No. 1,002,740; Sept. 5; Sp. p. 1257; Gaz. vol. 170; p. 187.
Musser, William. (See Sailer, John M., assignor.)
Mussler, Henry F., assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Reamer. No. 995,413; June 13; Sp. p. 2863; Gaz. vol. 167; p. 486.
Musso, Frank C., San Jose, Cal. Measuring and filling machine. No. 997,933; July 11; Sp. p. 2858; Gaz. vol. 168; p. 488.
Mustad, Hans C. H., Duclair, France. Feeding mechanism for forges. No. 1,010,515; Dec. 5; Sp. p. 263; Gaz. vol. 173; p. 41.
Mustin, Herbert S., assignor to Austin Manufacturing Company, Chicago, Ill. Motor control. No. 993,540; May 30; Sp. p. 5815; Gaz. vol. 166; p. 1061.
Muth, Carl H. E. G., assignor to C. Kuzaroff, St. Paul, Minn. Life-preserver. No. 1,008,356; Nov. 14; Sp. p. 1581; Gaz. vol. 172; p. 288.
Mutschler, Anna A., Rochester, N. Y. Vehicle. No. 1,000,621; Aug. 15; Sp. p. 3047; Gaz. vol. 169; p. 554.
Muuss, Emil. (See Schmits and Muuss.)
Muzzio, James A., Clyde, Ohio. Calipers. No. 988,588; Apr. 4; Sp. p. 650; Gaz. vol. 165; p. 104.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 988,371; Apr. 4; Sp. p. 175; Gaz. vol. 165; p. 29.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 994,772; June 13; Sp. p. 1480; Gaz. vol. 167; p. 272.
Muzzy, William H., New York, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 994,773; June 13; Sp. p. 1484; Gaz. vol. 167; p. 272.

Alphabetical list of patentees—Continued.

Muzzy, William H., New York, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 994,774; June 13; Sp. p. 1486; Gaz. vol. 167; p. 273.
Muzzy, William H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Electrical cash-register with distant indication. No. 996,786; July 4; Sp. p. 368; Gaz. vol. 168; p. 63.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,008,357; Nov. 14; Sp. p. 1582; Gaz. vol. 172; p. 288.
Muzzy, William H., assignor to The National Cash Register Company, Dayton, Ohio. Recording door-lock. No. 1,010,675; Dec. 5; Sp. p. 601; Gaz. vol. 173; p. 96.
Myberg, Charles A., Glassport, Pa. Key-locking device. No. 983,749; Feb. 7; Sp. p. 1057; Gaz. vol. 163; p. 168.
Myer, Claus D., assignor to Simplex Hose Connection Co., Jersey City, N. J. Hose connection. No. 1,006,671; Oct. 24; Sp. p. 4660; Gaz. vol. 171; p. 830.
Myer, William E., Winifrede, W. Va. Account-keeping device. No. 1,013,047; Dec. 26; Sp. p. 5904; Gaz. vol. 173; p. 1033.
Myer, William P., Indianapolis, Ind. Wagon-loading screen. No. 1,011,889; Dec. 12; Sp. p. 3343; Gaz. vol. 173; p. 555.
Myers, Absalom G., assignor of one-half to A. C. Thompson, Dallas, Tex. Apparatus for separating cotton from its seed. No. 984,589; Feb. 21; Sp. p. 2909; Gaz. vol. 163; p. 517.
Myers, Adam, Cleveland, Ohio. Shoulder-brace. No. 997,080; July 4; Sp. p. 1030; Gaz. vol. 168; p. 165.
Myers, Alfred J. (See Harter and Myers.)
Myers, Arthur, Philadelphia, Pa. Burglar-alarm. No. 1,012,691; Dec. 26; Sp. p. 5069; Gaz. vol. 173; p. 910.
Myers, Benjamin R., Columbus, Ohio. Casing for springs. No. 990,210; Apr. 18; Sp. p. 4094; Gaz. vol. 165; p. 704.
Myers and Brother, F. E. (See Myers, Philip A., assignor.)
Myers, Charles G., Cleveland, Ohio. Lamp. No. 996,662; July 4; Sp. p. 135; Gaz. vol. 168; p. 24.
Myers, Charles H., assignor to National Harrow Co., Le Roy, Ill. Harrow attachment for plows. No. 1,002,172; Aug. 29; Sp. p. 6318; Gaz. vol. 169; p. 1142.
Myers, Charles S., Columbia, Pa. Automobile-wheel. No. 1,009,088; Nov. 21; Sp. p. 3258; Gaz. vol. 172; p. 576.
Myers, Clarence A., Camden, N. J. Stamping-machine. No. 1,006,117; Oct. 17; Sp. p. 3385; Gaz. vol. 171; p. 604.
Myers, E. B., *et al.* (See Routery, Herbert C., assignor.)
Myers, Edgar W., assignor to Euterpean Duplicator Company, Inc., Seattle, Wash. Machine for making perforated music. No. 984,289; Feb. 14; Sp. p. 2262; Gaz. vol. 163; p. 383.
Myers, Edgar W., assignor to Euterpean Duplicator Company, Seattle, Wash. Music-recorder. No. 1,004,184; Sept. 26; Sp. p. 4443; Gaz. vol. 170; p. 786.
Myers, Edward M., New York, N. Y. Toy. No. 997,407; July 11; Sp. p. 1690; Gaz. vol. 168; p. 307.
Myers, George F., Columbus, Ohio. Flying-machine. No. 995,550; June 20; Sp. p. 3166; Gaz. vol. 167; p. 563.
Myers, Henry K., Wilkinsburg, assignor of one-half to G. D. Breck, Pittsburg, Pa. Combined tie-plate and rail-fastening. No. 980,322; Jan. 3; Sp. p. 276; Gaz. vol. 162; p. 51.
Myers, Henry R., Covington, Ky. Post and lath construction for walls. No. 982,291; Jan. 24; Sp. p. 4698; Gaz. vol. 162; p. 812.
Myers, Isaac N., Los Angeles, Cal. Loading device. No. 998,378; July 18; Sp. p. 3890; Gaz. vol. 168; p. 690.
Myers, Jacob E., Blue Lake, Cal. Cuspidor-lifter. No. 980,821; Jan. 3; Sp. p. 1378; Gaz. vol. 162; p. 220.
Myers, James R., Fairmont, W. Va. Top. No. 999,839; Aug. 8; Sp. p. 1271; Gaz. vol. 169; p. 248.
Myers, John E., assignor to The Champion Chemical Company, Springfield, Ohio. Metallic grave-vault. No. 998,030; July 18; Sp. p. 3101; Gaz. vol. 168; p. 564.
Myers, John H. (See Parsons and Myers.)
Myers, Joseph R., Chicago, Ill. Folding box. No. 988,015; Mar. 28; Sp. p. 4832; Gaz. vol. 164; p. 860.
Myers, Joseph R., Chicago, Ill. Paper box. No. 992,683; May 16; Sp. p. 3964; Gaz. vol. 166; p. 707.
Myers, Kate M., *et al.* (See Routery, Herbert C., assignor.)
Myers, Leopold, Birmingham, England. Tag-holding clip. No. 992,233; May 16; Sp. p. 2995; Gaz. vol. 166; p. 551.
Myers, Lewis, Newark, Mich. Automatic fire-alarm. No. 1,003,196; Sept. 12; Sp. p. 2226; Gaz. vol. 170; p. 383.
Myers, Lewis C., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 984,234; Feb. 14; Sp. p. 2141; Gaz. vol. 163; p. 363.
Myers, Lewis C., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 987,907; Mar. 28; Sp. p. 4565; Gaz. vol. 164; p. 822.
Myers Manufacturing Company. (See Routery, Herbert C., assignor.)
Myers, Matthew J., assignor to B. I. Cooper, Syracuse, N. Y. Junction-box. No. 996,876; July 4; Sp. p. 572; Gaz. vol. 168; p. 94.
Myers, Milburn D., Anderson, Mo. Music holder and turner. No. 1,006,587; Oct. 24; Sp. p. 4501; Gaz. vol. 171; p. 802.
Myers, Orson M., Rock Island, Ill. Axis-register for lenses. No. 996,663; July 4; Sp. p. 136; Gaz. vol. 168; p. 24.
Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Pump-stand. No. 986,305; Mar. 7; Sp. p. 1136; Gaz. vol. 164; p. 184.
Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Hay-carrier. No. 1,012,692; Dec. 26; Sp. p. 5070; Gaz. vol. 173; p. 910.
Myers, Samuel D. (See Harcourt, Harry S., assignor.)
Myers, Samuel D., *et al.* (See Knight, Charles A., assignor.)
Myers, Samuel F., Los Angeles, Cal. Ash-trap. No. 988,372; Apr. 4; Sp. p. 178; Gaz. vol. 165; p. 30.
Myers, W. G., *et al.* (See Harris, Bert H., assignor.)
Myers, Washington B., New Oxford, Pa. Corn-planter and fertilizer-distributer. No. 987,482; Mar. 21; Sp. p. 3642; Gaz. vol. 164; p. 649.
Myers, William D., East Orange, N. J. Building-block. No. 991,009; May 2; Sp. p. 382; Gaz. vol. 166; p. 65.
Myers, William E. (See Wyatt, Albert H., assignor.)
Mygatt, Otis A., New York, N. Y. Prism-glass reflector for artificial lights. No. 988,488; Apr. 4; Sp. p. 419; Gaz. vol. 165; p. 68.
Mygatt, Otis A., New York, N. Y. Composite reflector for light-rays. (Reissue.) No. 13,293; Sept. 26; Sp. p. 5174; Gaz. vol. 170; p. 909.
Mygrants, Willis L. (See Aten, Merritt L., assignor.)
Mykolashek, Charles, Raymond, Wash. Evaporator. No. 995,629; June 20; Sp. p. 3356; Gaz. vol. 167; p. 592.
Mylius, Frederic, Atlanta, Ga. Airship. No. 983,750; Feb. 7; Sp. p. 1058; Gaz. vol. 163; p. 169.
Myrholm, Peder, Volga, S. D. Hay-rack. No. 980,323; Jan. 3; Sp. p. 278; Gaz. vol. 162; p. 51.
Mysto Manufacturing Company. (See Petrie, John A., assignor.)
N. & D. Manufacturing Co. (See Noble and Dabaghian, assignors.)
Naamlooze Vennootschap Algemeene Uitvinding Exploitatie Maatschappy. (See Van der Heyden, Willem, assignor.)
Nabhan, Elias H., Methuen, Mass. Picker-stick. No. 992,977; May 23; Sp. p. 4614; Gaz. vol. 166; p. 842.
Nabors, George P. (See Durst and Nabors.)
Nace, John P., Kansas City, Mo. Tumbler-washer. No. 980,324; Jan. 3; Sp. p. 281; Gaz. vol. 162; p. 51.
Nace, John P., Kansas City, Mo. Store-service apparatus. No. 980,325; Jan. 3; Sp. p. 282; Gaz. vol. 162; p. 52.
Nace, Thomas H., Hot Springs, Ark. Combination window-screen and fly-trap. No. 1,006,778; Oct. 24; Sp. p. 4878; Gaz. vol. 171; p. 866.
Nachod, Carl P., Philadelphia, Pa. Trolley-switch. No. 992,035; May 9; Sp. p. 2538; Gaz. vol. 166; p. 452.
Nachod, Carl P., Philadelphia, Pa. Signaling apparatus. No. 997,692; July 11; Sp. p. 2276; Gaz. vol. 168; p. 403.
Nadeau, Desire, Cohasset, Minn. Cover-fastener. No. 996,116; June 27; Sp. p. 4392; Gaz. vol. 167; p. 795.
Nadeau, Edouard. (See Vessot, Nadeau, and Paquin.)
Naegelen, Charles, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Press-head. No. 1,002,173; Aug. 29; Sp. p. 6320; Gaz. vol. 169; p. 1142.
Nageborn, William E., assignor to Gray Motor Company, Detroit, Mich. Carbureter. No. 994,687; June 6; Sp. p. 1252; Gaz. vol. 167; p. 202.
Nageborn, William E., assignor to Gray Motor Company, Detroit, Mich. Gas-engine. No. 1,010,785; Dec. 5; Sp. p. 863; Gaz. vol. 173; p. 135.
Nagel, Theodore, Chicago, Ill. Valve for vapor-burners. No. 984,776; Feb. 21; Sp. p. 3322; Gaz. vol. 163; p. 586.
Nagle, John J., Freeport, Ill. Duplicating-machine. No. 989,720; Apr. 18; Sp. p. 3055; Gaz. vol. 165; p. 538.
Nair, Frank. (See Nair, Louis and F.)
Nair, Louis and F., New Britain, Conn. Cover for traps and clean-outs for soil-pipes. No. 986,847; Mar. 14; Sp. p. 2316; Gaz. vol. 164; p. 401.
Namekawa, Kunigoro, J. Miyazawa, Shitaya, K. Miyabara, Hongo, and S. Emura, Shitaya, Tokyo, Japan. Electrolytic refining of zinc. No. 998,379; July 18; Sp. p. 3894; Gaz. vol. 168; p. 691.
Namiki, Ryosuke, Tokyo, Japan. Ruling-pen. No. 992,234; May 16; Sp. p. 2996; Gaz. vol. 166; p. 552.
Nance, Ernest L., St. Louis, Mo. Governor. No. 986,022; Mar. 7; Sp. p. 578; Gaz. vol. 164; p. 92.
Nannenhorn, Henry, Chicago, Ill. Roller-skate. No. 1,008,187; Nov. 7; Sp. p. 1148; Gaz. vol. 172; p. 189.
Naperville Lounge Company *et al.* (See Justh, Louis G., assignor.)
Napier, Frank L. (See Dufty, Arthur, assignor.)
Napier, George R., Macon, Ga. Propelling apparatus for boats. No. 1,006,118; Oct. 17; Sp. p. 3398; Gaz. vol. 171; p. 604.
Napier, William, Rives Junction, Mich. Current-motor. No. 1,008,668; Nov. 14; Sp. p. 2358; Gaz. vol. 172; p. 398.
Napoli, Eugenio, New York, N. Y. Automatic or self-opening extension dining-table. No. 1,003,490; Sept. 19; Sp. p. 2833; Gaz. vol. 170; p. 518.
Napolitano, Alfred, Jersey City, N. J. Device for holding fountain-pens in pockets. No. 982,984; Jan. 31; Sp. p. 6161; Gaz. vol. 162; p. 1076.

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Napp, Edwin K., Cleveland, Ohio. Amusement device. No. 981,672; Jan. 17; Sp. p. 3342; Gaz. vol. 162; p. 567.
Naramore, Truman C., and C. J. Barnwell, Los Angeles, Cal. Cigarette-smoker's pouch. No. 982,292; Jan. 24; Sp. p. 4698; Gaz. vol. 162; p. 812.
Narragansett Machine Company. (See Thornley, Albert J., assignor.)
Nary, John J., Harrisburg, Ill. Automatic coal-shaft basket. No. 995,892; June 20; Sp. p. 3938; Gaz. vol. 167; p. 683.
Nash, Abram, assignor of one-half to W. A. Prater, Chicago, Ill. Trolley. No. 1,000,189; Aug. 8; Sp. p. 2074; Gaz. vol. 169; p. 369.
Nash Engineering Company. (See Nash, Lewis H., assignor.)
Nash, John E. E., Denver, Colo. Controller-operated gong for electric cars. No. 1,004,675; Oct. 3; Sp. p. 267; Gaz. vol. 171; p. 46.
Nash, John S. (See Duvall, Stanley A., assignor.)
Nash, Lawrence S., assignor to C. Brushaber, Detroit, Mich. Pneumatic control system. No. 1,001,429; Aug. 22; Sp. p. 4793; Gaz. vol. 169; p. 863.
Nash, Lewis H., South Norwalk, Conn., assignor to Nash Engineering Company. Turbo-displacement engine. No. 988,133; Mar. 28; Sp. p. 5067; Gaz. vol. 164; p. 899.
Nash, Robert J., Maylawn, Mitcheldean, England. Cement-kiln. No. 983,563; Feb. 7; Sp. p. 678; Gaz. vol. 163; p. 105.
Nash, Thomas J., assignor to Capital Novelty Company, Lincoln, Nebr. Wall-paper perforator. No. 981,464; Jan. 10; Sp. p. 2940; Gaz. vol. 162; p. 477.
Nash, William C., Neenah, assignor of one-half to F. Huband, Menasha, Wis. Paper-making machine. No. 982,845; Jan. 31; Sp. p. 5850; Gaz. vol. 162; p. 1030.
Nashawannuck Mfg. Co., The. (See Brown, Samuel, assignor.)
Nashua Card Gummed & Coated Paper Company. (See Watson, George W., assignor.)
Nashua Machine Company. (See Littlefield, Frank A., assignor.)
Naslin, John O., Beaver Bend Orchard, Wash. Box-nailing fruit-press. No. 983,391; Feb. 7; Sp. p. 288; Gaz. vol. 163; p. 49.
Nathan, Albert F., New York, assignor to Russell, Burdsall & Ward Bolt and Nut Co., Port Chester, N. Y. Boring and turning machine. No. 986,493; Mar. 14; Sp. p. 1569; Gaz. vol. 164; p. 280.
Nathan, Morris J., and W. E. Glutsch, New York, N. Y. Trousers. No. 1,012,897; Dec. 26; Sp. p. 5567; Gaz. vol. 173; p. 982.
Nathurst, Jalmar G., Kingston, N. Y. Explosive. No. 1,005,739; Oct. 10; Sp. p. 2559; Gaz. vol. 171; p. 440.
Nathusius, Hans, Friedenshütte, near Morgenroth, Germany. Electric furnace. No. 983,303; Feb. 7; Sp. p. 98; Gaz. vol. 163; p. 18.
Nathusius, Hans, Friedenshütte, near Morgenroth, Germany. Electrical furnace. No. 1,000,838; Aug. 15; Sp. p. 3494; Gaz. vol. 169; p. 629.
Nation, Enoch A. (See Fraizer and Nation.)
National Acme Manufacturing Company, The. (See Henn, Edwin C., assignor.)
National-Acme Manufacturing Company, The. (See Smith, Oscar A., assignor.)
National Antislip Clutch Company. (See Allen, Fred R., assignor.)
National Automatic Tool Company, The. (See Stephenson, James R., assignor.)
National Battery Company. (See Engel, Frank, assignor.)
National Binding Machine Company. (See Chase, Reuben H. assignor.) (Reissue.)
National Biscuit Company. (See Ferrall and Mackay, assignors.)
National Blank Book Company. (See Elder, Edward H., assignor.)
National Boiler Washing Company. (See White, Ela B., assignor.)
National Brake & Clutch Company. (See Waring, William, assignor.)
National Brake & Clutch Company. (See Whitcomb, Lawrence, assignor.)
National Brake Company. (See Ackley, Griffin S., assignor.)
National Brake & Electric Company. (See Richards, Walter J., assignor.)
National Briquetting and Clay Working Machinery Company, The. (See Fernholtz, Emil, assignor.)
National Calculator Company. (See Smith, Chester J., assignor.)
National Carbon Company. (See Allen, Miner W., assignor.)
National Carbon Company. (See Allen and Conn, assignors.)
National Carbon Company. (See Brown, John W., assignor.)
National Carbon Company. (See Conn, Wallace T., assignor.)
National Carbon Company. (See Forssell, Carl F. J., assignor.)
National Carbon Company. (See Hill, Charles W., assignor.)
National Carbon Company. (See Ordway and Brown, assignors.)
National Carbon Company. (See Smith and Marshall, assignors.)
National Carbon Company. (See Snyder, Joseph L. K., assignor.)
National Carbonated Liquid Co. (See Kennedy, Guy L., assignor.)
National Cash Register Company, The. (See Bockhoff, William F., assignor.)
National Cash Register Company, The. (See Bockhoff and Von Pein, assignors.)
National Cash Register Company, The. (See Carroll, Thomas, assignor.)
National Cash Register Company, The. (See Church, Edmund S., assignor.)
National Cash Register Company, The. (See Cleal, Joseph P., assignor.)
National Cash Register Company, The. (See Foote, Theodore M., assignor.)
National Cash Register Company, The. (See Foster, Clarence B., assignor.)
National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
National Cash Register Company, The. (See Grimes, Charles D., assignor.)
National Cash Register Company, The. (See Kettering, Charles F., assignor.)
National Cash Register Company, The. (See Kettering and Chryst, assignors.)
National Cash Register Company, The. (See Lundgren, Charles A., assignor.)
National Cash Register Company, The. (See McCarthy, William M., assignor.)
National Cash Register Company, The. (See McCormick, John H., assignor.)
National Cash Register Company, The. (See Muzzy, William H., assignor.)
National Cash Register Company, The. (See Osborn, Francis C., assignor.)
National Cash Register Company, The. (See Palmer, Charles, assignor.)
National Cash Register Company, The. (See Pein, Edward J. Von, assignor.)
National Cash Register Company, The. (See Poser, Hermann, assignor.)
National Cash Register Company, The. (See Reintanz and Rothe, assignors.)
National Cash Register Company, The. (See Schweiger, William F., assignor.)
National Casket Co. (See Wetmore, Clayton F., assignor.)
National Compositype Company. (See Miller, Andrew E., assignor.)
National Computing Bin Company. (See Thomas, Luther B., assignor.)
National Dry Kiln Company, The. (See Minnick, Ira A., assignor.)
National Dump Car Company. (See Caswell, William A., assignor.)
National Dump Car Company. (See Gabriel, Charles, assignor.)
National Dump Car Company. (See Neikirk, John O., assignor.)
National Dump Car Company. (See Neikirk and Seaberg, assignors.)
National Dump Car Company. (See Otis, Spencer, assignor.) (Reissue.)
National Dump Car Company. (See Seaberg, Frederick, assignor.)
National Dump Car Company. (See Yost, Winfield, assignor.)
National Dump Car Company. (See Yost, Winfield H., assignor.)
National Dump Car Company. (See Zimmerman, Robert M., assignor.)
National Electric Lamp Company. (See Fagan, John T., assignor.)
National Electric Lamp Company, The. (See Massey, John R., assignor.)
National Electric Lamp Company. (See Merritt, Matthew M., assignor.)
National Electric & Magnetic Company. (See Brown, Fred H., assignor.)
National Electric Signaling Company. (See Fessenden, Reginald A., assignor.)
National Electric Specialty Company, The. (See Chapman, Frank S., assignor.) (Reissue.)
National Enameling and Stamping Company. (See Knapp, George W., assignor.)
National Enameling and Stamping Company. (See Wagandt, Charles L., assignor.)
National Equipment Company. (See Kihlgren, Theodor, assignor.)
National Equipment Company, The. (See Schmidt, Albert G. A., assignor.)
National Equipment Company. (See Walker, Walter F., assignor.)
National Fibre Box Company. (See Walter, Harrison B., assignor.)

National Fire Proofing Company. (See McAdoo, Samuel, assignor.)
National Fresh Air Furniture Company. (See Gregory, Eugene, assignor.)
National Gas Light Company. (See Doorenbos, John, assignor.)
National Harrow Co. (See Myers, Charles H., assignor.)
National Hydraulic Construction Company. (See Doebler, Charles F., assignor.)
National Insurance Scale Company. (See Schiemer, Jacob, assignor.)
National Laundry Machinery Company, The. (See McDorman, Paul, assignor.)
National Lumber Vulcanizing Corporation. (See Howard, Charles, assignor.)
National Machinery Co. (See Clouse, William L., assignor.)
National Mailing & Mfg. Co. (See Amidon, William S., assignor.)
National Malleable Castings Company, The. (See Bazeley, Arthur J., assignor.)
National Malleable Castings Company, The. (See Brooks, Chester K., assignor.)
National Malleable Castings Company, The. (See Buckius, Albert O., Jr., assignor.)
National Malleable Castings Company, The. (See Byers, Jacob J., assignor.)
National Malleable Castings Company, The. (See Coffin, Walter E., assignor.)
National Malleable Castings Company, The. (See Krakau, Harry T., assignor.)
National Malleable Castings Company, The. (See Pope, Henry F., assignor.)
National Malleable Castings Company, The. (See Schmidt, Ernest H., assignor.)
National Malleable Castings Company, The. (See Schroeder, William S., assignor.)
National Malleable Castings Company, The. (See Schultz, Carl J., assignor.)
National Malleable Castings Company, The. (See Stephenson, John W., assignor.)
National Malleable Castings Company, The. (See Tower, Clinton A., assignor.)
National Malleable Castings Company, The. (See Willison, John, assignor.)
National Match Company. (See Vaughan, Bernard G., assignor.)
National Metal Molding Company. (See Gilson, Henry R., assignor.)
National Metal Seal Company. (See Chellis, Eugene D., assignor.)
National Metallurgic Company. (See King, Tom C., assignor.)
National Peat Products & Chemical Company. (See Smith, James E., assignor.)
National Pneumatic Company. (See Brown, Thomas R., assignor.)
National Pneumatic Company. (See Burdett, John B., assignor.)
National Pneumatic Company. (See Forman, Paris R., assignor.)
National Pneumatic Company. (See Rowntree, Harold, assignor.)
National Pneumatic Company. (See Rowntree and Forman, assignors.)
National Regulator Company. (See Curtis, Walter M., assignor.)
National Sales Company, The. (See Meehan, John J., assignor.)
National Scale Company. (See Culmer, John W., assignor.)
National Sewing Machine Co. (See Mayo, Junius E., assignor.)
National Sewing Machine Company. (See Brown, Willis S., assignor.)
National Sewing Machine Company. (See Chapman, Theron W., assignor.)
National Sewing Machine Company. (See Crandall, Jay E., assignor.)
National Specialty Company. (See Burnham, Arthur M., assignor.)
National Specialty Company. (See Crawford, William G., assignor.)
National Spring and Wire Company. (See King, Fred B., assignor.)
National Street and Station Indicator Company. (See Kellum and Wilson, assignors.)
National Sweeper Company. (See Davis, Stephen A., assignor.)
National Time Switch Company, The. (See Lindewald, Carl J., assignor.)
National Torpedo Company. (See Douglas, William M., assignor.)
National Tube Company. (See Farnham, Frederick F., assignor.)
National Tube Company. (See Ramage, Alexander S., assignor.)
National Tube Company. (See Speller, Frank N., assignor.)
National Tube Company. (See Stoney, George F., assignor.)
National Turpentine Company. (See Gautier, Thomas B., assignor.)
National Vacuum Cleaning Company, The. (See Green, Carl R., assignor.)
National Valve and Manufacturing Company. (See Haller, Henry E., asignor.)
National Varnish Company. (See Herz, Ferdinand W., assignor.)
National Water Main Cleaning Company, The. (See Mueller, Oscar B., assignor.)
National Water Main Cleaning Company. (See Mueller and Hodgman, assignors.)
National Water Softener Company, The. (See Bain, John E., assignor.)
National Waterproof Film Company. (See Daniels, Walter A., assignor.)
National Waterproof Film Company. (See Thompson, Frederick B., assignor.)
National Wireless Telephone & Telegraph Co. (See Jahnke, Albert A., assignor.)
National Wrapping Machine Company. (See Patterson, James M., assignor.)
National X-Ray Reflector Co., The. (See Morgan, Arthur J., assignor.)
Nations, Guy J., Quincy, Ill. Dental appliance. No. 1,009,551; Nov. 21; Sp. p. 4299; Gaz. vol. 172; p. 740.
Natural Food Company, The. (See Meyer, Frank, assignor.)
Natural Soda Products Company. (See Wrinkle and Paddock, assignors.)
Nau, John B., New York, N. Y. Purifying and refining iron. No. 984,590; Feb. 21; Sp. p. 2911; Gaz. vol. 163; p. 518.
Nau, John B., New York, N. Y. Electric furnace. No. 990,765; Apr. 25; Sp. p. 5384; Gaz. vol. 165; p. 929.
Nau, John B., New York, N. Y. Refining molten pig-iron. No. 991,633; May 9; Sp. p. 1731; Gaz. vol. 166; p. 318.
Naudin, Laurent, assignor to Société Française de la Viscose, Paris, France. Concentrating and maturing viscose. No. 986,306; Mar. 7; Sp. p. 1139; Gaz. vol. 164; p. 184.
Nauen, Charles J., Paterson, N. J. Needle-loom. No. 988,589; Apr. 4; Sp. p. 651; Gaz. vol. 165; p. 104.
Nauer, Ernest, Chicago, Ill. Gaseous-fluid compressor. No. 1,000,539; Aug. 15; Sp. p. 2835; Gaz. vol. 169; p. 522.
Naugle, Harry M., assignor to The Berger Manufacturing Company, Canton, Ohio. Knockdown metal form for concrete sidewalks. No. 995,630; June 20; Sp. p. 3357; Gaz. vol. 167; p. 592.
Naugle, John M. (See Detrick, Albaugh, Eicher, and Naugle.)
Nault, Raoul J., Malden, Mass. Water-gage. No. 995,414; June 13; Sp. p. 2865; Gaz. vol. 167; p. 486.
Nauton, Georges and H., G. de Marsac, St.-Ouen, Seine, and T. F. Tesse, Paris, France. Manufacture of soluble solvents. No. 983,751; Feb. 7; Sp. p. 1059; Gaz. vol. 163; p. 169.
Nauton, Henri. (See Nauton, de Marsac, and Tesse.)
Nave, Christian, Marne, Iowa. Pith-boring device. No. 987,314; Mar. 21; Sp. p. 3297; Gaz. vol. 164; p. 592.
Naylor, Alfred E., Plano, and J. C. Y. Moore, assignors to Naylor Manufacturing Company, La Grange, Ill. Harrow. No. 986,745; Mar. 14; Sp. p. 2089; Gaz. vol. 164; p. 366.
Naylor, Alfred E., Plano, and J. C. Y. Moore, assignors to Naylor Manufacturing Company, La Grange, Ill. Harrow. No. 1,007,304; Oct. 31; Sp. p. 6053; Gaz. vol. 171; p. 1104.
Naylor, George W. (See Geraghty and Naylor.)
Naylor, George W., assignor of two-thirds to E. F. Kopetschny and J. P. Geraghty, Jersey City, N. J. Puzzle. No. 993,456; May 30; Sp. p. 5635; Gaz. vol. 166; p. 1031.
Naylor, Leslie W. (See McKiveen and Naylor.)
Naylor Manufacturing Company. (See Naylor and Moore, assignors.)
Naylor, Paul B., Kansas City, Mo. Reinforcing means for silos. No. 988,731; Apr. 4; Sp. p. 959; Gaz. vol. 165; p. 152.
Nazel, John, Philadelphia, Pa., assignor to Sanitary Paper Bottle Company, Wilmington, Del. Seam-setting mechanism. No. 988,373; Apr. 4; Sp. p. 179; Gaz. vol. 165; p. 30.
Neagle, Bernard A., Durham, N. C. Electrical advertising device. No. 994,867; June 13; Sp. p. 1703; Gaz. vol. 167; p. 304.
Neal, Albert, Center, Ind. Lifting-jack. No. 1,001,066; Aug. 22; Sp. p. 4042; Gaz. vol. 169; p. 743.
Neal, Frederick M., Bridgeport, Conn. Air-valve for pneumatic tires. No. 1,012,898; Dec. 26; Sp. p. 5569; Gaz. vol. 173; p. 982.
Neal, John N., and R. T. Van Valkenburg, Muncie, Ind. Farm-gate. No. 1,001,976; Aug. 29; Sp. p. 5952; Gaz. vol. 169; p. 1078.
Neal, Lora, Benton, Ill. Cooking utensil. No. 1,009,334; Nov. 21; Sp. p. 3816; Gaz. vol. 172; p. 665.
Neal, Ray. (See Klingler, Frank, assignor.)
Neal, Spencer G., assignor to California Valve and Air Brake Company, Los Angeles, Cal. Distributing-valve for air-brakes. No. 1,012,693; Dec. 26; Sp. p. 5076; Gaz. vol. 173; p. 911.

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Neal, Spencer G., assignor to California Valve and Air Brake Company, Los Angeles, Cal. Triple valve for air-brakes. No. 1,012,694; Dec. 26; Sp. p. 5081; Gaz. vol. 173; p. 911.
Neal, Spencer G., assignor to California Valve and Air Brake Company, Los Angeles, Cal. Triple valve for air-brakes. No. 1,012,695; Dec. 26; Sp. p. 5085; Gaz. vol. 173; p. 912.
Neal, Thomas C. (See Smith, Benjamin W., assignor.)
Neal, Walter V., Boston, Mass. Bobbin-winder. No. 997,408; July 11; Sp. p. 1691; Gaz. vol. 168; p. 307.
Neale, Ancel C., Leonard, Tex. Safety-step for freight-cars. No. 981,465; Jan. 10; Sp. p. 2942; Gaz. vol. 162; p. 477.
Neale, Frank, Hood River, Oreg. Cable transportation system. No. 987,253; Mar. 21; Sp. p. 3155; Gaz. vol. 164; p. 571.
Nealis, Bernard, Fulton, N. Y. Rosette. No. 986,494; Mar. 14; Sp. p. 1572; Gaz. vol. 164; p. 280.
Nearing, George H., assignor to North & Judd Manufacturing Company, New Britain, Conn. Clasp. No. 1,004,542; Sept. 26; Sp. p. 5158; Gaz. vol. 170; p. 907.
Neatherland, Ranken A., Wyatt, La. Railway-switch. No. 985,275; Feb. 28; Sp. p. 4379; Gaz. vol. 163; p. 789.
Neatherland, Ranken A., assignor of one-half to L. S. Jones, Jonesboro, La. Railway-joint supporter. No. 983,752; Feb. 7; Sp. p. 1061; Gaz. vol. 163; p. 169.
Neats, Harry S., East Orange, N. J. Clamp or securing device for wire cables and the like. No. 1,010,301; Nov. 28; Sp. p. 5821; Gaz. vol. 172; p. 1036.
Nebel, Oscar H., Madison, S. D. Mouse-trap. No. 1,005,740; Oct. 10; Sp. p. 2560; Gaz. vol. 171; p. 440.
Nebergall, Loran E., Omaha, Nebr. Slip-socket. No. 988,489; Apr. 4; Sp. p. 422; Gaz. vol. 165; p. 69.
Neblett, John W., Riverside, Cal. Tire-pump. No. 991,010; May 2; Sp. p. 384; Gaz. vol. 166; p. 66.
Neblung, Friedrich, Velbert, Germany. Slide-bolt. No. 995,279; June 13; Sp. p. 2548; Gaz. vol. 167; p. 441.
Nedbor, Fanny. (See Nedbor, Samuel and F.)
Nedbor, Samuel and F., Cambridge, Mass. Flat-iron attachment. No. 1,007,305; Oct. 31; Sp. p. 6056; Gaz. vol. 171; p. 1105.
Nedyah Utilities Corporation. (See Hayden, Henry A., assignor.)
Needham, Joseph T., Herberton, North Queensland, Australia. Sugar-cane harvester. No. 985,440; Feb. 28; Sp. p. 4743; Gaz. vol. 163; p. 844.
Neef, Jacob F. (See Richardson and Neef.)
Neefe, Frank J., Cottage Grove, Wis. Loading apparatus. No. 985,923; Mar. 7; Sp. p. 352; Gaz. vol. 164; p. 57.
Neel Bros. (See Teate, Thomas A., assignor.)
Neel, George E., Elmdale, Tex. Portable stove. No. 995,705; June 20; Sp. p. 3507; Gaz. vol. 167; p. 618.
Neel, Walter C., assignor of one-half to C. G. Krupp, Kingsley, Kans. Gate-fastener. No. 982,010; Jan. 17; Sp. p. 4116; Gaz. vol. 162; p. 687.
Neeland, Marvin A., Montclair, N. J. Furnace. No. 1,011,476; Dec. 12; Sp. p. 2415; Gaz. vol. 173; p. 413.
Neeley, George S., St. Louis, Mo. Feeder-regulating transformer. No. 999,245; Aug. 1; Sp. p. 110; Gaz. vol. 169; p. 20.
Neelmeier, Wilhelm. (See Jansen and Neelmeier.)
Neelmeier, Wilhelm. (See Jordan and Neelmeier.)
Neelmeier, Wilhelm, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Aminobenzoylaminobenzoyl-2-amino-5-naphthol-7-sulfonic acid. No. 994,420; June 6; Sp. p. 661; Gaz. vol. 167; p. 113.
Neelmeier, Wilhelm, Leverkusen, near Cologne, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Aminobenzoylaminobenzoyl-2-amino-5-naphthol-7-sulfonic acid. (Reissue.) No. 13,304; Oct. 31; Sp. p. 6838; Gaz. vol. 171; p. 1230.
Neely, Lemon G. (See Heisler and Neely.)
Neely, Wilbur F., Chicago, Ill. Rotary engine. No. 1,003,491; Sept. 19; Sp. p. 2835; Gaz. vol. 170; p. 519.
Neenan, Michael E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator. No. 988,016; Mar. 28; Sp. p. 4834; Gaz. vol. 164; p. 861.
Neenan, Michael E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Tension-beam for frictional driving apparatus. No. 998,629; July 25; Sp. p. 4417; Gaz. vol. 168; p. 809.
Neeper, A. M. (See Forsyth, William D., assignor.)
Neeper, Alexander M. (See Forsyth, William D., assignor.)
Neff, Firm of C. (See Brandes, August, assignor.) (Reissue.)
Neff, John R., Moosomin, Saskatchewan, Canada. Disk harrow. No. 994,650; June 6; Sp. p. 1155; Gaz. vol. 167; p. 189.
Neff, Mary L., New York, N. Y. Sanitary drinking-cup. No. 1,002,537; Sept. 5; Sp. p. 799; Gaz. vol. 170; p. 116.
Negus, Henry. (See Beeson, John S., assignor.)
Neher, Levi M., Milford, Ind., assignor, by mesne assignments, to Fahnestock Electric Company. Spring binding-post. No. 1,005,283; Oct. 10; Sp. p. 1553; Gaz. vol. 171; p. 280.
Nehr, Herman F., Rutherford, N. J. Fuel-saving appliance. No. 981,673; Jan. 17; Sp. p. 3343; Gaz. vol. 162; p. 567.
Nehr, Herman F., Rutherford, N. J. Spring. No. 988,490; Apr. 4; Sp. p. 424; Gaz. vol. 165; p. 69.
Neiburg, Gustave L., Westpoint, Nebr. Oil-can. No. 981,674; Jan. 17; Sp. p. 3345; Gaz. vol. 162; p. 568.
Neider, Fred A., Cincinnati, Ohio. Making flanged nuts. No. 990,581; Apr. 25; Sp. p. 4976; Gaz. vol. 165; p. 868.
Neidich, Samuel A., Burlington, N. J. Type-chase. No. 989,277; Apr. 11; Sp. p. 2082; Gaz. vol. 165; p. 356.
Neikirk, John O. (See Hart and Neikirk.)
Neikirk, John O. (See Hart, Neikirk, and Hahn.)
Neikirk, John O., Morgan Park, assignor to National Dump Car Company, Chicago, Ill. Dumping-door-operating mechanism. No. 1,010,167; Nov. 28; Sp. p. 5540; Gaz. vol. 172; p. 992.
Neikirk, John O., Morgan Park, and F. Seaberg, assignors to National Dump Car Company, Chicago, Ill. Car construction. No. 1,011,235; Dec. 12; Sp. p. 1880; Gaz. vol. 173; p. 325.
Neikirk, Thomas H., Midas, Nev. Impact-filter. No. 1,000,540; Aug. 15; Sp. p. 2837; Gaz. vol. 169; p. 522.
Neill, James, Sheffield, England. Cutting files. No. 998,380; July 18; Sp. p. 3896; Gaz. vol. 168; p. 691.
Neill, Sylvester, New York, N. Y. Suspender-belt. No. 981,466; Jan. 10; Sp. p. 2943; Gaz. vol. 162; p. 477.
Neilly, Balmer, Bradford, Ontario, Canada. Refining silver bullion. No. 1,004,676; Oct. 3; Sp. p. 269; Gaz. vol. 171; p. 46.
Neilson, James. (See Neilson, Robert and J.)
Neilson, Robert and J., New York, N. Y. Burglar-alarm. No. 991,741; May 9; Sp. p. 1967; Gaz. vol. 166; p. 353.
Neilson, William, Pittsburg, Pa. Piling. No. 1,003,777; Sept. 19; Sp. p. 3475; Gaz. vol. 170; p. 618.
Neilson, William, Pittsburg, Pa. Piling. No. 1,003,778; Sept. 19; Sp. p. 3477; Gaz. vol. 170; p. 618.
Neilson, William J., Elmhurst, N. Y., assignor to himself, and L. H. Kimball, Salt Lake City, Utah. Power-generator. No. 987,158; Mar. 21; Sp. p. 2936; Gaz. vol. 164; p. 536.
Neiman, Oscar H., Freeport, Ill. Lubricator. No. 984,839; Feb. 21; Sp. p. 3437; Gaz. vol. 163; p. 606.
Neiman, Thomas B., Beaver Falls, Pa. Drill. No. 985,276; Feb. 28; Sp. p. 4382; Gaz. vol. 163; p. 790.
Neitzel, Otto M., Kingfisher, Okla. Electric-conduit connection and coupling. No. 995,893; June 20; Sp. p. 3940; Gaz. vol. 167; p. 683.
Nekarda, Francis J., New York, N. Y., assignor to M. E. Drake, Roselle Park, N. J. Life-preserving belt. No. 981,788; Jan. 17; Sp. p. 3586; Gaz. vol. 162; p. 608.
Nelk, Carl N., Palo Alto, Cal. Holder for pliant rubbing materials. No. 997,577; July 11; Sp. p. 2030; Gaz. vol. 168; p. 362.
Nellen, Friedrich, Essen-on-the-Ruhr, Germany. Walling of mines. No. 999,582; Aug. 1; Sp. p. 769; Gaz. vol. 169; p. 133.
Neller, Albert H., assignor to Louden Machinery Company, Fairfield, Iowa. Elevated carrier. No. 992,036; May 9; Sp. p. 2542; Gaz. vol. 166; p. 452.
Neller, Albert H., assignor to Louden Machinery Company, Fairfield, Iowa. Elevated carrier. No. 999,178; July 25; Sp. p. 5607; Gaz. vol. 168; p. 998.
Nelles, Fred C., *et al.* (See Grine, Harry A., assignor.)
Nellis, Charles E., assignor to J. W. Rapp, New York, N. Y. Sheet-metal structure. No. 1,009,089; Nov. 21; Sp. p. 3260; Gaz. vol. 172; p. 577.
Nellis, Thomas F. (See Fanning, John J., assignor.)
Nello, Vincent. (See Macdougall, William B., assignor.)
Nelson, Adolphus P., Grantsburg, Wis. Retaining device for overhead carriers. No. 1,004,809; Oct. 3; Sp. p. 562; Gaz. vol. 171; p. 92.
Nelson, Arthur W., Chicago, Ill. Journal-box. No. 1,005,455; Oct. 10; Sp. p. 1929; Gaz. vol. 171; p. 340.
Nelson, Axel. (See Smith and Nelson.)
Nelson, Axel, Grove City, Minn. Neck-yoke center. No. 1,001,067; Aug. 22; Sp. p. 4043; Gaz. vol. 169; p. 743.
Nelson, Charles, Brooklyn, assignor to S. Sternau & Company, New York, N. Y. Coffee-machine. No. 1,007,725; Nov. 7; Sp. p. 159; Gaz. vol. 172; p. 26.
Nelson, Charles B., Lindsborg, Kans. Spark-plug. No. 1,013,048; Dec. 26; Sp. p. 5907; Gaz. vol. 173; p. 1033.
Nelson, Charles J., Maywood, Ill., assignor to American Can Company, New York, N. Y. Press connection. No. 995,478; June 20; Sp. p. 3020; Gaz. vol. 167; p. 537.
Nelson, Christian, Morrison, Ill. Vehicle. No. 1,003,644; Sept. 19; Sp. p. 3176; Gaz. vol. 170; p. 572.
Nelson, Clair A., *et al.* (See Silva, Claude L., assignor.)
Nelson, Clarence. (See Crofford, Charles B., assignor.)
Nelson, De Witt, assignor to E. J. Phelps, Minneapolis, Minn. Tire. No. 1,004,895; Oct. 3; Sp. p. 767; Gaz. vol. 171; p. 123.
Nelson, Delphos C. and J. W., Marion, Ohio. Automatic stop for talking-machines. No. 982,293; Jan. 24; Sp. p. 4700; Gaz. vol. 162; p. 812.
Nelson, Dorothy, Seattle, Wash. Shampoo-shield. No. 981,588; Jan. 10; Sp. p. 3178; Gaz. vol. 162; p. 518.
Nelson, Edward, Aldrich, Minn. Collapsible clothes-rack. No. 984,591; Feb. 21; Sp. p. 2916; Gaz. vol. 163; p. 518.
Nelson, Edward D., Altoona, Pa. Railway-track tank. No. 1,000,749; Aug. 15; Sp. p. 3309; Gaz. vol. 169; p. 597.

Alphabetical list of patentees—Continued.

Nelson, Edward E., assignor of one-fourth to E. Grigg and one-fourth to H. C. Hill, Fillmore, Ill. Device for hooking fish. No. 1,012,899; Dec. 26; Sp. p. 5570; Gaz. vol. 173; p. 982.
Nelson, Edward J., Alliance, and F. H. Lang, assignors of fifty-two one-hundredths to V. F. Hofmann, Havelock, Nebr. Wheel. No. 1,010,786; Dec. 5; Sp. p. 865; Gaz. vol. 173; p. 135.
Nelson, Elon A., Chicago, Ill. Spring-wheel. No. 997,151; July 4; Sp. p. 1173; Gaz. vol. 168; p. 189.
Nelson, Emil A., Detroit, Mich. Spring suspension for motor-vehicles. No. 1,005,284; Oct. 10; Sp. p. 1555; Gaz. vol. 171; p. 280.
Nelson, Emil A., assignor to Hupp Motor Car Company, Detroit, Mich. Induction-conduit for explosion-engines. No. 992,235; May 16; Sp. p. 2997; Gaz. vol. 166; p. 552.
Nelson, Frank E., Jamestown, N. Y. Metal-door construction. No. 993,457; May 30; Sp. p. 5637; Gaz. vol. 166; p. 1032.
Nelson, Fred S., Chicago, Ill. Store-fixture. No. 985,924; Mar. 7; Sp. p. 355; Gaz. vol. 164; p. 57.
Nelson, George A., Timpson, assignor of one-third to F. H. Hamil and one-third to F. H. Duke, Mount Enterprise, Tex. Sand-band. No. 992,978; May 23; Sp. p. 4615; Gaz. vol. 166; p. 842.
Nelson, Henry T. (See Thomson, Alfred J., assignor.)
Nelson, James W. (See Morgan, William I., assignor.)
Nelson, James W. (See Nelson, Delphos C. and J. W.)
Nelson, Jas. B. (See Martin, William H., assignor.)
Nelson, Jennie, Chicago, Ill. Urn. No. 1,009,777; Nov. 28; Sp. p. 4752; Gaz. vol. 172; p. 861.
Nelson, John A., Rockford, Ill. Brick-hammer. No. 994,775; June 13; Sp. p. 1489; Gaz. vol. 167; p. 273.
Nelson, John O., Worcester, Mass. Sled. No. 989,395; Apr. 11; Sp. p. 2341; Gaz. vol. 165; p. 396.
Nelson, Julius and M., Minneapolis, Minn. Street and station indicator. No. 998,630; July 25; Sp. p. 4420; Gaz. vol. 168; p. 809.
Nelson, Lars O., Chicago, Ill. Scale ice-box. No. 1,001,158; Aug. 22; Sp. p. 4221; Gaz. vol. 169; p. 772.
Nelson, Lewen R., Peoria, Ill., assignor of one-half to Central Brass & Stamping Co. Nozzle. No. 1,006,450; Oct. 17; Sp. p. 4147; Gaz. vol. 171; p. 721.
Nelson, Lewen R., Peoria, Ill., assignor of one-half to Central Brass & Stamping Co. Lawn-sprinkler. No. 1,007,658; Oct. 31; Sp. p. 6825; Gaz. vol. 171; p. 1227.
Nelson, Louise, Chicago, Ill. Cooking utensil. No. 986,848; Mar. 14; Sp. p. 2317; Gaz. vol. 164; p. 401.
Nelson, Marcus. (See Nelson, Julius and M.)
Nelson, Marvin E., Esbon, Kans. Animal-holding device. No. 999,840; Aug. 8; Sp. p. 1272; Gaz. vol. 169; p. 248.
Nelson, Milford A., Fowler, Colo. Clevis. No. 1,009,552; Nov. 21; Sp. p. 4300; Gaz. vol. 172; p. 740.
Nelson, Nels W., and A. J. Thorvig, Spicer, Minn. Quack-grass-destroying machine. No. 983,304; Feb. 7; Sp. p. 100; Gaz. vol. 163; p. 18.
Nelson, Norvald. (See Norstebon and Nelson.)
Nelson, Olof, Chicago, Ill. Trestle-jack. No. 1,002,741; Sept. 5; Sp. p. 1258; Gaz. vol. 170; p. 188.
Nelson, Olof, San Diego, Cal. Paddle appliance for wave-motors. No. 1,002,742; Sept. 5; Sp. p. 1260; Gaz. vol. 170; p. 188.
Nelson, Pear, Hoopeston, Ill. Fruit-picker. No. 1,003,492; Sept. 19; Sp. p. 2837; Gaz. vol. 170; p. 519.
Nelson, Santa E., Kennett, Cal. Anticreeper for rails. No. 1,003,058; Sept. 12; Sp. p. 1925; Gaz. vol. 170; p. 333.
Nelson, Sven, Roslindale, Mass. Water-motor. No. 996,787; July 4; Sp. p. 375; Gaz. vol. 168; p. 63.
Nelson, Sven T., assignor to Sullivan Machinery Company, Chicago, Ill. Mine-hoist. No. 999,841; Aug. 8; Sp. p. 1273; Gaz. vol. 169; p. 249.
Nelson, Theodore F., Sheboygan, Wis. Hinge. No. 1,000,434; Aug. 15; Sp. p. 2605; Gaz. vol. 169; p. 485.
Nelson Valve Company. (See Kiley, Edward J., assignor.)
Nelson Valve Company. (See Mason, Carlisle, assignor.)
Nelson Valve Company. (See Schmid and Mason, assignors.)
Németh, Alexander, South Bend, Ind. Elevator safety device. No. 983,079; Jan. 31; Sp. p. 6381; Gaz. vol. 162; p. 1109.
Németh, Árpád, New York, N. Y., assignor to United States Telephone Herald Company, Wilmington, Del. Telephone system. No. 984,235; Feb. 14; Sp. p. 2142; Gaz. vol. 163; p. 363.
Nemethi, Charles, assignor to Premo Specialty Manufacturing Company, Los Angeles, Cal. Dispensing device. No. 984,592; Feb. 21; Sp. p. 2918; Gaz. vol. 163; p. 519.
Nemsey, William, Brooklyn, N. Y. Insect-trap. No. 995,280; June 13; Sp. p. 2548; Gaz. vol. 167; p. 441.
Nepean-Hutchison, William, assignor of one-half to A. M. Sinclair, Victoria, British Columbia, Canada. Garbage-cart. No. 981,653; Jan. 17; Sp. p. 3304; Gaz. vol. 162; p. 561.
Neptune Meter Company. (See Burton, James M., assignor.)
Neptune Meter Company. (See Gumprecht, William L., assignor.)
Neracher, William A. (See Borden and Neracher.)
Nerén, Karl E., Stockholm, Sweden. Regulating device for wind-motors. No. 983,163; Jan. 31; Sp. p. 6528; Gaz. vol. 162; p. 1135.
Nerking, Joseph, Dusseldorf, assignor to Chemische Fabrik Reisholz, G. m. b. H., Dusseldorf-Reisholz, Germany. Manufacture of harmless combinations of sulfocyanic acid. No. 1,010,447; Dec. 5; Sp. p. 87; Gaz. vol. 173; p. 17.
Nerking, Joseph, Dusseldorf, assignor to Chemische Fabrik Reisholz, G. m. b. H., Dusseldorf-Reisholz, Germany. Manufacture of harmless combinations of sulfocyanic acid. No. 1,011,075; Dec. 5; Sp. p. 1472; Gaz. vol. 173; p. 234.
Nerking, Joseph, Dusseldorf, assignor to Chemische Fabrik Reisholz, G. m. b. H., Dusseldorf-Reisholz, Germany. Manufacture of harmless combinations of sulfocyanic acid. No. 1,011,076; Dec. 5; Sp. p. 1473; Gaz. vol. 173; p. 234.
Nerli, Maria P. P. B., Florence, Italy. Wrapping for hydrotherapeutic purposes. No. 1,000,750; Aug. 15; Sp. p. 3310; Gaz. vol. 169; p. 598.
Nernst Lamp Company. (See Harris, Max, assignor.)
Nernst Lamp Company. (See Wilbur, Samuel P., assignor.)
Nero, Elizabeth L., assignor of one-half to C. E. Glafke, San Francisco, Cal. Temple-measuring device. No. 987,315; Mar. 21; Sp. p. 3298; Gaz. vol. 164; p. 592.
Nesbit, David M., Leicester, England. Automatic regulator for steam and other heating systems. No. 1,009,926; Nov. 28; Sp. p. 5040; Gaz. vol. 172; p. 910.
Nesbit, Watson M., and E. Pike, Eureka, Utah. Concentrator and amalgamator. No. 989,396; Apr. 11; Sp. p. 2343; Gaz. vol. 165; p. 396.
Nesbitt, Abram G. (See Schuman, George E., assignor.)
Nesbitt, Samuel J., Sr., Elizabeth, N. J. Brake for roller-skates. No. 982,846; Jan. 31; Sp. p. 5851; Gaz. vol. 162; p. 1030.
Nesbitt, Samuel W., Springfield, Mass. Device for dressing grinding-wheels. No. 1,001,430; Aug. 22; Sp. p. 4795; Gaz. vol. 169; p. 864.
Neslage, Herman F., St. Louis, Mo. Coal-oil burner. No. 1,002,300; Sept. 5; Sp. p. 260; Gaz. vol. 170; p. 35.
Nesmith, John W., deceased; H. M. Orahood, executor, assignor to Colorado Iron Works Company, Denver, Colo. Apparatus for smelting ores. No. 995,365; June 13; Sp. p. 2760; Gaz. vol. 167; p. 471.
Nesmith, John W., deceased; H. M. Orahood, executor, assignor to Colorado Iron Works Company, Denver, Colo. Smelting. No. 995,366; June 13; Sp. p. 2762; Gaz. vol. 167; p. 471.
Nester, John P., *et al.* (See Erb, Theodore C., assignor.)
Nethercot, Ashbel P. W., Elkhart, Ind. Splice-plate for rail-joints. No. 983,638; Feb. 7; Sp. p. 815; Gaz. vol. 163; p. 130.
Netschert, Frank, New York, N. Y. Sitz-bath attachment. No. 982,626; Jan. 24; Sp. p. 5378; Gaz. vol. 162; p. 927.
Nett, Fred H., Rialto, Cal. Door-holder. No. 994,776; June 13; Sp. p. 1490; Gaz. vol. 167; p. 273.
Netter, Raphaël. (See Thompson and Netter.)
Nettlefold & Sons Limited. (See Rees, James and J. W. H., assignors.)
Neubecker, C. A. (See Strohl, Friedrich, assignor.)
Neuberger, Henry C. (See Bergh, Loebinger, and Neuberger.)
Neubert, Walter P., Swissvale borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for governing the passage of cars or vehicles along a railway and the control thereof. No. 1,001,068; Aug. 22; Sp. p. 4045; Gaz. vol. 169; p. 744.
Neubert, Walter P., Swissvale, and W. H. McClelland, Jr., Wilkinsburg, assignors to The Union Switch and Signal Company, Swissvale, Pa. Railway signaling apparatus. No. 992,236; May 16; Sp. p. 2998; Gaz. vol. 166; p. 552.
Neuburger, Heinrich, *et al.* (See Beaumont, Frederick J., assignor.)
Neudecker, Gottlieb, Sycamore, Ill. Liquid measuring and registering apparatus. No. 1,012,696; Dec. 26; Sp. p. 5090; Gaz. vol. 173; p. 912.
Neudorff, Frederick, St. Joseph, Mo. Cover for spectacle-temples. No. 989,397; Apr. 11; Sp. p. 2345; Gaz. vol. 165; p. 396.
Neufeld, George, Philadelphia, Pa., assignor to New England Butt Company, Providence, R. I. Bobbin-carrier. No. 998,031; July 18; Sp. p. 3102; Gaz. vol. 168; p. 565.
Neukomm, Edwin, Rochdale, England. Valve trip-gear for steam and other motive-power engines. No. 1,005,741; Oct. 10; Sp. p. 2561; Gaz. vol. 171; p. 440.
Neuman, Anton B., Osceola, Wis. Fish-spear. No. 1,009,553; Nov. 21; Sp. p. 4302; Gaz. vol. 172; p. 741.
Neuman, Jacob, Baltimore, Md. Trousers-belt fastener. No. 988,134; Mar. 28; Sp. p. 5070; Gaz. vol. 164; p. 900.
Neuman, Nathan, assignor to himself and S. Grushlaw, Philadelphia, Pa. Neck, back, throat, and chest protector. No. 985,441; Feb. 28; Sp. p. 4745; Gaz. vol. 163; p. 844.
Neumann, Friedrich E. F., Wandsbek, near Hamburg, Germany. Producing cocoa powder. No. 998,113; July 18; Sp. p. 3296; Gaz. vol. 168; p. 594.
Neumann, Gebrüder. (See Scheidemann, Bruno, assignor.)

Neumayer, Frederick W., Baltimore, Md. Type-galley. No. 1,010,302; Nov. 28; Sp. p. 5822; Gaz. vol. 172; p. 1037.
Neumeyer, Horace F., Macungie, Pa. Faucet. No. 988,017; Mar. 28; Sp. p. 4842; Gaz. vol. 164; p. 861.
Neuner Company, The. (See Neuner and Landon, assignors.)
Neuner, Martin C., and G. R. Landon, assignors to The Neuner Company, Los Angeles, Cal. Metal base. No. 980,429; Jan. 3; Sp. p. 517; Gaz. vol. 162; p. 88.
Neuroth, John, St. Louis, Mo. Circular-saw set. No. 1,001,880; Aug. 29; Sp. p. 5741; Gaz. vol. 169; p. 1048.
Nevada Engineering Works. (See McCone and Lipe, assignors.)
Nevada Engineering Works. (See McCone and Roy, assignors.)
Nevers, George B., Springfield, Mass. Candy-setting machine. No. 993,094; May 23; Sp. p. 4860; Gaz. vol. 166; p. 882.
Neville, Christie S., Chicago, Ill. Sign. (Reissue.) No. 13,189; Jan. 3; Sp. p. 1563; Gaz. vol. 162; p. 247.
Neville, Frank M. (See Poling, Craig, assignor.)
Neville, Harry, assignor of one-fifth to G. H. Goodwin, one-fifth to D. P. Kellogg, one-fifth to W. F. Merry, and one-fifth to P. Sheedy, Los Angeles, Cal. Safety apparatus for steam-boilers. No. 1,004,896; Oct. 3; Sp. p. 769; Gaz. vol. 171; p. 123.
Nevins, Frederick, Brooklyn, N. Y., and W. B. Morewood, Elizabeth, N. J.; said Nevins assignor to said Morewood. Safety exit-door bolt mechanism. No. 1,007,306; Oct. 31; Sp. p. 6058; Gaz. vol. 171; p. 1105.
Nevins, James A. (See Scholl, William P., assignor.)
Nevins, William D., *et al.* (See Proven, Albert, assignor.)
New Britain Machine Company, The. (See Brown, Robert S., assignor.)
New Eccles Rubber Works Limited. (See Smith, Frederick H., assignor.)
New England Butt Company. (See Neufeld, George, assignor.)
New England Roller Grate Company. (See Baush, William H., assignor.)
New England Trolley Wheel Company. (See Tetlow, Lewis J., assignor.)
New England Watch Co., The. (See Hart, Edwin, assignor.)
New Haven Clock Co. (See Porter, Wilson E., assignor.)
New Haven Electric Mfg. Co. (See Barber, Harry C., assignor.)
New Idea Spreader Company. (See Synck, Henry, assignor.)
New Jersey Development Company. (See Gillmor, Horatio G., assignor.)
New Jersey Patent Company. (See Dyer, Frank L., assignor.)
New Jersey Patent Company. (See Edison, Thomas A., assignor.)
New Jersey Patent Company. (See Weber, Peter, assignor.)
New Jersey Patent Holding Company. (See Gallagher, Joseph D., assignor.)
New Jersey Patent Holding Company. (See Sloan, Harry, assignor.)
New Process Twist Drill Company. (See Pratt, Lloyd W., assignor.)
New Superheater Company. (See Pettigrew, William F., assignor.)
New York Adding Typewriter Company. (See Cram, Edwin B., assignor.)
New York Adding Typewriter Company. (See Kingsbury, Jere G., assignor.)
New York Automatic Sprinkler Co. (See Hall, Burton P., assignor.)
New York and Brooklyn Casket Co. (See Mowen, John H., assignor.)
New York Buckle Company. (See Brown, Royl A., assignor.)
New York Coil Company. (See Rhoades, Lewis T., assignor.)
New York Dairy Demonstration Company. (See North, Charles E., assignor.)
New York Die Company. (See Collins, Edmund R., assignor.)
New York Engineering Company. (See Ludlum, Albert C., assignor.)
New York & New Jersey Lubricant Company. (See Broad, John E., assignor.)
New York Quotation Company. (See Healy, Clarence L., assignor.)
New York Shipbuilding Company. (See Green, William A., assignor.)
New York Stamping Company. (See Simmons, Robert A., assignor.)
New York Steel Beam & Girder Company. (See Grey, Charles M., assignor.)
New York Wire Cloth Company. (See Root, Francis J., assignor.)
New York Woven Wire Mattress Co., The. (See Prince, Aaron, assignor.)
Newberry, James E., Decatur, Ga. Plow-handle. No. 992,237; May 16; Sp. p. 3001; Gaz. vol. 166; p. 553.
Newberry, Spencer B., and H. N. Barrett, Baybridge, Ohio. Fertilizer and making same. No. 995,028; June 13; Sp. p. 2050; Gaz. vol. 167; p. 359.
Newbold, Arthur, Moorestown, N. J. Toy fan. No. 1,004,677; Oct. 3; Sp. p. 270; Gaz. vol. 171; p. 47.
Newbold, Fleming. (See King, Erbie B., assignor.)
Newbold, Harry, London, England. Spectacles, eyeglasses, and the like. No. 997,317; July 11; Sp. p. 1523; Gaz. vol. 168; p. 277.
Newbold, John D. (See McCarter, Louis N., assignor.)
Newbold, Sidney, Philadelphia, Pa. Drill. No. 993,395; May 30; Sp. p. 5495; Gaz. vol. 166; p. 1012.
Newbold, Sidney, Philadelphia, Pa. Insertible tooth for metal-cutting saws or tools. No. 994,331; June 6; Sp. p. 469; Gaz. vol. 167; p. 81.
Newbould, Maurice G., Napier, New Zealand. Automatic cut-out for electrical conductors. No. 991,634; May 9; Sp. p. 1735; Gaz. vol. 166; p. 319.
Newbury, Abel T., Vermilion, Alberta, Canada. Flying-machine. No. 990,897; May 2; Sp. p. 147; Gaz. vol. 166; p. 28.
Newcomb Carbureter Co. (See Newcomb, Edward C., assignor.)
Newcomb, Charles N., West Palmbeach, Fla. Flying-machine. No. 992,579; May 16; Sp. p. 3758; Gaz. vol. 166; p. 673.
Newcomb, Edward C., Scituate, Mass., assignor of one-half to G. F. Chamberlin, Harrison, N. Y. Automatic regulator. No. 981,104; Jan. 10; Sp. p. 2118; Gaz. vol. 162; p. 350.
Newcomb, Edward C., Boston, Mass., assignor to The Newcomb Motor Company. Apparatus for generating steam or other vapors. No. 981,216; Jan. 10; Sp. p. 2362; Gaz. vol. 162; p. 389.
Newcomb, Edward C., Jamaica Plain, Mass., assignor to The Newcomb Motor Company. Apparatus for generating steam or other vapors. No. 981,217; Jan. 10; Sp. p. 2378; Gaz. vol. 162; p. 390.
Newcomb, Edward C., North Scituate, Mass., assignor of one-half to G. F. Chamberlin, New York, N. Y. Apparatus for generating steam. No. 981,218; Jan. 10; Sp. p. 2402; Gaz. vol. 162; p. 391.
Newcomb, Edward C., North Scituate, Mass., assignor to Newcomb Engine Company, New York, N. Y. Internal-combustion engine. No. 988,374; Apr. 4; Sp. p. 181; Gaz. vol. 165; p. 30.
Newcomb, Edward C., North Scituate, Mass, assignor to Newcomb Engine Company, New York, N. Y. Internal-combustion engine. No. 1,008,188; Nov. 7; Sp. p. 1151; Gaz. vol. 172; p. 190.
Newcomb, Edward C., North Scituate, Mass., assignor of three-fifths to P. Van Volkenburgh, New York, N. Y. Apparatus for heating fluids. No. 1,008,358; Nov. 14; Sp. p. 1588; Gaz. vol. 172; p. 288.
Newcomb, Edward C., North Scituate, Mass., assignor to Newcomb Carbureter Co. Carbureter. No. 1,010,066; Nov. 28; Sp. p. 5345; Gaz. vol. 172; p. 959.
Newcomb Engine Company. (See Newcomb, Edward C., assignor.)
Newcomb, Frederick W., Lamoni, Iowa. Folding chicken-coop. No. 989,029; Apr. 11; Sp. p. 1550; Gaz. vol. 165; p. 271.
Newcomb, Harry H., Newton, assignor, by mesne assignments, to C. A. Benneson, Cambridge, Mass. Drinking-fountain. No. 1,006,869; Oct. 24; Sp. p. 5103; Gaz. vol. 171; p. 900.
Newcomb, Harry H., Newton, assignor, by mesne assignments, to C. A. Benneson, Cambridge, Mass. Drinking-fountain. No. 1,006,870; Oct. 24; Sp. p. 5106; Gaz. vol. 171; p. 900.
Newcomb, Michael P., Sandpoint, Idaho. Dust-guard for journal-boxes. No. 1,011,359; Dec. 12; Sp. p. 2176; Gaz. vol. 173; p. 370.
Newcomb Motor Company, The. (See Newcomb, Edward C., assignor.)
Newcomb, Perl E., Hutchinson, Minn. Metal-flume coupling. No. 996,938; July 4; Sp. p. 708; Gaz. vol. 168; p. 115.
Newcomer, George M. (See Hornbeck, Henry S., assignor.)
Newcomer, William H., Star Junction, Pa. Tie and rail-fastener. No. 998,381; July 18; Sp. p. 3897; Gaz. vol. 168; p. 691.
Newell, Alfred T., Birmingham, Ala. Steering and running gear for wagons. No. 992,517; May 16; Sp. p. 3629; Gaz. vol. 166; p. 651.
Newell, Edward W., assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Coupling-centering device. No. 1,004,064; Sept. 26; Sp. p. 4141; Gaz. vol. 170; p. 744.
Newell, Frank C., Jr., Los Angeles, Cal. Transmutable display device. No. 1,004,810; Oct. 3; Sp. p. 564; Gaz. vol. 171; p. 92.
Newell, Ida M., Minneapolis, Minn. Sifter. No. 1,008,281; Nov. 7; Sp. p. 1371; Gaz. vol. 172; p. 223.
Newell, Peter S. H., Leonia, N. J. Book. No. 1,011,833; Dec. 12; Sp. p. 3220; Gaz. vol. 173; p. 537.
Newgarden, Albert. (See Bourne, Philip, assignor.)
Newgold, Morris, New York, N. Y. Vapor-lamp. No. 980,548; Jan. 3; Sp. p. 811; Gaz. vol. 162; p. 130.

Alphabetical list of patentees—Continued.

Newkirk, Edgar D., Canastota, N. Y., assignor to The Westinghouse Machine Company. Mechanical stoker. No. 983,305; Feb. 7; Sp. p. 101; Gaz. vol. 163; p. 18.
Newkirk, Edgar D., Canastota, N. Y., assignor to The Westinghouse Machine Company. Feeding apparatus for mechanical stokers. No. 988,491; Apr. 4; Sp. p. 425; Gaz. vol. 165; p. 69.
Newland, Charles L., Merton, England. Device for drawing off measured quantities of liquids. No. 1,001,977; Aug. 29; Sp. p. 5954; Gaz. vol. 169; p. 1079.
Newmaker, John W., Warren, Pa. Finishing the edges of rails on chiffonniers and similar articles. No. 993,541; May 30; Sp. p. 5817; Gaz. vol. 166; p. 1062.
Newman Air Coupler Company. (See Newman, Harry C., assignor.)
Newman, Edwin A., Washington, D. C. Placer-mining apparatus. No. 1,002,602; Sept. 5; Sp. p. 947; Gaz. vol. 170; p. 140.
Newman, Erick, Ashland, Wis. Automatic dumping and measuring mechanism. No. 1,007,597; Oct. 31; Sp. p. 6695; Gaz. vol. 171; p. 1205.
Newman, Frederick J., Chicago, Ill. Universal-joint coupling. No. 1,009,778; Nov. 28; Sp. p. 4753; Gaz. vol. 172; p. 861.
Newman, Harry C., assignor to Newman Air Coupler Company, Portland, Oreg. Automatic coupling. No. 1,009,554; Nov. 21; Sp. p. 4303; Gaz. vol. 172; p. 741.
Newman, Homer E., *et al.* (See Baer, Harry H., assignor.)
Newman, Martin F., Pittsburg, Pa. Solution-feeder for water-purifying apparatus. No. 997,318; July 11; Sp. p. 1524; Gaz. vol. 168; p. 277.
Newman, Paul. (See Blattle, Herman I., assignor.)
Newman, Paul. (See Blattle and Newman.)
Newman, Paul. (See Cavanagh and Bardsley, assignors.)
Newman, Rutledge H., and W. N. Gartside, Richmond, Ind. Window-cleaner. No. 989,398; Apr. 11; Sp. p. 2346; Gaz. vol. 165; p. 396.
Newman, William J., Chicago, Ill. Apparatus for disposal-stations. No. 985,442; Feb. 28; Sp. p. 4747; Gaz. vol. 163; p. 841.
Newman, William P., Bucyrus, Ohio. Step-ladder. No. 1,003,779; Sept. 19; Sp. p. 3479; Gaz. vol. 170; p. 619.
Newman, Wilson. (See Dickerman and Newman.)
Newmann, John, Brooklyn, N. Y. Roller-bearing. No. 1,001,673; Aug. 29; Sp. p. 5280; Gaz. vol. 169; p. 976.
Newmann, John, Brooklyn, N. Y. Pulley-coupling. No. 1,003,493; Sept. 19; Sp. p. 2838; Gaz. vol. 170; p. 519.
Newmann, John, Brooklyn, N. Y. Roller-bearing. No. 1,003,494; Sept. 19; Sp. p. 2840; Gaz. vol. 170; p. 519.
Newmann, John, Brooklyn, N. Y. Roller-bearing. No. 1,003,495; Sept. 19; Sp. p. 2842; Gaz. vol. 170; p. 520.
Newpher, Alfred H., Chicago, Ill. Window frame and sash. No. 991,011; May 2; Sp. p. 386; Gaz. vol. 166; p. 66.
Newpher, Alfred H., assignor to The Adams & Westlake Company, Chicago, Ill. Weather-guard for windows. No. 994,868; June 13; Sp. p. 1705; Gaz. vol. 167; p. 304.
Newrath, Gustave A., assignor to S. Kann, New York, N. Y. Swinging cot. No. 1,003,780; Sept. 19; Sp. p. 3480; Gaz. vol. 170; p. 619.
Newsholme, Norman R., Keighley, England. Doffing mechanism for spinning-frames. No. 989,183; Apr. 11; Sp. p. 1869; Gaz. vol. 165; p. 324.
Newsom-Archimedean Plowing Machine Company, The. (See Newsom, John Q. A., assignor.)
Newsom, John Q. A., assignor to The Newsom-Archimedean Plowing Machine Company, St. Louis, Mo. Land plowing, pulverizing, and cultivating machine. No. 980,881; Jan. 3; Sp. p. 1506; Gaz. vol. 162; p. 242.
Newsome, Edgar T., Boston, assignor to Asbestos Protected Metal Company, Canton, Mass. Protected metal sheet. No. 1,002,301; Sept. 5; Sp. p. 262; Gaz. vol. 170; p. 35.
Newsome, Edgar T., Boston, assignor to Asbestos Protected Metal Company, Canton, Mass. Apparatus for finishing the surfaces of fibrous layers. No. 1,002,302; Sept. 5; Sp. p. 263; Gaz. vol. 170; p. 36.
Newsome, Edgar T., Boston, assignor to Asbestos Protected Metal Company, Canton, Mass. Method of and apparatus for forming hermetically-sealed metal sheets. No. 1,002,303; Sept. 5; Sp. p. 265; Gaz. vol. 170; p. 36.
Newton, C. E. (See Carlton, Cortland, assignor.)
Newton, Carlton E. (See Carlton and Newton.)
Newton, Charles H., assignor to Progressive Manufacturing Company, Torrington, Conn. Make-and-break sparking device. No. 1,010,448; Dec. 5; Sp. p. 88; Gaz. vol. 173; p. 18.
Newton, Charles W. (See Thompson and Newton.)
Newton Extension Petticoat Company. (See Schneider, Alexander M., assignor.)
Newton, Fred, Hubbard, Oreg. Baling-press. No. 982,627; Jan. 24; Sp. p. 5379; Gaz. vol. 162; p. 928.
Newton, George H., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Metal-turning tool. No. 993,615; May 30; Sp. p. 5985; Gaz. vol. 166; p. 1089.
Newton, John J., Elizabeth, Ill. Water-heater. No. 983,753; Feb. 7; Sp. p. 1063; Gaz. vol. 163; p. 169.
Newton, Marvin G., assignor of one-half to N. M. Newton, Austin, Tex. Garden-hose reel. No. 990,453; Apr. 25; Sp. p. 4686; Gaz. vol. 165; p. 824.
Newton, Myron W., assignor to J. H. Kellogg, Battle Creek, Mich. Therapeutic lamp. No. 1,004,460; Sept. 26; Sp. p. 4995; Gaz. vol. 170; p. 879.
Newton, Nathaniel M. (See Newton, Marvin G., assignor.)
Newton, Robert C., Needham, Mass. Inking appliance. No. 987,814; Mar. 28; Sp. p. 4340; Gaz. vol. 164; p. 790.
Newton, S. H. (See Chaudron, Alfred G., assignor.)
Newton, William J., Lynbrook, N. Y., assignor to Metropolitan Switchboard Company. Flush-receptacle. No. 988,018; Mar. 28; Sp. p. 4845; Gaz. vol. 164; p. 861.
Newton, William M. (See Gold and Newton.)
Newtown Producing Company. (See Bonine, Charles E., assignor.)
Ney, Louis, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 982,187; Jan. 17; Sp. p. 4446; Gaz. vol. 162; p. 745.
Ney, Louis, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 983,164; Jan. 31; Sp. p. 6531; Gaz. vol. 162; p. 1135.
Ney, Louis, Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 989,922; Apr. 18; Sp. p. 3493; Gaz. vol. 165; p. 608.
Ney, Valentine L., assignor to The V. L. Ney Company, Canton, Ohio. Hay-elevator. No. 980,822; Jan. 3; Sp. p. 1379; Gaz. vol. 162; p. 220.
Niagara Cotton & Batting Company, The. (See Cochran, James, assignor.)
Niblick, Jesse G. (See Coppock, Lembert W., assignor.)
Nicault, Jules. (See Guéniffet and Nicault.)
Nice, Frederick J., Pontiac, Mich. Vehicle-spring. No. 1,007,479; Oct. 31; Sp. p. 6418; Gaz. vol. 171; p. 1166.
Nice, Fredrich J., Pontiac, Mich. Furnace for heating metal. No. 988,019; Mar. 28; Sp. p. 4847; Gaz. vol. 164; p. 862.
Nichoalds, Harry W., assignor to J. B. Whelan, Detroit, Mich. Friction-clutch. No. 1,011,834; Dec. 12; Sp. p. 3222; Gaz. vol. 173; p. 537.
Nichol, James. (See O'Banion and Nichol.)
Nichol, John C., Ottawa, Ontario, Canada. Lubricating device. No. 986,849; Mar. 14; Sp. p. 2318; Gaz. vol. 164; p. 401.
Nichol, John C., Ottawa, Ontario, Canada. Lubricator for car-axle journals. No. 989,995; Apr. 18; Sp. p. 3660; Gaz. vol. 165; p. 634.
Nicholas, James P., Weiner, Ark. Well-pump. No. 1,008,858; Nov. 14; Sp. p. 2751; Gaz. vol. 172; p. 463.
Nicholls, Albert W., East Norwalk, Conn. Gas-tube tip. No. 1,004,678; Oct. 3; Sp. p. 271; Gaz. vol. 171; p. 47.
Nicholls, Albert W., East Norwalk, Conn. Gas-tube tip. No. 1,006,588; Oct. 24; Sp. p. 4502; Gaz. vol. 171; p. 802.
Nicholls, Walter H., assignor to Gillette Safety Razor Company, Boston, Mass. Razor. No. 991,878; May 9; Sp. p. 2237; Gaz. vol. 166; p. 400.
Nicholls, William T., Wellsburg, W. Va. Apparatus for utilizing waste-water power. No. 983,512; Feb. 7; Sp. p. 544; Gaz. vol. 163; p. 87.
Nichols, Andrew P., assignor to Central Manufacturing Company, Seattle, Wash. Electrical liquid-heater. No. 991,877; May 9; Sp. p. 2234; Gaz. vol. 166; p. 399.
Nichols, Charles C. (See Case, Homer W., assignor.)
Nichols, Christopher C., Roanoke, Va. Shoe-button remover. No. 1,006,779; Oct. 24; Sp. p. 4879; Gaz. vol. 171; p. 867.
Nichols, Elmer P., assignor to Lacene Manufacturing Company, Manchester, N. H. Machine for evening and grading soles, taps, &c. No. 1,009,988; Nov. 28; Sp. p. 5169; Gaz. vol. 172; p. 930.
Nichols, Franklin P., Houston, Tex. Rotary engine. No. 983,754; Feb. 7; Sp. p. 1065; Gaz. vol. 153; p. 170.
Nichols, George H., Grand Rapids, Mich. Lathe attachment. No. 999,671; Aug. 1; Sp. p. 936; Gaz. vol. 169; p. 164.
Nichols, Henry B., Philadelphia, Pa. Grinding-machine. No. 980,882; Jan. 3; Sp. p. 1526; Gaz. vol. 162; p. 242.
Nichols, Henry B., Philadelphia, Pa. Producing and operating grinding-wheels. No. 984,961; Feb. 21; Sp. p. 3663; Gaz. vol. 163; p. 646.
Nichols, Henry B., Philadelphia, Pa. Grinding-wheel. No. 985,116; Feb. 21; Sp. p. 3957; Gaz. vol. 163; p. 699.
Nichols, Horace G., Ymir Gold Mines Limited, near Ymir, British Columbia, Canada. Apparatus for separating solids from liquids. No. 996,877; July 4; Sp. p. 573; Gaz. vol. 168; p. 95.
Nichols, Ida P., Ithaca, N. Y. Lifter for presser-feet for sewing-machines. No. 989,864; Apr. 18; Sp. p. 3371; Gaz. vol. 165; p. 588.
Nichols, Ida P., Ithaca, N. Y. Grinding device. No. 992,037; May 9; Sp. p. 2547; Gaz. vol. 166; p. 452.
Nichols, Ida P., Ithaca, N. Y. Darning device. No. 1,009,255; Nov. 21; Sp. p. 3642; Gaz. vol. 172; p. 635.
Nichols, Isaac F., Des Moines, Iowa. Locking-nut. No. 988,375; Apr. 4; Sp. p. 191; Gaz. vol. 165; p. 31.
Nichols, Jack L., assignor of one-fourth to A. L. Jacks and one-eighth to R. L. Willis, Belton, Tex. Aerial navigation. No. 991,528; May 9; Sp. p. 1494; Gaz. vol. 166; p. 280.
Nichols, James. (See Gillham, John, Jr., assignor.)

Alphabetical list of patentees—Continued.

Nichols, Louis C., Milwaukee, Wis., assignor to Allis-Chalmers Company. Insulating-bushing. No. 996,878; July 4; Sp. p. 576; Gaz. vol. 168; p. 95.
Nichols, Robert E., Akron, Ohio. Envelop-sealing machine. No. 1,008,359; Nov. 14; Sp. p. 1599; Gaz. vol. 172; p. 289.
Nichols, Will, assignor of one-half to A. F. Rexroad, Denver, Colo. Electric cooker. No. 997,467; July 11; Sp. p. 1796; Gaz. vol. 168; p. 326.
Nichols, Winfield S., assignor to Independent Harvester Company, Plano, Ill. Wheel-plow. No. 1,012,697; Dec. 26; Sp. p. 5095; Gaz. vol. 173; p. 913.
Nichols, Winfield S., Newark, and J. H. George, Harrison, assignors of one-third to said Winfield S. Nichols, one-third to said J. H. George, and one-third to H. J. Skipp, Newark, N. J. Ball-bearing screw. No. 992,897; May 23; Sp. p. 4432; Gaz. vol. 166; p. 813.
Nicholson, John E., assignor of one-half to M. R. Skillman, Cincinnati, Ohio. Vaudeville apparatus. No. 984,019; Feb. 14; Sp. p. 1675; Gaz. vol. 163; p. 289.
Nicholson, Linwood B., Dickerson, Md. Cutting-board attachment. No. 982,085; Jan. 17; Sp. p. 4270; Gaz. vol. 162; p. 711.
Nicholson, Samuel L., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Fluid-measuring device. No. 981,789; Jan. 17; Sp. p. 3587; Gaz. vol. 162; p. 609.
Nicholson, Wesley S., Novi, assignor of one-half to B. Hogle, Detroit, Mich. Automatic triple valve for brake mechanism. No. 996,117; June 27; Sp. p. 4393; Gaz. vol. 167; p. 796.
Nicholson, William C., Crown Point, Ind. Flexible metallic tire. No. 994,651; June 6; Sp. p. 1156; Gaz. vol. 167; p. 190.
Nichoson, Elmer, Grand Rapids, Mich. Inking device for printing-presses. No. 1,010,516; Dec. 5; Sp. p. 266; Gaz. vol. 173; p. 42.
Nickel Manufacturing Company. (See Desmond, John, assignor.)
Nickell, William M., Summers, Ark. Fertilizer-distributer. No. 1,009,684; Nov. 21; Sp. p. 4538; Gaz. vol. 172; p. 781.
Nickell, William W., McMinnville, Oreg. Gate. No. 980,326; Jan. 3; Sp. p. 284; Gaz. vol. 162; p. 52.
Nickerson, Charles S., Chicago, Ill. Ribbon mechanism for type-writing machines. No. 1,012,094; Dec. 19; Sp. p. 3827; Gaz. vol. 173; p. 663.
Nickerson, Edward, assignor to Hard Manufacturing Company, Buffalo, N. Y. Bed-bottom fabric. No. 980,549; Jan. 3; Sp. p. 812; Gaz. vol. 162; p. 131.
Nickerson, Edward, assignor to Hard Manufacturing Company, Buffalo, N. Y. Bed-bottom fabric. No. 980,550; Jan. 3; Sp. p. 814; Gaz. vol. 162; p. 131.
Nickerson, William E., Cambridge, Mass. Polishing apparatus. No. 998,257; July 18; Sp. p. 3591; Gaz. vol. 168; p. 644.
Nickerson, William E., Cambridge, Mass., assignor to Automatic Weighing Machine Company, New York, N. Y. Package-handling apparatus. No. 985,829; Mar. 7; Sp. p. 134; Gaz. vol. 164; p. 25.
Nickerson, William E., Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Apparatus for hardening and tempering. No. 991,012; May 2; Sp. p. 387; Gaz. vol. 166; p. 66.
Nickle, Harriet E., Earlville, Ill. Combined underwaist and corset. No. 990,582; Apr. 25; Sp. p. 4977; Gaz. vol. 165; p. 868.
Nickles, Clair A., assignor to C. A. Nickles and I. E. Horack, Ponca, Okla. Acetylene-gas generator. No. 1,008,049; Nov. 7; Sp. p. 865; Gaz. vol. 172; p. 139.
Nickum, Emma, Philadelphia, Pa. Sanitary cuspidor. No. 1,001,216; Aug. 22; Sp. p. 4344; Gaz. vol. 169; p. 791.
Niclausse, Albert. (See Niclausse, Jules and A.)
Niclausse, Jules and A., Paris, France. Furnace-grate. No. 990,766; Apr. 25; Sp. p. 5387; Gaz. vol. 165; p. 929.
Nicol, Richard W., Chicago, Ill. Child's toy. No. 1,005,285; Oct. 10; Sp. p. 1556; Gaz. vol. 171; p. 281.
Nicolai, John L., Alliance, Nebr. Rerailing-frog. No. 1,007,961; Nov. 7; Sp. p. 705; Gaz. vol. 172; p. 109.
Nicolaou, George P. P., Salisbury, N. C. Food compound. No. 1,012,415; Dec. 19; Sp. p. 4505; Gaz. vol. 173; p. 771.
Nicols, James F., Emerson, Ark. Railway-bolt. No. 980,823; Jan. 3; Sp. p. 1383; Gaz. vol. 162; p. 221.
Nicolson, John T., Marple, England. Steam-boiler. No. 1,003,059; Sept. 12; Sp. p. 1928; Gaz. vol. 170; p. 333.
Niditch, Isadore, Dorchester, Mass. Railway signal-fusee. No. 984,290; Feb. 14; Sp. p. 2262; Gaz. vol. 163; p. 383.
Nieberding, Frank A., Cleveland, Ohio. Water-heater. No. 980,327; Jan. 3; Sp. p. 286; Gaz. vol. 162; p. 52.
Nieberding, Frank A., assignor to Economy Stove Company, Cleveland, Ohio. Stove. No. 982,847; Jan. 31; Sp. p. 5853; Gaz. vol. 162; p. 1031.
Niebling, Frederick W., Cincinnati, Ohio. Insulated can. No. 982,848; Jan. 31; Sp. p. 5858; Gaz. vol. 162; p. 1031.
Niedecken, Edward F. (See Hoffmann and Niedecken.)
Niedecken, Edward F., Milwaukee, Wis. Mixing-valve. No. 1,001,431; Aug. 22; Sp. p. 4797; Gaz. vol. 169; p. 864.
Niedermayr, Georg, Hattersheim, assignor to A. V. Rowley, Frankfort-on-the-Main, Germany. Fabric-preparing device for sewing-machines. No. 999,463; Aug. 1; Sp. p. 529; Gaz. vol. 169; p. 93.
Niedhammer, Adam, Schenectady, N. Y. Threading-tool. No. 985,690; Feb. 28; Sp. p. 5286; Gaz. vol. 163; p. 931.
Niedhammer, Adam, Schenectady, N. Y. Chuck. No. 988,376; Apr. 4; Sp. p. 193; Gaz. vol. 165; p. 31.
Niele, Valentine J., assignor of one-third to T. M. McLenahan and one-third to F. W. Ertzman, Pittsburg, Pa. Alarm device. No. 988,732; Apr. 4; Sp. p. 960; Gaz. vol. 165; p. 152.
Niéll, Magnus, New York, N. Y. Camera. No. 982,849; Jan. 31; Sp. p. 5859; Gaz. vol. 162; p. 1031.
Nielsen, Andrew C., Chicago, Ill. Mold for concrete walls. No. 991,635; May 9; Sp. p. 1737; Gaz. vol. 166; p. 319.
Nielsen, Carl E., Madera, Mexico. Nut-lock. No. 999,842; Aug. 8; Sp. p. 1277; Gaz. vol. 169; p. 249.
Nielsen, Christian, Chicago, Ill. Elevator attachment. No. 992,438; May 16; Sp. p. 3462; Gaz. vol. 166; p. 623.
Nielsen, Elin K., New York, N. Y. Coat-stand. No. 983,392; Feb. 7; Sp. p. 292; Gaz. vol. 163; p. 49.
Nielsen, Elizabeth, Rochester, N. Y. Skirt-gage. No. 1,001,159; Aug. 22; Sp. p. 4222; Gaz. vol. 169; p. 773.
Nielsen, Frederik, Boston, Mass. Shock-absorber. No. 999,843; Aug. 8; Sp. p. 1278; Gaz. vol. 169; p. 249.
Nielsen, Frederik, Boston, Mass. Pipe-coupling. No. 1,001,069; Aug. 22; Sp. p. 4047; Gaz. vol. 169; p. 744.
Nielsen, Heinrich V. P., Boston, Mass. Smoke-separator. No. 1,009,779; Nov. 28; Sp. p. 4755; Gaz. vol. 172; p. 861.
Nielsen, Knud. (See Lundstrom and Nielsen.)
Nielsen, Laurits M., Roslindale, Mass., assignor to Nielsen Mailing Machinery Company, Erie, Pa. Stencil-cutting machine. No. 1,003,939; Sept. 19; Sp. p. 3833; Gaz. vol. 170; p. 673.
Nielsen, Ludvig H., Pittsburgh, Pa. Motor. No. 1,007,377; Oct. 31; Sp. p. 6210; Gaz. vol. 171; p. 1131.
Nielsen Mailing Machinery Company. (See Nielsen, Laurits M., assignor.)
Nielsen, Marius, Portland, Oreg. Gage. No. 1,007,229; Oct. 31; Sp. p. 5909; Gaz. vol. 171; p. 1078.
Nielsen, Nemesius, Cloverport, Ky. Wrench. No. 985,277; Feb. 28; Sp. p. 4383; Gaz. vol. 163; p. 790.
Niemann, Alfred C., assignor to H. A. Warnock, Chicago, Ill. Lathe-dog. No. 1,000,356; Aug. 8; Sp. p. 2417; Gaz. vol. 169; p. 425.
Niemann, Frederick A., assignor to Comptograph Company, Chicago, Ill. Adding-machine dash-pot mechanism. No. 1,012,698; Dec. 26; Sp. p. 5098; Gaz. vol. 173; p. 913.
Niemann, Gustav J. (See Kuster and Niemann.)
Niemann, Peter C., Newton, Mass. Shoe. No. 987,815; Mar. 28; Sp. p. 4341; Gaz. vol. 164; p. 791.
Niemczura, Aloysius, Amsterdam, N. Y. Motor-boat. No. 1,012,416; Dec. 19; Sp. p. 4506; Gaz. vol. 173; p. 771.
Niemeyer, Emil, Berlin-Tempelhof, Germany. Apparatus for manufacturing pillars. No. 994,777; June 13; Sp. p. 1491; Gaz. vol. 167; p. 274.
Niemeyer, William H., Baltimore, Md. Bottle-capping machine. No. 991,879; May 9; Sp. p. 2238; Gaz. vol. 166; p. 400.
Nies, Frank J., East Orange, N. J. Ventilating device. No. 1,006,119; Oct. 17; Sp. p. 3400; Gaz. vol. 171; p. 604.
Nies, Frederick H., New York, N. Y. Inlay-casting machine. No. 1,004,185; Sept. 26; Sp. p. 4445; Gaz. vol. 170; p. 787.
Nieser, Joseph F., Cleveland, Ohio. Smoke-consuming furnace. No. 1,000,751; Aug. 15; Sp. p. 3312; Gaz. vol. 169; p. 598.
Nieske, Alwin, Dresden, and E. Müller, Stuttgart, Germany. Production of metals and alloys. No. 993,270; May 23; Sp. p. 5222; Gaz. vol. 166; p. 937.
Niesz, Frank B. (See Gordon and Niesz.)
Niflot, Adolph, New York, N. Y. Fountain-pen blotter. No. 1,010,676; Dec. 5; Sp. p. 606; Gaz. vol. 173; p. 97.
Nihlen, Arthur, New York, N. Y. Milking-machine. No. 991,350; May 2; Sp. p. 1122; Gaz. vol. 166; p. 187.
Nikkel, Heinrich H. (See Friesen and Nikkel.)
Niles-Bement-Pond Company. (See Greenleaf, George E., assignor.)
Niles-Bement-Pond Company. (See Greenleaf and Thompson, assignors.)
Niles-Bement-Pond Company, The. (See Keefer, Samuel H., assignor.)
Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
Niles-Bement-Pond Company. (See Sears and Keefer, assignors.)
Niles-Bement-Pond Company. (See Siebenmorgen and Keefer, assignors.)
Niles, William H., Gardiner, Me. Load-carrier. No. 990,378; Apr. 25; Sp. p. 4505; Gaz. vol. 165; p. 795.
Nilson, Gustaf A., Chicago, Ill. Plumbing system. No. 993,095; May 23; Sp. p. 4863; Gaz. vol. 166; p. 883.
Nilson, Lars G., Hoboken, N. J. Air-cooled combustion-engine. No. 1,010,787; Dec. 5; Sp. p. 866; Gaz. vol. 173; p. 136.
Nilson, Pehr A., Philadelphia, Pa. Flying-machine. No. 1,009,780; Nov. 28; Sp. p. 4756; Gaz. vol. 172; p. 861.

Alphabetical list of patentees—Continued.

Nilsson, Axel W., Port Washington, assignor to Dreadnought Flooring Company, New York, N. Y. Die for interlocked sectional flooring. No. 999,844; Aug. 8; Sp. p. 1281; Gaz. vol. 169; p. 250.
Nilsson, Erik A., assignor to Mjolkningsmaskin Aktiebolaget, Hornsberg, Stockholm, Sweden. Air-distributer for pneumatic milking-machines. No. 992,238; May 16; Sp. p. 3002; Gaz. vol. 166; p. 553.
Nilsson, George F., Pasadena, Cal. Lawn-sprinkler. No. 986,201; Mar. 7; Sp. p. 925; Gaz. vol. 164; p. 150.
Nilsson, Maria S., Karlskrona, Sweden. Bed-pan. No. 1,002,077; Aug. 29; Sp. p. 6146; Gaz. vol. 169; p. 1111.
Niman, John L. (See Fleming and Niman.)
Nishida, Tokutaro, Seattle, Wash. Non-refillable bottle. No. 1,012,095; Dec. 19; Sp. p. 3832; Gaz. vol. 173; p. 663.
Nistle, George W., North Muskegon, Mich. Apparatus for heating or cooling liquids. No. 991,636; May 9; Sp. p. 1739; Gaz. vol. 166; p. 319.
Niswonger, Roman T. (See Mundhenk and Niswonger.)
Nitrogen Company, The. (See Acker, Charles E., assignor.) (Reissue.)
Nitrogen-Gesellschaft m. b. H. (See Reichel and Braun, assignors.)
Nitschelm, Fritz, Audincourt, France. Power-loom. No. 996,423; June 27; Sp. p. 5141; Gaz. vol. 167; p. 901.
Nitschelm, Fritz, Audincourt, France. Shuttle-check for looms. No. 996,508; June 27; Sp. p. 5294; Gaz. vol. 167; p. 929.
Nitschmann, Eduard, Flatonia, Tex. Crate or box forming machine. No. 992,580; May 16; Sp. p. 3765; Gaz. vol. 166; p. 673.
Nitzsche, Paul, Bant, Germany. Sliding-catch lock. No. 1,001,217; Aug. 22; Sp. p. 4346; Gaz. vol. 169; p. 791.
Nix, Joshua J., Alhambra, Cal. Making gas. No. 986,495; Mar. 14; Sp. p. 1574; Gaz. vol. 164; p. 280.
Nixon, Edward J., Westpoint, Cal. Removable link. No. 986,938; Mar. 14; Sp. p. 2498; Gaz. vol. 164; p. 432.
Nixon, Thomas, Santa Barbara, Cal. Device for protecting piles and other submerged structures. No. 1,008,669; Nov. 14; Sp. p. 2362; Gaz. vol. 172; p. 399.
Noack, William H., Cleveland, Ohio. Butter-cutter. No. 1,002,431; Sept. 5; Sp. p. 574; Gaz. vol. 170; p. 82.
Noad, Arthur C. (See Harrison and Noad.)
Noad, James, East Ham, England. Apparatus for distilling shale and other bituminous substances. No. 985,053; Feb. 21; Sp. p. 3843; Gaz. vol. 163; p. 678.
Noaker, Milton K., assignor to The Akron Cultivator Company, Akron, Ohio. Device for holding teeth in farming implements. No. 999,516; Aug. 1; Sp. p. 639; Gaz. vol. 169; p. 110.
Noakes, William, North Portland, Oreg. Egg-beater. No. 980,824; Jan. 3; Sp. p. 1384; Gaz. vol. 162; p. 221.
Noakes, William, Adams, Nebr. Automatic switch-closer. No. 994,269; June 6; Sp. p. 345; Gaz. vol. 167; p. 59.
Nobel's Explosives Company. (See Hodge, Howard D., assignor.)
Noble, Albert E., Anniston, Ala. Draft-gear. No. 1,006,120; Oct. 17; Sp. p. 3403; Gaz. vol. 171; p. 605.
Noble, Donald, Bridgeport, Conn. Machine for covering or insulating wire with yarn or its equivalent. No. 1,000,109; Aug. 8; Sp. p. 1896; Gaz. vol. 169; p. 342.
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Presser-foot mechanism for eyelet-sewing machines. No. 995,706; June 20; Sp. p. 3508; Gaz. vol. 167; p. 618.
Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Variable-speed power-transmitter for sewing-machines. No. 1,001,674; Aug. 29; Sp. p. 5281; Gaz. vol. 169; p. 976.
Noble, Eldridge H., Harpers Ferry, Iowa. Oil-can. No. 986,080; Mar. 7; Sp. p. 694; Gaz. vol. 164; p. 111.
Noble, Harry G., assignor to Gem City Machine Company, Dayton, Ohio. Tobacco-pipe. No. 980,551; Jan. 3; Sp. p. 816; Gaz. vol 162; p. 131.
Noble, James A., assignor to The Noble & Wood Machine Co., Hoosick Falls, N. Y. Driving mechanism for Jordan engines. No. 1,011,835; Dec. 12; Sp. p. 3223; Gaz. vol. 173; p. 537.
Noble, James L., Oakland, Cal Knockdown carpenter's square. No. 991,076; May 2; Sp. p. 515; Gaz. vol. 166; p. 89.
Noble, John O., assignor to Cumberland Paper Manufacturing Company, Portland, Me. Reinforced shipping-case. No. 988,020; Mar. 28; Sp. p. 4848; Gaz. vol. 164; p. 862.
Noble, Mary E., executrix, *et al.* (See Selleck, Silas E., assignor.)
Noble, Minnie H. (See Noble, William M., assignor.)
Noble, Ralph E., assignor to Morgan-Gardner Electric Company, Chicago, Ill. Electric system for discharging explosives. No. 1,012,146; Dec. 19; Sp. p. 3941; Gaz. vol. 173; p. 681.
Noble, Ralph E., and L. E. Mitchell, assignors to Morgan-Gardner Electric Company, Chicago, Ill. Brush-holder. No. 990,492; Apr. 25; Sp. p. 4789; Gaz. vol. 165; p. 837.
Noble, Ralph E., and L. E. Mitchell, assignors to Morgan-Gardner Electric Company, Chicago, Ill. Electric switch or controller. No. 990,767; Apr. 25; Sp. p. 5389; Gaz. vol. 165; p. 930.
Noble, Ralph E., and L. E. Mitchell, assignors to Morgan-Gardner Electric Company, Chicago, Ill. Trolley frog and crossing. No. 1,004,811; Oct. 3; Sp. p. 566; Gaz. vol. 171; p. 93.
Noble, Robert P. (See Burchard and Noble.)
Noble, Thomas, St. Annes-on-the-Sea, England. Well-borer. No. 1,002,743; Sept. 5; Sp. p. 1260; Gaz. vol. 170; p. 188.
Noble, William A., Isabella, Tenn. Automatic flange-oiler. No. 981,597; Jan. 10; Sp. p. 3193; Gaz. vol. 162; p. 521.
Noble, William B., and D. K. Dabaghian, Oakland, Cal., assignors to N. & D. Manufacturing Co. Rail-bond. No. 994,652; June 6; Sp. p. 1158; Gaz. vol. 167; p. 190.
Noble, William M., assignor to M. H. Noble, Eureka, Cal. Collar-button. No. 989,632; Apr. 18; Sp. p. 2879; Gaz. vol. 165; p. 509.
Noble & Wood Machine Co., The. (See Noble, James A., assignor.)
Noblitt, Frank. (See Cooke and Noblitt.)
Noe, William F. (See Betz and Noe.)
Noeggerath, Jakob E., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 988,377; Apr. 4; Sp. p. 195; Gaz. vol. 165; p. 32.
Noël, André, Paris, France. Stud for tire-covers. No. 992,239; May 16; Sp. p. 3005; Gaz. vol. 166; p. 554.
Noel, Frank, North Platte, Nebr. Can-opener. No. 993,396; May 30; Sp. p. 5496; Gaz. vol. 166; p. 1012.
Noell, Charles H., assignor of one-half to G. M. Arrington, Montvale, Va. Tamper or marker for planters. No. 993,271; May 23; Sp. p. 5224; Gaz. vol. 166; p. 937.
Noelle, Max, London, England. Furnace-charging apparatus. No. 990,379; Apr. 25; Sp. p. 4506; Gaz. vol. 165; p. 796.
Nogal, William E., *et al.* (See Ernst, Ethan A., assignor.)
Nohe, Augustus W., assignor to The Nohe Electric Home Renovator Co., Chicago, Ill. Vacuum-renovator. No. 982,011; Jan. 17; Sp. p. 4118; Gaz. vol. 162; p. 687.
Nohe Electric Home Renovator Co., The. (See Nohe, Augustus W., assignor.)
Noiseless Typewriter Company, The. (See Kidder and Sponsel, assignors.)
Noiseless Typewriter Company. (See Westin, Daniel B., assignor.)
Nolan, Eugene, *et al.* (See Barrett, Julious E., assignor.)
Nolan, Francis A., St. Paul, Minn. Detachable rubber heel. No. 1,000,110; Aug. 8; Sp. p. 1899; Gaz. vol. 169; p. 342.
Nolan, Francis A., St. Paul, Minn. Heel-fastener. No. 1,004,897; Oct. 3; Sp. p. 773; Gaz. vol. 171; p. 124.
Nolan, James T., Cleveland, Ohio. Bottle-holder. No. 984,962; Feb. 21; Sp. p. 3665; Gaz. vol. 163; p. 646.
Nolan, John H., Boston, Mass. Aero-traveler. No. 985,925; Mar. 7; Sp. p. 356; Gaz. vol. 164; p. 57.
Nolan, Johnston, *et al.* (See Vannatter, John E., assignor.)
Nolan, Martin S., Woburn, Mass. Hinge. No. 988,492; Apr. 4; Sp. p. 426; Gaz. vol. 165; p. 70.
Nolan, Peter J., Chester, Pa. Tire-tool. No. 1,009,781; Nov. 28; Sp. p. 4761; Gaz. vol. 172; p. 862.
Nolan, Thaddeus A., Cincinnati, Ohio. Kinetoscope. No. 995,551; June 20; Sp. p. 3168; Gaz. vol. 167; p. 564.
Nolan, Thaddeus A., Cincinnati, Ohio. Kinetoscope. No. 1,007,962; Nov. 7; Sp. p. 707; Gaz. vol. 172; p. 110.
Noland, Clarence A., Lucerne, Mo. Trace-protector. No. 1,011,360; Dec. 12; Sp. p. 2178; Gaz. vol. 173; p. 371.
Nold, Frank, Saginaw, Mich. Valve-reseating tool. No. 996,664; July 4; Sp. p. 138; Gaz. vol. 168; p. 24.
Nolde & Horst Co., The. (See Stoehrel, Friedrig H., assignor.)
Nolen, James G. (See Hewitt and Nolen.)
Nolen, James G., and J. E. Shepherd, Chicago, Ill., assignors to Automatic Fire Protection Company, New York, N. Y. Electric signaling system. No. 998,299; July 18; Sp. p. 3715; Gaz. vol. 168; p. 662.
Nolen, James G., New York, N. Y., and J. E. Shepherd, Charlottesville, Va., assignors to Automatic Fire Protection Company, New York, N. Y. Fire-protection signal system. No. 998,588; July 18; Sp. p. 4312; Gaz. vol. 168; p. 762.
Nolf, Pierre, Liege, Belgium. Converting yeast into food. No. 1,012,147; Dec. 19; Sp. p. 3944; Gaz. vol. 173; p. 681.
Noll, Frank A., Ross township, Allegheny county, Pa. Piano-bench. No. 1,010,168; Nov. 28; Sp. p. 5542; Gaz. vol. 172; p. 992.
Noll, John, Brooklyn, assignor of one-half to E. Del Mar, New York, N. Y. Sound-recording apparatus. No. 993,542; May 30; Sp. p. 5818; Gaz. vol. 166; p. 1062.
Nolstad, C. J. (See Johnson, Leonard, assignor.)
Nolte, Frederick W., Victoria, British Columbia, Canada. Eyeglasses. No. 982,895; Jan. 31; Sp. p. 6162; Gaz. vol. 162; p. 1076.
Nolte, Frederick W., Victoria, British Columbia, Canada. Lens-clamp. No. 999,517; Aug. 1; Sp. p. 640; Gaz. vol. 169; p. 110.
Nolte, Willis C., Dazey, N. D. Gate-hinge. No. 996,118; June 27; Sp. p. 4397; Gaz. vol. 167; p. 796.
Non-Refillable Bottle Company of America Inc. (See Davis and Smith, assignors.)
Noon, James J., Toronto, Ontario, Canada. Wrench. No. 1,001,596; Aug. 22; Sp. p. 5111; Gaz. vol. 169; p. 918.

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Noon, William J., assignor of one-half to S. J. Rousseau, Lynn, Mass. Counter-guard. No. 984,020; Feb. 14; Sp. p. 1677; Gaz. vol. 163; p. 289.
Noon, William J., assignor of one-half to S. J. Rousseau, Lynn, Mass. Counter-guard. No. 1,000,111; Aug. 8; Sp. p. 1900; Gaz. vol. 169; p. 343.
Noonan, John. (See Noonan, Peter H. and J.)
Noonan, Peter H., Noonan, N. D. Sanitary cuspidor-holder. No. 995,479; June 20; Sp. p. 3022; Gaz. vol. 167; p. 538.
Noonan, Peter H. and J., Noonan, N. D. Disk-harrow attachment. No. 1,006,589; Oct. 24; Sp. p. 4503; Gaz. vol. 171; p. 803.
Noonan, William P., Jersey City, and M. J. Roche, Weehawken, N. J. Cooling-condenser for gases. No. 992,581; May 16; Sp. p. 3767; Gaz. vol. 166; p. 674.
Noonen, Thomas H., New Rochelle, N. Y. Necktie former and holder. No. 999,845; Aug. 8; Sp. p. 1284; Gaz. vol. 169; p. 250.
Nopenz, Frederick A., Chicago, Ill. Heater. No. 1,002,538; Sept. 5; Sp. p. 801; Gaz. vol. 170; p. 117.
Nora-Gon, Evelyn B., Cleveland, Ohio. Serving-table. No. 980,328; Jan. 3; Sp. p. 289; Gaz. vol. 162; p. 53.
Norcross, Levi W., Fort Worth, Tex. Tuning instrument. No. 987,159; Mar. 21; Sp. p. 2937; Gaz. vol. 164; p. 537.
Norcross, Roy L., Minneapolis, Minn. Cranking device for gas-motors. No. 991,880; May 9; Sp. p. 2243; Gaz. vol. 166; p. 400.
Nordberg, Bruno V., Milwaukee, Wis. Fluid-operated engine. No. 998,032; July 18; Sp. p. 3104; Gaz. vol. 168; p. 565.
Nordenfelt, Henrik. (See Sohlman, Nordenfelt, and Morén.)
Nordenholt, George, New York, N. Y. Decorticating-machine. No. 983,755; Feb. 7; Sp. p. 1067; Gaz. vol. 163; p. 171.
Nordfors, Conrad, Jersey City, N. J. Machine for and method of making candles. No. 1,010,788; Dec. 5; Sp. p. 868; Gaz. vol. 173; p. 136.
Nordlinger, Louis, New York, N. Y. Fire-cracker and choking material for the same. No. 1,002,744; Sept. 5; Sp. p. 1262; Gaz. vol. 170; p. 189.
Nordlund, Oscar A., Lindsborg, Kans. Wrench. No. 991,529; May 9; Sp. p. 1498; Gaz. vol. 166; p. 280.
Nordstrom, Charles A. and O. S., Fairburn, S. D. Automatic truck. No. 1,005,063; Oct. 3; Sp. p. 1064; Gaz. vol. 171; p. 179.
Nordstrom, Otto S. (See Nordstrom, Charles A. and O. S.)
Noreck, Herman, Norfolk, Va. Broiler. No. 1,010,169; Nov. 28; Sp. p. 5543; Gaz. vol. 172; p. 993.
Norell, Fred O. (See Edmond and Norell.)
Norgrave, George B., Peabody, assignor to Witch Manufacturing Company, Salem, Mass. Machine for treating hides, skins, and leather. No. 982,523; Jan. 24; Sp. p. 5188; Gaz. vol. 162; p. 894.
Norin, Carl E., and A. C. Rothoff, Woodhaven, N. Y. Hand-stamp. No. 999,846; Aug. 8; Sp. p. 1285; Gaz. vol. 169; p. 250.
Norin, John, Jersey City, N. J. Rotary engine. No. 990,665; Apr. 25; Sp. p. 5161; Gaz. vol. 165; p. 895.
Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Pneumatic hammer. No. 998,919; July 25; Sp. p. 5078; Gaz. vol. 168; p. 911.
Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Pneumatic hammer. No. 1,001,297; Aug. 22; Sp. p. 4508; Gaz. vol. 169; p. 818.
Norling, Reinhold A., assignor to Aurora Automatic Machinery Company, Aurora, Ill. Pneumatic hammer. No. 1,001,298; Aug. 22; Sp. p. 4511; Gaz. vol. 169; p. 818.
Norman, Alexander, Dos Palos, Cal. Wind-motor. No. 980,995; Jan. 10; Sp. p. 1873; Gaz. vol. 162; p. 311.
Norman, Charles E., Chicago, Ill. Air-valve. No. 991,530; May 9; Sp. p. 1499; Gaz. vol. 166; p. 280.
Norman, Lionel, Brookline, Mass. Automobile sleigh. No. 996,119; June 27; Sp. p. 4398; Gaz. vol. 167; p. 796.
Norman, Sterling E., Manchester, N. H. Separable button. No. 1,000,752; Aug. 15; Sp. p. 3313; Gaz. vol. 169; p. 598.
Normandeau, Joseph H. A., assignor to Monarch Electric Company Limited, Montreal, Quebec, Canada. Electric switch. No. 985,173; Feb. 28; Sp. p. 4145; Gaz. vol. 163; p. 753.
Normandin, Levi P., Jackson, Mich. Weight-motor. No. 992,979; May 23; Sp. p. 4616; Gaz. vol. 166; p. 842.
Norris, Almon E., Cambridge, Mass. Hoisting apparatus. No. 980,818; Jan. 3; Sp. p. 1364; Gaz. vol. 162; p. 219.
Norris, Almon E., Cambridge, Mass. Hoisting apparatus. No. 991,077; May 2; Sp. p. 516; Gaz. vol. 166; p. 89.
Norris, Almon E., Cambridge, Mass. Hoisting device. No. 991,078; May 2; Sp. p. 520; Gaz. vol. 166; p. 90.
Norris, Almon E., Cambridge, Mass. Hoisting-bucket. No. 992,799; May 23; Sp. p. 4205; Gaz. vol. 166; p. 777.
Norris, Almon E., Cambridge, Mass. Hoisting and conveying apparatus. No. 995,707; June 20; Sp. p. 3510; Gaz. vol. 167; p. 619.
Norris, Almon E., Cambridge, Mass. Hoisting apparatus. No. 1,008,360; Nov. 14; Sp. p. 1606; Gaz. vol. 172; p. 290.
Norris, Almon E., Cambridge, Mass. Hoisting apparatus. No. 1,008,361; Nov. 14; Sp. p. 1611; Gaz. vol. 172; p. 290.
Norris, Ernest A., Albany, N. Y. Aerial vessel. No. 998,978; July 25; Sp. p. 5230; Gaz. vol. 168; p. 932.
Norris, Frank H., Robinson, Ill. Stuffing-box for polished rods for oil-wells. No. 1,011,236; Dec. 12; Sp. p. 1884; Gaz. vol. 173; p. 325.
Norris, H. E., *et al.* (See Tatum, Franklin M., assignor.)
Norris, Harry E., Worthington, Ohio. Explosive-engine. No. 988,650; Apr. 4; Sp. p. 776; Gaz. vol. 165; p. 124.
Norris, Howard P., Lewis, Kans. Wire-fence fabric. No. 1,005,286; Oct. 10; Sp. p. 1558; Gaz. vol. 171; p. 281.
Norris, Joseph B., Corsicana, Tex. Well-casing spear. No. 985,197; Feb. 28; Sp. p. 4193; Gaz. vol. 163; p. 763.
Norris, William, Toronto, Ontario, Canada. Heater. No. 998,114; July 18; Sp. p. 3298; Gaz. vol. 168; p. 594.
Norris, William G., Seattle, Wash. Safe or vault. No. 991,228; May 2; Sp. p. 848; Gaz. vol. 166; p. 144.
Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Birkeland, Kristian, assignor.)
Norsk-Hydro-elektrisk Kvaelstofaktieselskab. (See Bretteville, Axel, assignor.)
Norstebon, Andrew, and N. Nelson, Portland, N. D. Trap. No. 1,005,868; Oct. 17; Sp. p. 2845; Gaz. vol. 171; p. 517.
Norstrom, Nils E., Chicago, Ill. Lock-out telephone system. No. 1,001,070; Aug. 22; Sp. p. 4049; Gaz. vol. 169; p. 744.
Norstrom, Nils E., Chicago, Ill., assignor to The Anderson Electric and Manufacturing Company. Telephone-exchange. No. 980,883; Jan. 3; Sp. p. 1527; Gaz. vol. 162; p. 242.
Norstrom, Nils E., Chicago, Ill., assignor to The Anderson Electric & Manufacturing Co., Wichita, Kans. Lightning-arrester. No. 980,884; Jan. 3; Sp. p. 1531; Gaz. vol. 162; p. 243.
Norstrom, Nils E., Chicago, Ill., assignor to The Anderson Electric & Manufacturing Co., Wichita, Kans. Cable-box. No. 980,885; Jan. 3; Sp. p. 1532; Gaz. vol. 162; p. 243.
Norstrom, Samuel A., Chicago, Ill., assignor, by mesne assignments, to The Anderson Electric and Manufacturing Company, Wichita, Kans. Telephone-exchange. No. 980,886; Jan. 3; Sp. p. 1534; Gaz. vol. 162; p. 244.
North, Alfred C., Elkhart, Ind. Sales-book making and printing machine. No. 1,010,677; Dec. 5; Sp. p. 606; Gaz vol. 173; p. 97.
North American Dredging Co. of Nevada. (See Gridley, Fred H., assignor.)
North Bro's M'f'g Co. (See Leopold, George O., assignor.)
North, Charles E., Montclair, N. J., assignor to New York Dairy Demonstration Company, New York, N. Y. Milk-can. No. 982,012; Jan. 17; Sp. p. 4120; Gaz. vol. 162; p. 687.
North, Charles E., Montclair, N. J., assignor to New York Dairy Demonstration Company, New York, N. Y. Milk-can. No. 982,013; Jan. 17; Sp. p. 4122; Gaz. vol. 162; p. 688.
North, Charles H., assignor to The North Electric Company, Cleveland, Ohio. Selective telephone signaling system. No. 1,008,282; Nov. 7; Sp. p. 1373; Gaz. vol. 172; p. 224.
North, E. P., *et al.* (See Shelton, Mark, assignor.)
North, Edward, Los Angeles, Cal. Underreamer. No. 1,007,134; Oct. 31; Sp. p. 5695; Gaz. vol. 171; p. 1045.
North Electric Company, The. (See Clement, Edward E., assignor.)
North Electric Company, The. (See Mitchell, Jay G., assignor.)
North Electric Company, The. (See North, Charles H., assignor.)
North Electric Company, The. (See Wright, Joseph L., assignor.)
North, Gilbert, and J. S. Peck, Manchester, England, assignors to Westinghouse Electric and Manufacturing Company. Alternating-electric-current-distribution system. No. 1,007,480; Oct. 31; Sp. p. 6419; Gaz. vol. 171; p. 1166.
North and Judd Manufacturing Company. (See Anderson, Louis, assignor.)
North & Judd Manufacturing Company. (See Johnson, Herbert A., assignor.)
North and Judd Manufacturing Company, The. (See Johnson and Force, assignors.)
North and Judd Manufacturing Company, The. (See Monier, Frederick C., assignor.)
North & Judd Manufacturing Company. (See Nearing, George H., assignor.)
North, Lyman H., and H. C. Decker, Castle, Okla. Spoke-support. No. 991,742; May 9; Sp. p. 1968; Gaz. vol. 166; p. 353.
North, Norman S., Moodus, Conn. Mainspring-winder. No. 1,009,852; Nov. 28; Sp. p. 4904; Gaz. vol. 172; p. 886.
North, Paul, *et al.* (See Palmer, Herbert R., assignor.)
North, Robert B., Westminster, England. Automatic apparatus for controlling the supply of gas to burners. No. 982,384; Jan. 24; Sp. p. 4882; Gaz. vol. 162; p. 845.

Alphabetical list of patentees—Continued.

North, Thomas M., London, England, assignor, by mesne assignments, to The Fuchs & Lang Manufacturing Company, New York, N. Y. Printing-machine. No. 980,825; Jan. 3; Sp. p. 1385; Gaz. vol. 162; p. 222.
North, Titus A., Pittsburg, Pa. Clothes-rack. No. 1,000,933; Aug. 15; Sp. p. 3692; Gaz. vol. 169; p. 662.
Northam Auto Pressure Gauge Co. (See Northam and Sandham, assignors.)
Northam, Robert J., and W. E. Sandham, assignors to Northam Auto Pressure Gauge Co., Los Angeles, Cal. Explosion-engine-starting mechanism. No. 984,840; Feb. 21; Sp. p. 3438; Gaz. vol. 163; p. 607.
Northeast Electric Company. (See Halbleib, Edward A., assignor.)
Northern Engineering Co. (See Clark, Vivian V., assignor.)
Northern Engineering Works. (See True, George A., assignor.)
Northern Iron Company. (See Ross, Lewis P., assignor.)
Northern Water Softener Company. (See Bartlett, Kent W., assignor.)
Northrop, Frank B., St. Louis, Mo. Cooling attachment for steam-engine crank-cases. No. 988,493; Apr. 4; Sp. p. 429; Gaz. vol. 165; p. 70.
Northrop, H. Byrd. (See Ross, Harry B. and R. M., assignors.)
Northrop, Jonas, assignor to C. H. Draper, Hopedale, Mass. Hopper for filling-replenishing looms. No. 987,816; Mar. 28; Sp. p. 4343; Gaz. vol. 164; p. 791.
Northrop, Jonas, assignor to C. H. Draper, Hopedale, Mass. Misthreading device. No. 987,817; Mar. 28; Sp. p. 4345; Gaz. vol. 164; p. 791.
Northrup, Blancher D. (See McCausland, Arthur R., assignor.)
Northrup, Blancher D., assignor of one-half to A. R. McCausland, Washington, Pa. Speed-changing mechanism. No. 1,007,963; Nov. 7; Sp. p. 708; Gaz. vol. 172; p. 110.
Northrup, Elmer C., assignor of one-half to J. B. Featherstone, Los Angeles, Cal. Wrapping-machine. No. 980,329; Jan. 3; Sp. p. 291; Gaz. vol. 162; p. 53.
Northrup, Merton L., Lewis, Iowa. Storage system for seed-corn. No. 991,351; May 2; Sp. p. 1125; Gaz. vol. 166; p. 188.
Northrup, Vernon W., and M. H. Mellott, Hurlock, Md. Self-lubricating wheel. No. 990,583; Apr. 25; Sp. p. 4978; Gaz. vol. 165; p. 868.
Norton, B. W., *et al.*, trustees. (See Converse, Newton B., assignor.)
Norton, Bertram, Hagley, Stourbridge, England. Conveyer. No. 1,004,186; Sept. 26; Sp. p. 4447; Gaz. vol. 170; p. 787.
Norton, Charles E. (See Le Beau and Thresher, assignors.)
Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Wheel-feed for grinding-machines. No. 982,628; Jan. 24; Sp. p. 5381; Gaz. vol. 162; p. 928.
Norton, Charles H., Worcester, Mass., assignor to Norton Grinding Company. Balancing-machine for rotatable bodies. No. 982,629; Jan. 24; Sp. p. 5383; Gaz. vol. 162; p. 928.
Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Steady-rest for grinding-machines. No. 1,009,989; Nov. 28; Sp. p. 5180; Gaz. vol. 172; p. 931.
Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Clutch. No. 1,009,990; Nov. 28; Sp. p. 5183; Gaz. vol. 172; p. 931.
Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Work and table stop mechanism. No. 1,009,991; Nov. 28; Sp. p. 5184; Gaz. vol. 172; p. 931.
Norton, Charles H., assignor to Norton Grinding Company, Worcester, Mass. Table-stop clutch. No. 1,010,303; Nov. 28; Sp. p. 5824; Gaz. vol. 172; p. 1037.
Norton Company. (See Jeppson, George N., assignor.)
Norton, Fred E. (See Reynolds and Norton.)
Norton, Fred E., Youngstown, Ohio. Controlling-valve gear for compound engines. No. 1,004,296; Sept. 26; Sp. p. 4654; Gaz. vol. 170; p. 824.
Norton, Gerrit, New York, N. Y.; J. E. Aldrich, Upper Montclair, N. J., administratrix. Bottle-corking machine. No. 980,887; Jan. 3; Sp. p. 1541; Gaz. vol. 162; p. 244.
Norton, Grace M. F., Sutherland, Fla. Combined cooking-utensil support and food-support. No. 989,399; Apr. 11; Sp. p. 2348; Gaz. vol. 165; p. 397.
Norton Grinding Company. (See Norton, Charles H., assignor.)
Norton, Harold F., Newport News, Va. Boat-davit. No. 1,011,477; Dec. 12; Sp. p. 2417; Gaz. vol. 173; p. 413.
Norton, James A., assignor of one-half to W. L. Raeder, Wilkes-Barre, Pa. Trolley-harp. No. 1,000,034; Aug. 8; Sp. p. 1683; Gaz. vol. 169; p. 316.
Norton, Jerome B., Roslindale, Mass. Water-motor. No. 987,818; Mar. 28; Sp. p. 4349; Gaz. vol. 164; p. 791.
Norton, Joseph H., Mullinville, Kans. Telegraph-pole. No. 982,188; Jan. 17; Sp. p. 4448; Gaz. vol. 162; p. 745.
Norton, Lowell P., assignor of one-half to E. Hoornbeek, Los Angeles, Cal. Combination voltmeter, ammeter, and pneumatic pressure-gage. No. 998,115; July 18; Sp. p. 3301; Gaz. vol. 168; p. 594.
Norton, Martin H., Newport, Vt. Perforating-machine. No. 983,756; Feb. 7; Sp. p. 1069; Gaz. vol. 163; p. 171.
Norton, Uri M., Denver, Colo. Screen and plate holder for engravers' cameras. No. 982,294; Jan. 24; Sp. p. 4703; Gaz. vol. 162; p. 813.
Norton, William J., assignor of one-half to H. Armstrong, Denver, Colo. Signaling attachment for speedometers. No. 996,120; June 27; Sp. p. 4402; Gaz. vol. 167; p. 797.
Norton, William L., Boston, Mass. Casing-in machine for books. No. 988,651; Apr. 4; Sp. p. 777; Gaz. vol. 165; p. 124.
Norvell, James K., Chattanooga, Tenn. Seal for cars and the like. No. 1,012,417; Dec. 19; Sp. p. 4507; Gaz. vol. 173; p. 771.
Norwall Manufacturing Company. (See Hoffman, George D., assignor.)
Norwood, Earnest, Winona, Minn. Railway track and rails. No. 1,012,900; Dec. 26; Sp. p. 5571; Gaz. vol. 173; p. 983.
Norwood, Harry Y., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermostat. No. 986,023; Mar. 7; Sp. p. 581; Gaz. vol. 164; p. 93.
Norwood, Walter N., San Antonio, Tex. Vapor or gas generating apparatus. No. 986,202; Mar. 7; Sp. p. 927; Gaz. vol. 164; p. 150.
Nostrum, Olof A., Galesburg, Ill. Pump. No. 1,012,901; Dec. 26; Sp. p. 5572; Gaz. vol. 173; p. 983.
Notman, Robert L., assignor to McKinnon Dash Company, Buffalo, N. Y. Dash-brace. No. 981,936; Jan. 17; Sp. p. 3961; Gaz. vol. 162; p. 661.
Notman, Robert L., assignor to McKinnon Dash Company, Buffalo, N. Y. Shifting seat. No. 1,003,148; Sept. 12; Sp. p. 2115; Gaz. vol. 170; p. 364.
Nott, Albin J., New Orleans, La. Coin-handling apparatus. No. 986,939; Mar. 14; Sp. p. 2499; Gaz. vol. 164; p. 433.
Nott, Arthur F. (See Day and Nott.)
Nourse, Harold A., St. Paul, Minn. Lamp adapted for use in brooders, incubators, and similar structures. No. 988,958; Apr. 4; Sp. p. 1390; Gaz. vol. 165; p. 223.
Nourse, Matthew F., Cement, Wash. Marking-stake. No. 995,281; June 13; Sp. p. 2550; Gaz. vol. 167; p. 441.
Novak, John W., Pittsburg, Pa. Power-arrester. No. 986,203; Mar. 7; Sp. p. 929; Gaz. vol. 164; p. 150.
Novelty Incandescent Lamp Company. (See Pierson, Moses E., assignor.)
Novelty Manufacturing Co. (See Boeck, Charles G., assignor.)
Novelty Manufacturing Company, The. (See Fitzsimons, Louis E., assignor.)
Noville, William, Cleveland, Ohio. Automatic gate for railway-crossings. No. 1,009,927; Nov. 28; Sp. p. 5042; Gaz. vol. 172; p. 910.
Novoson, Abraham J., assignor to The Modern Cap Manufacturing Company, St. Louis, Mo. Cap or headwear. No. 995,029; June 13; Sp. p. 2052; Gaz. vol. 167; p. 359.
Nowak, John, assignor of one-third to A. Blasewitz, Yonkers, N. Y. Nut-lock. No. 992,137; May 9; Sp. p. 2753; Gaz. vol. 166; p. 487.
Nowak, Ottokar H., Chicago, Ill., assignor to Dermiforma Company of America. Tanning. No. 996,509; June 27; Sp. p. 5295; Gaz. vol. 167; p. 929.
Nowell, Robert L., Headland, Ala. Sod and potato-vine cutter. No. 988,805; Apr. 4; Sp. p. 1101; Gaz. vol. 165; p. 175.
Nowlin, Clifford E., Kalamazoo, Mich. Switch-stand. No. 991,531; May 9; Sp. p. 1501; Gaz. vol. 166; p. 280.
Nowodworski, Freadrich, Cleveland, Ohio. Railway-track. No. 996,121; June 27; Sp. p. 4406; Gaz. vol. 167; p. 797.
Noye Manufacturing Company. (See Wilson, John A., Jr., assignor.)
Noyes, Arthur A., New York, N. Y. Device for making beam-clamps. No. 992,038; May 9; Sp. p. 2548; Gaz. vol. 166; p. 453.
Noyes, Charles H., Omaha, Nebr. Rotatable barrier-plate for cockeyes. No. 988,494; Apr. 4; Sp. p. 430; Gaz. vol. 165; p. 70.
Noyes, Edward P. (See Reeve and Noyes.)
Noyes, Edward P., Winchester, Mass. Constant-pressure internal-combustion apparatus. No. 987,160; Mar. 21; Sp. p. 2940; Gaz. vol. 164; p. 537.
Noyes, Edward P., Winchester, Mass., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Internal-combustion steam-motor. No. 982,850; Jan. 31; Sp. p. 5861; Gaz. vol. 162; p. 1032.
Noyes, Edward P., Winchester, Mass., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Fluid-operated valve. No. 988,495; Apr. 4; Sp. p. 432; Gaz. vol. 165; p. 71.
Noyes, Edward P., Winchester, Mass., assignor to C P Power Company, Newark, N. J. Pressure-controlled fluid-regulator. No. 991,229; May 2; Sp. p. 849; Gaz. vol. 166; p. 144.
Noyes, Edward P., Winchester, Mass., assignor to C P Power Company, Newark, N. J. Overbalanced fluid-pressure valve. No. 991,230; May 2; Sp. p. 854; Gaz. vol. 166; p. 145.
Noyes, Edward P., Winchester, Mass., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Gas and liquid mixer. No. 993,096; May 23; Sp. p. 4865; Gaz. vol. 166; p. 883.

Alphabetical list of patentees—Continued.

Noyes, Edward P., Winchester, Mass., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Anterior-throttled carbureter. No. 993,097; May 23; Sp. p. 4871; Gaz. vol. 166; p. 884.
Noyes, Edward P., Winchester, and S. A. Reeve, Worcester, Mass., assignors, by mesne assignments, to C. P. Power Company, Newark, N. J. Pressure-fluid and power supplying mechanism. No. 1,002,862; Sept. 12; Sp. p. 1509; Gaz. vol. 170; p. 267.
Noyes, Florence H., Boston, Mass. Drinking-cup. No. 1,003,007; Sept. 12; Sp. p. 1833; Gaz. vol. 170; p. 317.
Noyes, La Verne W., Chicago, Ill. Pulley. No. 1,006,262; Oct. 17; Sp. p. 3737; Gaz. vol. 171; p. 657.
Noyes, Pierrepont B., assignor to Oneida Community Limited, Oneida, N. Y. Device for stretching pelts or skins. No. 1,010,789; Dec. 5; Sp. p. 872; Gaz. vol. 173; p. 136.
Nuckolls, Samuel H. (See Rhame and Nuckolls.)
Nuckolls, Samuel H., Charleston, assignor of one-third to W. W. Rhame, Summerville, S. C. Book-stand. No. 989,633; Apr. 18; Sp. p. 2881; Gaz. vol. 165; p. 509.
Nugent, Edmond D., Fort Necessity, La. Hoe-clamp. No. 991,352; May 2; Sp. p. 1127; Gaz. vol. 166; p. 188.
Nuhring, Charles and R., Cincinnati, Ohio. Hose-rack. No. 1,004,461; Sept. 26; Sp. p. 4998; Gaz. vol. 170; p. 879.
Nuhring, Robert. (See Nuhring, Charles and R.)
Null, Rodney E., Saybrook, Ill. Grain-car door. No. 999,583; Aug. 1; Sp. p. 770; Gaz. vol. 169; p. 133.
Nullmeyer, Frank H., Struthers, Ohio. Wire-fence clip. No. 984,438; Feb. 14; Sp. p. 2546; Gaz. vol. 163; p. 431.
Nullmeyer, Frank H., assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Crimping mechanism. No. 1,005,742; Oct. 10; Sp. p. 2564; Gaz. vol. 171; p. 441.
Nunamaker, James L., assignor of one-half to D. J. Bullock, Ames, Iowa. Miter-box. No. 998,199; July 18; Sp. p. 3457; Gaz. vol. 168; p. 623.
Nungesser Electric Battery Company, The. (See Harmon, Willis E., assignor.)
Nungesser Electric Battery Company, The. (See Nungesser, Philip P., assignor.)
Nungesser, John A., and G. F. Klein, Galion, Ohio. Electric railway-gate. No. 1,002,745; Sept. 5; Sp. p. 1264; Gaz. vol. 170; p. 189.
Nungesser, Philip P., assignor to The Nungesser Electric Battery Company, Cleveland, Ohio. Machine for filling dry batteries. No. 985,691; Feb. 28; Sp. p. 5289; Gaz. vol. 163; p. 931.
Nungesser, Philip P., assignor to The Nungesser Electric Battery Company, Cleveland, Ohio. Machine for filling dry batteries. No. 990,823; Apr. 25; Sp. p. 5509; Gaz. vol. 165; p. 949.
Nunn, Frederick W. (See Schrode, John L., assignor.)
Nürnberger Mechanische Grünmalzwendeanlagen G. m. b. H. (See Weinbeer, Gregor, assignor.)
Nussbaum, Emanuel, Vienna, Austria-Hungary. Producing acid albuminate. No. 1,005,456; Oct. 10; Sp. p. 1930; Gaz. vol. 171; p. 341.
Nussbaum, Guillaume A., London, England. Microphone. No. 1,012,217; Dec. 19; Sp. p. 4107; Gaz. vol. 173; p. 704.
Nusskern, Gustave, *et al.* (See Marcy, Herbert E., assignor.)
Nutry & Cook Manufacturing Co. (See Nutry, John, assignor.)
Nutry, John, Ridgewood, N. J., assignor to Nutry & Cook Manufacturing Co., Brooklyn, N. Y. Money-safe. No. 982,688; Jan. 24; Sp. p. 5499; Gaz. vol. 162; p. 948.
Nuway Reporters' Note Book Company. (See Shapro, Royal P., assignor.)
Nya Ackumulator Aktiebolaget Jungner. (See Estelle, Axel T. K., assignor.)
Nyč, Frederick F., Kerrville, Tex. Film developing, fixing, and washing apparatus. No. 1,000,287; Aug. 8; Sp. p. 2274; Gaz. vol. 169; p. 402.
Nydegger, Otto, assignor to R. Wedekind & Co. m. b. H., Uerdingen, Germany. Making pure ammonium nitrate. No. 986,204; Mar. 7; Sp. p. 932; Gaz. vol. 164; p. 151.
Nye, Alvin J., St. Petersburg, Fla. Combined elevating and fruit-cleaning machine. No. 997,081; July 4; Sp. p. 1031; Gaz. vol. 168; p. 165.
Nye, Charles F., deceased, (M. O. Nye, executrix,) and R. D. Hayward, Warsaw, Ind. Means for operating extension-steps and trap-doors on railway-cars. No. 999,246; Aug. 1; Sp. p. 111; Gaz. vol. 169; p. 20.
Nye, Herman J., Springfield, Ohio. Antislipping device. No. 983,393; Feb. 7; Sp. p. 293; Gaz. vol. 163; p. 49.
Nye, Minnie O., executrix. (See Nye and Hayward.)
Nye, Ralph E., Hobart, Okla. Garbage-crematory. No. 1,005,743; Oct. 10; Sp. p. 2566; Gaz. vol. 171; p. 441.
Nye Tool and Machine Works. (See Leaver, William H., assignor.)
Nygren, Albert F. and A. E., Bridgeport, Kans. Automatic bale-hook. No. 1,004,297; Sept. 26; Sp. p. 4660; Gaz. vol. 170; p. 824.
Nygren, Axel E. (See Nygren, Albert F. and A. E.)
Nygren, Oscar, assignor to Richey, Browne & Donald, Maspeth, N. Y. Composition for patterns. No. 980,888; Jan. 3; Sp. p. 1543; Gaz. vol. 162; p. 244.
Nystrom, Andrew V., *et al.* (See Nystrom, Carl F., assignor.)
Nystrom, Carl F., assignor of one-third to R. Seaquist, Braddock, and one-third to A. V. Nystrom, McKeesport, Pa. Roll-turning device. No. 1,006,871; Oct. 24; Sp. p. 5109; Gaz. vol. 171; p. 901.
O. A. Miller Treeing Machine Company. (See Eddins, Sextus A., assignor.)
O. A. Miller Treeing Machine Company. (See Hansen, John S., assignor.)
O. O. Storle Valve Company. (See Storle, Ole O., assignor.)
O'Banion, John W., Wellington, and J. Nichol, Yerington, Nev. Hay raking and bunching machine. No. 1,007,378; Oct. 31; Sp. p. 6212; Gaz. vol. 171; p. 1131.
O'Beirne, William H., Pauls Valley, Okla. Interlocking concrete panels. No. 994,027; May 30; Sp. p. 6841; Gaz. vol. 166; p. 1228.
O'Brien, Arthur, assignor of one-half to A. C. Kremer and W. M. Kirkpatrick, Butte, Mont. Radiator air-valve. No. 992,039; May 9; Sp. p. 2549; Gaz. vol. 166; p. 453.
O'Brien, Arthur, assignor of one-half to A. C. Kremer and W. M. Kirkpatrick, Butte, Mont. Automatic vacuum air-valve. No. 998,033; July 18; Sp. p. 3107; Gaz. vol. 168; p. 565.
O'Brien, Arthur, assignor of one-half to A. C. Kremer and W. M. Kirkpatrick, Butte, Mont. Automatic radiator-valve. No. 1,004,298; Sept. 26; Sp. p. 4661; Gaz. vol. 170; p. 825.
O'Brien, Daniel P., Woburn, Mass. Machine for treating hides, skins, and leather. No. 989,278; Apr. 11; Sp. p. 2084; Gaz. vol. 165; p. 356.
O'Brien, Emmet F., *et al.* (See O'Brien, James F., assignor.)
O'Brien, Frances, Carroll, Iowa. Device for fashioning hat-frames. No. 995,081; June 13; Sp. p. 2175; Gaz. vol. 167; p. 377.
O'Brien, Frank J., and J. E. Korts, Stamford, Conn. Means for automatically operating the balancing-planes of aeroplanes. No. 1,013,049; Dec. 26; Sp. p. 5908; Gaz. vol. 173; p. 1033.
O'Brien, James F. (See Fournier, Adelbert S., assignor.)
O'Brien, James F., deceased; W. B. Vestal, administrator, assignor of one-half to E. F. O'Brien and one-half to F. Fultz, Cloverdale, Ind. Wagon-box. No. 1,002,174; Aug. 29; Sp. p. 6323; Gaz. vol. 169; p. 1142.
O'Brien, James H., Ilion, N. Y. Flexible connection. No. 994,778; June 13; Sp. p. 1492; Gaz. vol. 167; p. 274.
O'Brien, John, Buffalo, N. Y. Moistener. No. 1,004,679; Oct. 3; Sp. p. 272; Gaz. vol. 171; p. 47.
O'Brien, John J., Shamokin, Pa. Tungsten incandescent lamp. No. 987,483; Mar. 21; Sp. p. 3645; Gaz. vol. 164; p. 649.
O'Brien, John P., and H. Stoddard, Philadelphia, Pa.; said Stoddard assignor to said O'Brien. Massage apparatus. No. 994,270; June 6; Sp. p. 347; Gaz. vol. 167; p. 59.
O'Brien, John T., and W. G. Sargent, Grand Rapids, Mich. Valve for automatic fire-extinguishers. No. 1,012,269; Dec. 19; Sp. p. 4207; Gaz. vol. 173; p. 722.
O'Brien, Joseph F. (See Spielman, Max H., assignor.)
O'Brien, Leo, Montclair, N. J. Stalling device for automobiles and other vehicles in case of accident. No. 997,409; July 11; Sp. p. 1693; Gaz. vol. 168; p. 307.
O'Brien, Leo, Montclair, N. J. Vehicle-signal. No. 1,001,881; Aug. 29; Sp. p. 5743; Gaz. vol. 169; p. 1048.
O'Brien, Martin H. (See Geer and Coty, assignors.)
O'Brien, Michael J., *et al.* (See Blakey, Richard M., assignor.)
O'Brien, Patrick J., Wickford, R. I. Shoe-dresser knife. No. 992,439; May 16; Sp. p. 3464; Gaz. vol. 166; p. 623.
O'Brien, Patrick J., Boston, Mass., assignor to James Barrett Manufacturing Company. Clean-out. No. 1,012,902; Dec. 26; Sp. p. 5574; Gaz. vol. 173; p. 983.
O'Brien, Robert P., Freeport, Pa. Printing-machine. No. 982,014; Jan. 17; Sp. p. 4123; Gaz. vol. 162; p. 688.
O'Brien, Thomas, Philadelphia, Pa. Switch-rod. No. 986,307; Mar. 7; Sp. p. 1142; Gaz. vol. 164; p. 184.
O'Brien, Thomas, Philadelphia, Pa. Adjustable crank for railway-switches. No. 993,789; May 30; Sp. p. 6372; Gaz. vol. 166; p. 1148.
O'Brien, Thomas, assignor to J. Ryan, Peoria, Ill. Window-washer. No. 987,010; Mar. 14; Sp. p. 2632; Gaz. vol. 164; p. 454.
O'Brien, Thomas H. (See Wickliffe, Charles E., assignor.)
O'Brien, Thomas H., Dawson, N. Mex. Coal-washing jigger. No. 987,642; Mar. 21; Sp. p. 3947; Gaz. vol. 164; p. 703.
O'Brien, Timothy J., assignor of one-half to C. Peterson, Chicago, Ill. Pump-valve. No. 1,005,744; Oct. 10; Sp. p. 2567; Gaz. vol. 171; p. 442.
O'Bryan, Francis L., South Framingham, Mass. Ticket-holder. No. 984,841; Feb. 21; Sp. p. 3439; Gaz. vol. 163; p. 607.
O'Byrne, Joseph F., Jarbidge, Nev. Gyroscopic top. No. 999,247; Aug. 1; Sp. p. 113; Gaz. vol. 169; p. 21.
O'Connell, James P., Crompton, R. I. Spooling-machine. No. 997,152; July 4; Sp. p. 1176; Gaz. vol. 168; p. 190.
O'Connell, James P., Crompton, R. I., assignor of one-half to E. L. Merrow, Malden, Mass. Knot-tying device. No. 1,008,190; Nov. 7; Sp. p. 1162; Gaz. vol. 172; p. 191.

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O'Connell, John H., Boston, Mass. Sanitary telephone-transmitter. No. 1,010,449; Dec. 5; Sp. p. 92; Gaz. vol. 173; p. 18.
O'Connell, Michael A., *et al.* (See Byrne and Wise, assignors.)
O'Connell, Patrick B., Magarth, Alberta, Canada. Gas-engine. No. 1,008,191; Nov. 7; Sp. p. 1164; Gaz. vol. 172; p. 191.
O'Connor, Edward, Chicago, Ill. Gasolene-can. No. 989,865; Apr. 18; Sp. p. 3372; Gaz. vol. 165; p. 588.
O'Connor, James, assignor to Autopiano Co., New York, N. Y. Perforated-note-sheet guide. (Reissue.) No. 13,283; Aug. 15; Sp. p. 3794; Gaz. vol. 169; p. 678.
O'Connor, James T., Chicago, Ill. Advertising-chair. No. 993,397; May 30; Sp. p. 5498; Gaz. vol. 166; p. 1013.
O'Connor, John, Jr., Excelsior, Wis. Vehicle-brake. No. 1,000,113; Aug. 8; Sp. p. 1904; Gaz. vol. 169; p. 344.
O'Connor, John F., Chicago, Ill. Journal-box and lid for railway-cars. No. 1,003,405; Sept. 12; Sp. p. 2645; Gaz. vol. 170; p. 455.
O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 981,675; Jan. 17; Sp. p. 3346; Gaz. vol. 162; p. 568.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 981,790; Jan. 17; Sp. p. 3589; Gaz. vol. 162; p. 609.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Fastening mechanism for refrigerator-car doors. No. 982,086; Jan. 17; Sp. p. 4271; Gaz. vol. 162; p. 711.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Fastening mechanism for refrigerator-car doors. No. 982,087; Jan. 17; Sp. p. 4273; Gaz. vol. 162; p. 712.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Antifriction side bearing for railway-cars. No. 983,080; Jan. 31; Sp. p. 6382; Gaz. vol. 162; p. 1109.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Roller side bearing. No. 984,236; Feb. 14; Sp. p. 2143; Gaz. vol. 163; p. 363.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 991,797; May 9; Sp. p. 2069; Gaz. vol. 166; p. 371.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction-buffer for railway passenger-cars. No. 992,440; May 16; Sp. p. 3464; Gaz. vol. 166; p. 623.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Combined spring and friction buffer for railway-cars. No. 992,441; May 16; Sp. p. 3466; Gaz. vol. 166; p. 624.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 992,442; May 16; Sp. p. 3469; Gaz. vol. 166; p. 624.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Testing mechanism. No. 994,531; June 6; Sp. p. 891; Gaz. vol. 167; p. 148.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Friction draft-rigging. No. 994,779; June 13; Sp. p. 1493; Gaz. vol. 167; p. 274.
O'Connor, John F., assignor to W. H. Miner, Chicago, Ill. Running-board for cars. No. 1,000,112; Aug. 8; Sp. p. 1903; Gaz. vol. 169; p. 343.
O'Connor, John F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Draft-rigging for railway-cars. No. 1,008,670; Nov. 14; Sp. p. 2363; Gaz. vol. 172; p. 399.
O'Connor, Margaret. (See Lynch, John J., assignor.)
O'Connor, Samuel S., Santa Monica, Cal. Well-drilling apparatus. No. 989,184; Apr. 11; Sp. p. 1873; Gaz. vol. 165; p. 325.
O'Connor, Sarah F., New York, N. Y. Washing-machine. No. 1,004,065; Sept. 26; Sp. p. 4142; Gaz. vol. 170; p. 744.
O'Day, Thomas, Racine, Wis. Fruit and vegetable slicer. No. 1,007,135; Oct. 31; Sp. p. 5699; Gaz. vol. 171; p. 1045.
O'Doherty, James J., Windsor, Victoria, Australia. Brake for road-vehicles. No. 998,979; July 25; Sp. p. 5235; Gaz. vol. 168; p. 932.
O'Donnell, James. (See Schuring, Harm, assignor.)
O'Donnell, John, Newburyport, Mass. Non-refillable bottle. No. 998,715; July 25; Sp. p. 4603; Gaz. vol. 168; p. 839.
O'Donnell, John B., St. Paul, Minn. Switch for railway-tracks. No. 997,410; July 11; Sp. p. 1695; Gaz. vol. 168; p. 308.
O'Donnell, Patrick J., Newark, N. J. Combined door-knob and push-button. No. 1,000,687; Aug. 15; Sp. p. 3179; Gaz. vol. 169; p. 575.
O'Donnell, Peter, Biwabik, Minn. Railway-spike and steel-tie fastener. No. 985,278; Feb. 28; Sp. p. 4384; Gaz. vol. 163; p. 790.
O'Donnell, Sidney J. (See Dwyer, Garrett, and O'Donnell.)
O'Farrell, W. V., *et al.* (See Silva, Claude L., assignor.)
O'Gorman Younie Company, The. (See Younie, Lewis E., assignor.)
O'Hara, John B., Philadelphia, Pa. Sanitary telephone-mouthpiece. No. 989,795; Apr. 18; Sp. p. 3233; Gaz. vol. 165; p. 565.
O'Hara, Walter W., Arlington, Mass., and A. C. Gaynor, Bridgeport, Conn., assignors to Carter-Crume Co., Ltd., Niagara Falls, N. Y. Holder for sales-books, &c. No. 985,692; Feb. 28; Sp. p. 5293; Gaz. vol. 163; p. 932.
O'Hearn, Edmund R. (See McGuigan, James J., assignor.)
O'Heir, Octavian G. I., Lowell, Mass. Garment-creaser. No. 986,850; Mar. 14; Sp. p. 2320; Gaz. vol. 164; p. 402.
O'Kelly, J. Morris, deceased, New York, N. Y.; K. O'Kelly, administratrix. Automobile torpedo. No. 998,383; July 18; Sp. p. 3898; Gaz. vol. 168; p. 692.
O'Kelly, Joseph G., Chicago, Ill. Speed-reducer for power-generators. No. 986,588; Mar. 14; Sp. p. 1766; Gaz. vol. 164; p. 313.
O'Kelly, Kathleen, administratrix. (See O'Kelly, J. Morris.)
O'Leary, Edward J., assignor to Risdon Iron and Locomotive Works, San Francisco, Cal. Hand-hole cover. No. 1,006,263; Oct. 17; Sp. p. 3738; Gaz. vol. 171; p. 657.
O'Leary, Edward J., assignor of one-half to J. W. Rolph, Jr., San Francisco, Cal. Sash-balance. No. 1,006,264; Oct. 17; Sp. p. 3740; Gaz. vol. 171; p. 657.
O'Leary, Frank J., assignor to Penberthy Injector Company, Detroit, Mich. Water-gage. No. 1,002,432; Sept. 5; Sp. p. 575; Gaz. vol. 170; p. 82.
O'Leary, Frank J., assignor to Penberthy Injector Company, Detroit, Mich. Ejector. No. 1,005,288; Oct. 10; Sp. p. 1561; Gaz. vol. 171; p. 281.
O'Leary, Humphrey, San Francisco, Cal. Combined dividers and center-punch. No. 1,009,256; Nov. 21; Sp. p. 3643; Gaz. vol. 172; p. 636.
O'Leary, John, Cohoes, N. Y. Orthopter. No. 1,011,836; Dec. 12; Sp. p. 3224; Gaz. vol. 173; p. 538.
O'Leary, Mathew J. (See Johnston and O'Leary.)
O'Maley, James P., Pittsburg, Pa. Truck and cover for the diamonds of base-ball fields. No. 987,593; Mar. 21; Sp. p. 3853; Gaz. vol. 164; p. 687.
O'Malley, Ira J., Chicago, Ill. Motor-fan. No. 985,537; Feb. 28; Sp. p. 4968; Gaz. vol. 163; p. 879.
O'Malley, Ira J., Chicago, Ill. Automatic pilot-light-controlled heating apparatus. No. 1,001,883; Aug. 29; Sp. p. 5745; Gaz. vol. 169; p. 1049.
O'Mara, John J., New York, N. Y. Percolator. No. 997,845; July 11; Sp. p. 2663; Gaz. vol. 168; p. 457.
O'Neall, James M., Fort Worth, Tex. Gas-generating apparatus. No. 998,546; July 18; Sp. p. 4212; Gaz. vol. 168; p. 746.
O'Neall, Walter H., *et al.* (See Michael, Anceal C., assignor.) (Reissue.)
O'Neil, Charles, St. Croix Falls, Wis. Sack-holder. No. 1,005,289; Oct. 10; Sp. p. 1562; Gaz. vol. 171; p. 282.
O'Neil, Daniel W. (See Craddock, Alfred, assignor.)
O'Neil, James, Gorgona, Canal Zone. Emergency-coupling. No. 1,000,190; Aug. 8; Sp. p. 2076; Gaz. vol. 169; p. 369.
O'Neil, John. (See Haynes, Charles M., assignor.)
O'Neil, John P. J., Portvue, Pa. Folding umbrella. No. 991,451; May 2; Sp. p. 1324; Gaz. vol. 166; p. 221.
O'Neill Bottle Machine Company. (See O'Neill, Frank, assignor.)
O'Neill, Frank, Zanesville, Ohio, assignor to O'Neill Bottle Machine Company, Terre Haute, Ind. Method of and apparatus for manufacturing glass bottles. No. 994,421; June 6; Sp. p. 662; Gaz. vol. 167; p. 113.
O'Neill, Frank, Zanesville, Ohio, assignor to O'Neill Bottle Machine Company, Terre Haute, Ind. Machine for manufacturing glassware. No. 994,422; June 6; Sp. p. 667; Gaz. vol. 167; p. 114.
O'Neill, James F., Trenton, N. J. Railway-tie. No. 1,009,555; Nov. 21; Sp. p. 4306; Gaz. vol. 172; p. 741.
O'Neill, John H., Springfield, Mo. Mortise-and-tenon hopper-joint machine. No. 987,163; Mar. 21; Sp. p. 2958; Gaz. vol. 164; p. 538.
O'Neill, John W. (See Coupal, Peter A., assignor.)
O'Neill, Lewis R., Montclair, N. J. Governor. No. 1,005,570; Oct. 10; Sp. p. 2208; Gaz. vol. 171; p. 381.
O'Neill, Richard J. (See Peterson and O'Neill.)
O'Neill, William, St. John, New Brunswick, Canada. Conveyer for transportation of logs, &c. No. 1,011,837; Dec. 12; Sp. p. 3230; Gaz. vol. 173; p. 538.
O'Reilly, James P., Phoenix, Ariz. Sash-cord guide. No. 1,000,288; Aug. 8; Sp. p. 2276; Gaz. vol. 169; p. 403.
O'Rourke, John F., New York, N. Y. Method of and means for raising or repairing vessels. No. 988,136; Mar. 28; Sp. p. 5073; Gaz. vol. 164; p. 900.
O'Rourke, William F., Chicago, Ill. Sash-fastening device. No. 984,594; Feb. 21; Sp. p. 2921; Gaz. vol. 163; p. 519.
O'Rourke, William F., assignor to Payson Manufacturing Company, Chicago, Ill. Skylight-lifter. No. 1,002,926; Sept. 12; Sp. p. 1683; Gaz. vol. 170; p. 290.
O'Sullivan, Humphrey, Lowell, Mass. Rubber-sole shoe. No. 981,106; Jan. 10; Sp. p. 2127; Gaz. vol. 162; p. 351.
O'Sullivan, James, Lowell, Mass. Foot-measurer. No. 1,010,451; Dec. 5; Sp. p. 94; Gaz. vol. 173; p. 19.
O'Sullivan, St. John, San Diego, Cal. Sanitary pocket-cuspidor. No. 995,709; June 20; Sp. p. 3520; Gaz. vol. 167; p. 620.
O'Toole, Edward, Gary, W. Va. Excavating-machine. No. 1,011,994; Dec. 19; Sp. p. 3593; Gaz. vol. 173; p. 627.
O'Toole, Edward, Gary, W. Va. Excavating-machine. No. 1,011,995; Dec. 19; Sp. p. 3597; Gaz. vol. 173; p. 628.
O'Toole, John, Colegrove, Cal. Windmill. No. 987,645; Mar. 21; Sp. p. 3953; Gaz. vol. 164; p. 704.

Alphabetical list of patentees—Continued.

O'Toole, John J., New York, assignor of one-half to S. P. Harrington, Corona, N. Y. Antistatic friction device. No. 997,085; July 4; Sp. p. 1040; Gaz. vol. 168; p. 167.
Oakes & Burger Co. (See Larsen, Turney, and Oakes, assignors.)
Oakleaf, Ernest, Moline, Ill. Fish-scaling device. No. 998,382; July 18; Sp. p. 3896; Gaz. vol. 168; p. 691.
Oakleaf, Hjalmar, Moline, Ill. Needle-threader. No. 985,624; Feb. 28; Sp. p. 5144; Gaz. vol. 163; p. 909.
Oakley, Clifford H., Trenton, N. J. Matting. No. 997,319; July 11; Sp. p. 1528; Gaz. vol. 168; p. 277.
Oates, Mercedes, Toronto, Ontario, Canada. Game apparatus. No. 983,925; Feb. 14; Sp. p. 1467; Gaz. vol. 163; p. 259.
Oathout, Arthur. (See Aaron and Oathout.)
Oats, Philomel B., Fort Towson, Okla. Combined square and rule. No. 988,652; Apr. 4; Sp. p. 780; Gaz. vol. 165; p. 125.
Obenchain, John A., Thomas, Ala. Sash-lock. No. 1,012,418; Dec. 19; Sp. p. 4508; Gaz. vol. 173; p. 772.
Obenchain, Oscar S., Waterloo, Iowa. Torpedo-fork. No. 983,394; Feb. 7; Sp. p. 294; Gaz. vol. 163; p. 50.
Obenhoff, Albert H., and D. J. Broderick, Gloversville, N. Y. Take-up for knitting-machines. No. 980,826; Jan. 3; Sp. p. 1388; Gaz. vol. 162; p. 222.
Oberhänsli, Friedrich, Bregenz, Austria-Hungary. Internal-combustion engine. No. 1,005,457; Oct. 10; Sp. p. 1931; Gaz. vol. 171; p. 341.
Oberhuber, William F., Philadelphia, Pa. Band-brake. No. 994,332; June 6; Sp. p. 470; Gaz. vol. 167; p. 81.
Oberle, Jacob F. (See White, Edward N., assignor.)
Obermann, Henry, Freistatt, Mo. Ventilator. No. 988,496; Apr. 4; Sp. p. 437; Gaz. vol. 165; p. 71.
Obermiller, Frank. (See Monper, John, assignor.)
Obernauer, Herman. (See Ryave and Obernauer.)
Oberreit, Paul E., assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Reducing indigo coloring-matters. No. 999,055; July 25; Sp. p. 5394; Gaz. vol. 168; p. 960.
Oberreit, Paul E., and F. M. Jahrmarkt, Mannheim, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Dehydration of caustic alkali. No. 983,834; Feb. 7; Sp. p. 1244; Gaz. vol. 163; p. 198.
Oblinger, Barrett C., assignor of one-half to A. H. C. Beatty, Independence, Mo. Smoke-consuming device. No. 996,665; July 4; Sp. p. 140; Gaz. vol. 168; p. 25.
Occhinto, Giuseppe. (See Braf, Girardi, and Occhinto.)
Occhinto, Stefano. (See Braf, Girardi, and Occhinto.)
Ochsner, Jacob, Zurich, Switzerland. Apparatus for discharging dust-carts into the furnaces of refuse-destructors. No. 985,830; Mar. 7; Sp. p. 137; Gaz. vol. 164; p. 25.
Ocumpaugh, Charles H., Rochester, N. Y. Razor. No. 983,639; Feb. 7; Sp. p. 816; Gaz. vol. 163; p. 131.
Ocumpaugh, Charles H., Rochester, N. Y. Razor. No. 983,640; Feb. 7; Sp. p. 819; Gaz. vol. 163; p. 131.
Ocumpaugh, Charles H., Rochester, N. Y. Voting-machine. No. 984,149; Feb. 14; Sp. p. 1932; Gaz. vol. 163; p. 332.
Ocumpaugh, Charles H., Rochester, N. Y. Interlocking mechanism for voting and other machines. No. 984,150; Feb. 14; Sp. p. 1943; Gaz. vol. 163; p. 333.
Ocumpaugh, Charles H., Rochester, N. Y. Key-resetting mechanism for voting-machines. No. 991,881; May 9; Sp. p. 2245; Gaz. vol. 166; p. 401.
Ocumpaugh, Charles H., Rochester, N. Y. Voting-machine. No. 991,882; May 9; Sp. p. 2249; Gaz. vol. 166; p. 401.
Ocumpaugh, Charles H., Rochester, N. Y. Device for independent voting. No. 992,040; May 9; Sp. p. 2552; Gaz. vol. 166; p. 454.
Ocumpaugh, Charles H., Rochester, N. Y. Voting-machine. No. 995,708; June 20; Sp. p. 3515; Gaz. vol. 167; p. 620.
Ocumpaugh, Charles H., Rochester, N. Y. Interlocking device for voting-machines. No. 996,027; June 20; Sp. p. 4195; Gaz. vol. 167; p. 729.
Ocumpaugh, Charles H., Rochester, N. Y. Voting-machine. No. 1,001,767; Aug. 29; Sp. p. 5486; Gaz. vol. 169; p. 1008.
Ocumpaugh, Charles H., Rochester, N. Y. Independent-voting mechanism. No. 1,003,645; Sept. 19; Sp. p. 3177; Gaz. vol. 170; p. 572.
Oddur Manufacturing Company. (See Sigurdsson, Oddur V., assignor.)
Odegard, Hans D., Drake, N. D. Tug-hook. No. 981,105; Jan. 10; Sp. p. 2126; Gaz. vol. 162; p. 351.
Odell, Edward F. (See Humason and Odell.)
Odell, Levi J., Glendora, assignor to Odell Manufacturing Company, Los Angeles, Cal. Safety-razor. No. 996,879; July 4; Sp. p. 578; Gaz. vol. 168; p. 95.
Odell, Levi J., Glendora, assignor to Odell Manufacturing Company, Los Angeles, Cal. Safety-razor. No. 1,007,379; Oct. 31; Sp. p. 6213; Gaz. vol. 171; p. 1132.
Odell Manufacturing Company. (See Odell, Levi J., assignor.)
Odem, David. (See Gardner and Odem.)
Oden, Lewis M., Raleigh, N. C. Scraper. No. 993,864; May 30; Sp. p. 6516; Gaz. vol. 166; p. 1174.
Odenbaugh, Charles H., and C. A. Crary, Middleport, Ohio. Pipe. No. 986,024; Mar. 7; Sp. p. 582; Gaz. vol. 164; p. 93.
Odenbrett, John H., Chicago, Ill. Corset. No. 996,666; July 4; Sp. p. 141; Gaz. vol. 168; p. 25.
Odenkirk, Harry C., Cleveland, Ohio. Railway-switch stand. No. 1,007,380; Oct. 31; Sp. p. 6215; Gaz. vol. 171; p. 1132.
Odhner, Valentin J., St. Petersburg, Russia. Mechanism for disengaging anchor-escapements in calculating-machines. No. 993,708; May 30; Sp. p. 6205; Gaz. vol. 166; p. 1121.
Odhner, Valentin J., St. Petersburg, Russia. Calculating-machine. No. 996,667; July 4; Sp. p. 143; Gaz. vol. 168; p. 25.
Odhner, Valentin J., St. Petersburg, Russia. Locking device for calculating-machines. No. 1,010,067; Nov. 28; Sp. p. 5353; Gaz. vol. 172; p. 959.
Oehmen, Rudolf, Münster, Germany. Device for delivering mail and the like to the upper floors of buildings. No. 988,281; Mar. 28; Sp. p. 5355; Gaz. vol. 164; p. 948.
Oehmler, Oscar R. (See Wilson and Oehmler.)
Oehring, Oscar, Berlin, Germany, assignor to American Stamp and Ticket Vending Machine Company, New York, N. Y. Apparatus for stamping letters and delivering receipts for the same. No. 995,631; June 20; Sp. p. 3360; Gaz. vol. 167; p. 592.
Oehrle, Emanuel, Omaha, Nebr. Combination-tool. No. 1,006,121; Oct. 17; Sp. p. 3407; Gaz. vol. 171; p. 605.
Oehrle, Emanuel, Omaha, Nebr. Combination square and protractor. No. 1,010,678; Dec. 5; Sp. p. 612; Gaz. vol. 173; p. 97.
Oelkers, John B., Newark, N. J. Embroidery-frame. No. 999,847; Aug. 8; Sp. p. 1287; Gaz. vol. 169; p. 251.
Oertzen, Gustav A., Dusseldorf-Obercassel, Germany. Hydraulic molding-machine. No. 992,379; May 16; Sp. p. 3348; Gaz. vol. 166; p. 603.
Oest, John M., *et al.* (See Feldra, Robert, assignor.)
Oesterreicher, Clarence F., Durbin, Fla. Fan. No. 997,082; July 4; Sp. p. 1033; Gaz. vol. 168; p. 166.
Oestreicher, Adolph A., Beeville, Tex. Sectional shelving. No. 984,593; Feb. 21; Sp. p. 2919; Gaz. vol. 163; p. 519.
Ofenbau-Gesellschaft M. B. H. (See Hohmann, Edmund, assignor.)
Ofenbau-Gesellschaft mit beschränkter Haftung. (See Riecke, Paul, assignor.)
Offenhauser, Jacob, Sacramento, Cal. Concrete fence-post. No. 1,012,419; Dec. 19; Sp. p. 4509; Gaz. vol. 173; p. 772.
Office Specialties Deluxe. (See Shepherd, Gilbert C., assignor.)
Offutt, Ira E., Whitney, Tex. Water-carrier. No. 1,000,541; Aug. 15; Sp. p. 2840; Gaz. vol. 169; p. 523.
Ogan, Lew, Portland, Oreg. Damper. No. 1,010,790; Dec. 5; Sp. p. 874; Gaz. vol. 173; p. 137.
Ogden, Floyd H., assignor of one-half to D. McMillan, Boston, Mass. Friction-clutch. No. 1,001,432; Aug. 22; Sp. p. 4799; Gaz. vol. 169; p. 864.
Ogden, Fredric D., deceased, Bayonne, N. J.; J. E. Ogden, administrator. Eyelet. No. 985,761; Feb. 28; Sp. p. 5452; Gaz. vol. 163; p. 956.
Ogden, Fredric D., deceased, Bayonne, N. J.; J. E. Ogden, administrator. Eyelet and the like. No. 985,762; Feb. 28; Sp. p. 5453; Gaz. vol. 163; p. 956.
Ogden, George J., assignor of one-fifth to M. M. Hay, one-fifth to J. Templeton, and one-fifth to R. J. Parke, Toronto, Ontario, Canada. Electric oven. No. 987,161; Mar. 21; Sp. p. 2952; Gaz. vol. 164; p. 537.
Ogden, John, Fall River, Mass. Shears. No. 1,005,287; Oct. 10; Sp. p. 1559; Gaz. vol. 171; p. 281.
Ogden, John E., administrator. (See Ogden, Fredric D.)
Ogden, John E., Brooklyn, N. Y. Bolt-anchor. No. 989,400; Apr. 11; Sp. p. 2349; Gaz. vol. 165; p. 397.
Ogden, Norman, Brunswick, near Melbourne, Victoria, assignor to A. Eckersley, Melbourne, Australia. Automatic disinfecting-closet. No. 984,696; Feb. 21; Sp. p. 3142; Gaz. vol. 163; p. 556.
Ogden, William P., Denver, Colo. Concentrator. No. 1,004,187; Sept. 26; Sp. p. 4449; Gaz. vol. 170; p. 787.
Ogier, Felix F., assignor of one-fourth to M. V. Conroy and W. Fitzgerald, Butte, Mont. Dirgible automobile-lamp. No. 988,135; Mar. 28; Sp. p. 5071; Gaz. vol. 164; p. 900.
Ogilvy, Walter S., New York, N. Y., and R. W. Smith, Marietta, Pa., assignors to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 988,653; Apr. 4; Sp. p. 781; Gaz. vol. 165; p. 125.
Ogle, George W. (See Bradrick, George M., assignor.)
Ogle, Harley A., Chicago, Ill. Drilling-machine. No. 983,395; Feb. 7; Sp. p. 295; Gaz. vol. 163; p. 50.
Ogle, Robert A., Chicago, Ill. Apparatus for handling loose material. No. 997,000; July 4; Sp. p. 863; Gaz. vol. 168; p. 138.
Oglesby, Samuel W., and F. R. Ayton, London, England. Suspending structure for fragile articles. No. 987,162; Mar. 21; Sp. p. 2955; Gaz. vol. 164; p. 538.
Ohio Blower Company, The. (See Swartwout, Denton K., assignor.)
Ohio Clay Company, The. (See Denison, William C., assignor.) (Reissue.)
Ohio Grease Lubricant Company, The. (See Lowry, Frank, assignor.) (Reissue.)

Alphabetical list of patentees—Continued.

Ohio Grease Lubricant Company, The. (See Ross, John C., assignor.)
Ohio Insulator Company, The. (See Austin, Arthur O., assignor.)
Ohio Pump and Brass Company, The. (See Weber, Mathew J., assignor.)
Ohio Varnish Company, The. (See Clapp, Ford M., assignor.)
Ohio Varnish Company, The. (See Coughlin, Joseph D., assignor.)
Ohio Varnish Company, The. (See Lamb, James B., assignor.)
Ohio Varnish Company, The. (See Patty, James S., assignor.)
Ohl, George A., Jr., Newark, N. J., assignor to George A. Ohl & Co. Power-press. No. 1,000,688; Aug. 15; Sp. p. 3180; Gaz. vol. 169; p. 576.
Ohl, George A., Jr., Newark, N. J., assignor to George A. Ohl & Co. Metal bending or forming dies. No. 1,003,197; Sept. 12; Sp. p. 2228; Gaz. vol. 170; p. 383.
Ohl, George A., Jr., Newark, N. J., assignor to George A. Ohl & Co. Power-press. No. 1,004,066; Sept. 26; Sp. p. 4144; Gaz. vol. 170; p. 745.
Ohliger, Willard, assignor to Frederick Stearns & Company, Detroit, Mich. Pharmaceutical product from the suprarenal glands and obtaining the same. No. 1,003,646; Sept. 19; Sp. p. 3180; Gaz. vol. 170; p. 573.
Ohlson, Anton, and C. A. Hallin, Tacoma, Wash. Fan-blower. No. 985,279; Feb. 28; Sp. p. 4385; Gaz. vol. 163; p. 791.
Ohlson, John E., Twin Falls, Idaho. Water-check. No. 993,272; May 23; Sp. p. 5225; Gaz. vol. 166; p. 937.
Ohlsson, Charles J., New York, N. Y. Grip-tread for vehicle-tires. No. 991,013; May 2; Sp. p. 391; Gaz. vol. 166; p. 67.
Ohlsson, Olof, Södertelge, Sweden. Internal-combustion engine. No. 980,552; Jan. 3; Sp. p. 817; Gaz. vol. 162; p. 132.
Ohlsson, Olof, Södertelge, assignor to G. O. Wallenberg, Stockholm, Sweden. Arresting device for centrifugal separators. No. 993,790; May 30; Sp. p. 6374; Gaz. vol. 166; p. 1149.
Ohlsson, Olof, Södertelge, assignor to G. O. Wallenberg, Stockholm, Sweden. Liner for centrifugal liquid-separators. No. 993,791; May 30; Sp. p. 6374; Gaz. vol. 166; p. 1149.
Ohman, John T., Worcester, Mass. Attachment for thimbles. No. 993,709; May 30; Sp. p. 6207; Gaz. vol. 166; p. 1122.
Ohmer Fare Register Company. (See Ohmer, John F., assignor.)
Ohmer Fare Register Company. (See Ohmer and Bridenbaugh, assignors.)
Ohmer, John F., Dayton, Ohio, assignor to Ohmer Fare Register Company, Rochester, N. Y. Fare-register. No. 987,643; Mar. 21; Sp. p. 3950; Gaz. vol. 164; p. 704.
Ohmer, John F., assignor to Ohmer Fare Register Company, Dayton, Ohio. Fare register and recorder. No. 992,381; May 16; Sp. p. 3354; Gaz. vol. 166; p. 604.
Ohmer, John F., and E. H. Bridenbaugh, assignors to Ohmer Fare Register Company, Dayton, Ohio. Ticket issuing and recording mechanism. No. 992,380; May 16; Sp. p. 3349; Gaz. vol. 166; p. 603.
Ohmer, Wilfred I., D. B. Whistler, and J. E. McAllister, assignors to The Recording and Computing Machines Company, Dayton, Ohio. Register and recorder. No. 990,666; Apr. 25; Sp. p. 5163; Gaz. vol. 165; p. 895.
Ohmer, Wilfred I., D. B. Whistler, and J. E. McAllister, assignors to The Recording and Computing Machine Company, Dayton, Ohio. Operating mechanism for registers. No. 999,848; Aug. 8; Sp. p. 1289; Gaz. vol. 169; p. 251.
Ohmer, Wilfred I., D. B. Whistler, and J. E. McAllister, assignors to The Recording and Computing Machine Company, Dayton, Ohio. Operating mechanism for registers. No. 1,000,542; Aug. 15; Sp. p. 2843; Gaz. vol. 169; p. 523.
Ohnstrand, Enoch, assignor to Art Metal Construction Company, Jamestown, N. Y. Metal-door construction. No. 981,875; Jan. 17; Sp. p. 3782; Gaz. vol. 162; p. 639.
Ohnstrand, Enoch, Syracuse, assignor to Art Metal Construction Co., Jamestown, N. Y. Metal door-frame. No. 981,937; Jan. 17; Sp. p. 3962; Gaz. vol. 162; p. 662.
Oien, Peter M., Everett, Wash. Butter-cutting machine. No. 1,007,598; Oct. 31; Sp. p. 6697; Gaz. vol. 171; p. 1206.
Oil and Waste Saving Machine Company, The. (See Patterson, Thomas S., assignor.)
Oil Well Supply Company. (See Heggem, Alfred G., assignor.)
Oil Well Supply Company. (See Mack, Patrick H., assignor.)
Oilar, Arthur A., Pittville, Cal. Lock-nut. No. 985,443; Feb. 28; Sp. p. 4749; Gaz. vol. 163; p. 845.
Oilar, Arthur A., Pittville, Cal. Automobile tire-protector. No. 993,710; May 30; Sp. p. 6208; Gaz. vol. 166; p. 1122.
Oiler, Frank E., assignor to The Copyograph Manufacturing Company, Omaha, Nebr. Combined photographing and developing apparatus. No. 983,926; Feb. 14; Sp. p. 1468; Gaz. vol. 163; p. 259.
Okey, Perry, assignor of one-half to S. L. Okey, Columbus, Ohio. Tank for liquids. No. 984,151; Feb. 14; Sp. p. 1945; Gaz. vol. 163; p. 333.
Okey, Perry, assignor of one-half to S. L. Okey, Columbus, Ohio. Internal-combustion engine. No. 988,021; Mar. 28; Sp. p. 4849; Gaz. vol. 164; p. 862.
Okey, Perry, assignor of one-half to S. L. Okey, Columbus, Ohio. Governor for gas-engines. No. 989,030; Apr. 11; Sp. p. 1552; Gaz. vol. 165; p. 271.
Okey, Sarah L. (See Okey, Perry, assignor.)
Okrassa, Roberto F. E., Antigua, Guatemala. Means for cooling internal-combustion engines. No. 1,003,290; Sept. 12; Sp. p. 2429; Gaz. vol. 170; p. 418.
Okun, Morris B., Seattle, Wash. Corner bed-rail fastening. No. 1,001,882; Aug. 29; Sp. p. 5744; Gaz. vol. 169; p. 1048.
Olander, Arvid, New York, assignor, by mesne assignments, of one-half to C. Smith, Brooklyn, N. Y. Hoisting-rigging. No. 980,330; Jan. 3; Sp. p. 297; Gaz. vol. 162; p. 53.
Olander, Frank. (See Blomberg, Edwin C., assignor.)
Old Bridge Enamelled Brick & Tile Company, The. (See Rivers, William E., assignor.)
Olden, Emory A. (See Rea and Olden.)
Olden, William Q., Joliet, Ill. Dump-car. No. 1,000,753; Aug. 15; Sp. p. 3315; Gaz. vol. 169; p. 599.
Oldfield, John, Chicago, Ill. Combined roller and ice skate. No. 992,443; May 16; Sp. p. 3470; Gaz. vol. 166; p. 624.
Oldham, James P. (See Carroll, Houston M., assignor.)
Oldham, Samuel, Philadelphia, Pa., assignor to George Oldham & Son Company. Pneumatic hammer. No. 996,880; July 4; Sp. p. 579; Gaz. vol. 168; p. 96.
Olds, Alfred W., Windsor, Conn. Machine for stringing tobacco-leaves. No. 980,430; Jan. 3; Sp. p. 518; Gaz. vol. 162; p. 88.
Olds, David E., Newark, N. J. Marker for underground-conduit connections. No. 1,004,188; Sept. 26; Sp. p. 4452; Gaz. vol. 170; p. 788.
Olds Gas Power Company. (See Close, Frederick B., assignor.)
Olds, Ransom E., Lansing, Mich. Tire. No. 1,008,051; Nov. 7; Sp. p. 869; Gaz. vol. 172; p. 149.
Oleson, John B., Fort Atkinson, Wis. Stanchion. No. 1,001,071; Aug. 22; Sp. p. 4057; Gaz. vol. 169; p. 745.
Oleson, Olaf E. (See Sargent, Frederick, assignor.)
Olier, André, Clermont-Ferrand, Puy-de-Dôme, France. Calender. No. 1,003,496; Sept. 19; Sp. p. 2843; Gaz. vol. 170; p. 520.
Olin, Fred C., Buffalo, N. Y. Governor for gas-engines &c. No. 984,439; Feb. 14; Sp. p. 2547; Gaz. vol. 163; p. 431.
Olin, Warren R., Caro, Mich. Label-holder. No. 1,008,192; Nov. 7; Sp. p. 1165; Gaz. vol. 172; p. 191.
Olinger, Elemuel I. and E. B., Pollock, Mo. Reeling apparatus. No. 1,010,517; Dec. 5; Sp. p. 268; Gaz. vol. 173; p. 42.
Olinger, Ernest B. (See Olinger, Elemuel I. and E. B.)
Oliva, John C., Marengo, Iowa. Shoe-scraping device. No. 988,207; Mar. 28; Sp. p. 5206; Gaz. vol. 164; p. 923.
Olive Tablet Company, The. (See Edwards, Frank M., assignor.)
Oliver Chilled Plow Works. (See Paul, William L., assignor.)
Oliver, Doctor F., San Francisco, Cal. Table furniture. No. 1,000,114; Aug. 8; Sp. p. 1906; Gaz. vol. 169; p. 344.
Oliver, Edward F., Monroe, Ind. Automatic fire-alarm. No. 983,396; Feb. 7; Sp. p. 299; Gaz. vol. 163; p. 50.
Oliver, Ellis S., Newark, N. J. Filing inclosure or casing for the records of talking-machines. No. 989,031; Apr. 11; Sp. p. 1553; Gaz. vol. 165; p. 272.
Oliver, Frederick, Charlotte, N. C. Wrecking apparatus. No. 984,152; Feb. 14; Sp. p. 1946; Gaz. vol. 163; p. 333.
Oliver, Henry E. (See Morris and Oliver.)
Oliver, Herbert R. (See Rau, Henry, Jr., assignor.)
Oliver, Herman E., assignor of one-half to F. W. Jones, Huntington, W. Va. Safety wagon-nut. No. 993,865; May 30; Sp. p. 6517; Gaz. vol. 166; p. 1175.
Oliver, Jesse L., Victoria, Tex. Wrench. No. 1,003,060; Sept. 12; Sp. p. 1930; Gaz. vol. 170; p. 334.
Oliver, Joe A., Seneca, Nebr. Mower buncher attachment. No. 1,003,061; Sept. 12; Sp. p. 1931; Gaz. vol. 170; p. 334.
Oliver, John, Westbourne, Manitoba, Canada. Grain-door. No. 986,746; Mar. 14; Sp. p. 2094; Gaz. vol. 164; p. 366.
Oliver, Joseph W., assignor to Oliver Machinery Company, Grand Rapids, Mich. Attachment for circular-saw machines. No. 995,082; June 13; Sp. p. 2176; Gaz. vol. 167; p. 377.
Oliver, Louis E., Maywood, and A. Cureton, Chicago, Ill. Adjusting apparatus for brake-beams in street-car brake-rigging. No. 999,849; Aug. 8; Sp. p. 1296; Gaz. vol. 169; p. 251.
Oliver, Louis E., Maywood, and A. Cureton, Chicago, Ill. Adjusting apparatus for brake-rigging. No. 1,002,433; Sept. 5; Sp. p. 576; Gaz. vol. 170; p. 82.
Oliver Machinery Company. (See Haigh, William B., assignor.)
Oliver Machinery Company. (See Oliver, Joseph W., assignor.)
Oliver Machinery Company. (See Reinhard, George F., assignor.)

Alphabetical list of patentees—Continued.

Oliver, Robert, *et al.* (See Crocker, James, assignor.)
Oliver Typewriter Company, The. (See Griffiths, George J., assignor.)
Oliver Typewriter Company, The. (See Griffiths and Roderick, assignors.)
Oliver Typewriter Company, The. (See Knapp, Theron L., assignor.)
Oliver Typewriter Company, The. (See Schwartz, Emanuel, assignor.)
Oliver Typewriter Company, The. (See Taylor, James H., assignor.)
Oliver, Walter, Broad Brook, Conn. Picker. No. 983,927; Feb. 14; Sp. p. 1473; Gaz. vol. 163; p. 260.
Oliver, Wilbert R. (See Verhoeven and Oliver.)
Olivetti, Camillo, Ivrea, Italy. Type-writer. No. 993,189; May 23; Sp. p. 5052; Gaz. vol. 166; p. 912.
Ollagnier, Barthélemy. (See Chavanne and Ollagnier.)
Olmsted, Alexander H., Havre, France, assignor to Westinghouse Electric and Manufacturing Company. Power system. No. 992,583; May 16; Sp. p. 3771; Gaz. vol. 166; p. 674.
Olmsted, Erastus R., Saratoga Springs, N. Y. Looping device for knitting-machines. No. 983,757; Feb. 7; Sp. p. 1071; Gaz. vol. 163; p. 171.
Olmsted, Henry, Jr., Brooklyn, assignor to Barrett Manufacturing Company, New York, N. Y. Roofing. No. 1,012,903; Dec. 26; Sp. p. 5574; Gaz. vol. 173; p. 983.
Olmsted, Julius A., Meriden, Conn. Alarm-clock. No 985,693; Feb. 28; Sp. p. 5296; Gaz. vol. 163; p. 932.
Olmsted, Julius A., Meriden, Conn. Recording apparatus. No. 991,532; May 9; Sp. p. 1502; Gaz. vol. 166; p. 281.
Olney, Frederick C., assignor of forty-five one-hundredths to H. L. Doble, Spokane, Wash. Rotary engine. No. 996,668; July 4; Sp. p. 146; Gaz. vol. 168; p. 26.
Oiney, George, Hobart, Tasmania, Australia. Spraying attachment for garden-hose. No. 994,780; June 13; Sp. p. 1495; Gaz. vol. 167; p. 275.
Olschner, Clarence E. (See Mahon and Olschner.)
Olschner, Clarence E. (See Moss and Olschner.)
Olsen, August H., C. Pedersen, and J. Andersen, Minneapolis, Minn. Brick-machine. No. 981,219; Jan. 10; Sp. p. 2416; Gaz. vol. 162; p. 391.
Olsen, Herman E., and E. A. Schmidt, Copenhagen, Denmark. Machine for wiring corks in bottles. No. 992,240; May 16; Sp. p. 3005; Gaz. vol. 166; p. 554.
Olsen, John, Lyle, Minn. Metal culvert. No. 1,010,450; Dec. 5; Sp. p. 93; Gaz. vol. 173; p. 18.
Olsen, Marius B., Chicago, Ill. Egg-beater. No. 991,883; May 9; Sp. p. 2255; Gaz. vol. 166; p. 402.
Olsen, Matthew S., Harvey, N. D. Fountain-pen. No. 983,165; Jan. 31; Sp. p. 6533; Gaz. vol. 162; p. 1136.
Olsen, Ole, Fruitvale, Cal. Pneumatic pressure-gage. No. 996,358; June 27; Sp. p. 4981; Gaz. vol. 167; p. 877.
Olsen, Ole, Fruitvale, assignor of one-half to L. Wiener, Alameda, Cal. Pneumatic-pressure gage. No. 981,153; Feb. 14; Sp. p. 1948; Gaz. vol. 163; p. 334.
Olsen, Peter C. (See Dawes, Olsen, and Day.)
Olsen, Simon D., Brooklyn, N. Y., assignor to Precision Glass Grinding Machine Company, Sioux Falls, S. D. Grinding-machine. No. 1,011,478; Dec. 12; Sp. p. 2418; Gaz. vol. 173; p. 414.
Olsen, Svend, Halle, Germany. Carbureter. No. 990,159; Apr. 18; Sp. p. 3984; Gaz. vol. 165; p. 687.
Olsen, Thomas S. (See Swenson and Olsen.)
Olsen, Victor, and O. Damm, Detroit, Mich. Metallic and glass construction. No. 982,015; Jan. 17; Sp. p. 4126; Gaz. vol. 162; p. 688.
Olsen, Waldemar J. P., Brooklyn, N. Y. Puzzle or toy. No. 1,004,680; Oct. 3; Sp. p. 274; Gaz. vol. 171; p. 48.
Olson, Alma A., and G. H. Blood, Preston, Idaho. Lock and key. No. 1,011,479; Dec. 12; Sp. p. 2424; Gaz. vol. 173; p. 414.
Olson, Andrew, Superior, Wis. Car-door. No. 989,032; Apr. 11; Sp. p. 1558; Gaz. vol. 165; p. 272.
Olson, Arthur J., Osceola, Mich. Spike. No. 985,625; Feb. 28; Sp. p. 5145; Gaz. vol. 163; p. 909.
Olson, August. (See Olson, John P., A., and C.)
Olson, August, Philadelphia, Pa., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon the edges of soles of boots and shoes. No. 993,543; May 30; Sp. p. 5822; Gaz. vol. 166; p. 1063.
Olson, Benjamin S., Little Falls, Wash. Railway-tie replacer. No. 1,006,122; Oct. 17; Sp. p. 3411; Gaz. vol. 171; p. 606.
Olson, C. J. (See Olson, John L., assignor.)
Olson, Charles. (See Olson, John P., A., and C.)
Olson, Charles, Grand Rapids, Mich. Level. No. 995,030; June 13; Sp. p. 2054; Gaz. vol. 167; p. 359.
Olson, Charles J., Muskegon, Mich. Pneumatic saw. No. 982,851; Jan. 31; Sp. p. 5863; Gaz. vol. 162; p. 1032.
Olson, Charles J., Muskegon, Mich. Rotary motor. No. 992,582; May 16; Sp. p. 3768; Gaz. vol. 166; p. 674.
Olson, Edward, assignor of one-eighth to J. D. Swalestuen, one-eighth to O. O. Herheim, one-eighth to L. C. Benson, and one-eighth to H. Holvig, Jasper, Minn. Grain-shocker. No. 997,083; July 4; Sp. p. 1034; Gaz. vol. 168; p. 166.
Olson, Ezra B., Cross Fork, Pa. Saw-handle. No. 982,986; Jan. 31; Sp. p. 6164; Gaz. vol. 162; p. 1077.
Olson, Frank, Niles, Ill. Onion-harvesting machine. No. 989,279; Apr. 11; Sp. p. 2086; Gaz. vol. 165; p. 356.
Olson, Fred, Clyde, Kans. Culvert. No. 1,001,978; Aug. 29; Sp. p. 5956; Gaz. vol. 169; p. 1079.
Olson, Gustaf R., New Brighton, assignor of one-half to J. P. Hartwig, St. Paul, Minn. Safety-lock for gas-burners. No. 988,378; Apr. 4; Sp. p. 197; Gaz. vol. 165; p. 32.
Olson, Gustave R., Plattsmouth, Nebr. Photographic-printing machine. No. 994,271; June 6; Sp. p. 349; Gaz. vol. 167; p. 60.
Olson, Gustave R., Plattsmouth, Nebr. Gage for print-holding frames. No. 1,005,869; Oct. 17; Sp. p. 2847; Gaz. vol. 171; p. 518.
Olson, Gustave R., Plattsmouth, Nebr. Photographic-printing machine. No. 1,008,362; Nov. 14; Sp. p. 1619; Gaz. vol. 172; p. 291.
Olson, Halvor, Duluth, Minn. Combined comb case and cleaning device. No. 988,379; Apr. 4; Sp. p. 197; Gaz. vol. 165; p. 32.
Olson, Hector, and C. M. Johnson, Morris, Ill. Convertible harrow and cultivator. No. 984,291; Feb. 14; Sp. p. 2267; Gaz. vol. 163; p. 383.
Olson, Hugo F., Dorchester, Mass. Beam-compass. No. 1,001,433; Aug. 22; Sp. p. 4800; Gaz. vol. 169; p. 865.
Olson, John, Vancouver, British Columbia, Canada. Fish-hook. No. 986,747; Mar. 14; Sp. p. 2095; Gaz. vol. 164; p. 367.
Olson, John, and B. L. Petzke, Belgrade, Minn. Folding bedstead. No. 987,736; Mar. 28; Sp. p. 4183; Gaz. vol. 164; p. 764.
Olson, John L., Bisbee, assignor to C. J. Olson, Douglas, Ariz. Pen and pencil clip. No. 993,190; May 23; Sp. p. 5055; Gaz. vol. 166; p. 912.
Olson, John P., A., and C., Gladstone, Mich. Horse-hitching device. No. 983,397; Feb. 7; Sp. p. 300; Gaz. vol. 163; p. 51.
Olson, John W. (See Staff and Olson.)
Olson, Karl E., Irvington, N. J. Gilding film or leaf. No. 992,743; May 16; Sp. p. 4085; Gaz. vol. 166; p. 729.
Olson, Karl O., Chicago, Ill., assignor to Single Service Package Corporation of America, New York, N. Y. Apparatus for inserting closures in vessels. No. 1,010,304; Nov. 28; Sp. p. 5826; Gaz. vol. 172; p. 1037.
Olson, Martin, Coeur d'Alene, Idaho. Automobile sleighing attachment. No. 1,006,265; Oct. 17; Sp. p. 3742; Gaz. vol. 171; p. 658.
Olson, Mauritz. (See Bradford and Olson.)
Olson, Nels, Birmingham, Ala. Device for cleaning ash-pans of locomotives. No. 987,591; Mar. 21; Sp. p. 3847; Gaz. vol. 164; p. 685.
Olson, Oliver, assignor of one-third to C. S. Hoyt, Clarinda, Iowa. Wire brush. No. 1,009,335; Nov. 21; Sp. p. 3817; Gaz. vol. 172; p. 665.
Olson, Olof, Reedley, Cal. Tray-truck. No. 987,592; Mar. 21; Sp. p. 3851; Gaz. vol. 164; p. 686.
Olson, Oscar A., Eagle Bend, Minn. Pump-holder. No. 1,010,945; Dec. 5; Sp. p. 1210; Gaz. vol. 173; p. 191.
Olson, Swan P., Kenora, Ontario, assignor to E. W. Kneeland, Winnipeg, Canada. Grain-door for cars. No. 1,007,726; Nov. 7; Sp. p. 160; Gaz. vol. 172; p. 26.
Olsson, Emil, Bofors, Sweden. Hydraulic brake for guns with recoiling barrels. No. 997,411; July 11; Sp. p. 1695; Gaz. vol. 168; p. 308.
Oltsch, George J., assignor to Fabric Roll Protector Co., South Bend, Ind. Fabric-roll-edge protector. No. 996,510; June 27; Sp. p. 5297; Gaz. vol. 167; p. 929.
Oltsch, George J., assignor to Fabric Roll Protector Co., South Bend, Ind. Fabric-roll-edge protector. No. 996,511; June 27; Sp. p. 5298; Gaz. vol. 167; p. 929.
Omalia, Matthew, assignor of one-third to D. M. Reynolds and J. Reynolds, one-sixth to J. F. Saltry, and one-sixth to W. N. Brooks, Scranton, Pa. Spindle-lock. No. 998,545; July 18; Sp. p. 4210; Gaz. vol. 168; p. 746.
Oman, Amos H. (See Fritz, Julius L., assignor.)
Oman, John, Washington, D. C. Stairway construction. No. 987,737; Mar. 28; Sp. p. 4184; Gaz. vol. 164; p. 764.
Omberg, Edward, Hawley, Minn. Sifter. No. 983,398; Feb. 7; Sp. p. 302; Gaz. vol. 163; p. 51.
Omick, William K., Detroit, Mich. Sheath for vehicle wheels. No. 985,538; Feb. 28; Sp. p. 4971; Gaz. vol. 163; p. 880.
Omizzolo, Richard, Lincoln, N. J. Gearing. No. 987,484; Mar. 21; Sp. p. 3646; Gaz. vol. 164; p. 649.
Onderdonk, J. R., *et al.* (See Pierce, Franklin A., assignor.)
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Sewing Machine Company, Chicago, Ill. Feeding mechanism for blindstitch sewing-machines. No. 982,219; Jan. 17; Sp. p. 4514; Gaz. vol. 162; p. 757.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Sewing Machine Company, Chicago, Ill. Feeding or ruffling mechanism for sewing-machines. No. 990,160; Apr. 18; Sp. p. 3985; Gaz. vol. 165; p. 687.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Thread-controller for sewing-machines. No. 993,191; May 23; Sp. p. 5057; Gaz. vol. 166; p. 912.
Onderdonk, Lansing, New York, N. Y., assignor to Union Special Sewing Machine Company, Chicago, Ill. Two-needle sewing-machine. No. 999,179; July 25; Sp. p. 5616; Gaz. vol. 168; p. 998.

Alphabetical list of patentees—Continued.

Ondra, Frank, Ferreira, Johannesburg, Transvaal. Apparatus for precipitation treatment of liquid. No. 1,003,781; Sept. 19; Sp. p. 3482; Gaz. vol. 170; p. 619.
Oneal, Davis M., Pine Bluff, Ark. Insect-destroying device. No. 1,012,420; Dec. 19; Sp. p. 4510; Gaz. vol. 173; p. 772.
Oneal, Glen, Jackson, Mont. Animal-trap. No. 982,157; Jan. 17; Sp. p. 4393; Gaz. vol. 162; p. 735.
Oneal, Maurice H., Milton, Pa. Centering device. No. 986,205; Mar. 7; Sp. p. 934; Gaz. vol. 164; p. 151.
Oneida Community. (See Freeman, Herbert H., assignor.)
Oneida Community Limited. (See Allen and Ellis, assignors.)
Oneida Community Limited. (See Noyes, Pierrepont B., assignor.)
Oneida Community Limited. (See Skinner, Theodore H., assignor.)
Onions, George I., and G. Adolphson, Buffalo, N. Y. Radiator for cooling fluids. No. 989,185; Apr. 11; Sp. p. 1875; Gaz. vol. 165; p. 325.
Onken, Johann, Wiefelstede, Germany. Speed-indicator for motor-cars. No. 987,644; Mar. 21; Sp. p. 3952; Gaz. vol. 164; p. 704.
Onken, Oscar F., Cincinnati, Ohio. Display device. No. 1,007,481; Oct. 31; Sp. p. 6422; Gaz. vol. 171; p. 1167.
Onken, Oscar F., Cincinnati, Ohio. Auxiliary table-top. No. 1,007,727; Nov. 7; Sp. p. 162; Gaz. vol. 172; p. 27.
Ono, Tadashi, Tokyo, Japan. Journal-box. No. 1,012,218; Dec. 19; Sp. p. 4109; Gaz. vol. 173; p. 705.
Onstead, Augustus G. (See Watts and Onstead.)
Ontario Nickel Company, The. (See Dow, Gates, and Schaefer, assignors.)
Ontario Type Machine Company, The. (See Barber, Ernest B., assignor.)
Oosdyke, Marinues, Grand Rapids, Mich. Skate-sharpener. No. 1,006,000; Oct. 17; Sp. p. 3135; Gaz. vol. 171; p. 563.
Op de Hipt, Hermann, Wehr, Germany. Jar-closure. No. 997,505; July 11; Sp. p. 1876; Gaz. vol. 168; p. 338.
Opdahl, Carl, Sheldon, N. D. Egg-beater. No. 1,002,434; Sept. 5; Sp. p. 579; Gaz. vol. 170; p. 83.
Openshaw, George C., Birmingham, Ala. Novelty match-safe. No. 998,384; July 18; Sp. p. 3907; Gaz. vol. 168; p. 692.
Opfergelt, Jules, Honolulu, Hawaii. Conveyer. No. 991,353; May 2; Sp. p. 1128; Gaz. vol. 166; p. 188.
Opheim, Gullick M., Beaver Creek, Minn. Sliding-door latch. No. 988,806; Apr. 4; Sp. p. 1102; Gaz. vol. 165; p. 176.
Opie, Harry T., *et al.* (See Banta, Milton L., assignor.)
Opl, Carl, assignor to Erste Oesterreichische Sodafabrik, Hruschau, Austria-Hungary. Manufacture of sulfuric acid. No. 1,012,421; Dec. 19; Sp. p. 4512; Gaz. vol. 173; p. 772.
Opp, John R. (See Follett, Frank E., assignor.)
Oppenheim, Albert, New York, N. Y., and E. Cleary, assignors to The Connecticut Web and Buckle Co., Bridgeport, Conn. Suspender cast-off. No. 981,676; Jan. 17; Sp. p. 3350; Gaz. vol. 162; p. 569.
Opperman, Louisa. (See Jaegle, William C., assignor.)
Optenberg, John H., Sheboygan, Wis. Flanging-clamp. No. 1,003,497; Sept. 19; Sp. p. 2845; Gaz. vol. 170; p. 520.
Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Gräul, Franz, assignor.)
Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Jacob and Bernick, assignors.)
Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Kaemmerer, Paul, assignor.)
Optische Anstalt C. P. Goerz Aktiengesellschaft. (See Schmuck, Joseph, assignor.)
Oquist, Willard C., assignor of one-half to L. M. Schmidt, New Britain, Conn. Bicycle shock-absorber. No. 1,000,115; Aug. 8; Sp. p. 1907; Gaz. vol. 169; p. 344.
Orahood, Harper M., executor. (See Nesmith, John W.)
Orcutt, Charles D., North Tonawanda, assignor to Buffalo Sled Company, Buffalo, N. Y. Shovel. No. 990,898; May 2; Sp. p. 148; Gaz. vol. 166; p. 28.
Ord, Charles E., Brooklyn township, Cuyahoga county, Ohio. Rendering apparatus. No. 980,665; Jan. 3; Sp. p. 1065; Gaz. vol. 162; p. 169.
Ord, William D., Landgraff, W. Va. Load transferring and depositing apparatus. No. 990,380; Apr. 25; Sp. p. 4509; Gaz. vol. 165; p. 796.
Ord, William D., Landgraff, W. Va. Locking device for dumping-receptacles. No. 990,381; Apr. 25; Sp. p. 4514; Gaz. vol. 165; p. 797.
Ordway, Albert H., South Framingham, Mass. Chair-base. No. 1,007,006; Oct. 24; Sp. p. 5393; Gaz. vol. 171; p. 945.
Ordway, Charles, New York, N. Y. Vacuum evaporating apparatus. No. 1,009,782; Nov. 28; Sp. p. 4764; Gaz. vol. 172; p. 862.
Ordway, Daniel L., and J. W. Brown, Lakewood, assignors to National Carbon Company, Cleveland, Ohio. Dry battery. No. 1,011,992; Dec. 19; Sp. p. 3587; Gaz. vol. 173; p. 627.
Ordway, Fred L., Portland, Me. Needle-valve. No. 997,506; July 11; Sp. p. 1876; Gaz. vol. 168; p. 338.
Ore Desulphurization Company. (See Case, Charles A., assignor.)
Orewiler, Benjamin F., Chicago, Ill. Hose-supporter clasp. No. 1,012,422; Dec. 19; Sp. p. 4513; Gaz. vol. 173; p. 773.
Orgaard, Carl, Wheelock, assignor of one-half to J. O. Halvorson, Williston, N. D. Lantern. No. 982,852; Jan. 31; Sp. p. 5868; Gaz. vol. 162; p. 1033.
Oriental Tissue Company. (See Ker, Walter A., assignor.)
Orleans Dry Kiln & Stacker Co. (See Graham, Willie, assignor.)
Orlopp, Piatt M., Indianapolis, Ind. Clutch-regulator. No. 982,088; Jan. 17; Sp. p. 4276; Gaz. vol. 162; p. 712.
Orme, Robert, assignor of one-half to J. M. Evans, Racine, Wis. Roller-screen. No. 992,241; May 16; Sp. p. 3010; Gaz. vol. 166; p. 554.
Ormsby, Charles C. (See Morris, Thomas F., assignor.)
Ormsby, Erle S. (See Chappell and Ormsby.)
Orr, Edward, North Yakima, Wash. Fly-trap attachment for screen-doors. No. 985,626; Feb. 28; Sp. p. 5146; Gaz. vol. 163; p. 909.
Orr, Francis J., Buffalo, N. Y., assignor to Petroleum Gas Generator Company, Phoenix, Ariz. System and apparatus for generating and burning oil-gas. No. 1,013,050; Dec. 26; Sp. p. 5910; Gaz. vol. 173; p. 1034.
Orr, Joseph L., Lynchburg, Va. Lock-block for paper rolls. No. 1,008,924; Nov. 14; Sp. p. 2879; Gaz. vol. 172; p. 484.
Orr, Lee P., Monroe, Wash. Bed-rail fastener. No. 984,387; Feb. 14; Sp. p. 2453; Gaz. vol. 163; p. 415.
Orr, William J. W., Anaheim, Cal. Sectional concrete telegraph-pole. No. 1,012,423; Dec. 19; Sp. p. 4515; Gaz. vol. 173; p. 773.
Orten-Böving, Jens. (See Wagner, Rudolf, assignor.)
Orten-Boving, Jens, London, England. Governing contrivance for jet-impelled water-motors. No. 993,616; May 30; Sp. p. 5987; Gaz. vol. 166; p. 1089.
Orten-Böving, Jens, London, England. Means for providing permanent access to the working and regulating mechanism of water-turbines. No. 1,007,230; Oct. 31; Sp. p. 5910; Gaz. vol. 171; p. 1079.
Orth, John F. (See Torma and Orth.)
Orth, John G., and W. Weston, Los Angeles, Cal. Oil-tank. No. 994,333; June 6; Sp. p. 472; Gaz. vol. 167; p. 81.
Ortholf, Christian. (See Tonsor, John P., assignor.)
Orthwein, Joseph, assignor of one-half to F. Haas, Suffern, N. Y. Tooth-brush. No. 991,798; May 9; Sp. p. 2073; Gaz. vol. 166; p. 372.
Ortner, Joseph, Newark, N. J. Link mesh. No. 1,002,539; Sept. 5; Sp. p. 805; Gaz. vol. 170; p. 117.
Orton, Collins K., San Francisco, Cal. Impelling pressure-roller for wood-planing machines. No. 985,366; Feb. 28; Sp. p. 4565; Gaz. vol. 163; p. 819.
Orton, Ernest D., Farmersville, N. Y. Pump-valve. No. 999,584; Aug. 1; Sp. p. 771; Gaz. vol. 169; p. 134.
Orton, Frederick. (See Klocke and Orton.)
Orton, Frederick, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 1,007,792; Nov. 7; Sp. p. 322; Gaz. vol. 172; p. 51.
Orton, Philo A., Chicago, Ill. Clam-shell bucket. No. 1,000,839; Aug. 15; Sp. p. 3497; Gaz. vol. 169; p. 629.
Orvis, Orland D., New York, N. Y. Smoke-consuming furnace. No. 1,000,191; Aug. 8; Sp. p. 2076; Gaz. vol. 169; p. 369.
Osborn, Alden E., New York, N. Y. Internal-combustion engine. No. 985,198; Feb. 28; Sp. p. 4194; Gaz. vol. 163; p. 763.
Osborn, Alden E., New York, N. Y. Valve mechanism for internal-combustion engines. No. 987,164; Mar. 21; Sp. p. 2962; Gaz. vol. 164; p. 539.
Osborn, Alden E., New York, N. Y. Transmission-gearing. No. 995,552; June 20; Sp. p. 3169; Gaz. vol. 167; p. 564.
Osborn, Alden E., New York, N. Y. Internal-combustion engine. No. 1,011,480; Dec. 12; Sp. p. 2425; Gaz. vol. 173; p. 414.
Osborn, Francis C., Detroit, Mich. Container-body-forming machine. No. 996,122; June 27; Sp. p. 4408; Gaz. vol. 167; p. 798.
Osborn, Francis C., Detroit, Mich., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash indicator and register. No. 982,853; Jan. 31; Sp. p. 5871; Gaz. vol. 162; p. 1033.
Osborn, Francis C., Detroit, Mich., assignor to Single Service Package Corporation of America, New York, N. Y. Severing mechanism for tube-making machines. No. 1,006,399; Oct. 17; Sp. p. 4038; Gaz. vol. 171; p. 704.
Osborn, Francis C., Detroit, Mich., assignor to Single Service Package Corporation of America, New York, N. Y. Machine for making spirally-wound tubes. No. 1,006,976; Oct. 24; Sp. p. 5328; Gaz. vol. 171; p. 935.
Osborn, George E., Cestos, Okla. Register. No. 1,002,175; Aug. 29; Sp. p. 6324; Gaz. vol. 169; p. 1143.
Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Mechanism for assembling and distributing type. No. 990,584; Apr. 25; Sp. p. 4980; Gaz. vol. 165; p. 869.
Osborn Manufacturing Company, The. (See Atwater, Harry R., assignor.)
Osborn Manufacturing Company, The. (See McKeel, George A., assignor.)

Alphabetical list of patentees—Continued.

Osborn, Ozra B., assignor to The Berlin Machine Works, Beloit, Wis. Adjusting and grinding planer-knives. No. 993,398; May 30; Sp. p. 5499; Gaz. vol. 166; p. 1013.
Osborn, Richard F., and J. Roach, Ainsworth, Nebr., assignors of one-third to A. A. Radtke, Chicago, Ill. Making artificial stoneware. No. 991,743; May 9; Sp. p. 1970; Gaz. vol. 166; p. 354.
Osborn, Vern M., Los Angeles, Cal. Device for preventing hens from setting. No. 1,008,050; Nov. 7; Sp. p. 868; Gaz. vol. 172; p. 140.
Osborn, William M. (See Owings and Osborn.)
Osborne, Charles W., Lubback, Tex. Drain-pipe. No. 986,940; Mar. 14; Sp. p. 2500; Gaz. vol. 164; p. 433.
Osborne, Charles W., Lubbock, Tex. Drainage system. No. 994,600; June 6; Sp. p. 1032; Gaz. vol. 167; p. 172.
Osborne Desiccating Machinery Company. (See Osborne, William S., assignor.)
Osborne, Eugene F., assignor to Osborne Steam Engineering Company, Chicago, Ill. Valve. No. 997,693; July 11; Sp. p. 2278; Gaz. vol. 168; p. 404.
Osborne, Gertrude, Neoga, Ill. Tailoring instrument. No. 998,258; July 18; Sp. p. 3593; Gaz. vol. 168; p. 645.
Osborne, John H., Anderson, Ind. Meat-slicer. No. 1,001,768; Aug. 29; Sp. p. 5490; Gaz. vol. 169; p. 1009.
Osborne, Raymond G., Los Angeles, Cal. Railway-tie. No. 988,282; Mar. 28; Sp. p. 5356; Gaz. vol. 164; p. 948.
Osborne Steam Engineering Company. (See Osborne, Eugene F., assignor.)
Osborne, Wilhelm, assignor to Chem.-Pharm. Laboratorium "Sahir" G. m. b. H., Munich, Germany. Formaldehyde compound and making same. No. 988,733; Apr. 4; Sp. p. 962; Gaz. vol. 165; p. 153.
Osborne, William S., New York, N. Y., assignor to Osborne Desiccating Machinery Company. Apparatus for desiccating and collecting solids from fluid substances. No. 1,007,381; Oct. 31; Sp. p. 6219; Gaz. vol. 171; p. 1132.
Osborne, William S., New York, N. Y., assignor to Osborne Desiccating Machinery Company. Dehydrating apparatus. No. 1,007,382; Oct. 31; Sp. p. 6222; Gaz. vol. 171; p. 1133.
Osborne, William S., New York, N. Y., assignor to Osborne Desiccating Machinery Company. Desiccating liquid substances. No. 1,007,599; Oct. 31; Sp. p. 6698; Gaz. vol. 171; p. 1206.
Osborne, William S., New York, N. Y., assignor to Osborne Desiccating Machinery Company. Desiccating apparatus. No. 1,011,993; Dec. 19; Sp. p. 3588; Gaz. vol. 173; p. 627.
Osbourn, Millard P., Merchantville, N. J., assignor to Warren Webster & Company. Steam-trap. No. 1,010,791; Dec. 5; Sp. p. 875; Gaz vol. 173; p. 137.
Osbron, William D., Murray, Ky. Marking device for combined cultivators and fertilizer-distributers. No. 992,041; May 9; Sp. p. 2554; Gaz. vol. 166; p. 454.
Osbron, William D., Murray, Ky. Cotton chopper and scraper. No. 995,553; June 20; Sp. p. 3172; Gaz. vol. 167; p. 564.
Osburn, Elijah J., Jr., Brooklyn, N. Y. Saw-table. No. 984,237; Feb. 14; Sp. p. 2145; Gaz. vol. 163; p. 364.
Osburn, Orren E., Mosier, assignor of one-half to G. C. Banta, The Dalles, Oreg. Engine. No. 997,694; July 11; Sp. p. 2281; Gaz. vol. 168; p. 404.
Osburn, William H., Kokomo, Ind. Building-block. No. 987,738; Mar. 28; Sp. p. 4186; Gaz. vol. 164; p. 764.
Osgood, Bertram, Salem, Mass. Pump. No. 998,547; July 18; Sp. p. 4214; Gaz. vol. 168; p. 747.
Osgood, Edward D., and A. E. Rhoades, assignors to Draper Company, Hopedale, Mass. Warp stop-motion for looms. No. 1,011,237; Dec. 12; Sp. p. 1885; Gaz. vol. 173; p. 326.
Osgood, Horatio B., assignor, by mesne assignments, to The Winters-Coleman Scale Company, Springfield, Ohio. Weighing apparatus. (Reissue.) No. 13,216; Mar. 7; Sp. p. 1411; Gaz. vol. 164; 227.
Osgood, Horatio B., assignor to Osgood Scale Company, Binghamton, N. Y. Weighing apparatus. No. 1,012,270; Dec. 19; Sp. p. 4209; Gaz. vol. 173; p. 722.
Osgood, Horatio B., Binghamton, N. Y., and G. Ayres, Washington, D. C., assignors to Osgood Scale Company, Binghamton, N. Y. Weighing apparatus. No. 1,007,231; Oct. 31; Sp. p. 5911; Gaz. vol. 171; p. 1079.
Osgood, J. L. (See Manzel, Charles W., assignor.)
Osgood, John L., Buffalo, N. Y. Twist-drill. No. 991,884; May 9; Sp. p. 2256; Gaz. vol. 166; p. 402.
Osgood, John L., Buffalo, N. Y. Lubricator. No. 1,008,052; Nov. 7; Sp. p. 870; Gaz. vol. 172; p. 140.
Osgood Scale Company. (See Osgood, Horatio B., assignor.)
Osgood Scale Company. (See Osgood and Ayres, assignors.)
Osgood, Wilfred H. (See Cory, Charles B., assignor.)
Oshkosh Grass Pad Company. (See Anderson, Christian A., assignor.)
Osius, Frederick J., Racine, Wis. Agitator implement. No. 1,005,653; Oct. 10; Sp. p. 2394; Gaz. vol. 171; p. 411.
Osland, Birger, Chicago, Ill. Bilged metallic package. No. 1,006,780; Oct. 24; Sp. p. 4880; Gaz. vol. 171; p. 867.
Oslund, Charles H., Worcester, Mass. Drill. No. 981,791; Jan. 17; Sp. p. 3591; Gaz. vol. 162; p. 609.
Osmer, John E., Chicago, Ill. Water-lift. No. 981,301; Jan. 10; Sp. p. 2586; Gaz. vol. 162; p. 420.
Osmer, John E., Chicago, Ill. Car-truck. No. 984,595; Feb. 21; Sp. p. 2922; Gaz. vol. 163; p. 520.
Osmer, William H., Vigus, Mo. Spool-cabinet. No. 1,008,429; Nov. 14; Sp. p. 1804; Gaz. vol. 172; p. 313.
Osmond, John, Chicago, Ill. Fish-hook. No. 984,596; Feb. 21; Sp. p. 2993; Gaz. vol. 163; p. 520.
Osner, Charles, West Middletown, Ohio. Churn. No. 980,827; Jan. 3; Sp. p. 1391; Gaz. vol. 162; p. 223.
Osner, Charles, West Middletown, Ohio. Cake-turner. No. 984,388; Feb. 14; Sp. p. 2454; Gaz. vol. 163; p. 415.
Osner, Charles, Middletown, Ohio. Cake-turner. No. 996,123; June 27; Sp. p. 4412; Gaz. vol. 167; p. 798.
Ossenbeck, Anton. (See Kahn and Ossenbeck.)
Ostand, Joseph, Cincinnati, Ohio. Aerial navigation apparatus. No. 987,819; Mar. 28; Sp. p. 4351; Gaz. vol. 164; p. 792.
Osten, George, Denver, Colo. Pipe stem and mouthpiece. No. 997,578; July 11; Sp. p. 2032; Gaz. vol. 168; p. 363.
Oster, Heinrich. (See Geldermann and Oster.)
Ostergren, Oscar P., assignor to H. S. Todd, New York, N. Y. Rotary impact-engine. No. 993,399; May 30; Sp. p. 5502; Gaz. vol. 166; p. 1013.
Ostergren, Oscar P., Brooklyn, N. Y., assignor to H. Reis, Wilmington, Del. Airship. No. 1,000,035; Aug. 8; Sp. p. 1685; Gaz. vol. 169; p. 316.
Ostergren, Oscar P., assignor of one-fourth to W. V. Hirsh, Brooklyn, N. Y. Rotary engine. No. 1,001,675; Aug. 29; Sp. p. 5285; Gaz. vol. 169; p. 977.
Ostergren, Oscar P., assignor of one-fourth to W. V. Hirsh, Brooklyn, N. Y. Rotary engine. No. 1,001,676; Aug. 29; Sp. p. 5287; Gaz. vol. 169; p. 977.
Ostergren, Oscar P., assignor of one-fourth to W. V. Hirsh, Brooklyn, N. Y. Pressure-balancing means. No. 1,001,677; Aug. 29; Sp. p. 5292; Gaz. vol. 169; p. 978.
Ostergren, Oscar P., assignor of six-tenths to R. A. and F. M. Alger, Detroit, Mich. Method and apparatus for generating motive power. No. 986,308; Mar. 7; Sp. p. 1143; Gaz. vol. 164; p. 185.
Osterholm, William. (See Latham and Osterholm.)
Osterholm, William, assignor to Latham Machinery Company, Chicago, Ill. Box-stapling machine. No. 980,553; Jan. 3; Sp. p. 820; Gaz. vol. 162; p. 132.
Ostermai, Clemens, Neukirchen, near Meissen, Germany. Aerial machine. No. 1,003,782; Sept. 19; Sp. p. 3483; Gaz. vol. 170; p. 619.
Ostermann, Rudolf M., Bogota, Colombia, assignor to General Electric Company. Protective device for distribution systems. No. 1,000,934; Aug. 15; Sp. p. 3693; Gaz. vol. 169; p. 662.
Ostermier, Edward. (See Sphar and Ostermier.)
Ostertag, John, Eureka, Cal. Animal-trap. No. 993,192; May 23; Sp. p. 5060; Gaz. vol. 166; p. 913.
Ostlund, Karl, Chicago, Ill. Toy. No. 997,695; July 11; Sp. p. 2283; Gaz. vol. 168; p. 404.
Ostman, Arthur E. (See Flockey and Ostman.)
Ostman, Joseph O., assignor of one-third to A. Immo and one-third to A. Abramson, Hancock, Mich. Dial-level. No. 997,084; July 4; Sp. p. 1037; Gaz. vol. 168; p. 167.
Ostrander, Harriet L., *et al.* (See Poe, George, assignor.)
Ostrander, Lewis F., Decatur, Ill., assignor to Continental Radiator & Foundry Company, St. Louis, Mo. Stove-door. No. 991,079; May 2; Sp. p. 525; Gaz. vol. 166; p. 90.
Ostrander, Lewis F., Decatur, Ill., assignor to Continental Radiator & Foundry Company, St. Louis, Mo. Stove-top. No. 996,124; June 27; Sp. p. 4413; Gaz. vol. 167; p. 799.
Ostrander, Linnie E., Harbor, Oreg. Preservation of natural flowers. No. 996,788; July 4; Sp. p. 376; Gaz. vol. 168; p. 64
Ostrander, Willis H., Paradise, Cal. Milker's tail-clamp. No. 987,594; Mar. 21; Sp. p. 3855; Gaz. vol. 164; p. 687.
Ostrowski, Stanley J., Chicago, Ill. Cuspidor. No. 997,320; July 11; Sp. p. 1528; Gaz. vol. 168; p. 278.
Oswald, John E., *et al.* (See Pierce, Franklin A., assignor.)
Oswald, Karl. (See Goerk, Gustav, assignor.)
Oswald, Peter, Alma, Nebr. Coil-winder. No. 1,002,435; Sept. 5; Sp. p. 580; Gaz. vol. 170; p. 83.
Oswald, Thomas H. and T. H., Jr., London, England. Suction gas plant and engine. No. 986,206; Mar. 7; Sp. p. 935; Gaz. vol. 164; p. 151.
Oswald, William H., *et al.* (See Briegel, Johann G., assignor.)
Otis Elevator Company. (See Alden, George I., assignor.)
Otis Elevator Company. (See Atwood, Leonard, assignor.)
Otis Elevator Company. (See Baldwin and Furlow, assignors.)
Otis Elevator Company. (See Boening, Ernest, assignor.)
Otis Elevator Company. (See Boyce, John E., assignor.)
Otis Elevator Company. (See Chytraus, Emil F., assignor.)
Otis Elevator Company. (See Dickinson, William N., Jr., assignor.)
Otis Elevator Company. (See Furlow, Floyd C., assignor.)

Alphabetical list of patentees—Continued.

Otis Elevator Company. (See Gale, Ernest L., Sr., assignor.)
Otis Elevator Company. (See Grosvenor, Graham, assignor.)
Otis Elevator Company. (See Ihlder, John D., assignor.)
Otis Elevator Company. (See John, Griffith, assignor.)
Otis Elevator Company. (See Larson, David, assignor.)
Otis Elevator Company. (See Lindquist, David L., assignor.)
Otis Elevator Company. (See Lindquist and Sundh, assignors.)
Otis Elevator Company. (See Magnuson, Axel, assignor.)
Otis Elevator Company. (See Morris, Charles A., assignor.)
Otis Elevator Company. (See Neenan, Michael E., assignor.)
Otis Elevator Company. (See Pearson, Charles O., assignor.)
Otis Elevator Company. (See Pearson and Sundh, assignors.)
Otis Elevator Company. (See Seeberger, Charles D., assignor.)
Otis Elevator Company. (See Smith, Rudolph C., assignor.)
Otis Elevator Company. (See Sundh, August, assignor.)
Otis Elevator Company. (See Town, Frederic E., assignor.)
Otis Elevator Company. (See Venn, Isaac H., assignor.)
Otis Elevator Company. (See Williams, George H. C., assignor.)
Otis, Marion T., Hagerman, Idaho. Flow-regulator and seed-trap for irrigating-ditches. No. 1,010,305; Nov. 28; Sp. p. 5828; Gaz. vol. 172; p. 1038.
Otis, Milton G., Aniwa, Wis. Mowing-machine. No. 982,016; Jan. 17; Sp. p. 4127; Gaz. vol. 162; p. 689.
Otis, Robert B., Golden, Colo. Internal-combustion engine. No. 1,000,192; Aug. 8; Sp. p. 2081; Gaz. vol. 169; p. 370.
Otis, Spencer, assignor to National Dump Car Company, Chicago, Ill. High-side gondola car. No. 985,926; Mar. 7; Sp. p. 359; Gaz. vol. 164; p. 58.
Otis, Spencer, Chicago, Ill., assignor to National Dump Car Company. Dump-car. No. 986,207; Mar. 7; Sp. p. 937; Gaz. vol. 164; p. 152.
Otis, Spencer, Chicago, Ill., assignor, by mesne assignments, to National Dump Car Company. Drop-bottom dump-car. (Reissue.) No. 13,320; Nov. 21; Sp. p. 4611; Gaz. vol. 172; p. 798.
Otley, Thomas H., Brooklyn, N. Y. Interlocking and detector bar mechanism for railway-switches. No. 996,275; June 27; Sp. p. 4785; Gaz. vol. 167; p. 848.
Ott, Emil, Berlin, Germany. Device for cooling the air required for maltage. No. 980,828; Jan. 3; Sp. p. 1392; Gaz. vol. 162; p. 223.
Ott, Harvey N., and K. Leuchsenring, assignors to Spencer Lens Company, Buffalo, N. Y. Fine adjustment for microscopes. No. 987,393; Mar. 21; Sp. p. 3463; Gaz. vol. 164; p. 619.
Ott, John F., Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Producing rubber strips. No. 988,959; Apr. 4; Sp. p. 1392; Gaz. vol. 165; p. 224.
Ott, René, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dyeing. No. 989,186; Apr. 11; Sp. p. 1876; Gaz. vol. 165; p. 325.
Ott, Samuel A., Joplin, Mo. Combination lawn-chair and couch. No. 992,382; May 16; Sp. p. 3358; Gaz. vol. 166; p. 604.
Ott, Willard J., Chicago, Ill. Automatic nailer. No. 982,854; Jan. 31; Sp. p. 5884; Gaz. vol. 162; p. 1033.
Ottaway, William, assignor to Aurora Automatic Machinery Company, Aurora, Ill. Explosive-engine. No. 1,000,543; Aug. 15; Sp. p. 2853; Gaz. vol. 169; p. 523.
Ottenbach, Harrison F. (See Weitershausen and Ottenbach.)
Ottmann, Heinrich, Munich, Germany. Process and apparatus for puffing blast-furnace slag. No. 1,003,406; Sept. 12; Sp. p. 2649; Gaz. vol. 170; p. 456.
Ottney, Frank, Charlotte, Mich. Culvert. No. 985,539; Feb. 28; Sp. p. 4971; Gaz. vol. 163; p. 880.
Otto, August, Jr., Sandwich, Ill. Hay-loader. No. 999,585; Aug. 1; Sp. p. 773; Gaz. vol. 169; p. 134.
Otto, Friedrich E., assignor to Phönix-Werk, G. m. b. H., Meerane, Germany. Trough-drier for drying brewery-wastes and the like. No. 1,006,266; Oct. 17; Sp. p. 3743; Gaz. vol. 171; p. 658.
Otto, Hans, Lookeba, Okla. Clothes-line reel. No. 985,199; Feb. 28; Sp. p. 4198; Gaz. vol. 163; p. 764.
Otto, Hans, Lookeba, Okla. Clothes-line wiper. No. 985,200; Feb. 28; Sp. p. 4199; Gaz. vol. 163; p. 764.
Otto, Johann, Riga, Russia, assignor to General Electric Company. Bearing structure for machines operating in water. No. 1,000,935; Aug. 15; Sp. p. 3699; Gaz. vol. 169; p. 662.
Otto, Luther M., Jr., Williamsport, Pa. Car-stake pocket. No. 989,033; Apr. 11; Sp. p. 1559; Gaz. vol. 165; p. 273.
Otto, Oscar, Maywood, Ill. Chuck. No. 999,248; Aug. 1; Sp. p. 113; Gaz. vol. 169; p. 21.
Otto, Paul, assignor of one-fourth to W. Davis, Marlin, Tex. Gate. No. 984,389; Feb. 14; Sp. p. 2455; Gaz. vol. 163; p. 415.
Otto, Paul A., Tiffin, Ohio. Aerodrome. No. 1,001,160; Aug. 22; Sp. p. 4224; Gaz. vol. 169; p. 773.
Ottone fu Giorgio, Giuseppe. (See Canepa and Ottone fu Giorgio.)
Ouellet, Charles J. (See Williams, Frank B., assignor.)
Oulton, George, C. Ablett, and W. E. Lightfoot, Liverpool, England. Speed-regulating device for sound recording and reproducing machines. No. 1,003,940; Sept. 19; Sp. p. 3839; Gaz. vol. 170; p. 673.
Outland, Virgil F., Indianapolis, Ind. Sliding-door construction. No. 1,004,299; Sept. 26; Sp. p. 4663; Gaz. vol. 170; p. 825.
Outwater, Mary J. (See Woodworth, Outwater, and Hoff.)
Overbeck, Harry W., Paola, Kans. Veterinary forceps. No. 1,007,136; Oct. 31; Sp. p. 5701; Gaz. vol. 171; p. 1046.
Overby, John G., Mellette, S. D. Hame-fastener. No. 988,654; Apr. 4; Sp. p. 784; Gaz. vol. 165; p. 125.
Overfield, Frederick, Cornwall, N. Y. Water-wheel. No. 980,666; Jan. 3; Sp. p. 1070; Gaz. vol. 162; p. 170.
Overholt, Edwin E., Washington, D. C. Compressed-air carpet-cleaner. No. 1,005,290; Oct. 10; Sp. p. 1564; Gaz. vol. 171; p. 282.
Overholt, Edwin E., Washington, D. C., assignor to Modern Compressed Air Cleaning Co. Pneumatic carpet-cleaner. No. 985,694; Feb. 28; Sp. p. 5298; Gaz. vol. 163; p. 932.
Overholt, Isaac F. (See Hershberger, Charles D., assignor.)
Overlin, William S. (See Bilyeu and Overlin.)
Overlin, William S., assignor of one-half to E. Pickel, Portland, Oreg. Calendar-clock. No. 1,008,859; Nov. 14; Sp. p. 2753; Gaz. vol. 172; p. 464.
Overton, Charles A., Coeur d'Alene, Idaho. Roof-joint. No. 1,012,219; Dec. 19; Sp. p. 4112; Gaz. vol. 173; p. 705.
Overton, Charles S., Solomons, Md. Self-adjusting revolving press. No. 1,006,001; Oct. 17; Sp. p. 3136; Gaz. vol. 171; p. 563.
Overton, George G. (See McAteer and Overton.)
Overturf, Louie H., *et al.* (See Overturf, Osler I., assignor.)
Overturf, Osler I., assignor to L. H. Overturf and M. Schuler, Dumont, Iowa. Concrete-mixer. No. 1,004,586; Oct. 3; Sp. p. 76; Gaz. vol. 171; p. 14.
Oveson, Carl A., Chicago, Ill. Pressing-machine. No. 985,280; Feb. 28; Sp. p. 4386; Gaz. vol. 163; p. 791.
Oveson, John N., Chicago, Ill. Curtain-stretcher. No. 1,003,121; Sept. 12; Sp. p. 2068; Gaz. vol. 170; p. 356.
Ovington, Edward J., Los Angeles, Cal., assignor to Electric Device Company. Electric heating unit. No. 994,188; June 6; Sp. p. 181; Gaz. vol. 167; p. 32.
Ow, August von. (See Schmid and Ow.)
Owen, Arthur A., and S. B. Musgrave, Springfield, Mo. Street and railway snow-sweeper. No. 1,012,904; Dec. 26; Sp. p. 5575; Gaz. vol. 173; p. 984.
Owen, Arthur W., assignor to Wm. L. Gilbert Clock Company, Winsted, Conn. Gong for clocks. No. 992,138; May 9; Sp. p. 2753; Gaz. vol. 166; p. 487.
Owen Bucket Company, The. (See Callahan, Owen W., assignor.)
Owen, Charles J., assignor of one-half to F. H. Spring, Joplin, Mo. Alarm-float. No. 980,667; Jan. 3; Sp. p. 1073; Gaz. vol. 162; p. 170.
Owen, Charles, W. W. Heckethorn, and S. W. Cole, Lamar, Colo. Tire-tool. No. 1,008,430; Nov. 14; Sp. p. 1805; Gaz. vol. 172; p. 314.
Owen, David T., Cleveland, assignor to The D. T. Owen Company, East Cleveland, Ohio. Davenport bed and couch. No. 988,497; Apr. 4; Sp. p. 438; Gaz. vol. 165; p. 71.
Owen, David T., Cleveland, assignor to The D. T. Owen Company, East Cleveland, Ohio. Davenport-bed. No. 988,498; Apr. 4; Sp. p. 439; Gaz. vol. 165; p. 72.
Owen, Edward, Llandudno, England. Means for securing pneumatic and other tires to the rims of wheels. No. 981,792; Jan. 17; Sp. p. 3593; Gaz. vol. 162; p. 610.
Owen, Edwin G., Wysox, Pa. Friction driving mechanism for motor-vehicles. No. 1,005,291; Oct. 10; Sp. p. 1566; Gaz. vol. 171; p. 283.
Owen, Edwin G., Wysox, Pa. Spring-wheel. No. 1,009,169; Nov. 21; Sp. p. 3413; Gaz. vol. 172; p. 603.
Owen, Fletcher, Worthington, Ind. Corn-shock binder. No. 1,006,781; Oct. 24; Sp. p. 4881; Gaz. vol. 171; p. 867.
Owen, Fletcher, Worthington, Ind. Shock-binder. No. 1,009,992; Nov. 28; Sp. p. 5186; Gaz. vol. 172; p. 932.
Owen, George A., and G. A. Bates, Hartford, Conn. Aerial machine. No. 997,001; July 4; Sp. p. 867; Gaz. vol. 168; p. 139.
Owen, George V., Birchardville, Pa. Horseshoe-calk. No. 989,866; Apr. 18; Sp. p. 3373; Gaz. vol. 165; p. 589.
Owen, Henry I., Fulton, Mo. Locking device. No. 1,000,936; Aug. 15; Sp. p. 3700; Gaz. vol. 169; p. 663.
Owen, Henry L., Pontotoc, Miss. Tool. No. 981,220; Jan. 10; Sp. p. 2418; Gaz. vol. 162; p. 391.
Owen, Horace P. (See Richards, Thomas, assignor.)
Owen, Horace P., *et al.* (See McCarty and Hindman, assignors.)
Owen, James E., *et al.* (See Carver, Edwin, assignor.)

Alphabetical list of patentees—Continued.

Owen, James T., Vega, Tex. Well-drilling device. No. 998,385; July 18; Sp. p. 3908; Gaz. vol. 168; p. 692.
Owen, James W., Philadelphia, Pa., assignor to Victor Talking Machine Company. Making sound-records and the matrices for forming sound-records. No. 1,011,838; Dec. 12; Sp. p. 3232; Gaz. vol. 173; p. 538.
Owen, Lyman P., *et al.* (See Silva, Claude L., assignor.)
Owen, Martin W. (See Ward, Elmer E., assignor.)
Owen, Oscar L., assignor to The Whitin Machine Works, Whitinsville, Mass. Cotton lap-head. No. 983,306; Feb. 7; Sp. p. 103; Gaz. vol. 163; p. 18.
Owen, Oscar L., assignor to The Whitin Machine Works, Whitinsville, Mass. Coiler-head. No. 1,005,745; Oct. 10; Sp. p. 2569; Gaz. vol. 171; p. 442.
Owen, Thomas D., Shoals, N. C. Spring-hook. No. 988,499; Apr. 4; Sp. p. 441; Gaz. vol. 165; p. 72.
Owen Thomas Motor Car Company. (See Thomas, Willie O., assignor.)
Owen, William J., Collinwood, W. T. Westall, Cleveland, and W. Wallace, East Cleveland, Ohio. Car-roof. No. 989,034; Apr. 11; Sp. p. 1561; Gaz. vol. 165; p. 273.
Owens, Charles, New York, N. Y., assignor to Montague Mailing Machinery Co. Automatic feeder. No. 998,116; July 18; Sp. p. 3303; Gaz. vol. 168; p. 595.
Owens, Charles, and U. G. Lee, New York, N. Y., assignors to Montague Mailing Machinery Company. Holder for printing-plates and the like. No. 983,081; Jan. 31; Sp. p. 6385; Gaz. vol. 162; p. 1109.
Owens, Charles, U. G. Lee, and A. Lyle, assignors to Montague Mailing Machinery Company, New York, N. Y. Mailing machinery. No. 1,012,424; Dec. 19; Sp. p. 4516; Gaz. vol. 173; p. 773.
Owens, George L., Villisca, Iowa. Medicine-distributer for stock. No. 985,201; Feb. 28; Sp. p. 4200; Gaz. vol. 163; p. 764.
Owens, Jasper C., Hollywood, Cal. Carpet-plucker. No. 1,008,610; Nov. 14; Sp. p. 2230; Gaz. vol. 172; p. 380.
Owens, Jasper C., Los Angeles, Cal. Carpet-plucker. No. 1,008,611; Nov. 14; Sp. p. 2233; Gaz. vol. 172; p. 380.
Owens, Jasper C., Los Angeles, Cal. Tool. No. 1,012,148; Dec. 19; Sp. p. 3946; Gaz. vol. 173; p. 682.
Owens, Robert J., Minneapolis, Minn. Grain-separator. No. 1,005,778; Oct. 10; Sp. p. 2635; Gaz. vol. 171; p. 454.
Owens, Robert J., Minneapolis, Minn. Milk-can cleaner. No. 1,009,170; Nov. 21; Sp. p. 3414; Gaz. vol. 172; p. 604.
Owings, David M., and W. M. Osborn, assignors of one-half to A. C. and E. C. Frazier, Canton, Okla. Dry-process gold-machine. No. 1,006,267; Oct. 17; Sp. p. 3748; Gaz. vol. 171; p. 659.
Ox Fibre Brush Company. (See Young and Lebherz, assignors.)
Oxford Linen Mills. (See Stone, Wilbur M., assignor.)
Oxygenator Co., The. (See Moses, Elvard L., assignor.)
Ozias, Albert N., Minneapolis, Minn. Temperature-regulator. No. 998,117; July 18; Sp. p. 3306; Gaz. vol. 168; p. 595.
P. C. Murphy Trunk Company. (See Perry, Henry T. V., assignor.)
P. & F. Corbin. (See Arens and Teich, assignors.)
P. & F. Corbin. (See Fletcher, James R., assignor.)
P. & F. Corbin. (See Henry, William K., assignor.)
P. & M. Co., The. (See Moore, Philip W., assignor.)
Pace, David D., Lauderdale county, Miss. Animal-poke. No. 992,242; May 16; Sp. p. 3011; Gaz. vol. 166; p. 554.
Pace, James H., Hartwell, Ga. Safety-razor. No. 991,533; May 9; Sp. p. 1511; Gaz. vol. 166; p. 281.
Pace, James H., Blue Ridge, Ga. Safety-razor. No. 1,001,769; Aug. 29; Sp. p. 5491; Gaz. vol. 169; p. 1009.
Pace, T. H. (See Bradley, Richard C., assignor.)
Pacific Electric Heating Company. (See Richardson, Earl H., assignor.)
Pacific Engineering Company. (See Faget, Arthur, assignor.)
Pacific Gas and Electric Company, The. (See Lisberger and Wilson, assignors.)
Pacific Manifolding Book Company. (See Thum, Frank, assignor.)
Pacific Manufacturing Company. (See Page, Clarence C., assignor.)
Pacific Patent Appliance Company. (See Caine, Frank E., assignor.)
Pacific Spring Bed Company. (See Stackhouse, George C., assignor.)
Paciorkiewicz, Wladislaw. (See Stern and Paciorkiewicz.)
Pack, Samuel B. (See Moore and Pack.)
Pack, Walter. (See Alley and Pack.)
Packard, Arthur L., Auburn, Me. Rocker. No. 983,758; Feb. 7; Sp. p. 1074; Gaz. vol. 163; p. 172.
Packard, Chismore H., New York, N. Y. Convertible amusement and dining car. No. 1,002,863; Sept. 12; Sp. p. 1522; Gaz. vol. 170; p. 267.
Packard Company, The. (See Magnuson, Nels, assignor.)
Packard, Ezra E. C., Lynn, Mass. Cement-applying mechanism. No. 996,881; July 4; Sp. p. 583; Gaz. vol. 168; p. 96.
Packard, George W., Deadwood, S. D. Door-securer. No. 982,017; Jan. 17; Sp. p. 4131; Gaz. vol. 162; p. 689.
Packard Motor Car Company. (See Huff, Russell, assignor.)
Packard Motor Car Company. (See Loomis, Allen, assignor.)
Packard Motor Car Company. (See Schmidt, Charles, assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packard, Quincy E., Montreal, Quebec, Canada. Bunion-protector. No. 1,001,161; Aug. 22; Sp. p. 4226; Gaz. vol. 169; p. 773.
Packer, Mortimer L., Columbus, Ohio. Device for supporting articles in an electroplating-bath. No. 1,005,870; Oct. 17; Sp. p. 2851; Gaz. vol. 171; p. 518.
Packewitz, Joseph, Providence, R. I. Hand-rest. No. 988,893; Apr. 4; Sp. p. 1265; Gaz. vol. 165; p. 202.
Packman, George J. (See Britain and Packman.)
Packmore Manufacturing Company. (See Moore and Pack, assignors.)
Pacyna, Arnold, Evanston, assignor to Chicago Folding Box Company, Chicago, Ill. Machine for making corrugated paper. No. 995,083; June 13; Sp. p. 2178; Gaz. vol. 167; p. 378.
Pacyna, Arnold, Evanston, assignor to Chicago Folding Box Company, Chicago, Ill. Machine for making double-faced corrugated paper. No. 995,084; June 13; Sp. p. 2188; Gaz. vol. 167; p. 378.
Padbury, John J., Rockland, Me. Stoneworking-machine. No. 999,180; July 25; Sp. p. 5617; Gaz. vol. 168; p. 998.
Paddack, Truman G., Wyoming, assignor to The Stearns & Foster Company, Cincinnati, Ohio. Cutting-machine. No. 981,302; Jan. 10; Sp. p. 2589; Gaz. vol. 162; p. 421.
Padden, William F., Hudson, Wis. Clothes-draining attachment for washboilers. No. 1,002,304; Sept. 5; Sp. p. 269; Gaz. vol. 170; p. 37.
Paddington, John P., New York, N. Y. Garment presser and stretcher. No. 998,548; July 18; Sp. p. 4216; Gaz. vol. 168; p. 747.
Paddock, Gustavus A., Beaver Dam, Wis. Clothes-wringer. No. 1,007,964; Nov. 7; Sp. p. 710; Gaz. vol. 172; p. 110.
Paddock, Gustavus A., Beaver Dam, Wis. Clothes-wringer. No. 1,007,965; Nov. 7; Sp. p. 712; Gaz. vol. 172; p. 111.
Paddock, Gustavus A., Beaver Dam, Wis. Clothes-wringer. No. 1,007,966; Nov. 7; Sp. p. 713; Gaz. vol. 172; p. 111.
Paddock, Robert G. (See Wrinkle and Paddock.)
Padernacht, Anna (See Padernacht, William, assignor.) (Reissue.)
Padernacht, William, New York, N. Y. Adjustable coat. No. 1,010,679; Dec. 5; Sp. p. 614; Gaz. vol. 173; p. 98.
Padernacht, William, assignor to A. Padernacht, New York, N. Y. Skirt. (Reissue.) No. 13,238; May 9; Sp. p. 2763; Gaz. vol. 166; p. 490.
Padfield, William H. (See Svagell and Padfield.)
Padgett, John P., Corbin, Ky. Coupling device. No. 1,012,425; Dec. 19; Sp. p. 4524; Gaz. vol. 173; p. 774.
Padley, Walter R., Coolidge, Kans. Tourist's tent. No. 1,009,783; Nov. 28; Sp. p. 4766; Gaz. vol. 172; p. 863.
Paechtner, Louis, Cheapside, London, England. Manufacturing size. No. 987,595; Mar. 21; Sp. p. 3856; Gaz. vol. 164; p. 687.
Paessler, Johannes, Freiberg, and H. Arnoldi, Weinheim, Germany. Decolorizing tannin extracts. No. 1,006,977; Oct. 24; Sp. p. 5332; Gaz. vol. 171; p. 936.
Paetz, Carl, Algona, Iowa. Pump connection. No. 988,807; Apr. 4; Sp. p. 1105; Gaz. vol. 165; p. 176.
Paff, Frank, San Francisco, Cal. Miter-box. No. 986,851; Mar. 14; Sp. p. 2322; Gaz. vol. 164; p. 402.
Page, Albert A., East Haven, assignor to Sargent & Co., New Haven, Conn. Elevator-shaft-door lock. No. 995,710; June 20; Sp. p. 3521; Gaz. vol. 167; p. 620.
Page Automatic Company, The. (See Page, Fred D., assignor.)
Page, Carl M., Dixon, Ill. Actuating means for electric-meter recorders. No. 987,254; Mar. 21; Sp. p. 3156; Gaz. vol. 164; p. 572.
Page, Carl M., assignor of one-half to H. D. Reynolds, Chicago, Ill. Dynamo-electric machine. No. 986,748; Mar. 14; Sp. p. 2097; Gaz. vol. 164; p. 367.
Page, Charles B., assignor to Page Engineering Co. of Baltimore City, Baltimore, Md. Three-port two-cycle engine. No. 994,653; June 6; Sp. p. 1159; Gaz. vol. 167; p. 190.
Page, Clara A., Chicago, Ill. Dress-shield fastener. No. 995,085; June 13; Sp. p. 2182; Gaz. vol. 167; p. 379.
Page, Clarence C., assignor to Pacific Manufacturing Company, Portland, Oreg. Wrapping-machine. No. 1,009,257; Nov. 21; Sp. p. 3644; Gaz. vol. 172; p. 636.
Page, David P., Grand Rapids, Mich. Wire gate. No. 982,295; Jan. 24; Sp. p. 4705; Gaz. vol. 162; p. 813.
Page Engineering Co. of Baltimore City. (See Page, Charles B., assignor.)
Page, Frank H., Springfield, Mass. Stringing device for making confections. No. 991,799; May 9; Sp. p. 2074; Gaz. vol. 166; p. 372.
Page, Fred D., assignor to The Page Automatic Company, Cleveland, Ohio. Automatically lighting and extinguishing gas and other lamps. No. 1,001,678; Aug. 29; Sp. p. 5297; Gaz. vol. 169; p. 978.
Page, Hattie J., Grand Rapids, Mich. Waist-garment. No. 1,006,590; Oct. 24; Sp. p. 4504; Gaz. vol. 171; p. 803.

Page, Jessy G., assignor of one-half to J. H. Harper, Cunningham, Tenn. Plow. No. 1,000,544; Aug. 15; Sp. p. 2857; Gaz. vol. 169; p. 524.
Page, John W., Adrian, Mich. Wire fabric. No. 999,249; Aug. 1; Sp. p. 115; Gaz. vol. 169; p. 21.
Page, John W., Chicago, Ill. Platform for derricks and the like. No. 1,001,299; Aug. 22; Sp. p. 4514; Gaz. vol. 169; p. 819.
Page, Logan W., Washington, D. C. Mixing and preparing hydraulic cement concrete and the product thereof. No. 1,000,545; Aug. 15; Sp. p. 2858; Gaz. vol. 169; p. 524.
Page, Rufus L., Puxico, Mo. High-pressure steam cooking vessel. No. 1,010,792; Dec. 5; Sp. p. 880; Gaz. vol. 173; p. 138.
Page, Samuel D., and J. C. Hedges, Des Moines, Iowa. Loose-leaf book. No. 1,009,685; Nov. 21; Sp. p. 4540; Gaz. vol. 172; p. 782.
Page, William A., Canandaigua, N. Y. Music-roll holder. No. 993,866; May 30; Sp. p. 6518; Gaz. vol. 166; p. 1175.
Page, William A., Canandaigua, and A. R. Pritchard, Rochester; said Page assignor to The Lisk Manufacturing Company, Ltd., Canandaigua, N. Y. Handle. No. 1,010,680; Dec. 5; Sp. p. 616; Gaz. vol. 173; p. 98.
Pagel, Theodore J., Minneapolis, Minn. Relief-valve for fire-engines. No. 996,125; June 27; Sp. p. 4414; Gaz. vol. 167; p. 799.
Pagelsen, Edward N., Detroit, Mich. Valve. No. 1,000,435; Aug. 15; Sp. p. 2606; Gaz. vol. 169; p. 485.
Paget, Charles E. (See Paget, George, A. E., and C. E.)
Paget, Charles E. (See Paget, George, C. E., and A. E.)
Paget, George, A. E., and C. E., Huntsville, Ontario, Canada. Grain-car door. No. 984,102; Feb. 14; Sp. p. 1852; Gaz. vol. 163; p. 318.
Paget, George, C. E., and A. E., Huntsville, Ontario, Canada. Grain-car door. No. 1,002,436; Sept. 5; Sp. p. 581; Gaz. vol. 170; p. 83.
Paget, Richard A. S. (See Watson and Paget.)
Pagett, John W., and G. F. Penington, Chickasawba, Ark. Air-brake attachment. No. 985,202; Feb. 28; Sp. p. 4201; Gaz. vol. 163; p. 764.
Pahola, József, Budapest, Austria-Hungary, assignor of one-half to J. Kocsis, New York, N. Y. Cuspidor. No. 985,054; Feb. 21; Sp. p. 3845; Gaz. vol. 163; p. 679.
Paige, Arthur E., Philadelphia, Pa. Telephone system. No. 1,012,699; Dec. 26; Sp. p. 5100; Gaz. vol. 173; p. 914.
Pain, Henry J., New York, N. Y. Pyrotechnics. No. 981,677; Jan. 17; Sp. p. 3351; Gaz. vol. 162; p. 569.
Pain, Robert W., New York, N. Y. Controlling device for piano-playing attachments. No. 980,554; Jan. 3; Sp. p. 825; Gaz. vol. 162; p. 133.
Pain, Willard S., Meriden, Conn., assignor to Aeolian Company, New York, N. Y. Perforated music-sheet and tracker-board. No. 980,555; Jan. 3; Sp. p. 827; Gaz. vol. 162; p. 133.
Paine, Findley R., Albany, N. Y., assignor to Standard Oil Company of New York. Indicating device. No. 987,255; Mar. 21; Sp. p. 3159; Gaz. vol. 164; p. 572.
Paine, Franklin, Duluth, Minn. Bed-fastening. No. 1,001,679; Aug. 29; Sp. p. 5298; Gaz. vol. 169; p. 979.
Paine Lumber Company Limited. (See Wood, Charles L., assignor.)
Painter, Jacob A., assignor of one-half to L. Smith, Oklahoma, Okla. Screen-door fly-fan. No. 998,794; July 25; Sp. p. 4794; Gaz. vol. 168; p. 866.
Paiste, Henry T. (See Thomas and Paiste.)
Paiste, Henry T., Philadelphia, Pa. Closure for openings of outlet-boxes. No. 990,161; Apr. 18; Sp. p. 3987; Gaz. vol. 165; p. 688.
Palatine Engineering Company Limited. (See Deacon and Gore, assignors.)
Palen, Frederick P., Newport News, and W. Burlingham, Hampton, Va. Ash-discharger. No. 986,208; Mar. 7; Sp. p. 938; Gaz. vol. 164; p. 152.
Palen, Frederick P., and W. Burlingham, Newport News, Va. Boiler. No. 1,010,306; Nov. 28; Sp. p. 5829; Gaz. vol. 172; p. 1038.
Pálinkás, Imre, Szolnok, Austria-Hungary. Water-turbine installation. No. 996,789; July 4; Sp. p. 377; Gaz. vol. 168; p. 64.
Pallister, Claude V., *et al.*, administrators. (See Burgess, Neilson.)
Pally, Charles T., Cincinnati, Ohio. Safety hat-pin. No. 1,004,898; Oct. 3; Sp. p. 776; Gaz. vol. 171; p. 124.
Palm, Jay D. and W., Bellville, Tex. Hammock. No. 980,829; Jan. 3; Sp. p. 1393; Gaz. vol. 162; p. 223.
Palm, John V. O., assignor to The Palm Vacuum Cleaner Company, Detroit, Mich. Liquid packing for pumps. (Reissue.) No. 13,325; Nov. 28; Sp. p. 6051; Gaz. vol. 172; p. 1073.
Palm, Raymond C., Reading, Pa. Rocking-chair attachment. No. 1,011,361; Dec. 12; Sp. p. 2178; Gaz. vol. 173; p. 371.
Palm Vacuum Cleaner Company, The. (See Palm, John V. O., assignor.) (Reissue.)
Palm, William. (See Palm, Jay D. and W.)
Palmaer, Wilhelm, Stockholm, Sweden. Manufacturing manure from raw phosphates. No. 995,894; June 20; Sp. p. 3942; Gaz. vol. 167; p. 683.
Palmateer, Sylvanus, assignor of one-sixth to E. Jenkins and one-sixth to O. Morrow, Staples, Minn. Nut-lock. No. 981,678; Jan. 17; Sp. p. 3352; Gaz. vol. 162; p. 569.
Palmenberg, Emil T., New York, N. Y., and F. W. Kreusch, Bayonne, N. J.; said Kreusch assignor to said Palmenberg. Garment-form. No. 1,001,434; Aug. 22; Sp. p. 4802; Gaz. vol. 169; p. 865.
Palmenberg, Emil T., New York, N. Y., and F. W. Kreusch, Bayonne, N. J.; said Kreusch assignor to said Palmenberg. Reinforcement for garment-forms. No. 1,003,783; Sept. 19; Sp. p. 3484; Gaz. vol. 170; p. 620.
Palmer, Albert D., assignor to J. Gernert, Pittsburgh, Pa. Attachment for pianos or the like. No. 1,007,232; Oct. 31; Sp. p. 5914; Gaz. vol. 171; p. 1080.
Palmer, Albert E., Owosso, Mich. Clamp. No. 1,005,292; Oct. 10; Sp. p. 1568; Gaz. vol. 171; p. 283.
Palmer, Alfred T., Boston, Mass. Adjustable chair. No. 1,005,064; Oct. 3; Sp. p. 1066; Gaz. vol. 171; p. 179.
Palmer, Charles, London, England, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,011,996; Dec. 19; Sp. p. 3600; Gaz. vol. 173; p. 628.
Palmer, Charles, London, England, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,011,997; Dec. 19; Sp. p. 3605; Gaz. vol. 173; p. 629.
Palmer, Charles G. (See Greene and Palmer.)
Palmer, Charles H., and J. W. Denmead, Akron, Ohio, assignors to The Diamond Match Company, New York, N. Y. Box making and sanding machine. No. 985,831; Mar. 7; Sp. p. 139; Gaz. vol. 164; p. 26.
Palmer, Charles H., and J. W. Denmead, Akron, Ohio, assignors to The Diamond Match Company, New York, N. Y. Box-making machine. No. 985,832; Mar. 7; Sp. p. 144; Gaz. vol. 164; p. 26.
Palmer, Charles H., and J. W. Denmead, Akron, Ohio, assignors to The Diamond Match Company, Chicago, Ill. Match. No. 985,833; Mar. 7; Sp. p. 148; Gaz. vol. 164; p. 26.
Palmer, De Witt H., Boston, Mass., assignor to Vulcan Furnace Company, Warren, Ohio. Stoker. No. 1,005,458; Oct. 10; Sp. p. 1933; Gaz. vol. 171; p. 341.
Palmer, Edward H., Detroit, Mich. Sad-iron. No. 1,005,459; Oct. 10; Sp. p. 1937; Gaz. vol. 171; p. 342.
Palmer, Edward H., Detroit, Mich. Inverted-lamp burner. No. 1,005,460; Oct. 10; Sp. p. 1938; Gaz. vol. 171; p. 342.
Palmer, Edward P., Zacatecas, Mexico. Ladder. No. 993,867; May 30; Sp. p. 6520; Gaz. vol. 166; p. 1175.
Palmer, Francis E. (See Palmer, Herman H., assignor.)
Palmer, Frederick A., Middletown, Conn. Woven-wire bed-bottom. No. 989,867; Apr. 18; Sp. p. 3375; Gaz. vol. 165; p. 589.
Palmer, Frederick H., and J. P. Smith, Cleveland, Ohio. Press. No. 986,496; Mar. 14; Sp. p. 1576; Gaz. vol. 164; p. 280.
Palmer, George C., assignor of one-third to J. E. Farrell, Jr., Stamford, Conn. Exhaust-silencer. No. 994,028; May 30; Sp. p. 6844; Gaz. vol. 166; p. 1228.
Palmer, George E., Chicago, Ill. Trolley. No. 1,000,116; Aug. 8; Sp. p. 1908; Gaz. vol. 169; p. 344.
Palmer, Granville E., Winchester, Mass. Switch. No. 984,238; Feb. 14; Sp. p. 2146; Gaz. vol. 163; p. 364.
Palmer, Granville E., Winchester, Mass. Locking device. No. 999,850; Aug. 8; Sp. p. 1299; Gaz. vol. 169; p. 252.
Palmer, Granville E., Winchester, Mass. Electric switch. No. 999,851; Aug. 8; Sp. p. 1302; Gaz. vol. 169; p. 252.
Palmer, Granville E., Hartford, Conn. Meter connection-block. No. 993,099; May 23; Sp. p. 4880; Gaz. vol. 166; p. 885.
Palmer, Granville E., Boston, Mass., and W. E. McCoy, New York, N. Y. Service terminal block. No. 993,098; May 23; Sp. p. 4874; Gaz. vol. 166; p. 884.
Palmer, Herbert R., assignor of one-fourth to F. W. Cook, Cleveland, one-fourth to P. North, and one-fourth to J. R. Sprankle, Lakewood, Ohio. Socket-wrench. No. 990,382; Apr. 25; Sp. p. 4517; Gaz. vol. 165; p. 797.
Palmer, Herman H., assignor to F. E. Palmer, New York, N. Y. Lamp-shade holder. No. 1,010,307; Nov. 28; Sp. p. 5832; Gaz. vol. 172; p. 1039.
Palmer, Isaac E., Middletown, Conn. Apparatus for treating textile fabrics. No. 985,695; Feb. 28; Sp. p. 5300; Gaz. vol. 163; p. 933.
Palmer, Isaac E., Middletown, Conn. Thread-guide. No. 988,283; Mar. 28; Sp. p. 5359; Gaz. vol. 164; p. 948.
Palmer, Isaac E., Middletown, Conn. Textile-conditioning apparatus. No. 1,001,435; Aug. 22; Sp. p. 4803; Gaz. vol. 169; p. 865.
Palmer, Isaac E., Middletown, Conn. Running-gear for vehicles. No. 1,008,612; Nov. 14; Sp. p. 2235; Gaz. vol. 172; p. 380.
Palmer, Isaac E., Middletown, Conn. Conditioning textile material. No. 1,008,613; Nov. 14; Sp. p. 2238; Gaz. vol. 172; p. 381.
Palmer, Isaac E., Middletown, Conn. Running-gear for vehicles. No. 1,009,336; Nov. 21; Sp. p. 3819; Gaz. vol. 172; p. 665.
Palmer, Isaac E., Middletown, Conn. Binding-post for loose leaves and other purposes. No. 1,009,556; Nov. 21; Sp. p. 4307; Gaz. vol. 172; p. 742.

Alphabetical list of patentees—Continued.

Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Hammock. No. 985,055; Feb. 21; Sp. p. 3849; Gaz. vol. 163; p. 679.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Making fulled-valance hammocks. No. 995,554; June 20; Sp. p. 3174; Gaz. vol. 167; p. 565.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Hammock suspension means. No. 996,028; June 20; Sp. p. 4200; Gaz. vol. 167; p. 730.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Integral fulled-valance hammock. No. 996,029; June 20; Sp. p. 4202; Gaz. vol. 167; p. 730.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Couch-hammock. (Reissue.) No. 13,282; Aug. 15; Sp. p. 3791; Gaz. vol. 169; p. 677.
Palmer, Isaac E., assignor to The I. E. Palmer Co., Middletown, Conn. Adjustable couch-hammock and frame therefor. No. 1,008,614; Nov. 14; Sp. p. 2239; Gaz. vol. 172; p. 381.
Palmer, James A., Boston, Mass. Music-stand and leaf-turning apparatus. No. 1,008,671; Nov. 14; Sp. p. 2365; Gaz. vol. 172; p. 399.
Palmer, James F., Claxton, Ga. Automatic sacking and weighing machine. No. 1,010,308; Nov. 28; Sp. p. 5833; Gaz. vol. 172; p. 1039.
Palmer, James W. (See Hawley and Palmer.)
Palmer, Laurence P., Uniontown, Pa. Coke-oven. No. 992,812; May 23; Sp. p. 4240; Gaz. vol. 166; p. 782.
Palmer, Merritt W., Allegan, Mich. Merry-go-round. No. 989,280; Apr. 11; Sp. p. 2089; Gaz. vol. 165; p. 357.
Palmer, Roderick M., Cambridge, assignor to J. H. Cary, Boston, Mass. System of electrical distribution. No. 991,080; May 2; Sp. p. 526; Gaz. vol. 166; p. 90.
Palmer, Theodore D., Syracuse, N. Y. Cloth-pressing machine. No. 1,007,137; Oct. 31; Sp. p. 5702; Gaz. vol. 171; p. 1046.
Palmer, Theodore D., Syracuse, N. Y. Garment-pressing machine. No. 1,011,362; Dec. 12; Sp. p. 2181; Gaz. vol. 173; p. 371.
Palmer, Truman G., Chicago, Ill. Nut-lock. No. 998,795; July 25; Sp. p. 4796; Gaz. vol. 168; p. 867.
Palmer, Truman G., Chicago, Ill. Nut-lock. No. 998,796; July 25; Sp. p. 4797; Gaz. vol. 168; p. 867.
Palmer, Truman G., Chicago, Ill. Nut-lock. No. 998,797; July 25; Sp. p. 4799; Gaz. vol. 168; p. 867.
Palmer, Victor C., H. Joseph, and J. F. Sullivan, Norwood, Colo. Sweep-rake approach. No. 982,386; Jan. 24; Sp. p. 4886; Gaz. vol. 162; p. 846.
Palmer, Walter E., Cicero, Ill. Tabulator-stop-setting device. No. 1,008,053; Nov. 7; Sp. p. 873; Gaz. vol. 172; p. 140.
Palmer, Walter G., Mount Hood, Oreg. Railway mail-bag-receiving device. No. 983,513; Feb. 7; Sp. p. 547; Gaz. vol. 163; p. 87.
Palmer, Walter G., Mount Hood, Oreg. Railway mail-bag-delivering device. No. 983,514; Feb. 7; Sp. p. 549; Gaz. vol. 163; p. 88.
Palmer, Walter H., Porsgrund, Norway, assignor to Marpal, Limited, London, England. Explosive. No. 990,585; Apr. 25; Sp. p. 4986; Gaz. vol. 165; p. 869.
Palmer, William A., Ludlow, Ky. Car-coupling. No. 984,390; Feb. 14; Sp. p. 2457; Gaz. vol. 163; p. 415.
Palmer, William H., Fort Scott, Kans. Force-draft hollow grate-bar. No. 997,507; July 11; Sp. p. 1878; Gaz. vol. 168; p. 338.
Palmer, William R., assignor of one-half to F. A. Wilmot, Bridgeport, Conn. Producing high-grade steel from low-grade material. (Reissue.) No. 13,264; June 27; Sp. p. 5487; Gaz. vol. 167; p. 960.
Palmer, Winfield S., Glenburn, Pa. Vehicle suspension. No. 988,500; Apr. 4; Sp. p. 442; Gaz. vol. 165; p. 72.
Palmieri, Giuseppe, and G. Cirillo, New York, N. Y. Automatic fire-alarm and fire-extinguisher. No. 1,010,681; Dec. 5; Sp. p. 618; Gaz. vol. 173; p. 98.
Palmiter, Frank, assignor to Indiana Anchor Fence Co., South Bend, Ind. Clutch. No. 1,010,682; Dec. 5; Sp. p. 619; Gaz. vol. 173; p. 99.
Palmquist, Anton. (See Hanson and Palmquist.)
Palócz, Ignatz, Budapest, Austria-Hungary. Inhaling device. No. 994,869; June 13; Sp. p. 1706; Gaz. vol. 167; p. 305.
Pampe, Franz, Halle-on-the-Saale, Germany. Cooking maize or other cereals. No. 999,852; Aug. 8; Sp. p. 1305; Gaz. vol. 169; p. 253.
Pampe, Franz, Halle-on-the-Saale, Germany. Distillation process. No. 1,007,967; Nov. 7; Sp. p. 714; Gaz. vol. 172; p. 112.
Panasci, Angelo, Philadelphia, Pa. Dish-washing machine. No. 981,221; Jan. 10; Sp. p. 2419; Gaz. vol. 162; p. 392.
Pancoast, George E., New York, N. Y. Rotary printing-press. No. 1,006,782; Oct. 24; Sp. p. 4884; Gaz. vol. 171; p. 868.
Pancoast, George E., assignor to R. Hoe and Co., New York, N. Y. Matrix-drying press. No. 1,008,556; Nov. 14; Sp. p. 2097; Gaz. vol. 172; p. 359.
Pancoast, Laura T. (See Pancoast, Richard M., assignor.)
Pancoast, Richard M., assignor to L. T. Pancoast, Camden, N. J. Corn slitter and scraper. No. 983,515; Feb. 7; Sp. p. 553; Gaz. vol. 163; p. 88.
Pandow, Emil G., assignor of one-half to G. W. Costello, Chicago, Ill. Auxiliary folding seat for automobiles. No. 989,281; Apr. 11; Sp. p. 2092; Gaz. vol. 165; p. 357.
Pantlind, Fred Z. (See Annable, Warren W., assignor.)
Paoli, Arturo, South Range, Mich. Magic lantern. No. 1,002,078; Aug. 29; Sp. p. 6147; Gaz. vol. 169; p. 1111.
Pape, Amand, Willow Springs, Ill. Mowing-machine. No. 1,009,853; Nov. 28; Sp. p. 4906; Gaz. vol. 172; p. 887.
Pape, Charles O., Waupeton, Iowa. Dumping-vehicle. No. 980,556; Jan. 3; Sp. p. 828; Gaz. vol. 162; p. 133.
Papec Machine Co. (See Preston, Ward H., assignor.)
Papendry, Joseph N., East Liverpool, Ohio. Combination-pot. No. 994,949; June 13; Sp. p. 1887; Gaz. vol. 167; p. 332.
Papendry, Joseph N., East Liverpool, Ohio. Rail-joint. No. 1,004,067; Sept. 26; Sp. p. 4150; Gaz. vol. 170; p. 745.
Papendry, Joseph N., East Liverpool, Ohio. Mail-bag catcher and deliverer. No. 1,004,068; Sept. 26; Sp. p. 4151; Gaz. vol. 170; p. 745.
Paper Manufacturing Company. (See Noble, John O., assignor.)
Papke, Charles O. (See Connolly, Fisher, and Papke.)
Papp, Orest, Siedliska, Austria-Hungary. Antirefillable bottle. No. 994,601; June 6; Sp. p. 1034; Gaz. vol. 167; p. 172.
Paquet, Joseph A., Quebec, Quebec, Canada. Type-writer attachment. No. 1,007,233; Oct. 31; Sp. p. 5915; Gaz. vol. 171; p. 1080.
Paquet, Pierre J., Jeannette, Pa. Glass-furnace. No. 1,000,546; Aug. 15; Sp. p. 2859; Gaz. vol. 169; p. 524.
Paquette, Exilias, assignor to Lawrence Manufacturing Company, Lowell, Mass. Knitting-machine. No. 985,927; Mar. 7; Sp. p. 360; Gaz. vol. 164; p. 58.
Paquette, Exilias, assignor to Lawrence Manufacturing Company, Lowell, Mass. Circular-knitting machine. No. 985,928; Mar. 7; Sp. p. 368; Gaz. vol. 164; p. 59.
Paquette, Exilias, assignor to Lawrence Manufacturing Company, Lowell, Mass. Circular-knitting machine. No. 999,853; Aug. 8; Sp. p. 1306; Gaz. vol. 169; p. 253.
Paquette, Exilias, assignor to Lawrence Manufacturing Company, Lowell, Mass. Circular-knitting machine. No. 999,854; Aug. 8; Sp. p. 1314; Gaz. vol. 169; p. 253.
Paquette, Severin N., Lowell, assignor to Draper Company, Hopedale, Mass. Bobbin-stripper for filling-replenishing looms. No. 982,741; Jan. 24; Sp. p. 5619; Gaz. vol. 162; p. 965.
Paquin, Alphonse. (See Vessot, Nadeau, and Paquin.)
Paquin, Ozias, St. Louis, Mo. Rotary cutting device. No. 1,006,783; Oct. 24; Sp. p. 4890; Gaz. vol. 171; p. 868.
Paradine, Thomas G., Erie, Pa. Stop-cock box. No. 997,412; July 11; Sp. p. 1697; Gaz. vol. 168; p. 308.
Paradis, Albert, Philadelphia, Pa., assignor to Samuel Sternberger Company. Shaper for neckbands of shirts. No. 995,170; June 13; Sp. p. 2344; Gaz. vol. 167; p. 405.
Paramount Knitting Company. (See Prosser, Joseph G., assignor.)
Parbel, Joseph, Muskegon, Mich. Envelop. No. 981,107; Jan. 10; Sp. p. 2128; Gaz. vol. 162; p. 351.
Parcell, Russell L. (See Mealy and Parcell.)
Pardon, Frank H., Owensboro, Ky. Fish-hook. No. 991,800; May 9; Sp. p. 2075; Gaz. vol. 166; p. 372.
Paré, Cyrille, Leicester, Mass. Window-shade fixture. No. 1,001,884; Aug. 29; Sp. p. 5752; Gaz. vol. 169; p. 1049.
Parent, Arthur E., Laramie, Wyo. Milk and cream capsule. No. 991,354; May 2; Sp. p. 1129; Gaz. vol. 166; p. 189.
Parent, Georges A., Paris, and E. and L. Artusse, Forges-de-Sedan, Sedan, France. Manufacture of rolled hinges in which the knuckles are rolled with their leaves. No. 1,011,998; Dec. 19; Sp. p. 3607; Gaz. vol. 173; p. 629.
Parenteau, Napoleon, Worcester, Mass. Drinking-tube. No. 1,001,218; Aug. 22; Sp. p. 4347; Gaz. vol. 169; p. 791.
Parham, Henry C., Moultrie, Ga. Plow. No. 1,005,461; Oct. 10; Sp. p. 1939; Gaz. vol. 171; p. 343.
Paris, James J., Chicago, Ill. Combined cane and stool. No. 984,292; Feb. 14; Sp. p. 2268; Gaz. vol. 163; p. 384.
Paris, William A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller for electric motors. No. 989,401; Apr. 11; Sp. p. 2351; Gaz. vol. 165; p. 397.
Parisano, Michael A., New York, N. Y. Flying-machine. No. 987,596; Mar. 21; Sp. p. 3857; Gaz. vol. 164; p. 687.
Parisano, Michael A., New York, N. Y. Wireless telegraphic apparatus. No. 992,042; May 9; Sp. p. 2556; Gaz. vol. 166; p. 454.
Parish, Harold F., New York, N. Y., assignor to Grinden Art Metal Company. Metallic structure, such as doors and the like. No. 1,003,784; Sept. 19; Sp. p. 3485; Gaz. vol. 170; p. 620.
Parish, Le Grand, *et al.* (See Grahn, Thorwald E., assignor.)
Parish Manufacturing Company. (See Parish, Neff E., assignor.)
Parish, Neff E., assignor to Parish Manufacturing Company, Reading, Pa. Shearing-machine. No. 1,002,746; Sept. 5; Sp. p. 1266; Gaz. vol. 170; p. 189.

Alphabetical list of patentees—Continued.

Parish, Neff E., assignor to Parish Manufacturing Company, Reading, Pa. Hydraulic press. No. 1,002,747; Sept. 5; Sp. p. 1267; Gaz. vol. 170; p. 190.
Park, John S., Rockport, Ind. Flue-scraper. No. 991,355; May 2; Sp. p. 1130; Gaz. vol. 166; p. 189.
Park, John S., Rockport, Ind. Plow. No. 991,452; May 2; Sp. p. 1325; Gaz. vol. 166; p. 221.
Park, William H., New York, N. W. Pasteurizing. No. 1,009,686; Nov. 21; Sp. p. 4543; Gaz. vol. 172; p. 783.
Parke, Davis & Company. (See Wilkie, James, assignor.)
Parke, Roderick J., *et al.* (See Ogden, George J., assignor.)
Parker, Alfred L., Detroit, Mich. Attachment for shears. No. 1,001,979; Aug. 29; Sp. p. 5958; Gaz. vol. 169; p. 1080.
Parker, Charles C., assignor to P. Peterson, Baltimore, Md. Bottle-sealing device. No. 1,002,079; Aug. 29; Sp. p. 6150; Gaz. vol. 169; p. 1112.
Parker, Charles D., Worcester, Mass. Valve-gear for engines. No. 983,564; Feb. 7; Sp. p. 681; Gaz. vol. 163; p. 105.
Parker, Charles D., Worcester, Mass. Spraying-nozzle. No. 1,011,999; Dec. 19; Sp. p. 3609; Gaz. vol. 173; p. 629.
Parker, Charles H., Los Angeles, Cal. Root-forceps. No. 996,030; June 20; Sp. p. 4206; Gaz. vol. 167; p. 731.
Parker, Charles H., Kansas City, Mo. Wrench. No. 1,009,090; Nov. 21; Sp. p. 3261; Gaz. vol. 172; p. 577.
Parker, Charles R. (See Pierce and Parker.)
Parker, Charles R., and R. D. Wirt, assignors to General Utility Co., Philadelphia, Pa. Automobile-lock. No. 991,014; May 2; Sp. p. 394; Gaz. vol. 166; p. 67.
Parker, Charles R., and R. D. Wirt, assignors to General Utility Co., Philadelphia, Pa. Automobile-lock. No. 992,444; May 16; Sp. p. 3472; Gaz. vol. 166; p. 625.
Parker, Charles R., and R. D. Wirt, assignors to General Utility Company, Philadelphia, Pa. Automobile-lock. No. 993,544; May 30; Sp. p. 5826; Gaz. vol. 166; p. 1063.
Parker-Clark Electric Company. (See Baker, King, and Parker, assignors.)
Parker, Clark W., assignor to Parker Transmission & Appliance Company, Springfield, Mass. Clutch mechanism for transmission-gearings. No. 982,855; Jan. 31; Sp. p. 5887; Gaz. vol. 162; p. 1034.
Parker, Clark W., assignor to Parker Transmission & Appliance Company, Springfield, Mass. Transmission-gearing. No. 982,856; Jan. 31; Sp. p. 5889; Gaz. vol. 162; p. 1034.
Parker, Clark W., assignor to Parker Transmission and Appliance Company, Springfield, Mass. Controlling-lever mechanism. No. 982,857; Jan. 31; Sp. p. 5896; Gaz. vol. 162; p. 1035.
Parker, Clark W., assignor to Parker Transmission and Appliance Company, Springfield, Mass. Controlling means for transmission-gearing. No. 983,249; Jan. 31; Sp. p. 6717; Gaz. vol. 162; p. 1165.
Parker Clock Company, The. (See Wachtelhausen, Henry, assignor.)
Parker, David E., Niagara Falls, N. Y. Device for generating and administering oxygen. No. 980,996; Jan. 10; Sp. p. 1874; Gaz. vol. 162; p. 312.
Parker, Edward H., New York, N. Y. Lightning-rod cable. No. 1,004,681; Oct. 3; Sp. p. 276; Gaz. vol. 171; p. 48.
Parker, Emer H., Evanston, assignor to The Liquid Carbonic Company, Chicago, Ill. Bottle-filling machine. No. 995,711; June 20; Sp. p. 3523; Gaz. vol. 167; p. 621.
Parker, Francis M. (See Herndon, Paul H., assignor.)
Parker, Frederick R., Chicago, Ill. Telephone system and signaling apparatus. No. 1,000,340; Aug. 8; Sp. p. 2373; Gaz. vol. 169; p. 419.
Parker, George D. (See Lefferts, Dwight C., assignor.)
Parker, George D., Riverside, Cal. Box-making machine. No. 980,431; Jan. 3; Sp. p. 521; Gaz. vol. 162; p. 89.
Parker, George D., Riverside, Cal. Box-making machine. No. 982,439; Jan. 24; Sp. p. 4992; Gaz. vol. 162; p. 864.
Parker, George D., Riverside, Cal. Fruit-box press. No. 985,540; Feb. 28; Sp. p. 4972; Gaz. vol. 163; p. 880.
Parker, George D., Riverside, Cal. Press. No. 986,589; Mar. 14; Sp. p. 1768; Gaz. vol. 164; p. 313.
Parker, George D., Riverside, Cal. Box-making machine. No. 993,545; May 30; Sp. p. 5829; Gaz. vol. 166; p. 1063.
Parker, George D., Riverside, Cal. Fruit-separator. No. 994,654; June 6; Sp. p. 1162; Gaz. vol. 167; p. 190.
Parker, George D., Riverside, Cal. Fruit-drying apparatus. No. 995,282; June 13; Sp. p. 2550; Gaz. vol. 167; p. 442.
Parker, George D., Riverside, Cal. Fruit sizer or grader. No. 997,468; July 11; Sp. p. 1798; Gaz. vol. 168; p. 326.
Parker, George D., Riverside, Cal. Box-making machine. No. 1,007,234; Oct. 31; Sp. p. 5918; Gaz. vol. 171; p. 1080.
Parker, George E., Brookline, assignor to Heaton-Peninsular Button Fastener Company, Boston, Mass. Button-setting machine. No. 982,296; Jan. 24; Sp. p. 4706; Gaz. vol. 162; p. 813.
Parker, George S., Janesville, Wis. Fountain-pen. No. 990,288; Apr. 25; Sp. p. 4285; Gaz. vol. 165; p. 764.
Parker, George W. (See Pinder, Rudolph, assignor.)
Parker, Harold F., Dorchester Center, Mass. Balancing means for aeroplanes. No. 1,010,946; Dec. 5; Sp. p. 1211; Gaz. vol. 173; p. 191.
Parker, Harry C., Ironton, Ohio. Apparatus for recovering metal from blast-furnace dust. No. 987,739; Mar. 28; Sp. p. 4187; Gaz. vol. 164; p. 764.
Parker, Henry M., Willets, N. C. Tilling-machine. No. 1,010,947; Dec. 5; Sp. p. 1214; Gaz. vol. 173; p. 191.
Parker, Herschel C. (See Baker, King, and Parker.)
Parker, Howard, Nashua, N. H. Impeller. No. 1,004,543; Sept. 26; Sp. p. 5158; Gaz. vol. 170; p. 907.
Parker, James C., Woodston, Kans. Indicator for funnels. No. 994,272; June 6; Sp. p. 354; Gaz. vol. 167; p. 60.
Parker, John, Philadelphia, Pa. Evaporator. No. 989,996; Apr. 18; Sp. p. 3663; Gaz. vol. 165; p. 634.
Parker, John, Philadelphia, Pa. Evaporator. No. 1,005,571; Oct. 10; Sp. p. 2210; Gaz. vol. 171; p. 382.
Parker, John A., Terry, Miss. Cotton-chopper. No. 995,895; June 20; Sp. p. 3944; Gaz. vol. 167; p. 683.
Parker, John C., Philadelphia, Pa. Feed-water heater for preventing pitting. No. 985,834; Mar. 7; Sp. p. 149; Gaz. vol. 164; p. 27.
Parker, John H. (See Armstrong and Parker.)
Parker, John H., *et al.* (See Hirst, Harry R., assignor.)
Parker, Paul R. (See Ferris and Parker.)
Parker, Pitman W., San Diego, Cal. Vacuum cleaning apparatus. No. 987,820; Mar. 28; Sp. p. 4356; Gaz. vol. 164; p. 793.
Parker, Pitman W., San Diego, Cal. Vacuum cleaning device. No. 1,007,888; Nov. 7; Sp. p. 548; Gaz. vol. 172; p. 84.
Parker, Ralzemond A., *et al.* (See Porter, Joseph Y., assignor.)
Parker, Richard, and W. E. Harrison, Uno Park, Ontario, Canada. Traction-engine. No. 989,035; Apr. 11; Sp. p. 1562; Gaz. vol. 165; p. 273.
Parker, Robert L., Sandy, Okla. Cow-yoke. No. 989,402; Apr. 11; Sp. p. 2355; Gaz. vol. 165; p. 398.
Parker, Thomas H., Dallas, Tex. Closet-flushing mechanism. No. 995,555; June 20; Sp. p. 3179; Gaz. vol. 167; p. 565.
Parker, Thomas H., Kew Gardens, England. Nozzle for carbureters. No. 1,003,291; Sept. 12; Sp. p. 2430; Gaz. vol. 170; p. 418.
Parker, Thomas R. G. (See Pearce and Parker.)
Parker, Thomas R. G. (See Stern and Parker.)
Parker, Thomas T., Hackensack, N. J. Boiler. No. 994,655; June 6; Sp. p. 1165; Gaz. vol. 167; p. 191.
Parker, Thomas T., Hackensack, N. J. Boiler. No. 994,656; June 6; Sp. p. 1170; Gaz. vol. 167; p. 191.
Parker Transmission & Appliance Company. (See Parker, Clark W., assignor.)
Parker, Walter M., Covington, Va. Holder for manifolding account-books. No. 1,010,683; Dec. 5; Sp. p. 620; Gaz. vol. 173; p. 99.
Parker-Washington Company. (See Ballintine, Frank J., assignor.)
Parker, William, Tooele, Utah. Trap. No. 982,387; Jan. 24; Sp. p. 4888; Gaz. vol. 162; p. 847.
Parker, William A., assignor to Beck & Gregg Hardware Co., Atlanta, Ga. Disk fender. No. 1,006,002; Oct. 17; Sp. p. 3140; Gaz. vol. 171; p. 564.
Parker, William E., Dowagiac, Mich. Gas-engine. No. 996,126; June 27; Sp. p. 4416; Gaz. vol. 167; p. 799.
Parker, William J. (See Huggins and Parker.)
Parkersburg Steel Baler Company. (See Daubenspeck, Peter E., assignor.)
Parkerson, James G., Jr., La Fayette, La. Fan. No. 1,005,572; Oct. 10; Sp. p. 2213; Gaz. vol. 171; p. 383.
Parkes Machine Company, The. (See Parkes, William N., assignor.)
Parkes, William N., assignor to The Parkes Machine Company, New York, N. Y. Sewing-machine. No. 994,532; June 6; Sp. p. 892; Gaz. vol. 167; p. 148.
Parkhill, Edward W., and L. J. Wright, Burlington, Vt. Bundle-binding machine. No. 990,768; Apr. 25; Sp. p. 5394; Gaz. vol. 165; p. 930.
Parkhurst Company, The. (See Parkhurst, Layton M., assignor.)
Parkhurst, Edson O. (See Lincoln and Parkhurst.)
Parkhurst, Layton M., assignor to The Parkhurst Company, Indianapolis, Ind. Machine for preparing rolls of postage-stamps. No. 983,759; Feb. 7; Sp. p. 1074; Gaz. vol. 163; p. 172.
Parkhurst, Leon F., Pittsfield, Mass., assignor to General Electric Company. Flat-iron stand. No. 1,010,518; Dec. 5; Sp. p. 269; Gaz. vol. 173; p. 42.
Parkhurst, Lincoln P., Grand Rapids, Mich. Hospital appliance. No. 999,855; Aug. 8; Sp. p. 1318; Gaz. vol. 169; p. 254.
Parkhurst, Warner, Plainville, Kans. Corn-cultivator. No. 996,512; June 27; Sp. p. 5299; Gaz. vol. 167; p. 929.
Parkin, Winfred T., assignor to Fessenden and Company, Inc., Providence, R. I. Tea and coffee strainer. No. 989,403; Apr. 11; Sp. p. 2356; Gaz. vol. 165; p. 398.
Parkinson, Benoni, East Greenwich, R. I. Feed-table for tentering-machines. No. 1,008,193; Nov. 7; Sp. p. 1166; Gaz. vol. 172; p. 191.

Parkinson, John, Los Angeles, Cal. Automobile top-holder. No. 991,167; May 2; Sp. p. 725; Gaz. vol. 166; p. 123.
Parkinson and W. & B. Cowan Limited. (See Beasley, Fredric G., assignor.)
Parkinson and W. & B. Cowan Limited. (See Beasley and Bradbury, assignors.)
Parkinson and W. and B. Cowan Limited. (See Cheshire and Weippert, assignors.)
Parkmire, Frank A., Louisville, Ky. Photographic developing and fixing apparatus. No. 987,821; Mar. 28; Sp. p. 4357; Gaz. vol. 164; p. 793.
Parks, Charles B., and B. E. Sturdevant, assignors, by mesne assignments, to C. T. Thorbus, Sparta, Wis. Grain-separator. No. 984,487; Feb. 14; Sp. p. 2644; Gaz. vol. 163; p. 446.
Parks, Edward F. (See Wardwell and Parks.)
Parks, Edward F., and S. W. Wardwell, Providence, R. I. Braiding-machine. No. 981,938; Jan. 17; Sp. p. 3963; Gaz. vol. 162; p. 662.
Parks, Edward F., and S. W. Wardwell, Providence, R. I. Braiding-machine. No. 1,000,436; Aug. 15; Sp. p. 2608; Gaz. vol. 169; p. 485.
Parks, Frederick R., Hamburg, N. Y. Poultry feed-trough. No. 989,282; Apr. 11; Sp. p. 2095; Gaz. vol. 165; p. 358.
Parks, George P., *et al.* (See Pearson, Eliphalet L., assignor.)
Parks, John R., Spokane, Wash. Apparatus for obtaining precious metals. No. 984,842; Feb. 21; Sp. p. 3440; Gaz. vol. 163; p. 607.
Parks, Lewis F., Cincinnati, Ohio. Woodworking machinery. No. 989,283; Apr. 11; Sp. p. 2095; Gaz. vol. 165; p. 358.
Parks, Lewis F., Cincinnati, Ohio. Woodworking machinery. No. 989,284; Apr. 11; Sp. p. 2100; Gaz. vol. 165; p. 358.
Parks, Lewis F., Cincinnati, Ohio. Combination wood-working-machine. No. 989,285; Apr. 11; Sp. p. 2105; Gaz. vol. 165; p. 359.
Parks, Otto C., Billings, Mont. Ditching-machine. No. 994,781; June 13; Sp. p. 1496; Gaz. vol. 167; p. 275.
Parks, Paul B., and M. G. Singleton, Morganton, N. C. Knot-tying implement. No. 1,002,437; Sept. 5; Sp. p. 583; Gaz. vol. 170; p. 84.
Parks, Thomas J., Charley, Ky. Lock-nut. No. 994,688; June 6; Sp. p. 1253; Gaz. vol. 167; p. 203.
Parks, W. P. (See Estes, John W., assignor.)
Parks, William J. (See Skowronski and Parks.)
Parlin & Orendorff Company. (See Graham, William S., assignor.)
Parmenter, George A., Cambridge, Mass. Life-guard for railway-cars. No. 985,541; Feb. 28; Sp. p. 4975; Gaz. vol. 163; p. 880.
Parmenter, George A., Cambridge, Mass. Life-guard for railway-cars. No. 985,542; Feb. 28; Sp. p. 4977; Gaz. vol. 163; p. 881.
Parmenter, George A., Cambridge, Mass. Life-guard or fender for railway-cars. No. 1,007,600; Oct. 31; Sp. p. 6701; Gaz. vol. 171; p. 1207.
Parmer, George W., and J. W. Miller, Sunset, Tex. Cultivator attachment. No. 986,209; Mar. 7; Sp. p. 940; Gaz. vol. 164; p. 153.
Parnell, Edwin A., Kelso, near Bathurst, New South Wales, Australia. Handle-fastening for picks and like implements. No. 1,000,754; Aug. 15; Sp. p. 3320; Gaz. vol. 169; p. 599.
Paro, Simon L., Annapolis, and S. B. Hadsell, Baltimore, Md. Awning. No. 986,852; Mar. 14; Sp. p. 2323; Gaz. vol. 164; p. 402.
Parpart, Otto, assignor to The Standard Tool Company, Cleveland, Ohio. Tap-wrench. No. 994,477; June 6; Sp. p. 769; Gaz. vol. 167; p. 130.
Parr, Clarence F., Wentworth, S. D. Sack-holder. No. 991,081; May 2; Sp. p. 528; Gaz. vol. 166; p. 91.
Parr, Walter E., Springfield, Mo. Speed-indicator. No. 1,004,544; Sept. 26; Sp. p. 5159; Gaz. vol. 170; p. 907.
Parrett, James, Wenona, Ill. Magazine-pouch for hunting-coats. No. 995,086; June 13; Sp. p. 2183; Gaz. vol. 167; p. 379.
Parris, Frank E., Urbana, Ill. Roof-scaffold. No. 988,808; Apr. 4; Sp. p. 1106; Gaz. vol. 165; p. 176.
Parrish, Herbert L., Benton Harbor, Mich. Automobile-truck. No. 1,005,065; Oct. 3; Sp. p. 1070; Gaz. vol. 171; p. 179.
Parrish, Stephen E., Hillsdale, Mich. Insulating-jacket for ice-cream pails. No. 1,009,993; Nov. 28; Sp. p. 5187; Gaz. vol. 172; p. 932.
Parrish, William N., Richmond, Ind. Wire-fence machine. No. 984,021; Feb. 14; Sp. p. 1679; Gaz. vol. 163; p. 290.
Parrish, William N., Richmond, Ind. Fence-machine. No. 1,009,994; Nov. 28; Sp. p. 5188; Gaz. vol. 172; p. 932.
Parrott, Bert R., Jackson, Mich. Valve for water-heaters. No. 984,440; Feb. 14; Sp. p. 2551; Gaz. vol. 163; p. 432.
Parry, Frank, Brightwater, British Columbia, Canada. Trough for fish-hatcheries. No. 1,007,383; Oct. 31; Sp. p. 6227; Gaz. vol. 171; p. 1133.
Parry, Harvey H., Flint, assignor of one-half to S. F. L. Dean, Columbus, Ohio. Railway-tie. No. 999,250; Aug. 1; Sp. p. 116; Gaz. vol. 169; p. 21.
Parry Manufacturing Company. (See Parry and Byers, assignors.)
Parry, Marvin E., assignor to D. R. Fritts, Syracuse, N. Y. Stovepipe-joint. No. 1,011,363; Dec. 12; Sp. p. 2182; Gaz. vol. 173; p. 372.
Parry, Robert A. (See Bennett and Parry.)
Parry, Thomas H., and W. J. Byers, assignors to Parry Manufacturing Company, Indianapolis, Ind. Vehicle-body. No. 997,508; July 11; Sp. p. 1883; Gaz. vol. 168; p. 339.
Parshall, George W., Cooperstown, N. Y. Bottle-filling machine. No. 1,000,547; Aug. 15; Sp. p. 2863; Gaz. vol. 169; p. 525.
Parsley, James A., *et al.* (See Klitz, Peter, assignor.)
Parslow, Edmund S., New York, N. Y. Liquid-coating device. No. 1,006,672; Oct. 24; Sp. p. 4662; Gaz. vol. 171; p. 831.
Parslow, Edmund S., and E. T. Higgins, New York, N. Y. Non-refillable bottle. No. 989,187; Apr. 11; Sp. p. 1878; Gaz. vol. 165; p. 326.
Parson, Berton J., Joliette, N. D. Sack-holder. No. 992,445; May 16; Sp. p. 3473; Gaz. vol. 166; p. 625.
Parson, Henry E., New York, N. Y. Grate for mechanical stokers. No. 992,685; May 16; Sp. p. 3967; Gaz. vol. 166; p. 708.
Parson, Henry E., New York, N. Y. Coal-feeder for mechanical stokers. No. 992,686; May 16; Sp. p. 3969; Gaz. vol. 166; p. 708.
Parson, Henry M., Elizabeth, N. J., assignor to Parson Stoker Company. Furnace practice. No. 991,637; May 9; Sp. p. 1741; Gaz. vol. 166; p. 320.
Parson Stoker Company. (See Parson, Henry M., assignor.)
Parsons, Arthur E., trustee. (See Tomlinson, Charles E., assignor.)
Parsons, Charles A. (See Ridsdale and Cook, assignors.)
Parsons, Charles A., Newcastle-upon-Tyne, England. Means for preventing a quick heating of motors operated by hot fluid. No. 986,941; Mar. 14; Sp. p. 2501; Gaz. vol. 164; p. 433.
Parsons, Charles A., Newcastle-upon-Tyne, England. Turbine. No. 986,942; Mar. 14; Sp. p. 2504; Gaz. vol. 164; p. 433.
Parsons, Charles A., Newcastle-upon-Tyne, England. Strips for turbine-blades. No. 994,029; May 30; Sp. p. 6845; Gaz. vol. 166; p. 1229.
Parsons, Charles A., Newcastle-upon-Tyne, England. Gearing for turbines. No. 997,635; July 11; Sp. p. 2163; Gaz. vol. 168; p. 384.
Parsons, Charles A., Newcastle-upon-Tyne, England. Marine turbine installation. No. 1,009,784; Nov. 28; Sp. p. 4770; Gaz. vol. 172; p. 863.
Parsons, Charles A., Newcastle-upon-Tyne, and S. S. Cook, Wallsend-upon-Tyne, England; said Cook assignor to said Parsons. Turbine. No. 986,749; Mar. 14; Sp. p. 2099; Gaz. vol. 164; p. 367.
Parsons, Charles A., Newcastle-upon-Tyne, and S. S. Cook, Wallsend, England; said Cook assignor to said Parsons. Marine propulsion. No. 1,006,674; Oct. 24; Sp. p. 4665; Gaz. vol. 171; p. 831.
Parsons, Charles A., Newcastle-upon-Tyne, S. S. Cook and J. Turnbull, Wallsend, England; said Cook and Turnbull assignors to said Parsons. Turbine. No. 1,005,294; Oct. 10; Sp. p. 1571; Gaz. vol. 171; p. 284.
Parsons, Charles A., and A. Q. Carnegie, Newcastle-upon-Tyne, England; said Carnegie assignor to said Parsons. Governing of fluid-operated motors. No. 986,943; Mar. 14; Sp. p. 2513; Gaz. vol. 164; p. 434.
Parsons, Charles A., and A. H. Law, Newcastle-upon-Tyne, England; said Law assignor to said Parsons. Dynamo-electric machinery. No. 997,579; July 11; Sp. p. 2033; Gaz. vol. 168; p. 363.
Parsons, Charles A., and A. H. Law, Newcastle-upon-Tyne, England; said Law assignor to said Parsons. Commutator for dynamo-electric machines. No. 998,386; July 18; Sp. p. 3911; Gaz. vol. 168; p. 693.
Parsons, Charles A., and A. H. Law, Newcastle-upon-Tyne, England; said Law assignor to said Parsons. Regulation of the voltage of alternating-current machines. No. 1,005,293; Oct. 10; Sp. p. 1569; Gaz. vol. 171; p. 283.
Parsons, Charles A., G. G. Stoney, and E. Bennett, Newcastle-upon-Tyne, England; said Stoney and Bennett assignors to said Parsons. Reflector for search-lights and the like. No. 992,043; May 9; Sp. p. 2558; Gaz. vol. 166; p. 455.
Parsons, Charles A., A. H. Law, and J. P. Stockbridge, Newcastle-upon-Tyne, England; said Law and Stockbridge assignors to said Parsons. Commutator of dynamo-electric machines. No. 1,006,673; Oct. 24; Sp. p. 4663; Gaz. vol. 171; p. 831.
Parsons, Charles E. (See Hilliard and Parsons.)
Parsons, Clyde, Hammondsville, Ohio. Wrench. No. 989,404; Apr. 11; Sp. p. 2358; Gaz. vol. 165; p. 398.
Parsons, Edward C., *et al.* (See Vail, Herbert E., assignor.)
Parsons, Edward T., Newark, N. J. Machine for treating dough and the like. No. 990,383; Apr. 25; Sp. p. 4520; Gaz. vol. 165; p. 798.
Parsons Engineering Company. (See Parsons, John H., assignor.)

Alphabetical list of patentees—Continued.

Parsons, Frank E. (See Brooks, Parsons, and Altstetter.)
Parsons, Frank W. (See Ballard and Parsons.)
Parsons, Fred A., and J. H. Myers, Binghamton, N. Y. Combined rotary engine and pump. No. 1,001,162; Aug. 22; Sp. p. 4227; Gaz. vol. 169; p. 773.
Parsons, George, Winnebago, Ill. Valve. No. 1,011,640; Dec. 12; Sp. p. 2834; Gaz. vol. 173; p. 472.
Parsons, John H., Ridley Park, Pa., assignor to Parsons Engineering Company, Wilmington, Del. Promoting combustion. No. 987,316; Mar. 21; Sp. p. 3299; Gaz. vol. 164; p. 593.
Parsons, Richard C., London, England. Centrifugal pump, air-fan, turbine, and the like. No. 998,300; July 18; Sp. p. 3721; Gaz. vol. 168; p. 662.
Parsons, Robert E., *et al.* (See McGee, Arthur C., assignor.)
Parsons, W Buchannan, Missoula, Mont. Hypodermic syringe. No. 996,424; June 27; Sp. p. 5145; Gaz. vol. 167; p. 901.
Parsons, W Buchanan, Missoula, Mont. Crutch. No. 1,004,899; Oct. 3; Sp. p. 777; Gaz. vol. 171; p. 124.
Parsons, William H., Middletown, Cal. Change-speed gearing. No. 992,044; May 9; Sp. p. 2559; Gaz. vol. 166; p. 455.
Parsons, Winslow R., Chicago, Ill., assignor to The Greist Manufacturing Company Sewing-machine ruffler. No. 1,012,000; Dec. 19; Sp. p. 3610; Gaz. vol. 173; p. 630.
Parten, Wilbur, assignor of one-fourth to R. G. Collins, Merkel, Tex. Combined registering and denoting device and label-holder. No. 1,012,905; Dec. 26; Sp. p. 5577; Gaz. vol. 173; p. 984.
Partington, Frederick G., Coeur d'Alene, Idaho. Drinking-cup fountain. No. 1,011,364; Dec. 12; Sp. p. 2183; Gaz. vol. 173; p. 372.
Partridge, Charles F., assignor to Empire Last Works, Rochester, N. Y. Last. No. 992,045; May 9; Sp. p. 2561; Gaz. vol. 166; p. 455.
Partridge, Charles H., Long Buckby, England, assignor to Gimson & Company (Leicester) Limited, Leicester, England. Heel-seat-trimming machine. No. 988,501; Apr. 4; Sp. p. 444; Gaz. vol. 165; p. 72.
Partridge, William, and H. D. Gue, Brooklyn, N. Y. Finishing or ornamenting wood. No. 1,009,436; Nov. 21; Sp. p. 4071; Gaz. vol. 172; p. 702.
Parvin, Kate, executrix. (See Parvin and Muse.)
Parvin, William S., deceased, (K. Parvin, executrix,) and W. J. Muse, Dallas, Tex. Automatic hay-press. No. 986,750; Mar. 14; Sp. p. 2104; Gaz. vol. 164; p. 368.
Parzeller, Heinrich, Essen-on-the-Ruhr, Germany. Compressed-gas generator. No. 989,923; Apr. 18; Sp. p. 3495; Gaz. vol. 165; p. 608.
Pascal, Charles, *et al.* (See Pascal, Israel, assignor.)
Pascal, Israel, assignor of one-fourth to C. Pascal, one-fourth to G. A. Bilot, and one-fourth to L. W. Jacobs, Montreal, Quebec, Canada. Excavator. No. 1,003,149; Sept. 12; Sp. p. 2116; Gaz. vol. 170; p. 364.
Pascal, Israel, assignor of one-fifth to S. Rosenveesen, one-fifth to M. Dobrofsky, one-fifth to H. Astroff, one-fifth to H. Schleifer, and one-tenth to G. A. Bilot, Montreal, Quebec, Canada. Car-fender. No. 994,423; June 6; Sp. p. 672; Gaz. vol. 167; p. 114.
Pascall, Richard H., assignor to The Pickering Governor Co., Portland, Conn. Engine-governor. No. 1,003,198; Sept. 12; Sp. p. 2231; Gaz. vol. 170; p. 383.
Paschall, Arthur L., Silver City, N. Mex. Tooth-cleaning device. No. 1,003,785; Sept. 19; Sp. p. 3486; Gaz. vol. 170; p. 620.
Paschke, Herbert, assignor to The Lane & de Groot Company, New York, N. Y. Life-preserver. No. 999,856; Aug. 8; Sp. p. 1319; Gaz. vol. 169; p. 254.
Pasinetti, Innocent. (See Taylor, Samuel M., assignor.)
Pasley, Ira, Olds, Alberta, Canada, assignor to Sharp & Smith, Chicago, Ill. Emasculator. No. 998,920; July 25; Sp. p. 5083; Gaz. vol. 168; p. 912.
Pasley, Ira, Olds, Alberta, Canada, assignor to Sharp & Smith, Chicago, Ill. Air-pump. No. 1,003,122; Sept. 12; Sp. p. 2071; Gaz. vol. 170; p. 357.
Pasquarelli, Menotti. (See Pordon and Pasquarelli.)
Pass & Seymour. (See Crossley, James S., assignor.)
Pass & Seymour. (See Lux, Julius K., assignor.)
Passaro, Gennaro G., Stamford, Conn. Tank-flushing mechanism. No. 1,000,437; Aug. 15; Sp. p. 2612; Gaz. vol. 169; p. 486.
Passburg, Emil, Berlin, Germany. Drying fish. No. 987,394; Mar. 21; Sp. p. 3465; Gaz. vol. 164; p. 619.
Passburg, Emil, Berlin, Germany. Cylinder-drier. No. 988,022; Mar. 28; Sp. p. 4850; Gaz. vol. 164; p. 863.
Pässler, Emil, Siegmar, near Chemnitz, Germany. Cutting-machine suitable for use in the manufacture of sewed gloves. No. 997,696; July 11; Sp. p. 2285; Gaz. vol. 168; p. 405.
Pastorel, Joseph, Asbury Park, N. J. Unsinkable boat. No. 1,010,309; Nov. 28; Sp. p. 5834; Gaz. vol. 172; p. 1039.
Patchett, Tom, Stoneham, and J. W. Burke, assignors of one-half to Winship, Boit & Co., Wakefield, Mass. Fabric-pressing machine. No. 996,790; July 4; Sp. p. 379; Gaz. vol. 168; p. 64.
Patenall, Thomas H., Wilkinsburg, Pa., and W. W. Talbert, Chicago, Ill., assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,003,199; Sept. 12; Sp. p. 2232; Gaz. vol. 170; p. 384.
Patenaude, Emanuel and S. P., Korbel, Cal. Sash-fastener. No. 988,655; Apr. 4; Sp. p. 786; Gaz. vol. 165; p. 126.
Patenaude, Samuel P. (See Patenaude, Emanuel and S. P.)
Patent Appliance Company, The. (See Skelton, John H., assignor.)
Patent Heading Company, The. (See Schmid, George J., assignor.)
Patent Rapid Scaffold Tie Company Limited, The. (See Jones, Daniel P., assignor.)
Pater, Alphonse J. (See Kloeb, William R., assignor.
Patersen, Anders P. (See Sax, Joseph, assignor.)
Paterson, Dugald S., Philadelphia, Pa. Nut-lock. No. 995,031; June 13; Sp. p. 2055; Gaz. vol. 167; p. 359.
Paterson, Edward A., Port Arthur, Ontario, Canada. Composition of matter for use in making roads and making said composition. No. 987,597; Mar. 21; Sp. p. 3860; Gaz. vol. 164; p. 688.
Paterson, Edward A., Port Arthur, Ontario, Canada. Road and making it. No. 996,513; June 27; Sp. p. 5301; Gaz. vol. 167; p. 930.
Paterson, John A., Wellington, New Zealand. Carbureter. No. 1,011,641; Dec. 12; Sp. p. 2837; Gaz. vol. 173; p. 473.
Paterson, Robert H., Edinburgh, Scotland. Steam-trap. No. 992,687; May 16; Sp. p. 3971; Gaz. vol. 166; p. 709.
Paterson, William C., Denver, Colo. Pulp-agitating apparatus. No. 1,000,689; Aug. 15; Sp. p. 3187; Gaz. vol. 169; p. 576.
Patin, Octave, Paris, France. Ozone-producing apparatus. No. 992,980; May 23; Sp. p. 4619; Gaz. vol. 166; p. 843.
Patitz, Gerhardt J., and C. Sippel, Chicago, Ill., assignors to Kaestner & Co. Manure and garbage incinerator. No. 986,853; Mar. 14; Sp. p. 2325; Gaz. vol. 164; p. 403.
Patitz, Johann F. M., assignor to Allis-Chalmers Company, Milwaukee, Wis. Balancing-machine. No. 995,087; June 13; Sp. p. 2184; Gaz. vol. 167; p. 379.
Patitz, Johann F. M., assignor to Allis-Chalmers Company, Milwaukee, Wis. Steam-turbine. No. 995,367; June 13; Sp. p. 2764; Gaz. vol. 167; p. 471.
Patmor, Charles E., Fairbury, Ill. Railway cross-tie. No. 998,387; July 18; Sp. p 3913; Gaz. vol. 168; p. 693.
Patnaude, William E., Merrimac, assignor to A. L. Boggs, Dorchester, Mass. Liquid-cooler. No. 996,127; June 27; Sp. p. 4419; Gaz. vol. 167; p. 799.
Patnaude, William E., Merrimac, assignor to A. L. Boggs, Dorchester, Mass. Inverted-bottle water-cooler. No. 1,009,437; Nov. 21; Sp. p. 4072; Gaz. vol. 172; p. 702.
Patock, Charles, Chicago, Ill. Packless and quick-acting valve. No. 999,333; Aug. 1; Sp. p. 267; Gaz. vol. 169; p. 49.
Paton, Robert, Narberth, assignor to Keystone Type Foundry, Philadelphia, Pa. Type-casting machine. No. 989,997; Apr. 18; Sp. p. 3665; Gaz. vol. 165; p. 635.
Paton, Robert, assignor of one-third to L. K. Sivertson and one-third to T. N. Putnam, Carrington, N. D. Aeroplane. No. 994,782; June 13; Sp. p. 1497; Gaz. vol. 167; p. 275.
Patric, Charles E., Springfield, Ohio. Planting-machine. No. 982,018; Jan. 17; Sp. p. 4132; Gaz. vol. 162; p. 689.
Patric, Charles E., Springfield, Ohio. Planting-machine. No. 982,089; Jan. 17; Sp. p. 4278; Gaz. vol. 162; p. 712.
Patrick, William P., Enterprise, Miss. Attachment for handles. No. 983,082; Jan. 31; Sp. p. 6386; Gaz. vol. 162; p. 1110.
Patschke, Arthur, Berlin-Wilmersdorf, Germany. Explosive-gas turbine. No. 995,803; June 20; Sp. p. 3744; Gaz. vol. 167; p. 653.
Pattan, Orvie W. (See Morse, John R., assignor.)
Patten, Alonzo R., Fall River, Mass. Box-motion for looms. No. 996,669; July 4; Sp. p. 148; Gaz. vol. 168; p. 26.
Patten, George W., Minneapolis, Minn. Detachable tooth-facing. No. 983,516; Feb. 7; Sp. p. 554; Gaz. vol. 163; p. 88.
Patten, Horace W., Limestone, Me. Barrel-lifter. No. 992,584; May 16; Sp. p. 3776; Gaz. vol. 166; p. 675.
Patten Manufacturing Company. (See Kirk, William C., assignor.)
Patterson, Albert E. and R. E., New Martinsville, W. Va. Voting-booth. No. 982,858; Jan. 31; Sp. p. 5898; Gaz. vol. 162; p. 1035.
Patterson, Alice C. (See Patterson, George L., assignor.)
Patterson-Allen Engineering Company. (See Patterson, Franklin M., assignor.)
Patterson, Arthur L., Albemarle, N. C. Stocking-folder. No. 1,000,289; Aug. 8; Sp. p. 2277; Gaz. vol. 169; p. 403.
Patterson, Charles F. (See Skeen, Samuel T., assignor.)
Patterson, Charles M. (See Shaffner, Samuel C., assignor.) (Reissue.)
Patterson, David W., Helena, Mont. Wheel-mounted scoop. No. 999,857; Aug. 8; Sp. p. 1321; Gaz. vol. 169; p. 255.

Alphabetical list of patentees—Continued.

Patterson, Duncan W., Philadelphia, Pa. Water-softening apparatus. No. 995,556; June 20; Sp. p. 3181; Gaz. vol. 167; p. 565.
Patterson, Edie J., Stockton, Cal. Clutch for reversing-gearing. No. 1,011,481; Dec. 12; Sp. p. 2434; Gaz. vol. 173; p. 415.
Patterson, Franklin M., Philadelphia, Pa., assignor to Patterson-Allen Engineering Company. Valve. No. 985,444; Feb. 28; Sp. p. 4751; Gaz. vol. 163; p. 845.
Patterson, Franklin M., Philadelphia, Pa., assignor to Patterson-Allen Engineering Company. Valve. No. 997,321; July 11; Sp. p. 1529; Gaz. vol. 168; p. 278.
Patterson, George F., Tennallytown, D. C. Automatic razor-stropper. No. 982,859; Jan. 31; Sp. p. 5899; Gaz. vol. 162; p. 1036.
Patterson, George F., Baltimore, Md. Feed-water regulator. No. 1,002,080; Aug. 29; Sp. p. 6153; Gaz. vol. 169; p. 1112.
Patterson, George L., assignor to A. C. Patterson, New York, N. Y. Battery and holder. No. 980,830; Jan. 3; Sp. p. 1395; Gaz. vol. 162; p. 223.
Patterson, George L., assignor to A. C. Patterson, New York, N. Y. Battery and holder. No. 983,760; Feb. 7; Sp. p. 1080; Gaz. vol. 163; p. 173.
Patterson, James B., Philadelphia, Pa. Suspension-couch. No. 1,008,431; Nov. 14; Sp. p. 1806; Gaz. vol. 172; p. 314.
Patterson, James M., Los Angeles, Cal., assignor to National Wrapping Machine Company, Charleston, W. Va. Feeding mechanism for wrapping-machines. No. 982,770; Jan. 24; Sp. p. 5686; Gaz. vol. 162; p. 975.
Patterson, John. (See Moorhead and Patterson.)
Patterson, John C., Philadelphia, Pa. Device for severing and retaining tickets. No. 985,445; Feb. 28; Sp. p. 4754; Gaz. vol. 163; p. 845.
Patterson, John S., Chelsea, assignor to Revere Rubber Company, Boston, Mass. Nipple attachment for rubber hose. No. 986,081; Mar. 7; Sp. p. 695; Gaz. vol. 164; p. 111.
Patterson, John S., Chelsea, assignor to Revere Rubber Company, Boston, Mass. Deckle-strap. No. 989,796; Apr. 18; Sp. p. 3235; Gaz. vol. 165; p. 565.
Patterson, Marcus, Newark, N. J. Flexible molding. No. 1,011,642; Dec. 12; Sp. p. 2838; Gaz. vol. 173; p. 473.
Patterson, Robert I., Muncie, Ind. Lock. No. 1,005,295; Oct. 10; Sp. p. 1575; Gaz. vol. 171; p. 284.
Patterson, Royal E. (See Patterson, Albert E. and R. E.)
Patterson, Samuel P., Brookline, assignor of three-fourths to R. A. Blakemore, Boston, Mass. Word-register for type-writers. No. 990,162; Apr. 18; Sp. p. 3989; Gaz. vol. 165; p. 688.
Patterson and Sons, C. R. (See Gordon, Clay, assignor.)
Patterson, Thomas S., Rosemont, assignor to The Oil and Waste Saving Machine Company, Philadelphia, Pa. Thrust-bearing. No. 987,395; Mar. 21; Sp. p. 3466; Gaz. vol. 164; p. 619.
Patterson, Walter. (See Schlehr and Patterson.)
Patterson, Warren A., St. Louis, Mo. Cotton-gatherer. No. 999,395; Aug. 1; Sp. p. 404; Gaz. vol. 169; p. 71.
Pattinson, Benjamin W., Manitou, Colo. Folding convertible chair. No. 1,002,305; Sept. 5; Sp. p. 271; Gaz. vol. 170; p. 37.
Pattison, Richard, *et al.* (See Proven, Albert, assignor.)
Patton, Albert, McKeesport, Pa. Safety appliance for jib-cranes. No. 992,446; May 16; Sp. p. 3474; Gaz. vol. 166; p. 625.
Patton, Clarence E., assignor to The Acorn Motor Car Company, Cincinnati, Ohio. Driving-gear for vehicles. No. 997,636; July 11; Sp. p. 2166; Gaz. vol. 168; p. 384.
Patton, David W., Moberly, Mo. Injector. No. 1,000,548; Aug. 15; Sp. p. 2865; Gaz. vol. 169; p. 525.
Patton, Deacon O., *et al.* (See Burton, George W., assignor.)
Patton, Herbert W., Indianapolis, Ind. Multipartite multifold-map. No. 1,009,687; Nov. 21; Sp. p. 4546; Gaz. vol. 172; p. 783.
Patton, Howard W. (See Brown, James A., assignor.)
Patton, John B. (See Engberg, Ephraim O., assignor.)
Patton, John J., New York, N. Y. Tire. No. 998,980; July 25; Sp. p. 5237; Gaz. vol. 168; p. 933.
Patton, Moses F., Hollins, Ala. Flying-machine. No. 1,011,365; Dec. 12; Sp. p. 2184; Gaz. vol. 173; p. 372.
Patton, Noah M., Rinard Mills, Ohio. Cider-press. No. 995,283; June 13; Sp. p. 2552; Gaz. vol. 167; p. 442.
Patty, James S., Chicago, Ill., assignor to The Ohio Varnish Company, Cleveland, Ohio. Paint and varnish remover. No. 982,524; Jan. 24; Sp. p. 5193; Gaz. vol. 162; p. 895.
Paty, John G., Shreveport, La. Treating timber with a preservative fluid. No. 985,751; Mar. 14; Sp. p. 2108; Gaz. vol. 164; p. 368.
Paul, Andrew G., Boston, Mass. Heating system. No. 1,008,054; Nov. 7; Sp. p. 877; Gaz. vol. 172; p. 141.
Paul, Arthur B., assignor of one-half to C. Dixon and M. O. Murphy, Woodward, Okla. Screen-door fly-brush. No. 995,896; June 20; Sp. p. 3945; Gaz. vol. 167; p. 684.
Paul Dickinson (Incorporated). (See Caswell, Frederick K., assignor.)
Paul, Hans, Belleville, N. J. Tent. No. 992,383; May 16; Sp. p. 3359; Gaz. vol. 166; p. 604.
Paul, Harry J., and F. Klein, New York, N. Y. Flashlight apparatus. No. 1,004,462; Sept. 26; Sp. p. 5001; Gaz. vol. 170; p. 880.
Paul, Hermann, Breslau, Germany. Corrugating-press. No. 1,007,968; Nov. 7; Sp. p. 717; Gaz. vol. 172; p. 112.
Paul, Ignatz. (See Grimm and Paul.)
Paul, John T. H., assignor to E. Goldman & Co., Inc., Chicago, Ill. Pasteurizer equipment. No. 981,303; Jan. 10; Sp. p. 2590; Gaz. vol. 162; p. 421.
Paul, John T. H., assignor to E. Goldman & Company, Inc., Chicago, Ill. Centrifugal pump. No. 1,012,271; Dec. 19; Sp. p. 4212; Gaz. vol. 173; p. 723.
Paul, John T. H., assignor to E. Goldman & Company, Incorporated, Chicago, Ill. Bottle-carrier. No. 1,013,051; Dec. 26; Sp. p. 5913; Gaz. vol. 173; p. 1034.
Paul, John T. H., assignor to E. Goldman & Company, Incorporated, Chicago, Ill. Conveyer-chain. No. 1,013,052; Dec. 26; Sp. p. 5915; Gaz. vol. 173; p. 1035.
Paul, William J., J. H. Lynch, and J. G. Meyer, Matteawan, N. Y. Furnace for perfecting combustion. No. 1,003,968; Sept. 19; Sp. p. 3893; Gaz. vol. 170; p. 684.
Paul, William J., J. H. Lynch, and J. G. Meyer, Matteawan, N. Y. Perfecting combustion. No. 1,003,969; Sept. 19; Sp. p. 3895; Gaz. vol. 170; p. 684.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Rolling colter. No. 984,103; Feb. 14; Sp. p. 1853; Gaz. vol. 163; p. 318.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Engine gang-plow. No. 984,293; Feb. 14; Sp. p. 2270; Gaz. vol. 163; p. 384.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Pole attachment for sulky-plows. No. 992,585; May 16; Sp. p. 3777; Gaz. vol. 166; p. 675.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Cultivator. No. 1,003,941; Sept. 19; Sp. p. 3841; Gaz. vol. 170; p. 674.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,004,463; Sept. 26; Sp. p. 5004; Gaz. vol. 170; p. 880.
Paul, William L., assignor to Oliver Chilled Plow Works, South Bend, Ind. Lifting means for riding-cultivators. No. 1,010,170; Nov. 28; Sp. p. 5545; Gaz. vol. 172; p. 993.
Paul, William M., New York, N. Y. Antiskidding armor for tires. No. 982,630; Jan. 24; Sp. p. 5386; Gaz. vol. 162; p. 929.
Paulero, Alfonso M., Richmond, Va. Hand-car. No. 995,284; June 13; Sp. p. 2554; Gaz. vol. 167; p. 442.
Pauling, Harry, Gelsenkirchen, Germany. Electric furnace for treating gases. No. 999,587; Aug. 1; Sp. p. 778; Gaz. vol. 169; p. 135.
Pauling, Harry, Gelsenkirchen, Germany. Liquid-distributing sprinkler. No. 1,002,748; Sept. 5; Sp. p. 1268; Gaz. vol. 170; p. 190.
Pauling, Harry, assignor to Salpetersäure Industrie-Gesellschaft, G. m. b. H., Gelsenkirchen, Germany. Manufacturing nitrites and nitrates. No. 991,356; May 2; Sp. p. 1132; Gaz. vol. 166; p. 189.
Pauling, Harry, assignor to Salpetersäure Industrie-Gesellschaft, Gesellschaft mit beschränkter Haftung, Gelsenkirchen, Germany. Process of producing nitric oxid from mixtures of nitrogen and oxygen and apparatus therefor. No. 991,357; May 2; Sp. p. 1134; Gaz. vol. 166; p. 190.
Pauling, Harry, assignor to Salpetersäure-Industrie-Gesellschaft, G. m. b. H., Gelsenkirchen, Germany. Dehydrating nitric-acid and other vapors. No. 993,868; May 30; Sp. p. 6521; Gaz. vol. 166; p. 1175.
Pauling, Harry, assignor to Salpetersäure-Industrie-Gesellschaft G. m. b. H., Gelsenkirchen, Germany. Valve-gear for apparatus for raising liquids. No. 998,388; July 18; Sp. p. 3914; Gaz. vol. 168; p. 693.
Pauling, Harry, assignor to Salpetersäure Industrie-Gesellschaft, Ges. m. b. H., Gelsenkirchen, Germany. Electric furnace. No. 999,586; Aug. 1; Sp. p. 775; Gaz. vol. 169; p. 135.
Paull, Archibald W., assignor to Wheeling Stamping Company, Wheeling, W. Va. Lantern. No. 1,000,341; Aug. 8; Sp. p. 2380; Gaz. vol. 169; p. 420.
Paull, Archibald W., assignor to Wheeling Stamping Company, Wheeling, W. Va. Lantern. No. 1,000,342; Aug. 8; Sp. p. 2381; Gaz. vol. 169; p. 420.
Paull, John A., Ipswich, assignor of one-half to D. Hepworth, Marine Villa, England. Carbureter. No. 980,668; Jan. 3; Sp. p. 1074; Gaz. vol. 162; p. 170.
Paulsen, Paul C., and P. Sanderson, Palermo, N. D. Detachable-tooth fork. No. 992,046; May 9; Sp. p. 2563; Gaz. vol. 166; p. 456.
Paulsmeier, Albert C., Alameda, assignor to Byron Jackson Iron Works, Inc., San Francisco, Cal. End-thrust counterbalance for centrifugal pumps. No. 1,009,928; Nov. 28; Sp. p. 5044; Gaz. vol. 172; p. 910.
Paulson, Albert O., Los Angeles, Cal. Airship. No. 1,003,062; Sept. 12; Sp. p. 1933; Gaz. vol. 170; p. 334.
Paulson, Anders, Breda, Netherlands. Match-making machine. No. 992,586; May 16; Sp. p. 3779; Gaz. vol. 166; p. 675.

Alphabetical list of patentees—Continued.

Paulson, Gustaf W., Belmont, and R. Paulson, Boston, Mass., assignors to Henry F. Miller & Sons Piano Company. Music-sheet winding and rewinding mechanism. No. 1,000,549; Aug. 15; Sp. p. 2867; Gaz. vol. 169; p. 526.
Paulson, Hans, Orting, Wash. Manure-conveyer. No. 988,946; Apr. 4; Sp. p. 1371; Gaz. vol. 165; p. 220.
Paulson, Rudolf. (See Paulson, Gustaf W. and R.)
Paulus, Charles F. (See Lent, Alvah F., assignor.)
Paulus, Max H., assignor to J. C. Eichman Mfg. Co., Baltimore, Md. Water-closet seat. No. 1,008,055; Nov. 7; Sp. p. 879; Gaz. vol. 172; p. 141.
Pauly, Albert A., Youngstown, Ohio. Apparatus for curing cementitious material. No. 1,009,557; Nov. 21; Sp. p. 4309; Gaz. vol. 172; p. 742.
Pauly, Henry J. (See Wagniere, August, assignor.)
Pavelec, Frank G., St. Louis, Mo. Awl attachment for shoe-cutting tools. No. 991,638; May 9; Sp. p. 1745; Gaz. vol. 166; p. 320.
Paveletz, Mathias, Canby, Oreg. Clevis. No. 994,783; June 13; Sp. p. 1501; Gaz. vol. 167; p. 276.
Pavella, Martin, South Lorain, Ohio. Smoke-cleaning device. No. 1,010,068; Nov. 28; Sp. p. 5355; Gaz. vol. 172; p. 960.
Pavia, Giuseppe, Allentown, Pa. Attachment for shuttles. No. 1,006,400; Oct. 17; Sp. p. 4043; Gaz. vol. 171; p. 704.
Pavlik, George P. (See Marshall and Pavlik.)
Pawel, Franz, Hanover, Germany. Tramway-switch. No. 1,012,001; Dec. 19; Sp. p. 3612; Gaz. vol. 173; p. 630.
Pawling, Francis W., Loogootee, Ind., assignor, by mesne assignments, to United Bottle Machinery Co., New York, N. Y. Packing glass in molds. No. 998,921; July 25; Sp. p. 5085; Gaz. vol. 168; p. 912.
Pawling and Harnischfeger Company. (See Weickel and Morse, assignors.)
Pawsat, Ewald F. and H., Sheboygan, Wis. Deflating-tool. No. 984,239; Feb. 14; Sp. p. 2149; Gaz. vol. 163; p. 365.
Pawsat, Hermann. (See Pawsat, Ewald F. and H.)
Pay, Charles, Providence, R. I. Lifting device for dumping-wagons. No. 1,000,622; Aug. 15; Sp. p. 3049; Gaz. vol. 169; p. 554.
Payet, Jérôme, Paterson, N. J. Winding-reel. No. 1,006,784; Oct. 24; Sp. p. 4892; Gaz. vol. 171; p. 869.
Payne, Albert E. (See Watkinson and Payne.)
Payne, Arthur, Whitley Bay, England. Preparation of surfaces suitable for photo-engraving or photo-etching. No. 992,898; May 23; Sp. p. 4434; Gaz. vol. 166; p. 814.
Payne, Clarence Q., New York, N. Y. Separating ores. No. 994,870; June 13; Sp. p. 1707; Gaz. vol. 167; p. 305.
Payne, Clarence Q., New York, N. Y. Magnetically separating ores. No. 994,871; June 13; Sp. p. 1711; Gaz. vol. 167; p. 305.
Payne, Clarence Q., New York, N. Y. Electrostatic separator. No. 997,322; July 11; Sp. p. 1533; Gaz. vol. 168; p. 279.
Payne, Darius W., Minneapolis, Minn. Combined churn and butter-worker. No. 991,639; May 9; Sp. p. 1746; Gaz. vol. 166; p. 320.
Payne, Ernest E. M., assignor of one-half to W. H. Staynes, Leicester, England. Purification of water. No. 1,002,603; Sept. 5; Sp. p. 950; Gaz. vol. 170; p. 141.
Payne, Ernest L., G. F. Taylor, and P. A. Peterson, Cedar Rapids, Iowa. Tablet-forming press. No. 1,012,002; Dec. 19; Sp. p. 3614; Gaz. vol. 173; p. 630.
Payne, Frederick R., Marinette, Wis. Invalid's bed. No. 1,001,437; Aug. 22; Sp. p. 4806; Gaz. vol. 169; p. 866.
Payne, Halbert E., New York, N. Y., and S. G. Wray, Grand Junction, Colo., assignors to American Typewriter Company. Ribbon guide and pointer. No. 1,011,366; Dec. 12; Sp. p. 2186; Gaz. vol. 173; p. 372.
Payne, Jesse M., Phoenix, Ala. Dyeing-machine. No. 996,514; June 27; Sp. p. 5302; Gaz. vol. 167; p. 930.
Payne, Joseph, Belmont, Mass. Protector for hypodermic needles. No. 991,015; May 2; Sp. p. 395; Gaz. vol. 166; p. 67.
Payne, Joseph, Melrose, Mass. Syringe. No. 1,012,700; Dec. 26; Sp. p. 5103; Gaz. vol. 173; p. 915.
Payne, Joseph, and J. E. Knapp, Belmont, Mass.; said Knapp assignor to said Payne. Power-syringe. No. 996,128; June 27; Sp. p. 4420; Gaz. vol. 167; p. 800.
Payne, Thomas F., Pittsburg, Pa. Sink structure. No. 989,405; Apr. 11; Sp. p. 2359; Gaz. vol. 165; p. 398.
Payne, Thomas F., Pittsburg, Pa. Shower-bath construction. No. 999,858; Aug. 8; Sp. p. 1322; Gaz. vol. 169; p. 255.
Paysen, Andrew A., St. Louis, Mo. Fish-hook. No. 984,963; Feb. 21; Sp. p. 3667; Gaz. vol. 163; p. 647.
Payson Manufacturing Company. (See O'Rourke, William F., assignor.)
Payton, Daniel, St. Louis, Mo. Tobacco-pipe. No. 988,023; Mar. 28; Sp. p. 4851; Gaz. vol. 164; p. 863.
Payzant, Octave, New York, N. Y. Rail chair and brace. No. 999,588; Aug. 1; Sp. p. 779; Gaz. vol. 169; p. 135.
Peabody, Charles M. (See Winter and Peabody.)
Peabody, Ernest H., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Atomizer or spraying device. No. 1,007,793; Nov. 7; Sp. p. 331; Gaz. vol. 172; p. 51.
Peabody, Ernest H., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Atomizer or spraying device. No. 1,007,794; Nov. 7; Sp. p. 333; Gaz. vol. 172; p. 52.
Peabody, Ernest H., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Atomizer or spraying device. No. 1,007,795; Nov. 7; Sp. p. 335; Gaz. vol. 172; p. 52.
Peacock, Edward L. (See Cox and Grange, assignors.)
Peacock, Edward L., Bridgeport, Conn. Submarine or submergible boat. No. 1,003,063; Sept. 12; Sp. p. 1935; Gaz. vol. 170; p. 335.
Peacock, Gordon M. (See Griffin, James J., assignor.)
Peacock, Samuel, Chicago, Ill. Rendering commercial salts non-deliquescent. No. 1,009,560; Nov. 21; Sp. p. 4313; Gaz. vol. 172; p. 743.
Peacock, Samuel, Chicago, Ill., assignor to American Cyanamid Company, New York, N. Y. Making calcium ferrite and phosphorus pentoxid. No. 988,137; Mar. 28; Sp. p. 5077; Gaz. vol. 164; p. 900.
Peacock, Samuel, Chicago, Ill., assignor to American Cyanamid Company, New York, N. Y. Making primary ammonium phosphate. No. 988,734; Apr. 4; Sp. p. 963; Gaz. vol. 165; p. 153.
Peacock, Samuel, Chicago, Ill., assignor to American Cyanamid Company, New York, N. Y. Fertilizer and making same. No. 988,894; Apr. 4; Sp. p. 1266; Gaz. vol. 165; p. 203.
Peacock, Samuel, Chicago, Ill., assignor to American Cyanamid Company, New York, N. Y. Making phosphorus pentoxid and titanium compounds. No. 995,897; June 20; Sp. p. 3947; Gaz. vol. 167; p. 684.
Peacock, Samuel, Chicago, Ill., assignor to American Cyanamid Company, New York, N. Y. Making diammonium phosphate. No. 995,898; June 20; Sp. p. 3948; Gaz. vol. 167; p. 684.
Peacock, Samuel, Chicago, Ill., assignor to American Cyanamid Company, New York, N. Y. Making pentoxid of phosphorus and calcium silicate. No. 997,086; July 4; Sp. p. 1042; Gaz. vol. 168; p. 168.
Peacock, Samuel, Chicago, Ill., assignor to American Cyanamid Company, New York, N. Y. Making calcium aluminate and other products. No. 1,000,290; Aug. 8; Sp. p. 2278; Gaz. vol. 169; p. 403.
Peacock, Samuel, Chicago, Ill., assignor to The Southern Electro-Chemical Company, New York, N. Y. Making zinc sulfo-amid. No. 1,009,558; Nov. 21; Sp. p. 4310; Gaz. vol. 172; p. 742.
Peacock, Samuel, Chicago, Ill., assignor to The Southern Electro-Chemical Company, New York, N. Y. Furnace for treating sulfids, phosphids, &c., in atmospheres of various gases. No. 1,009,559; Nov. 21; Sp. p. 4311; Gaz. vol. 172; p. 742.
Peak, William H., Anna, Ill. Card-holder. No. 992,047; May 9; Sp. p. 2564; Gaz. vol. 166; p. 456.
Pealing, John A. L., Seacombe, England. Portable drill. No. 983,083; Jan. 31; Sp. p. 6387; Gaz. vol. 162; p. 1110.
Pearce, Alfred E. (See Wallis and Pearce.)
Pearce, Charles O., Cheneyville, La. Railway-tie. No. 982,525; Jan. 24; Sp. p. 5194; Gaz. vol. 162; p. 895.
Pearce, George T., Sterling, Kans. Grain separator and cleaner. No. 985,696; Feb. 28; Sp. p. 5306; Gaz. vol. 163; p. 933.
Pearce, Herbert, and J. E. Billington, Broadheath, assignors to Linotype and Machinery Limited, London, England. Quadding apparatus of typographical composing-machines. No. 990,289; Apr. 25; Sp. p. 4287; Gaz. vol. 165; p. 765.
Pearce, Herbert, and T. R. G. Parker, Broadheath, assignors to Linotype and Machinery Limited, London, England. Sheet-delivery mechanism of printing and other machines. No. 1,009,091; Nov. 21; Sp. p. 3263; Gaz. vol. 172; p. 577.
Pearce, Herbert, J. E. Billington, C. Holliwell, and J. R. Burgess, Broadheath, assignors to Linotype and Machinery Limited, London, England. Typographical composing-machine. No. 1,008,056; Nov. 7; Sp. p. 881; Gaz. vol. 172; p. 142.
Pearce, James F., Greensboro, N. C. Track-sander. No. 1,005,462; Oct. 10; Sp. p. 1941; Gaz. vol. 171; p. 343.
Pearce, John H., Helena, Mont. Electric motor. No. 995,632; June 20; Sp. p. 3363; Gaz. vol. 167; p. 593.
Pearce, Walter H., Summit, N. J. Battery-terminal. No. 1,012,096; Dec. 19; Sp. p. 3833; Gaz. vol. 173; p. 663.
Pearce, William H., Chicago, Ill. Heat-distributing system. No. 997,002; July 4; Sp. p. 869; Gaz. vol. 168; p. 139.
Pearce, William H., Chicago, Ill. Heat-distributing system. No. 1,008,432; Nov. 14; Sp. p. 1807; Gaz. vol. 172; p. 314.
Pearce, William H. S., Newton, Mass. Optical toy. No. 991,534; May 9; Sp. p. 1515; Gaz. vol. 166; p. 282.
Pearl, Carlos E., Beachmont, Mass. Horseshoe-pad. No. 997,323; July 11; Sp. p. 1535; Gaz. vol. 168; p. 279.
Pearlman, Lillie. (See Briggs, Irving L., assignor.)
Pearman, Horace L., and H. W. Stibgen, Wilkes-Barre, Pa. Ice-cutting machine. No. 989,634; Apr. 18; Sp. p. 2882; Gaz. vol. 165; p. 509.
Pearson, Andrew. (See Rickertt, John E., assignor.)

Alphabetical list of patentees—Continued.

Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Sweep-rake. No. 989,036; Apr. 11; Sp. p. 1564; Gaz. vol. 165; p. 274.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Clutch mechanism. No. 989,037; Apr. 11; Sp. p. 1566; Gaz. vol. 165; p. 274.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Hay-rake. No. 992,384; May 16; Sp. p. 3364; Gaz. vol. 166; p. 605.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Combined hay rake and stacker. No. 993,546; May 30; Sp. p. 5833; Gaz. vol. 166; p. 1064.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Hay-rake. No. 1,000,438; Aug. 15; Sp. p. 2613; Gaz. vol. 169; p. 486.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Fore-carriage for hay-rakes. No. 1,005,066; Oct. 3; Sp. p. 1071; Gaz. vol. 171; p. 180.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Hoisting mechanism. No. 1,012,005; Dec. 19; Sp. p. 3626; Gaz. vol. 173; p. 632.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Tandem draft connection for implements. No. 1,012,220; Dec. 19; Sp. p. 4113; Gaz. vol. 173; p. 705.
Pearson, Charles H. (See Menns, Walter K., assignor.)
Pearson, Charles O., New York, N. Y. Electric and fluid-pressure controller for internal-combustion engines. No. 997,003; July 4; Sp. p. 872; Gaz. vol. 168; p. 140.
Pearson, Charles O., assignor to Otis Elevator Company, New York, N. Y. Direct-connected elevator. No. 985,697; Feb. 28; Sp. p. 5308; Gaz. vol. 163; p. 933.
Pearson, Charles O., assignor to Otis Elevator Company, New York, N. Y. Elevator. No. 985,698; Feb. 28; Sp. p. 5316; Gaz. vol. 163; p. 934.
Pearson, Charles O., assignor to Otis Elevator Company, New York, N. Y. Elevator. No. 990,493; Apr. 25; Sp. p. 4790; Gaz. vol. 165; p. 837.
Pearson, Charles O., assignor to Otis Elevator Company, New York, N. Y. Elevator. No. 1,012,003; Dec. 19; Sp. p. 3616; Gaz. vol. 173; p. 631.
Pearson, Charles O., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Hydraulic-elevator plant. No. 1,012,004; Dec. 19; Sp. p. 3621; Gaz. vol. 173; p. 631.
Pearson, Charles O., New York, and A. Sundh, Yonkers, assignors to Otis Elevator Company, New York, N. Y. Electrically-controlled elevator. No. 985,699; Feb. 28; Sp. p. 5326; Gaz. vol. 163; p. 934.
Pearson, Eliphalet L., Bedford, assignor of one-half to O. McLahlan, Oolitic, one-eighth to G. P. Parks, one-eighth to E. S. Ferguson, one-eighth to S. Chrisler, and one-eighth to J. T. Freeland, Bedford, Ind. Cash-register. No. 987,908; Mar. 28; Sp. p. 4567; Gaz. vol. 164; p. 823.
Pearson, Frank, Mount Rainier, Md. Level-indicator for boilers. No. 986,210; Mar. 7; Sp. p. 942; Gaz. vol. 164; p. 153.
Pearson, Gardner W., Lowell, Mass. Detachable awning-blind. No. 992,447; May 16; Sp. p. 3476; Gaz. vol. 166; p. 629.
Pearson, Gustaf W., Fresno, Cal. Baling-press. No. 984,488; Feb. 14; Sp. p. 2647; Gaz. vol. 163; p. 447.
Pearson, Hugh W., New York, N. Y. Exhibiting and advertising device. No. 989,406; Apr. 11; Sp. p. 2360; Gaz. vol. 165; p. 399.
Pearson, John, Chicago, Ill. Dump-car construction or the like. No. 986,309; Mar. 7; Sp. p. 1150; Gaz. vol. 164; p. 185.
Pearson, John, Chicago, Ill. Car-roof. No. 988,380; Apr. 4; Sp. p. 199; Gaz. vol. 165; p. 32.
Pearson, John, Chicago, Ill. Car-roof. (Reissue.) No. 13,285; Aug. 22; Sp. p. 5118; Gaz. vol. 169; p. 920.
Pearson, John, assignor to The Pullman Company, Chicago, Ill. Car-bolster. No. 989,998; Apr. 18; Sp. p. 3667; Gaz. vol. 165; p. 635.
Pearson, John, assignor to The Pullman Company, Chicago, Ill. Car-framing. No. 1,010,684; Dec. 5; Sp. p. 622; Gaz. vol. 173; p. 99.
Pearson, John, assignor to Grip Nut Company, Chicago, Ill. Self-locking nut. No. 991,016; May 2; Sp. p. 396; Gaz. vol. 166; p. 68.
Pearson, John, Somerset, Wis., assignor of one-third to J. F. Williamson and one-sixth to F. D. Merchant, Minneapolis, Minn. Power-factor controller. No. 983,835; Feb. 7; Sp. p. 1246; Gaz. vol. 163; p. 198.
Pearson, Lemuel O., Fort Worth, Tex. Liquid-fuel burner. No. 989,038; Apr. 11; Sp. p. 1568; Gaz. vol. 165; p. 275.
Pearson, Marshall H., Leicester, England, assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 1,001,980; Aug. 29; Sp. p. 5959; Gaz. vol. 169; p. 1080.
Pearson, Marshall H., and A. E. Jerram, Leicester, England, assignors to United Shoe Machinery Company, Paterson, N. J. Sewing-machine. No. 1,007,601; Oct. 31; Sp. p. 6704; Gaz. vol. 171; p. 1207.
Pearson, Robert B., Duluth, Minn. Interlocking metal sheet-piling. No. 999,334; Aug. 1; Sp. p. 269; Gaz. vol. 169; p. 50.
Peart, Joseph, Vernon, assignor of one-half to C. H. Skidmore, Logan, Utah. Rake. No. 1,010,310; Nov. 28; Sp. p. 5836; Gaz. vol. 172; p. 1039.
Peary, Andrew. (See Keaton and Peary.)
Pease, Albert J., Phillips, Me. Snow-shoe. No. 1,004,900; Oct. 3; Sp. p. 778; Gaz. vol. 171; p. 124.
Pease, Charles F., assignor to The C. F. Pease Company, Chicago, Ill. Photographic-print cutter. No. 985,446; Feb. 28; Sp. p. 4757; Gaz. vol. 163; p. 846.
Pease, Charles F., assignor to The C. F. Pease Company, Chicago, Ill. Scrubbing and brushing machine. No. 994,189; June 6; Sp. p. 184; Gaz. vol. 167; p. 32.
Pease, Charles F., assignor to The C. F. Pease Company, Chicago, Ill. Blue-print machine. No. 998,259; July 18; Sp. p. 3595; Gaz. vol. 168; p. 645.
Pease, Charles F., assignor to The C. F. Pease Company, Chicago, Ill. Blue-print machine. No. 1,004,069; Sept. 26; Sp. p. 4152; Gaz. vol. 170; p. 746.
Pease, Durell O., Hampden, Mass. Twister-head for spinning-machines. No. 983,641; Feb. 7; Sp. p. 822; Gaz. vol. 163; p. 131.
Pease, Durell O., Hampden, Mass. Spinning-machine. No. 987,317; Mar. 21; Sp. p. 3301; Gaz. vol. 164; p. 593.
Pease, Edward L., Darlington, England. Flexible protector for electric cables and like purposes. No. 996,515; June 27; Sp. p. 5303; Gaz. vol. 167; p. 930.
Pease, Franklin B., Rochester, N. Y. Rod for strengthening timbers. No. 1,002,927; Sept. 12; Sp. p. 1685; Gaz. vol. 170; p. 291.
Pease, Franklin B., assignor to Boutell Manufacturing Company, Rochester, N. Y. Paring-machine. No. 984,843; Feb. 21; Sp. p. 3443; Gaz. vol. 163; p. 608.
Pease, W. S. (See Walker and Sprague, assignors.)
Pease, William A. (See Sharp and Pease.)
Pease, William H., *et al.* (See Marcy, Herbert E., assignor.)
Peaslee, Lawrence G., Kansas City, Mo. Ironing-board. No. 1,009,438; Nov. 21; Sp. p. 4074; Gaz. vol. 172; p. 702.
Peasley, Albert L., Indianapolis, Ind. Track-laying machine. No. 993,869; May 30; Sp. p. 6524; Gaz. vol. 166; p. 1176.
Peat, Harry L., assignor to Frank Adam Electric Company, St. Louis, Mo. Knife-switch. No. 1,010,069; Nov. 28; Sp. p. 5357; Gaz. vol. 172; p. 960.
Peat Industries. (See Lincoln, Leo B., assignor.)
Pecci, Pio N., assignor of one-sixth to P. Dow, one-sixth to H. Porzig, one-sixth to C. Grund, and one-sixth to R. Meyer, Paterson, N. J. Automatically-controlled mixing-machine or the like. No. 1,006,003; Oct. 17; Sp. p. 3141; Gaz. vol. 171; p. 564.
Pecht, John B., New York, N. Y. Barrel-cleaning machine. No. 1,003,786; Sept. 19; Sp. p. 3488; Gaz. vol. 170; p. 621.
Pechy, Andrew, New York, N. Y. Safety elevator device. No. 1,009,561; Nov. 21; Sp. p. 4313; Gaz. vol. 172; p. 743.
Pechy, Andrew, New York, N. Y. Feed-bag. No. 1,010,171; Nov. 28; Sp. p. 5547; Gaz. vol. 172; p. 993.
Peck, Cassius C., Rochester, N. Y. Hot-water heating system. No. 996,129; June 27; Sp. p. 4423; Gaz. vol. 167; p. 800.
Peck, Cassius C., Rochester, N. Y. Treating water in manufacturing ice. No. 1,001,885; Aug. 29; Sp. p. 5753; Gaz. vol. 169; p. 1049.
Peck, Clarance A., *et al.* (See McKenzie, Thomas J., assignor.)
Peck, Eugene B., *et al.* (See Harrington, Frank S., assignor.)
Peck, Eugene C., assignor to The Cleveland Twist Drill Company, Cleveland, Ohio. Chuck. No. 1,008,057; Nov. 7; Sp. p. 885; Gaz. vol. 172; p. 142.
Peck, Eugene W. (See Dunham and Dutcher, assignors.)
Peck, Eugene W. (See Dunham and Peck.)
Peck, Frank C., Wayne, assignor to Electric Service Supplies Company, Philadelphia, Pa. Clamping and supporting mechanism. No. 998,922; July 25; Sp. p. 5086; Gaz. vol. 168; p. 913.
Peck, Frederick S. (See Fisher, Emanuel, Jr., assignor.)
Peck, Frederick W., Detroit, Mich. Explosive-engine. No. 999,518; Aug. 1; Sp. p. 641; Gaz. vol. 169; p. 110.
Peck, Henry W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control of synchronous machines. No. 995,171; June 13; Sp. p. 2345; Gaz. vol. 167; p. 406.
Peck, Horace S., *et al.* (See Ackley, William J., assignor.)
Peck, Ira F., Warwick, R. I., assignor to The Sanford Manufacturing Company, Boston, Mass. Machine for making and setting heel and sole protectors for boots and shoes. No. 994,334; June 6; Sp. p. 474; Gaz. vol. 167; p. 82.
Peck, Ira F., Providence, R. I., assignor to G. O. Draper, New York, N. Y. Apparatus for treating arsenical vapors. No. 996,516; June 27; Sp. p. 5305; Gaz. vol. 167; p. 930.
Peck, John S. (See North and Peck.)
Peck, John S., Manchester, England, assignor to Westinghouse Electric and Manufacturing Company. Alternating-current-transformer system. No. 1,007,482; Oct. 31; Sp. p. 6424; Gaz. vol. 171; p. 1167.

Alphabetical list of patentees—Continued.

Peck, Lester O., *et al.* (See Harrington, Frank S., assignor.)
Peck, Luke R. (See Richmond, Holmes, and Peck.)
Peck, Mina L. M., Hamilton, N. Y. Plate-lifter. No. 986,854; Mar. 14; Sp. p. 2327; Gaz. vol. 164; p. 403.
Peck, Mina L. M., Hamilton, N. Y. Cork-puller. No. 986,855; Mar. 14; Sp. p. 2328; Gaz. vol. 164; p. 404.
Peck, Philip C. (See Hawes, Herbert E., assignor.)
Peck, Philip F., Tacoma, Wash. Centrifugal ore-separator. No. 981,679; Jan. 17; Sp. p. 3354; Gaz. vol. 162; p. 570.
Peck, Philip F., Tacoma, Wash. Centrifugal ore-separator. No. 981,680; Jan. 17; Sp. p. 3360; Gaz. vol. 162; p. 570.
Peck, Philip F., Tacoma, Wash. Centrifugal ore-separating apparatus. No. 981,681; Jan. 17; Sp. p. 3366; Gaz. vol. 162; p. 571.
Peck, Philip F., Tacoma, Wash. Centrifugal ore-separator. No. 981,682; Jan. 17; Sp. p. 3379; Gaz. vol. 162; p. 571.
Peck, Philip F., Chicago, Ill. Centrifugal ore-separator. No. 1,011,077; Dec. 5; Sp. p. 1474; Gaz. vol. 173; p. 234.
Peck, Philip F., Chicago, Ill. Centrifugal ore-separator. No. 1,011,078; Dec. 5; Sp. p. 1479; Gaz. vol. 173; p. 235.
Peck, Philip F., Chicago, Ill. Centrifugal ore-separator. No. 1,012,097; Dec. 19; Sp. p. 3836; Gaz. vol. 173; p. 664.
Peck, Robert N. (See Bodmer and Peck.)
Peck, Stephen F., Auburn, R. I., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Protector for heels and soles of boots and shoes. No. 1,006,978; Oct. 24; Sp. p. 5333; Gaz. vol. 171; p. 936.
Peck, Stow and Wilcox Company, The. (See Altwein, Oscar R., assignor.)
Peck, Stow & Wilcox Company. (See Mathes, Philip, assignor.)
Peck, Thomas G., *et al.* (See McKenzie, Thomas J., assignor.)
Peck, William A., Jersey City, N. J. Pliers. No. 988,656; Apr. 4; Sp. p. 787; Gaz. vol. 165; p. 126.
Peck, William A., Jersey City, N. J. Calipers and dividers. No. 1,001,219; Aug. 22; Sp. p. 4348; Gaz. vol. 169; p. 791.
Peck, William T., and J. E. Cleland, Lynchburg, Va. Steam-heating apparatus. No. 990,769; Apr. 25; Sp. p. 5398; Gaz. vol. 165; p. 931.
Peckham, James M., Fall River, Mass. Picker-fastener. No. 996,670; July 4; Sp. p. 150; Gaz. vol. 168; p. 26.
Peckham, Luther A., Edgewood, R. I. Shock-absorbing device. No. 986,082; Mar. 7; Sp. p. 697; Gaz. vol. 164; p. 111.
Peckham, Luther A., Edgewood, R. I. Shock-absorbing device. No. 989,407; Apr. 11; Sp. p. 2362; Gaz. vol. 165; p. 399.
Peckham, Luther A., Edgewood, R. I. Shock-absorber. No. 989,408; Apr. 11; Sp. p. 2365; Gaz. vol. 165; p. 399.
Peckham, Luther A., Edgewood, R. I. Shock-absorbing device. No. 1,009,337; Nov. 21; Sp. p. 3820; Gaz. vol. 172; p. 665.
Peckover, James, Philadelphia, Pa. Apparatus for sawing and working granite, marble, stone, and analogous substances. No. 995,172; June 13; Sp. p. 2349; Gaz. vol. 167; p. 406.
Peddicord, Lloyd M., Cincinnati, Ohio. Chain-clasp. No. 982,019; Jan. 17; Sp. p. 4134; Gaz. vol. 162; p. 690.
Peddie, John T., Westminster, London, England. Sights for small-arms and ordnance. No. 1,012,426; Dec. 19; Sp. p. 4524; Gaz. vol. 173; p. 774.
Peddle, John T., Westminster, London, England. Sights Sons & Maxim Limited, London, England. Sighting device. No. 1,012,427; Dec. 19; Sp. p. 4525; Gaz. vol. 173; p. 774.
Pedersen, Casper. (See Olsen, Pedersen, and Andersen.)
Pedersen, Dines, Dike, Iowa. Hay-loader. No. 1,002,438; Sept. 5; Sp. p. 585; Gaz. vol. 170; p. 84.
Pedersën, Johannes T., Woodside, N. Y. Lubricating apparatus. No. 1,009,562; Nov. 21; Sp. p. 4315; Gaz. vol. 172; p. 743.
Pedersen, John D., Jackson, Wyo. Cartridge-stop for magazine-firearms. (Reissue.) No. 13,321; Nov. 21; Sp. p. 4613; Gaz. vol. 172; p. 798.
Pedersen, Mikael, Dursley, England. Wheel-cutting machine. No. 984,777; Feb. 21; Sp. p. 3324; Gaz. vol. 163; p. 586.
Pedersen, Niels, assignor to Cracraft-Leich Electric Company, Genoa, Ill. Portable telephone. No. 999,859; Aug. 8; Sp. p. 1324; Gaz. vol. 169; p. 255.
Pedersen, Peder O., Copenhagen, Denmark. Transmitting apparatus for wireless telegraphy. No. 986,405; Mar. 7; Sp. p. 1365; Gaz. vol. 164; p. 220.
Pedersen, Rasmus, Parkersburg, Iowa. Grapple. No. 992,800; May 23; Sp. p. 4210; Gaz. vol. 166; p. 777.
Pedersen, Rasmus, Parkersburg, Iowa. Wagon-loading device. No. 992,801; May 23; Sp. p. 4212; Gaz. vol. 166; p. 778.
Pedersen, Valdemar, Turtle Creek, Pa. Trolley. No. 991,231; May 2; Sp. p. 858; Gaz. vol. 166; p. 146.
Pederson, Ole E., Montevideo, Minn. Mail-box. No. 1,010,519; Dec. 5; Sp. p. 270; Gaz. vol. 173; p. 42.
Pedery, Joe, Trenton, N. J. Pipe-wrench. No. 995,984; June 20; Sp. p. 4110; Gaz. vol. 167; p. 715.
Pedlar, Sidney A., Minneapolis, Minn. Journal-box lifter for cars. No. 989,039; Apr. 11; Sp. p. 1569; Gaz. vol. 165; p. 275.
Peebles, August J., Molson, Wash. Freight vessel. No. 995,557; June 20; Sp. p. 3183; Gaz. vol. 167; p. 566.
Peek, Frank W., Jr., Schenectady, N. Y., assignor to General Electric Company. Electrolyte for aluminum cells. No. 1,008,860; Nov. 14; Sp. p. 2755; Gaz. vol. 172; p. 464.
Peek, James A., Springfield, Mo., assignor of one-half to T. A. Stone, North Manchester, Ind. Hub-attaching device. No. 1,009,854; Nov. 28; Sp. p. 4908; Gaz. vol. 172; p. 887.
Peeler, William L., Greenville, Tex. Fountain-brush. No. 1,000,937; Aug. 15; Sp. p. 3703; Gaz. vol. 169; p. 663.
Peelle, Caleb M. (See Rashkin, Joseph, assignor.)
Peelle, Caleb M., Brooklyn, assignor to The Peelle Co., New York, N. Y. Latch for elevator-doors. No. 1,007,043; Oct. 24; Sp. p. 5462; Gaz. vol. 171; p. 957.
Peelle Co., The. (See Peelle, Caleb M., assignor.)
Peelle, Henry G., Holyoke, Mass. Automatic actuator for elevator-doors. No. 987,011; Mar. 14; Sp. p. 2633; Gaz. vol. 164; p. 455.
Peelle, Willis J., Summitville, Ind. Vacuum jar-closure. No. 982,860; Jan. 31; Sp. p. 5901; Gaz. vol. 162; p. 1036.
Peeples, Sarah E., Washington, D. C. Insulated pipe joint or coupling. No. 997,087; July 4; Sp. p. 1044; Gaz. vol. 168; p. 168.
Peer, Kaufman. (See Young, Henry P., assignor.)
Peercy, Andrew, and E. M. Bretz, Kiefer, Okla. Pumping-jack. No. 995,032; June 13; Sp. p. 2056; Gaz. vol. 167; p. 360.
Peerless Jewelry Company. (See Allen, Harry L., assignor.)
Peerless Machinery Company, The. (See Glass, Perley R., assignor.)
Peerless Water Softener Company, The. (See Stevenson, Robert E., assignor.)
Peet, Thomas W., assignor of one-half to A. F. Johnson, New Britain, Conn. Tire. No. 984,597; Feb. 21; Sp. p. 2924; Gaz. vol. 163; p. 520.
Peetz, Benjamin F., N. W. Thompson, and H. S. McDanel, Moro, assignors to Gnu Trustee Company, Portland, Oreg. Paper-holder. No. 980,669; Jan. 3; Sp. p. 1077; Gaz. vol. 162; p. 171.
Peetz, Benjamin F., H. S. McDanel, and N. W. Thompson, Moro, assignors to Gnu Trustee Company, Portland, Oreg. Copy-holder. No. 986,211; Mar. 7; Sp. p. 943; Gaz. vol. 164; p. 153.
Peetz, Benjamin F., H. S. McDanel, Moro, and N. W. Thompson, assignors to Gnu Trustee Company, Portland, Oreg. Copy-holder. No. 999,181; July 25; Sp. p. 5618; Gaz. vol. 168; p. 999.
Peffer, William A., Louisville, Ky. Trolley-pole attachment. No. 994,030; May 30; Sp. p. 6847; Gaz. vol. 166; p. 1229.
Pegg, Gerald. (See Gibson and Pegg.)
Pegler, Bernard C. H., Kingston-upon-Thames, England. Device for opening and closing gas-taps from a distance. No. 982,861; Jan. 31; Sp. p. 5903; Gaz. vol. 162; p. 1036.
Pein, Edward J. von, assignor to The National Cash Register Company, Dayton, Ohio. Refunding cash-register. No. 987,196; Mar. 21; Sp. p. 3042; Gaz. vol. 164; p. 551.
Pein, Edward J. von, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 992,827; May 23; Sp. p. 4270; Gaz. vol. 166; p. 788.
Pein, Edward J. von, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 996,814; July 4; Sp. p. 435; Gaz. vol. 168; p. 73.
Pein, Edward J. von, assignor to The National Cash Register Company, Dayton, Ohio. Multiple cash-register. No. 1,008,397; Nov. 14; Sp. p. 1720; Gaz. vol. 172; p. 302.
Peirce, Charles L., Jr., assignor to Hubbard & Co., Pittsburgh, Pa. Insulator-bracket. No. 1,006,268; Oct. 17; Sp. p. 3750; Gaz. vol. 171; p. 659.
Peirce, Charles L., Jr., assignor to Hubbard & Co., Pittsburgh, Pa. Insulator-bracket. No. 1,007,138; Oct. 31; Sp. p. 5704; Gaz. vol. 171; p. 1046.
Peirce, John R., New York, N. Y. Perforating-machine. No. 998,631; July 25; Sp. p. 4423; Gaz. vol. 168; p. 809.
Peirce, Robert T., Newport News, Va. Automatic dumping-elevator. No. 1,007,483; Oct. 31; Sp. p. 6426; Gaz. vol. 171; p. 1167.
Peirce-Smith Converter Company. (See Peirce, William H., assignor.)
Peirce-Smith Converter Company. (See Smith, Elias A. C., assignor.)
Peirce, William H., Baltimore, Md., assignor to Peirce-Smith Converter Company. Metallurgic apparatus. No. 987,909; Mar. 28; Sp. p. 4570; Gaz. vol. 164; p. 823.
Pelegrin, John P., *et al.* (See Thomas, Wesley A., assignor.)
Pelican, Joseph, Addington, Okla. Thresher-concave. No. 993,193; May 23; Sp. p. 5061; Gaz. vol. 166; p. 913.
Pelk, Louis D., and W. Lehman, South Milwaukee, Wis. Milking-machine. No. 995,804; June 20; Sp. p. 3745; Gaz. vol. 167; p. 653.
Pell, Joseph C. (See Pell, Tom B. and J. C.)

Alphabetical list of patentees—Continued.

Pell, Tom B. and J. C., Lewisport, Ky. Overalls. No. 1,007,969; Nov. 7; Sp. p. 718; Gaz. vol. 172; p. 112.
Pella, August B., Jessie, N. D. Blast-regulator. No. 1,007,970; Nov. 7; Sp. p. 719; Gaz. vol. 172; p. 112.
Pellant, Adolph N., assignor to Montgomery-Washburn Co., Saugerties, N. Y. Feed-bag attachment. No. 988,381; Apr. 4; Sp. p. 201; Gaz. vol. 165; p. 33.
Pelletier, Charles O., assignor to N. B. Douglass, San Francisco, Cal. Wall-bed. No. 988,024; Mar. 28; Sp. p. 4852; Gaz. vol. 164; p. 863.
Pelletier, Louis F. (See Ciglia and Pelletier.)
Pelling, Frank J., Oswego, assignor of one-half to J. H. Burdick, Sandwich, Ill. Gas-engine-starting crank. No. 1,008,487; Nov. 14; Sp. p. 1955; Gaz. vol. 172; p. 334.
Pellissier, George E., New York, N. Y. Rail-joint. No. 997,697; July 11; Sp. p. 2287; Gaz. vol. 168; p. 405.
Pellow, Charles E. (See Miller, Samuel M. D., assignor.)
Peloubet, Alexander H., Newark, N. J. Sectional vehicle-tire. No. 991,744; May 9; Sp. p. 1971; Gaz. vol. 166; p. 354.
Pelouze Electric Heater Co. (See Madsen, Charles P., assignor.)
Pelton, Charles H., assignor to The Thomas Manufacturing Company, Springfield, Ohio. Hay-rake. No. 983,642; Feb. 7; Sp. p. 824; Gaz. vol. 163; p. 132.
Pelton, Clyde S., Akron, Ohio. Automobile-heater. No. No. 996,130; June 27; Sp. p. 4424; Gaz. vol. 167; p. 801.
Pelton, George M., assignor to The Filer & Stowell Company, Milwaukee, Wis. Edger. No. 981,467; Jan. 10; Sp. p. 2944; Gaz. vol. 162; p. 478.
Pelton Water Wheel Company, The. (See Henry, George J., Jr., assignor.)
Pelz, Martin, New York, N. Y. Tile-armor. No. 1,009,092; Nov. 21; Sp. p. 3267; Gaz. vol. 173; p. 578.
Pemberton, Edward L., New Haven, Conn. Tooth for excavating-buckets. No. 995,285; June 13; Sp. p. 2556; Gaz. vol. 167; p. 443.
Pemberton, Walter, New Moston, near Manchester, England. Apparatus for filtering and extracting suspended matter from boiler feed-water under pressure. No. 1,011,482; Dec. 12; Sp. p. 2435; Gaz. vol. 173; p. 415.
Pembroke, Charles J. (See Dalzell, Andrew H., assignor.)
Penberthy, Ernest, Painesdale, Mich. Mining-machine. No. 997,698; July 11; Sp. p. 2290; Gaz. vol. 168; p. 406.
Penberthy Injector Company. (See McCoy, Elijah, assignor.)
Penberthy Injector Company. (See O'Leary, Frank J., assignor.)
Pence, Charles, North Manchester, Ind. Rotary steam-engine. No. 995,173; June 13; Sp. p. 2351; Gaz. vol. 167; p. 407.
Pence, Henry, Jr., Eldorado, Ohio. Farm-tractor. No. 993,194; May 23; Sp. p. 5063; Gaz. vol. 166; p. 913.
Pender, James E. P., assignor to Gorham Manufacturing Company, Providence, R. I. Individual lemon or orange squeezer. No. 995,286; June 13; Sp. p. 2557; Gaz. vol. 167; p. 443.
Pendleton, Frank E., Montclair, N. J. Automatic integrator. No. 987,165; Mar. 21; Sp. p. 2969; Gaz. vol. 164; p. 539.
Pendray, Herbert J., Victoria, British Columbia, Canada. Rotatable fireplace. No. 984,598; Feb. 21; Sp. p. 2926; Gaz. vol. 163; p. 520.
Pendry, William A., Detroit, Mich. Apparatus for retarding the release of engine-brakes. No. 1,006,497; Oct. 24; Sp. p. 4276; Gaz. vol. 171; p. 768.
Pendry, William A., Detroit, Mich. Engineer's valve. No. 1,006,498; Oct. 24; Sp. p. 4281; Gaz. vol. 171; p. 769.
Pendry, William A., Detroit, Mich. Automatic air-brake. No. 1,006,499; Oct. 24; Sp. p. 4286; Gaz. vol. 171; p. 769.
Penez, Charles E., San Francisco, Cal. Burglar-alarm. No. 1,006,675; Oct. 24; Sp. p. 4668; Gaz. vol. 171; p. 832.
Penfield, George S., assignor to The Travelers Insurance Company, Hartford, Conn. Post-card insurance-policy. No. 1,000,623; Aug. 15; Sp. p. 3052; Gaz. vol. 169; p. 554.
Penfield, Raymond C., New York, N. Y. System and apparatus for hacking bricks. No. 985,203; Feb. 28; Sp. p. 4203; Gaz. vol. 163; p. 765.
Penfield, Raymond C., New York, N. Y. System and apparatus for hacking bricks. (Reissue.) No. 13,256; June 6; Sp. p. 1295; Gaz. vol. 167; p. 213.
Penfield, Raymond C., New York, N. Y. Machine for handling bricks. No. 999,519; Aug. 1; Sp. p. 643; Gaz. vol. 169; p. 111.
Penick, Florence V. (See Penick and Kirkland, assignors.)
Penick, William B., and H. T. Kirkland; said Penick assignor to F. V. Penick, Lynchburg, Va. Dispensing apparatus. No. 998,389; July 18; Sp. p. 3916; Gaz. vol. 168; p. 694.
Penington, George F. (See Pagett and Penington.)
Penko, Joseph, Chicago, Ill. Bedstead. No. 996,131; June 27; Sp. p. 4426; Gaz. vol. 167; p. 801.
Penn, Bertram H., London, England. Clutch. No. 1,007,139; Oct. 31; Sp. p. 5707; Gaz. vol. 171; p. 1047.
Penn, George R., Dallas, Tex. Brush. No. 1,003,942; Sept. 19; Sp. p. 3843; Gaz. vol. 170; p. 674.

Penn Metal Ceiling and Roofing Company, The. (See Sagendorph, George A., assignor.)
Penn, Percy D. (See Hyatt, William H., assignor.)
Penn Steel Casting and Machine Company. (See Bickley, Walter S., assignor.)
Pennell, Arthur, Kansas City, Mo. Apparatus for heating boiler feed-water. No. 1,011,483; Dec. 12; Sp. p. 2438; Gaz. vol. 173; p. 415.
Pennell, George. (See Zell, John W., assignor.)
Pennell, John, Bar Harbor, Me. Lawn-mower. No. 999,122; July 25; Sp. p. 5505; Gaz. vol. 168; p. 980.
Pennell, John C., Greenville, Ohio. Railway-tie and fastener. No. 1,008,672; Nov. 14; Sp. p. 2368; Gaz. vol. 172; p. 400.
Penney, Samuel G., Pittsburgh, Pa. Sanitary tobacco-pipe. No. 1,005,067; Oct. 3; Sp. p. 1072; Gaz. vol. 171; p. 180.
Pennie, John C., *et al.* (See Wilkinson, John A., assignor.)
Penniman, George A., assignor, by mesne assignments, to J. M. Parker Manufacturing Company, Boston, Mass. Bag-holder. No. 1,010,793; Dec. 5; Sp. p. 881; Gaz. vol. 173; p. 138.
Pennington, John K., assignor to W. A. Snyder, Los Angeles, Cal. Double-acting wall-bed. No. 1,006,123; Oct. 17; Sp. p. 3412; Gaz. vol. 171; p. 606.
Pennington, John R. (See Pennington, William D. and J. R.)
Pennington, Orbra C., Columbus, Nebr. Clothes-line support. No. 1,000,840; Aug. 15; Sp. p. 3501; Gaz. vol. 169; p. 630.
Pennington, William A., Scranton, N. D. Leveling device for threshing-machines. No. 999,123; July 25; Sp. p. 5507; Gaz. vol. 168; p. 980.
Pennington, William D. and J. R., Chicago, Ill., assignors, by mesne assignments, to Draper-Latham Magneto Company, New York, N. Y. Magneto-generator. No. 999,335; Aug. 1; Sp. p. 272; Gaz. vol. 169; p. 50.
Pennock, John D., E. C. Witherby, Solvay, W. H. Blauvelt, E. N. Trump, and C. G. Tufts, assignors to Semet-Solvay Company, Syracuse, N. Y. Process of and apparatus for purifying ammonia. No. 1,012,272; Dec. 19; Sp. p. 4215; Gaz. vol. 173; p. 723.
Pennock, John D., E. C. Witherby, Solvay, W. H. Blauvelt, E. N. Trump, and C. G. Tufts, assignors to Semet-Solvay Company, Syracuse, N. Y. Recovering ammonia from ammoniacal liquor and apparatus therefor. No. 1,012,273; Dec. 19; Sp. p. 4219; Gaz. vol. 173; p. 724.
Pennock, Walter I., Philadelphia, Pa. Captive balloon. No. 1,005,871; Oct. 17; Sp. p. 2853; Gaz. vol. 171; p. 518.
Pennsylvania Globe Gas Light Company. (See Slinack, Victor H., assignor.)
Pennsylvania Rubber Company. (See Du Puy, Harry W., assignor.)
Pennsylvania Steel Company, The. (See Henderson, William M., assignor.)
Penny, James P., and T. M. Le Blanc, Gardner, Mass. Journal-box. No. 988,138; Mar. 28; Sp. p. 5079; Gaz. vol. 164; p. 901.
Penny, Stancil L., Laurinburg, N. C. Plow-fender. No. 985,627; Feb. 28; Sp. p. 5147; Gaz. vol. 163; p. 909.
Penruddocke, Edmund L., assignor to American Automatic Railway Switch Company, Birmingham, Ala. Point-thrower. No. 998,632; July 25; Sp. p. 4427; Gaz. vol. 168; p. 810.
Peoples Oil & Cotton Company. (See Richmond, George E., assignor.)
Peoples Wagon Company. (See Townsend, James E., assignor.)
Peoples Trust Company, The, trustee. (See Roof, Robert M., assignor.)
Peplinski, Julius W., Erie, Pa. Thermostatic cut-off device for gas-burners. No. 989,188; Apr. 11; Sp. p. 1881; Gaz. vol. 165; p. 326.
Pepper, Frederick V., Los Angeles, Cal. Washing-machine. No. 992,048; May 9; Sp. p. 2565; Gaz. vol. 166; p. 456.
Pepper, James H., Wasco, Oreg. Hinged floating current-motor. No. 1,005,746; Oct. 10; Sp. p. 2572; Gaz. vol. 171; p. 442.
Pepper, James L., Kalispell, and A. V. Mikalson, Eureka, Mont. Wagon-box lifter or rack-jack. No. 1,000,841; Aug. 15; Sp. p. 3502; Gaz. vol. 169; p. 630.
Pepperell, William S., Warwick, R. I., assignor to Draper Company, Hopedale, Mass. Slasher. No. 985,543; Feb. 28; Sp. p. 4979; Gaz. vol. 163; p. 881.
Peppin, Albert, Diorite, Mich. Pipe-raising device. No. 1,003,787; Sept. 19; Sp. p. 3491; Gaz. vol. 170; p. 621.
Pepple, John W., Hillsboro, Tex. Burial-vault. No. 980,670; Jan. 3; Sp. p. 1078; Gaz. vol. 162; p. 171.
Pepple, John W., Hillsboro, Tex. Mail-pouch-transferring apparatus. No. 996,517; June 27; Sp. p. 5307; Gaz. vol. 167; p. 931.
Percival, Charles F., assignor to S. Clark, Springfield, Mass. Convertible seat and bed. No. 991,535; May 9; Sp. p. 1517; Gaz. vol. 166; p. 282.
Percy, George C., Greenville, Miss. Can-cutter. No. 996,671; July 4; Sp. p. 150; Gaz. vol. 168; p. 27.

Percy, George C., Greenville, Miss. Can-cutter. No. 1,007,307; Oct. 31; Sp. p. 6060; Gaz. vol. 171; p. 1106.
Percy, Harry C., Natchitoches, La. Freight-car door. No. 981,793; Jan. 17; Sp. p. 3594; Gaz. vol. 162; p. 610.
Perdue, Henry C., Hobart, Ind. Gas-producer. No. 991,082; May 2; Sp. p. 530; Gaz. vol. 166; p. 91.
Perdue, Luther S., Waycross, Ga. Lumber-jack. No. 1,008,488; Nov. 14; Sp. p. 1956; Gaz. vol. 172; p. 334.
Perell, Meyer, New York, N. Y. Umbrella or parasol. No. 997,846; July 11; Sp. p. 2665; Gaz. vol. 168; p. 458.
Perew, Louis P. (See Rogers and Perew.)
Perey, John F., New York, N. Y. Turnstile. No. 985,544; Feb. 28; Sp. p. 4983; Gaz. vol. 163; p. 882.
Perez, Fernando, Adra, Spain, assignor to Sanitary Safety Razor Company. Safety-razor and corn-knife. No. 1,012,428; Dec. 19; Sp. p. 4526; Gaz. vol. 173; p. 775.
Perfect Bottle Cap Company, The. (See Marks, Charles J., assignor.)
Perfect, Charles A., Sunbury, Ohio. Device for molding concrete blocks. No. 989,721; Apr. 18; Sp. p. 3058; Gaz. vol. 165; p. 539.
Perfection Churn Company. (See Warren, Hugh J., assignor.)
Perfection Harness and Tug Buckle Company, The. (See Carter, Richard B., assignor.)
Perfection Manufacturing Company, The. (See Eberle, John A., assignor.)
Perfection Spring Company, The. (See McIntyre, Michael M., assignor.)
Perfection Vacuum Cleaner Company. (See Wallace, James L. and H., assignors.)
Perfield, Thomas H., Omaha, Nebr. Filing device for sheet-music. No. 1,001,680; Aug. 29; Sp. p. 5299; Gaz. vol. 169; p. 979.
Perine, David M., Pittsburg, Pa. Signal system for elevators. No. 998,034; July 18; Sp. p. 3110; Gaz. vol. 168; p. 566.
Perkin, William H., and C. Weizmann, Manchester, assignors to Research Syndicate Limited, London, England. Manufacturing isoprene. No. 991,453; May 2; Sp. p. 1327; Gaz. vol. 166; p. 222.
Perkins, Almond A., and E. Double, assignors to Perkins Cementing Company, Los Angeles, Cal. Cementing oil-wells. No. 1,011,484; Dec. 12; Sp. p. 2441; Gaz. vol. 173; p. 416.
Perkins Cementing Company. (See Perkins and Double, assignors.)
Perkins, Earl R., Cleveland, Ohio. Automatic gas-pressure alarm. No. 1,009,338; Nov. 21; Sp. p. 3822; Gaz. vol. 172; p. 665.
Perkins Electric Switch Manufacturing Company, The. (See Castonguay, Leger J., assignor.)
Perkins Electric Switch Mfg. Company, The. (See Gagnon, William J., assignor.)
Perkins Electric Switch Mfg. Company, The. (See Thomas, George B., assignor.)
Perkins, Elijah H., Dinuba, Cal. Pumping system. No. 994,335; June 6; Sp. p. 480; Gaz. vol. 167; p. 82.
Perkins, Franklin J., assignor to Holder-Perkins Company, Woburn, Mass. Press. No. 981,468; Jan. 10; Sp. p. 2948; Gaz. vol. 162; p. 478.
Perkins, Franklin J., assignor to Holder-Perkins Company, Woburn, Mass. Sectional work-support for leather-working machines. No. 986,497; Mar. 14; Sp. p. 1578; Gaz. vol. 164; p. 281.
Perkins, Franklin J., assignor to Holder-Perkins Company, Woburn, Mass. Pump. No. 1,002,306; Sept. 5; Sp. p. 274; Gaz. vol. 170; p. 37.
Perkins, Franklin J., Woburn, assignor, by mesne assignments, to The Turner Tanning Machinery Company, Peabody, Mass. Leather-working machine. No. 992,049; May 9; Sp. p. 2567; Gaz. vol. 166; p. 457.
Perkins, George W., Chelsea, assignor to Heaton-Peninsular Button Fastener Company, Boston, Mass. Machine for fastening buttons on shoes and other articles. No. 982,440; Jan. 24; Sp. p. 4997; Gaz. vol. 162; p. 864.
Perkins, George W., assignor to Heaton-Peninsular Button Fastener Company, Boston, Mass. Anticlogging attachment for button-fastening machines. No. 992,899; May 23; Sp. p. 4437; Gaz. vol. 166; p. 814.
Perkins, Herman G., and G. H. Elliott, Topeka, Kans. Fire-alarm. No. 993,870; May 30; Sp. p. 6527; Gaz. vol. 166; p. 1176.
Perkins, Ivan S., Guymon, Okla. Trousers-supporter. No. 984,441; Feb. 14; Sp. p. 2553; Gaz. vol. 163; p. 433.
Perkins, John L., and C. W. Putnam, assignors to B. F. Perkins and Son, Incorporated, Holyoke, Mass. Trolley-harp. No. 993,792; May 30; Sp. p. 6376; Gaz. vol. 166; p. 1149.
Perkins, John L., C. W. Putnam, and C. M. Munson, assignors to B. F. Perkins and Son, Incorporated, Holyoke, Mass. Trolley-wheel. No. 980,432; Jan. 3; Sp. p. 528; Gaz. vol. 162; p. 89.
Perkins, John N., assignor to The Richmond Scale Co., Incorporated, Richmond, Va. Bearing for indicator-shafts. No. 996,518; June 27; Sp. p. 5309; Gaz. vol. 167; p. 931.
Perkins, John N., assignor to Richmond Scale Co., Incorporated, Richmond, Va. Computing-scale. No. 1,004,189; Sept. 26; Sp. p. 4453; Gaz. vol. 170; p. 788.
Perkins, John N., assignor to Richmond Scale Co., Incorporated, Richmond, Va. Bearing for indicator-shafts. No. 1,006,676; Oct. 24; Sp. p. 4669; Gaz. vol. 171; p. 832.
Perkins, Julius A., Omaha, Nebr. Roller-bearing. No. 1,002,439; Sept. 5; Sp. p. 587; Gaz. vol. 170; p. 84.
Perkins, Julius A., Omaha, Nebr. Roller-bearing. No. 1,002,440; Sept. 5; Sp. p. 589; Gaz. vol. 170; p. 85.
Perkins, Julius A., Omaha, Nebr. Roller-bearing. No. 1,002,441; Sept. 5; Sp. p. 591; Gaz. vol. 170; p. 85.
Perkins, Julius A., Omaha, Nebr. Car journal-box. No. 1,002,442; Sept. 5; Sp. p. 596; Gaz. vol. 170; p. 85.
Perkins, Julius A., Omaha, Nebr. Roller-bearing cage. No. 1,002,443; Sept. 5; Sp. p. 600; Gaz. vol. 170; p. 86.
Perkins, Walter G., and W. M. Barker, London, England. Heating air for metallurgical furnaces. No. 996,132; June 27; Sp. p. 4427; Gaz. vol. 167; p. 801.
Perkins, Walter H., Cheshire, assignor to Waterbury Mfg. Co., Waterbury, Conn. Shade-holder. No. 983,457; Feb. 7; Sp. p. 431; Gaz. vol. 163; p. 69.
Perkins, William, assignor of one-half to A. C. Hedrick, Columbia, Okla. Furrow-opener. No. 988,284; Mar. 28; Sp. p. 5361; Gaz. vol. 164; p. 949.
Perkins, William A. (See Edwards and Perkins.)
Perkins, William A., assignor of one-half to J. D. Virdin, Baltimore, Md. Planing-machine and attachment. No. 987,012; Mar. 14; Sp. p. 2636; Gaz. vol. 164; p. 455.
Perkins, William C., *et al.* (See Crawford, Abner W., assignor.)
Perkins, Willis J., Grand Rapids, Mich. Internal-combustion engine. No. 983,307; Feb. 7; Sp. p. 104; Gaz. vol. 163; p. 19.
Perky, Henry D., deceased, Glencoe, Md.; L. Sparks, administrator. Manufacture of food from cereals. No. 987,088; Mar. 14; Sp. p. 2772; Gaz. vol. 164; p. 480.
Perky, Henry D., deceased, Glencoe, Md.; L. Sparks, administrator. Variegated corn filament. No. 987,089; Mar. 14; Sp. p. 2773; Gaz. vol. 164; p. 480.
Perky, Henry D., deceased, Glencoe, Md.; L. Sparks, administrator. Machine for manufacturing grain into form for food. No. 989,999; Apr. 18; Sp. p. 3669; Gaz. vol. 165; p. 635.
Pernice, Nicola, Atlantic City, N. J. Prostatic syringe. No. 994,190; June 6; Sp. p. 186; Gaz. vol. 167; p. 32.
Peront, Clement. (See Lemay, Flory W., assignor.)
Perpick, Mike, Bovey, Minn. Box-lid fastener. No. 1,010,948; Dec. 5; Sp. p. 1216; Gaz. vol. 173; p. 192.
Perram, W. H. (See Keller, Vernet H., assignor.)
Perram, Walter H. (See Kaesen, Julius H., assignor.)
Perrault, Harry E., Detroit, Mich. Driving mechanism. No. 989,040; Apr. 11; Sp. p. 1571; Gaz. vol. 165; p. 275.
Perret, Maurice H., Harburg, Germany. Closing device for poultry-house passages. No. 997,153; July 4; Sp. p. 1178; Gaz. vol. 168; p. 190.
Perrett, Albert, Pittsburg, Pa. Tool-operating machine. No. 986,856; Mar. 14; Sp. p. 2330; Gaz. vol. 164; p. 404.
Perri, Angelo, Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Pulling-over machine. No. 991,168; May 2; Sp. p. 727; Gaz. vol. 166; p. 123.
Perri, Angelo, Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-filling machine. No. 1,004,070; Sept. 26; Sp. p. 4158; Gaz. vol. 170; p. 746.
Perrin, Andrew J., Fargo, Okla. Safety-lock. No. 982,689; Jan. 24; Sp. p. 5500; Gaz. vol. 162; p. 949.
Perrin, Edward J., assignor of one-half to E. A. Hale, Newburyport, Mass. Guard attachment for box-ending machines. No. 1,009,171; Nov. 21; Sp. p. 3416; Gaz. vol. 172; p. 604.
Perrin, Frederic S., Brooklyn, N. Y. Magnetic spark-plug. No. 989,924; Apr. 18; Sp. p. 3497; Gaz. vol. 165; p. 608.
Perrin, John G., Plattsburg, N. Y. Combination tool-box and gas-tank holder. No. 1,004,587; Oct. 3; Sp. p. 78; Gaz. vol. 171; p. 15.
Perrin, William H., New Liskeard, Ontario, Canada. Sheaf-shocker. No. 999,251; Aug. 1; Sp. p. 116; Gaz. vol. 169; p. 22.
Perrine, George H., Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Buckle. No. 986,083; Mar. 7; Sp. p. 701; Gaz. vol. 164; p. 112.
Perrine, Lillie M., *et al.* (See Martin, Van Buren, assignor.)
Perring, Merrick E., Marcellus, Mich. Hammer. No. 991,536; May 9; Sp. p. 1521; Gaz. vol. 166; p. 283.
Perrott, James D., Beaver Falls, Pa. Stair-covering. No. 989,409; Apr. 11; Sp. p. 2369; Gaz. vol. 165; p. 400.
Perry, Alonzo H., Bartlesville, Okla. Current-turbine. No. 988,735; Apr. 4; Sp. p. 965; Gaz. vol. 165; p. 153.
Perry-Austen Manufacturing Company, The. (See Doerflinger, William F., assignor.)
Perry, Charles H., Waterbury, Conn., assignor to American Thermos Bottle Company, New York, N. Y. Metallic case for bottles. No. 995,985; June 20; Sp. p. 4111; Gaz. vol. 167; p. 715.
Perry, Charles J., Detroit, Mich. Drawing-machine. No. 981,304; Jan. 10; Sp. p. 2593; Gaz. vol. 162; p. 422.
Perry, Cyril S. D., Winnipeg, Manitoba, Canada. Grain-car door. No. 996,672; July 4; Sp. p. 154; Gaz. vol. 168; p. 27.

Alphabetical list of patentees—Continued.

Perry, Fred H., Holly, Mich. Stanchion. No. 983,761; Feb. 7; Sp. p. 1081; Gaz. vol. 163; p. 173.
Perry, Frederick H., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for inserting fastenings. No. 1,002,864; Sept. 12; Sp. p. 1524; Gaz. vol. 170; p. 267.
Perry, George S., Dupont, Ga. Telegraph-key. No. 1,012,906; Dec. 26; Sp. p. 5582; Gaz. vol. 173; p. 985.
Perry, Henry T. V., assignor to P. C. Murphy Trunk Company, St. Louis, Mo. Supporting device for clothes-hangers. No. 995,805; June 20; Sp. p. 3748; Gaz. vol. 167; p. 653.
Perry, Hubert M., assignor to H. D. Laughlin, Chicago, Ill. Antifriction side bearing for railway-cars. No. 997,847; July 11; Sp. p. 2667; Gaz. vol. 168; p. 458.
Perry, John A., assignor to The Winton Motor Carriage Company, Cleveland, Ohio. Spring for vehicles. No. 1,006,872; Oct. 24; Sp. p. 5111; Gaz. vol. 171; p. 901.
Perry, John R., assignor to Perry Pipe Company, Chicago, Ill. Tobacco-pipe. No. 987,822; Mar. 28; Sp. p. 4359; Gaz. vol. 164; p. 793.
Perry, John R., assignor to Perry Pipe Company, Chicago, Ill. Cigar and cigarette holder. No. 987,823; Mar. 28; Sp. p. 4361; Gaz. vol. 164; p. 794.
Perry, John R., assignor to The Perry Pipe Company, Chicago, Ill. Tobacco-pipe. No. 987,824; Mar. 28; Sp. p. 4363; Gaz. vol. 164; p. 794.
Perry, Louis I., London, England. Fountain-pen. No. 982,527; Jan. 24; Sp. p. 5197; Gaz. vol. 162; p. 896.
Perry, Luther. (See McKinney and Perry.)
Perry, Oscar B., New York, N. Y. Excavating and separating apparatus. No. 991,083; May 2; Sp. p. 531; Gaz. vol. 166; p. 92.
Perry Pipe Company. (See Perry, John R., assignor.)
Perry, Thomas O., Oak Park, Ill. Fluid-pressure reducer. No. 1,012,701; Dec. 26; Sp. p. 5105; Gaz. vol. 173; p. 915.
Perry, Ward S., and J. O. Eis, assignors to Vesta Accumulator Co., Chicago, Ill. Adjustable electric lamp. No. 999,860; Aug. 8; Sp. p. 1326; Gaz. vol. 169; p. 256.
Perry, William E., Chicago, Ill. Ironing-board. No. 990,586; Apr. 25; Sp. p. 4987; Gaz. vol. 165; p. 869.
Perryman, William H., *et al.* (See Crocker, James, assignor.)
Persans, Ferdinand, West Pittston, Pa. Automatic feeder. No. 991,358; May 2; Sp. p. 1136; Gaz. vol. 166; p. 190.
Pershall, Claire B., Coeur d'Alene, Idaho. Hat-pin construction. No. 996,791; July 4; Sp. p. 384; Gaz. vol. 168; p. 65.
Person, William, and A. C. Abramson, Rockford, Ill. Lamp-shade. No. 985,929; Mar. 7; Sp. p. 376; Gaz. vol. 164; p. 59.
Persons, Charles A., Worcester, Mass. Saddle. No. 981,939; Jan. 17; Sp. p. 3970; Gaz. vol. 162; p. 662.
Persons, Charles A., Worcester, Mass. Saddle. No. 987,825; Mar. 28; Sp. p. 4364; Gaz. vol. 164; p. 795.
Persons, Charles A., T. Crabtree, and A. W. Darling, assignors to Majestic Manufacturing Company, Worcester, Mass. Bicycle-stand. No. 1,004,190; Sept. 26; Sp. p. 4456; Gaz. vol. 170; p. 789.
Persons, Ernest L., Concord, N. H. Device for holding receivers of telephones. No. 1,006,591; Oct. 24; Sp. p. 4506; Gaz. vol. 171; p. 803.
Persons, William F., Cleveland, Ohio. Lamp. No. 986,590; Mar. 14; Sp. p. 1772; Gaz. vol. 164; p. 313.
Pervilhac, Henry. (See Ratignier and Pervilhac.)
Peshek, John, Franksville, Wis. Milk-can. No. 997,324; July 11; Sp. p. 1537; Gaz. vol. 168; p. 279.
Pesses, Abraham M., Houston, Tex. Polisher for hat-brims. No. 994,086; May 30; Sp. p. 6961; Gaz. vol. 166; p. 1248.
Pestel, Arthur, assignor of one-fourth to B. R. Dauscha, New York, N. Y. Vending device. No. 1,000,117; Aug. 8; Sp. p. 1909; Gaz. vol. 169; p. 344.
Peter, Arnold H., Hastings-upon-Hudson, N. Y. Cleansing and disinfecting fluid. No. 981,876; Jan. 17; Sp. p. 3783; Gaz. vol. 162; p. 639.
Peter, August, Cincinnati, Ohio. Garment-suspending device. No. 988,809; Apr. 4; Sp. p. 1107; Gaz. vol. 165; p. 177.
Peter, George W., St. Louis, Mo. Vending-machine. No. 990,899; May 2; Sp. p. 149; Gaz. vol. 166; p. 28.
Peter Gray & Sons. (See Briand, Charles C., assignor.)
Peter Gray & Sons. (See Harrington, Clinton O., assignor.)
Peter, Jacob, London, England. Multitubular dust-collector. No. 996,519; June 27; Sp. p. 5311; Gaz. vol. 167; p. 931.
Peter Spence & Sons Limited. (See Craig, Thomas J. I., assignor.)
Peter, Stephen, Omaha, Nebr. Permutation-lock for milk-cans. No. 992,587; May 16; Sp. p. 3790; Gaz. vol. 166; p. 676.
Peter & Volz. (See Dann, Ernest G., assignor.)
Peterman, Mahlon L., Millside, British Columbia, Canada. Lath-bundler. No. 987,740; Mar. 28; Sp. p. 4188; Gaz. vol. 164; p. 764.
Peterman, Mahlon L., Millside, British Columbia, Canada. Lath-stripper. No. 1,007,308; Oct. 31; Sp. p. 6062; Gaz. vol. 171; p. 1106.
Peterman, Nathaniel S., Garwin, Iowa. Burial-casket. No. 1,003,943; Sept. 19; Sp. p. 3844; Gaz. vol. 170; p. 674.
Peters, Charles. (See Karminski and Peters.)
Peters, Charles L., Marinette, assignor of one-half to R. Bodenbach, Milwaukee, Wis. Stamp-affixing device. No. 981,305; Jan. 10; Sp. p. 2996; Gaz. vol. 162; p. 422.
Peters, Francis T., Terre Haute, Ind. Adjustable ladder-bracket. No. 995,899; June 20; Sp. p. 3950; Gaz. vol. 167; p. 685.
Peters, Frank M. (See Hungerford, Henry H., assignor.)
Peters, Frank M., and H. H. Hungerford, Chicago, Ill.; said Hungerford assignor to said Peters. Slip-inserting mechanism. No. 989,797; Apr. 18; Sp. p. 3236; Gaz. vol. 165; p. 566.
Peters, Frank M., and H. H. Hungerford, Chicago, Ill.; said Hungerford assignor to said Peters. Machine for sealing packages. No. 997,580; July 11; Sp. p. 2035; Gaz. vol. 168; p. 363.
Peters, Gershom M., Cincinnati, and M. F. Lindsley, Kings Mills, Ohio. Safety-powder for blasting. No. 994,273; June 6; Sp. p. 357; Gaz. vol. 167; p. 61.
Peters, Gershom M., Cincinnati, and M. F. Lindsley, Kings Mills, assignors to The King Powder Company, Cincinnati, Ohio. Explosive. No. 988,590; Apr. 4; Sp. p. 653; Gaz. vol. 165; p. 105.
Peters, Gershom M., Cincinnati, and M. F. Lindsley, Kings Mills, assignors to The King Powder Company, Cincinnati, Ohio. Explosive. No. 991,232; May 2; Sp. p. 859; Gaz. vol. 166; p. 146.
Peters, Gershom M., Cincinnati, and M. F. Lindsley, Kings Mills, assignors to The King Powder Company, Cincinnati, Ohio. Device for introducing energizing material into the charge of blasting-cartridges. No. 999,396; Aug. 1; Sp. p. 406; Gaz. vol. 169; p. 72.
Peters, Gershom M., Cincinnati, and M. F. Lindsley, Kings Mills, assignors to The King Powder Company, Cincinnati, Ohio. Explosive. No. 1,011,238; Dec. 12; Sp. p. 1888; Gaz. vol. 173; p. 326.
Peters, Harry A., Vancouver, British Columbia, Canada. Strainer for sink-outlets. No. 989,410; Apr. 11; Sp. p. 2370; Gaz. vol. 165; p. 400.
Peters, Henry, assignor of one-half to H. W. Cullum, London, England. Treatment of cellulose. No. 1,008,489; Nov. 14; Sp. p. 1958; Gaz. vol. 172; p. 335.
Peters, Henry, assignor of one-half to H. W. Cullum, London, England. Treatment of cellulose. No. 1,008,557; Nov. 14; Sp. p. 2099; Gaz. vol. 172; p. 359.
Peters, Howard J., *et al.* (See Sears, Eugene S., assignor.)
Peters, John, St. Louis, Mo. Propelling device for flying-machines. No. 996,276; June 27; Sp. p. 4788; Gaz. vol. 167; p. 849.
Peters, John H., Rice Lake, Wis. Tripping device for overhead carriers. No. 985,056; Feb. 21; Sp. p. 3851; Gaz. vol. 163; p. 680.
Peters, Paul W., Fort Wayne, Ind., assignor to The Horton Manufacturing Company. Driving mechanism for washing-machines. No. 1,008,194; Nov. 7; Sp. p. 1168; Gaz. vol. 172; p. 192.
Peters, Richard E., *et al.* (See Koch, John F., assignor.)
Peters, Robert D., Knox, Ind. Train-controlled highway-signal. No. 985,628; Feb. 28; Sp. p. 5148; Gaz. vol. 163; p. 910.
Peters, Theodore, assignor of three-fourths to Banner Manufacturing Co., Ferdinand, Ind. Pump-piston. No. 1,003,200; Sept. 12; Sp. p. 2235; Gaz. vol. 170; p. 384.
Peters, Walter C. (See Mallory and Peters.)
Peters, Walter C., Tooting, London, England. Lock-nut. No. 996,133; June 27; Sp. p. 4429; Gaz. vol. 167; p. 801.
Peters, William. (See Baird and Peters.)
Peters, William, Bartow, Fla. Dish-drainer. No. 990,454; Apr. 25; Sp. p. 4687; Gaz. vol. 165; p. 824.
Peters, William A. (See James and Peters.)
Peters, William A., Burwell, Nebr. Whip-socket lock. No. 989,925; Apr. 18; Sp. p. 3499; Gaz. vol. 165; p. 609.
Petersen, Adolf J., Berlin, assignor to Holstein & Kappert Maschinenfabrik "Phönix" G. m. b. H., Dortmund, Germany. Bottle-cleaning machine. No. 995,806; June 20; Sp. p. 3749; Gaz. vol. 167; p. 654.
Petersen, Anker, Chelsea, Mass. Carrier for braiding and similar machines. No. 984,022; Feb. 14; Sp. p. 1688; Gaz. vol. 163; p. 290.
Petersen, Charles, English Lake, Ind. Fountain-pen. No. 989,041; Apr. 11; Sp. p. 1574; Gaz. vol. 165; p. 276.
Petersen, Ellef, and M. Clairemont, Santa Barbara, Cal. Preserving compound for eggs. No. 999,589; Aug. 1; Sp. p. 782; Gaz. vol. 169; p. 136.
Petersen, Emil M. F. M. (See Skow and Petersen.)
Petersen, George J., Chicago, Ill. Drawing implement. No. 1,002,749; Sept. 5; Sp. p. 1271; Gaz. vol. 170; p. 190.
Petersen, Hans, Minneapolis, Minn. Linotype-machine. No. 992,900; May 23; Sp. p. 4440; Gaz. vol. 166; p. 814.
Petersen, Hans C. (See Jensen and Petersen.)
Petersen, Henry, Chicago, Ill. Machine for collecting and melting snow. No. 993,400; May 30; Sp. p. 5505; Gaz. vol. 166; p. 1014.
Petersen, Henry, Mount Auburn, Iowa. Cultivator-wheel. No. 1,004,191; Sept. 26; Sp. p. 4458; Gaz. vol. 170; p. 789.

Petersen, Henry, Mount Auburn, Iowa. Cultivator. No. 1,012,221; Dec. 19; Sp. p. 4114; Gaz. vol. 173; p. 705.
Petersen, Niels P., Herman township, Washington county, Nebr. Tug-buckle. No. 982,090; Jan. 17; Sp. p. 4281; Gaz. vol. 162; p. 713.
Petersen, Peter, Horsens, Denmark. Fire-escape. No. 990,770; Apr. 25; Sp. p. 5400; Gaz. vol. 165; p. 931.
Petersohn, August W. (See Hess, Richard E., assignor.)
Peterson, Aaron F., Chicago, Ill. Draft-gear for railway-cars. No. 987,166; Mar. 21; Sp. p. 2971; Gaz. vol. 164; p. 540.
Peterson, Alfred, and R. J. O'Neill, Denver, Colo. Chuck. No. 1,003,369; Sept. 12; Sp. p. 2583; Gaz. vol. 170; p. 444.
Peterson, Alfred, and R. J. O'Neill, Denver, Colo. Wrench. No. 1,005,747; Oct. 10; Sp. p. 2573; Gaz. vol. 171; p. 442.
Peterson, Andrew E. (See Steves, Charles H., assignor.)
Peterson, Arvid L. (See Rand and Graf, assignors.)
Peterson, Bert L., Robinson, Ill. Underreamer. No. 980,331; Jan. 3; Sp. p. 299; Gaz. vol. 162; p. 54.
Peterson, Burt A. (See Colman and Peterson.)
Peterson, Burt A., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Clamp. No. 991,640; May 9; Sp. p. 1748; Gaz. vol. 166; p. 321.
Peterson, Carl M. (See Hollander and Peterson.)
Peterson, Christen J., Chicago, Ill., assignor to S. S. Adams, Plainfield, N. J. Explosive joke-box. No. 986,212; Mar. 7; Sp. p. 945; Gaz. vol. 164; p. 154.
Peterson, Christopher. (See O'Brien, Timothy J., assignor.)
Peterson, Claus G. (See Redin, Andrew W., assignor.)
Peterson, Emil A., Falun, Kans. Knife for cutting broom-corn. No. 998,118; July 18; Sp. p. 3307; Gaz. vol. 168; p. 596.
Peterson, Erick B., Providence, assignor to G. W. Dover, Cranston, R. I. Friction-clutch. No. 1,006,500; Oct. 24; Sp. p. 4290; Gaz. vol. 171; p. 769.
Peterson, Erland, Des Moines, Iowa. Shoe-stretcher. No. 1,010,685; Dec. 5; Sp. p. 623; Gaz. vol. 173; p. 100.
Peterson, Eva A., Villisca, Iowa. Warming-shelf for stoves. No. 1,010,686; Dec. 5; Sp. p. 625; Gaz. vol. 173; p. 100.
Peterson, Fred W., and C. A. Dukes, Oakland, Cal. Latrine. No. 1,012,907; Dec. 26; Sp. p. 5585; Gaz. vol. 173; p. 985.
Peterson, Fredolf, assignor to The American Case & Register Company, Salem, Ohio. Leaf for credit-registers. No. 1,007,384; Oct. 31; Sp. p. 6229; Gaz. vol. 171; p. 1134.
Peterson, George, Duluth, Minn. Boiler. No. 985,281; Feb. 28; Sp. p. 4387; Gaz. vol. 163; p. 791.
Peterson, Gus A. (See Hugill, Gould, and Peterson.)
Peterson, Gus A., assignor of one-third to A. S. Gould and one-third to E. Hugill, Clarksburg, W. Va. Gas-alarm. No. 980,831; Jan. 3; Sp. p. 1396; Gaz. vol. 162; p. 224.
Peterson, Henri W., Seattle, Wash. Hose-coupling. No. 992,050; May 9; Sp. p. 2569; Gaz. vol. 166; p. 457.
Peterson, Henry L., Charles City, Iowa, J. M. Peterson and A. O. Retrum, Dawson, Minn. Storage battery. No. 1,012,908; Dec. 26; Sp. p. 5587; Gaz. vol 173; p. 985.
Peterson, Hyrum, Hooper, Utah. Fence-post and fence-wire fastener. No. 987,485; Mar. 21; Sp. p. 3647; Gaz. vol. 164; p. 650.
Peterson, Ivan L., Burlingame, Cal. Loom. No. 982,862; Jan. 31; Sp. p. 5906; Gaz. vol. 162; p. 1037.
Peterson, James C. and R. T., Gleichen, Alberta, Canada. Rotary explosive-engine. No. 987,486; Mar. 21; Sp. p. 3648; Gaz. vol. 164; p. 650.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Locking mechanism for rotary snap electric switches. No. 980,557; Jan. 3; Sp. p. 829; Gaz. vol. 162; p. 134.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Receptacle for electric lamps. No. 985,629; Feb. 28; Sp. p. 5150; Gaz. vol. 163; p. 910.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Electric-switch receptacle. No. 998,119; July 18; Sp. p. 3308; Gaz. vol. 168; p. 596.
Peterson, Johann G., assignor to The Arrow Electric Company, Hartford, Conn. Electric snap-switch. No. 1,009,172; Nov. 21; Sp. p. 3417; Gaz. vol. 172; p. 604.
Peterson, John M. (See Peterson and Retrum.)
Peterson, Jonas P., Hallock, Minn. Cable-hook. No. 989,635; Apr. 18; Sp. p. 2884; Gaz. vol. 165; p. 510.
Peterson, Jonathan. (See Prescott, Sydney I., assignor.)
Peterson, Jonathan, Brooklyn, N. Y. Carbureter. No. 994,191; June 6; Sp. p. 187; Gaz. vol. 167; p. 33.
Peterson, Joseph N., Ellison Bay, Wis. Logging-bunk. No. 995,633; June 20; Sp. p. 3364; Gaz. vol. 167; p. 593.
Peterson, Karl O. F., Jersey City, N. J. Blotting-pad. No. 1,009,785; Nov. 28; Sp. p. 4772; Gaz. vol. 172; p. 864.
Peterson, Lars A., Stockholm, Sweden. Change-speed gearing. No. 988,025; Mar. 28; Sp. p. 4854; Gaz. vol. 164; p. 863.
Peterson, Oliver U., Victoria, Ill. Pole-tip. No. 999,397; Aug. 1; Sp. p. 408; Gaz. vol. 169; p. 72.
Peterson, Oscar F., Keokuk, Iowa. Jar-holder. No. 981,469; Jan. 10; Sp. p. 2953; Gaz. vol. 162; p. 479.
Peterson, Otto. (See Shimer and Peterson.)
Peterson, Parker J., Stanley, N. Mex. Spring-tire. No. 993,711; May 30; Sp. p. 6210; Gaz. vol. 166; p. 1122.
Peterson, Peter, San Francisco, Cal. Aerial navigation. No. 1,006,592; Oct. 24; Sp. p. 4507; Gaz. vol. 171; p. 803.
Peterson, Peter A. (See Payne, Taylor, and Peterson.)
Peterson, Peter S., Janesville, Wis. Latch. No. 996,792; July 4; Sp. p. 385; Gaz. vol. 168; p. 65.
Peterson, Philip. (See Parker, Charles C., assignor.)
Peterson, Robert T. (See Peterson, James C. and R. T.)
Peterson, Thomas A., and W. D. Plue, Rainier, Oreg. Planing-machine. No. 1,009,688; Nov. 21; Sp. p. 4548; Gaz. vol. 172; p. 783.
Petersson, Albert, Odda, Norway. Electric-resistance furnace. No. 1,002,444; Sept. 5; Sp. p. 602; Gaz. vol. 170; p. 86.
Petigor, Morris H., New York, N. Y. Sweat-band for hats. No. 1,000,439; Aug. 15; Sp. p. 2615; Gaz. vol. 169; p 487.
Petit, John P., Salem, Oreg. Automobile cranking mechanism. No. 1,006,401; Oct. 17; Sp. p. 4045; Gaz. vol. 171; p. 704.
Petow, Lazarus A., Providence, R. I. Pyrotechnic toy. No. 986,944; Mar. 14; Sp. p. 2517; Gaz. vol. 164; p. 434.
Petracek, James, administrator. (See Kolsky, Anthony.)
Petre, Louis J., East Cleveland, Ohio. Carbureter. No. 988,502; Apr. 4; Sp. p. 446; Gaz. vol. 165; p. 73.
Petri-Palmedo, David, Hoboken, N. J., assignor to Electric Compositor Company, New York, N. Y. Linotype-mold. No. 1,005,463; Oct. 10; Sp. p. 1943; Gaz. vol. 171; p. 343.
Petrie, Enos B., New York, N. Y. Diving-suit attachment. No. 984,104; Feb. 14; Sp. p. 1854; Gaz. vol. 163; p. 318.
Petrie, Frank, Oklahoma, Okla. Combination-ladder. No. 992,051; May 9; Sp. p. 2571; Gaz. vol. 166; p. 457.
Petrie, John A., assignor to Mysto Manufacturing Company, Westville, Conn. Trick device. No. 1,010,794; Dec. 5; Sp. p. 882; Gaz. vol. 173; p. 138.
Pétrocochino, Michel, Paris, France. Match-box. No. 995,558; June 20; Sp. p. 3184; Gaz. vol. 167; p. 566.
Petroleum Gas Generator Company. (See Orr, Francis J., assignor.)
Petroleum Rectifying Company. (See Cottrell, Frederick G., assignor.)
Petroleum Rectifying Company. (See Cottrell and Speed, assignors.)
Petroleum Rectifying Company. (See Cottrell and Wright, assignors.)
Petrovics, Max, New York, N. Y. Lock for swing-sashes. No. 986,084; Mar. 7; Sp. p. 702; Gaz. vol. 164; p. 112.
Petry, Jacob, Pittsburg, Pa. Dental plate. No. 990,000; Apr. 18; Sp. p. 3671; Gaz. vol. 165; p. 636.
Petry, Jacob, Pittsburgh, Pa. Dental suction-plate. No. 1,005,296; Oct. 10; Sp. p. 1578; Gaz. vol. 171; p. 285.
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Blowing-engine or compressor. No. 986,752; Mar. 14; Sp. p. 2110; Gaz. vol. 164; p. 369.
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Exhaust-valve for gas-engines. No. 989,536; Apr. 11; Sp. p. 2649; Gaz. vol. 165; p. 445.
Petsche, Gustav B., assignor to The Southwark Foundry and Machine Company, Philadelphia, Pa. Starting device for gas-engines. No. 991,233; May 2; Sp. p. 860; Gaz. vol. 166; p. 146.
Petsche, Gustav B., assignor to Southwark Foundry & Machine Company, Philadelphia, Pa. Starting mechanism for gas-engines. No. 991,454; May 2; Sp. p. 1328; Gaz. vol. 166; p. 222.
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Balanced rotary valve. No. 993,401; May 30; Sp. p. 5507; Gaz. vol. 166; p. 1014.
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Blowing-engine or compressor. No. 1,008,558; Nov. 14; Sp. p. 2100; Gaz. vol. 172; p. 359.
Petsche, Gustav B., assignor to Southwark Foundry and Machine Company, Philadelphia, Pa. Blowing-engine or compressor. No. 1,008,559; Nov. 14; Sp. p. 2105; Gaz. vol. 172; p. 360.
Petta, John A., Seattle, Wash. Watch-balance. No. 988,139; Mar. 28; Sp. p. 5080; Gaz. vol. 164; p. 901.
Pettengill, George M., Haverhill, Mass., assignor to Haverhill Shoe Machinery Company. Awl for pricking heels. No. 999,182; July 25; Sp. p. 5621; Gaz. vol. 168; p. 999.
Petterson, Henrik A. (See Sjöstrand and Petterson.)
Petterson, Werner, Sr. (See Kroehler and Petterson.)
Pettibone, Hawley, New Rochelle, N. Y., assignor to The Power and Mining Machinery Company. Apparatus for manufacturing gas. No. 1,007,385; Oct. 31; Sp. p. 6230; Gaz. vol. 171; p. 1134.
Pettibone, Hawley, New Rochelle, N. Y., and C. L. Straub, Perth Amboy, N. J., assignors to Marine Producer Gas Power Company. Operating gas-power plants. No. 1,004,588; Oct. 3; Sp. p. 80; Gaz. vol. 171; p. 15.

Alphabetical list of patentees—Continued.

Pettigrew, William F., Barrow-in-Furness, assignor to New Superheater Company, Limited, London, England. Superheater. No. 984,294; Feb. 14; Sp. p. 2271; Gaz. vol. 163; p. 384.
Pettingill, Benjamin M., *et al.*, administrators. (See Miller, Fredrick W.)
Pettit, James C., Crewe, Va. System for locating errors in calculations. No. 1,000,291; Aug. 8; Sp. p. 2280; Gaz. vol. 169; p. 404.
Pettit, John E., assignor of one-half to P. H. Mathews, Los Angeles, Cal. Barrel-hoop driver. No. 1,009,563; Nov. 21; Sp. p. 4319; Gaz. vol. 172; p. 744.
Pettit, Lafe, Victor, Colo. Spring-packing piston-head. No. 993,458; May 30; Sp. p. 5638; Gaz. vol. 166; p. 1032.
Pettit, Morgan, and L. S. Roll, Connersville, Ind. Child's vehicle. (Reissue.) No. 13,326; Nov. 28; Sp. p. 6054; Gaz. vol. 172; p. 1074.
Petty, Oliver P., *et al.* (See Smith, Walton D., assignor.)
Petz, Philip P., *et al.* (See Crawford, Abner W., assignor.)
Petzke, Bernhard L. (See Olson and Petzke.)
Peuvot, Henri, Paris, France. Kite. No. 984,295; Feb. 14; Sp. p. 2273; Gaz. vol. 163; p. 385.
Pew, John J. (See Sackett, Jasper L., assignor.)
Pexton, Guy C., Dayton, Ohio. Cardboard carton. No. 1,000,624; Aug. 15; Sp. p. 3053; Gaz. vol. 169; p. 555.
Peyton, Frederic A. (See Foster, John W., assignor.)
Peyton, William M. (See Denmon and Peyton.)
Pfaff, Armand C., and P. W. Hansen, Chicago, Ill. Folding umbrella. No. 990,001; Apr. 18; Sp. p. 3671; Gaz. vol. 165; p. 636.
Pfaff, Fritz, Acacias, Geneva, Switzerland. Compasses. No. 984,697; Feb. 21; Sp. p. 3144; Gaz. vol. 163; p. 556.
Pfaff, Mary E., Philadelphia, Pa. Veterinary medicine-spoon. No. 1,010,795; Dec. 5; Sp. p. 883; Gaz. vol. 173; p. 138.
Pfaff, Richard, and W. Suter, Zurich, Switzerland. Bottle-filling machine. No. 988,657; Apr. 4; Sp. p. 789; Gaz. vol. 165; p. 126.
Pfaff, Richard, and W. Suter, Zurich, Switzerland. Bottle-filling machine. No. 988,658; Apr. 4; Sp. p. 791; Gaz. vol. 165; p. 127.
Pfalzgraf, Charles A., Northwood, N. D. Canceling-machine. No. 993,712; May 30; Sp. p. 6211; Gaz. vol. 166; p. 1122.
Pfanhauser, Wilhelm, Leipzig, Germany. Manufacture of thin electrolytic iron plates of large area. No. 987,318; Mar. 21; Sp. p. 3302; Gaz. vol. 164; p. 593.
Pfanhauser, Wilhelm, Leipzig, Germany. Manufacture of metal bands, wire, &c., from electrolytic iron. No. 1,001,770; Aug. 29; Sp. p. 5494; Gaz. vol. 169; p. 1009.
Pfanne, Carl A. G., Hoboken, N. J. Device for graining lithographic stones. No. 990,384; Apr. 25; Sp. p. 4523; Gaz. vol. 165; p. 798.
Pfanstiehl, Carl A., Highland Park, assignor to Pfanstiehl Electrical Laboratory, North Chicago, Ill. Armature for magneto-electric machines. No. 983,308; Feb. 7; Sp. p. 111; Gaz. vol. 163; p. 20.
Pfanstiehl, Carl A., Highland Park, assignor to Pfanstiehl Electrical Laboratory, North Chicago, Ill. Manufacture of armature-housings. No. 985,700; Feb. 28; Sp. p. 5336; Gaz. vol. 163; p. 935.
Pfanstiehl, Carl A., Highland Park, assignor to Pfanstiehl Electrical Laboratory, North Chicago, Ill. Electric switch. No. 985,701; Feb. 28; Sp. p. 5336; Gaz. vol. 163; p. 935.
Pfanstiehl, Carl A., Highland Park, assignor to Pfanstiehl Electrical Laboratory, North Chicago, Ill. Electric switch. No. 998,301; July 18; Sp. p. 3724; Gaz. vol. 168; p. 663.
Pfanstiehl Electrical Laboratory. (See Pfanstiehl, Carl A., assignor.)
Pfau, Charles, assignor to The Pfau Manufacturing Company, Cincinnati, Ohio. Operating mechanism for water-closet flushing-tanks. No. 989,042; Apr. 11; Sp. p. 1576; Gaz. vol. 165; p. 276.
Pfau Manufacturing Company, The. (See Pfau, Charles, assignor.)
Pfaudler Company. (See Stanford and Craddock, assignors.)
Pfaul, Curt, Blasewitz, Dresden, Germany. Ore-roasting furnace. No. 989,868; Apr. 18; Sp. p. 3377; Gaz. vol. 165; p. 589.
Pfautz, Daniel M., assignor of one-third to W. H. Tigerman, Philadephia, Pa. Steamship. No. 995,559; June 20; Sp. p. 3185; Gaz. vol. 167; p. 566.
Pfeffer, August, Ulm, Germany. Making diabetic bread. No. 989,189; Apr. 11; Sp. p. 1882; Gaz. vol. 165; p. 327.
Pfeffer, Jacob, Waterloo, Iowa. Adjustable register box or head. No. 1,007,309; Oct. 31; Sp. p. 6064; Gaz. vol. 171; p. 1106.
Pfeifer, Ignac, and E. Szarvasy, Budapest, Austria-Hungary. Production of halogen derivatives of hydrocarbons. No. 1,012,149; Dec. 19; Sp. p. 3947; Gaz. vol. 171; p. 682.
Pfeifer, Peter, Durhamville, N. Y. Split pulley. No. 1,009,786; Nov. 28; Sp. p. 4773; Gaz. vol. 172; p. 864.
Pfeiffer, Charles. (See Prussak and Pfeiffer.)
Pfeiffer, Otto G., assignor to Standard Development Company, Salt Lake City, Utah. Washing-machine. No. 980,558; Jan. 3; Sp. p. 830; Gaz. vol. 162; p. 134.
Pfeiffer, Otto G., assignor to Standard Development Company, Salt Lake City, Utah. Automatic reversing-gearing. No. 981,940; Jan. 17; Sp. p. 3974; Gaz. vol. 162; p. 663.
Pfeiffer, Otto G., assignor, by mesne assignments, to Utahna Development Company, Salt Lake City, Utah. Automatic reversible gearing. No. 991,359; May 2; Sp. p. 1141; Gaz. vol. 166; p. 190.
Pfeifle, John, Goodrich, N. D. Attachment for harvesters. No. 1,000,550; Aug. 15; Sp. p. 2870; Gaz. vol. 169; p. 526.
Pfeil, Elmer C., Fostoria, Ohio. Protecting-case for fuses. No. 995,174; June 13; Sp. p. 2353; Gaz. vol. 167; p. 407.
Pfeil, Frederick C. (See Kern, George F., assignor.)
Pfeil, George H., assignor to The Union Switch & Signal Company, Swissvale, Pa. Electric motor. No. 989,798; Apr. 18; Sp. p. 3239; Gaz. vol. 165; p. 566.
Pfeil, George H., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal semaphore. No. 991,537; May 9; Sp. p. 1526; Gaz. vol. 166; p. 283.
Pfeil, Grace, Chicago, Ill. Corset. No. 1,007,602; Oct. 31; Sp. p. 6710; Gaz. vol. 171; p. 1208.
Pflager, Harry M. (See Howard and Pflager.)
Pflager, Harry M., St. Louis, Mo. Car construction. No. 995,560; June 20; Sp. p. 3188; Gaz. vol. 167; p. 567.
Pflager, Harry M., St. Louis, Mo. Friction draft-gear for railway-cars. No. 999,252; Aug. 1; Sp. p. 120; Gaz. vol. 169; p. 22.
Pflager, Harry M., St. Louis, Mo. Car construction. No. 999,253; Aug. 1; Sp. p. 122; Gaz. vol. 169; p. 22.
Pflager, Harry M., assignor to Double Body Bolster Company, St. Louis, Mo. Railway-car brake-gear. No. 996,134; June 27; Sp. p. 4430; Gaz. vol. 167; p. 802.
Pflager, Harry M., St. Louis, Mo., and H. C. Van Buskirk, Denver, Colo., assignors to Double Body Bolster Company, St. Louis, Mo. Car-truck. No. 1,007,140; Oct. 31; Sp. p. 5710; Gaz. vol. 171; p. 1047.
Pflasterer, Charles, Valmeyer, Ill. Revolving Christmas tree and Ferris wheel. No. 985,545; Feb. 28; Sp. p. 4985; Gaz. vol. 163; p. 882.
Pfleegor, John L., Milton, Pa. Metallic railway-tie. No. 988,947; Apr. 4; Sp. p. 1373; Gaz. vol. 165; p. 220.
Pfleiderer, Georg, Gross-Lichterfelde, near Berlin, Germany. Electric battery. No. 1,011,485; Dec. 12; Sp. p. 2445; Gaz. vol. 173; p. 416.
Pflueger, Ernest A., assignor to The E. A. Pflueger Company, Akron, Ohio. Buckle-shield. No. 985,057; Feb. 21; Sp. p. 3855; Gaz. vol. 163; p. 680.
Pflueger, Ernest A., assignor to The E. A. Pflueger Company, Akron, Ohio. Artificial bait. No. 1,007,007; Oct. 24; Sp. p. 5394; Gaz. vol. 171; p. 945.
Pflueger, George A., assignor to The Enterprise Manufacturing Company, Arkon, Ohio. Fishing-float. No. 983,309; Feb. 7; Sp. p. 112; Gaz. vol. 163; p. 20.
Pflueger, George A., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-float. No. 983,310; Feb. 7; Sp. p. 113; Gaz. vol. 163; p. 20.
Pflueger, George A., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Artificial bait. No. 989,869; Apr. 18; Sp. p. 3377; Gaz. vol. 165; p. 589.
Pfohl, Charles J., San Jose, Cal. Vending-machine. No. 1,001,438; Aug. 22; Sp. p. 4808; Gaz. vol. 169; p. 866.
Pfouts, Leander, Beach City, Ohio. Legging. No. 1,004,812; Oct. 3; Sp. p. 568; Gaz. vol. 171; p. 93.
Pfouts, Leroy S., assignor to The Miller Pasteurizing Machine Company, Canton, Ohio. Pasteurizing apparatus for milk and other liquids. No. 990,494; Apr. 25; Sp. p. 4800; Gaz. vol. 165; p. 838.
Pfouts, Leroy S., assignor to The Miller Pasteurizing Machine Company, Canton, Ohio. Frame for ice-cream freezers. No. 990,495; Apr. 25; Sp. p. 4806; Gaz. vol. 165; p. 838.
Pfouts, Leroy S., assignor to The Miller Pasteurizing Machine Company, Canton, Ohio. Ice-cream freezer. No. 990,496; Apr. 25; Sp. p. 4807; Gaz. vol. 165; p. 839.
Pfouts, Leroy S., assignor to The Miller Pasteurizing Machine Company, Canton, Ohio. Ice-cream freezer. No. 990,497; Apr. 25; Sp. p. 4810; Gaz. vol. 165; p. 839.
Pfouts, Leroy S., assignor to The Miller Pasteurizing Machine Company, Canton, Ohio. Batch-mixer for ice-cream freezers. No. 990,498; Apr. 25; Sp. p. 4816; Gaz. vol. 165; p. 840.
Pfremmer, Joseph S., assignor of one-half to H. J. Johnson, Oakes, N. D. Oil-can. No. 1,006,004; Oct. 17; Sp. p. 3143; Gaz. vol. 171; p. 565.
Pfrengle, Otto, Stuttgart, Germany. Tube-rolling machine. No. 987,598; Mar. 21; Sp. p. 3861; Gaz. vol. 164; p. 688.
Phalp, James, Durham, England. Acetylene-lamp. No. 988,810; Apr. 4; Sp. p. 1108; Gaz. vol. 165; p. 177.
Phalp, James, Seaham Harbour, England. Stop-action for perambulators and similar vehicles. No. 995,480; June 20; Sp. p. 3023; Gaz. vol. 167; p. 538.
Phares, James T., C. Mieher, and M. Seyfrit, Carlinville, Ill. Cross and switch tie. No. 1,011,839; Dec. 12; Sp. p. 3236; Gaz. vol. 173; p. 539.
Phelan, John T., Marshall, Mo. Cooling device for treating fever cases. No. 1,004,192; Sept. 26; Sp. p. 4460; Gaz. vol. 170; p. 789.

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Phelan, Merton D., Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Automatic heel-seat rough-rounder. No. 1,005,573; Oct. 10; Sp. p. 2214; Gaz. vol. 171; p. 383.
Phelan, William J., Bennington, Vt. Spring. No. 988,382; Apr. 4; Sp. p. 202; Gaz. vol. 165; p. 33.
Phelps, Algernon S., Jr., Chicago, Ill. Acetylene-gas generator. No. 989,411; Apr. 11; Sp. p. 2371; Gaz. vol. 165; p. 401.
Phelps, Algernon S., and J. N. J. Hilbert; said Hilbert assignor to said Phelps, Chicago, Ill. Acetylene-generator. No. 1,008,058; Nov. 7; Sp. p. 886; Gaz. vol. 172; p. 142.
Phelps, E. J. (See Nelson, De Witt, assignor.)
Phelps, Edwin S., New York, N. Y. Vibration-recorder for automobiles and other vehicles. No. 1,001,220; Aug. 22; Sp. p. 4349; Gaz. vol. 169; p. 792.
Phelps, Eligah H., Nicholson, Pa. Scaffold. No. 1,000,842; Aug. 15; Sp. p. 3504; Gaz. vol. 169; p. 630.
Phelps, Frank, Little Rock, Ark. Cotton-distributer. No. 985,930; Mar. 7; Sp. p. 377; Gaz. vol. 164; p. 60.
Phelps, Frank, Little Rock, Ark. Driving mechanism for cotton-gin feeders. No. 985,931; Mar. 7; Sp. p. 379; Gaz. vol. 164; p. 60.
Phelps, Frank, Little Rock, Ark. Compress. No. 1,009,258; Nov. 21; Sp. p. 3647; Gaz. vol. 172; p. 636.
Phelps, Frank, Little Rock, Ark. Cotton-gin. No. 1,013,053; Dec. 26; Sp. p. 5916; Gaz. vol. 173; p. 1035.
Phelps, Frank, Little Rock, Ark., assignor of one-third to A. M. Allen, Minneapolis, Minn., and one-third to H. S. Kennedy, Little Rock, Ark. Cotton-seed cleaner. No. 1,005,297; Oct. 10; Sp. p. 1579; Gaz. vol. 171; p. 285.
Phelps, George W., Farmington, N. Mex. Hay-press. No. 996,520; June 27; Sp. p. 5314; Gaz. vol. 167; p. 932.
Phelps, Homer L., Martinsburg, W. Va. Power-transmission device. No. 1,005,464; Oct. 10; Sp. p. 1944; Gaz. vol. 171; p. 343.
Phelps, James C., Springfield, Mass. Insulating-cap. No. 986,213; Mar. 7; Sp. p. 947; Gaz. vol. 164; p. 154.
Phelps, Sidney W., Southbridge, Mass. Non-refillable bottle. No. 984,844; Feb. 21; Sp. p. 3444; Gaz. vol. 163; p. 608.
Phelps, Walter J., Baltimore, Md. Apparatus for soldering side seams of can-bodies. No. 993,195; May 23; Sp. p. 5065; Gaz. vol. 166; p. 914.
Phelps, Walter J., Baltimore, Md. Machine for cutting solder rings and applying the same to the edges of can-caps. No. 1,005,298; Oct. 10; Sp. p. 1581; Gaz. vol. 171; p. 285.
Phelps, Walter J., Baltimore, Md. Machine for cutting solder rings and applying the same to the edges of can-caps. No. 1,005,299; Oct. 10; Sp. p. 1587; Gaz. vol. 171; p. 286.
Phenegar, C. A., *et al.* (See Basford, Claude R., assignor.)
Phenice, William H., North Vernon, Ind. Toy spinner. No. 989,286; Apr. 11; Sp. p. 2112; Gaz. vol. 165; p. 360.
Phenicie, Charles L., Franklin, Pa. Nut-lock. No. 1,011,840; Dec. 12; Sp. p. 3237; Gaz. vol. 173; p. 539.
Phifer, Washington I., Collinsville, assignor of one-fourth to J. F. Bentley, Edwardsville, Ill. Engine. No. 1,006,269; Oct. 17; Sp. p. 3752; Gaz. vol. 171; p. 660.
Philadelphia Metallic Bed Company. (See Irelan, Alfred E., assignor.)
Philadelphia Pipe Bending Company, The. (See Schneider, Leopold C., assignor.)
Philadelphia Roll and Machine Company, The. (See Crook, Alfred I., assignor.)
Philadelphia Textile Machinery Company, The. (See Schwartz, Walter M., assignor.)
Philadelphia Textile Machinery Company, The. (See Schwartz and Schreuder, assignors.)
Philbrook, Francis J., Brewer, and G. A. Hersey, assignors to Acme Manufacturing Company, Bangor, Me. Metallic spool. No. 985,702; Feb. 28; Sp. p. 5338; Gaz. vol. 163; p. 935.
Philip Carey Manufacturing Company, The. (See Moeller, William J., assignor.)
Philip Ruxton, Incorporated. (See Allen, Arthur S., assignor.)
Philip, William, Germiston, Transvaal. Safety device for reversible winding or hauling plants. No. 999,520; Aug. 1; Sp. p. 646; Gaz. vol. 169; p. 111.
Philippi, Otto, Chicago, Ill. Refrigerator. No. 988,895; Apr. 4; Sp. p. 1268; Gaz. vol. 165; p. 203.
Philipps, August and O., Frankfort-on-the-Main, Germany. Musical instrument. No. 991,234; May 2; Sp. p. 865; Gaz. vol. 166; p. 146.
Phillians, Edward, assignor of one-fourth to O. B. Emerson, Scofield, Utah. Boiler check or check-valve. No. 999,861; Aug. 8; Sp. p. 1328; Gaz. vol. 169; p. 256.
Phillipps, Benjamin H., assignor to P. W. Merrill, Boston, Mass. Storm-window hinge. No. 1,004,813; Oct. 3; Sp. p. 569; Gaz. vol. 171; p. 93.
Phillips, Albert, Leyton, assignor to Margewood Locks Limited, London, England. Lock and latch. No. 982,863; Jan. 31; Sp. p. 5909; Gaz. vol. 162; p. 1037.
Phillips, Andrew E. (See Phillips, Stephan and A. E.)
Phillips, Benjamin H., King City, Mo. Cultivator. No. 1,001,439; Aug. 22; Sp. p. 4810; Gaz. vol. 169; p. 867.
Phillips & Clark Stove Company. (See Heister, John F., assignor.)
Phillips, David J. (See Bartholomew and Phillips.)
Phillips Demountable Rim Company. (See Phillips, Elwood C., assignor.)
Phillips, Eben B., *et al.* (See Gage, Charles M., assignor.)
Phillips, Elwood C., Chicago, Ill., assignor to Phillips Demountable Rim Company, Indianapolis, Ind. Demountable rim. No. 1,001,886; Aug. 29; Sp. p. 5756; Gaz. vol. 169; p. 1050.
Phillips, Frank A. (See McCreedy and Phillips.)
Phillips, Frank G., Vancouver, British Columbia, Canada. Lubricator for elevator-guides. No. 998,633; July 25; Sp. p. 4430; Gaz. vol. 168; p. 810.
Phillips, George H. (See Phillips, James E., assignor.)
Phillips, George W., New York, N. Y. Device for the administration of medicated oxygen. No. 1,009,929; Nov. 28; Sp. p. 5047; Gaz. vol. 172; p. 911.
Phillips, Jacob, Westfield, Pa. Flying-machine. No. 989,412; Apr. 11; Sp. p. 2377; Gaz. vol. 165; p. 401.
Phillips, James E., assignor of one-half to G. H. Phillips, Indianapolis, Ind. Coin-controlled lock. No. 994,031; May 30; Sp. p. 6848; Gaz. vol. 166; p. 1229.
Phillips, James W., Cleveland, Ohio. Lighting-fixture. No. 993,713; May 30; Sp. p. 6214; Gaz. vol. 166; p. 1123.
Phillips, Jay V., assignor of one-half to E. J. Bean, Rochester, Tex. Paper-hanging machine. No. 986,310; Mar. 7; Sp. p. 1153; Gaz. vol. 164; p. 186.
Phillips, John H., Oklahoma, Okla. Spring-hammer. No. 1,006,873; Oct. 24; Sp. p. 5112; Gaz. vol. 171; p. 901.
Phillips, John H., assignor of one-half to J. H. Phillips, Jr., McKees Rocks, Pa. Vehicle-wheel. No. 1,007,728; Nov. 7; Sp. p. 165; Gaz. vol. 172; p. 27.
Phillips, John H., Jr. (See Phillips, John H., assignor.)
Phillips, John W. (See Edwards, Charles J., assignor.)
Phillips, Joseph, Cincinnati, Ohio. Open-air sleeping-compartment. No. 980,433; Jan. 3; Sp. p. 530; Gaz. vol. 162; p. 89.
Phillips, Marcus, Chicago, Ill. Catamaran. No. 1,009,564; Nov. 21; Sp. p. 4321; Gaz. vol. 172; p. 744.
Phillips, Mark C., Corvallis, Oreg. Picture-display cabinet. No. 995,287; June 13; Sp. p. 2559; Gaz. vol. 167; p. 444.
Phillips, Mary A., Montreal, Quebec, Canada. Vehicle-tire. No. 992,052; May 9; Sp. p. 2572; Gaz. vol. 166; p. 458.
Phillips, Nathan C., assignor to Russia Cement Co., Gloucester, Mass. Glue-spreader. No. 1,007,971; Nov. 7; Sp. p. 721; Gaz. vol. 172; p. 113.
Phillips, Nicholas P., Michigan City, Ind. Railway bumping-post. No. 998,981; July 25; Sp. p. 5238; Gaz. vol. 168; p. 933.
Phillips, Norvel L., Syracuse, N. Y. Safety-razor. No. 999,398; Aug. 1; Sp. p. 409; Gaz. vol. 169; p. 72.
Philipps, Oswald. (See Philipps, August and O.)
Phillips, Robert E., Gerrards Cross, England. Igniting of the charges in internal-combustion engines. No. 1,008,059; Nov. 7; Sp. p. 890; Gaz. vol. 172; p. 143.
Phillips, Stephan and A. E., Cleveland, Ohio. Motor-vehicle. No. 1,005,068; Oct. 3; Sp. p. 1074; Gaz. vol. 171; p. 180.
Phillips, Stephen J., Glencoe West, South Australia, Australia. Cutting and cauterizing device. No. 988,140; Mar. 28; Sp. p. 5080; Gaz. vol. 164; p. 901.
Phillips, Thomas E. R., Liverpool, England. Electric auto-musical instrument. No. 1,003,201; Sept. 12; Sp. p. 2236; Gaz. vol. 170; p. 384.
Phillips, Walter, London, England, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake. No. 991,538; May 9; Sp. p. 1527; Gaz. vol. 166; p. 284.
Phillips, Wesley A. (See Watt, George H., assignor.)
Phillips, William A. (See Ramsburg, Phillips, and Swope.)
Phillips, William R. (See Stamps and Phillips.)
Phillips, William T. (See De Lisle and Phillips.)
Phillips, Willis E., Collbran, Colo. Photographic light screen or filter. No. 1,003,064; Sept. 12; Sp. p. 1938; Gaz. vol. 170; p. 335.
Philo, Archie, Cleveland, Ohio. Heating-stove. No. 984,296; Feb. 14; Sp. p. 2274; Gaz. vol. 163; p. 385.
Philpot, Brian F., Brooklyn, N. Y. Molding-machine for cylindrical phonograms. No. 999,183; July 25; Sp. p. 5622; Gaz. vol. 168; p. 1000.
Phinney, Albert, Chicago, Ill. Carbureter. No. 988,659; Apr. 4; Sp. p. 793; Gaz. vol. 165; p. 127.
Phinney, Elisha A., Pawtucket, R. I. Separable button. No. 1,012,222; Dec. 19; Sp. p. 4118; Gaz. vol. 173; p. 706.
Phinney, Fred S. (See Adams, Otto, assignor.)
Phinney, Frederick, New York, N. Y. Keyless clock. No. 1,010,172; Nov. 28; Sp. p. 5547; Gaz. vol. 172; p. 994.
Phinney-Walker Key-Less Clock Company. (See Milz, Walter E. E., assignor.)
Phippen, Ulysses G., Hugo, Okla. Device for preventing runaways. No. 990,455; Apr. 25; Sp. p. 4689; Gaz. vol. 165; p. 824.
Phipps, Albert J., Catonsville, Md. Refrigerator-can. No. 989,287; Apr. 11; Sp. p. 2113; Gaz. vol. 165; p. 360.
Phipps, Charles F., Trivoli, Ill. Seed-corn hanger. No. 982,864; Jan. 31; Sp. p. 5910; Gaz. vol. 162; p. 1037.
Phipps, Dexter L. (See Jackson, John A., assignor.)

Alphabetical list of patentees—Continued.

Phipps, Martin V., *et al.* (See Bentley, Thomas, assignor.)
Phoenix Combination Lock Company. (See Bennett, Fred E., assignor.)
Phönix-Werk G. m. b. H. (See Meister, Richard, assignor.)
Phönix-Werk, G. m. b. H. (See Otto, Friedrich E., assignor.)
Phonofilm Syndicate. (See Craig, John R., Jr., assignor.)
Piaseczny, John, Holyoke, Mass. Percolator. No. 1,008,861; Nov. 14; Sp. p. 2756; Gaz. vol. 172; p. 464.
Piatek, Piotr, Philadelphia, Pa. Milk-bottle closure. No. 1,001,440; Aug. 22; Sp. p. 4812; Gaz. vol. 169; p. 867.
Pica, Francesco A., Harrison, N. J. Clock. No. 997,004; July 4; Sp. p. 883; Gaz. vol. 168; p. 140.
Pica, Francesco A., Newark, N. J. Bit. No. 1,008,363; Nov. 14; Sp. p. 1624; Gaz. vol. 172; p. 291.
Picard, Georges, Buenos Aires, Argentina. Producing textile fibers from flax, hemp, and the like. No. 995,561; June 20; Sp. p. 3190; Gaz. vol. 167; p. 567.
Picard, Raymond F., assignor to Société Picard & Pétot, Paris, France. Prism-glasses. No. 1,009,259; Nov. 21; Sp. p. 3649; Gaz. vol. 172; p. 637.
Piccardo, Dionisio. (See Bertolotti and Piccardo.)
Pichault, Stephane, Valenciennes, France. Apparatus for storing and distributing wind-power. No. 984,599; Feb. 21; Sp. p. 2927; Gaz. vol. 163; p. 521.
Pichault, Stéphane, Valenciennes, France. Windmill-actuated air-compressor. No. 1,000,690; Aug. 15; Sp. p. 3191; Gaz. vol. 169; p. 577.
Picher, Gedeon, Waterville, Me. Combination wood-working-machine. No. 1,011,367; Dec. 12; Sp. p. 2189; Gaz. vol. 173; p. 373.
Picher Lead Company. (See Hughes, Louis S., assignor.)
Pichler, Stephan, New York, N. Y. Adjustable horse. No. 984,845; Feb. 21; Sp. p. 3446; Gaz. vol. 163; p. 608.
Pichler, Stephan, New York, N. Y. Adjustable horse. No. 984,846; Feb. 21; Sp. p. 3447; Gaz. vol. 163; p. 609.
Pichon, Paul F. (See Schloemilch and Pichon.)
Pickard, Greenleaf W., Amesbury, Mass. Meter for electromagnetic-wave communication. No. 993,316; May 23; Sp. p. 5303; Gaz. vol. 166; p. 952.
Pickard, Thomas W., Columbus, Ohio. Vehicle-top-back-stay fastener. No. 987,396; Mar. 21; Sp. p. 3467; Gaz. vol. 164; p. 620.
Pickel, Elsworth. (See Overlin, William S., assignor.)
Pickens, James H., and A. M. Shepard, assignors to C. P. Smith, Amarillo, Tex. Oil-burner. No. 995,088; June 13; Sp. p. 2185; Gaz. vol. 167; p. 379.
Pickering Governor Co., The. (See Hall, Stephen S., assignor.)
Pickering Governor Co., The. (See Pascall, Richard H., assignor.)
Pickering, Ruben L., Falling Spring, W. Va. Folding crate. No. 995,712; June 20; Sp. p. 3525; Gaz. vol. 167; p. 621.
Pickett, Charles G., North Berwick, Me. Toy. No. 996,793; July 4; Sp. p. 386; Gaz. vol. 168; p. 65.
Pickett, James A., Pulaski, Va. Combined roller-support and track for car-doors. No. 1,000,551; Aug. 15; Sp. p. 2872; Gaz. vol. 169; p. 526.
Pickford, Edward F., *et al.* (See Rupley, George H., assignor.)
Pickle, Voyl C., Palestine, Tex. Automatic switch. No. 990,900; May 2; Sp. p. 152; Gaz. vol. 166; p. 29.
Pickles, Charles K., assignor to Dalton Adding Machine Company, St. Louis, Mo. Adding and recording machine. No. 1,005,779; Oct. 10; Sp. p. 2638; Gaz. vol. 171; p. 455.
Picón, Pablo A., Mérida, Venezuela. Sugar-cane cutting and crushing machine. No. 991,360; May 2; Sp. p. 1147; Gaz. vol. 166; p. 191.
Pictet, Auguste, Geneva, Switzerland. Telephone installation. No. 1,009,689; Nov. 21; Sp. p. 4550; Gaz. vol. 172; p. 784.
Pidgeon, Charles M., Washington, D. C. Attachment for surveying instruments or transits. No. 989,288; Apr. 11; Sp. p. 2114; Gaz. vol. 165; p. 360.
Piel, Gottfried. (See Kiesel, Nicholas, assignor.)
Pielock, Eduard, Berlin, Germany. Water-purifier for fire-tube boilers. No. 1,011,133; Dec. 5; Sp. p. 1614; Gaz. vol. 173; p. 255.
Piepenstock, Rudolf. (See Steller and Piepenstock.)
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
Pieper, Alphonse F., Rochester, N. Y. Electric-motor regulation. No. 985,932; Mar. 7; Sp. p. 380; Gaz. vol. 164; p. 60.
Pieper, Oscar H. and A. F., Rochester, N. Y. Dental engine. No. 1,011,239; Dec. 12; Sp. p. 1890; Gaz. vol. 173; p. 326.
Pieper, Oscar H. and A. F., Rochester, N. Y. Electrical controlling apparatus. No. 1,011,240; Dec. 12; Sp. p. 1893; Gaz. vol. 173; p. 327.
Piepmeier, Roy L. (See Davis, John H., assignor.)
Pier, Mathias, Schlachtensee, near Berlin, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Producing halogen-oxygen compounds by electrolysis. No. 998,982; July 25; Sp. p. 5241; Gaz. vol. 168; p. 933.
Pierce, Albert L. (See Barnes, Alfred A., assignor.)
Pierce, Arthur J. (See Pierce, Ernest P. and A. J.)
Pierce, Burt N., Indianapolis, Ind. Carbureter. No. 982,297; Jan. 24; Sp. p. 4709; Gaz. vol. 162; p. 814.
Pierce, Burt N., Indianapolis, Ind. Carbureter. No. 1,005,300; Oct. 10; Sp. p. 1593; Gaz. vol. 171; p. 286.
Pierce, David. (See Thompson and Pierce.)
Pierce, Eduard E. (See Jaques, Fernando O., Jr., assignor.)
Pierce, Edwin B., New Brighton, Pa. Book-sewing. No. 997,005; July 4; Sp. p. 884; Gaz. vol. 168; p. 140.
Pierce, Ernest P. and A. J.; said A. J. Pierce assignor to said Ernest P. Pierce, Lorain, Ohio. Knockdown stool. No. 983,458; Feb. 7; Sp. p. 433; Gaz. vol. 163; p. 69.
Pierce, Frank C. (See Bickel and Pierce.)
Pierce, Frank M., Chicago, Ill. Garment-fastener. No. 998,390; July 18; Sp. p. 3917; Gaz. vol. 168; p. 694.
Pierce, Franklin A., Wheeling, W. Va. Train-line-venting valve. No. 983,643; Feb. 7; Sp. p. 829; Gaz. vol. 163; p. 132.
Pierce, Franklin A., Wheeling, W. Va. Train-recording apparatus. No. 995,634; June 20; Sp. p. 3366; Gaz. vol. 167; p. 593.
Pierce, Franklin A., Wheeling, W. Va. Circuit-closer. No. 1,006,005; Oct. 17; Sp. p. 3144; Gaz. vol. 171; p. 565.
Pierce, Franklin A., Wheeling, assignor of one-fifth to J. Gatewood and J. Thonen, one-eighth to W. J. Duffy, McMechen, W. Va., one-eighth to T. Fitzgerald, Baltimore, Md., one-sixteenth to E. Oswald and J. T. Travers, Bellaire, Ohio, one-twentieth to P. Conniff, Wheeling, W. Va., one-sixteenth to J. R. Onderdonk and one-eighth to A. P. Prendergast, Baltimore, Md. Automatic train-stopping device. No. 998,260; July 18; Sp. p. 3600; Gaz. vol. 168; p. 646.
Pierce, George L., Brooklyn, N. Y. Foot-ball. No. 1,002,928; Sept. 12; Sp. p. 1687; Gaz. vol. 170; p. 291.
Pierce, Guy C. (See Hollister, George K., Jr., assignor.)
Pierce, Harold S., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Drive-chain coupling. No. 1,013,054; Dec. 26; Sp. p. 5918; Gaz. vol. 173; p. 1036.
Pierce, Harry, assignor of forty-nine one-hundredths to G. W. Strope, Kansas City, Mo. Spring-tire. No. 998,798; July 25; Sp. p. 4802; Gaz. vol. 168; p. 868.
Pierce, Harry, Kansas City, Mo., assignor, by mesne assignments, to The Cable Company, Chicago, Ill. Tracker-board. (Reissue.) No. 13,345; Dec. 26; Sp. p. 6010; Gaz. vol. 173; p. 1053.
Pierce, Henry H. (See Babst and Pierce.)
Pierce, John D., St. Louis, Mo. Measuring and calculating instrument. No. 990,385; Apr. 25; Sp. p. 4526; Gaz. vol. 165; p. 799.
Pierce, John H., Oakland, Cal. Bed. No. 1,006,785; Oct. 24; Sp. p. 4895; Gaz. vol. 171; p. 869.
Pierce, Jonas J., Jr., Buffalo, N. Y. Rail-fastener. No. 1,010,452; Dec. 5; Sp. p. 95; Gaz. vol. 173; p. 19.
Pierce, Simeon F., assignor to Cream Cone Machine Company, St. Paul, Minn. Pastry-cooking machine. No. 985,204; Feb. 28; Sp. p. 4218; Gaz. vol. 163; p. 765.
Pierce, Simeon F., assignor to Cream Cone Machine Company, St. Paul, Minn. Apparatus for making pastry cornets. No. 1,012,274; Dec. 19; Sp. p. 4223; Gaz. vol. 173; p. 724.
Pierce, Walter H., and C. R. Parker, Syracuse, N. Y. Mechanism for making and breaking electric circuits. No. 1,010,173; Nov. 28; Sp. p. 5549; Gaz. vol. 172; p. 994.
Pierce, William T. (See Kennedy, Samuel G., assignor.)
Pierle, Henry C. (See Groene and Pierle.)
Pierman, Alexander N., Newark, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-reproducer. No. 991,361; May 2; Sp. p. 1148; Gaz. vol. 166; p. 191.
Pierman, Alexander N., Newark, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Sound-reproducer. No. 1,010,311; Nov. 28; Sp. p. 5838; Gaz. vol. 172; p. 1040.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Strip perforating and winding machine. No. 980,997; Jan. 10; Sp. p. 1878; Gaz. vol. 162; p. 312.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Leading attachment for composing-machines. No. 980,998; Jan. 10; Sp. p. 1883; Gaz. vol. 162; p. 313.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Cutter-shaping machine. No. 989,636; Apr. 18; Sp. p. 2885; Gaz. vol. 165; p. 510.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Mold and mold-adjusting mechanism for type-casting machines. No. 989,637; Apr. 18; Sp. p. 2891; Gaz. vol. 165; p. 510.
Pierpont, Frank H., Horley, England, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Type-casting machine. No. 1,008,364; Nov. 14; Sp. p. 1625; Gaz. vol. 172; p. 291.
Pierron, Paul R. (See Côte and Pierron.)
Piersall, Napoleon B. (See Klein and Piersall.)
Pierson, Benjaman, Boulder, Colo. Valve device. No. 1,005,465; Oct. 10; Sp. p. 1947; Gaz. vol. 171; p. 344.
Pierson, Eva. (See Pierson, Theron, assignor.)

Alphabetical list of patentees—Continued.

Pierson, John A., Pigeon Cove, Mass. Portable electric rock-drill. No. 1,011,841; Dec. 12; Sp. p. 3238; Gaz. vol. 173; p. 539.
Pierson, Moses E., assignor to Novelty Incandescent Lamp Company, Emporium, Pa. Incandescent-lamp-stem-sealing machine. No. 1,004,071; Sept. 26; Sp. p. 4164; Gaz. vol. 170; p. 747.
Pierson, Moses E., assignor to Novelty Incandescent Lamp Company, Emporium, Pa. Machine for making filament-supporting stems. No. 1,004,072; Sept. 26; Sp. p. 4173; Gaz. vol. 170; p. 747.
Pierson, Theron, assignor to E. Pierson, Chicago, Ill. Fireless cooker. No. 983,565; Feb. 7; Sp. p. 683; Gaz. vol. 163; p. 106.
Pifer, C. W., *et al.* (See Williams, Walter S., assignor.)
Piggott, George S., assignor of one-tenth to R. D. Read, Chicago, Ill. Space telegraphy. No. 1,006,786; Oct. 24; Sp. p. 4897; Gaz. vol. 171; p. 870.
Piggott, Thomas K., assignor to Acme Combination Rule Company, Puyallup, Wash. Drawing instrument. No. 996,359; June 27; Sp. p. 4983; Gaz. vol. 167; p. 878.
Pike, Edward. (See Nesbit and Pike.)
Pike, Harry W., and R. E. Johnson, Osceola, Nebr. Stabilizing mechanism for flying-machines. No. 1,012,006; Dec. 19; Sp. p. 3628; Gaz. vol. 173; p. 632.
Pike, Harvey A., New York, N. Y. Coffee-pot. No. 992,053; May 9; Sp. p. 2573; Gaz. vol. 166; p. 458.
Pike Manufacturing Company. (See Hayne, Levi, assignor.)
Pike Manufacturing Company. (See Smith, Herbert E., assignor.)
Pike, William H., Jr., South Orange, N. J., assignor, by mesne assignments, to Burroughs Adding Machine Company, Detroit, Mich. Attachment for calculating-machines. No. 1,012,702; Dec. 26; Sp. p. 5107; Gaz. vol. 173; p. 916.
Pike, Willis, Fresno, Cal. Powder-box. No. 1,003,944; Sept. 19; Sp. p. 3845; Gaz. vol. 170; p. 675.
Pikoos, Abraham, Baltimore, Md. Electric socket. No. 1,011,842; Dec. 12; Sp. p. 3242; Gaz. vol. 173; p. 539.
Pilblad, Eric J. (See Wright and Pilblad.)
Pilcher, Benjamin R., Dothan, Ala. Pneumatic water-elevator. No. 1,003,945; Sept. 19; Sp. p. 3846; Gaz. vol. 170; p. 675.
Pilcher, Benjamin R., Dothan, Ala. Pneumatic water-elevator. No. 1,003,946; Sept. 19; Sp. p. 3848; Gaz. vol. 170; p. 675.
Pilcher, James A., Jackson, Ohio. Automatic bit-pitcher. No. 991,362; May 2; Sp. p. 1150; Gaz. vol. 166; p. 192.
Pilcher, Robert H., Decatur, Ill. Railway-crossing. No. 994,689; June 6; Sp. p. 1254; Gaz. vol. 167; p. 203.
Pile, Henry, Portsmouth, assignor of one-third to E. F. Abel, Jr., Norfolk county, and one-third to S. M. Ripley, Portsmouth, Va. Time-check board. No. 996,521; June 27; Sp. p. 5316; Gaz. vol. 167; p. 932.
Piles, Isaac, Yankton, S. D. Legging. No. 981,222; Jan. 10; Sp. p. 2423; Gaz. vol. 162; p. 392.
Pilgrim, Henry E., Hamilton, Ohio. Cushion-fork. No. 989,638; Apr. 18; Sp. p. 2895; Gaz. vol. 165; p. 511.
Pilkington, Charles S. (See Bennett and Pilkington.)
Pilkington, George B., Waterbury, Conn. Transmission-gearing. No. 990,386; Apr. 25; Sp. p. 4531; Gaz. vol. 165; p. 799.
Pilkington, Joseph H., Waterbury, Conn. Hose-supporter loop. No. 1,003,788; Sept. 19; Sp. p. 3493; Gaz. vol. 170; p. 622.
Pill, Victor R., *et al.* (See Pill, William, assignor.)
Pill, William, Cowanporth, England, assignor of one-fourth to C. M. Waldran, Carbon Hill, and one-half to V. R. Pill, Galloway, Ala. Hydraulic coal-breaker. No. 991,017; May 2; Sp. p. 397; Gaz. vol. 166; p. 68.
Pillard, Edward S., Philadelphia, Pa. Door for safes and vaults. No. 992,981; May 23; Sp. p. 4621; Gaz. vol. 166; p. 843.
Pillard, Edward S., Philadelphia, Pa. Doors for safes and vaults. No. 1,001,221; Aug. 22; Sp. p. 4353; Gaz. vol. 169; p. 792.
Pilley Packing & Flue Brush Manufacturing Company. (See Rawson and Schultz, assignors.)
Pillig, John, Amsterdam, N. Y. Rail-joint. No. 994,274; June 6; Sp. p. 358; Gaz. vol. 167; p. 61.
Pilliod Brothers Company, The. (See Pilliod, Henry J., assignor.)
Pilliod, Charles J., Toledo, Ohio. Valve-gear for stationary engines. No. 982,987; Jan. 31; Sp. p. 6165; Gaz. vol. 162; p. 1077.
Pilliod, Charles J., Toledo, Ohio. Automatic governor and reversing-gear. No. 982,988; Jan. 31; Sp. p. 6167; Gaz. vol. 162; p. 1077.
Pilliod, Henry J., Chicago, Ill., assignor to The Pilliod Brothers Company, Toledo, Ohio. Locomotive valve-gear. No. 982,989; Jan. 31; Sp. p. 6171; Gaz. vol. 162; p. 1078.
Pilliod, Henry J., Chicago, Ill., assignor to The Pilliod Brothers Company, Toledo, Ohio. Locomotive valve-gear. No. 982,990; Jan. 31; Sp. p. 6178; Gaz. vol. 162; p. 1078.
Pilliod, Henry J., Chicago, Ill., assignor to The Pilliod Brothers Company, Toledo, Ohio. Locomotive valve-gear. No. 982,991; Jan. 31; Sp. p. 6182; Gaz. vol. 162; p. 1078.
Pillionnel, John E., La Chaux de Fonds, and L. Cherpit, Nyon, Switzerland. Snow-plow. No. 990,002; Apr. 18; Sp. p. 3673; Gaz. vol. 165; p. 636.
Pillow, Benjamin A., assignor of one-half to C. Sims-Bailey, Richmond, Va. Brake for railway-cars. No. 994,657; June 6; Sp. p. 1173; Gaz. vol. 167; p. 192.
Pillow, James G., assignor of one-half to C. F. Freeman, Coleman, Tex. Gin-saw cleaner. No. 988,141; Mar. 28; Sp. p. 5081; Gaz. vol. 164; p. 901.
Pilman, John, Louisville, Ill. Wagon-brake. No. 1,001,163; Aug. 22; Sp. p. 4230; Gaz. vol. 169; p. 774.
Pilon, Alexis, *et al.* (See Chartrand, Jean B., assignor.)
Pinard, John B., J. Cassidy, and R. M. Mellor, Spokane, Wash. Vapor-bath. No. 1,007,603; Oct. 31; Sp. p. 6711; Gaz. vol. 171; p. 1208.
Pinch, William. (See Ralph and Pinch.)
Pinckney, Theophilus, Asheville, N. C. Electric-switch-operating means. No. 981,683; Jan. 17; Sp. p. 3384; Gaz. vol. 162; p. 571.
Pincus, Henry, assignor of one-half to T. Higgins, Albany, N. Y. Fastening device for emergency exit-doors. No. 982,388; Jan. 24; Sp. p. 4890; Gaz. vol. 162; p. 847.
Pindell, John A., Cockeysville, Md. Fruit-picker. No. 1,006,124; Oct. 17; Sp. p. 3414; Gaz. vol. 171; p. 606.
Pinder, Joseph W., Oakland, Cal. Spiral slimer. No. 995,089; June 13; Sp. p. 2187; Gaz. vol. 167; p. 379.
Pinder, Joseph W., Oakland, Cal. Stamp-mill. No. 995,713; June 20; Sp. p. 3527; Gaz. vol. 167; p. 621.
Pinder, Rudolph, assignor of one-half to G. W. Parker, Hudson, Mass. Friction-clutch. No. 1,007,310; Oct. 31; Sp. p. 6066; Gaz. vol. 171; p. 1107.
Pine, George W., Audrian county, Mo. Device for lifting vehicle-bodies. No. 1,012,703; Dec. 26; Sp. p. 5109; Gaz. vol. 173; p. 916.
Pinel, Walter P., Quincy, Mass. Detachable handle for sad-irons. No. 983,312; Feb. 7; Sp. p. 117; Gaz. vol. 163; p. 21.
Pingrey, Albert W., Chico, Cal. Door-jack. No. 985,630; Feb. 28; Sp. p. 5151; Gaz. vol. 163; p. 910.
Pink, John J., Chicago, Ill. Machine for taking and exhibiting pictures. No. 986,857; Mar. 14; Sp. p. 2332; Gaz. vol. 164; p. 404.
Pinkerton, Ervin W., Rochester, N. Y. Guard for machinery. No. 999,464; Aug. 1; Sp. p. 531; Gaz. vol. 169; p. 93.
Pinkerton, William F., Denver, Colo. Stove. No. 985,058; Feb. 21; Sp. p. 3855; Gaz. vol. 163; p. 680.
Pinkham, Charles F., Boston, and W. H. Babb, North Andover, Mass., assignors to American Type Founders Company, Jersey City, N. J. Corner-turning apparatus for box-machines. No. 985,205; Feb. 28; Sp. p. 4219; Gaz. vol. 163; p. 765.
Pinkney, Bryan D., assignor to The Loew Manufacturing Company, Cleveland, Ohio. Pasteurizer. No. 994,192; June 6; Sp. p. 189; Gaz. vol. 167; p. 33.
Pinsuti, Giuseppe F., New York, N. Y. Match-receptacle. No. 994,784; June 13; Sp. p. 1503; Gaz. vol. 167; p. 276.
Pintler, Freeman. (See Warner, John A., assignor.)
Piogran Sales Company, The. (See White and Lett, assignors.)
Piper, Adolph H., Chicago, Ill. Combined dough-proofing apparatus and work-table. No. 990,003; Apr. 18; Sp. p. 3675; Gaz. vol. 165; p. 636.
Piper, Clara F., administratrix. (See Piper, Myron H.)
Piper, Cornelius E. (See Berry, Levi H., assignor.)
Piper, Edwin S., deceased, Bristol, Conn. I. J. Greeno, administratrix. Shears. No. 995,090; June 13; Sp. p. 2191; Gaz. vol. 167; p. 380.
Piper, James J., Centralia, Ill. Wire-cable clamp. No. 982,742; Jan. 24; Sp. p. 5621; Gaz. vol. 162; p. 965.
Piper, Myron H., Walpole, assignor to United Printing Machinery Company, Boston, Mass. Sheet-feeding mechanism. No. 994,193; June 6; Sp. p. 192; Gaz. vol. 167; p. 33.
Piper, Myron H., deceased, Walpole, (C. F. Piper, administratrix,) assignor to United Printing Machinery Company, Boston, Mass. Dusting-roll. No. 1,003,647; Sept. 19; Sp. p. 3182; Gaz. vol. 170; p. 573.
Piper, Virginia W., Jamestown, N. Y. Syringe. No. 987,910; Mar. 28; Sp. p. 4573; Gaz. vol. 164; p. 824.
Pipher, William E. A., assignor of one-fourth to C. A. Sherwood, Parkers Landing, Pa. Well-drilling appliance. No. 1,005,301; Oct. 10; Sp. p. 1596; Gaz. vol. 171; p. 287.
Pipkin, William L., Chicago, Ill. Pulley. No. 992,901; May 23; Sp. p. 4444; Gaz. vol. 166; p. 815.
Pippen, John J., McLaurin, Miss. Saw-gage. No. 1,003,292; Sept. 12; Sp. p. 2431; Gaz. vol. 170; p. 418.
Piquette, Napoleon, Dollar Bay, Mich. Clamping device. No. 991,084; May 2; Sp. p. 533; Gaz. vol. 166; p. 92.
Pirrie, William H., Battersea Park, London, England. Gas cooking-stove and the like. No. 994,533; June 6; Sp. p. 895; Gaz. vol. 167; p. 148.
Pitman, Andrew C. (See Liston and Pitman.)
Pitney, Arthur H., Berwyn, Ill. Decorating means for imitating beamed ceilings. No. 985,367; Feb. 28; Sp. p. 4567; Gaz. vol. 163; p. 819.
Pitt, John W. (See Hoge, Riebe, and Pitt.)
Pitt, Otto J. (See Vandervort, Pitt, and Vandervort.)

Alphabetical list of patentees—Continued.

Pitt, William P., Independence, assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf book. No. 985,282; Feb. 28; Sp. p. 4389; Gaz. vol. 163; p. 792.
Pittelkow, William, assignor, by mesne assignments, to Electric Cleaner Company, Chicago, Ill. Dust-separator. No. 980,832; Jan. 3; Sp. p. 1398; Gaz. vol. 162; p. 224.
Pittler, Wilhelm von, Wilmersdorf, near Berlin, Germany. Rotary engine. No. 988,591; Apr. 4; Sp. p. 654; Gaz. vol. 165; p. 105.
Pittler, Wilhelm von, London, England. Rotary engine. No. 990,163; Apr 18; Sp. p. 3991; Gaz. vol. 165; p. 688.
Pittman, Reinhart W., assignor to R. E. Weldon, New York, N. Y. Attachment for linotype-machines. No. 992,385; May 16; Sp. p. 3363; Gaz. vol. 166; p. 605.
Pittman, William W., Ellisville, Miss. Harrow. No. 1,003,498; Sept. 19; Sp. p. 2847; Gaz. vol. 170; p. 521.
Pitton, James G. (See Lininger and Pitton.)
Pittroff, Adam, Duisburg, Germany. Flexible metal prop. No. 987,397; Mar. 21; Sp. p. 3468; Gaz. vol. 164; p. 620.
Pitts, Alfred M. (See Ahern, William J., assignor.)
Pittsburg Plate Glass Company, The. (See Caspar, Charles J., assignor.)
Pittsburg Water Heater Company. (See Reinecke, John P., assignor.)
Pittsburg Water Heater Company. (See Shook, George A., assignor.)
Pittsburgh Brake Shoe Company. (See Kinzer, John J., assignor.)
Pittsburgh Can Company. (See Russell, George, assignor.)
Pittsburgh Electrolytic Mfg. Co. (See Frazier, George W., assignor.)
Pittsburgh Equipment Company. (See Allison, John, assignor.)
Pittsburgh Equipment Company. (See Pulliam, Oswald S., assignor.)
Pittsburgh Gage & Supply Company. (See Tanner and Saxer, assignors.)
Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)
Pittsburgh Plate Glass Company. (See Voglesong, John W., assignor.)
Pittsburgh Pure Metal Products Company. (See Byrnes, Eugene A., assignor.)
Pittsburgh Spiral Wire Hoop Company. (See Stevens and MacGregor, assignors.)
Pittsburgh Steel Products Co. (See Mogan, Christopher J., assignor.)
Pittsburgh Track Specialty Company. (See Hassell, Gustav A., assignor.)
Pittsfield Spark Coil Company. (See Mueller, Theodor M., assignor.)
Pizzuti, Michele. (See Ferrari and Pizzuti.)
Pizzutiello, Leopoldo, New York, N. Y. Hat-pin. No. 1,009,339; Nov. 21; Sp. p. 3823; Gaz. vol. 172; p. 665.
Place, Philip S., Alfred, N. Y. Axillary draining-tube. No. 995,288; June 13; Sp. p. 2561; Gaz. vol. 167; p. 444.
Pladeck, John H., New York, N. Y. Greenhouse-bench. No. 984,964; Feb. 21; Sp. p. 3669; Gaz. vol. 163; p. 647.
Plagman, Adolph, assignor to White Lily Manufacturing Company, Davenport, Iowa. Gear-casing. No. 998,035; July 18; Sp. p. 3113; Gaz. vol. 168; p. 566.
Plaisted, Albert C., assignor of one-half to O. L. Hazelton, Manchester, N. H. Stone-chisel. No. 1,004,193; Sept. 26; Sp. p. 4460; Gaz. vol. 170; p. 789.
Plaisted, Harold M. (See Walcher and Plaisted.)
Plamondon, Charles A., *et al.* (See Prinz, William H., assignor.)
Plamondon, George, *et al.* (See Prinz, William H., assignor.)
Planche, Ernest J., assignor to Société Anonyme des Forges et Fonderies de Montataire, Paris, France. Preparing bottoms for Thomas converters. No. 1,010,312; Nov. 28; Sp. p. 5841; Gaz. vol. 172; p. 1040.
Planert, Frank, Chicago, Ill. Copy-holder. No. 1,006,270; Oct. 17; Sp. p. 3755; Gaz. vol. 171; p. 660.
Planetary Machinery Company. (See Prindle, Henry U., assignor.)
Planett, John J., Amarillo, Tex. Railway-tie and rail-fastener. No. 986,214; Mar. 7; Sp. p. 949; Gaz. vol. 164; p. 154.
Plank, Edgar H., and D. A. Groff, Lampeter, Pa. Automobile headlight-adjuster. No. 1,002,540; Sept. 5; Sp. p. 806; Gaz. vol. 170; p. 118.
Plank, Edward C., Forrest Junction, Wis. Milk-can. No. 1,001,441; Aug. 22; Sp. p. 4812; Gaz. vol. 169; p. 867.
Plank, J Raymond, Grand Rapids, Mich. Hydraulic motor. No. 1,002,445; Sept. 5; Sp. p. 604; Gaz. vol. 170; p. 86.
Plank, J Raymond, Grand Rapids, Mich. Hydraulic motor. No. 1,002,541; Sept. 5; Sp. p. 808; Gaz. vol. 170; p. 118.
Plant, Oliver W., Cincinnati, Ohio. Camera. No. 1,000,343; Aug. 8; Sp. p. 2383; Gaz. vol. 169; p. 421.
Plant, Stephen C., Brookline, Mass. Tire-remover. No. 990,387; Apr. 25; Sp. p. 4534; Gaz. vol. 165; p. 800.
Plant, Thomas G., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-pincers. No. 1,001,681; Aug. 29; Sp. p. 5300; Gaz. vol. 169; p. 979.
Plantinga, Pierre, Cleveland, Ohio. Device for controlling fluids. No. 991,641; May 9; Sp. p. 1750; Gaz. vol. 166; p. 321.
Plasko, Frank B., Norwalk, Ohio. Car-replacer. No. 983,166; Jan. 31; Sp. p. 6534; Gaz. vol. 162; p. 1136.
Plastow, William A., *et al.* (See Buell, Harry J., assignor.)
Plate, Louis. (See Jack, Robert E., assignor.)
Plato, John B., Denver, Colo. Hitching device. No. 986,591; Mar. 14; Sp. p. 1773; Gaz. vol. 164; p. 314.
Platt Bros. & Co. (See Gregory, James, assignor.)
Platt, Clarence D., Bridgeport, Conn. Electric switch. No. 980,559; Jan. 3; Sp. p. 832; Gaz. vol. 162; p. 134.
Platt, Clarence D., Bridgeport, Conn. Binding-block for terminal wires. No. 999,521; Aug. 1; Sp. p. 650; Gaz. vol. 169; p. 111.
Platt, Clarence D., Bridgeport, Conn. Tension adjustment for pull-switches. No. 1,008,729; Nov. 14; Sp. p. 2497; Gaz. vol. 172; p. 420.
Platt, Clarence D., Bridgeport, Conn. Incandescent-lamp socket. No. 1,009,565; Nov. 21; Sp. p. 4327; Gaz. vol. 172; p. 744.
Platt, Clarence D., Bridgeport, Conn. Chain-guide for pull-sockets. No. 1,009,566; Nov. 21; Sp. p. 4330; Gaz. vol. 172; p. 745.
Platt, Clarence D., Bridgeport, Conn. Flush attachment-plug receptacle. No. 1,012,150; Dec. 19; Sp. p. 3948; Gaz. vol. 173; p. 682.
Platt, Edwin H., *et al.* (See Mullineaux, Edgar J., assignor.)
Platt, Henry, Suffern, N. Y. Trigging device. No. 995,714; June 20; Sp. p. 3529; Gaz. vol. 167; p. 622.
Platt, Henry, Suffern, N. Y. Support for plumb-rules. No. 1,003,499; Sept. 19; Sp. p. 2849; Gaz. vol. 170; p. 521.
Platt, Henry, Suffern, N. Y. Plumb-rule. No. 1,004,194; Sept. 26; Sp. p. 4462; Gaz. vol. 170; p. 790.
Platt, John W., and H. F. Rodemeyer, assignors of one-half to Sterling Manufacturing Company, Sterling, Ill., and one-half to The Janesville Machine Company, Janesville, Wis. Transport-truck for disk harrows. No. 1,003,648; Sept. 19; Sp. p. 3184; Gaz. vol. 170; p. 573.
Platt, Wilber O., assignor to Joseph Reid Gas Engine Company, Oil City, Pa. Governing-valve for gas-engines. No. 984,023; Feb. 14; Sp. p. 1690; Gaz. vol. 163; p. 291.
Platz, Harley C. (See Horrocks and Millar, assignors.)
Plaut, Antoine P., Venice, Cal. Valve mechanism for internal-combustion engines. No. 1,006,677; Oct. 24; Sp. p. 4670; Gaz. vol. 171; p. 832.
Plaut, Sally, Dusseldorf, Germany. Humming-top. No. 1,004,814; Oct. 3; Sp. p. 571; Gaz. vol. 171; p. 94.
Player, John, River Forest, Ill. Method and apparatus for drawing sheet-glass. No. 991,642; May 9; Sp. p. 1751; Gaz. vol. 166; p. 321.
Playfair, James. (See Moloney, William M., assignor.)
Pleasant, Vernon S., Parchman, Miss. Baling-press. No. 1,006,593; Oct. 24; Sp. p. 4511; Gaz. vol. 171; p. 804.
Plecher, Andrew, and F. Kaspar, Las Animas, Colo. Sugar-washing machine. No. 995,900; June 20; Sp. p. 3953; Gaz. vol. 167; p. 685.
Pledger, William A., Jr., and A. L. Campbell, Geneva, Ala. Pivoted plow standard and brace. No. 987,487; Mar. 21; Sp. p. 3651; Gaz. vol. 164; p. 650.
Plein, Louis, Chicago, Ill. Carbureter. No. 983,836; Feb. 7; Sp. p. 1249; Gaz. vol. 163; p. 199.
Pleins, Leo H., assignor to James B. Clow & Sons, Chicago, Ill. Plumbing-fixture No. 995,368; June 13; Sp. p. 2765; Gaz. vol. 167; p. 471.
Pletsch, Adam, Watrous, Saskatchewan, Canada. Game-register. No. 1,009,690; Nov. 21; Sp. p. 4552; Gaz. vol. 172; p. 784.
Pletsch, Henry. (See Judd and Pletsch.)
Pletsch, Henry, assignor to Judd Laundry Machine Company, Chicago, Ill. Tub-cover fastener. No. 985,933; Mar. 7; Sp. p. 383; Gaz. vol. 164; p. 60.
Pletsch, Henry, assignor to Judd Laundry Machine Company, Chicago, Ill. Spring. No. 991,539; May 9; Sp. p. 1529; Gaz. vol. 166; p. 284.
Pletscher, John C., Baltimore, Md. Corn-knife. No. 994,534; June 6; Sp. p. 897; Gaz. vol. 167; p. 149.
Pletz, Charles A., assignor to The Miehle Printing Press and Manufacturing Company, Chicago, Ill. Registering and counting machine. No. 994,602; June 6; Sp. p. 1035; Gaz. vol. 167; p. 173.
Plewes, John, Kimberly, Ontario, Canada. Propelling-wheel. No. 995,562; June 20; Sp. p. 3190; Gaz. vol. 167; p. 567.
Plice, Thomas V., assignor to W. V. B. Topping, Ashland, Ohio. Door-supporting structure. No. 992,588; May 16; Sp. p. 3794; Gaz. vol. 166; p. 677.
Plimpton, Arthur L., Boston, Mass. Railway-track. No. 995,369; June 13; Sp. p. 2768; Gaz. vol. 167; p. 472.
Plimpton, Herbert M. (See Lewis, Willard I., assignor.)
Plopa, Charley. (See Popp and Plopa.)
Ploughe, Isaac J., Plainville, assignor of one-half to J. W. Kuhlman, Hull, Ill. Brooder. No. 1,009,567; Nov. 21; Sp. p. 4332; Gaz. vol. 172; p. 745.
Plue, William D. (See Peterson and Plue.)

Alphabetical list of patentees—Continued.

Plue, William D., Rainier, Oreg. Hinge for silo-doors. No. 1,003,065; Sept. 12; Sp. p. 1940; Gaz. vol. 170; p. 335.
Plumb, Frederic W., assignor to The Sutro Bros. Braid Co., New York, N. Y. Braiding-machine. No. 1,005,574; Oct. 10; Sp. p. 2223; Gaz. vol. 171; p. 383.
Plummer, George C., Ardmore, assignor to Main Belting Company, Philadelphia, Pa. Ammunition-conveyer. No. 986,753; Mar. 14; Sp. p. 2113; Gaz. vol. 164; p. 369.
Plummer, Walter A. (See Thorning, Edwin B., assignor.)
Plummer, William S., St. Louis, Mo. Traction-wheel. No. 1,003,500; Sept. 19; Sp. p. 2851; Gaz. vol. 170; p. 521.
Plumtree, Oliver L. (See Munn and Plumtree.)
Plunkett, Charles L., New York, assignor to American Couch Company, Brooklyn, N. Y. Couch-bed. No. 984,600; Feb. 21; Sp. p. 2930; Gaz. vol. 163; p. 521.
Plunkett, Charles L., New York, assignor to American Couch Company, Brooklyn, N. Y. Couch-bed. No. 984,601; Feb. 21; Sp. p. 2935; Gaz. vol. 163; p. 522.
Plunkett, Charles L., New York, assignor to American Couch Company, Brooklyn, N. Y. Couch-bed. No. 984,602; Feb. 21; Sp. p. 2939; Gaz. vol. 163; p. 522.
Plunkett, Charles L., New York, assignor to American Couch Company, Brooklyn, N. Y. Couch-bed. No. 984,698; Feb. 21; Sp. p. 3145; Gaz. vol. 163; p. 557.
Plunkett, Charles L., New York, assignor to American Couch Company, Brooklyn, N. Y. Couch-bed. No. 984,699; Feb. 21; Sp. p. 3148; Gaz. vol. 163; p. 557.
Plunkett, Charles L., assignor to American Couch Company, Brooklyn, N. Y. Couch-bed. No. 986,406; Mar. 7; Sp. p. 1366; Gaz. vol. 164; p. 220.
Plural System Ventilator Co., The. (See Mies, Frank P., assignor.)
Plymouth Rubber Company. (See Thoma, Andrew, assignor.)
Plympton, Frederic K., Wellesley, assignor to Plympton Manufacturing Company, Boston, Mass. Tube package of bottle-caps, &c. No. 1,000,970; Aug. 15; Sp. p. 3772; Gaz. vol. 169; p. 673.
Plympton Manufacturing Company. (See Plympton, Frederic K., assignor.)
Pneumatic Cushion Company, The. (See Gruss, Lucien R., assignor.)
Pneumatic Scale Corporation Limited. (See Cleaves, William S., assignor.)
Pneumatic Scale Corporation Limited. (See Joplin, William A., assignor.)
Pneumatic Scale Corporation Limited. (See Robinson, George A., assignor.)
Pneumelectric Machine Company, The. (See Filsinger, John A., assignor.)
Poalk, James L., Jenkintown, Pa. Hook and eye. No. 983,167; Jan. 31; Sp. p. 6535; Gaz. vol. 162; p. 1136.
Poché, Joseph A., New Orleans, La. Valve-starter alarm. No. 992,139; May 9; Sp. p. 2754; Gaz. vol. 166; p. 487.
Poché, Samuel G., Bellerose, La. Regenerator. No. 1,004,901; Oct. 3; Sp. p. 779; Gaz. vol. 171; p. 125.
Pocock, Henry, London, Ontario, Canada. Concrete-mixer. No. 1,005,302; Oct. 10; Sp. p. 1597; Gaz. vol. 171; p. 287.
Pocock, William F., Waverly, Kans. Oil-burner. No. 1,008,060; Nov. 7; Sp. p. 891; Gaz. vol. 172; p. 143.
Podeyn, Henry F. M., Brooklyn, N. Y., assignor to Safety Power Transmission Company. Shaft-protector. No. 1,012,909; Dec. 26; Sp. p. 5588; Gaz. vol. 173; p. 986.
Podhajský, Otakar, Warren, Pa. Controlling device for internal-combustion engines. No. 986,754; Mar. 14; Sp. p. 2117; Gaz. vol. 164; p. 370.
Podlešák, Emil, Tiffin, Ohio. Speed-governor. No. 1,003,501; Sept. 19; Sp. p. 2853; Gaz. vol. 170; p. 522.
Podlešák, Henry J., Chicago, Ill. Internal-combustion engine. No. 985,703; Feb. 28; Sp. p. 5339; Gaz. vol. 163; p. 936.
Podlešák, Henry J., Chicago, Ill. Ignition system. No. 1,006,678; Oct. 24; Sp. p. 4674; Gaz. vol. 171; p. 833.
Podlešák, Henry J., assignor to Deere & Company, Moline, Ill. Harvester-reel support. No. 1,000,552; Aug. 15; Sp. p. 2872; Gaz. vol. 169; p. 527.
Podlešák, Henry J., assignor to Deere and Company, Moline, Ill. Grain-divider for harvesters. No. 1,008,283; Nov. 7; Sp. p. 1378; Gaz. vol. 172; p. 224.
Podlešák, Henry J., Chicago, Ill., and T. E. Podlesak, Morristown, N. J. Inductor-generator for ignition purposes. No. 1,003,649; Sept. 19; Sp. p. 3185; Gaz. vol. 170; p. 574.
Podlesak, Tesla E. (See Podlešák, Henry J. and T. E.)
Podmore, Arthur J., Camden, N. J., assignor of one-half to T. M. Dobbins, Philadelphia, Pa. Lavatory attachment. No. 981,877; Jan. 17; Sp. p. 3784; Gaz. vol. 162; p. 639.
Poe, George, assignor of one-sixteenth to R. F. McLaughlin, Norfolk, one-fourth to H. L. Ostrander, South Norfolk, one-sixteenth to W. C. Bohlken, and one-eighth to W. H. Venable, Norfolk, Va. Safety breathing-armor. No. 996,135; June 27; Sp. p. 4432; Gaz. vol. 167; p. 802.
Poelloth, George, New York, N. Y. Fire-kindler. No. 996,277; June 27; Sp. p. 4789; Gaz. vol. 167; p. 849.
Poetto, Pierre, Paris, France. Pneumatic clock. No. 998,923; July 25; Sp. p. 5087; Gaz. vol. 168; p. 913.
Pogolski, Nicolas, Wilkes-Barre, Pa. Indicating and recording the aiming of guns. (Reissue.) No. 13,310; Nov. 7; Sp. p. 1419; Gaz. vol. 172; p. 231.
Pogue, Joseph W., Sierra Madre, assignor to Seaboard Metal Works, Los Angeles, Cal. Crane. No. 997,934; July 11; Sp. p. 2862; Gaz. vol. 168; p. 488.
Pohl, Frank G., Irvington, N. J. Sink and similar wash-basin. No. 983,644; Feb. 7; Sp. p. 830; Gaz. vol. 163; p. 133.
Pohl, John, Bloomfield, N. J. Means for balancing centrifugal bowls. No. 989,043; Apr. 11; Sp. p. 1578; Gaz. vol. 165; p. 277.
Pohlmann, Adolph J., Pittsburg, Pa. Coin-controlled mechanism for mechanical playing instruments. No. 990,667; Apr. 25; Sp. p. 5191; Gaz. vol. 165; p. 895.
Pohlmann, Frederick L. (See Huber, Edward R., assignor.)
Pohlmann, Fritz, assignor to Hydorion Internat Waschereі-Maschinen-Gesellschaft, Zurich, Switzerland. Washing-machine. No. 1,002,929; Sept. 12; Sp. p. 1687; Gaz. vol. 170; p. 291.
Pohlmann, Henry, New York, N. Y. Piano-casing. No. 990,062; Apr. 18; Sp. p. 3785; Gaz. vol. 165; p. 655.
Pohoralek, Johannes, New York, N. Y. Sheet-holder. No. 999,862; Aug. 8; Sp. p. 1330; Gaz. vol. 169; p. 256.
Poinan, Francis J., assignor of one-half to F. Decker and one-fourth to J. B. Brewer, Rochester, N. Y. Signaling device. No. 990,771; Apr. 25; Sp. p. 5401; Gaz. vol. 165; p. 931.
Poinan, Francis J., assignor of one-half to F. Decker and one-fourth to J. B. Brewer, Rochester, N. Y. Signaling device. No. 1,007,235; Oct. 31; Sp. p. 5925; Gaz. vol. 171; p. 1081.
Poindexter, Samuel F. (See Farmer, William, assignor.)
Poinsett, Joseph L., Newport, Ky. Burglar-alarm. No. 988,026; Mar. 28; Sp. p. 4856; Gaz. vol. 164; p. 864.
Poirier, Joseph A., Woonsocket, R. I. Binding-paper-feed mechanism. No. 1,007,236; Oct. 31; Sp. p. 5926; Gaz. vol. 171; p. 1081.
Pokorney, John J., New York, N. Y. Detachable brush. No. 993,617; May 30; Sp. p. 5989; Gaz. vol. 166; p. 1089.
Polar Ice Machine Company. (See Jewell, Omar H., assignor.)
Polaski, John J., assignor to Chicago Laundry Machinery Company, Chicago, Ill. Collar shaping and edging machine. No. 987,741; Mar. 28; Sp. p. 4189; Gaz. vol. 164; p. 765.
Polberg, Joseph H., Glasgow, Mont. Camera-shutter. No. 992,054; May 9; Sp. p. 2576; Gaz. vol. 166; p. 458.
Pole, Jacob, F. Witting, and F. Freyberg, Meridale, N. Y. Smoke-cap. No. 1,005,748; Oct. 10; Sp. p. 2574; Gaz. vol. 171; p. 443.
Polglase, William, and F. Bates, Great Falls, Mont. Hydraulic system of ore separation. No. 1,012,151; Dec. 19; Sp. p. 3950; Gaz. vol. 173; p. 682.
Polikier, Heinrich, Leipzig, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Monoazo dye for wool. No. 1,003,293; Sept. 12; Sp. p. 2432; Gaz. vol. 170; p. 419.
Poling, Craig, Nebraska City, Nebr., assignor of one-half to F. M. Neville. Solid-joint, cement, reinforced pipe. No. 984,847; Feb. 21; Sp. p. 3448; Gaz. vol. 163; p. 609.
Polk, Charles F. (See Carter, Ezra W., assignor.)
Polk, John L., Troy, N. Y. Automatic switch. No. 1,007,386; Oct. 31; Sp. p. 6235; Gaz. vol. 171; p. 1134.
Polk, Melnotte G., Brooklyn, N. Y. Collar attachment. No. 986,755; Mar. 14; Sp. p. 2120; Gaz. vol. 164; p. 370.
Pollard-Alling Manufacturing Company. (See Crane, Walter E., assignor.)
Pollard, Earle R., Los Angeles, Cal. Reinforced-concrete railway-tie and rail-securing means. No. 1,012,152; Dec. 19; Sp. p. 3953; Gaz. vol. 173; p. 683.
Pollard, Edward T., assignor to The Pollard Non Tie Hat Shape Machines Limited, London, England. Shaping-machine for hats. No. 988,592; Apr. 4; Sp. p. 657; Gaz. vol. 165; p. 105.
Pollard, Edwin, Eaglehurst, Douglas, Isle of Man, England. Stove for heating water or generating steam. No. 1,003,947; Sept. 19; Sp. p. 3849; Gaz. vol. 170; p. 676.
Pollard, Frédéric A., Paris, France. Automatic regulator for refrigerating systems. No. 990,772; Apr. 25; Sp. p. 5402; Gaz. vol. 165; p. 932.
Pollard Non Tie Hat Shape Machines Limited. (See Pollard, Edward T., assignor.)
Pollitt, Albert J., Winnipeg, Manitoba, Canada. Hat-pin. No. 998,799; July 25; Sp. p. 4803; Gaz. vol. 168; p. 868.
Pollock, Alexander J., St. Louis, Mo. Clasp or holder. No. 982,298; Jan. 24; Sp. p. 4711; Gaz. vol. 162; p. 814.
Pollock, Charles N., Corinth, Miss. Wrench. No. 988,142; Mar. 28; Sp. p. 5083; Gaz. vol. 164; p. 902.
Pollock, Charles V., Madison, Wis. Engine-cranking device. No. 986,311; Mar. 7; Sp. p. 1156; Gaz. vol. 164; p. 186.
Pollock, Charles V., Madison, Wis. Gas-mixer. No. 996,136; June 27; Sp. p. 4434; Gaz. vol. 167; p. 802.
Pollock, James, New York, N. Y. Mining-tool. No. 981,306; Jan. 10; Sp. p. 2598; Gaz. vol. 162; p. 423.

Alphabetical list of patentees—Continued.

Pollock, William, and E. S. Ling, Newmilns, Scotland. Stop-motion for looms. No. 986,215; Mar. 7; Sp. p. 950; Gaz. vol. 164; p. 155.
Polnisch, Paul, assignor to W. C. Schwebel, Philadelphia, Pa. Bottle washing and rinsing machine. No. 1,012,570; Dec. 19; Sp. p. 4812; Gaz. vol. 173; p. 826.
Polo, Joseph B. (See White and Polo.)
Polsen, Samuel D., Bridgeport, Conn. Lock. No. 991,363; May 2; Sp. p. 1152; Gaz. vol. 166; p. 192.
Polson, H. O., *et al.* (See Schuler, Joseph, assignor.)
Polster, Hermann, and A. Lang, Plauen, Germany. Spooling-machine. No. 1,011,241; Dec. 12; Sp. p. 1896; Gaz. vol. 173; p. 327.
Polverino, Giuseppe, New York, N. Y. Hinge. No. 1,010,949; Dec. 5; Sp. p. 1218; Gaz. vol. 173; p. 192.
Polyacsko, Paul, East Toledo, Ohio. Cuspidor. No. 1,007,484; Oct. 31; Sp. p. 6433; Gaz. vol. 171; p. 1168.
Polygraph Duplicating Typewriter Company. (See Fanslow, Benjamin O., assignor.)
Pomerantz, Isidor, assignor to W. Masters, Kansas City, Mo. Window-ventilator. No. 992,055; May 9; Sp. p. 2580; Gaz. vol. 166; p. 459.
Pomerantz, Isidor, assignor to W. Masters, Kansas City, Mo. Window-ventilator. No. 1,009,173; Nov. 21; Sp. p. 3419; Gaz. vol. 172; p. 605.
Pomeroy, Frederick H., assignor to Safety Gaslighter Company, Haverhill, Mass. Gas-lighter. No. 1,011,643; Dec. 12; Sp. p. 2840; Gaz. vol. 173; p. 473.
Pomeroy, James B. and J., East St. Kilda, Victoria, Australia. Furnace. No. 1,004,073; Sept. 26; Sp. p. 4179; Gaz. vol. 170; p. 748.
Pomeroy, John. (See Pomeroy, James B. and J.)
Pomeroy, John, West Melbourne, Victoria, Australia. Steam-boiler furnace. No. 991,885; May 9; Sp. p. 2258; Gaz. vol. 166; p. 402.
Pomeroy, Silas H., New Rochelle, N. Y. Fireproof window. No. 999,254; Aug. 1; Sp. p. 124; Gaz. vol. 169; p. 23.
Pommer, Fred H., Minneapolis, Minn. Spring-cushion fork structure for motor-cycles. No. 980,999; Jan. 10; Sp. p. 1890; Gaz. vol. 162; p. 313.
Pommier, Charles, Passaic, N. J. Shuttle. No. 1,000,625; Aug. 15; Sp. p. 3054; Gaz. vol. 169; p. 555.
Pomraining, Joseph W., *et al.* (See Matchett, Winfield L., assignor.)
Poncet, François A., Paris, France. Casting-machine for siphon-heads. No. 1,010,313; Nov. 28; Sp. p. 5842; Gaz. vol. 172; p. 1040.
Pond Edgar F., South Milford, Mass. Lawn-mower. No. 981,684; Jan. 17; Sp. p. 3386; Gaz. vol. 162; p. 572.
Pongo, Sigmund, New York, N. Y. Amusement apparatus. No. 995,175; June 13; Sp. p. 2354; Gaz. vol. 167; p. 407.
Pongo, Sigmund, New York, N. Y. Rocking-horse. No. 1,012,275; Dec. 19; Sp. p. 4227; Gaz. vol. 173; p. 725.
Ponkey, Albert M., assignor of one-half to C. A. Endriss, Detroit, Mich. Nut-lock. No. 985,059; Feb. 21; Sp. p. 3858; Gaz. vol. 163; p. 681.
Ponninghaus, Wilhelm B. D., Melbourne, Victoria, Australia. Appliance for feeding boilers. No. 995,901; June 20; Sp. p. 3955; Gaz. vol. 167; p. 686.
Ponninghaus, Wilhelm B. D., Prahran, Victoria, assignor to H. McMurdie, Windsor, Victoria, Australia. Appliance for feeding boilers. No. 992,243; May 16; Sp. p. 3012; Gaz. vol. 166; p. 555.
Pons, Arthur A., Brooklyn, N. Y. Punching-machine. No. 1,007,311; Oct. 31; Sp. p. 6069; Gaz. vol. 171; p. 1107.
Pons, Arthur A., New York, N. Y. Game apparatus. No. 1,011,644; Dec. 12; Sp. p. 2842; Gaz. vol. 173; p. 474.
Pons, Arthur A., New York, N. Y., assignor to Pons Athletic Supply Company. Exercising apparatus. No. 1,010,796; Dec. 5; Sp. p. 884; Gaz. vol. 173; p. 138.
Pons Athletic Supply Company. (See Pons, Arthur A., assignor.)
Pontbriand, Gilbert, West Warren, Mass. Oil-burner. No. 990,164; Apr. 18; Sp. p. 3992; Gaz. vol. 165; p. 689.
Ponten, Anders, Berkeley, Cal., assignor to California Gold Saving Machine Company. Ore-feeder for separating-machines. No. 990,773; Apr. 25; Sp. p. 5406; Gaz. vol. 165; p. 932.
Pool, Clark H., New York, N. Y., assignor to International Electric Protection Company. Thermostatic alarm. No. 983,861; Feb. 7; Sp. p. 1301; Gaz. vol. 163; p. 207.
Pool, Clark H., New York, N. Y., assignor to International Electric Protection Company. Electrical signaling and alarm apparatus. No. 984,154; Feb. 14; Sp. p. 1949; Gaz. vol. 163; p. 334.
Pool, Edgar H., Yorkville, Ill. Grain-weighing machine. No. 999,863; Aug. 8; Sp. p. 1331; Gaz. vol. 169; p. 257.
Pool, Elmer C., New Castle, Pa., assignor to Toledo Computing Scale Company, Newark, N. J. Scale. No. 982,865; Jan. 31; Sp. p. 5911; Gaz. vol. 162; p. 1037.
Pool, James P., Brooklyn, N. Y. Making ice and generating power. No. 989,044; Apr. 11; Sp. p. 1580; Gaz. vol. 165; p. 277.
Poole, Alfred W., Ozark, Ark. Peanut-whipper. No. 995,176; June 13; Sp. p. 2355; Gaz. vol. 167; p. 408.
Poole, Alfred W., Ozark, Ark. Plow. No. 995,177; June 13; Sp. p. 2356; Gaz. vol. 167; p. 408.
Poole, Arthur F., Chicago, Ill. Frequency-meter. No. 1,003,502; Sept. 19; Sp. p. 2856; Gaz. vol. 170; p. 522.
Poole, Frederick, Jewell, Kans. Rail-joint. No. 991,365; May 2; Sp. p. 1154; Gaz. vol. 166; p. 193.
Poole, Frederick A., Chicago, Ill. Composite mounting-board for electrotypes and other printing-plates. No. 995,715; June 20; Sp. p. 3531; Gaz. vol. 167; p. 622.
Poole, John H., Brockton, Mass., assignor to Brockton Mowing Machine Cutter Bar Company. Cutter-bar for mowing-machines, &c. No. 994,478; June 6; Sp. p. 770; Gaz. vol. 167; p. 131.
Poole, Samuel S., Albany, N. Y. Tube-cleaner. No. 997,935; July 11; Sp. p. 2865; Gaz. vol. 168; p. 489.
Pooley Furniture Company. (See Maher, John, assignor.)
Pooley, Speero, Chicago, Ill. Confectionery-machine. No. 1,010,174; Nov. 28; Sp. p. 5550; Gaz. vol. 172; p. 994.
Pooley, Speero, Chicago, Ill. Confectionery machinery. No. 1,010,175; Nov. 28; Sp. p. 5555; Gaz. vol. 172; p. 995.
Poor, Charles O., assignor to General Railway Signal Company, Rochester, N. Y. Electrical relay. No. 986,643; Mar. 14; Sp. p. 1890; Gaz. vol. 164; p. 334.
Poor, M. A., *et al.* (See Spinks, Charles C., assignor.)
Pope, Alice A., (now by marriage A. A. Walling,) Vivian, La. Post-hole digger. No. 992,120; May 9; Sp. p. 2715; Gaz. vol. 166; p. 480.
Pope, Arthur W. (See Ten Eyck, Frank E., assignor.)
Pope, Charles E., Pittsburg, Pa. Coke-quenching and coke-handling apparatus. No. 984,700; Feb. 21; Sp. p. 3154; Gaz. vol. 163; p. 558.
Pope, Charles E., assignor of three-fifths to Japanese Tissue Mills, Holyoke, Mass. Feeding and drying apparatus for paper-machines. No. 992,688; May 16; Sp. p. 3975; Gaz. vol. 166; p. 709.
Pope, Edwin, Quebec, Quebec, Canada. Electric signaling apparatus. No. 989,799; Apr. 18; Sp. p. 3240; Gaz. vol. 165; p. 566.
Pope, Frank, Kankakee, Ill. Massage apparatus. No. 1,004,300; Sept. 26; Sp. p. 4665; Gaz. vol. 170; p. 826.
Pope, Frank G., Mansfield, Mass. Package-carrier. No. 1,000,118; Aug. 8; Sp. p. 1912; Gaz. vol. 169; p. 345.
Pope, Frederick, Mount Pleasant, Ga., assignor to Southern Manufacturing Company, Pittsburg, Pa. Apparatus for extracting products from wood. No. 982,631; Jan. 24; Sp. p. 5387; Gaz. vol. 162; p. 929.
Pope, Henry F., Cleveland, Ohio. Radial-draft gear. No. 1,013,055; Dec. 26; Sp. p. 5919; Gaz. vol. 173; p. 1036.
Pope, Henry F., assignor to The National Malleable Castings Company, Cleveland, Ohio. Radial-draft gear. No. 1,000,292; Aug. 8; Sp. p. 2282; Gaz. vol. 169; p. 404.
Pope, Henry F., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,011,843; Dec. 12; Sp. p. 3243; Gaz. vol. 173; p. 540.
Pope, James B., San Francisco, Cal. Adjustable rail-fastener. No. 1,007,796; Nov. 7; Sp. p. 336; Gaz. vol. 172; p. 52.
Pope, Joseph H., Brockton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Skiving-machine. No. 1,001,073; Aug. 22; Sp. p. 4062; Gaz. vol. 169; p. 746.
Pope, John M., Baltimore, Md. Book. No. 1,012,429; Dec. 19; Sp. p. 4527; Gaz. vol. 173; p. 775.
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Nail-assorting machine. No. 1,005,303; Oct. 10; Sp. p. 1600; Gaz. vol. 171; p. 287.
Pope, Joseph H., South Hamilton, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Compressing-machine. No. 1,012,007; Dec. 19; Sp. p. 3630; Gaz. vol. 173; p. 632.
Pope, Joseph H., Brockton, and A. D. Elliott, Lawrence, Mass., assignors, by mesne assignments, to United Shoe Machinery Company. Heel-attaching machine. No. 1,000,119; Aug. 8; Sp. p. 1914; Gaz. vol. 169; p. 345.
Pope, M. J., *et al.* (See Johnson, Edwin E., assignor.)
Pope Manufacturing Company, The. (See Fluharty, Allan M., assignor.)
Pope, Theodore A., *et al.* (See Barber, Johnson N., assignor.)
Pope, Thomas E., Alameda, assignor to Lourey-Pope Manufacturing Company, San Francisco, Cal. Expansible bit. No. 988,143; Mar. 28; Sp. p. 5085; Gaz. vol. 164; p. 902.
Popiel, Jan, and J. Urbanski, assignors of one-third to A. Berowski, Detroit, Mich. Horseshoe. No. 999,255; Aug. 1; Sp. p. 126; Gaz. vol. 169; p. 23.
Popkess, Michael A., Kansas City, Mo. Surfacing material and producing the same. No. 1,008,433; Nov. 14; Sp. p. 1813; Gaz. vol. 172; p. 314.
Popkess, Michael A., Kansas City, Mo., assignor to Bituminized Road Company, Phoenix, Ariz. Making roadways, railway-beds, pavements, and the like. No. 981,685; Jan. 17; Sp. p. 3387; Gaz. vol. 162; p. 572.
Popkin, Morris, Malden, Mass. Gas-valve. No. 984,701; Feb. 21; Sp. p. 3155; Gaz. vol. 163; p. 558.
Popky, Samuel, Wilkes-Barre, Pa. Extending auger. No. 1,010,314; Nov. 28; Sp. p. 5844; Gaz. vol. 172; p. 1041.
Popp, John, and C. Plopa, Portage, Pa. Nut-lock. No. 983,928; Feb. 14; Sp. p. 1474; Gaz. vol. 163; p. 260.
Popp, Jonas L. T. (See Stockel and Popp.)
Popp, Leonard, Cincinnati, Ohio. Safety gas-cock. No. 993,714; May 30; Sp. p. 6215; Gaz. vol. 166; p. 1123.
Popp, Victor. (See Juillac, Alban F., assignor.)

Alphabetical list of patentees—Continued.

Popp, Victor, and A. Minet, Paris, France; said Minet assignor to said Popp. Continuously-operating high-temperature resistance-furnace. No. 1,003,789; Sept. 19; Sp. p. 3494; Gaz. vol. 170; p. 622.
Poppe, Leopold, Berlin, Germany. Apparatus for regrinding and polishing perforated diamonds. No. 983,929; Feb. 14; Sp. p. 1475; Gaz. vol. 163; p. 260.
Poppe, Peter A., Coventry, England. Carbureter for internal-combustion engines. No. 1,007,729; Nov. 7; Sp. p. 166; Gaz. vol. 172; p. 27.
Poppendieck, William, Carlstadt, N. J., assignor of one-half to J. E. Simpson, Brooklyn, N. Y. Christmas-tree stand. No. 982,866; Jan. 31; Sp. p. 5913; Gaz. vol. 162; p. 1038.
Poppenhusen, Herman A., Evanston, Ill. Furnace. No. 988,027; Mar. 28; Sp. p. 4859; Gaz. vol. 164; p. 864.
Poppenhusen, Herman A., Evanston, Ill. Steam-boiler furnace. No. 996,939; July 4; Sp. p. 709; Gaz. vol. 168; p. 116.
Poppenhusen, Herman A., Evanston, Ill. Traveling-grate furnace. No. 1,003,503; Sept. 19; Sp. p. 2861; Gaz. vol. 170; p. 523.
Poppenhusen, Herman A., Evanston, and J. Harrington, Riverside, Ill. Furnace. No. 987,911; Mar. 28; Sp. p. 4574; Gaz. vol. 164; p. 824.
Popper & Company. (See Zollinger, Adalbert, assignor.)
Pordon, Ermenegildo, and M. Pasquarelli, Alameda, Cal. Gun. No. 1,003,790; Sept. 19; Sp. p. 3495; Gaz. vol. 170; p. 622.
Porges, Philipp, Königsfeld, near Brünn, Austria-Hungary. Still for use with a high vacuum. No. 1,011,079; Dec. 5; Sp. p. 1488; Gaz. vol. 173; p. 236.
Porteous, James, Fresno, Cal. Revolving harrow. No. 982,091; Jan. 17; Sp. p. 4282; Gaz. vol. 162; p. 713.
Porteous, James, Fresno, Cal. Vineyard and orchard truck. No. 995,716; June 20; Sp. p. 3533; Gaz. vol. 167; p. 623.
Porteous, James, Fresno, Cal. Reversible bearing for tree-plows. No. 999,864; Aug. 8; Sp. p. 1334; Gaz. vol. 169; p. 257.
Porter, Albert M., Amsterdam, Mo., assignor of one-half to J. W. Porter, La Cygne, Kans. Mail-bag catcher and deliverer. No. 995,563; June 20; Sp. p. 3192; Gaz. vol. 167; p. 567.
Porter, Alden W., Ticonderoga, N. Y. Exhaust-muffler. No. 1,004,195; Sept. 26; Sp. p. 4466; Gaz. vol. 170; p. 790.
Porter, Alfred H., Monmouth Beach, N. J. Game apparatus. No. 983,250; Jan. 31; Sp. p. 6720; Gaz. vol. 162; p. 1165.
Porter, Archibald G. (See Porter, Daniel R., assignor.)
Porter, Arthur H. (See Stockton and Porter.)
Porter, Arthur W., Rockingham, N. C. Cotton-sweep. No. 1,001,164; Aug. 22; Sp. p. 4231; Gaz. vol. 169; p. 774.
Porter, Charles. (See Middleton and Porter.)
Porter, Charles T. (See Wallace, Porter, and Dillon.)
Porter, Daniel R., Everett, assignor to A. G. Porter, Revere, Mass. Bitless guiding-bridle. No. 1,008,365; Nov. 14; Sp. p. 1629; Gaz. vol. 172; p. 292.
Porter, Edmund C., Lewistown, Ill. Bee-escape. No. 987,256; Mar. 21; Sp. p. 3160; Gaz. vol. 164; p. 572.
Porter, Edwin E., Wooster, Ohio. Friction-clutch. No. 981,000; Jan. 10; Sp. p. 1892; Gaz. vol. 162; p. 313.
Porter, Edwin E., Wooster, Ohio. Pulverizing-roll. No. 981,001; Jan. 10; Sp. p. 1893; Gaz. vol. 162; p. 314.
Porter, Edwin E., Massillon, Ohio. Mold for casting. No. 999,865; Aug. 8; Sp. p. 1336; Gaz. vol. 169; p. 258.
Porter, Frank S. (See White, Hubert C., assignor.)
Porter, George, Centerville, Ala. Safety device for cars or the like. No. 993,871; May 30; Sp. p. 6528; Gaz. vol. 166; p. 1176.
Porter, George G., and F. E. Cable, Syracuse, N. Y. High-speed attachment for milling-machines. No. 1,012,430; Dec. 19; Sp. p. 4529; Gaz. vol. 173; p. 775.
Porter, Hector B., Wade, N. C. Saw-set. No. 1,002,750; Sept. 5; Sp. p. 1272; Gaz. vol. 170; p. 191.
Porter, Holbrook F. J., New York, N. Y., assignor to The Universal Speed Control Company. Variable-fluid gear. No. 985,835; Mar. 7; Sp. p. 151; Gaz. vol. 164; p. 27.
Porter, Horton B., Hillsboro, Tex. Attachment for lifting-jacks. No. 988,208; Mar. 28; Sp. p. 5207; Gaz. vol. 164; p. 923.
Porter, James E., Syracuse, assignor to The Just Mining and Extraction Company, Rochester, N. Y. Treating ores. No. 1,002,446; Sept. 5; Sp. p. 605; Gaz. vol. 170; p. 87.
Porter, James E., assignor to The Just Mining & Extraction Company, Syracuse, N. Y. Treating refractory sulfid ores. No. 1,002,447; Sept. 5; Sp. p. 608; Gaz. vol. 170; p. 87.
Porter, James S., Buffalo, N. Y. Bottle-stopper. No. 992,448; May 16; Sp. p. 3479; Gaz. vol. 166; p. 629.
Porter, James W. (See Porter, Albert M., assignor.)
Porter, John E., and W. W. Thomas, Berkeley, Cal. Load-carrier. No. 1,003,948; Sept. 19; Sp. p. 3853; Gaz. vol. 170; p. 676.
Porter, John J., assignor of one-fourth to F. E. Farnham, Peabody, Mass. Machine for making vessels. No. 985,631; Feb. 28; Sp. p. 5152; Gaz. vol. 163; p. 910.
Porter, Joseph Y., assignor to R. A. Parker and C. F. Burton, Detroit, Mich. Controller-regulator. No. 995,091; June 13; Sp. p. 2192; Gaz. vol. 167; p. 380.
Porter, Joseph Y., Jr., Knights Key, Fla. Valve-grinder. No. 983,084; Jan. 31; Sp. p. 6391; Gaz. vol. 162; p. 1110.
Porter, Marguerite F., New York, N. Y. Insecticide. No. 1,010,797; Dec. 5; Sp. p. 885; Gaz. vol. 173; p. 139.
Porter, Mary F. (See Ward, Ada, assignor.)
Porter, Oliver T., Wickhaven, Pa. Pocket-book. No. 983,085; Jan. 31; Sp. p. 6392; Gaz. vol. 162; p. 1111.
Porter, Robert V., Longville, La. Car-brake. No. 981,941; Jan. 17; Sp. p. 3976; Gaz. vol. 162; p. 663.
Porter, Samuel G. (See Manhire, William, assignor.)
Porter, Stephen C., Martinsville, assignor of one-half to W. H. Miller, Orange, N. J. Sound reproducer and record. No. 1,012,910; Dec. 26; Sp. p. 5591; Gaz. vol. 173; p. 906.
Porter, William H., Phoenix, Ariz. Logging device. No. 989,413; Apr. 11; Sp. p. 2379; Gaz. vol. 165; p. 401.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Clock-movement. No. 988,660; Apr. 4; Sp. p. 795; Gaz. vol. 165; p. 128.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Clock. No. 991,235; May 2; Sp. p. 867; Gaz. vol. 166; p. 147.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Clock. No. 991,236; May 2; Sp. p. 869; Gaz. vol. 166; p. 147.
Porter, Wilson E., assignor to New Haven Clock Co., New Haven, Conn. Watch. No. 996,727; July 4; Sp. p. 256; Gaz. vol. 168; p. 45.
Porterfield, Harry B. (See Tillinghast and Porterfield.)
Portillo, Angela. (See Portillo, Francisco, assignor.)
Portillo, Francisco, assignor of one-half to A. Portillo, Modesto, Cal. Tool for opening and stretching shears. No. 990,499; Apr. 25; Sp. p. 4818; Gaz. vol. 165; p. 840.
Porto, Frank, Baltimore, Md. Automatic signal device. No. 1,007,387; Oct. 31; Sp. p. 6237; Gaz. vol. 171; p. 1135.
Porzellanfabrik Kahla, Filiale Hermsdorf Klosterlausnitz. (See Weicker, William, assignor.)
Porzig, Herman, *et al.* (See Pecci, Pio N., assignor.)
Poser, Hermann, Dresden-Löbtau, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 988,383; Apr. 4; Sp. p. 203; Gaz. vol. 165; p. 33.
Positive Rail Anchor Company. (See Betts, Benjamin B., assignor.)
Positive Rail Anchor Company. (See Mitchell, William M., assignor.)
Positive Rail Anchor Company. (See Stickney, Samuel C., assignor.)
Poss, Ike, Chattanooga, Tenn. Folding fire-escape ladder. No. 988,593; Apr. 4; Sp. p. 659; Gaz. vol. 165; p. 106.
Posson, Edward, Chicago, Ill. Ventilator. No. 1,003,504; Sept. 19; Sp. p. 2863; Gaz. vol. 170; p. 523.
Posson, Edward, Chicago, Ill. Tie-plate. No. 1,003,505; Sept. 19; Sp. p. 2867; Gaz. vol. 170; p. 523.
Posson, Edward, Chicago, Ill. Car-roof framework. (Reissue.) No. 13,297; Oct. 3; Sp. p. 1172; Gaz. vol. 171; p. 198.
Posson, Edward, Chicago, Ill., assignor to Grain Belt Car Specialty Company. Emergency car-coupling. No. 1,009,174; Nov. 21; Sp. p. 3421; Gaz. vol. 172; p. 605.
Post, Charles B., New London, Ohio. Pivoted window-sash. No. 1,012,704; Dec. 26; Sp. p. 5110; Gaz. vol. 173; p. 916.
Post, Charles B., New London, Ohio. Reversible pivoted window. No. 1,012,705; Dec. 26; Sp. p. 5112; Gaz. vol. 173; p. 917.
Post, Edward C., *et al.* (See Froehlich, Max, assignor.)
Post, Eugen J., Cologne, Germany. Apparatus for manufacturing pipes from metal strips. No. 989,045; Apr. 11; Sp. p. 1583; Gaz. vol. 165; p. 278.
Post, Fred, assignor of one-half to C. S. Allen, Laurens, Iowa. Obstetrical forceps. No. 1,010,176; Nov. 28; Sp. p. 5558; Gaz. vol. 172; p. 995.
Post, Gustaf von, Stockholm, Sweden. Intermittently-acting feeding device for solid materials. No. 999,866; Aug. 8; Sp. p. 1337; Gaz. vol. 169; p. 258.
Post, Gustaf von, Stockholm, Sweden. Vacuum-generating wave-motor. No. 1,009,260; Nov. 21; Sp. p. 3651; Gaz. vol. 172; p. 637.
Post, Robert L. (See Vallilee and Post.)
Post, William C., Estherville, Iowa. Reversing-valve mechanism. No. 1,000,193; Aug. 8; Sp. p. 2083; Gaz. vol. 169; p. 370.
Post, William F., Asheville, N. C. Turnbuckle. No. 1,012,008; Dec. 19; Sp. p. 3631; Gaz. vol. 173; p. 633.
Post, Wilson E., Norwich, Conn. Lock mechanism for firearms. No. 983,762; Feb. 7; Sp. p. 1082; Gaz. vol. 163; p. 173.
Postal Supply & Manufacturing Company, The. (See Fulk, Gilbert V., assignor.)
Postans, Arthur J., Brentford, England. Stropping-machine for razors. No. 1,010,070; Nov. 28; Sp. p. 5359; Gaz. vol. 172; p. 960.
Postans, Arthur J., Middlesex, England. Safety-razor. No. 1,011,844; Dec. 12; Sp. p. 3244; Gaz. vol. 173; p. 540.

Alphabetical list of patentees—Continued.

Postel, Jacob H., Kearney, Nebr. Pipe-hanger coupling. No. 981,470; Jan. 10; Sp. p. 2954; Gaz. vol. 162; p. 479.
Postelwait, Austin T., Red Springs, Tex. Boll-huller and cotton-cleaner. No. 1,006,594; Oct. 24; Sp. p. 4512; Gaz. vol. 171; p. 804.
Posternak, Swigel. (See Arnaud and Posternak.)
Poston, Emory E., Campbell, Cal. Brooder. No. 981,942; Jan. 17; Sp. p. 3977; Gaz. vol. 162; p. 663.
Potdevin, Adolph, New York, assignor to Potdevin Machine Company, Brooklyn, N. Y. Machine for making boxes. No. 992,244; May 16; Sp. p. 3015; Gaz. vol. 166; p. 555.
Potdevin, Adolph, assignor to Potdevin Machine Company, Brooklyn, N. Y. Internal-combustion engine. No. 1,010,798; Dec. 5; Sp. p. 886; Gaz. vol. 173; p. 139.
Potdevin Machine Company. (See Potdevin, Adolph, assignor.)
Poth, Heinrich, Wilkinsburg, Pa. Lifting-magnet. No. 986,216; Mar. 7; Sp. p. 952; Gaz. vol. 164; p. 155.
Potstada, George, San Francisco, Cal. Sheet-cutter. No. 982,743; Jan. 24; Sp. p. 5622; Gaz. vol. 162; p. 965.
Potter, Albert, Detroit, Mich. Train-pipe coupling. No. 994,479; June 6; Sp. p. 772; Gaz. vol. 167; p. 131.
Potter, Albert G., Swampscott, Mass. Door-spring. No. 1,010,071; Nov. 28; Sp. p. 5363; Gaz. vol. 172; p. 961.
Potter, Alvan E., Paullina, Iowa. Mold for concrete blocks. No. 987,319; Mar. 21; Sp. p. 3303; Gaz. vol. 164; p. 593.
Potter, Bernard U., Holyoke, Mass. Supporting-stand for the rear wheels of motor-cycles. No. 1,006,125; Oct. 17; Sp. p. 3414; Gaz. vol. 171; p. 606.
Potter, Bret H., Wytopitlock, Me. Attachment for potato-diggers. No. 1,005,304; Oct. 10; Sp. p. 1605; Gaz. vol. 171; p. 288.
Potter, Charles A. (See McHardy and Potter.)
Potter, Daniel B., Fremont, Nebr. Driving-reins. No. 1,012,009; Dec. 19; Sp. p. 3632; Gaz. vol. 173; p. 633.
Potter, Edson, Brighton, N. Y. Window. No. 991,237; May 2; Sp. p. 871; Gaz. vol. 166; p. 148.
Potter, Ellis M., New York, N. Y. Treating and roasting coffee. No. 994,785; June 13; Sp. p. 1504; Gaz. vol. 167; p. 276.
Potter, Frank B., Carthage, N. Y. Stone-truing tool. No. 994,603; June 6; Sp. p. 1040; Gaz. vol. 167; p. 173.
Potter, Frank H. T., Chicago, Ill. Battery-vault. No. 991,085; May 2; Sp. p. 534; Gaz. vol. 166; p. 92.
Potter, Frank W., *et al.* (See Johnson, William H., assignor.)
Potter, Frederic W., Brooklyn, N. Y. Turning-machine. No. 1,005,069; Oct. 3; Sp. p. 1075; Gaz. vol. 171; p. 180.
Potter, Frederick P. (See Young, Harry B., assignor.)
Potter, Henry K., Boston, Mass., assignor to Studebaker Brothers Manufacturing Company, South Bend, Ind. Apparatus for treating roads. No. 993,618; May 30; Sp. p. 5990; Gaz. vol. 166; p. 1090.
Potter, Henry N., New Rochelle, N. Y., assignor to Cooper Hewitt Electric Company. Gas or vapor electric lamp and heater connected therewith. No. 1,012,706; Dec. 26; Sp. p. 5114; Gaz. vol. 173; p. 917.
Potter, James C., and J. Johnston, assignors to Potter & Johnston Machine Co., Pawtucket, R. I. Turret-lathe. No. 991,886; May 9; Sp. p. 2259; Gaz. vol. 166; p. 403.
Potter, James C., and J. Johnston, assignors to Potter & Johnston Machine Company, Pawtucket, R. I. Tool-operating mechanism for lathes. No. 1,007,141; Oct. 31; Sp. p. 5711; Gaz. vol. 171; p. 1047.
Potter, James E., assignor to Fischer and Pruefer, Providence, R. I. Pin. No. 991,887; May 9; Sp. p. 2260; Gaz. vol. 166; p. 403.
Potter, James W. (See Sullivan and Potter.)
Potter, John E., Hillsboro, Ill. Collapsible box. No. 1,003,150; Sept. 12; Sp. p. 2119; Gaz. vol. 170; p. 365.
Potter, John O. (See Haymond and Potter.)
Potter & Johnston Machine Co. (See Potter and Johnston, assignors.)
Potter, Joseph L., Indianapolis, Ind. Scraping-excavator and conveyer. No. 985,546; Feb. 28; Sp. p. 4986; Gaz. vol. 163; p. 882.
Potter, Joseph L., Indianapolis, Ind. Sewer construction. No. 987,398; Mar. 21; Sp. p. 3469; Gaz. vol. 164; p. 620.
Potter, Mathewson W., and H. M. Snell, Saybrook, Conn. Embroidery-awl. No. 983,763; Feb. 7; Sp. p. 1084; Gaz. vol. 163; p. 174.
Potter Printing Press Company, The. (See Hunting, Irving A., assignor.)
Potter, Thomas I., Portland, Oreg. Key-controlled coin-delivering apparatus. No. 1,011,845; Dec. 12; Sp. p. 3245; Gaz. vol. 173; p. 540.
Potter, William, New York, N. Y. Rabbet-plane. No. 991,238; May 2; Sp. p. 873; Gaz. vol. 166; p. 148.
Potter, William, New York, N. Y. Boring-machine alarm. No. 995,178; June 13; Sp. p. 2357; Gaz. vol. 167; p. 408.
Potter, William, New York, N. Y. Scriber. No. 1,000,940; Aug. 15; Sp. p. 3708; Gaz. vol. 169; p. 664.
Potter, William, New York, N. Y. Level and plumb. No. 1,004,301; Sept. 26; Sp. p. 4666; Gaz. vol. 170; p. 826.
Potter, William, New York, N. Y. Boring-bit. No. 1,004,902; Oct. 3; Sp. p. 781; Gaz. vol. 171; p. 125.
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Support for third rails. No. 1,008,560; Nov. 14; Sp. p. 2109; Gaz. vol. 172; p. 360.
Potter, William W., Pawtucket, R. I. Tire-valve. No. 1,004,464; Sept. 26; Sp. p. 5005; Gaz. vol. 170; p. 880.
Potter, Winfield S., assignor to Manganese Steel Rail Company, Mahwah, N. J. Rolled manganese-steel railway-rail. No. 987,167; Mar. 21; Sp. p. 2973; Gaz. vol. 164; p. 540.
Pottinger, Edwin J., Hornsey, assignor to Spicer Brothers Limited, London, England. Loose-leaf binder. No. 991,239; May 2; Sp. p. 874; Gaz. vol. 166; p. 149.
Potts, Albert B., assignor to Ross-Meehan Foundry Company, Chattanooga, Tenn. Feed-water strainer. No. 1,000,843; Aug. 15; Sp. p. 3506; Gaz. vol. 169; p. 630.
Potts, George C., and P. H. Weaver, Chicago, Ill. Rod-packing. No. 990,587; Apr. 25; Sp. p. 4988; Gaz. vol. 165; p. 869.
Potts, George E., Short Hills, N. J., assignor to The Potts Powder Company, New York, N. Y. Manufacturing nitro compounds. No. 1,008,615; Nov. 14; Sp. p. 2241; Gaz. vol. 172; p. 381.
Potts, Howard B., Jackson township, Guernsey county, Ohio. Drill. No. 988,503; Apr. 4; Sp. p. 450; Gaz. vol. 165; p. 73.
Potts, Louis M., assignor, by mesne assignments, to A. McLanahan, Baltimore, Md. Telegraphy. No. 988,811; Apr. 4; Sp. p. 1109; Gaz. vol. 165; p. 177.
Potts Powder Company, The. (See Potts, George E., assignor.)
Potts, Samuel, *et al.* (See Minnis, Henry M., assignor.)
Potts, Walter E., Santa Fe, Tenn. Automatic wagon-loader. No. 1,000,844; Aug. 15; Sp. p. 3508; Gaz. vol. 169; p. 631.
Potwin, William S. (See Desmond, John, assignor.)
Potwin, William S. (See Staunton, Gray, assignor.)
Pouliot, Joseph C., Fraserville, Quebec, Canada. Portable fire-escape. No. 992,902; May 23; Sp. p. 4445; Gaz. vol. 166; p. 815.
Poulson, Andrew, Farnworth, near Widnes, England. Manufacture of gelatinous silica. No. 1,012,911; Dec. 26; Sp. p. 5593; Gaz. vol. 173; p. 986.
Poultney, John L., Haverford, assignor to James Boyd & Brother, Inc., Philadelphia, Pa. Automobile fire-engine. No. 1,004,816; Oct. 3; Sp. p. 574; Gaz. vol. 171; p. 94.
Powel, Harford W. H., *et al.* (See Christensen, Anton, assignor.)
Powell, Edwin L., New Orleans, La. Indicator for hotels and other places. No. 998,391; July 18; Sp. p. 3919; Gaz. vol. 168; p. 694.
Powell, Frank, West New York, N. J., assignor of one-half to J. M. Delaney, New York, N. Y. Apparatus for molding and piercing soles. No. 987,742; Mar. 28; Sp. p. 4193; Gaz. vol. 164; p. 765.
Powell, George N. (See Crosier, John H., assignor.)
Powell, George W. (See Crosier, John H., assignor.)
Powell, Guy H., Chicago, Ill., assignor to Powell Suit-Case Go-Cart Co., Sturgis, Mich. Child's cab or carriage. No. 997,325; July 11; Sp. p. 1538; Gaz. vol. 168; p. 280.
Powell, H. G. (See Price, John D., assignor.)
Powell, Howell C., assignor to The Seng Company, Chicago, Ill. Wire fabric. No. 998,036; July 18; Sp. p. 3114; Gaz. vol. 168; p. 567.
Powell, Ira D., Forest Park, Ill. Elbow-former attachment for pipe-vises. No. 998,924; July 25; Sp. p. 5089; Gaz. vol. 168; p. 913.
Powell, Jerry E., Haywood, W. Va. Mine-drill jack. No. 1,001,074; Aug. 22; Sp. p. 4068; Gaz. vol. 169; p. 746.
Powell, John B., assignor of one-half to A. H. Engle, Philadelphia, Pa. Suction-cleaner. No. 1,008,366; Nov. 14; Sp. p. 1631; Gaz. vol. 172; p. 292.
Powell, John M., Los Gatos, Cal. Spike-holder. No. 1,009,568; Nov. 21; Sp. p. 4335; Gaz. vol. 172; p. 746.
Powell, John T., Dallas, Tex. Chimney-cowl. No. 1,010,799; Dec. 5; Sp. p. 888; Gaz. vol. 173; p. 139.
Powell, Moses J. (See Rollings, Alex W., assignor.)
Powell, Samuel K., Los Angeles, Cal. Ball-carrier and game-register. No. 1,011,486; Dec. 12; Sp. p. 2443; Gaz. vol. 173; p. 416.
Powell Suit-Case Go-Cart Co. (See Powell, Guy H., assignor.)
Powell, William E. C., Albany, N. Y. Bottle. No. 1,002,307; Sept. 5; Sp. p. 277; Gaz. vol. 170; p. 38.
Powell, William H., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Motor-control system. No. 988,028; Mar. 28; Sp. p. 4860; Gaz. vol. 164; p. 865.
Power Developement Company. (See Tainter, Frank S., assignor.)
Power, Farington, Kansas City, Mo. Tire. No. 1,002,604; Sept. 5; Sp. p. 951; Gaz. vol. 170; p. 141.
Power, George S., Nutley, N. J. Front end for cylinders. No. 1,009,787; Nov. 28; Sp. p. 4775; Gaz. vol. 172; p. 864.
Power, John A., Babylon, N. Y. Triple-purification water-still. No. 988,661; Apr. 4; Sp. p. 797; Gaz. vol. 165; p. 128.
Power, Kelcy L., Ballinger, Tex. Rotary engine. No. 995,717; June 20; Sp. p. 3534; Gaz. vol. 167; p. 623.
Power, Michael J., Nekoosa, assignor to H. G. Saecker, Appleton, Wis. Machine for splitting wood. (Reissue.) No. 13,221; Mar. 21; Sp. p. 4064; Gaz. vol. 164; p. 720.

Alphabetical list of patentees—Continued.

Power and Mining Machinery Company, The. (See Pettibone, Hawley, assignor.)
Power Numbering Machine Company. (See Merrick, Frank W., assignor.)
Power, Roscoe B., Green Bay, Wis. Backing for artificial teeth. No. 1,004,302; Sept. 26; Sp. p. 4668; Gaz. vol. 170; p. 826.
Power Specialty Company. (See Fetherston, John T., assignor.)
Powers, Charles R., Princeton, Wis. Dental tool-holder. No. 993,100; May 23; Sp. p. 4884; Gaz. vol. 166; p. 885.
Powers, Donald J., New York, N. Y., assignor to The Powers Regulator Company, Chicago, Ill. Fire protection. No. 1,004,074; Sept. 26; Sp. p. 4180; Gaz. vol. 170; p. 748.
Powers, Fred W., assignor to The Powers Regulator Company, Chicago, Ill. Fire protection. No. 1,002,308; Sept. 5; Sp. p. 278; Gaz. vol. 170; p. 38.
Powers, James, Sandusky, Ohio. Tire-set and spoke-clamp. No. 985,836; Mar. 7; Sp. p. 162; Gaz. vol. 164; p. 28.
Powers, James, Washington, D. C. Combined punching and counting mechanism. No. 992,245; May 16; Sp. p. 3018; Gaz. vol. 166; p. 556.
Powers, James, Washington, D. C. Perforating-machine. No. 992,246; May 16; Sp. p. 3030; Gaz. vol. 166; p. 556.
Powers, John, Los Angeles, Cal. Knob-spindle fastener. No. 991,018; May 2; Sp. p. 401; Gaz. vol. 166; p. 68.
Powers, Louis D., Anadarko, Okla. Insect-destroyer. No. 1,006,271; Oct. 17; Sp. p. 3756; Gaz. vol. 171; p. 660.
Powers Regulator Company, The. (See Powers, Donald J., assignor.)
Powers Regulator Company, The. (See Powers, Fred W., assignor.)
Powers, Timothy B., London, England. Self-winding clock. No. 1,012,010; Dec. 19; Sp. p. 3633; Gaz. vol. 173; p. 633.
Powers, Timothy B., New York, N. Y., and M. R. Jewell, Chicago, Ill., assignors, by mesne assignments, to The Telelectric Company, Pittsfield, Mass. Automatic playing apparatus for musical instruments. (Reissue.) No. 13,244; May 23; Sp. p. 5356; Gaz. vol. 166; p. 960.
Pownall, Henry D., Cincinnati, Ohio. Ice-machine. No. 992,518; May 16; Sp. p. 3631; Gaz. vol. 166; p. 652.
Pownall, Henry D., Cincinnati, Ohio. Ice-machine. No. 992,589; May 16; Sp. p. 3795; Gaz. vol. 166; p. 677.
Powney, William J., Chicago, Ill. Apparatus for treating wire rods. No. 1,013,056; Dec. 26; Sp. p. 5921; Gaz. vol. 173; p. 1036.
Poyet, Etienne, Ybor City, Fla. Automatic centralizing totalizer apparatus. No. 1,008,862; Nov. 14; Sp. p. 2757; Gaz. vol. 172; p. 465.
Poynter, Herbert E., Whitevale, Ontario, Canada. Planting device. No. 992,056; May 9; Sp. p. 2581; Gaz. vol. 166; p. 459.
Pozzi, Aloysius, Trenton, N. J. Cane and umbrella tip protector. No. 1,007,730; Nov. 7; Sp. p. 167; Gaz. vol. 172; p. 27.
Praeger, Ewald, San Antonio, Tex. Holder for ice-cream freezers. No. 996,137; June 27; Sp. p. 4434; Gaz. vol. 167; p. 802.
Prager, George P., Indiana township, Allegheny county, Pa. Milk-can lock. No. 997,088; July 4; Sp. p. 1045; Gaz. vol. 168; p. 168.
Prahl, Frederick A., New York, N. Y., assignor to Babcock Box Company. Knockdown barrel. No. 980,434; Jan. 3; Sp. p. 532; Gaz. vol. 162; p. 90.
Prana Gesellschaft für Tageslicht-Projektion mit beschränkter Haftung. (See Buechner, Albert O., assignor.)
Prana Gesellschaft für Tageslicht-Projektion mit beschränkter Haftung. (See Buechner, Oswald, assignor.)
Praray, Joseph A., and H. S. Greene, Woonsocket, R. I. Planetary napping-machine drum. No. 1,007,237; Oct. 31; Sp. p. 5927; Gaz. vol. 171; p. 1081.
Prat, Jules. (See Teisset and Prat.)
Prater, Samuel J., Clifton, Tenn. Sash-fastener. No. 1,011,846; Dec. 12; Sp. p. 3258; Gaz. vol. 173; p. 540.
Prater, W. A. (See Nash, Abram, assignor.)
Prather, Caleb M., Evanston, Ill. Baby-holder. No. 1,012,431; Dec. 19; Sp. p. 4531; Gaz. vol. 173; p. 776.
Prather, Frank M., Los Angeles, Cal. Air-compressor. No. 982,632; Jan. 24; Sp. p. 5390; Gaz. vol. 162; p. 930.
Prather, George W. (See Fowler and Prather.)
Prather, Jesse F., Mount Airy, N. C. Display and storage cabinet for shirts, &c. No. 1,010,950; Dec. 5; Sp. p. 1219; Gaz. vol. 173; p. 192.
Prather, Joseph L., Fresno, Cal. Plow. No. 1,008,490; Nov. 14; Sp. p. 1959; Gaz. vol. 172; p. 335.
Prather, Wilbur W., Adams Springs, Cal. Variable-speed-transmission device. No. 1,012,912; Dec. 26; Sp. p. 5594; Gaz. vol. 173; p. 986.
Pratt & Cady Company, The. (See Hayden, George W., assignor.)
Pratt, Charles E., assignor to A. B. Dick Company, Chicago, Ill. Calculating-machine. No. 1,006,787; Oct. 24; Sp. p. 4903; Gaz. vol. 171; p. 870.
Pratt, Earl H., Chicago, Ill., assignor to Studebaker Brothers Manufacturing Company, South Bend, Ind. Folding wind-shield. No. 984,848; Feb. 21; Sp. p. 3449; Gaz. vol. 163; p. 609.
Pratt, George H., White Plains, assignor to Art Brass Company, New York, N. Y. Toilet-mirror. No. 990,588; Apr. 25; Sp. p. 4989; Gaz. vol. 165; p. 870.
Pratt, George L., Decatur, Ga. Pulverizing-machine. No. 986,756; Mar. 14; Sp. p. 2121; Gaz. vol. 164; p. 370.
Pratt & Letchworth Company. (See Sherman, Clifton W., assignor.)
Pratt, Lewis M., Oklahoma, Okla. Burglar-alarm. No. 991,643; May 9; Sp. p. 1756; Gaz. vol. 166; p. 322.
Pratt, Lloyd W., assignor to New Process Twist Drill Company, Taunton, Mass. Drill. No. 985,283; Feb. 28; Sp. p. 4391; Gaz. vol. 163; p. 792.
Pratt, Mason D., Harrisburg, Pa. Reinforced-concrete conduit. No. 1,001,682; Aug. 29; Sp. p. 5302; Gaz. vol. 169; p. 980.
Pratt, Philip W., Boston, Mass. Crutch and cane tip. No. 994,194; June 6; Sp. p. 196; Gaz. vol. 167; p. 34.
Pratt, Philip W., Boston, Mass. Machine for impregnating fabrics. No. 1,011,242; Dec. 12; Sp. p. 1901; Gaz. vol. 173; p. 328.
Pratt & Whitney Company. (See Goodrich, Clarence L., assignor.)
Pratt & Whitney Company. (See Grohmann, Carl L., assignor.)
Pratt & Whitney Company. (See Hanson, Bengt M. W., assignor.)
Pratt & Whitney Company. (See Hanson and Grohmann, assignors.)
Pratt, William, and J. Calahan, Grand Valley, Colo. Railway-tie. No. 982,867; Jan. 31; Sp. p. 5914; Gaz. vol. 162; p. 1038.
Pratt, William A., Blundellsands, England. Tobacco-pipe. No. 989,639; Apr. 18; Sp. p. 2896; Gaz. vol. 165; p. 511.
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Electric meter. No. 984,297; Feb. 14; Sp. p. 2276; Gaz. vol. 163; p. 385.
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Mercury-meter. No. 993,872; May 30; Sp. p. 6529; Gaz. vol. 166; p. 1177.
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Measuring instrument. No. 1,000,941; Aug. 15; Sp. p. 3710; Gaz. vol. 169; p. 665.
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Electric measuring instrument. No. 1,000,942; Aug. 15; Sp. p. 3711; Gaz. vol. 169; p. 665.
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Variable-rate meter. No. 1,003,506; Sept. 19; Sp. p. 2869; Gaz. vol. 170; p. 524.
Pratt, William H., Lynn, Mass., assignor to General Electric Company. Astatic wattmeter. No. 1,003,507; Sept. 19; Sp. p. 2871; Gaz. vol. 170; p. 524.
Preatka, Joseph, San Francisco, Cal. Power apparatus. No. 1,006,272; Oct. 17; Sp. p. 3758; Gaz. vol. 171; p. 661.
Preble, Edwin N., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 1,004,075; Sept. 26; Sp. p. 4185; Gaz. vol. 170; p. 748.
Preble, Edwin N., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-pressing machine. No. 1,004,076; Sept. 26; Sp. p. 4190; Gaz. vol. 170; p. 749.
Prechel, Ernest, Woodlake, Minn. Clevis. No. 991,888; May 9; Sp. p. 2262; Gaz. vol. 166; p. 403.
Precision Glass Grinding Machine Company. (See Olsen, Simon D., assignor.)
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Air-compressor. No. 987,912; Mar. 28; Sp. p. 4576; Gaz. vol. 164; p. 824.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Hammer-drill. No. 988,029; Mar. 28; Sp. p. 4867; Gaz. vol. 164; p. 865.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Drill-mounting. No. 997,509; July 11; Sp. p. 1884; Gaz. vol. 168; p. 339.
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Tool-steel retainer for percussive tools. No. 1,000,036; Aug. 8; Sp. p. 1689; Gaz. vol. 169; p. 317.
Premier Engineering & Mfg. Co. (See Brooke, William M., assignor.)
Premier Relay Company. (See Miller, Jantzinger M., assignor.)
Premo Specialty Manufacturing Company. (See Nemethi, Charles, assignor.)
Prendergast, A. P., *et al.* (See Pierce, Franklin A., assignor.)
Prendergast, Alois P., and J. J. Tatum, Baltimore, Md. Draft-rigging for cars. No. 1,002,930; Sept. 12; Sp. p. 1689; Gaz. vol. 170; p. 292.
Prendergast, David A., Blaine, Wash. Davit-hook. No. 1,005,872; Oct. 17; Sp. p. 2855; Gaz. vol. 171; p. 519.
Prendergast, Edward, St. Louis, Mo. Box for street-valves, fire-plugs, and the like. No. 1,012,432; Dec. 19; Sp. p. 4532; Gaz. vol. 173; p. 776.
Prendergast, Edward, St. Louis, Mo. Truncated box for street-valves, fire-plugs, meters, and the like. No. 1,012,433; Dec. 19; Sp. p. 4534; Gaz. vol. 173; p. 776.
Prendergast, George. (See Tennant and Prendergast.)
Prentice Bros. Company. (See Hendrickson, Fred K., assignor.)

Prentice Bros. Company. (See Prentice, Vernon F., assignor.)
Prentice, George D., Great Falls, Mont. Keg-rinsing machine. No. 1,013,057; Dec. 26; Sp. p. 5923; Gaz. vol. 173; p. 1037.
Prentice, Vernon F., assignor to Prentice Bros. Company, Worcester, Mass. Belt-drive. No. 980,435; Jan. 3; Sp. p. 535; Gaz. vol. 162; p. 90.
Prentiss, Frederick H., San Francisco, Cal., assignor to American Exploration and Guaranty Company, Phoenix, Ariz. Apparatus for separating precious metals from associated materials. No. 985,447; Feb. 28; Sp. p. 4759; Gaz. vol. 163; p. 846.
Prentiss, Frederick H., San Francisco, Cal., assignor to American Exploration and Guaranty Company, Phoenix, Ariz. Apparatus for separating precious metals from associated materials. No. 995,718; June 20; Sp. p. 3537; Gaz. vol. 167; p. 623.
Prentiss Vise Company. (See Bingham, Charles D., assignor.)
Prenzel, Julius O., Berlin, Germany. Machine for manufacturing priming-bands. No. 1,012,434; Dec. 19; Sp. p. 4535; Gaz. vol. 173; p. 777.
Prenzlauer, Harry H. (See Sauer, William C., assignor.)
Preschlin, Paul E., Schladern-on-the-Sieg, Germany. Giving printing-rolls deprived of their etching or engraving their original diameter. No. 1,005,305; Oct. 10; Sp. p. 1610; Gaz. vol. 171; p. 288.
Prescott, Arthur T., East Orange, N. J., assignor to G. H. Frothingham Co. Ferry-landing machinery. No. 986,312; Mar. 7; Sp. p. 1157; Gaz. vol. 164; p. 186.
Prescott, Arthur T., East Orange, N. J., assignor to George H. Frothingham Co. Bearing. No. 1,012,153; Dec. 19; Sp. p. 3955; Gaz. vol. 173; p. 683.
Prescott, Edwin, Arlington, Mass. Shutter-operating device. No. 992,449; May 16; Sp. p. 3480; Gaz. vol. 166; p. 629.
Prescott, Frederick M., and E. P. Worden, Milwaukee, assignors to Fred M. Prescott Steam Pump Company, West Allis, Wis. Joint for pump-barrels. No. 1,002,309; Sept. 5; Sp. p. 283; Gaz. vol. 170; p. 39.
Prescott, George R., Alton, N. H. Washboard. No. 999,867; Aug. 8; Sp. p. 1338; Gaz. vol. 169; p. 258.
Prescott, Jacob E., Portland, Me. Life-preserver. No. 993,402; May 30; Sp. p. 5510; Gaz. vol. 166; p. 1015.
Prescott, James A., Lawrence, Mass. Device for holding keys in locks. No. 1,000,194; Aug. 8; Sp. p. 2085; Gaz. vol. 169; p. 371.
Prescott, Sydney I., New York, assignor to J. Peterson, Brooklyn, N. Y. Carbureter. No. 994,195; June 6; Sp. p. 198; Gaz. vol. 167; p. 34.
Prescott, Walter T., *et al.* (See Yon, Yancey L., assignor.)
Presler, Morton S., Kellogg, Idaho. Stump-eradicator. No. 984,965; Feb. 21; Sp. p. 3670; Gaz. vol. 163; p. 648.
Press, George F., Spokane, Wash. Gearing for horse-groomers. No. 982,838; Jan. 31; Sp. p. 5915; Gaz. vol. 162; p. 1038.
Press, Mendel M., Holyoke, Mass. Convertible chair. No. 993,101; May 23; Sp. p. 4885; Gaz. vol. 166; p. 885.
Pressed Prism Plate Glass Company. (See Wadsworth, Frank L. O., assignor.)
Pressed Radiator Company of America, The. (See Armstrong, Harry W., assignor.)
Pressed Steel Car Company. (See Lindström, Charles A., assignor.)
Pressed Steel Car Company. (See Reeder, Nathaniel S., assignor.)
Pressed Steel Car Company. (See Streib, John F., assignor.)
Pressed Steel Tank Company. (See Hackney, Robert H., assignor.)
Presser, John P., Hamilton, assignor of one-half to H. G. Von Heine, Baltimore, Md. Bottle-closure. No. 1,006,874; Oct. 24; Sp. p. 5114; Gaz. vol. 171; p. 902.
Pressure Lighting Company. (See Momand, Ragland, assignor.)
Prest, John E., Melrose, Mass. Thread-guide for spinning or twisting machines. No. 995,564; June 20; Sp. p. 3193; Gaz. vol. 167; p. 568.
Prest, John E., Melrose, Mass. Thread-guide for spinning or twisting machines. No. 1,006,126; Oct. 17; Sp. p. 3417; Gaz. vol. 171; p. 607.
Presto Electrical Manufacturing Company. (See Shoenberg, Milton H., assignor.)
Preston, F. S., *et al.* (See Stanley, Joseph, assignor.)
Preston, Frederic G., Malden, Mass. Mechanism for cranking automobiles and to prevent injury from backfiring of engines. No. 985,837; Mar. 7; Sp. p. 162; Gaz. vol. 164; p. 28.
Preston, George E., assignor of one-half to G. S. Wood, Chicago, Ill. Hose. No. 988,384; Apr. 4; Sp. p. 206; Gaz. vol. 165; p. 34.
Preston, James C., McAlester, Okla. Automatic railway-switch. No. 990,388; Apr. 25; Sp. p. 4535; Gaz. vol. 165; p. 800.
Preston, Jeffrey L., Grafton, Ill. Barrel-stave-jointing machine. No. 1,011,368; Dec. 12; Sp. p. 2190; Gaz. vol. 173; p. 373.
Preston, Leonard Z., Scottsville, Kans. Farm-gate. No. 1,004,196; Sept. 26; Sp. p. 4467; Gaz. vol. 170; p. 790.
Preston, Leonard Z., Scottsville, assignor of one-half to W. W. Langhrey, Glen Elder, Kans. Street-car switch. No. 986,858; Mar. 14; Sp. p. 2337; Gaz. vol. 164; p. 405.
Preston, Ward H., assignor to Papec Machine Co., Lima, N. Y. Ensilage-cutter. No. 984,155; Feb. 14; Sp. p. 1951; Gaz. vol. 163; p. 334.
Preuss, Frederick A., Green Garden Precinct, Madison county, Nebr. Corn-cultivator. No. 993,403; May 30; Sp. p. 5512; Gaz. vol. 166; p. 1015.
Preuss, John, Chicago, Ill. Hot-air furnace. No. 983,566; Feb. 7; Sp. p. 686; Gaz. vol. 163; p. 106.
Preyer, Frederick W., assignor to The Gibbs Manufacturing Company, Canton, Ohio. Toy. No. 1,005,070; Oct. 3; Sp. p. 1076; Gaz. vol. 171; p. 181.
Prezeau, Napoleon, Baker, Oreg. Jack. No. 1,004,465; Sept. 26; Sp. p. 5007; Gaz. vol. 170; p. 881.
Pribble, John L., Enfield, Va. Differential gear. No. 988,662; Apr. 4; Sp. p. 800; Gaz. vol. 165; p. 129.
Pribil, Adolphe, Marseille, France. Lubricator with ball-closure. No. 992,519; May 16; Sp. p. 3633; Gaz. vol. 166; p. 652.
Pribil, Adolphe, Paris, France. Automatic lubricating device. No. 1,008,061; Nov. 7; Sp. p. 893; Gaz. vol. 172; p. 144.
Pribil, Alexis R., Detroit, assignor to Universal Implement Company, Orion, Mich. Potato-planter. No. 1,008,925; Nov. 14; Sp. p. 2879; Gaz. vol. 172; p. 484.
Price, Albert M., Elgin, Ill., assignor, by mesne assignments, to Wm. Wrigley, Jr. Company. Manufacture of chewing-gum. No. 992,590; May 16; Sp. p. 3797; Gaz. vol. 166; p. 677.
Price Automatic Railway Couplers Limited, The. (See Price, Walter J., assignor.)
Price-Campbell Cotton Picker Corporation. (See White, Bruce C., assignor.)
Price-Campbell Cotton Picker Corporation. (See White and Calderwood, assignors.)
Price, Charles P., assignor to American Tar Company, Boston, Mass. Fluid-distributing device. No. 998,983; July 25; Sp. p. 5242; Gaz. vol. 168; p. 934.
Price, Charles P., Malden, assignor to American Tar Company, Boston, Mass. Device for heating broken stone or other mineral aggregate. No. 998,984; July 25; Sp. p. 5244; Gaz. vol. 168; p. 934.
Price, Charles R., Chicopee, Mass. Sanitary drinking-fountain. No. 999,056; July 25; Sp. p. 5395; Gaz. vol. 168; p. 960.
Price, Claude E., assignor of one-half to R. W. Douglas, St. Joseph, Mo. Candy-crystallizer. No. 1,012,011; Dec. 19; Sp. p. 3635; Gaz. vol. 173; p. 634.
Price, Davis G., assignor of one-half to C. E. Torjusen, New Orleans, La. Railway-tie. No. 988,736; Apr. 4; Sp. p. 966; Gaz. vol. 165; p. 153.
Price, Edgar F., Niagara Falls, N. Y., assignor, by mesne assignments, to Central Trust Company of New York, trustee. Effecting reduction and producing ferrochromium. No. 995,481; June 20; Sp. p. 3024; Gaz. vol. 167; p. 538.
Price, Frank A., Elgin, Ill. Forming cloth with a simulated metallic surface. No. 995,289; June 13; Sp. p. 2562; Gaz. vol. 167; p. 444.
Price, Frank A., Elgin, Ill. Sheet-metal brace for corner structures. No. 1,003,508; Sept. 19; Sp. p. 2873; Gaz. vol. 170; p. 524.
Price, Frederick C., Nyack, N. Y. Window and door fastener. No. 1,006,788; Oct. 24; Sp. p. 4917; Gaz. vol. 171; p. 870.
Price, Harry G., Philadelphia, Pa. Furniture-spring. No. 991,086; May 2; Sp. p. 535; Gaz. vol. 166; p. 93.
Price, James B., Beaumont, Tex. Oil-tank. No. 998,261; July 18; Sp. p. 3602; Gaz. vol. 168; p. 646.
Price, James B., Beaumont, Tex. Tire. No. 1,007,889; Nov. 7; Sp. p. 550; Gaz. vol. 172; p. 84.
Price, James W., St. Louis, Mo. Device for oiling fellies. No. 981,794; Jan. 17; Sp. p. 3596; Gaz. vol. 162; p. 610.
Price, Jessee F., assignor of one-fourth to H. H. Wilson and one-fourth to W. M. Gallagher, Tecumseh, Okla. Milk-cooler. No. 980,833; Jan. 3; Sp. p. 1401; Gaz. vol. 162; p. 224.
Price, John D., assignor of one-half to H. G. Powell, Cleveland, Ohio. Combined lace and button shoe. No 988,812; Apr. 4; Sp. p. 1117; Gaz. vol. 165; p. 178.
Price, Lin W., Chicago, Ill. Eyeglass-holder. No. 993,404; May 30; Sp. p. 5513; Gaz. vol. 166; p. 1015.
Price, Preston, Price, N. C. Rail-joint supporter. No. 991,366; May 2; Sp. p. 1155; Gaz. vol. 166; p. 193.
Price, Thomas E. (See Tovey, William M., assignor.)
Price, Walter J., assignor to The Price Automatic Railway Couplers Limited, Narrabri, New South Wales, Australia. Railway-coupling. No. 1,008,062; Nov. 7; Sp. p. 894; Gaz. vol. 172; p. 144.
Price, William W., Dayton, Ohio. Pipe-coupling packing. No. 980,571; Jan. 3; Sp. p. 1080; Gaz. vol. 162; p. 172.
Prichard, Rees I., Shamokin, Pa. Post-card. No. 1,008,195; Nov. 7; Sp. p. 1170; Gaz. vol. 172; p. 192.
Prickett, Zae E., Chicago, Ill. Type-writer ribbon-spool. No. 1,003,791; Sept. 19; Sp. p. 3499; Gaz. vol. 170; p. 622.
Pride, Charles A., Tompkinsville, N. Y. Faucet. No. 988,504; Apr. 4; Sp. p. 452; Gaz. vol. 165; p. 73.

Alphabetical list of patentees—Continued.

Pride, James F., Waukesha, Wis. Car-mover. No. 1,007,044; Oct. 24; Sp. p. 5463; Gaz. vol. 171; p. 957.
Pridgen, Samuel J., and E. Clarke, Atlanta, Ga. Loose-leaf binder. No. 992,057; May 9; Sp. p. 2584; Gaz. vol. 166; p. 460.
Pridmore, John W., Chicago, Ill., assignor to International Harvester Company. Cutting apparatus for mowers. No. 995,902; June 20; Sp. p. 3958; Gaz. vol. 167; p. 686.
Pridmore, John W., assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Harvester-seat. No. 1,004,589; Oct. 3; Sp. p. 84; Gaz. vol. 171; p. 16.
Priebe, Ernest B., Cambridge, Mass. Heating-plate. No. 1,011,487; Dec. 12; Sp. p. 2445; Gaz. vol. 173; p. 417.
Priebe, Herman C., Blue Island, Ill. Grain-car door. No. 985,704; Feb. 28; Sp. p. 5346; Gaz. vol. 163; p. 936.
Priebe, Herman C., Chicago, Ill. Car-underframe. No. 1,012,012; Dec. 19; Sp. p. 3637; Gaz. vol. 173; p. 634.
Priebe, Herman C., Chicago, Ill. Car-underframe. No. 1,012,013; Dec. 19; Sp. p. 3640; Gaz. vol. 173; p. 635.
Priebe, Herman C., Chicago, Ill. Car-underframe. No. 1,012,014; Dec. 19; Sp. p. 3642; Gaz. vol. 173; p. 635.
Prier, George H., New York, N. Y. Level. No. 992,058; May 9; Sp. p. 2585; Gaz. vol. 166; p. 460.
Pries, Herman, Michigan City, Ind. Refrigerator. No. 986,859; Mar. 14; Sp. p. 2340; Gaz. vol. 164; p. 405.
Pries, Herman, Michigan City, Ind. Refrigerator-car. No. 1,007,485; Oct. 31; Sp. p. 6434; Gaz. vol. 171; p. 1168.
Priest, Augustus F., Chicago, Ill. Locomotive smoke-stack. No. 995,092; June 13; Sp. p. 2195; Gaz. vol. 167; p. 381.
Priest, George E., Orange, Mass. Box-machine. No. 987,320; Mar. 21; Sp. p. 3306; Gaz. vol. 164; p. 594.
Priest, George W., Newton, Mass. Cement-lined pipe and fitting. No. 1,005,466; Oct. 10; Sp. p. 1949; Gaz. vol. 171; p. 344.
Priest, Minerva E., Wurtland, Ky. Screen. No. 1,003,370; Sept. 12; Sp. p. 2584; Gaz. vol. 170; p. 445.
Priest, Stephen B., Washington, D. C. Automatic electrical fire-extinguisher. No. 1,012,913; Dec. 26; Sp. p. 5597; Gaz. vol. 173; p. 986.
Priest, William D., San Francisco, Cal. Can-opener. No. 981,686; Jan. 17; Sp. p. 3389; Gaz. vol. 162; p. 572.
Priestly, Frank C., Los Angeles, Cal. Combination pump and shock-absorber. No. 999,590; Aug. 1; Sp. p. 782; Gaz. vol. 169; p. 136.
Priestman, Albert, Philadelphia, Pa. Apparatus for controlling the flow of liquids. No. 989,046; Apr. 11; Sp. p. 1585; Gaz. vol. 165; p. 278.
Priestman, Albert, Philadelphia, Pa Apparatus for controlling the flow of liquids. No. 989,047; Apr. 11; Sp. p. 1586; Gaz. vol. 165; p. 278.
Prieto Machine Co. (See Prieto, Manuel, assignor.)
Prieto, Manuel, Merida, Mexico, assignor to Prieto Machine Co. Inc. Decorticating-machine. No. 998,549; July 18; Sp. p. 4219; Gaz. vol. 168; p. 747.
Prieto, Manuel, Merida, Mexico, assignor to Prieto Machine Co., Inc. Decorticating-machine. No. 1,002,751; Sept. 5; Sp. p. 1273; Gaz. vol. 170; p. 191.
Prigge, John A., Jr., New York, N. Y. Key-ring. No. 988,960; Apr. 4; Sp. p. 1395; Gaz. vol. 165; p. 224.
Prima, Gottfried. (See Koss and Prima.)
Prime, Edward J., Groveland, Mass. Shoe-rack. No. 1,006,127; Oct. 17; Sp. p. 3420; Gaz. vol. 171; p. 607.
Primley, William F., and H. E. Baer, Lincoln, Nebr. Fan. No. 991,367; May 2; Sp. p. 1157; Gaz. vol. 166; p. 193.
Primrose, John, New York, N. Y. Steam-superheating apparatus for locomotive-boilers. No. 1,001,075; Aug. 22; Sp. p. 4069; Gaz. vol. 169; p. 746.
Primrose, John, Dansville, N. Y. Regulation of the temperature of superheated steam. No. 1,003,792; Sept. 19; Sp. p. 3500; Gaz. vol. 170; p. 622.
Prince, Aaron, Lawrence, assignor to The New York Woven Wire Mattress Co., New York, N. Y. Woven-wire bed-spring. No. 1,001,981; Aug. 29; Sp. p. 5967; Gaz. vol. 169; p. 1081.
Prince, John A., New York, N. Y. Bottle-washing machine. No. 981,002; Jan. 10; Sp. p. 1894; Gaz. vol. 162; p. 314.
Prince, John D., New York, N. Y. Locking device for nuts and the like. No. 1,009,340; Nov. 21; Sp. p. 3824; Gaz. vol. 172; p. 665.
Prince, William A., Knoxville, Tenn. Cross-head. No. 1,009,569; Nov. 21; Sp. p. 4336; Gaz. vol. 172; p. 746.
Prindle, Edwin J., East Orange, assignor to United Shoe Machinery Company, Paterson, N. J. Forming lasts or last parts. No. 993,405; May 30; Sp. p. 5515; Gaz. vol. 166; p. 1016.
Prindle, Edwin J., Washington, D. C., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Turning lasts. No. 996,673; July 4; Sp. p. 156; Gaz. vol. 168; p. 28.
Prindle, Harry A., East Orange, N. J., assignor of one-half to F. H. Stillman, Brooklyn, N. Y. Electric tank-switch. No. 989,414; Apr. 11; Sp. p. 2380; Gaz. vol. 165; p. 402.
Prindle, Henry F. (See Hopper and Prindle.)
Prindle, Henry U., assignor to Planetary Machinery Company, Incorporated, San Francisco, Cal. Agitator or paddle mechanism for mixing machines. No. 1,012,154; Dec. 19; Sp. p. 3956; Gaz. vol. 173; p. 683.
Prine, Jay W., assignor of one-half to H. Chiverton, Jamestown, N. Y. Car-seal. No. 1,003,793; Sept. 19; Sp. p. 3502; Gaz. vol. 170; p. 623.
Pringle, William A., assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Web-slitting mechanism. No. 984,024; Feb. 14; Sp. p. 1692; Gaz. vol. 163; p. 291.
Pringle, William A., assignor to The Carter-Crume Co., Limited, Niagara Falls, N. Y. Cylinder for printing-presses. No. 989,870; Apr. 18; Sp. p. 3379; Gaz. vol. 165; p. 589.
Pringle, William A., assignor to The Carter-Crume Company, Limited, Niagara Falls, N. Y. Web-feeding mechanism for printing-presses. No. 989,871; Apr. 18; Sp. p. 3382; Gaz. vol. 165; p. 590.
Pringle, William A., assignor to The Carter-Crume Company, Limited, Niagara Falls, N. Y. Delivery mechanism for printing-presses. No. 1,010,520; Dec. 5; Sp. p. 272; Gaz. vol. 173; p. 43.
Pringle, William T., Philadelphia, Pa. Electric switch. No. 982,869; Jan. 31; Sp. p. 5917; Gaz. vol. 162; p. 1039.
Prins, Raphael J., Chicago, Ill. Handle. No. 982,220; Jan. 17; Sp. p. 4516; Gaz. vol. 162; p. 757.
Printing Machinery Company, The. (See Berold, Charles E., assignor.)
Prinz, William H., Chicago, Ill. Apparatus for cooling and drying air for use in malt-houses. No. 997,581; July 11; Sp. p. 2038; Gaz. vol. 168; p. 364.
Prinz, William H., Oak Park, assignor of one-third to himself, one-third to C. A. Plamondon, Chicago, and one-third to G. Plamondon, Wheaton, Ill. Steeping grain for malting. No. 994,786; June 13; Sp. p. 1505; Gaz. vol. 167; p. 276.
Prior, John V., San Francisco, Cal. Voting-machine. No. 995,093; June 13; Sp. p. 2196; Gaz. vol. 167; p. 381.
Prior, Matthew, Watertown, assignor of one-fourth to H. L. Frost, Arlington, Mass. Roller cotton-gin. No. 1,009,261; Nov. 21; Sp. p. 3653; Gaz. vol. 172; p. 638.
Prior, Matthew, Watertown, assignor to United Cotton Gin Company, Boston, Mass. Cotton-gin. No. 1,011,488; Dec. 12; Sp. p. 2446; Gaz. vol. 173; p. 417.
Prisant, Louis, Albany, Ga. Combined bicycle lock and bell. No. 999,150; July 25; Sp. p. 5559; Gaz. vol. 168; p. 988.
Prismall, Fred J. (See Cooper and Prismall.)
Pritchard, Albert R. (See Page and Pritchard.)
Pritchard, Albert R. (See Quinn and Pritchard.)
Pritchard, Albert R., Rochester, N. Y. Handle or bail. No. 981,878; Jan. 17; Sp. p. 3786; Gaz. vol. 162; p. 640.
Pritchard, Albert R., Rochester, N. Y. Guard for lantern-globes. No. 981,879; Jan. 17; Sp. p. 3787; Gaz. vol. 162; p. 640.
Pritchard, Albert R., Rochester, N. Y. Lantern attachment. No. 983,567; Feb. 7; Sp. p. 687; Gaz. vol. 163; p. 106.
Pritchard, Albert R., Rochester, N. Y. Tubular lantern. No. 989,048; Apr. 11; Sp. p. 1587; Gaz. vol. 165; p. 278.
Pritchard, Albert R., Rochester, N. Y. Bail-bearing for lanterns. No. 989,800; Apr. 18; Sp. p. 3244; Gaz. vol. 165; p. 567.
Pritchard, Albert R., Rochester, N. Y. Bail-bearing for lanterns. No. 990,389; Apr. 25; Sp. p. 4537; Gaz. vol. 165; p. 801.
Pritchard, Albert R., Rochester, N. Y. Tubular lantern. No. 992,982; May 23; Sp. p. 4623; Gaz. vol. 166; p. 844.
Pritchard, Albert R., Rochester, N. Y. Bail-retainer. No. 992,983; May 23; Sp. p. 4624; Gaz. vol. 166; p. 844.
Pritchard, Albert R., Rochester, N. Y. Bail-bearing for lanterns. No. 992,984; May 23; Sp. p. 4625; Gaz. vol. 166; p. 844.
Pritchard, Albert R., Rochester, N. Y. Lantern. No. 999,465; Aug. 1; Sp. p. 532; Gaz. vol. 169; p. 94.
Pritchard, Albert R., Rochester, N. Y. Lantern. No. 1,003,509; Sept. 19; Sp. p. 2874; Gaz. vol. 170; p. 524.
Pritchard, Albert R., Rochester, N. Y. Lantern. No 1,003,794; Sept. 19; Sp. p. 3503; Gaz. vol. 170; p. 623
Pritchard, Albert R., Rochester, N. Y. Sheet-metal vessel. No. 1,012,276; Dec. 19; Sp. p. 4229; Gaz. vol. 173; p. 725.
Pritchard, Albert R., and T. L. Ferrall, Rochester, N. Y. Handle for tea-kettles. No. 1,004,683; Oct. 3; Sp. p. 288; Gaz. vol. 171; p. 48.
Pritchard, Henry C., Colfax township, Mecosta county, assignor of one-half to D. Roben, Big Rapids, Mich. Mixed paint. No. 1,000,943; Aug. 15; Sp. p. 3712; Gaz. vol. 169; p. 665.
Pritchard, William B., *et al.* (See Johnstone, Lewis, assignor.)
Pritchard, William B., Jr., executor. (See Johnstone, Lewis.)
Pritchard, William C., Lancaster, Pa. Automatic release for grinding-burs. No. 1,011,243; Dec. 12; Sp. p. 1906; Gaz. vol. 173; p. 328.
Proal, Arthur B., Jr., Nutley, assignor to Robins Conveying Belt Co., Passaic, N. J. Belt conveyer. No. 981,471; Jan. 10; Sp. p. 2956; Gaz. vol. 162; p. 479.

Alphabetical list of patentees—Continued.

Probert, Edwin R., and C. E. Stuart, Canton, Ohio. Filing device. No. 993,406; May 30; Sp. p. 5519; Gaz. vol. 166; p. 1016.
Probert, Edwin R., and C. E. Stuart, Canton, Ohio. Filing device. No. 1,010,453; Dec. 5; Sp. p. 97; Gaz. vol. 173; p. 20.
Probes, Charles K., Schenectady, N. Y. Hopper car and wagon. No. 984,105; Feb. 14; Sp. p. 1855; Gaz. vol. 163; p. 318.
Probst, Edwin, Cincinnati, Ohio. Engraver's tool. No. 985,934; Mar. 7; Sp. p. 384; Gaz. vol. 164; p. 60.
Probst, William F., C. E. and J. L. Elsass, Chillicothe, Ohio. Wrench. No. 999,868; Aug. 8; Sp. p. 1339; Gaz. vol. 169; p. 259.
Probst, William G. (See Marschuetz, Probst, and Reed.)
Procious, E. G., *et al.*, trustees. (See Lewis, James S., assignor.)
Procknow, William, Sibley, Iowa. Plow-lifter. No 988,813; Apr. 4; Sp. p. 1118; Gaz. vol. 165; p. 178.
Procner, Jan, Pabianice, Russia. Steam-turbine. No. 989,926; Apr. 18; Sp. p. 3500; Gaz. vol. 165; p. 609.
Procter & Gamble Company, The. (See Kayser, Edwin C., assignor.)
Proctor, Andrew W., New York, N. Y. Whistle. No. 998,985; July 25; Sp. p. 5245; Gaz. vol. 168; p. 935.
Proctor, George C., *et al.* (See Beshore, Jacob B., assignor.)
Procunier, Henry E. (See Sanford, Kopke, and Procunier.)
Procunier, Henry E., Oak Park, Ill. Governor for impact-engines. No. 994,535; June 6; Sp. p. 898; Gaz. vol. 167; p. 149.
Procunier, William L., assignor to Woodstock Safety Chuck Company, Woodstock, Ill. Safety-chuck. No. 1,002,310; Sept. 5; Sp. p. 284; Gaz. vol. 170; p. 39.
Producer Gas Utilities Company. (See Harvey, Charles A., assignor.)
Proelss, Otto, Kansas City, Mo. Apparatus for the manufacture of sulfuric acid. No. 989,537; Apr. 11; Sp. p. 2650; Gaz. vol. 165; p. 446.
Proelss, Otto, Kansas City, Mo., and W. S. Hall, Argentine, Kans. Muriatic-acid tank-car. No. 998,120; July 18; Sp. p. 3310; Gaz. vol. 168; p. 596.
Progressive Manufacturing Company. (See Dayton, James M., assignor.)
Progressive Manufacturing Company. (See Newton, Charles H., assignor.)
Proksa, John, Chicago, Ill. Flying-machine. No. 1,007,486; Oct. 31; Sp. p. 6435; Gaz. vol. 171; p. 1168.
Prokschl, Mathias, Elgin, Tex. Cotton-chopper. No. 997,089; July 4; Sp. p. 1049; Gaz. vol. 168; p. 169.
Prometheus Electric Company, The. (See Bölling, Friedrich, assignor.)
Prose, Chester W., Boulder, Colo. Scaffold. No. 994,424; June 6; Sp. p. 674; Gaz. vol. 167; p. 115.
Prose, H. D., *et al.* (See Wilshusen, August E., assignor.)
Prose, Ray, Alamota, Kans. Draft-equalizer. No. 1,012,435; Dec. 19; Sp. p. 4540; Gaz. vol. 173; p. 777.
Prosser, Frank E., Glennville, Ga. Plane-meter. No. 994,951; June 13; Sp. p. 1891; Gaz. vol. 167; p. 333.
Prosser, Joseph G., assignor to Paramount Knitting Company, Chicago, Ill. Knitting-machine. No. 1,013,058; Dec. 26; Sp. p. 5926; Gaz. vol. 173; p. 1037.
Protective Tread Company. (See Farmer, Theodore P., assignor.)
Proudfit, William S., Jr., Chicago, Ill. Bookbinding. No. 996,360; June 27; Sp. p. 4985; Gaz. vol. 167; p. 878.
Proudfoot, John, Pasadena, Cal. Slide-carrier. No. 994,087; May 30; Sp. p. 6963; Gaz. vol. 166; p. 1249.
Proulx, Charles A. (See Garceau, Elie, assignor.)
Prouty, Enoch, Junction City, Kans. Shock-absorber. No. 1,006,789; Oct. 24; Sp. p. 4919; Gaz. vol. 171; p. 871.
Prouty, Theodore C., Aurora, Ill. Weighing-scale. No. 1,009,093; Nov. 21; Sp. p. 3268; Gaz. vol. 172; p. 578.
Prouty, Theodore C., Aurora, Ill. Weighing-scale. No. 1,009,094; Nov. 21; Sp. p. 3270; Gaz. vol. 172; p. 578.
Prouty, Theodore C., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Means for sustaining sliding doors. No. 1,008,987; Nov. 14; Sp. p. 3027; Gaz. vol. 172; p. 504.
Prouty, Theodore C., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Means for sustaining sliding doors. No. 1,008,988; Nov. 14; Sp. p. 3032; Gaz. vol. 172; p. 504.
Prouty, Theodore C., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Means for sustaining sliding doors. No. 1,008,989; Nov. 14; Sp. p. 3034; Gaz. vol. 172; p. 505.
Prouty, Theodore C., asignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Means for sustaining sliding doors. No. 1,008,990; Nov. 14; Sp. p. 3036; Gaz. vol. 172; p. 505.
Provaglio, Alessandro, Carcina, assignor to Metallurgica Breciana Gia Tempini, Brescia, Italy. Pistol. No. 985,632; Feb. 28; Sp. p. 5153; Gaz. vol. 163; p. 911.
Provandie, Herbert F., Melrose, assignor, by mesne assignments, to The Randall-Faichney Company, Boston, Mass. Lamp and number holder. No. 996,278; June 27; Sp. p. 4790; Gaz. vol. 167; p. 849.

Proven, Albert, Jersey City, N. J., assignor to R. Pattison, New York, N. Y., W. D. Nevins and A. Proven, Jersey City, N. J. Door closer and check. No. 991,889; May 9; Sp. p. 2262; Gaz. vol. 166; p. 403.
Providence Gas Burner Company, The. (See Criggal, John E., assignor.)
Provin, Leonard S., Nevada, Mo. Liquid-fuel burner. No. 989,640; Apr. 18; Sp. p. 2897; Gaz. vol. 165; p. 511.
Provost, Peter, Milwaukee, Wis. Grain drier and scourer. No. 1,000,120; Aug. 8; Sp. p. 1919; Gaz. vol. 169; p. 346.
Prowse, George O. (See Crowe and Prowse.)
Proximity Manufacturing Company. (See Greer, Ulysses S., assignor.)
Pruden, Allan K., assignor to The Metal Shelter Company, St. Paul, Minn. Sheet-metal construction. No. 1,008,491; Nov. 14; Sp. p. 1960; Gaz. vol. 172; p. 335.
Pruden, George S., Paterson, N. J., assignor to P. Gerli, New York, N. Y. Loom. No. 1,003,202; Sept. 12; Sp. p. 2238; Gaz. vol. 170; p. 385.
Prueher, Joseph G., *et al.* (See Spencer, Oscar A., assignor.)
Pruitt, Abraham J., Portland, Oreg. Bed-spring tightener. No. 984,391; Feb. 14; Sp. p. 2458; Gaz. vol. 163; p. 416.
Prunty, Jameson L., Wamego, Kans. Smoking-pipe. No. 1,010,951; Dec. 5; Sp. p. 1221; Gaz. vol. 173; p. 193.
Prussak, Marcus, and C. Pfeiffer, Philadelphia, Pa. Automatic shuttle-controlling mechanism for looms. No. 991,169; May 2; Sp. p. 729; Gaz. vol. 166; p. 123.
Pruyn, Francis L., assignor to The Underpinning Company, New York, N. Y. Forming concrete piles. No. 980,436; Jan. 3; Sp. p. 537; Gaz. vol. 162; p. 91.
Pruyn, William H., Jr., Chicago, Ill. Concrete railway-tie. No. 998,550; July 18; Sp. p. 4220; Gaz. vol. 168; p. 748.
Pryce, Edmund H., New York, N. Y. Electromagnetic massage device. No. 985,547; Feb. 28; Sp. p. 4990; Gaz. vol. 163; p. 883.
Pryor, Henry. (See Thom and Pryor.)
Pryor, Joseph H., New York, N. Y. Electroplated wooden body and similar porous article. No. 1,000,037; Aug. 8; Sp. p. 1690; Gaz. vol. 169; p. 317.
Pryor, Lafayette M., and J. L. Trapp, Frankfort, Ind. Electric welding-machine. No. 984,603; Feb. 21; Sp. p. 2944; Gaz. vol. 163; p. 523.
Prytz, Emil, Sharon, N. D. Insect-exterminator. No. 1,008,196; Nov. 7; Sp. p. 1171; Gaz. vol. 172; p. 192.
Psilander, Charles A., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Suspension means for electric motors. No. 981,795; Jan. 17; Sp. p. 3597; Gaz. vol. 162; p. 611.
Psilander, Charles A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Vehicle-motor. No. 993,619; May 30; Sp. p. 5992; Gaz. vol. 166; p. 1090.
Ptaschinski, Johann, St. Petersburg, Russia. Spur. No. 1,006,501; Oct. 24; Sp. p. 4291; Gaz. vol. 171; p. 770.
Public Safety Company. (See Lumley and Hillman, assignors.)
Public Safety Company. (See McKeown, Joseph B., assignor.)
Publicker, Philip, and H. Segal, Philadelphia, Pa. Combined belt-buckle and pocket-book. No. 1,013,059; Dec. 26; Sp. p. 5928; Gaz. vol. 173; p. 1037.
Pucall, Charles, Cheboygan, Mich. Plow attachment. No. 992,591; May 16; Sp. p. 3799; Gaz. vol. 166; p. 678.
Pucall, Charles, Cheboygan, Mich. Wire-stretcher. No. 1,009,175; Nov. 21; Sp. p. 3422; Gaz. vol. 172; p. 605.
Puckett, Almor M., San Antonio, Tex. Signal-lamp for vehicles. No. 1,003,949; Sept. 19; Sp. p. 3857; Gaz. vol. 170; p. 677.
Puckett, Almor M., San Antonio, Tex. Combined signal and sign-displaying lamp for vehicles. No. 1,005,306; Oct. 10; Sp. p. 1611; Gaz. vol. 171; p. 289.
Puddington, Thomas E., assignor of one-half to C. L. Briggs, Rochester, N. Y. Carbureter. No. 1,011,244; Dec. 12; Sp. p. 1908; Gaz. vol. 173; p. 329.
Puff, Carl, Spandau, Germany. Bursting shrapnel with grenade charge. No. 1,006,875; Oct. 24; Sp. p. 5115; Gaz. vol. 171; p. 902.
Puff, Robert H., St. Louis, Mo. Barrel-fastening. No. 1,010,315; Nov. 28; Sp. p. 5845; Gaz. vol. 172; p. 1041.
Puffer, Luther W., Medford, Mass., assignor to Puffer Manufacturing Company. Insulating-receptacle. No. 999,672; Aug. 1; Sp. p. 938; Gaz. vol. 169; p. 164.
Puffer Manufacturing Company. (See Murphy, Edward E., assignor.)
Puffer Manufacturing Company. (See Puffer, Luther W., assignor.)
Puggel, August, Schwelm, Germany. Polishing-machine for woodwork. No. 995,179; June 13; Sp. p. 2358; Gaz. vol. 167; p. 408.
Pugh, Burton H., Topeka, Kans. Fountain-mop. No. 1,003,008; Sept. 12; Sp. p. 1834; Gaz. vol. 170; p. 317.
Pugliatti, Thomas P. (See Restucci, Giuseppe, assignor.)
Puha, George, Buffalo, N. Y. Plow. No. 1,009,439; Nov. 21; Sp. p. 4075; Gaz. vol. 172; p. 702.
Pujol, Frank, Portage Des Sioux, assignor of one-half to J. J. Leu, Machens, Mo. Lamp-burner. No. 1,004,197; Sept. 26; Sp. p. 4470; Gaz. vol. 170; p. 791.
Pulfrich, Carl. (See Cordeiro and Pulfrich.)

Alphabetical list of patentees—Continued.

Pulliam, Oswald S., assignor to Pittsburgh Equipment Company, Pittsburg, Pa. Side-frame construction. No. 987,013; Mar. 14; Sp. p. 2638; Gaz. vol. 164; p. 456.
Pulliam, Oswald S., assignor to Pittsburgh Equipment Company, Pittsburg, Pa. Car-truck side frame. No. 987,014; Mar. 14; Sp. p. 2640; Gaz. vol. 164; p. 456.
Pulliam, Oswald S., assignor to Pittsburgh Equipment Company, Pittsburg, Pa. Car body and underframe construction. No. 999,256; Aug. 1; Sp. p. 128; Gaz. vol. 169; p. 24.
Pulliam, Seeley T., Crowley, La. Combination-sterilizer. No. 982,528; Jan. 24; Sp. p. 5198; Gaz. vol. 162; p. 896.
Pulliam, William Z., and F. Van Pelt, Randsburg, Cal. Train-pipe coupling. No. 992,059; May 9; Sp. p. 2586; Gaz. vol. 166; p. 460.
Pulliam, William Z., and F. Van Pelt, Randsburg, Cal. Train-pipe coupling. No. 1,009,570; Nov. 21; Sp. p. 4339; Gaz. vol. 172; p. 741.
Pullman Company, The. (See Pearson, John, assignor.)
Pullman Company, The. (See Schneider, Max M., assignor.)
Pullman Company, The. (See Tinsley, Robert, assignor.)
Pullman Motor Car Co. (See Baum, Henry G., assignor.)
Pulsometer Engineering Company Limited, The. (See Adcock, Edward A., assignor.)
Pulvermacher & Bremermann G. m. b. H. (See Spiller, Wilhelm, assignor.)
Pumphrey, Walter H., New York, N. Y., assignor to American Graphophone Co., Bridgeport, Conn. Talking-machine. No. 1,006,128; Oct. 17; Sp. p. 3422; Gaz. vol. 171; p. 608.
Puncture Proof Tire Company. (See Hammond, Bennett W., assignor.)
Purcell, William F. (See Harris, William J., assignor.)
Purchas, Fred A., McGraw, and A. C. La May, Rochester, N. Y. Paper-box-making machine. No. 982,744; Jan. 24; Sp. p. 5623; Gaz. vol. 162; p. 966.
Purdy, Cyrus B., Minatare, Nebr. Hay-sweep. No. 992,060; May 9; Sp. p. 2588; Gaz. vol. 166; p. 461.
Purdy, Frederick, Chicago, Ill. Time-stamp. No. 991,240; May 2; Sp. p. 876; Gaz. vol. 166; p. 149.
Purdy, Frederick, assignor to T. B. Jeffery, Kenosha, Wis. Apparatus for mixing and containing liquids. No. 992,802; May 23; Sp. p. 4214; Gaz. vol. 166; p. 778.
Purdy, Hiram E., Rockwell City, and E. W. Miller, Des Moines, assignors of four-tenths to said Purdy, two-tenths to J. H. Bradt, one-tenth to T. W. McCreary, one-tenth to E. Z. Smith, one-tenth to A. F. Dean, and one-tenth to G. L. Brower, Rockwell City, Iowa. Corn-harvester. No. 981,223; Jan. 10; Sp. p. 2424; Gaz. vol. 162; p. 393.
Purdy, Hiram E., Rockwell City, and E. W. Miller, Des Moines, assignors of four-tenths to said Purdy, two-tenths to J. H. Bradt, one-tenth to T. W. McCreary, one-tenth to E. Z. Smith, one-tenth to A. F. Dean, and one-tenth to G. L. Brower, Rockwell City, Iowa. Corn-harvester. No. 981,224; Jan. 10; Sp. p. 2426; Gaz. vol. 162; p. 393.
Pure Food Process Company, The. (See Schmitt, Edward D., assignor.)
Purser, James E., Windsor, Ontario, Canada, assignor to H. J. Morehead, Detroit, Mich. Steam-trap. No. 988,385; Apr. 4; Sp. p. 207; Gaz. vol. 165; p. 34.
Purser, James E., Windsor, Ontario, Canada, assignor to H. J. Morehead, Detroit, Mich. Steam-trap. No. 1,000,344; Aug. 8; Sp. p. 2391; Gaz. vol. 169; p. 421.
Purtle, Albert D., Salem, W. Va. Attachment to auto gas-regulators. No. 1,001,683; Aug. 29; Sp. p. 5306; Gaz. vol. 169; p. 980.
Purves, Edward W., Chicago, Ill. Safety hoisting-hook. No. 1,010,952; Dec. 5; Sp. p. 1222; Gaz. vol. 173; p. 193.
Pusey, Walter D., Woodlupine, near Perth, assignor of one-half to A. R. Fleming, Albany, Western Australia, Australia. Preserving milk. No. 1,008,063; Nov. 7; Sp. p. 896; Gaz. vol. 172; p. 144.
Pusterla, Attilio, Bathbeach, assignor of one-half to S. Schenkein, New York, N. Y. Aeroplane. No. 996,425; June 27; Sp. p. 5146; Gaz. vol. 167; p. 901.
Pusterla, Attilio, Fort Wadsworth, assignor of one-half to S. Schenkein, New York, N. Y. Flying-machine. No. 1,009,855; Nov. 28; Sp. p. 4909; Gaz. vol. 172; p. 887.
Puterbaugh, Johnson W., *et al.* (See Wade, William N., assignor.)
Putman, Alice, Chicago, Ill. Hand weaving device. No. 983,764; Feb. 7; Sp. p. 1085; Gaz. vol. 163; p. 174.
Putman, Lewis S., Stacy, Tex. Steam-engine. No. 1,002,449; Sept. 5; Sp. p. 611; Gaz. vol. 170; p. 87.
Putnam, Clesson W. (See Perkins and Putnam.)
Putnam, Clesson W. (See Perkins, Putnam, and Munson.)
Putnam Foundry and Machine Company. (See Turner, William J., assignor.)
Putnam, George B., Searsport, Me., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 985,284; Feb. 28; Sp. p. 4392; Gaz. vol. 163; p. 792.
Putnam, George B., Searsport, Me., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 998,716; July 25; Sp. p. 4604; Gaz. vol. 168; p. 839.
Putnam, James K., Lawrenceville, Ill. Resilient connection. No. 1,002,448; Sept. 5; Sp. p. 609; Gaz. vol. 170; p. 87.
Putnam, Thomas N., *et al.* (See Paton, Robert, assignor.)
Putsch, August. (See Schwab, Gustav, assignor.)
Pyewell, Edward P. (See Gadd, Charles J., assignor.)
Pyle, George W., Geneva, Ind. Metallic stud. No. 993,102; May 23; Sp. p. 4888; Gaz. vol. 166; p. 886.
Pym, Charles F., Essex, Ontario, Canada, assignor of one-half to Krentler Brothers Company, Detroit, Mich. Lasting-machine. No. 1,010,394; Nov. 28; Sp. p. 6013; Gaz. vol. 172; p. 1067.
Pym, Charles F., Essex, Ontario, Canada, assignor of one-half to Krentler Brothers Company, Detroit, Mich. Lasting-machine. No. 1,010,800; Dec. 5; Sp. p. 889; Gaz. vol. 173; p. 140.
Pypes, William C., Kansas City, Mo., assignor to Armour & Company, Chicago, Ill. Overhauling meats during curing. No. 987,488; Mar. 21; Sp. p. 3652; Gaz. vol. 164; p. 651.
Pyrene Manufacturing Co. (See Davidson, Edward M., assignor.)
"Pyrotrass" Société Anonyme pour la Fabrication du Trass Artificial (Breveté) et ses Applications Industrielles. (See Seghers, Adolphe, assignor.)
Pytterud, Frants. (See Jonassen and Pytterud.)
Q. & C. Company. (See Allen, John H., assignor.)
Quade, Fritz, assignor to The Firm of J. A. Wülfing, Berlin, Germany. Producing non-hygroscopic albuminous preparations. No. 1,003,151; Sept. 12; Sp. p. 2120; Gaz. vol. 170; p. 365.
Quaker Manufacturing Company. (See Hunt, Thomas E., assignor.)
Quambusch, Hermann J., Nächstebreck, near Barmen-Rittershausen, Germany. Lace-braiding machine. No. 986,313; Mar. 7; Sp. p. 1160; Gaz. vol. 164; p. 187.
Queary, William A., assignor of one-half to S. G. Steele, Add, Ky. Railway-gate-operating mechanism. No. 980,672; Jan. 3; Sp. p. 1081; Gaz. vol. 162; p. 172.
Queen, Claude P. (See Kavanagh and Queen.)
Queenan, William, Aurora, Ill. Splice. No. 1,005,467; Oct. 10; Sp. p. 1950; Gaz. vol. 171; p. 345.
Quelch, Malcolm. (See Sharp and Quelch.)
Quellennec, Edouard M., assignor of one-half to E. N. Vermond, Paris, France. Rotary automobile plowing and harrowing machine. No. 988,030; Mar. 28; Sp. p. 4868; Gaz. vol. 164; p. 865.
Quellmalz, Louis, St. Louis, Mo. Ruling-form for printers' use. No. 1,004,590; Oct. 3; Sp. p. 86; Gaz. vol. 171; p. 16.
Queneau, Augustin L. J., Overbrook, assignor to Queneau Electric Zinc Furnace Company, Philadelphia, Pa. Metallurgy of zinc ores and compounds. No. 1,006,876; Oct. 24; Sp. p. 5117; Gaz. vol. 171; p. 902.
Queneau, Augustin L. J., assignor to Queneau Electric Zinc Furnace Company, Philadelphia, Pa. Metallurgy of zinc. No. 1,006,877; Oct. 24; Sp. p. 5125; Gaz. vol. 171; p. 903.
Queneau Electric Zinc Furnace Company. (See Queneau, Augustin L. J., assignor.)
Quentell, William P., New York, N. Y. Calculating-machine. No. 992,592; May 16; Sp. p. 3800; Gaz. vol. 166; p. 678.
Quentell, William P., Stamford, Conn., assignor, by mesne assignments, to A. B. Dick Company, Chicago, Ill. Calculating-machine. No. 1,007,487; Oct. 31; Sp. p. 6436; Gaz. vol. 171; p. 1169.
Quentell, William P., New York, N. Y., and F. Judge, Norwalk, Conn., assignors, by mesne assignments, to A. B. Dick Company, Chicago, Ill. Calculating-machine. No. 1,007,488; Oct. 31; Sp. p. 6447; Gaz. vol. 171; p. 1169.
Quenzer, Arthur, Brooklyn, N. Y. Arch-supporter. No. 987,599; Mar. 21; Sp. p. 3864; Gaz. vol. 164; p. 688.
Quester, Herman A., Nampa, Idaho. Stocking-drying form. No. 1,002,081; Aug. 29; Sp. p. 6154; Gaz. vol. 169; p. 1113.
Questroy, Henry A., New York, N. Y. Mouse-trap. No. 1,002,082; Aug. 29; Sp. p. 6156; Gaz. vol. 169; p. 1113.
Quick, Alfred A., Clifton Hill, and C. J. Spencer, Melbourne, Victoria, Australia. Apparatus for controlling and registering the supply of liquids into vessels for containing the same. No. 1,010,953; Dec. 5; Sp. p. 1223; Gaz. vol. 173; p. 193.
Quick, Archie W., Allentown, Pa. Automatic bell-ringer. No. 993,196; May 23; Sp. p. 5071; Gaz. vol. 166; p. 914.
Quick, Harry C., Los Angeles, Cal., assignor to Buster Quick Mill Company. Ore-crushing machine. No. 988,505; Apr. 4; Sp. p. 454; Gaz. vol. 165; p. 74.
Quick, William H. (See Branson, Quick, and Mackell.)
Quickel, Allen E. (See Quickel, Edwin G. and A. E.)
Quickel, Allen E., York, Pa., assignor of one-half to J. S. Rawlings, Jr., Baltimore, Md. Harrow-tooth. No. 1,007,604; Oct. 31; Sp. p. 6713; Gaz. vol. 171; p. 1208.
Quickel, Allen E. and E. G., York, Pa. Weeder. No. 1,001,442; Aug. 22; Sp. p. 4814; Gaz. vol. 169; p. 867.
Quickel, Edwin G. (See Quickel, Allen E. and E. G.)
Quickel, Edwin G. and A. E., York, Pa. Lime-spreader. No. 1,010,454; Dec. 5; Sp. p. 100; Gaz. vol. 173; p. 20.

Alphabetical list of patentees—Continued.

Quidor, Arthur N., New York, N. Y. Mercantile recording apparatus. No. 980,673; Jan. 3; Sp. p. 1084; Gaz. vol. 162; p. 172.
Quiggin, Daniel A., Liverpool, England. Surface condenser. No. 989,415; Apr. 11; Sp. p. 2383; Gaz. vol. 165; p. 402.
Quigley, Charles P., West Mentor, Ohio. Stove. No. 998,800; July 25; Sp. p. 4804; Gaz. vol. 168; p. 868.
Quilty, Flora, and W. H. Haskins, San Jose, Cal. Window-sash. No. 1,009,571; Nov. 21; Sp. p. 4341; Gaz. vol. 172; p. 747.
Quimby, Edward C., and C. Anderson, Minneapolis, Minn.; said Anderson assignor to said Quimby. Bill-hook. No. 1,007,731; Nov. 7; Sp. p. 168; Gaz. vol. 172; p. 28.
Quimby, Mark J., Bristol, Vt. Hydraulic power apparatus. No. 990,390; Apr. 25; Sp. p. 4538; Gaz. vol. 165; p. 801.
Quimby, William D., Somerville, Mass. Watering-trough. No. 993,273; May 23; Sp. p. 5226; Gaz. vol. 166; p. 937.
Quin, Joseph E. (See Alfson, Andrew, assignor.)
Quindry, John M., Springerton, Ill. Self-weighing device for hay-balers. No. 990,004; Apr. 18; Sp. p. 3678; Gaz. vol. 165; p. 637.
Quinlan, Charles E., Evanston, Ill. Folding table. No. 991,644; May 9; Sp. p. 1757; Gaz. vol. 166; p. 322.
Quinlan, Joseph J., Alliance, Ohio. Anticreeper for railway-rails. No. 986,860; Mar. 14; Sp. p. 2342; Gaz. vol. 164; p. 406.
Quinn, Edward, Port Huron, Mich. Detachable handle for suit-cases and traveling-bags, &c. No. 988,896; Apr. 4; Sp. p. 1268; Gaz. vol. 165; p. 203.
Quinn, John C., New York, N. Y. Steam-plant system. No. 987,168; Mar. 21; Sp. p. 2975; Gaz. vol. 164; p. 540.
Quinn, John J., Denver, Colo. Composite railway-tie. No. 1,010,316; Nov. 28; Sp. p. 5846; Gaz. vol. 172; p. 1041.
Quinn, Lawrence R., Newark, and A. R. Pritchard, Rochester; said Quinn assignor to Reed Manufacturing Company, Newark, N. Y. Attachment for washboilers. No. 992,247; May 16; Sp. p. 3048; Gaz. vol. 166; p. 556.
Quinn, Marshall A., and L. C. Stewart, Roanoke, Va. Culvert. No. 995,180; June 13; Sp. p. 2359; Gaz. vol. 167; p. 409.
Quinn, Stephen M., Iola, Kans. Gas-producer. No. 1,002,311; Sept. 5; Sp. p. 285; Gaz. vol. 170; p. 40.
Quinn, Thomas, Milford, assignor to Boston Machine Works Company, Lynn, Mass. Beading-machine for shoe manufacture. No. 991,368; May 2; Sp. p. 1159; Gaz. vol. 166; p. 193.
Quinn, Thomas, Milford, assignor to Boston Machine Works Company, Lynn, Mass. Beading-cementer. No. 991,369; May 2; Sp. p. 1162; Gaz. vol. 166; p. 194.
Quinn, Vincent J., and W. E. Arndt, assignors of one-fourth to B. H. Hickey, Detroit, Mich. Valve. No. 997,090; July 4; Sp. p. 1051; Gaz. vol. 168; p. 169.
Quinn, William F., Providence, R. I. Ear-protector. No. 993,620; May 30; Sp. p. 5994; Gaz. vol. 166; p. 1090.
Quint, Philip, Boston, Mass. Safety-razor. No. 1,009,572; Nov. 21; Sp. p. 4343; Gaz. vol. 172; p. 747.
Quirin, Emil J. F., Tioga Center, N. Y. Leak-alarm for pneumatic tires. No. 983,837; Feb. 7; Sp. p. 1251; Gaz. vol. 163; p. 199.
Quirk, Thomas J., Buffalo, N. Y. Guard or protector for locomotive-cabs, &c. No. 1,004,077; Sept. 26; Sp. p. 4196; Gaz. vol. 170; p. 749.
Quiry, Mortmore, Morganfield, Ky. Disk-sharpener. No. 1,004,817; Oct. 3; Sp. p. 575; Gaz. vol. 171; p. 95.
Qvanten, Jost von. (See Ringbom, Ossian A., assignor.)
R. Hoe and Co. (See Church, George W., assignor.)
R. Hoe and Co. (See Cooper, Ellis W., assignor.)
R. Hoe and Co. (See Cruse, Amandus H., assignor.)
R. Hoe and Co. (See Main, William J., assignor.)
R. Hoe and Co. (See Pancoast, George E., assignor.)
R. Hoe and Co. (See Read, George F., assignor.)
R. Hoe and Co. (See Roesen, Oscar, assignor.)
R. Hoe and Co. (See Sheldon, Edward P., assignor.)
R. Thomas and Sons Company, The. (See Kenney, Benjamin D., assignor.)
R. Thomas and Sons Company, The. (See Sandford, Joseph A., Jr., assignor.)
R. Wedekind & Co. m. b. H. (See Caspari, Rudolf, assignor.)
R. Wedekind & Co. m. b. H. (See Nydegger, Otto, assignor.)
R. E. Dietz Company. (See Betts, Charles L., assignor.)
R. F. Simmons Company. (See Smith, Ezra S., assignor.)
R. G. Peters Manufacturing Company. (See Davis, William F., assignor.)
R. H. Long Machinery Company. (See Doidge, John J., assignor.)
R. H. Mayland Theatrical and Specialty Manufacturing Company. (See Sanneman and Mayland, assignors.)
R. K. Le Blond Machine Tool Co. (See Le Blond and Groene, assignors.)
R. K. Le Blond Machine Tool Company. (See Groene and Pierle, assignors.)
R. P. K. Specialty Company. (See Reach, Milton B., assignor.)
R. & W. Company. (See Reinoehl and Weaver, assignors.)
R. & W. Company. (See Weaver and Miller, assignors.)
Raabe, Frank A., Stanton, Nebr. Fabric holder and exhibitor. No. 985,060; Feb. 21; Sp. p. 3859; Gaz. vol. 163; p. 681.
Rabbeth, Francis J., Redlands, Cal. Device for attaching fish-lines. No. 1,004,198; Sept. 26; Sp. p. 4471; Gaz. vol. 170; p. 791.
Rabbidge, Parnell, North Sydney, New South Wales, Australia. Electric secondary battery. No. 985,368; Feb. 28; Sp. p. 4570; Gaz. vol. 163; p. 819.
Rabbit, Charles W., Amboy, Ill. Attachment for planters. No. 1,008,064; Nov. 7; Sp. p. 896; Gaz. vol. 172; p. 144.
Rabbitt, James A., Yokohama, Japan. Talking-machine. No. 993,793; May 30; Sp. p. 6377; Gaz. vol. 166; p. 1150.
Rabbitt, James A., Yokohama, Japan. Motor for talking-machines. No. 996,522; June 27; Sp. p. 5317; Gaz. vol. 167; p. 932.
Raber, Charles, and G. Gundlach, New York, N. Y. Fabric-clamp for umbrellas. No. 989,416; Apr. 11; Sp. p. 2385; Gaz. vol. 165; p. 402.
Raber, Joseph, Poplar Bluff, assignor to Dalton Adding Machine Company, St. Louis, Mo. Spring-tension regulator. No. 1,005,780; Oct. 10; Sp. p. 2642; Gaz. vol. 171; p. 455.
Raber, Joseph, Poplar Bluff, assignor to Dalton Adding Machine Company, St. Louis, Mo. Governor for typewriter carriages. No. 1,005,781; Oct. 10; Sp. p. 2644; Gaz. vol. 171; p. 456.
Raber, Joseph, Poplar Bluff, assignor to Dalton Adding Machine Company, St. Louis, Mo. Line-stop and signal device. No. 1,005,782; Oct. 10; Sp. p. 2645; Gaz. vol. 171; p. 456.
Raber, Joseph, Poplar Bluff, assignor to Dalton Adding Machine Company, St. Louis, Mo. Escapement for type-writers and recording-machines. No. 1,005,783; Oct. 10; Sp. p. 2647; Gaz. vol. 171; p. 456.
Raber, Joseph, Poplar Bluff, assignor to Dalton Adding Machine Company, St. Louis, Mo. Escapement for type-writers and recording-machines. No. 1,005,784; Oct. 10; Sp. p. 2649; Gaz. vol. 171; p. 457.
Raber, Oliver P., Kendallville, and I. Grogg, Auburn, Ind. Feed-regulator for concrete-mixers. No. 980,834; Jan. 3; Sp. p. 1402; Gaz. vol. 162; p. 225.
Rabiger, Emil. (See Rabiger, Robert and E.)
Rabiger, Robert and E., Philadelphia, Pa. Spigot. No. 995,903; June 20; Sp. p. 3959; Gaz. vol. 167; p. 687.
Rabsilber, William, New York, N. Y. Valve mechanism. No. 998,801; July 25; Sp. p. 4805; Gaz. vol. 168; p. 869.
Rabsilber, William, New York, N. Y. Operating internal-combustion engines. No. 1,005,118; Oct. 3; Sp. p. 1163; Gaz. vol. 171; p. 197.
Rabsilber, William, Brooklyn, N. Y. Internal-combustion engine. No. 1,003,795; Sept. 19; Sp. p. 3504; Gaz. vol. 170; p. 623.
Racine-Sattley Company. (See Weaver, Ira A., assignor.)
Raclot, Jules, and C. Enderlin, St.-Maur-des-Fossés, Seine, France. Rotary pump. No. 1,002,176; Aug. 29; Sp. p. 6325; Gaz. vol. 169; p. 1143.
Raczka, Joseph, assignor to C. F. Wentworth, Portland, Oreg. Window. No. 996,940; July 4; Sp. p. 712; Gaz. vol. 168; p. 116.
Radcliffe, Carlton R., assignor, by mesne assignments, to The Scientific Research Co., New York, N. Y. Hydraulic power-transmitting apparatus. No. 984,849; Feb. 21; Sp. p. 3451; Gaz. vol. 163; p. 610.
Radell, John J., Utica, N. Y. Muffler. No. 990,165; Apr. 18; Sp. p. 3994; Gaz. vol. 165; p. 689.
Rademacher, Johann C. W., Hamburg, Germany, assignor to American Kitchen Products Company, New York, N. Y. Meat and vegetable extract in the form of portable unit rations and producing the same. No. 1,007,142; Oct. 31; Sp. p. 5714; Gaz. vol. 171; p. 1048.
Rademacher, Joseph, Milwaukee, Wis. Charcoal-stove. No. 997,326; July 11; Sp. p. 1542; Gaz. vol. 168; p. 280.
Raders, Joseph F., assignor of one-half to A. R. Brandly, New York, N. Y. Compensating device. No. 986,498; Mar. 14; Sp. p. 1580; Gaz. vol. 164; p. 281.
Radial Power Hammer Company, The. (See Sutherland and Brown, assignors.)
Radinger, Carl von. (See Wagner and Radinger.)
Radinse, Rudolf, assignor to The Manufacturers' Brush Company, Cleveland, Ohio. Rotary brush. No. 988,506; Apr. 4; Sp. p. 456; Gaz. vol. 165; p. 74.
Radovsky, David R. (See Williams, Newton, assignor.)
Radtke, Albert A. (See Osborn and Roach, assignors.)
Radtke, Bruno, Chicago, Ill. Stopper-extractor. No. 985,548; Feb. 28; Sp. p. 4993; Gaz. vol. 163; p. 883.
Radtke, Gladys, Chicago, Ill. Egg-baker. No. 999,257; Aug. 1; Sp. p. 128; Gaz. vol. 169; p. 24.
Rae, John, assignor to Kearns Manufacturing Company, Philadelphia, Pa. Dress-form. No. 991,241; May 2; Sp. p. 878; Gaz. vol. 166; p. 149.
Rae, John, assignor to Kearns Manufacturing Company, Philadelphia, Pa. Adjustment for dress-forms. No. 991,242; May 2; Sp. p. 886; Gaz. vol. 166; p. 150.
Rae, John, assignor to Kearns Manufacturing Company, Philadelphia, Pa. Dress-form. No. 991,455; May 2; Sp. p. 1334; Gaz. vol. 166; p. 223.
Rae, John C. (See Roney and Rae.)
Raeder, Heinrich. (See Thomaschewski, Raeder, Mieg, and Fischer.) (Reissue.)

Alphabetical list of patentees—Continued.

Raeder, William L. (See Norton, James A., assignor.)
Raettig, Alfred W., assignor to H. B. Jacobs, Sturgis, Mich. Velocipede. No. 1,012,707; Dec. 26; Sp. p. 5115; Gaz. vol. 173; p. 917.
Raffensperger, Hiram J. (See Kuster, William F., assignor.)
Rafter, James M., New York, N. Y. Rail-fastening device. No. 1,011,245; Dec. 12; Sp. p. 1911; Gaz. vol. 173; p. 329.
Rafter, James M., New York, N. Y., assignor to Lackawanna Steel Company. Sectional or sheet piling. (Reissue.) No. 13,259; June 20; Sp. p. 4234; Gaz. vol. 167; p. 736.
Rager, Jonathan E., *et al.* (See Haws, William H., assignor.)
Raggio, Charles A., assignor of one-half to L. G. Raggio, Chicago, Ill. Garbage-crematory. No. 983,765; Feb. 7; Sp. p. 1088; Gaz. vol. 163; p. 174.
Raggio, Charles A., assignor of one-half to L. G. Raggio, Chicago, Ill. Waste-burner. No. 989,417; Apr. 11; Sp. p. 2385; Gaz. vol. 165; p. 403.
Raggio, Charles A., assignor of one-half to L. G. Raggio, Chicago, Ill. Refuse-box. No. 993,794; May 30; Sp. p. 6379; Gaz. vol. 166; p. 1150.
Raggio, Louis G. (See Raggio, Charles A., assignor.)
Ragland, Eugene. (See Merritt, George T., assignor.)
Ragona, Salvador, New York, N. Y. Wrapping mechanism for cigarette-cork-tipping machines. No. 1,009,341; Nov. 21; Sp. p. 3826; Gaz. vol. 172; p. 667.
Ragot, Louis F., Milford, Pa. Balancing-tank. No. 1,003,796; Sept. 19; Sp. p. 3507; Gaz. vol. 170; p. 624.
Ragsdale, Charles R., St. Louis, Mo. Safety-razor. No. 987,743; Mar. 28; Sp. p. 4195; Gaz. vol. 164; p. 766.
Ragsdale, Charles R., St. Louis, Mo. Tire-protector. No. 1,005,873; Oct. 17; Sp. p. 2856; Gaz. vol. 171; p. 519.
Ragsdale, Charles W., assignor of seven-sixteenths to J. M. McCarthy, Glenwood Springs, Colo. Shoemaker's jack. No. 991,456; May 2; Sp. p. 1345; Gaz. vol. 166; p. 223.
Ragsdale, William A., Tie Plant, Miss. Rotary motor. No. 1,012,155; Dec. 19; Sp. p. 3958; Gaz. vol. 173; p. 683.
Ragsdale, William E., Artesia, N. Mex. Display-stand. No. 1,007,972; Nov. 7; Sp. p. 722; Gaz. vol. 172; p. 113.
Ragsdale, William G., Jamestown, N. C. Top roll for spinning-machines. No. 981,307; Jan. 10; Sp. p. 2600; Gaz. vol. 162; p. 423.
Ragsdale, William G., Jamestown, N. C. Cleaning device for lifting-rods of spinning-machines. No. 989,641; Apr. 18; Sp. p. 2898; Gaz. vol. 165; p. 511.
Rahder, Jean L. G., Dusseldorf, Germany. Shaft-coupling. No. 982,299; Jan. 24; Sp. p. 4713; Gaz. vol. 162; p. 815.
Rahm, Robert C. (See Thun and Rahm.)
Rahn, Albert, Neustadt, Ontario, Canada. Nut-lock. No. 986,217; Mar. 7; Sp. p. 958; Gaz. vol. 164; p. 155.
Rahner, Ernest B., Cazenovia, Ill. Combined cultivator and seeder. No. 992,248; May 16; Sp. p. 3048; Gaz. vol. 166; p. 557.
Rahr, William, Jr. (See Ulrich, Julius M., assignor.)
Rahr, William, Jr. (See Ulrich and Rahr.)
Rahtjen, Arnold, Hamburg, Germany. Preparing indoxyls and indigo coloring-matters. No. 984,442; Feb. 14; Sp. p. 2554; Gaz. vol. 163; p. 433.
Raiche, Andrew, assignor to Atlas Tack Company, Fairhaven, Mass. Machine for making lacing-hooks. No. 980,437; Jan. 3; Sp. p. 540; Gaz. vol. 162; p. 91.
Raiff, H. L., *et al.* (See Rosean, John H., assignor.)
Rail Joint Company, The. (See Braine, Bancroft G., assignor.)
Rail Joint Company, The. (See Brothers, James H., assignor.)
Rail Joint Company, The. (See Buck, Christian J., assignor.)
Rail Joint Company, The. (See Dalton, Philip J., assignor.)
Rail Joint Company, The. (See Ogilvy and Smith, assignors.)
Rail Joint Company, The. (See Schermerhorn, Edwards F., assignor.)
Rail Joint Company, The. (See Stanford, Arthur L., assignor.)
Rail Joint Company, The. (See Wolhaupter, Benjamin, assignor.)
Rail Laying Machine Company. (See Reinehr, John, assignor.)
Railroad Supply Company, The. (See Vogel, Eugene W., assignor.)
Railway Materials Company, The. (See True, Charles H., assignor.)
Railway Specialty & Supply Company. (See Moore, Philip W., assignor.)
Railway Telephone & Electric Company. (See Lademann, Otto T., assignor.)
Rainalter, Rudolph, St. Joseph, Mo. Oscillatory motor. No. 1,001,684; Aug. 29; Sp. p. 5307; Gaz. vol. 169; p. 980.
Raine, Arthur E., Bakersfield, Cal. Casing-perforator. No. 984,702; Feb. 21; Sp. p. 3156; Gaz. vol. 163; p. 558.
Rainey, Edward T. (See Butcher, James M., assignor.)
Rains, Eleazer I., New York, N. Y. Machine for sharpening razor-blades. No. 988,285; Mar. 28; Sp. p. 5362; Gaz. vol. 164; p. 949.
Rains, Solomon B., assignor of one-half to J. Keeton, Brooklyn, N. Y. Treating silk. No. 992,803; May 23; Sp. p. 4217; Gaz. vol. 166; p. 779.
Rains, William H., Hartford, Ark. Mining-machine. No. 997,699; July 11; Sp. p. 2293; Gaz. vol. 168; p. 406.
Raisin, Victor, assignor to La Société Compagnie Industrielle des Alcools de l'Ardèche, Paris, France. Rendering sawdust absorbent. No. 998,858; July 25; Sp. p. 4944; Gaz. vol. 168; p. 889.
Rait, George B., Minneapolis, Minn. Locomotive. No. 996,031; June 20; Sp. p. 4207; Gaz. vol. 167; p. 731.
Raithel, Jacob J., St. Louis, Mo. Electric-light fixture. No. 389,289; Apr. 11; Sp. p. 2117; Gaz. vol. 165; p. 361.
Raley, John L., Winsboro, Tex. Cotton-bat former and compressor. No. 981,108; Jan. 10; Sp. p. 2129; Gaz. vol. 162; p. 351.
Ralle & Company, Aktiengesellschaft. (See Elbel and Wray, assignors.)
Ralls, Earl M., Sacramento, Cal. Airship. No. 995,033; June 13; Sp. p. 2058; Gaz. vol. 167; p. 360.
Ralph, Percy C., and W. Pinch, Cleveland, Ohio. Automatic switch-operating mechanism. No. 991,087; May 2; Sp. p. 537; Gaz. vol. 166; p. 93.
Ralston, Howard H., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Reciprocating mechanism. No. 983,399; Feb. 7; Sp. p. 303; Gaz. vol. 163; p. 51.
Ralston, Howard H., Norwood, Ohio, assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 998,392; July 18; Sp. p. 3921; Gaz. vol. 168; p. 694.
Ralston, Howard H., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 1,009,788; Nov. 28; Sp. p. 4776; Gaz. vol. 172; p. 865.
Ralston, Howard H., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Spacer and bracer for commutator-necks. No. 1,005,874; Oct. 17; Sp. p. 2858; Gaz. vol. 171; p. 519.
Ralston, Robert D., Wilscot, Ga. Store-counter. No. 988,594; Apr. 4; Sp. p. 660; Gaz. vol. 165; p. 106.
Ralston, Robert G., *et al.*, executors. (See Carrick, James T.)
Ralston Steel Car Company, The. (See Becker, Anton, assignor.)
Ralston Steel Car Company, The. (See Tesseyman, John E., assignor.)
Ramage, Alexander S., Buffalo, N. Y. Lead pigment and making the same. No. 982,992; Jan. 31; Sp. p. 6187; Gaz. vol. 162; p. 1079.
Ramage, Alexander S., Buffalo, N. Y. Electrolytic method of refining iron. No. 1,007,388; Oct. 31; Sp. p. 6241; Gaz. vol. 171; p. 1135.
Ramage, Alexander S., Buffalo, N. Y. Making paints. No. 1,008,434; Nov. 14; Sp. p. 1815; Gaz. vol. 172; p. 315.
Ramage, Alexander S., Newark, N. J., assignor to J. H. Maugham, trustee. Detinning and degalvanizing scrap. No. 983,931; Feb. 14; Sp. p. 1477; Gaz. vol. 163; p. 260.
Ramage, Alexander S., Detroit, Mich., assignor, by mesne assignments, to National Tube Company, Pittsburg, Pa. Making sulfuric acid and electrolytic iron. No. 984,703; Feb. 21; Sp. p. 3159; Gaz. vol. 163; p. 559.
Ramage, Alexander S., assignor to The Chemical Development Co., Buffalo, N. Y. Lead pigment and making. No. 991,088; May 2; Sp. p. 541; Gaz. vol. 166; p. 93.
Ramage, Alexander S., assignor to The Chemical Development Co., Buffalo, N. Y. Making paints. No. 1,004,078; Sept. 26; Sp. p. 4198; Gaz. vol. 170; p. 750.
Ramapo Iron Works. (See Strong and McPherson, assignors.)
Ramassot, Marius, Lyon, France. Gas water-heater. No. 988,209; Mar. 28; Sp. p. 5208; Gaz. vol. 164; p. 924.
Rambaud, Victor, Bitter Creek, Wyo. Animal-catcher. No. 985,206; Feb. 28; Sp. p. 4221; Gaz. vol. 163; p. 766.
Ramer, Jacob B., Chambersburg, Pa. Train-pipe coupling. No. 999,869; Aug. 8; Sp. p. 1341; Gaz. vol. 169; p. 259.
Ramey, E. J. (See Russell and Carson, assignors.)
Ramey, Sanford D., Waverly, Kans. Kitchen utensil. No. 983,400; Feb. 7; Sp. p. 306; Gaz. vol. 163; p. 52.
Ramirez, Isidoro, Matamoros, Mexico. Cage-trap. No. 994,604; June 6; Sp. p. 1041; Gaz. vol. 167; p. 173.
Ramminger, Henry, New Holstein, Wis. Stanchion. No. 1,008,492; Nov. 14; Sp. p. 1961; Gaz. vol. 172; p. 336.
Ramp, Oliver B., Davenport, Iowa. Motor. No. 992,985; May 23; Sp. p. 4626; Gaz. vol. 166; p. 844.
Ramsaier, William J., New York, N. Y. Counting attachment for printing-presses. No. 992,249; May 16; Sp. p. 3050; Gaz. vol. 166; p. 557.
Ramsay, Allan. (See Jackson, Thomas, assignor.)
Ramsay, Henry M., and A. McGary, assignors of one-third to J. W. Campbell, Houston, Tex. Tire-armor. No. 985,935; Mar. 7; Sp. p. 385; Gaz. vol. 164; p. 61.
Ramsburg, Charles J., W. A. Phillips, and F. E. Swope, Jr., Philadelphia, Pa. Portable thermal fan. No. 992,061; May 9; Sp. p. 2590; Gaz. vol. 166; p. 461.
Ramsey, Edia R. (See Bower, Fred B., assignor.)
Ramsey, James B. (See Humphries and Ramsey.)
Ramsey, James F., *et al.* (See Harrell, William D., assignor.)
Ramsey, Thomas L., assignor of one-half to A. P. Bond, Middlegrove, Ill. Wheel. No. 991,645; May 9; Sp. p. 1758; Gaz. vol. 166; p. 322.

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Ramseyer, Henry E., Duluth, Minn. Vegetable-cutter. No. 990,063; Apr. 18; Sp. p. 3786; Gaz. vol. 165; p. 655.
Ramstrom, Carl E. G. (See Danielsson, Per F., assignor.)
Rand, Charles A. A., Chicago, Ill., assignor to International Harvester Company. Grain-harvester. No. 990,901; May 2; Sp. p. 153; Gaz. vol. 166; p. 29.
Rand, Charles A. A., Chicago, Ill., assignor to International Harvester Company. Tongue-truck. No. 991,019; May 2; Sp. p. 402; Gaz. vol. 166; p. 69.
Rand, Charles A. A., Chicago, Ill., assignor to International Harvester Company. Grain-divider. No. 991,243; May 2; Sp. p. 889; Gaz. vol. 166; p. 150.
Rand, Charles A. A., Chicago, Ill., assignor to International Harvester Company. Pole-truck for harvesters. No. 991,540; May 9; Sp. p. 1530; Gaz. vol. 166; p. 284.
Rand, Charles A. A., Chicago, Ill., assignor to International Harvester Company. Tongue-truck. No. 994,787; June 13; Sp. p. 1507; Gaz. vol. 167; p. 277.
Rand, Charles A. A., Chicago, Ill., assignor to International Harvester Company. Stripper-harvester. No. 996,794; July 4; Sp. p. 388; Gaz. vol. 168; p. 66.
Rand, Frank P., Spokane, Wash. Stump-burner. No. 1,002,752; Sept. 5; Sp. p. 1275; Gaz. vol. 170; p. 191.
Rand, Henry C., and M. M. Graf, assignors to A. L. Peterson, Cresco, Iowa. Cloth-folder for ironing. No. 1,001,443; Aug. 22; Sp. p. 4815; Gaz. vol. 169; p. 868.
Randal, Napoleon B., Walnut Springs, Tex. Fish-hook. No. 991,745; May 9; Sp. p. 1972; Gaz. vol. 166; p. 354.
Randall, Arthur F., *et al.* (See Hill, Roy M., assignor.)
Randall-Faichney Company, The. (See Chapman, Everett B., assignor.)
Randall-Faichney Company, The. (See Provandie, Herbert F., assignor.)
Randall, Fremont C. (See Beers, Randall, and Whiton.)
Randall, Horatio C., San Francisco, Cal. Controlling mechanism for elevator-doors. No. 997,848; July 11; Sp. p. 2668; Gaz. vol. 168; p. 458.
Randall, Karl C., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical apparatus. No. 999,870; Aug. 8; Sp. p. 1343; Gaz. vol. 169; p. 259.
Randall, Karl C., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Outdoor transformer. No. 1,005,307; Oct. 10; Sp. p. 1613; Gaz. vol. 171; p. 289.
Randall, Parke, Rock Falls, Ill., assignor to International Harvester Company. Side-delivery rake. No. 1,009,095; Nov. 21; Sp. p. 3271; Gaz. vol. 172; p. 579.
Randall, Robert M. (See Russell and Savage, assignors.)
Randall Telephone Manufacturing Company. (See Adams-Randall, Charles, assignor.)
Randall, William, Portland, Oreg. Feed-trough. No. 1,005,071; Oct. 3; Sp. p. 1078; Gaz. vol. 171; p. 181.
Randle, James N., and E. B. Goodchild, Eugene, Oreg. Scissors or shears. No. 996,674; July 4; Sp. p. 159; Gaz. vol. 168; p. 28.
Randle, Millard F., Mobile, Ala. Device for hanging wall-paper. No. 981,687; Jan. 17; Sp. p. 3390; Gaz. vol. 162; p. 572.
Randles, Joe R., Viola, Wis. Mail-box. No. 1,010,317; Nov. 28; Sp. p. 5848; Gaz. vol. 172; p. 1041.
Randolph Paper Box Company, The. (See Smith, Burl H., assignor.)
Randolph, William J., Jr., Moscow, N. Y. Spark-plug holder. No. 998,200; July 18; Sp. p. 3458; Gaz. vol. 168; p. 623.
Randon, Roch, St. Etienne, France. Fastening device for doors, windows, and the like. No. 982,633; Jan. 24; Sp. p. 5392; Gaz. vol. 162; p. 930.
Raney Canner Company, The. (See Raney, Thomas H., assignor.)
Raney, Estelle C., Crooksville, and C. E. Simmons, Steubenville, Ohio. Automatic circuit-breaker. No. 1,005,575; Oct. 10; Sp. p. 2225; Gaz. vol. 171; p. 384.
Raney, Thomas H., assignor to The Raney Canner Company, Chapel Hill, N. C. Machine for applying caps to cans. No. 984,966; Feb. 21; Sp. p. 3672; Gaz. vol. 163; p. 648.
Range, Alford J., Armathwaite, Tenn. Horseshoe-forming machine. No. 980,674; Jan. 3; Sp. p. 1085; Gaz. vol. 162; p. 173.
Range, Julius H., Skidmore, Tex. Pump-rod-guide bearing. No. 982,870; Jan. 31; Sp. p. 5919; Gaz. vol. 162; p. 1039.
Rankin, Angus K., Dayton, Ohio. Puzzle. No. 1,006,878; Oct. 24; Sp. p. 5129; Gaz. vol. 171; p. 903.
Rankin, Jesse, Rainier, Wash. Saw-handle. No. 991,746; May 9; Sp. p. 1973; Gaz. vol. 166; p. 354.
Rankin, Nicholas H., Pauline, Nebr. Wheel. No. 989,190; Apr. 11; Sp. p. 1883; Gaz. vol. 165; p. 327.
Rankin, William K., assignor to J. E. Reyburn, Philadelphia, Pa. Valve mechanism. No. 986,592; Mar. 14; Sp. p. 1778; Gaz. vol. 164; p. 314.
Rankin, William K., assignor to J. E. Reyburn, Philadelphia, Pa. Steam air-pump governor. No. 987,080; Mar. 14; Sp. p. 2756; Gaz. vol. 164; p. 477.
Rankine, James C. (See Goldsmith and Rankine.)
Ranley, Sebastian, and J. A. Schirack, St. Henry, Ohio. Folding door. No. 1,008,367; Nov. 14; Sp. p. 1632; Gaz. vol. 172; p. 292.
Ransom, John E. (See Brown, Charles, assignor.)
Ransom & Randolph Co., The. (See Vernon and Brophy, assignors.)
Ransom, Willard G., Davenport, Iowa. Equalizing brake-gear for railway-cars. No. 1,002,312; Sept. 5; Sp. p. 287; Gaz. vol. 170; p. 40.
Ransom, Winfield S., Syracuse, N. Y. Head-rest for cots. No. 981,688; Jan. 17; Sp. p. 3391; Gaz. vol. 162; p. 573.
Ransome, Arthur W., New York, N. Y. Concrete-mixer. No. 982,020; Jan. 17; Sp. p. 4135; Gaz. vol. 162; p. 690.
Ransome, Jesse S., and J. E. McNeely, Seattle, Wash.; said McNeely assignor to said Ransome. Oil-burner. No. 1,012,436; Dec. 19; Sp. p. 4541; Gaz. vol. 173; p. 777.
Rantine, Daniel W., New York, N. Y. Clothes-line tightener. No. 984,604; Feb. 21; Sp. p. 2947; Gaz. vol. 163; p. 523.
Rantine, Daniel W., Brooklyn, N. Y. Clothes-line adjuster. No. 987,015; Mar. 14; Sp. p. 2641; Gaz. vol. 164; p. 456.
Ranz, Jacob, assignor to L. Hilfer, St. Louis, Mo. Machine for printing on bottles. No. 1,012,156; Dec. 19; Sp. p. 3960; Gaz. vol. 173; p. 684.
Rapawy, Gaspar, Louisville, Nebr. Cuspidor. No. 1,011,847; Dec. 12; Sp. p. 3259; Gaz. vol. 173; p. 541.
Rapid Removable Rim Company. (See Baker, Edwin A., assignor.)
Rapoport, Paul, New York, N. Y. Display-case. No. 991,541; May 9; Sp. p. 1532; Gaz. vol. 166; p. 285.
Rapoport, Paul, New York, N. Y. Folding display-case. No. 1,012,277; Dec. 19; Sp. p. 4229; Gaz. vol. 173; p. 725.
Rapp, John H., Chicago, Ill. Release for cycle-stands. No. 995,986; June 20; Sp. p. 4112; Gaz. vol. 167; p. 715.
Rapp, John H., Chicago, Ill. Means for operating motor-cycle exhaust-whistles. No. 1,003,152; Sept. 12; Sp. p. 2122; Gaz. vol. 170; p. 366.
Rapp, John V. B., assignor to Auto-Play Games Company, New York, N. Y. Game apparatus. No. 1,007,389; Oct. 31; Sp. p. 6243; Gaz. vol. 171; p. 1136.
Rapp, John W. (See Nellis, Charles E., assignor.)
Rapp, William H., Reading, Pa. Tray. No. 1,010,801; Dec. 5; Sp. p. 894; Gaz. vol. 173; p. 140.
Rappaport, Leo M. (See Melaun, Ernst, assignor.)
Rappold, Johann, Allswil, near Basel, Switzerland. Continuous kiln with traveling hearth. No. 981,109; Jan. 10; Sp. p. 2130; Gaz. vol. 162; p. 352.
Rappos, Béla, Vienna, Austria-Hungary. Welding chain-links. No. 995,565; June 20; Sp. p. 3196; Gaz. vol. 167; p. 568.
Rarick, John, Upland, Cal. Automatic household-filter. No. 984,704; Feb. 21; Sp. p. 3161; Gaz. vol. 163; p. 559.
Rarick, John, Upland, Cal. Automatic household-filter. No. 984,705; Feb. 21; Sp. p. 3163; Gaz. vol. 163; p. 560.
Rasbridge, Harry, Slatington, Pa. Check-valve for beer-tapping apparatus. No. 1,000,121; Aug. 8; Sp. p. 1922; Gaz. vol. 169; p. 346.
Raschella, Vincent, Union, N. J. Wave-motor. No. 1,009,096; Nov. 21; Sp. p. 3273; Gaz. vol. 172; p. 579.
Raschen, Lueder, San Francisco, Cal. Snow-removing apparatus. No. 980,332; Jan. 3; Sp. p. 301; Gaz. vol. 162; p. 54.
Raschetta, Carl J., Chicago, Ill. Apparatus for acrobatic performances. No. 1,001,300; Aug. 22; Sp. p. 4516; Gaz. vol. 169; p. 819.
Raschig, Friedrich, Ludwigshafen-on-the-Rhine, Germany. Manufacture of alkali earth salts of hydroxylamin disulfonic acid. No. 1,010,177; Nov. 28; Sp. p. 5559; Gaz. vol. 172; p. 996.
Rash, Oscar, Oakland, Cal. Non-skid device for automobiles. No. 990,005; Apr. 18; Sp. p. 3679; Gaz. vol. 165; p. 637.
Rash, Oscar, and F. Hawes, Oakland, Cal. Transmission mechanism. No. 1,007,890; Nov. 7; Sp. p. 552; Gaz. vol. 172; p. 84.
Rashkin, Joseph, New York, N. Y. Doors for elevator-shafts. No. 993,103; May 23; Sp. p. 4889; Gaz. vol. 166; p. 886.
Rashkin, Joseph, assignor to C. M. Peelle, Brooklyn, N. Y. Sectional folding door. No. 990,589; Apr. 25; Sp. p. 4990; Gaz. vol. 165; p. 870.
Rashkovsky, Samuel, St. Louis, Mo. Scaffold. No. 987,399; Mar. 21; Sp. p. 3471; Gaz. vol. 164; p. 620.
Raskin, Isaac, and J. Deretchin, New York, N. Y. Dough-brake. No. 1,007,732; Nov. 7; Sp. p. 171; Gaz. vol. 172; p. 28.
Raskob, John J. (See Coyne and Raskob.)
Rasmesen, George, Jr., Winnetka, Ill. Painter's and decorator's scraper. No. 1,011,489; Dec. 12; Sp. p. 2452; Gaz. vol. 173; p. 417.
Rasmesen, George, Jr., Winnetka, Ill. Painter's and decorator's scraper. No. 1,011,490; Dec. 12; Sp. p. 2453; Gaz. vol. 173; p. 418.
Rasmus, Peter A., Paxton, Ill. Automatic automobile turn-table. No. 984,967; Feb. 21; Sp. p. 3673; Gaz. vol. 163; p. 648.
Rasmussen, Carl. (See Simonsen and Rasmussen.)
Rasmussen, Chester A., Coalinga, Cal. Well-casing spear. No. 1,011,645; Dec. 12; Sp. p. 2844; Gaz. vol. 173; p. 474.

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Rasmussen, Chester P. A., and F. M. Taggartt, Coalinga, Cal. Swage. No. 1,010,954; Dec. 5; Sp. p. 1226; Gaz. vol. 173; p. 194.
Rasmussen, Ingvald M., and G. A. Anderson, Doyon, N. D. Dirigible headlight. No. 983,766; Feb. 7; Sp. p. 1089; Gaz. vol. 163; p. 175.
Rasmussen, Laurits T., assignor to Walker Manufacturing Company, Council Bluffs, Iowa. Furrow-opener. No. 988,386; Apr. 4; Sp. p. 212; Gaz. vol. 165; p. 34.
Rasmussen, Laurits T., assignor to Walker Manufacturing Company, Council Bluffs, Iowa. Furrow-opener. No. 989,872; Apr. 18; Sp. p. 3385; Gaz. vol. 165; p. 590.
Rasmussen, Laurits T., assignor to Walker Manufacturing Company, Council Bluffs, Iowa. Furrow-opener. No. 990,500; Apr. 25; Sp. p. 4819; Gaz. vol. 165; p. 840.
Rasmussen, Martin, Racine, Wis. Smoking-pipe. No. 1,010,955; Dec. 5; Sp. p. 1227; Gaz. vol. 173; p. 194.
Rasmussen, Rolla, Calistoga, Cal. Car-door fastener. No. 1,011,893; Dec. 12; Sp. p. 3353; Gaz. vol. 173; p. 556.
Rasmussen, Rudolph C., assignor to P. J. Devitt, Philadelphia, Pa. Knockdown cart. No. 995,566; June 20; Sp. p. 3197; Gaz. vol. 167; p. 568.
Rassmann, Hugo C., Beaver Dam, Wis. Elevated conveyer. No. 992,386; May 16; Sp. p. 3367; Gaz. vol. 166; p. 606.
Raster, Walther, assignor to Justrite Manufacturing Company, Chicago, Ill. Waste-can. No. 999,336; Aug. 1; Sp. p. 273; Gaz. vol. 169; p. 50.
Ratcliffe, James, Winnipeg, Manitoba, Canada. Turntable for stone-polishing and other purposes No. 983,517; Feb. 7; Sp. p. 555; Gaz. vol. 163; p. 89.
Rateau Turbine Company. (See Smoot, Charles H., assignor.)
Rates, Paul R., and C. L. Burright, Oakland, Cal. Water-motor. No. 989,873; Apr. 18; Sp. p. 3386; Gaz. vol. 165; p. 591.
Rath, Emil, *et al.* (See Stern, Albert, assignor.)
Rath, Emil, Indianapolis, Ind. Gymnasium apparatus. No. 998,634; July 25; Sp. p. 4431; Gaz. vol. 168; p. 810.
Rath, Gustav F., Marshall, Mich. Automatic lubricator. No. 1,011,369; Dec. 12; Sp. p. 2192; Gaz. vol. 173; p. 373.
Rathbone, John A., Utica, N. Y., assignor to Rathbone Molding Machine Co., Detroit, Mich. Molding-machine No. 1,001,887; Aug. 29; Sp. p. 5758; Gaz. vol. 169; p. 1050.
Rathbone Molding Machine Co. (See Rathbone, John A., assignor.)
Rathbun, Edward, Toledo, Ohio. Gas-producer. No. 1,007,797; Nov. 7; Sp. p. 337; Gaz. vol. 172; p. 53.
Rathbun, Lewis V., Rochester, N. Y. Drip-cup. No. 984,850; Feb. 21; Sp. p. 3454; Gaz. vol. 163; p. 610.
Rathfon, George W., Brazil, Ind. Marker for brickmaking-machines. No. 1,004,818; Oct. 3; Sp. p. 577; Gaz. vol. 171; p. 95.
Rathke, Ferdinand F., Clayton, Wis. Turbine. No. 1,001,551; Aug. 22; Sp. p. 5009; Gaz. vol. 169; p. 903.
Rathmell, Bernard, Liverpool, England. Air or gas compressor. No. 1,001,301; Aug. 22; Sp. p. 4518; Gaz. vol. 169; p. 820.
Ratican, William, assignor to St. Louis Street Flushing Machine Co., St. Louis, Mo. Street washing and sprinkling machine. No. 1,009,097; Nov. 21; Sp. p. 3275; Gaz. vol. 172; p. 580.
Ratican, William, assignor to St. Louis Street Flushing Machine Co., St. Louis, Mo. Nozzle for street washing and sprinkling machines. No. 1,009,098; Nov. 21; Sp. p. 3277; Gaz. vol. 172; p. 580.
Ratignier, Marius, Lyon, and H. Pervilhac, Villeurbanne, France. Apparatus for dressing fabrics. No. 982,158; Jan. 17; Sp. p. 4394; Gaz. vol. 162; p. 736.
Ratignier, Marius, Lyon, and H. Pervilhac, Villeurbanne, France. Producing an undulated or loosened surface upon fabrics. No. 1,012,914; Dec. 26; Sp. p. 5601; Gaz. vol. 173; p. 987.
Ratsch, Frederick J., Chicago, Ill. Base-ball fielder's glove. No. 980,560; Jan. 3; Sp. p. 834; Gaz. vol. 162; p. 134.
Rattray, Gordon, assignor to The Automatic Sounding Machine Company, Cleveland, Ohio. Sounding apparatus. No. 1,009,856; Nov. 28; Sp. p. 4911; Gaz. vol. 172; p. 888.
Rau, Henry, Jr., assignor of one-half to H. R. Oliver, Baltimore, Md. Twine-cutter. No. 1,009,342; Nov. 21; Sp. p. 3829; Gaz. vol. 172; p. 667.
Rau, Joseph, Fayette, Iowa. Food-cooker. No. 1,011,080; Dec. 5; Sp. p. 1489; Gaz. vol. 173; p. 236.
Rauber, John N., Rochester, and S. Finley, Geneseo, N. Y.; said Finley assignor to said Rauber. Feed-regulator for mixing-machines. No. 1,012,915; Dec. 26; Sp. p. 5602; Gaz. vol. 173; p. 987.
Rauch, Charles B., Dayton, Ohio. Stringed musical instrument. No. 1,001,302; Aug. 22; Sp. p. 4523; Gaz. vol. 169; p. 820.
Rauch, James G., Slatington, Pa. Feeding attachment for slug or type casting machines. No. 987,489; Mar. 21; Sp. p. 3654; Gaz. vol. 164; p. 651.
Rauch, John D. (See Karr and Rauch.)
Rauch and Lang Carriage Company, The. (See Hertner and Cookingham, assignors.)
Rauchwetter, Franz, Friedenau, near Berlin, Germany. Calculating-machine. No. 996,523; June 27; Sp. p. 5318; Gaz. vol. 167; p. 932.
Raudabaugh, William A., assignor of one-half to A. M. Howard, Powhatan, Va. Hay-rack. No. 996,524; June 27; Sp. p. 5328; Gaz. vol. 167; p. 933.
Raudebaugh, George L., Rosalia, Wash. Shears. No. 1,007,605; Oct. 31; Sp. p. 6714; Gaz. vol. 171; p. 1208.
Raughtigan, Michael, Norwich, Conn. Garbage-can. No. 1,009,691; Nov. 21; Sp. p. 4554; Gaz. vol. 172; p. 784.
Rauh, Julius J., New York, N. Y. Self-cleaning comb. No. 992,250; May 16; Sp. p. 3052; Gaz. vol. 166; p. 557.
Rauh, Leopold. (See Dana, William H., assignor.)
Rauhe, Carl, Dusseldorf, Germany. Dental suction-plate. No. 1,006,979; Oct. 24; Sp. p. 5334; Gaz. vol. 171; p. 936.
Rauhoff, John M., assignor to Ironite Company, Chicago, Ill. Concrete composition. No. 1,000,944; Aug. 15; Sp. p. 3713; Gaz. vol. 169; p. 665.
Raulf, Carl A., Chicago, Ill. Baker's tool. No. 980,333; Jan. 3; Sp. p. 302; Gaz. vol. 162; p. 54.
Raum, John C. and J. J., Baltimore, Md. Vehicle. No. 985,633; Feb. 28; Sp. p. 5155; Gaz. vol. 163; p. 911.
Raum, John J. (See Raum, John C. and J. J.)
Rausch, Fred, and J. Davis, assignors to General Railway Supply Company, Chicago, Ill. Sash-pivot. No. 988,286; Mar. 28; Sp. p. 5364; Gaz. vol. 164; p. 949.
Rausch, George. (See Cahaney, James M., assignor.)
Rautenberg, Bernhard, Niagara Falls, N. Y. Sweater. No. 991,370; May 2; Sp. p. 1167; Gaz. vol. 166; p. 194.
Rauth, John, Belleville, Ill. Fireproof box for powder-cans. No. 990,902; May 2; Sp. p. 155; Gaz. vol. 166; p. 29.
Raw, Charles, Toledo, Ohio. Bag-holder. No. 989,642; Apr. 18; Sp. p. 2900; Gaz. vol. 165; p. 512.
Rawie, Franz, Osnabrück-Schinkel, Germany. Railway-buffer construction. No. 991,089; May 2; Sp. p. 542; Gaz. vol. 166; p. 94.
Rawitser, Fred, *et al.* (See Capwell, Courtland G., assignor.)
Rawlings, Joshua S., Jr. (See Quickel, Allen E., assignor.)
Rawlings Manufacturing Company. (See Whitley, William P., assignor.)
Rawson, Grant I., and L. B. Shultz, assignors to Pilley Packing & Flue Brush Manufacturing Company, St. Louis, Mo. Miner's lamp. No. 996,675; July 4; Sp. p. 160; Gaz. vol. 168; p. 28.
Rawson, Grant I., and L. B. Shultz, assignors to Pilley Packing & Flue Brush Manufacturing Company, St. Louis, Mo. Secondary battery. No. 996,676; July 4; Sp. p. 161; Gaz. vol. 168; p. 28.
Rawson, Louis W. (See Bird and Rawson.)
Rawsthorne, Joseph T., Dinting, England. Engraving or preparation of steel dies or rollers. No. 991,747; May 9; Sp. p. 1975; Gaz. vol. 166; p. 355.
Rawstron, Donald, assignor to J. F. Hill., Chicago, Ill. Brake-shoe with insert. No. 999,258; Aug. 1; Sp. p. 130; Gaz. vol. 169; p. 24.
Rawstron, Donald, assignor to J. F. Hill, Chicago, Ill. Brake-shoe with reinforced back. No. 999,259; Aug. 1; Sp. p. 132; Gaz. vol. 169; p. 24.
Rawstron, Donald, assignor of one-third to J. J. Fitzgerald and one-third to H. Rawston, Chicago, Ill. Actuating mechanism for interest-calculating devices. No. 1,004,199; Sept. 26; Sp. p. 4472; Gaz. vol. 170; p. 791.
Rawstron, Henry, *et al.* (See Rawstron, Donald, assignor.)
Raxworthy, Richard E., East Dulwich, England. Collapsible gate. No. 1,009,099; Nov. 21; Sp. p. 3279; Gaz. vol. 172; p. 580.
Ray Acetylene Company. (See Ray, Francis B., assignor.)
Ray, Alexander, assignor of one-half to E. S. Lowry, Philadelphia, Pa. Elevating apparatus. No. 984,706; Feb. 21; Sp. p. 3165; Gaz. vol. 163; p. 560.
Ray, Ambrose V., Sabbath Rest, Pa. Penholder. No. 1,010,072; Nov. 28; Sp. p. 5364; Gaz. vol. 172; p. 961.
Ray, Forest A., Boston, Mass. Water-level controller. No. 980,675; Jan. 3; Sp. p. 1087; Gaz. vol. 162; p. 173.
Ray, Francis B., New York, N. Y., assignor to Ray Acetylene Company, Elkhart, Ind. Acetylene-generator. No. 982,690; Jan. 24; Sp. p. 5502; Gaz. vol. 162; p. 949.
Ray, Fred F., Los Angeles, Cal. Adjustable chainless hand-brake. No. 986,499; Mar. 14; Sp. p. 1583; Gaz. vol. 164; p. 282.
Ray, Frederick, East Orange, N. J. Turbine water-meter. No. 1,005,875; Oct. 17; Sp. p. 2859; Gaz. vol. 171; p. 520.
Ray, George R., Manistee, Mich. Mixer or commingler for evaporators and the like. No. 1,002,866; Sept. 12; Sp. p. 1538; Gaz. vol. 170; p. 268.
Ray, Louis, Hamlet, Ind. Hub-attaching device. No. 982,300; Jan. 24; Sp. p. 4715; Gaz. vol. 162; p. 815.
Ray, William A., Fitchburg, Cal. Adjustable screen and curtain attachment. No. 997,849; July 11; Sp. p. 2670; Gaz. vol. 168; p. 458.
Ray, William H., Hereford, Tex. Gearing. No. 996,426; June 27; Sp. p. 5150; Gaz. vol. 167; p. 902.
Ray, William R. (See Roche and Ray.)

Alphabetical list of patentees—Continued.

Ray, William R., assignor to W. S. Ray Manufacturing Co. Inc., San Francisco, Cal. Electrical water-heater. No. 991,244; May 2; Sp. p. 890; Gaz. vol. 166; p. 151.
Ray, William T., Somerville, Mass. Ice-making machine. No. 990,590; Apr. 25; Sp. p. 4992; Gaz. vol. 165; p. 870.
Ray, William T., Somerville, Mass. Grab apparatus for ice-machines. No. 990,591; Apr. 25; Sp. p. 4998; Gaz. vol. 165; p. 871.
Ray, William T., Somerville, Mass. Valve. No. 1,000,945; Aug. 15; Sp. p. 3715; Gaz. vol. 169; p. 665.
Raydure, Charles F. (See McCoubrie and Raydure.)
Raymer, Bertrel A., and A. Heveker, Jr., McKeesport, Pa. Envelop. No. 999,057; July 25; Sp. p. 5397; Gaz. vol. 168; p. 960.
Raymer, Levi L., assignor of one-third to J. S. Hunter, Lima, Ohio. Window-scaffold. No. 1,004,689; Oct. 3; Sp. p. 299; Gaz. vol. 171; p. 51.
Raymer, Simon P., Myersville, Md. Equalizer for carriages. No. 1,013,060; Dec. 26; Sp. p. 5929; Gaz. vol. 173; p. 1038.
Raymond, Alfred A., assignor to Raymond Concrete Pile Company, Chicago, Ill. Pile-shell and forming concrete piles. No. 985,549; Feb. 28; Sp. p. 4994; Gaz. vol. 163; p. 883.
Raymond, Charles H., Nashville, Ark. Ink-fountain. No 981,110; Jan. 10; Sp. p. 2131; Gaz. vol. 162; p. 352.
Raymond Concrete Pile Company. (See Raymond, Alfred A., assignor.)
Raymond Concrete Pile Company. (See Upson, Maxwell M., assignor.)
Raymond Concrete Pile Company. (See Watt, Elihu D., assignor.)
Raymond, Freeborn F., 2d, Newton, Mass., assignor, by mesne assignments, to United Shoe Machinery Company. Heel-attaching machine. No. 1,009,710; Nov. 21; Sp. p. 4586; Gaz. vol. 172; p. 790.
Raymond, George W. (See Seward and Raymond.)
Raymond, Walter B., Brooklyn, N. Y. Basket. No. 988,897; Apr. 4; Sp. p. 1270; Gaz. vol. 165; p. 203.
Raymond, Ward, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Regulator for fluid-compressors. No. 998,201; July 18; Sp. p. 3460; Gaz. vol. 168; p. 624.
Raymond, Ward, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Regulator for fluid-compressors. No. 998,202; July 18; Sp. p. 3462; Gaz. vol. 168; p. 624.
Rayner, Edwin B., Piqua, Ohio. Roundabout. No. 982,993; Jan. 31; Sp. p. 6189; Gaz vol. 162; p. 1079.
Raynor, Robert L., McKeesport, Pa. Hat-pin fastener. No. 984,298; Feb. 14; Sp. p. 2278; Gaz. vol. 163; p. 386.
Rayon, Cyril T., Church Point, La. Baling-press. No. 1,003,371; Sept. 12; Sp. p. 2585; Gaz. vol. 170; p. 445.
Razall, Henry G., Milwaukee, Wis. Separable binder. No. 981,943; Jan. 17; Sp. p. 3979; Gaz. vol. 162; p. 664.
Razutovitch, Anton, *et al.* (See Glamzo, Paul, assignor.)
Re, Louis, Newark, N. J. Match-igniter and waste-match receiver. No. 982,301; Jan. 24; Sp. p. 4716; Gaz. vol. 162; p. 815.
Rea, Edward M., and E. A. Olden, Zita, Colo. Insect-destroyer. No. 1,012,437; Dec. 19; Sp. p. 4543; Gaz. vol. 173; p. 778.
Rea, George T., assignor of one-half to A. Spalding, Alice, Tex. Insect-trap. No. 993,547; May 30; Sp. p. 5838; Gaz. vol. 166; p. 1064.
Reach, A. J. (See McArdle, William H. and R. B., assignors.)
Reach, Alfred J., assignor to G. A. Reach, Philadelphia, Pa. Base-ball ask. No. 1,012,223; Dec. 19; Sp. p. 4120; Gaz. vol. 173; p. 706.
Reach, George A. (See Cline, Samuel, assignor.)
Reach, George A. (See Gamble, John, assignor.)
Reach, George A. (See Gamble and Davis, assignors.)
Reach, George A. (See Reach, Alfred J., assignor.)
Reach, Milton B., Chicopee, Mass., assignor to R. P. K. Specialty Company. Form or stretcher for boots and shoes. No. 980,676; Jan. 3; Sp. p. 1091; Gaz. vol. 162; p. 174.
Reach, Milton B., Chicopee, Mass., assignor to R. P. K. Specialty Co., New York, N. Y. Shoe-form. No. 985,550; Feb. 28; Sp. p. 4996; Gaz. vol. 163; p. 884.
Reach, Milton B., Springfield, Mass., assignor to A. G. Spalding & Bros. Manf'g Co. Horizontal-bar structure for gymnasiums. No. 1,003,797; Sept. 19; Sp. p. 3508; Gaz. vol. 170; p. 624.
Reach, William F., Springfield, Mass., assignor to A. G Spalding & Bros. Manf'g Co. Gymnasium-caster. No. 999,184; July 25; Sp. p. 5624; Gaz. vol. 168; p. 1000.
Read, Alonzo P., Chicago, Ill. Can-opener. No. 994,275; June 6; Sp. p. 360; Gaz. vol. 167; p. 61.
Read, Austin. (See Read, William and A.)
Read, Ellis D., Deer Lodge, Mont. Egg-beater. No. 989,418; Apr. 11; Sp. p. 2387; Gaz. vol. 165; p. 403.
Read, George F., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Sheet-controlling device. No. 998,986; July 25; Sp. p. 5247; Gaz. vol. 168; p. 935.
Read, Harry. (See Dehuff, Walter F., assignor.)
Read, Harry, York, Pa. Beater for mixing-machines. No. 1,007,891; Nov. 7; Sp. p. 553; Gaz. vol. 172; p. 85.
Read, Harry V. R., and R. H. Campbell, Edmonton, England. Discharge apparatus. No. 980,835; Jan. 3; Sp. p. 1405; Gaz. vol. 162; p. 225.
Read, John W., London, England. Hand printing-press. No. 984,968; Feb. 21; Sp. p. 3675; Gaz. vol. 163; p. 649.
Read, Nettie, administratrix. (See Read, William and A.)
Read, Rowland, White Plains, N. Y. Game apparatus. No. 991,748; May 9; Sp. p. 1976 Gaz. vol. 166; p. 355.
Read, Roy D. (See Piggott, George S., assignor.)
Read, William, and A. Read, deceased, (N. Read, administratrix,) assignors of two-thirds to said William Read and one-third to W. W. Dearth, Pana, Ill. Rotary engine. No. 1,010,956; Dec. 5; Sp. p. 1229; Gaz. vol. 173; p. 195.
Read, William K., Texarkana, Tex. Pump system. No. 998,717; July 25; Sp. p. 4619; Gaz. vol. 168; p. 840.
Reading Hardware Company. (See Adams, William T., assignor.)
Reading Hardware Company. (See Bishop, Charles B., assignor.)
Reading, Isaac G., *et al.* (See Gage, William F., assignor.)
Reading, Joseph H., Chicago, Ill. Tip for canes or crutches. No. 990,006; Apr. 18; Sp. p. 3680; Gaz. vol. 165; p. 637.
Readwin, Arthur E., Richmond, England. Gearing for laundry-machines. No. 1,002,450; Sept. 5; Sp. p. 612; Gaz. vol. 170; p. 88.
Reagan, Edgar U. G., San Antonio, Tex. Roller-press. No. 983,086; Jan. 31; Sp. p. 6393; Gaz. vol. 162; p. 1111.
Reagan, Edgar U. G., San Antonio, Tex. Cotton-condenser. No. 993,795; May 30; Sp. p. 6381; Gaz. vol. 166; p. 1150.
Reagan, John C. (See Weicher, Henry A., assignor.)
Reagles, Samuel E., Kilbourn, Wis. Envelop-seal. No. 983,838; Feb. 7; Sp. p. 1253; Gaz. vol. 163; p. 200.
Ream, Ross, Johnstown, Pa. Tie and rail-fastener. No. 1,010,073; Nov. 28; Sp. p. 5365; Gaz. vol. 172; p. 961.
Reaney, James, Jr. (See McAnulty and Reaney.)
Reardon, William J. (See Boss and Reardon.)
Rearick, Charles B. (See Hopson and Rearick.)
Rearick, Charles B., New York, N. Y. Elastic-fluid turbine. No. 1,003,203; Sept. 12; Sp. p. 2241; Gaz. vol. 170; p. 386.
Rearick, Charles B., New York, N. Y. Elastic-fluid turbine. No. 1,003,204; Sept. 12; Sp. p. 2248; Gaz. vol. 170; p. 386.
Reason, Albert, Pontiac, Mich. Threshing-machine. No. 990,007; Apr. 18; Sp. p. 3681; Gaz. vol. 165; p. 638.
Reaume, Dennis J., assignor of one-half to J. Holtz, Detroit, Mich. Agitator. No. 1,002,931; Sept. 12; Sp. p. 1690; Gaz. vol. 170; p. 292.
Reavell, William, and E. W. Jones, Ipswich, England. Fluid-pressure engine, pump, exhauster, or compressor. No. 1,006,980; Oct. 24; Sp. p. 5335; Gaz. vol. 171; p. 936.
Reaves, Frank J., assignor to South Bend Watch Company, South Bend, Ind. Timepiece. No. 1,011,246; Dec. 12; Sp. p. 1913; Gaz. vol. 173; p. 330.
Rebagliati, Frank B., Lytton, British Columbia, Canada. Wrench. No. 1,004,903; Oct. 3; Sp. p. 782; Gaz. vol. 171; p. 125.
Reber, John G., deceased; O. S. Reber, administratrix, assignor to The Sefton Manufacturing Company, Chicago, Ill. Folding box. No. 1,003,510; Sept. 19; Sp. p. 2875; Gaz. vol. 170; p. 525.
Reber, Olive S., administratrix. (See Reber, John G.)
Rebhun, Valentine, Schaghticoke, N. Y. Sanitary pillow. No. 982,442; Jan. 24; Sp. p. 5019; Gaz. vol. 162; p. 867.
Rebikoff, Wassily, St. Petersburg, Russia. Flying-machine. No. 999,337; Aug. 1; Sp. p. 276; Gaz. vol. 169; p. 51.
Recconi, Peter, San Francisco, Cal. Valve-grinder. No. 1,000,553; Aug. 15; Sp. p. 2874; Gaz. vol. 169; p. 527.
Rechenberg, Frederick, Cleveland, Ohio. Tool for graphophone-needles. No. 991,020; May 2; Sp. p. 403; Gaz. vol. 166; p. 69.
Rechner, Henry E., East Toledo, Ohio. Automobile-tire. No. 990,456; Apr. 25; Sp. p. 4690; Gaz. vol. 165; p. 825.
Recht, Frederick, New York, N. Y. Machine for applying caps to bottles. No. 1,007,892; Nov. 7; Sp. p. 554; Gaz. vol. 172; p. 85.
Reck, Anders B., Hellerup, Denmark. Sectional boiler. No. 1,000,038; Aug. 8; Sp. p. 1691; Gaz. vol. 169; p. 317.
Reck, Joseph A., Adrian, and O. Gibbon, Hillsdale, assignors, by mesne assignments, to M. W. Edgar, Detroit, Mich. Belt-lacing machine. No. 993,548; May 30; Sp. p. 5840; Gaz. vol. 166; p. 1065.
Reckefus, Charles H., Port Deposit, Md. Tedder attachment for mowing-machines. No. 1,002,451; Sept. 5; Sp. p. 615; Gaz. vol. 170; p. 88.
Recker, Adolph C., Oakville, assignor to Waterbury Mfg. Co., Waterbury, Conn. Shade-holder for electric lamps. No. 997,006; July 4; Sp. p. 886; Gaz. vol. 168; p. 141.
Recker, Adolph C., Oakville, assignor to Waterbury Mfg. Co., Waterbury, Conn. Carbon-cap. No. 998,987; July 25; Sp. p. 5251; Gaz. vol. 168; p. 935.
Recker, Adolph C., Oakville, assignor to Waterbury Mfg. Co., Waterbury, Conn. Safety-razor. No. 1,003,798; Sept. 19; Sp. p. 3510; Gaz. vol. 170; p. 624.

Alphabetical list of patentees—Continued.

Recklinghausen, Max von, New York, N. Y., assignor to Cooper Hewitt Electric Company. Vapor electric apparatus. No. 984,707; Feb. 21; Sp. p. 3168; Gaz. vol. 163; p. 561.
Reckow, Paul, Chicago, Ill. Veneering. No. 1,007,973; Nov. 7; Sp. p. 723; Gaz. vol. 172; p. 113.
Recording and Computing Machine Company, The. (See Ohmer, Whistler, and McAllister, assignors.)
Recording Register & Fare Box Company, The. (See Kennedy, Frank B., assignor.)
Rectenwald, John J., Pittsburg, Pa. Life-saving device. No. 996,361; June 27; Sp. p. 4986; Gaz. vol. 167; p. 878.
Rectenwald, John J., Pittsburg, Pa. Aeroplane. No. 996,363; June 27; Sp. p. 4990; Gaz. vol. 167; p. 879.
Rectenwald, John J., Mount Oliver borough, Pa. Life-saving device. No. 996,362; June 27; Sp. p. 4988; Gaz. vol. 167; p. 879.
Rector, Elbridge L., San Saba, Tex. Dumping-platform. No. 986,218; Mar. 7; Sp. p. 958; Gaz. vol. 164; p. 156.
Rector, Enoch, New York, N. Y. Shock-absorber. No. 999,871; Aug. 8; Sp. p. 1344; Gaz. vol. 169; p. 259.
Rector, Enoch, New York, N. Y. Tire-inflater. No. 1,012,098; Dec. 19; Sp. p. 3840; Gaz. vol. 173; p. 664.
Red, Charles, Perryville, Mo. Muffler. No. 1,006,595; Oct. 24; Sp. p. 4514; Gaz. vol. 171; p. 805.
Reddan, Daniel, Fitzroy, Victoria, Australia. Treating hides. No. 1,003,205; Sept. 12; Sp. p. 2252; Gaz. vol. 170; p. 387.
Reddick, Frank J., Newberry, S. C. Railway-track structure. No. 981,472; Jan. 10; Sp. p. 2957; Gaz. vol. 162; p. 480.
Reddick, William J., Lakeland, Fla. Hinge. No. 994,196; June 6; Sp. p. 202; Gaz. vol. 167; p. 35.
Redding, Charles L. (See Gilman, James R., assignor.)
Redding, Rufus M., and G. Florence, Macon, Ga. Draft-controller for heaters. No. 1,009,573; Nov. 21; Sp. p. 4344; Gaz. vol. 172; p. 747.
Redding, Samuel A., Atlanta, Ga. Electrically-operated score-board. No. 1,000,039; Aug. 8; Sp. p. 1694; Gaz. vol. 169; p. 318.
Reddy, John J., Jersey City, N. J. Automobile tire-pump. No. 996,882; July 4; Sp. p. 585; Gaz. vol. 168; p. 96.
Reddy, William A., *et al.* (See Maurer, George, assignor.)
Redemann, Oscar F. H. (See Graham, James S., assignor.)
Redfield, Edward E., Glendale, Oreg. Automatic firearm. No. 984,489; Feb. 14; Sp. p. 2651; Gaz. vol. 163; p. 447.
Redfield, Edward E., Glendale, Oreg. Repeating firearm. No. 984,490; Feb. 14; Sp. p. 2656; Gaz. vol. 163; p. 448.
Redford, George. (See Cords, Fred, assignor.)
Redford, John C., South Norwalk, Conn. Umbrella. No. 1,001,076; Aug. 22; Sp. p. 4071; Gaz. vol. 169; p. 747.
Redford, Oscar P., Richmond, Va., assignor to The Richmond Forgings Corporation. Manufacturing jaws for jaw-rods and jaw-bolts. No. 1,010,687; Dec. 5; Sp. p. 627; Gaz. vol. 173; p. 100.
Redin, Andrew W., assignor to C. G. Peterson, Rockford, Ill. Edge-inking machine. No. 981,003; Jan. 10; Sp. p. 1897; Gaz. vol. 162; p. 314.
Redin, Andrew W., assignor to C. G. Peterson, Rockford, Ill. Last. No. 999,872; Aug. 8; Sp. p. 1346; Gaz. vol. 169; p. 260.
Redin, Andrew W., assignor to C. G. Peterson, Rockford, Ill. Brush. No. 1,003,650; Sept. 19; Sp. p. 3189; Gaz. vol. 170; p. 574.
Redington, Frank B., Chicago, Ill. Counting attachment. No. 985,448; Feb. 28; Sp. p. 4763; Gaz. vol. 163; p. 847.
Redman, William T., Brentwood, Md. Collapsible core for constructing hollow concrete walls. No. 994,336; June 6; Sp. p. 482; Gaz. vol. 167; p. 83.
Redrup, Charles B., Barry Dock, England. Motor. No. 999,673; Aug. 1; Sp. p. 940; Gaz. vol. 169; p. 164.
Redwine, Roy D., Sipe Springs, Tex. Post. No. 982,529; Jan. 24; Sp. p. 5200; Gaz. vol. 162; p. 896.
Reeb, Henry J., *et al.* (See Sarlls, Theodore, assignor.)
Reece Button Hole Machine Company, The. (See Dahl and Hagelstein, assignors.)
Reece Button Hole Machine Company, The. (See Hagelstein, Christian H. T., assignor.)
Reece Button Hole Machine Company, The. (See Leveque, Bernard T., assignor.)
Reece Button Hole Machine Company, The. (See Littlefield and Drinkwater, assignors.)
Reece, Sherrod W., Portland, Oreg. Turbine water-wheel. No. 996,525; June 27; Sp. p. 5330; Gaz. vol. 167; p. 933.
Reed, Albert S., assignor of one-half to E. T. Harris, Chicago, Ill. Combination-wrench. No. 999,399; Aug. 1; Sp. p. 411; Gaz. vol. 169; p. 73.
Reed, Alva S., Big Springs township, Union county, S. D. Grain-separator. No. 1,009,440; Nov. 21; Sp. p. 4077; Gaz. vol. 172; p. 703.
Reed, Carl B., Dysart, Iowa. Brooch or belt-pin keeper. No. 996,677; July 4; Sp. p. 163; Gaz. vol. 168; p. 29.
Reed, Charles E., assignor to Charles E. Reed & Company, Chicago, Ill. Forging-machine. No. 984,851; Feb. 21; Sp. p. 3456; Gaz. vol. 163; p. 610.
Reed, Charles E., assignor to Charles E. Reed & Company, Chicago, Ill. Pattern-cutting machine. No. 1,006,273; Oct. 17; Sp. p. 3760; Gaz. vol. 171; p. 661.
Reed, Cora, administratrix. (See Reed, Isaac M.)
Reed, David, Dewittville, N. Y. Safety-bridle. No. 982,159; Jan. 17; Sp. p. 4395; Gaz. vol. 162; p. 736.
Reed, Ernest D., Dublin, Ind., assignor to The Henry C. Blair Company, Wilmington, Del. Antiseptic composition. No. 984,106; Feb. 14; Sp. p. 1856; Gaz. vol. 163; p. 319.
Reed, Frank, Omaha, Nebr. Tire. No. 982,634; Jan. 24; Sp. p. 5393; Gaz. vol. 162; p. 930.
Reed, Franklin M., assignor to The Unity Mfg. Co., Indianapolis, Ind. Fence-post. No. 1,010,521; Dec. 5; Sp. p. 275; Gaz. vol. 173; p. 43.
Reed, George F., Pitcairn, Pa. Lock. No. 1,000,946; Aug. 15; Sp. p. 3717; Gaz. vol. 169; p. 666.
Reed, George G., assignor of one-half to N. P. Avery, Holyoke, Mass. Moistener for dental tools. No. 1,005,468; Oct. 10; Sp. p. 1952; Gaz. vol. 171; p. 345.
Reed, George L., assignor to The Reed Manufacturing Company, Springfield, Ohio. Hand-loom. No. 1,004,079; Sept. 26; Sp. p. 4200; Gaz. vol. 170; p. 750.
Reed, George W., Jr., Topeka, Kans. Hog and poultry crate. No. 1,012,157; Dec. 19; Sp. p. 3963; Gaz. vol. 173; p. 684.
Reed, Harry H., Marathon, N. Y. Self-closing stanchion. No. 991,021; May 2; Sp. p. 404; Gaz. vol. 166; p. 69.
Reed, Isaac M., deceased; C. Reed, administratrix, assignor to L. Boshears, Corning, Ark. Combined passenger-recorder and station-indicator. No. 992,593; May 16; Sp. p. 3809; Gaz. vol. 166; p. 678.
Reed, James H., Swampscott, Mass., assignor to Essex Machine Company, Kittery, Me. Vamp-creaser. No. 996,138; June 27; Sp. p. 4436; Gaz. vol. 167; p. 803.
Reed, John C. (See Marschuetz, Probst, and Reed.)
Reed, John H., Lancaster, Wis. Vehicle-wheel. No. 1,001,982; Aug. 29; Sp. p. 5968; Gaz. vol. 169; p. 1081.
Reed, Joseph H., Girard, Ohio. Metallic railway-tie. No. 986,085; Mar. 7; Sp. p. 703; Gaz. vol. 164; p. 112.
Reed Manufacturing Company. (See Quinn and Pritchard, assignors.)
Reed Manufacturing Company, The. (See Reed, George L., assignor.)
Reed, Matthew H., Chicago, Ill. Concrete-mixer. No. 981,111; Jan. 10; Sp. p. 2133; Gaz. vol. 162; p. 352.
Reed, Matthew H., Pittsburg, Pa. Concrete-mixer. No. 994,536; June 6; Sp. p. 900; Gaz. vol. 167; p. 149.
Reed, Paul B., Milwaukee, Wis. Shirt-waist. No. 1,008,493; Nov. 14; Sp. p. 1962; Gaz. vol. 172; p. 336.
Reed, Robert, Rockwall, Tex. Crude-oil burner. No. 999,338; Aug. 1; Sp. p. 278; Gaz. vol. 169; p. 51.
Reed, Thomas W., Osborn, Ohio. Whip. No. 1,005,308; Oct. 10; Sp. p. 1614; Gaz. vol. 171; p. 289.
Reed, William H. (See Farnsworth and Reed.)
Reed, William H., Hartford, Conn., assignor to Revere Rubber Company, Providence, R. I. Tire. No. 1,011,894; Dec. 12; Sp. p. 3354; Gaz. vol. 173; p. 556.
Reed, William L., Pittsburg, Pa. Strainer. No. 983,767; Feb. 7; Sp. p. 1091; Gaz. vol. 163; p. 175.
Reed, William L., Pittsburg, Pa. Dredger for pulverulent material. No. 1,004,466; Sept. 26; Sp. p. 5009; Gaz. vol. 170; p. 881.
Reeder, Nathaniel S., Chicago, Ill. Car-dumping mechanism. No. 998,393; July 18; Sp. p. 3923; Gaz. vol. 168; p. 695.
Reeder, Nathaniel S., Chicago, Ill., assignor to Pressed Steel Car Company, Pittsburg, Pa. Brake-beam fulcrum. No. 995,181; June 13; Sp. p. 2360; Gaz. vol. 167; p. 409.
Reehl, Michael T., Cincinnati, Ohio. Pelt-combing machine. No. 989,419; Apr. 11; Sp. p. 2389; Gaz. vol. 165; p. 403.
Reeling, George J. (See Johnson, John L., assignor.)
Reely, William M., Missoula, Mont. Holder for fishing-tackle. No. 1,011,081; Dec. 5; Sp. p. 1491; Gaz. vol. 173; p. 236.
Reeps, Charles F., assignor to Concord Company, Chicago, Ill. Lever-hider for player-pianos. No. 1,011,646; Dec. 12; Sp. p. 2846; Gaz. vol. 173; p. 475.
Rees, Clayton D., assignor of one-half to J. E. Starnes, Medford, Oreg. Releasing-hook. No. 984,852; Feb. 21; Sp. p. 3457; Gaz. vol. 163; p. 611.
Rees, David W., and H. E. Carmichael, Needles, Cal. Pocket-syringe. No. 991,022; May 2; Sp. p. 406; Gaz. vol. 166; p. 70.
Rees, Edmund S. G., Wolverhampton, England. Rotary condenser and condensing steam-turbine. No. 1,000,195; Aug. 8; Sp. p. 2086; Gaz. vol. 169; p. 371.
Rees, Edmund S. G., Wolverhampton, England. Ejector, condenser, and air pump or compressor. No. 1,002,753; Sept. 5; Sp. p. 1276; Gaz. vol. 170; p. 191.
Rees, Edmund S. G., Wolverhampton, England. Centrifugal turbine and similar pump. No. 1,012,438; Dec. 19; Sp. p. 4545; Gaz. vol. 173; p. 778.
Rees, James and J. W. H., Walworth, assignors to Nettlefold & Sons Limited, London, England. Door-check. No. 981,473; Jan. 10; Sp. p. 2958; Gaz. vol. 162; p. 480.
Rees, James W. H. (See Rees, James and J. W. H.)
Rees, Walter, Philadelphia, Pa. Changeable key-lock. No. 988,663; Apr. 4; Sp. p. 801; Gaz. vol. 165; p. 129.
Rees, Walter, York, Pa. Changeable key-lock. No. 1,004,904; Oct. 3; Sp. p. 783; Gaz. vol. 171; p. 126.

Alphabetical list of patentees—Continued.

Rees, Walter A., San Antonio, Tex. Pipe-making machine. No. 1,007,974; Nov. 7; Sp. p. 725; Gaz. vol. 172; p. 113.
Reese, Abram L., Wilmore, Kans. Threshing-machine attachment. No. 1,011,370; Dec. 12; Sp. p. 2194; Gaz. vol. 173; p. 374.
Reese, Charles L., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Purifying burner-gas. No. 989,801; Apr. 18; Sp. p. 3245; Gaz. vol. 165; p. 567.
Reese, Darius F., *et al.* (See Dohm, Frederick W., assignor.)
Reese, George W., Iowa City, Iowa. Silo-door. No. 993,873; May 30; Sp. p. 6531; Gaz. vol. 166; p. 1177.
Reese, Henry O., Baltimore, Md. Animal-trap. No. 1,007,975; Nov. 7; Sp. p. 727; Gaz. vol. 172; p. 114.
Reeser, Wilmer J., Butler, Minn. Folding crate. No. 1,005,876; Oct. 17; Sp. p. 2861; Gaz. vol. 171; p. 520.
Reessing, George J., *et al.* (See Lagergren, John E., assignor.)
Reeve, Clifford C., *et al.* (See Estes, Charles E., assignor.)
Reeve, Henry E., New York, N. Y. Lamp-socket. No. 980,438; Jan. 3; Sp. p. 543; Gaz. vol. 162; p. 92.
Reeve, Henry E., New York, N. Y. Lamp-socket switch. No. 988,507; Apr. 4; Sp. p. 457; Gaz. vol. 165; p. 74.
Reeve, Sidney A. (See Noyes and Reeve.)
Reeve, Sidney A., Worcester, Mass., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Internal-combustion-motor apparatus. No. 999,873; Aug. 8; Sp. p. 1348; Gaz. vol. 169; p. 260.
Reeve, Sidney A., Worcester, Mass., assignor, by mesne assignments, to C. P. Power Company, Newark, N. J. Stage-compression internal-combustion engine. No. 1,,005,469; Oct. 10; Sp. p. 1953; Gaz. vol. 171; p 345.
Reeve, Sidney A., New Haven, Conn., assignor to Rotary Meter Company. Calorimeter. No. 1,008,065; Nov. 7; Sp. p. 898; Gaz. vol. 172; p. 144.
Reeve, Sidney A., New York, N. Y., assignor to Rotary Meter Company. Non-pulsating automatic fluid-valve. No. 1,013,093; Dec. 26; Sp. p. 5999; Gaz. vol. 173; p. 1049.
Reeve, Sidney A., Worcester, and E. P. Noyes, Winchester, Mass., assignors, by mesne assignments, to C. P. Power Company, Newark, N. J. Generating apparatus. No. 982,871; Jan. 31; Sp. p. 5920; Gaz. vol. 162; p. 1040.
Reeves, Charles D., Schenectady, N. Y. Hat-pin guard. No. 1,002,542; Sept. 5; Sp. p. 809; Gaz. vol. 170; p. 118.
Reeves, Chester A., Laidlaw, Oreg. Land clearing and digging machine. No. 987,016; Mar. 14; Sp. p. 2642; Gaz. vol. 164; p. 456.
Reeves & Company. (See Clay, Harry C., assignor.)
Reeves, Edwin A., Milford, Conn. Prepayment gas-meter. No. 1,000,626; Aug. 15; Sp. p. 3056; Gaz. vol. 169; p. 555.
Reeves, Fountain O., assignor of one-half to H. M. Wilkins, Vandervoort, Ark. Hand-power hay-press. No. 987,913; Mar. 28; Sp. p. 4578; Gaz. vol. 164; p. 824.
Reeves, Frederick W., Pittsburg, Pa. Electric-lighting system. No. 982,872; Jan. 31; Sp. p. 5929; Gaz. vol. 162; p. 1040.
Reeves, Frederick W., Pittsburg, Pa. Commutator. No. 994,480; June 6; Sp. p. 774; Gaz. vol. 167; p. 132.
Reeves, Frederick W., Pittsburg, Pa. Electromagnet-coil. No. 1,000,440; Aug. 15; Sp. p. 2616; Gaz. vol. 169; p. 487.
Reeves, Orevell C., assignor to Toledo Computing Scale Company, Toledo, Ohio. Weighing-scale. No. 999,339; Aug. 1; Sp. p. 279; Gaz. vol. 169; p. 51.
Reeves, Oscar F., Saginaw, Mich. Log-rack. No. 1,000,441; Aug. 16; Sp. p. 2618; Gaz. vol. 169; p. 487.
Reeves, Samuel T., Albany, Wis. Starting device for internal-combustion engines. No. 1,001,303; Aug. 22; Sp. p. 4524; Gaz. vol. 169; p. 821.
Reeves, Timothy, Chicago, Ill. Automatic mail-loader. No. 1,003,294; Sept. 12; Sp. p. 2433; Gaz. vol. 170; p. 419.
Regal, August, Jägerndorf, Austria-Hungary. Electric jacquard-machine for figure-weaving without cards. No. 983,862; Feb. 7; Sp. p. 1302; Gaz. vol. 163; p. 207.
Regal, August, Vienna, Austria-Hungary. Weft-replenishing device for weaving-looms. No. 1,007,143; Oct. 31; Sp. p. 5715; Gaz. vol. 171; p. 1048.
Regal, J. H. (See Helm, Virgil L., assignor.)
Regan, John, New Bedford, Mass., assignor to Crompton & Knowles Loom Works. Warp stop-motion. No. 988,387; Apr. 4; Sp. p. 214; Gaz. vol. 165; p. 35.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Double-acting door-check. No. 980,836; Jan. 3; Sp. p. 1407; Gaz. vol. 162; p. 225.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pintle-socket for doors. No. 982,160; Jan. 17; Sp. p. 4396; Gaz. vol. 162; p. 736.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door check and closer. No. 991,371; May 2; Sp. p. 1168; Gaz. vol. 166; p. 194.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Buffer. No. 993,874; May 30; Sp. p. 6533; Gaz. vol. 166; p. 1177.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door check and closer. No. 999,522; Aug. 1; Sp. p. 653; Gaz. vol. 169; p. 112.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door-check. No. 1,003,651; Sept. 19; Sp. p. 3191; Gaz. vol. 170; p. 575.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door check and closer. No. 1,003,652; Sept. 19; Sp. p. 3192; Gaz. vol. 170; p. 575.
Regan, Joseph C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door-check. No. 1,003,653; Sept. 19; Sp. p. 3194; Gaz. vol. 170; p. 576.
Regan, Joseph M., Hollywood, Cal. Oil-burning blacksmith's forge. No. 1,004,200; Sept. 26; Sp. p. 4475; Gaz. vol. 170; p. 792.
Regan, Myles, Pasadena, Cal. Lawn-mower attachment. No. 1,010,318; Nov. 28; Sp. p. 5849; Gaz. vol. 172; p. 1042.
Regelmann, Gustav. (See Walter, John H., assignor.)
Regenold, Frederick, Memphis, Tenn. Tie-wire-looping machine. No. 1,011,082; Dec. 5; Sp. p. 1492; Gaz. vol. 173; p. 236.
Regenstein, Joseph, Chicago, Ill. Pay-envelop. No. 985,061; Feb. 21; Sp. p. 3860; Gaz. vol. 163; p. 681.
Regenstreif, Jakob, Berlin, Germany, assignor to General Electric Company. Current-conductor. No. 982,873; Jan. 31; Sp. p. 5934; Gaz. vol. 162; p. 1040.
Regnier, Alfred A., Aurora, Ill., assignor to Stephens-Adamson Manufacturing Company. Gravel-screen. No. 995,567; June 20; Sp. p. 3199; Gaz. vol. 167; p. 569.
Regnier, Peter A., Kinsley, Kans. Glass-panel fastener. No. 1,011,848; Dec. 12; Sp. p. 3260; Gaz. vol. 173; p. 541.
Rego, George D., Sydney, New South Wales, Australia. Mechanical musical instrument. No. 989,874; Apr. 18; Sp. p. 3389; Gaz. vol. 165; p. 591.
Regordosa, Juan and L., Barcelona, Spain. Apparatus for dyeing skeins. No. 985,936; Mar. 7; Sp. p. 386; Gaz. vol. 164; p. 61.
Regordosa, Luis. (See Regordosa, Juan and L.)
Reguin, Ernest L., San Francisco, Cal. Vehicle-wheel. No. 1,004,819; Oct. 3; Sp. p. 579; Gaz. vol. 171; p. 95.
Rehak, James, Hawthorne, assignor to Time Marking Machine Company, Chicago, Ill. Postmarking-machine. No. 1,012,158; Dec. 19; Sp. p. 3968; Gaz. vol. 173; p. 685.
Rehbach, Hugo, Nuremberg, Germany. Toy monorail system. No. 993,104; May 23; Sp. p. 4891; Gaz. vol. 166; p. 886.
Rehberg, Frank X. (See Mahler, Henry, assignor.)
Rehfuss, Martin O., assignor to J. Wanamaker, Philadelphia, Pa. Liquid-dispensing device. No. 1,012,439; Dec. 19; Sp. p. 4547; Gaz. vol. 173; p. 778.
Rehg, Conrad G., Maplewood, Mo. Station-indicator. No. 1,007,976; Nov. 7; Sp. p. 729; Gaz. vol. 172; p. 114.
Rehländer, Paul, Charlottenburg, assignor to Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Toning blue photographic silver pictures. No. 1,009,100; Nov. 21; Sp. p. 3281; Gaz. vol. 172; p. 581.
Rehthaler, Louis. (See Mueller and Rehthaler.)
Reibstein, August, New York, N. Y. Gun. No. 1,006,402; Oct. 17; Sp. p. 4046; Gaz. vol. 171; p. 705.
Reichard, George W. (See Suman and Reichard.)
Reichardt, Ferdinand A., Elizabeth, N. J. Razor-strop. No. 1,012,099; Dec. 19; Sp. p. 3842; Gaz. vol. 173; p. 665.
Reichardt, Reinhold. (See Gilliland, Lee O., assignor.)
Reiche, Anton. (See Reiche, Max, assignor.)
Reiche, Max, assignor to A. Reiche, Dresden, Germany. Mold for chocolate, biscuits, sugar, and the like. No. 986,500; Mar. 14; Sp. p. 1584; Gaz. vol. 164; p. 282.
Reichel, Alvin S., Point Marion, Pa. Ironing-board. No. 1,007,489; Oct. 31; Sp. p. 6457; Gaz. vol. 171; p. 1169.
Reichel Automatic Fire Alarm Company, The. (See Reichel, Louis T., assignor.)
Reichel, Christopher, Amsterdam, N. Y. Protection and antiskidding armor for pneumatic tires. No. 1,012,159; Dec. 19; Sp. p. 3971; Gaz. vol. 173; p. 685.
Reichel, Louis T., Wellington, New Zealand, assignor to The Reichel Automatic Fire Alarm Company, Limited. Fire-alarm. No. 989,420; Apr. 11; Sp. p. 2390; Gaz. vol. 165; p. 404.
Reichel, Max, and H. Braun, assignors to Nitrogen-Gesellschaft m. b. H., Berlin, Germany. Producing nitrogen and carbon dioxid from gaseous products of combustion. No. 984,605; Feb. 21; Sp. p. 2948; Gaz. vol. 163; p. 523.
Reichel, Robert H., Rock Island, Ill. Lubricator. No. 1,002,313; Sept. 5; Sp. p. 291; Gaz. vol. 170; p. 40.
Reichenbach, Edward, Jefferson, Wis. Explosive burglar-alarm. No. 981,308; Jan. 10; Sp. p. 2601; Gaz. vol. 162; p. 423.
Reichenbach, Fritz, Grunewald, near Berlin, Germany. Device for supplying cold water to gas-engine pistons. No. 992,986; May 23; Sp. p. 4628; Gaz. vol. 166; p. 845.
Reichenbach, Henry M., Yonkers, N. Y., assignor to Reichenbach Laboratories Co., Chicago, Ill. Carbureting system. No. 994,658; June 6; Sp. p. 1174; Gaz. vol. 167; p. 192.

Alphabetical list of patentees—Continued.

Reichenbach Laboratories Co. (See Reichenbach, Henry M., assignor.)
Reichert, Carl E. (See Brady, Ambrose J., assignor.)
Reichert, Edward T., Jr., New York, N. Y. Warmed steering-wheel. No. 1,002,754; Sept. 5; Sp. p. 1277; Gaz. vol. 170; p. 192.
Reichheim, Edward P., Bayonne, N. J. Rotary blower. No. 1,012,440; Dec. 19; Sp. p. 4549; Gaz. vol. 173; p. 779.
Reichmann, Fritz, Watervliet, N. Y. Portable balance. No. 997,091; July 4; Sp. p. 1052; Gaz. vol. 168; p. 169.
Reichmann, Joseph, Chicago, Ill. Fluid-pressure brake apparatus. No. 991,801; May 9; Sp. p. 2076; Gaz. vol. 166; p. 372.
Reichmann, Joseph, Chicago, Ill. Engineer's valve. No. 1,001,552; Aug. 22; Sp. p. 5011; Gaz. vol. 169; p. 904.
Reid, Andrew, Colorado City, Colo. Automatic fusible lightning-arrester. No. 991,372; May 2; Sp. p. 1170; Gaz. vol. 166; p. 195.
Reid, Charles, Princeton, W. Va. Lubricator. No. 990,008; Apr. 18; Sp. p. 3683; Gaz. vol. 165; p. 638.
Reid, Edward, Albany, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Detector-bar. No. 991,170; May 2; Sp. p. 731; Gaz. vol. 166; p. 124.
Reid, Edward J., Brooklyn, N. Y. Clamp for show-fronts or show-cases. No. 1,012,708; Dec. 26; Sp. p. 5118; Gaz. vol. 173; p. 918.
Reid, George B. (See Bryan, Robert W., assignor.)
Reid, James H., Newark, N. J., assignor to G. Goodwin, Ottawa, Canada. Electric smelting and refining apparatus. No. 993,105; May 23; Sp. p. 4892; Gaz. vol. 166; p. 887.
Reid, James P., *et al.* (See Macduffee, Chester E., assignor.)
Reid, John, New York, N. Y. Ship construction. No. 986,861; Mar. 14; Sp. p. 2344; Gaz. vol. 164; p. 406.
Reid, John, Childress, Tex. Support for vehicle-canopies. No. 988,814; Apr. 4; Sp. p. 1120; Gaz. vol. 165; p. 178.
Reid, John F., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. No. 1,006,006; Oct. 17; Sp. p. 3146; Gaz. vol. 171; p. 565.
Reid, John W. P., Zanesville, Ohio. Convertible core for building-blocks. No. 990,774; Apr. 25; Sp. p. 5407; Gaz. vol. 165; p. 932.
Reid, Malcolm M. (See Colina and Reid.)
Reid, Marcellus, Cleveland, Ohio. Electroplating apparatus. No. 981,004; Jan. 10; Sp. p. 1900; Gaz. vol. 162; p. 315.
Reid, Mumm. (See Moncrieff and Reid.)
Reid, Newton L., Canton, Ill. Mold for chimney-tops. No. 1,002,314; Sept. 5; Sp. p. 293; Gaz. vol. 170; p. 41.
Reid, Robert H., Lake Charles, La. Display-cabinet. No. 992,689; May 16; Sp. p. 3977; Gaz. vol. 166; p. 709.
Reid, W. C., *et al.* (See Wilkerson, Berra M., assignor.)
Reid, Walker D., Jackson, Tenn. Scrubbing-machine. No. 990,775; Apr. 25; Sp. p. 5409; Gaz. vol. 165; p. 933.
Reid, William, Newark, N. J. Propeller. No. 1,012,441; Dec. 19; Sp. p. 4550; Gaz. vol. 173; p. 779.
Reidner, Howard W., Philadelphia, Pa., assignor of one-third to O. F. Egli and two-thirds to F. Kern. Heel-guard. No. 1,003,372; Sept. 12; Sp. p. 2586; Gaz. vol. 170; p. 445.
Reif, Nicolaus, Hanover, Germany. Manufacture of rubber substitute. No. 1,006,274; Oct. 17; Sp. p. 3764; Gaz. vol. 171; p. 662.
Reiff, Edward, *et al.* (See Schonert, Carl, assignor.)
Reiff, John P., *et al.* (See Erb, Theodore, assignor.)
Reiff, Mary J., Los Angeles, Cal. Invalid's bed. No. 989,875; Apr. 18; Sp. p. 3393; Gaz. vol. 165; p. 592.
Reifsnider, Calvin K., and F. E. Goodwin, assignors to Midland Publishing Company, St. Louis, Mo. Perpetual-inventory book. No. 998,037; July 18; Sp. p. 3116; Gaz. vol. 168; p. 567.
Reigh, Caleb F., Juniata, assignor of one-half to N. F. Arble, Pittsburg, Pa. Car-door hanger. No. 990,776; Apr. 25; Sp. p. 5412; Gaz. vol. 165; p. 933.
Reigh, Martin S., Pittsburgh, Pa. Tie and rail-fastener. No. 1,007,490; Oct. 31; Sp. p. 6458; Gaz. vol. 171; p. 1170.
Reilly, Bernard T. (See Evans and Reilly.)
Reilly, Charles J., *et al.* (See Steckle, Edward J., assignor.)
Reilly, Frederick J., New York, N. Y. Attachment for picture and other image projecting apparatus. No. 994,276; June 6; Sp. p. 361; Gaz. vol. 167; p. 61.
Reilly, Patrick M. (See Murray and Reilly.)
Reilly, Patrick M., Chicago, Ill. Core-barrel. No. 1,001,553; Aug. 22; Sp. p. 5017; Gaz. vol. 169; p. 904.
Reiman, Walter J. (See Farnoff, Jay W., assignor.)
Reimann, Adolph H., Detroit, Mich. Drill-testing gage. No. 990,668; Apr. 25; Sp. p. 5193; Gaz. vol. 165; p. 896.
Reimann, Albert, and L. Schneider, assignors to Kunstwerkzeuge G. m. b. H. Schule Reimann, Berlin, Germany. Cerographic pencil. No. 987,169; Mar. 21; Sp. p. 2978; Gaz. vol. 164; p. 541.
Reimann, Edwin, Goldfield, Nev. Fire-alarm. No. 1,003,009; Sept. 12; Sp. p. 1835; Gaz. vol. 170; p. 318.
Reimer, Gustav F., assignor to Alexander H. Revell & Company, Chicago, Ill. Cabinet. No. 1,009,176; Nov. 21; Sp. p. 3424; Gaz. vol. 172; p. 606.
Reimers, Alfred E., Kansas City, Mo. Field-magnet for electric motors and generators. No. 998,302; July 18; Sp. p. 3725; Gaz. vol. 168; p. 663.
Reimund, John B., Chicago, Ill. Geneva gear. No. 982,874; Jan. 31; Sp. p. 5935; Gaz. vol. 162; p. 1041.
Rein, Robert, Berlin, Germany. Motor mechanism for calculating-machines. No. 988,144; Mar. 28; Sp. p. 5088; Gaz. vol. 164; p. 902.
Reinbold, Philip, Saginaw, Mich. Loading mechanism. No. 1,006,790; Oct. 24; Sp. p. 4920; Gaz. vol. 171; p. 871.
Reinecke, John P., Crafton, assignor to Pittsburg Water Heater Company, Pittsburg, Pa. Water-valve. No. 993,106; May 23; Sp. p. 4893; Gaz. vol. 166; p. 887.
Reinecke, William, New York, N. Y. Feeding means for belt conveyers. No. 983,313; Feb. 7; Sp. p. 119; Gaz. vol. 163; p. 21.
Reinecke, William, New York, N. Y. Feeding means for belt conveyers. No. 983,568; Feb. 7; Sp. p. 689; Gaz. vol. 163; p. 107.
Reinehr, John, Savanna, assignor to Rail Laying Machine Company, Chicago, Ill. Rail-handling apparatus. No. 992,594; May 16; Sp. p. 3814; Gaz. vol. 166; p. 679.
Reineke, Walter E., Austin, assignor to Simplex Metal Bound Box Company, Chicago, Ill. Box. No. 995,719; June 20; Sp. p. 3543; Gaz. vol. 167; p. 624.
Reinfeld, Henry, St. Louis, Mo. Trick-cutlery. No. 992,251; May 16; Sp. p. 3054; Gaz. vol. 166; p. 558.
Reinforced Concrete Company. (See Brussel, Hugues, assignor.)
Reinhard, George F., Evanston, Ill., assignor to Oliver Machinery Company, Grand Rapids, Mich. Blacksmith-forge. No. 995,182; June 13; Sp. p. 2362; Gaz. vol. 167; p. 409.
Reinhard, Henry, assignor to Tubes Limited, Aston, Birmingham, England. Manufacture of metal tubes or the like. No. 989,643; Apr. 18; Sp. p. 2902; Gaz. vol. 165; p. 512.
Reinhard, Wilhelm, Krefeld, Germany. Means for propping mines. No. 988,948; Apr. 4; Sp. p. 1374; Gaz. vol. 165; p. 220.
Reinhardt, Henry J., Chicago, Ill. Rail-joint. No. 1,011,371; Dec. 12; Sp. p. 2196; Gaz. vol. 173; p. 374.
Reinhardt, Walter, Frankfort-on-the-Main, Germany. Treating malt. No. 989,421; Apr. 11; Sp. p. 2392; Gaz. vol. 165; p. 404.
Reinheimer, Harry E., *et al.* (See Bell and McKiel, assignors.)
Reiniger, Henry G., Rathdrum, Idaho. Screw. No. 984,969; Feb. 21; Sp. p. 3678; Gaz. vol. 163; p. 649.
Reinikka, Antti, Issaquah, Wash. Penholder. No. 992,987; May 23; Sp. p. 4631; Gaz. vol. 166; p. 845.
Reininger, Richard, Newark, N. J. Vehicle-wheel. No. 989,049; Apr. 11; Sp. p. 1588; Gaz. vol. 165; p. 279.
Reinoehl, Charles W., deceased, (H. B. Reinoehl, administratrix,) Steelton, and B. L. Weaver, Middletown, Pa. Railway structure. No. 983,839; Feb. 7; Sp. p. 1254; Gaz. vol. 163; p. 200.
Reinoehl, Charles W., deceased, and B. L. Weaver; H. B. Reinoehl, Steelton, Pa., administratrix. Railway-rail support. No. 1,005,785; Oct. 10; Sp. p. 2651; Gaz. vol. 171; p. 457.
Reinoehl, Charles W., deceased, (H. B. Reinoehl, administratrix,) and B. L. Weaver, Steelton, Pa. Slide-plate for railway-switches. No. 987,402; Mar. 21; Sp. p. 3477; Gaz. vol. 164; p. 622.
Reinoehl, Charles W., deceased, Steelton, (H. B. Reinoehl, administratrix,) and W. M. Henderson, High Spire, Pa. Guard-rail clamp. No. 987,400; Mar. 21; Sp. p. 3473; Gaz. vol. 164; p. 621.
Reinoehl, Charles W., deceased, (H. B. Reinoehl, administratrix,) and W. M. Henderson, Steelton, Pa. Car-derailing device. No. 987,401; Mar. 21; Sp. p. 3475; Gaz. vol. 164; p. 621.
Reinoehl, Charles W., and B. L. Weaver, Steelton, Pa., assignors to R. & W. Company. Machine for making step-joints. No. 1,003,654; Sept. 19; Sp. p. 3196; Gaz. vol. 170; p. 576.
Reinoehl, Helen B., administratrix. (See Reinoehl and Henderson.)
Reinoehl, Helen B., administratrix. (See Reinoehl and Weaver.)
Reintanz, Max, and A. Rothe, Dresden, Germany; said Reintanz assignor to The National Cash Register Company. Hand receipt-stamp. No. 997,850; July 11; Sp. p. 2672; Gaz. vol. 168; p. 459.
Reirson, Oscar, Peabody, Mass. Cylinder-grinder for leather-shaving machines. No. 980,561; Jan. 3; Sp. p. 835; Gaz. vol. 162; p. 135.
Reis, Harry. (See Ostergren, Oscar P., assignor.)
Reisert, Hans, Cologne, Germany. Water-purifying apparatus. No. 1,009,857; Nov. 28; Sp. p. 4916; Gaz. vol. 172; p. 888.
Reising, Frank L., Piper City, Ill. Attachment for pneumatic stackers. No. 994,788; June 13; Sp. p. 1509; Gaz. vol. 167; p. 277.
Reisman, Adolph, New York, N. Y. Convertible chair. No. 983,768; Feb. 7; Sp. p. 1092; Gaz. vol. 163; p. 175.
Reiss Bros. & Co. (See Burger, Jacob D., assignor.)

Alphabetical list of patentees—Continued.

Reiss, Charles, and F. B. Loufek, Mount Auburn, Iowa. Harrow attachment for planters. No. 981,796; Jan. 17; Sp. p. 3598; Gaz. vol. 162; p. 611.
Reiss, Rudolf, Vienna, Austria-Hungary. Key-locking device. No. 995,094; June 13; Sp. p. 2198; Gaz. vol. 167; p. 381.
Reiss, Sally, Bordeaux, France, assignor, by mesne assignments, to Cresca Company, New York, N. Y. Closure for receptacles. No. 995,720; June 20; Sp. p. 3544; Gaz. vol. 167; p. 624.
Reissner, Frederick, and H. J. Warren, assignors to Stamford Gas Stove Company, Stamford, Conn. Water-heater. No. 996,427; June 27; Sp. p. 5152; Gaz. vol. 167; p. 902.
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 996,883; July 4; Sp. p. 586; Gaz. vol. 168; p. 97.
Reist, Henry G., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,008,561; Nov. 14; Sp. p. 2110; Gaz. vol. 172; p. 361.
Reist, Kirby S., and S. B. Batsford, Berkeley, Cal. Distributer and assembler for linotype-machines. No. 1,005,576; Oct. 10; Sp. p. 2227; Gaz. vol. 171; p. 384.
Reist, Warren D., Williamsville, N. Y. Trolley-placer. No. 1,002,755; Sept. 5; Sp. p. 1279; Gaz. vol. 170; p. 192.
Reiter, John M., and H. L. Dout, Missoula, Mont. Water and steam coupling. No. 987,490; Mar. 21; Sp. p. 3656; Gaz. vol. 164; p. 651.
Reiter, John M., and H. L. Dout, Missoula, Mont. Boiler-check. No. 987,491; Mar. 21; Sp. p. 3657; Gaz. vol. 164; p. 652.
Reith, George C., and G. F. Flade, Philadelphia, Pa. Coin-selector. No. 999,124; July 25; Sp. p. 5509; Gaz. vol. 168; p. 981.
Reitler, Ernst. (See Kurzwernhart, Adalbert, assignor.)
Reitmeyer, James S. (See Buck, David V., assignor.)
Reitmeyer, William T., and P. J. Kelly, Philadelphia, Pa. Rail-joint. No. 996,139; June 27; Sp. p. 4437; Gaz. vol. 167; p. 803.
Reitz, Edwin A., Pansy, Pa. Window-screen. No. 996,941; July 4; Sp. p. 713; Gaz. vol. 168; p. 117.
Reliance Ball-Bearing Door Hanger Co. (See Cossey, Myron, assignor.)
Reliance Engineering & Manufacturing Company of Chicago, The. (See Baehr, William A., assignor.)
Relph, Edward J., assignor to G. S. Wood, Chicago, Ill. Means for securing roundels in semaphore-signals. No. 992,062; May 9; Sp. p. 2595; Gaz. vol. 166; p. 462.
Relth, William B., Chicago, Ill., assignor of nine-tenths to H. G. Guyle, West Union, Nebr. Multiple telephone-receiver. No. 989,191; Apr. 11; Sp. p. 1884; Gaz. vol. 165; p. 327.
"Relyante" Motor Works, The. (See Hodgson, Albert E., assignor.)
Remané, Hermann, Berlin, Germany, assignor, by mesne assignments, to General Electric Company. Anchoring filaments. No. 994,425; June 6; Sp. p. 675; Gaz. vol. 167; p. 115.
Remané, Hermann, Berlin, Germany, assignor, by mesne assignments, to General Electric Company. Electric incandescent lamp. No. 994,690; June 6; Sp. p. 1256; Gaz. vol. 167; p. 203.
Remané, Hermann C. G., Berlin, Germany, assignor, by mesne assignments, to General Electric Company. Electric incandescent lamp. No. 997,413; July 11; Sp. p. 1698; Gaz. vol. 168; p. 309.
Rembilt, Arthur G., Philadelphia, Pa. Telephone. No. 1,001,685; Aug. 29; Sp. p. 5308; Gaz. vol. 169; p. 980.
Remick, Charles. (See Remick, Louis, assignor.)
Remick, Louis, assignor of one-half to C. Remick, Passaic, N. J. Crutch-supporting attachment. No. 1,006,791; Oct. 24; Sp. p. 4923; Gaz. vol. 171; p. 871.
Remington, Earle. (See Stevens, William, assignor.)
Remington, Joseph P., Jr., Philadelphia, Pa. Boxing mechanism for cartridges or shells. No. 987,914; Mar. 28; Sp. p. 4579; Gaz. vol. 164; p. 825.
Remington Typewriter Company. (See Barron, Walter J., assignor.)
Remington Typewriter Company. (See Greenwood, George A., assignor.)
Remington Typewriter Company. (See Seib, George A., assignor.)
Remington Typewriter Company. (See Steiger, Andrew W., assignor.)
Remington Typewriter Company. (See Yaw, Clio B., assignor.)
Remisch, Edward T., Kalamazoo, assignor of one-fourth to C. W. Martin and one-fourth to F. B. Monroe, Sr., Battle Creek, Mich. Convertible tool. No. 984,778; Feb. 21; Sp. p. 3326; Gaz. vol. 163; p. 586.
Remmele, Louis J. (See Moller and Remmele.)
Remnsnider, George, assignor to Ideal Stencil Machine Co., Belleville, Ill. Stencil-cutting machine. No. 997,582; July 11; Sp. p. 2040; Gaz. vol. 168; p. 364.
Remnsnider, George, assignor to Ideal Stencil Machine Co., Belleville, Ill. Rotary feed for stencil-machines. No. 997,583; July 11; Sp. p. 2043; Gaz. vol. 168; p. 365.
Rempe, Jacob E., Kankakee, Ill., assignor to Richmond Cedar Works, Richmond, Va. Gearing for washing-machines. No. 997,851; July 11; Sp. p. 2677; Gaz. vol. 168; p. 459.
Rempes, Charles L., Akron, Ohio. Tire. No. 1,005,470; Oct. 10; Sp. p. 1956; Gaz. vol. 171; p. 345.
Remy, Benjamin P. (See Remy, Frank I. and B. P.)
Remy, Benjamin P. and F. I., assignors to Remy Electric Company, Anderson, Ind. Armature. No. 998,635; July 25; Sp. p. 4433; Gaz. vol. 168; p. 811.
Remy, Benjamin P. and F. I., assignors to The Remy Electric Company, Anderson, Ind. Vulcanizing apparatus. No. 1,004,820; Oct. 3; Sp. p. 581; Gaz. vol. 171; p. 96.
Remy Electric Company, The. (See Remy, Benjamin P. and F. I., assignors.)
Remy Electric Company. (See Remy, Frank I. and B. P., assignors.)
Remy, Frank I. (See Remy, Benjamin P. and F. I.)
Remy, Frank I. and B. P., assignors to Remy Electric Company, Anderson, Ind. Magneto-electric generator. No. 983,932; Feb. 14; Sp. p. 1478; Gaz. vol. 163; p. 260.
Remy, Pierre N. E., assignor to Société Le Ferment, Paris, France. Means for introducing microbe cultures into bottles or other vessels. No. 988,031; Mar. 28; Sp. p. 4870; Gaz. vol. 164; p. 866.
Rendahl, Ragnar H., Liljehelmen, near Stockholm, Sweden. Antenna. No. 1,005,471; Oct. 10; Sp. p. 1958; Gaz. vol. 171; p. 346.
Rendahl, Ragnar H., assignor to Gesellschaft für drahtlose Telegraphie m. b. H., Berlin, Germany. Receiver for wireless telegraphy. No. 994,426; June 6; Sp. p. 677; Gaz. vol. 167; p. 115.
Rendall, George F., New York, N. Y. Reduction plant for treatment of metallic sands or concentrates. No. 986,086; Mar. 7; Sp. p. 704; Gaz. vol. 164; p. 113.
Rendleman, Mildred P., Harrisburg, Ill. Stovepipe-hanger. No. 985,062; Feb. 21; Sp. p. 3861; Gaz. vol. 163; p. 682.
Renée, Jules M. (See Jouffret and Renée.)
Renfrew Manufacturing Company. (See Thomson, Charles R., assignor.)
Renfro, Alva D., assignor to Renfro Speed-O-Meter Company, Detroit, Mich. Speed indicator and recorder. No. 982,021; Jan. 17; Sp. p. 4136; Gaz. vol. 162; p. 690.
Renfro, John W. (See McGrail and Renfro.)
Renfro, Minerva E., administratrix. (See McGrail and Renfro.)
Renfro Speed-O-Meter Company. (See Renfro, Alva D., assignor.)
Renfrow, William C. (See Ditmars, Frederick R. S., assignor.)
Rengert, Arthur G., Detroit, Mich. Changeable-advertising device. No. 1,009,574; Nov. 21; Sp. p. 4346; Gaz. vol. 172; p. 747.
Renkewitz, Emil, assignor to Berlin-Anhaltische Maschinenbau-Actien-Gesellschaft, Berlin, Germany. System for opening and closing gas-valves from a distance. No. 980,334; Jan. 3; Sp. p. 304; Gaz. vol. 162; p. 55.
Renneburg, Frederick P., Baltimore, Md. Press. No. 1,005,472; Oct. 10; Sp. p. 1958; Gaz. vol. 171; p. 346.
Renner, William E. (See Wildman, Linley, assignor.)
Rennerfelt, Gustaf, Scranton, Pa. Elastic-wheel bearing. No. 1,005,473; Oct. 10; Sp. p. 1961; Gaz. vol. 171; p. 346.
Rennert, Paul, Hagen, Germany. Miner's lamp. No. 987,744; Mar. 28; Sp. p. 4196; Gaz. vol. 164; p. 766.
Rennie, John A., Delawanna, N. J., assignor to Star Seal Company. Bottle-seal. No. 982,875; Jan. 31; Sp. p. 5937; Gaz. vol. 162; p. 1041.
Rennie, John C., Minneapolis, Minn., assignor to Allis-Chalmers Company, Milwaukee, Wis. Offsetting device for sawmill-carriages. No. 995,183; June 13; Sp. p. 2363; Gaz. vol. 167; p. 410.
Rennie, Ronald H., and C. C. Jessen, Oakland, Cal. Electric detonator and exploder. No. 991,373; May 2; Sp. p. 1172; Gaz. vol. 166; p. 195.
Rennie, William D., Hackensack, N. J., assignor to Universal Ore Reduction Company, Phoenix, Ariz. Electrolytically extracting metals from their ores. No. 988,210; Mar. 28; Sp. p. 5209; Gaz. vol. 164; p. 924.
Rennie, William D., Hackensack, N. J., assignor to Universal Ore Reduction Company, Phoenix, Ariz. Extracting metals, such as gold, silver, copper, or nickel, from their native ores. No. 989,802; Apr. 18; Sp. p. 3246; Gaz. vol. 165; p. 567.
Rennie, William D., Hackensack, N. J., assignor to Universal Ore Reduction Company, Phoenix, Ariz. Mixture or composition for use in the art of extracting the precious metals, gold and silver, from their native ores. No 989,803; Apr. 18; Sp. p. 3248; Gaz. vol. 165; p. 568.
Rennie, William D., Hackensack, N. J., assignor to Universal Ore Reduction Company, Phoenix, Ariz. Mixture or composition for use in the art of extracting the precious metals, gold and silver, from their native ores. No. 989,804; Apr. 18; Sp. p. 3249; Gaz. vol. 165; p. 568.
Renniee, John A. (See Driscoll and Renniee.)
Renniee, John A., New York, N. Y. Propelling and balancing apparatus for airships. No. 996,728; July 4; Sp. p. 257; Gaz. vol. 168; p. 45.
Renninger, Paul J., Reading Pa. Bookbinding. No. 998,303; July 18; Sp. p. 3726; Gaz. vol. 168; p. 663.
Reno, Charles S., Cincinnati, Ohio. Commutator-short-circuiting device. No. 1,007,893; Nov. 7; Sp. p. 558; Gaz. vol. 172; p. 86.
Renshaw, Charles, L. Fairhurst, and G. H. Cranshaw, Blackburn, England, Ring-spinning machine. No. 1,005,877; Oct. 17; Sp. p. 2862; Gaz. vol. 171; p. 520.

Alphabetical list of patentees—Continued.

Rensland, Nels K., Upham, N. D. Link-motion valve-gear. No. 1,006,275; Oct. 17; Sp. p. 3766; Gaz. vol. 171; p. 662.
Rentschler, George, Chester township, Logan county, Ill. Trip bale-hook. No. 986,644; Mar. 14; Sp. p. 1891; Gaz. vol. 164; p. 334.
Rentz, John R., Moline, Ill. Cleaning paper and preparing the same. No. 995,904; June 20; Sp. p. 3960; Gaz. vol. 167; p. 687.
Renwick, Charles W., Isabella, Tenn. Roasting sulfid ores. No. 981,880; Jan. 17; Sp. p. 3788; Gaz. vol. 162; p. 640.
Renwick, Frederick W., *et al.* (See Renwick, Victor D., Jr., assignor.)
Renwick, Victor D., Jr., Pleasantville, assignor of one-fourth to F. W. Renwick, one-fourth to G. C. Harris, and one-fourth to C. B. Smith, Atlantic City, N. J. Foot-operated valve. No. 1,004,467; Sept. 26; Sp. p. 5010; Gaz. vol. 170; p. 881.
Reo Motor Car Company. (See Thomas, Horace T., assignor.)
Repass, Frank L., Granby, Mo. Latch. No. 994,789; June 13; Sp. p. 1510; Gaz. vol. 167; p. 278.
Repetto, John, Philadelphia, Pa. Vehicle. No. 993,796; May 30; Sp. p. 6383; Gaz. vol. 166; p. 1151.
Replogle, James B. (See Linder and Replogle.)
Repp, Clinton B., New York, N. Y., assigner of one-half to W. E. Cook, Roxbury, Mass. Phonograph. No. 1,003,655; Sept. 19; Sp. p. 3198; Gaz. vol. 170; p. 576.
Resch, Hermann, Sr., Lörrach, Germany. Apparatus for use in dyeing wound yarn. No. 990,064; Apr. 18; Sp. p. 3788; Gaz. vol. 165; p. 656.
Resch, Ralph R. (See Lambert and Resch.)
Reschke, William F., Wichita, and L. Rumford, Stafford, Kans. Whip-socket. No. 987,257; Mar. 21; Sp. p. 3164; Gaz. vol. 164; p. 573.
Research Syndicate Limited. (See Perkin and Weizmann, assignors.)
Reshaw, George O., Olathe, Colo. Combined scrubber and mop. No. 1,009,177; Nov. 21; Sp. p. 3426; Gaz. vol. 172; p. 606.
Resistocrete Company, The. (See Brand, Robert E., assignor.)
Ressencourt, Eugène G., assignor to E. H. Chamberlain, trustee, St. Louis, Mo. Fruit extract and making same. No. 1,001,554; Aug. 22; Sp. p. 5019; Gaz. vol. 169; p. 905.
Ressencourt, Eugène G., assignor to E. H. Chamberlain, trustee, St. Louis, Mo. Peach extract and making same. No. 1,001,555; Aug. 22; Sp. p. 5021; Gaz. vol. 169; p. 905.
Ressencourt, Eugène G., assignor to E. H. Chamberlain, trustee, St. Louis, Mo. Making strawberry and raspberry extract. No. 1,001,556; Aug. 22; Sp. p. 5022; Gaz. vol. 169; p. 905.
Ressler, Carthon H., Cambridge City, assignor of one-half to A. R. Maxwell, North Vernon, Ind. Adjustable handle-holder. No. 998,038; July 18; Sp. p. 3118; Gaz. vol. 168; p. 567.
Restucci, Giuseppe, assignor of one-half to T. P. Pugliatti, Naples, Italy. Resilient wheel. No. 1,001,686; Aug. 29; Sp. p. 5313; Gaz. vol. 169; p. 981.
Retallack, Joseph, Denver, Colo. Time tempering-machine. No. 1,004,591; Oct. 3; Sp. p. 87; Gaz. vol. 171; p. 16.
Retallick, William. (See Klinger and Retallick.)
Retrum, Alvin O. (See Peterson and Retrum.)
Rettich, Victor A., New York, N. Y. Gas-lamp. No. 1,002,315; Sept. 5; Sp. p. 295; Gaz. vol. 170; p. 41.
Rettinger, Robert G., assignor of one-half to W. H. Greenough, Sunbury, Pa. Airship. No. 983,459; Feb. 7; Sp. p. 433; Gaz. vol. 163; p. 70.
Rettmeyer, Carl. (See Moll, Isenhagen, and Rettmeyer.)
Reubold, Adam, New York, N. Y. Meat-cooker. No. 1,006,792; Oct. 24; Sp. p. 4924; Gaz. vol. 171; p. 872.
Reubold, Wilhelm, Karlshorst, near Berlin, Germany. Device for automatically charging the delivery-buckets of elevators. No. 1,003,511; Sept. 19; Sp. p. 2877; Gaz. vol. 170; p. 525.
Reusche, Louis, New York, N. Y. Painter's palette. No. 1,009,995; Nov. 28; Sp. p. 5195; Gaz. vol. 172; p. 933.
Reuter, Frederick. (See Duryea and Reuter.)
Reuter, Jacob. (See Hollingsworth and Reuter.)
Reuter, Theodor, Winterthur, Switzerland. Internal-combustion engine. No. 1,008,863; Nov. 14; Sp. p. 2761; Gaz. vol. 172; p. 465.
Reuterdahl, Arvid, Boise, Idaho. Flume or culvert. No. 1,010,074; Nov. 28; Sp. p. 5366; Gaz. vol. 172; p. 962.
Reuther, John, East Aurora, N. Y. Potato-digger. No. 1,008,673; Nov. 14; Sp. p. 2370; Gaz. vol. 172; p. 400.
Reutter, Wilhelm, Stuttgart, Germany. Collapsible cover or hood for motor and like vehicles. No. 1,003,656; Sept. 19; Sp. p. 3204; Gaz. vol. 170; p. 577.
Revels, Jacob, Portland, Mich. Envelop-opener. No. 984,299; Feb. 14; Sp. p. 2279; Gaz. vol. 163; p. 386.
Revere Rubber Company. (See Cobb, Henry Z., assignor.)
Revere Rubber Company. (See Patterson, John S., assignor.)
Revere Rubber Company. (See Reed, William H., assignor.)
Rexford, Ley P., assignor to American Paper Products Company, St. Louis, Mo. Folding packing-box. No. 996,364; June 27; Sp. p. 4992; Gaz. vol. 167; p. 879.
Rexine, William. (See Birchard and Rexine.)
Rexroad, Adam F. (See Nichols, Will, assignor.)
Rexroth, Harry J. G., Bucyrus, Ohio. Railway-tie. No. 997,208; July 4; Sp. p. 1285; Gaz. vol. 168; p. 209.
Rey, Hermann, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Dehydrating hydrated hydrosulfites. No. 987,170; Mar. 21; Sp. p. 2979; Gaz. vol. 164; p. 541.
Reyam, David. (See Dilks, Reyam, and Du Pont.)
Reyburn, John E. (See Rankin, William K., assignor.)
Reynders, Arthur B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Time-limit relay. No. 995,184; June 13; Sp. p. 2365; Gaz. vol. 167; p. 410.
Reynders, Arthur B., and J. E. Mateer, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Insulating structure. No. 984,156; Feb. 14; Sp. p. 1954; Gaz. vol. 163; p. 335.
Reynolds, Abby E., administratrix. (See Reynolds, George H.)
Reynolds, Alva L., Huntington Beach, assignor to The Globe Wave Power and Electric Company, Los Angeles, Cal. Wave-power system. No. 988,508; Apr. 4; Sp. p. 459; Gaz. vol. 165; p. 74.
Reynolds, Charles R. (See Wells and Reynolds.)
Reynolds, Charles R., South Framingham, Mass., assignor to Fibre Products Company, New York, N. Y. Centrifugal machine. No. 987,745; Mar. 28; Sp. p. 4197; Gaz. vol. 164; p. 766.
Reynolds, Christopher, Carlock, Ill. Automobile wheel and hub. No. 988,815; Apr. 4; Sp. p. 1122; Gaz. vol. 165; p. 179.
Reynolds, Clark B., Chicago, Ill. Ironing-board. No. 998,988; July 25; Sp. p. 5252; Gaz. vol. 168; p. 936.
Reynolds, David M., *et al.* (See Omalia, Matthew, assignor.)
Reynolds, Francis M., Kittanning, Pa. Broom-guard. No. 999,591; Aug. 1; Sp. p. 785; Gaz. vol. 169; p. 136.
Reynolds, Fred D. (See Broughton and Reynolds.)
Reynolds, Fred S., Cranston, assignor to Cory & Reynolds Company, Providence, R. I. Article of jewelry having interchangeable setting. No. 996,678; July 4; Sp. p. 164; Gaz. vol. 168; p. 29.
Reynolds, George A., assignor to The Felters Company, Lestershire, N. Y. Making collar-pads. No. 1,002,177; Aug. 29; Sp. p. 6328; Gaz. vol. 169; p. 1143.
Reynolds, George A., and P. C. Ten Eyck, Syracuse, N. Y. Penman's guide. No. 988,816; Apr. 4; Sp. p. 1123; Gaz. vol. 165; p. 179.
Reynolds, George H., Mansfield Depot, Conn., assignor to General Fire Extinguisher Company. Upsetting-machine. No. 989,805; Apr. 18; Sp. p. 3250; Gaz. vol. 165; p. 568.
Reynolds, George H., deceased, Mansfield Depot, Conn.; A. E. Reynolds, administratrix, assignor to General Fire Extinguisher Company. Tube-bending apparatus. No. 995,568; June 20; Sp. p. 3200; Gaz. vol. 167; p. 569.
Reynolds, George H., deceased; A. E. Reynolds, Mansfield Depot, Conn., administratrix, assignor to General Fire Extinguisher Company. Flanging tubes. No. 1,000,122; Aug. 8; Sp. p. 1923; Gaz. vol. 169; p. 346.
Reynolds, George H., Mansfield Depot, Conn., assignor to The Reynolds Ice Machine Company, New York, N. Y. Expansion-engine. No. 1,005,878; Oct. 17; Sp. p. 2863; Gaz. vol. 171; p. 521.
Reynolds, Harry M., Grand Rapids, Mich. Packing roofing material. No. 1,008,435; Nov. 14; Sp. p. 1816; Gaz. vol. 172; p. 315.
Reynolds, Horace D. (See Page, Carl M., assignor.)
Reynolds Ice Machine Company, The. (See Reynolds, George H., assignor.)
Reynolds, Irving H., and F. E. Norton, Youngstown, Ohio. Drying air. No. 1,004,468; Sept. 26; Sp. p. 5013; Gaz. vol. 170; p. 882.
Reynolds, James F., assignor to The American Railway Device Company, Crete, Nebr. Automatic brake-setting mechanism. No. 986,407; Mar. 7; Sp. p. 1369; Gaz. vol. 164; p. 220.
Reynolds, John, *et al.* (See Omalia, Matthew, assignor.)
Reynolds, John R., assignor to The Smyth Manufacturing Company, Hartford, Conn. Cutting apparatus for paper-cutting machines. No. 996,140; June 27; Sp. p. 4438; Gaz. vol. 167; p. 803.
Reynolds, John S. (See White, Frank M., assignor.)
Reynolds, John W. (See Bischoff and Reynolds.)
Reynolds, Louis H., *et al.* (See Van Wye, Garry P., assignor.)
Reynolds Machine Company. (See Hunt and Weaver, assignors.)
Reynolds, Robert A., Detroit, Mich. Internal-combustion engine. No. 1,002,756; Sept. 5; Sp. p. 1280; Gaz. vol. 170; p. 192.
Reynolds, Robert A., Detroit, Mich. Internal-combustion engine. No. 1,007,491; Oct. 31; Sp. p. 6460; Gaz. vol. 171; p. 1170.
Reynolds, Thomas A., London, England. Index for barometers and other indicating instruments. No. 987,746; Mar. 28; Sp. p. 4200; Gaz. vol. 164; p. 767.
Reynolds, Walter J., Providence, R. I. Frying-pan. No. 997,414; July 11; Sp. p. 1699; Gaz. vol. 168; p. 309.

Alphabetical list of patentees—Continued.

Reynolds, William M., assignor to The American Rolling Mill Company, Middletown, Ohio. Flume. No. 985,937; Mar. 7; Sp. p. 389; Gaz. vol. 164; p. 61.
Reynolds, William M., assignor to The American Rolling Mill Company, Middletown, Ohio. Flume. No. 985,938; Mar. 7; Sp. p. 391; Gaz. vol. 164; p. 62.
Reynolds, William M., assignor to American Rolling Mill Company, Middletown, Ohio. Flume. No. 986,025; Mar. 7; Sp. p. 583; Gaz. vol. 164; p. 93.
Reynolds, Winfield S., Jersey City, N. J. Means for gaging sheet metal in cutting. No. 1,003,373; Sept. 12; Sp. p. 2587; Gaz. vol. 170; p. 445.
Reyscher, Karl, Bielefeld, Germany. Drying method. No. 997,092; July 4; Sp. p. 1054; Gaz. vol. 168; p. 170.
Rhame, Willie W. (See Nuckolls, Samuel H., assignor.)
Rhame, Willie W., Summerville, and S. H. Nuckolls, Charleston, S. C.; said Nuckolls assignor to said Rhame. Indicating-clock. No. 989,290; Apr. 11; Sp. p. 2118; Gaz. vol. 165; p. 361.
Rhame, Willie W., Summerville, and S. H. Nuckolls, Charleston, S. C.; said Nuckolls assignor to said Rhame. Resilient wheel. No. 998,636; July 25; Sp. p. 4434; Gaz. vol. 168; p. 811.
Rhea, James I. (See Airhart and Rhea.)
Rhea, James S., Purdy, Mo. Acetylene-gas generator. No. 982,389; Jan. 24; Sp. p. 4891; Gaz. vol. 162; p. 847.
Rheem, William S., Oakland, M. L. Chappell, Berkeley, and J. C. Black, Stege, assignors to Standard Oil Company, Richmond, Cal. Fire-extinguishing composition. No. 984,853; Feb. 21; Sp. p. 3458; Gaz. vol. 163; p. 611.
Rhein, Gabriel J. (See Rhein, Martin and G. J.)
Rhein, Martin and G. J., Baltimore, Md. Shade-roller bracket. No. 993,107; May 23; Sp. p. 4895; Gaz. vol. 166; p. 887.
Rheinberger, Alfonso R., St. Paul, Minn. Lightning-arrester. No. 991,749; May 9; Sp. p. 1977; Gaz. vol. 166; p. 355.
Rheinische Metallwaaren- und Maschinenfabrik. (See Grauheding, Oscar, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Müller, Emil, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Schauwinhold, Carl, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Schmeisser, Louis, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Thilo, Walter, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Völler, Karl, assignor.)
Rheinstrom, Isaac. (See Bodman, Walter L., assignor.)
Rheinstrom, Isaac. (See Bodman and Rheinstrom, assignors.)
Rheinstrom, Maurice G. (See Bodman and Rheinstrom.)
Rhett, Henry P., Hempstead, N. Y. Airship. No. 994,197; June 6; Sp. p. 203; Gaz. vol. 167; p. 35.
Rhett, Henry P., Hempstead, N. Y. Aeroplane. No. 994,198; June 6; Sp. p. 204; Gaz. vol. 167; p. 35.
Rhett, James M., Beaufort, S. C. Automatic reversing-switch for gas-engines. No. 995,482; June 20; Sp. p. 3026; Gaz. vol. 167; p. 539.
Rhinehart, Lewis M., *et al.* (See Dunham, William L., assignor.)
Rhoades, Alonzo E. (See Osgood and Rhoades.)
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Filling-exhaustion-indicating mechanism for looms. No. 981,112; Jan. 10; Sp. p. 2137; Gaz. vol. 162; p. 353.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Supporting means for loom-beams. No. 981,944; Jan. 17; Sp. p. 3979; Gaz. vol. 162; p. 664.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Take-up mechanism for looms. No. 982,390; Jan. 24; Sp. p. 4893; Gaz. vol. 162; p. 849.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Comb for warpers and slashers. No. 984,107; Feb. 14; Sp. p. 1857; Gaz. vol. 163; p. 319.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Check for picker-sticks. No. 987,915; Mar. 28; Sp. p. 4585; Gaz. vol. 164; p. 825.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Twister. No. 989,050; Apr. 11; Sp. p. 1592; Gaz. vol. 165; p. 279.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Ring spinning or twisting machine. No. 990,501; Apr. 25; Sp. p. 4821; Gaz. vol. 165; p. 841.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Filling-exhaustion-indicating mechanism for looms. No. 992,988; May 23; Sp. p. 4632; Gaz. vol. 166; p. 845.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Filling-carrier for automatic feeler-looms. No. 992,989; May 23; Sp. p. 4636; Gaz. vol. 166; p. 846.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Filling-feeder for automatic filling-replenishing looms. No. 995,290; June 13; Sp. p. 2562; Gaz. vol. 167; p. 444.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Separating means for spinning or twisting machines. No. 1,008,066; Nov. 7; Sp. p. 905; Gaz. vol. 172; p. 145.
Rhoades, Alonzo E., assignor to Draper Company, Hopedale, Mass. Thread-parting mechanism for looms. No. 1,009,178; Nov. 21; Sp. p. 3428; Gaz. vol. 172; p. 607.
Rhoades, Edward H., Jr., trustee. (See Huyck, Francis P., assignor.)
Rhoades, Granville, assignor to The Rhoades Novelty Company, London, Ohio. Device for holding and opening paper bags. No. 991,245; May 2; Sp. p. 892; Gaz. vol. 166; p. 151.
Rhoades, Lewis T., Mont Clare, Pa., assignor to New York Coil Company, New York, N. Y. Electric switch. No. 994,952; June 13; Sp. p. 1893; Gaz. vol. 167; p. 333.
Rhoades Novelty Company, The. (See Rhoades, Granville, assignor.)
Rhoades, Thomas, Hanna, Utah. Airship. No. 993,108; May 23; Sp. p. 4896; Gaz. vol. 166; p. 888.
Rhoads, Cresse P. (See Herrold and Rhoads.)
Rhoads, Errett S. (See Ross and Rhoads.)
Rhoads, James, assignor of one-half to H. J. Saul, Dunlo, Pa. Nut-lock. No. 989,192; Apr. 11; Sp. p. 1885; Gaz. vol. 165; p. 327.
Rhoads, John C., Philadelphia, Pa. Car-wheel lubricator. No. 1,005,309; Oct. 10; Sp. p. 1616; Gaz. vol. 171; p. 290.
Rhoads, Samuel M., Philadelphia, Pa. Hose-coupling. No. 980,677; Jan. 3; Sp. p. 1093; Gaz. vol. 162; p. 174.
Rhode Island Perkins Horse Shoe Company. (See Comstock, Richard W., Jr., assignor.)
Rhode Island Perkins Horse Shoe Company. (See Watrous, Ralph C., assignor.)
Rhodes, Bert O., assignor to J. B. Rhodes, Kalamazoo, Mich. Route-indicator. No. 1,010,802; Dec. 5; Sp. p. 895; Gaz. vol. 173; p. 140.
Rhodes, Charles M., Steubenville, Ohio. Reversible transmission-gearing. No. 982,530; Jan. 24; Sp. p. 5200; Gaz. vol. 162; p. 896.
Rhodes, Charles M., Steubenville, Ohio. Power-motor. No. 984,025; Feb. 14; Sp. p. 1694; Gaz. vol. 163; p. 291.
Rhodes, Charles M., Steubenville, Ohio. Wave-energy motor. No. 1,001,444; Aug. 22; Sp. p. 4816; Gaz. vol. 169; p. 868.
Rhodes, Edgar, Scholes, near Leeds, and W. Rhodes, Leeds, England. Pneumatic picking mechanism. No. 1,007,733; Nov. 7; Sp. p. 173; Gaz. vol. 172; p. 29.
Rhodes, Frank B., Johnstown, R. I. Pin. No. 1,004,592; Oct. 3; Sp. p. 92; Gaz. vol. 171; p. 17.
Rhodes, Harry A., assignor to The Universal Motor Company, Denver, Colo. Differential-speed mechanism. No. 981,689; Jan. 17; Sp. p. 3394; Gaz. vol. 162; p. 573.
Rhodes, Harry A., assignor to The Universal Motor Company, Denver, Colo. Heat-dissipating means for electrical apparatus. No. 981,690; Jan. 17; Sp. p. 3397; Gaz. vol. 162; p. 574.
Rhodes, Harry A., assignor to The Universal Motor Company, Denver, Colo. Electrical motor. No. 981,881; Jan. 17; Sp. p. 3790; Gaz. vol. 162; p. 641.
Rhodes, Harry A., assignor to The Universal Motor Company, Denver, Colo. Electric motor. No. 993,459; May 30; Sp. p. 5641; Gaz. vol. 166; p. 1033.
Rhodes, Harry A., assignor to The Universal Motor Company, Denver, Colo. Transmission-gearing. No. 994,537; June 6; Sp. p. 903; Gaz. vol. 167; p. 150.
Rhodes, Herbert M., Potosi, Miss. Harrow. No. 987,680; Mar. 21; Sp. p. 4053; Gaz. vol. 164; p. 717.
Rhodes, Jay B. (See Rhodes, Bert O., assignor.)
Rhodes, Jay B., Kalamazoo, Mich. Route-indicator. No. 1,005,474; Oct. 10; Sp. p. 1964; Gaz. vol. 171; p. 347.
Rhodes, Walter. (See Rhodes, Edgar and W.)
Ribau, Udo, Budapest, Austria-Hungary. Sliding and pivoting window. No. 1,002,757; Sept. 5; Sp. p. 1282; Gaz. vol. 170; p. 193.
Ribbon Metals Syndicate Limited. (See Strange, Edward H., assignor.)
Ribis, Georges P. (See Chanudet and Ribis.)
Riblet, George E., Erie, Pa. Cutting-tool. No. 1,003,066; Sept. 12; Sp. p. 1942; Gaz. vol. 170; p. 336.
Ricci, Angelo, Natick, R. I. Portable pneumatic shuttle-threading implement. No. 984,606; Feb. 21; Sp. p. 2950; Gaz. vol. 163; p. 524.
Rice, Alva C., Worcester, Mass. Drier for paper. No. 995,721; June 20; Sp. p. 3545; Gaz. vol. 167; p. 624.
Rice, Alvey J., Lawrenceburg, assignor of one-half to T. B. McGurk, McBrayer, Ky. Electrical alarm device. No. 993,460; May 30; Sp. p. 5644; Gaz. vol. 166; p. 1033.
Rice, Charles D., Hartford, Conn. Belt-gearing. No. 981,390; Jan. 10; Sp. p. 2771; Gaz. vol. 162; p. 451.
Rice, Charles D., Hartford, Conn. Belt-gearing. No. 984,708; Feb. 21; Sp. p. 3169; Gaz. vol. 163; p. 561.
Rice, Charles W. (See Dickert, Curtis L., assignor.)
Rice, Charles W. (See Dickert and Rice.)
Rice, Christopher B., Jr., T. Bryan, Piqua, Ohio, and C. F. Goodrich, Indianapolis, Ind., assignors of two-fifths to said Rice, one-fifth to said Bryan, and two-fifths to said Goodrich. Railway-switch-operating mechanism. No. 983,645; Feb. 7; Sp. p. 834; Gaz. vol. 163; p. 133.
Rice, Daniel L., Canton, Ohio. Rail and tie clamp. No. 992,520; May 16; Sp. p. 3635; Gaz. vol. 166; p. 652.
Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company. Turbine-bucket construction. No. 980,562; Jan. 3; Sp. p. 837; Gaz. vol. 162; p. 135.

Alphabetical list of patentees—Continued.

Rice, Edwin W., Jr., Schenectady, N. Y., assignor to General Electric Company. Turbine-bucket. No. 980,563; Jan. 3; Sp. p. 839; Gaz. vol. 162; p. 135.
Rice, Frank W., Springfield, Ohio, assignor to International Harvester Company. Manure-spreader. No. 990,903; May 2; Sp. p. 156; Gaz. vol. 166; p. 30.
Rice, Frank W., Springfield, Ohio, assignor to International Harvester Company. Manure-spreader. No. 995,905; June 20; Sp. p. 3961; Gaz. vol. 167; p. 687.
Rice, George H., Oleander, Cal. Hub-attaching device. No. 982,745; Jan. 24; Sp. p. 5634; Gaz. vol. 162; p. 966.
Rice, George H., Honolulu, Hawaii. Open-switch signal. No. 1,002,083; Aug. 29; Sp. p. 6157; Gaz. vol. 169; p. 1113.
Rice, Hamilton, Pawtucket, R. I. Self-oiling pulley. No. 1,003,512; Sept. 19; Sp. p. 2878; Gaz. vol. 170; p. 526.
Rice, Harold A., Toronto, Ontario, Canada. Hydrocarbon-generator. No. 1,001,077; Aug. 22; Sp. p. 4072; Gaz. vol. 169; p. 747.
Rice & Hutchins. (See Young, George T., assignor.)
Rice, James N. (See Ballou, William R., assignor.)
Rice, James W., Fort Smith, Ark. Automatic railway-switch. No. 986,026; Mar. 7; Sp. p. 585; Gaz. vol. 164; p. 94.
Rice, Joe A. (See Weaver, Fleming H., assignor.)
Rice, Leander, Kahlotus, Wash. Wrench. No. 1,006,679; Oct. 24; Sp. p. 4679; Gaz. vol. 171; p. 833.
Rice, Merrill B., assignor of one-half to G. Morgan, Los Angeles, Cal. Carbureter. No. 1,007,659; Oct. 31; Sp. p. 6827; Gaz. vol. 171; p. 1227.
Rice, Richard H., Swampscott, Mass., assignor to General Electric Company. Governing mechanism for turbines. No. 989,722; Apr. 18; Sp. p. 3059; Gaz. vol. 165; p. 539
Rice, Richard H., Lynn, Mass., assignor to General Electric Company. Turbine. No. 989,723; Apr. 18; Sp. p. 3062; Gaz. vol. 165; p 539.
Rice, Richard H., Lynn, and J. G. Callan, Nahant, Mass., assignors to General Electric Company. Governing mechanism for turbines. No. 1,013,061; Dec. 26; Sp. p. 5930; Gaz. vol. 173; p. 1038.
Rice, Richard H., Lynn, and J. G. Callan, Nahant, Mass., assignors to General Electric Company. Governor. No. 1,013,062; Dec. 26; Sp. p. 5933; Gaz. vol. 173; p. 1038.
Rice, Samuel J., Loma, N. D. Rail-joint. No. 1,009,575; Nov. 21; Sp. p. 4348; Gaz. vol. 172; p. 748.
Rice, Waldo G., Edison Park, Ill. Photographic tray. No. 991,023; May 2; Sp p. 407; Gaz. vol. 166; p. 70.
Rice, William H., Rochester, N. Y. Agricultural implement. No. 980,335; Jan. 3; Sp. p. 305; Gaz. vol. 162; p. 55.
Rice, Willis B., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Relay. No. 985,705; Feb. 28; Sp. p. 5348; Gaz. vol. 163; p. 937.
Rich, Charles A., assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Power-transmitting mechanism. No. 997,700; July 11; Sp. p. 2295; Gaz. vol. 168; p. 407.
Rich, Charles C., Mount Vernon, N. Y. Moistener for internal-combustion engines. No. 986,757; Mar. 14; Sp. p. 2123; Gaz. vol. 164; p. 370.
Rich, Charles C., assignor to The Hydro-Kinetic Transmission Company, Mount Vernon, N. Y. Clutch. No. 988,817; Apr. 4; Sp. p. 1125; Gaz. vol. 165; p. 179.
Rich, Charles C., assignor to The Hydro-Kinetic Transmission Company, Mount Vernon, N. Y. Hydraulic transmission mechanism. No. 991,646; May 9; Sp. p. 1759; Gaz. vol. 166; p. 322.
Rich, Charles C., assignor to The Hydro-Kinetic Transmission Company, Mount Vernon, N. Y. Clutch. (Reissue.) No. 13,260; June 20; Sp. p. 4236; Gaz. vol. 167; p. 736.
Rich, Edward B. (See Lindemann and Rich.)
Rich, Paul J., Chicago, Ill. Testing-plug for soil-pipes. No. 995,987; June 20; Sp. p. 4113; Gaz. vol. 167; p. 716.
Rich, Sion D., assignor of one-fourth to L. Crompton, Avoca, Tex. Railway-car coupling. No. 1,002,178; Aug. 29; Sp. p. 6329; Gaz. vol. 169; p. 1144.
Richard, Albert T., Church Point, La. Side cultivator. No. 985,449; Feb. 28; Sp. p. 4766; Gaz. vol. 163; p. 848.
Richard, Auguste L., Clichy, France. Fly-catcher. No. 989,724; Apr. 18; Sp. p. 3065; Gaz. vol. 165; p. 540.
Richard, Bernhard, assignor to The Aniline Color and Extract Works, formerly John R. Geigy, Basel, Switzerland. Mordant-dyeing azo dyes and making same. No. 991,750; May 9; Sp. p. 1978; Gaz. vol. 166; p. 355.
Richard, Bernhard, assignor to The Aniline Color and Extract Works, formerly John R. Geigy, Basel, Switzerland. Azo dyes and making same. No. 993,549; May 30; Sp. p. 5842; Gaz. vol. 166; p. 1065.
Richard H. Thomas. (See Thomas, Richard H., assignor.)
Richards, Arthur J. (See Hinds and Ferris, assignors.)
Richards, Arthur W., Yonkers, N. Y., assignor to Albenart Company, Canton, Mass. Work-bench. No. 981,113; Jan. 10; Sp. p. 2144; Gaz. vol. 162; p. 353.
Richards, Arthur W., Yonkers, N. Y., assignor to Albenart Company, Canton, Mass. Clamping device. No. 996,884; July 4; Sp. p. 589; Gaz. vol. 168; p. 97.
Richards, Charles W., Sloan, Iowa. Hub-clamp for vehicle-wheel supports. No. 984,026; Feb. 14; Sp. p. 1697; Gaz. vol. 163; p. 292.
Richards, Corydon, Harvard Junction, Ill. Awning attachment. No. 989,422; Apr. 11; Sp. p. 2394; Gaz. vol. 165; p. 404.
Richards, Edward, Tacoma, Wash. Flue-cleaner. No. 1,006,680; Oct. 24; Sp. p. 4680; Gaz. vol. 171; p. 833.
Richards, Evan, Spokane, Wash. Broom-holder. No. 994,790; June 13; Sp. p. 1511; Gaz. vol. 167; p. 278.
Richards, Francis H., *et al.* (See Harvey, George L., assignor.)
Richards, Francis H., Hartford, Conn. Stop device. No. 992,804; May 23; Sp. p. 4218; Gaz. vol. 166; p. 779.
Richards, Francis H., Hartford, Conn. Carving-machine. No. 1,005,310; Oct. 10; Sp. p. 1617; Gaz. vol. 171; p. 290.
Richards, Francis H., Hartford, Conn. Carving-machine. No. 1,008,436; Nov. 14; Sp. p. 1817; Gaz. vol. 172; p. 315.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, of one-half to American Typographic Corporation. Controlling device. No. 992,252; May 16; Sp. p. 3055; Gaz. vol. 166; p. 558.
Richards, Francis H., Hartford, Conn., assignor, by mesne assignments, of one-half to American Typographic Corporation. Driving mechanism. No. 997,209; July 4; Sp. p. 1286; Gaz. vol. 168; p. 209.
Richards, George C., Berkeley, Cal. Fume-condensing apparatus. No. 990,009; Apr. 18; Sp. p. 3685; Gaz. vol. 165; p. 638.
Richards, George C., Berkeley, Cal. Combined compound crank and rotary engine. No. 1,006,276; Oct. 17; Sp. p. 3767; Gaz. vol. 171; p. 662.
Richards, George L., Kingsway, London, England. Stamp or ticket vending apparatus. No. 1,009,179; Nov. 21; Sp. p. 3430; Gaz. vol. 172; p. 607.
Richards, Glendon A., assignor to Richards-Wilson Pipe Covering Co., Grand Rapids, Mich. Pipe-covering. No. 1,002,932; Sept. 12; Sp. p. 1692; Gaz. vol. 170; p. 292.
Richards, Harvey A., Muncie, Ind., and T. J. Conway, Pittsburg, Pa. Apparatus for forming hollow glassware. No. 996,365; June 27; Sp. p. 4994; Gaz. vol. 167; p. 880.
Richards, Isaiah, Au Sable Forks, N. Y. Banded barker. No. 1,005,654; Oct. 10; Sp. p. 2397; Gaz. vol. 171; p. 411.
Richards, James E., Dayton, Ohio. Union underwear. No. 1,000,947; Aug. 15; Sp. p. 3721; Gaz. vol. 169; p. 666.
Richards, John, and G. Bates, London, England. Transmission-gearing. No. 994,199; June 6; Sp. p. 206; Gaz. vol. 167; p. 35.
Richards, John A., Albion, Mich. Apparatus for bending printers' rules. No. 998,394; July 18; Sp. p. 3924; Gaz. vol. 168; p. 695.
Richards, John A., Albion, Mich. Rule-cutting machine. No. 1,006,277; Oct. 17; Sp. p. 3769; Gaz. vol. 171; p. 663.
Richards, John H., Tamworth, and B. Bellingham, Smethwick, near Birmingham, England. Valve mechanism for internal-combustion engines. No. 993,875; May 30; Sp. p. 6535; Gaz. vol. 166; p. 1178.
Richards, Robert H., assignor to American Saw Mill Machinery Co., Hackettstown, N. J. Shingle-sawing machine. No. 999,260; Aug. 1; Sp. p. 133; Gaz. vol. 169; p. 25.
Richards, Thomas, Renfrew, Ontario, Canada. Rail-fastening. No. 994,872; June 13; Sp. p. 1714; Gaz. vol. 167; p. 306.
Richards, Thomas, assignor of one-half to H. P. Owen, New Harmony, Ind. Rotary harrow. No. 993,197; May 23; Sp. p. 5073; Gaz. vol. 166; p. 915.
Richards, Walter J., assignor to National Brake & Electric Company, Milwaukee, Wis. Automatic pressure-governor. No. 983,933; Feb. 14; Sp. p. 1479; Gaz. vol. 163; p. 261.
Richards, Walter J., assignor to National Brake & Electric Company, Milwaukee, Wis. Lubricant-gland. No. 1,001,687; Aug. 29; Sp. p. 5315; Gaz. vol. 169; p. 981.
Richards-Wilcox Manufacturing Company. (See Prouty, Theodore C., assignor.)
Richards, William J., *et al.* (See Buckman, Henry H., Jr., assignor.)
Richards, William M., Leicester, England. Nasal inhaler. No. 1,009,180; Nov. 21; Sp. p. 3433; Gaz. vol. 172; p. 608.
Richards-Wilson Pipe Covering Co. (See Richards, Glendon A., assignor.)
Richardson, Austin E., Lynn, Mass., assignor to General Electric Company. Mercury-vapor lamp. No. 1,010,455; Dec. 5; Sp. p. 101; Gaz. vol. 173; p. 21.
Richardson, Charlie N., Boyd, Tex. Combination-tool. No. 1,012,442; Dec. 19; Sp. p. 4551; Gaz. vol. 173; p. 779.
Richardson, Clifford, New York, N. Y., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Bituminous paving-cement. No. 981,225; Jan. 10; Sp. p. 2430; Gaz. vol. 162; p. 394.
Richardson, Dwight S., New York, N. Y. Combined stove and garbage-destroyer. No. 990,290; Apr. 25; Sp. p. 4291; Gaz. vol. 165; p. 765.
Richardson, Earl H., assignor to Pacific Electric Heating Company, Ontario, Cal. Combination electric heater. No. 1,006,129; Oct. 17; Sp. p. 3424; Gaz. vol. 171; p. 608.

Alphabetical list of patentees—Continued.

Richardson, Ernest, assignor to Ingram-Richardson Manufacturing Company, Beaver Falls, Pa. Refrigerator-compartment. No. 992,253; May 16; Sp. p. 3058; Gaz. vol. 166; p. 558.
Richardson, Ernest, assignor to Ingram-Richardson Manufacturing Company, Beaver Falls, Pa. Refrigerator-lining. No. 997,210; July 4; Sp. p. 1291; Gaz. vol. 168; p. 210.
Richardson, Ernest, assignor of two-fifths to L. Ingram and one-fifth to M. N. Hurd, Beaver Falls, Pa. Composite structure embodying enameled plates. No. 994,337; June 6; Sp. p. 484; Gaz. vol. 167; p. 83.
Richardson, Francis M., Freeport, Ill. Chicken-coop. No. 990,291; Apr. 25; Sp. p. 4293; Gaz. vol. 165; p. 765.
Richardson, George A., East Barnet, assignor of one-half to J. Fairbanks, St. Johnsbury, Vt. Bull-staff. No. 984,157; Feb. 14; Sp. p. 1955; Gaz. vol. 163; p. 335.
Richardson, George W., Chicago, Ill. Slide-rule. No. 982,876; Jan. 31; Sp. p. 5938; Gaz. vol. 162; p. 1041.
Richardson, Henry. (See Holm, Anton, assignor.)
Richardson, Henry, New York, N. Y. Automatic weighing-machine. No. 1,006,879; Oct. 24; Sp. p. 5130; Gaz. vol. 171; p. 903.
Richardson, Henry E., New Orleans, La., assignor, by mesne assignments, to A. E. Denman, Finchley, England. Combined desk blotter-pad and calendar. No. 990,211; Apr. 18; Sp. p. 4095; Gaz. vol. 165; p. 704.
Richardson, James R., Pittsburg, Pa. Device for polishing curved surfaces. No. 989,291; Apr. 11; Sp. p. 2121; Gaz. vol. 165; p. 362.
Richardson, John B., and T. W. Meich, Somerville, N. J. Railway bond-wires. No. 981,309; Jan. 10; Sp. p. 2602; Gaz. vol. 162; p. 423.
Richardson, John F., Edith, Tex. Scale-supporting frame. No. 993,407; May 30; Sp. p. 5523; Gaz. vol. 166; p. 1016.
Richardson, John H., Saugus, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating on shoes. No. 1,001,078; Aug. 22; Sp. p. 4073; Gaz. vol. 169; p. 747.
Richardson, John J., Chelsea, Mass. Shoe-machine. No. 988,211; Mar. 28; Sp. p. 5211; Gaz. vol. 164; p. 924.
Richardson, John W., Eagle Corners, Wis. Railway cross-tie. No. 1,001,165; Aug. 22; Sp. p. 4232; Gaz. vol. 169; p. 774.
Richardson, Joseph, and J. F. Neef, Philadelphia, Pa. Dyeing-machine. No. 989,644; Apr. 18; Sp. p. 2906; Gaz. vol. 165; p. 513.
Richardson Manufacturing Company. (See Aiguier, Edward B., assignor.)
Richardson Manufacturing Company. (See Brown, Theophilus, assignor.)
Richardson-Phenix Company, The. (See Sherman and West, assignors.)
Richardson, Richard G., Piedmont, W. Va. Machine for cutting and stamping bank-notes. No. 992,063; May 9; Sp. p. 2596; Gaz. vol. 166; p. 462.
Richardson, Robert H., Sparta, N. C., assignor of one-half to B. C. Waddell, Scottville, N. C. Horse-detaching device. No. 997,007; July 4; Sp. p. 887; Gaz. vol. 168; p. 141.
Richardson, Solon O., Jr., Toledo, Ohio. Manufacture of glass. No. 1,004,080; Sept. 26; Sp. p. 4202; Gaz. vol. 170; p. 750.
Richardson, Theodore. (See Blair, Robert H., Sr., assignor.)
Richardson, Wilbur J., Lake City, Minn. Grass-collector for lawn-mowers. No. 997,327; July 11; Sp. p. 1544; Gaz. vol. 168; p. 280.
Richardson, Willard C., Lynn, Mass. Shoe-form. No. 1,002,316; Sept. 5; Sp. p. 299; Gaz. vol. 170; p. 42.
Richardson, William, Los Angeles, Cal. Gage. No. 990,502; Apr. 25; Sp. p. 4824; Gaz. vol. 165; p. 841.
Richardson, William H., Jersey City, N. J. Web-operating mechanism. No. 1,001,445; Aug. 22; Sp. p. 4818; Gaz. vol. 169; p. 868.
Richardson, William J., *et al.* (See Menges, Albert C., assignor.)
Richardson, William J., Dayton, Ohio. Self-lubricating hub for trolley-wheels. No. 1,011,491; Dec. 12; Sp. p. 2456; Gaz. vol. 173; p. 418.
Richardson, William K., Leavenworth, Kans. Regulator for pumping-engines. No. 1,009,343; Nov. 21; Sp. p. 3830; Gaz. vol. 172; p. 667.
Richardson, William S., Boston, Mass. Apparatus for washing photographic prints. No. 1,006,278; Oct. 17; Sp. p. 3771; Gaz. vol. 171; p. 663.
Richardson, William Y., and E. Tigerstrand, Salem, Oreg. Fruit-gatherer. No. 999,261; Aug. 1; Sp. p. 135; Gaz. vol. 169; p. 25.
Richert, Paul, New York, N. Y. Taximeter or fare-indicator for hired vehicles. No. 986,758; Mar. 14; Sp. p. 2125; Gaz. vol. 164; p. 371.
Richey, Browne & Donald. (See Browne, Richard B., assignor.)
Richey, Browne & Donald. (See Nygren, Oscar, assignor.)
Richey, George S., Campbell, Mo. Envelop. No. 996,141; June 27; Sp. p. 4440; Gaz. vol. 167; p. 804.
Richheimer, Alexander C., and P. W. Koch, Chicago, Ill. Automatic street-indicator. No. 980,336; Jan. 3; Sp. p. 308; Gaz. vol. 162; p. 55.
Richie, Grant, Brooklyn, N. Y., assignor to Fulton Chemical Company. Coffee-purifier. No. 982,877; Jan. 31; Sp. p. 5941; Gaz. vol. 162; p. 1041.
Richir, Armand. (See Deprey and Richir.)
Richley, Joseph A., Minneapolis, Minn. Grain-car door. No. 993,876; May 30; Sp. p. 6537; Gaz. vol. 166; p. 1178.
Richman, Samuel J. (See Sebba, Nathan, assignor.)
Richmond, Arthur J., Boston, Mass., assignor to General Fire Extinguisher Co., New York, N. Y. Valve mechanism. No. 993,621; May 30; Sp. p. 5995; Gaz. vol. 166; p. 1091.
Richmond Cedar Works. (See Rempe, Jacob E., assignor.)
Richmond Cedar Works. (See Rollman, Michael A., assignor.)
Richmond Forgings Corporation, The. (See Redford, Oscar P., assignor.)
Richmond, George E., Houston, Tex. Constructing concrete buildings. No. 984,491; Feb. 14; Sp. p. 2661; Gaz. vol. 163; p. 448.
Richmond, George E., Houston, Tex. Feed-mixer. No. 994,032; May 30; Sp. p. 6850; Gaz. vol. 166; p. 1230.
Richmond, George E., Houston, Tex. Wind-stacker. No. 994,338; June 6; Sp. p. 486; Gaz. vol. 167; p. 83.
Richmond, George E., assignor of one-half to Peoples Oil & Cotton Company, Wharton, Tex. Separator. No. 996,526; June 27; Sp. p. 5331; Gaz. vol. 167; p. 933.
Richmond, Lewis B., H. S. Holmes, and L. R. Peck, St. Johns, Mich. Machine for making tiles. No. 998,637; July 25; Sp. p. 4435; Gaz. vol. 168; p. 811.
Richmond Scale Co., The. (See Perkins, John N., assignor.)
Richmond, Wesley H., Marquette, Mich. Rotary engine. No. 988,949; Apr. 4; Sp. p. 1376; Gaz. vol. 165; p. 221.
Richmond, William, London, Ontario, Canada. Threading-die. No. 992,903; May 23; Sp. p. 4447; Gaz. vol. 166; p. 815.
Richter, Albert, *et al.* (See Hayward, Eugene, assignor.)
Richter, Felix, Frankfort-on-the-Main, Germany. Manufacturing coal of high activity. No. 1,001,222; Aug. 22; Sp. p. 4355; Gaz. vol. 169; p. 793.
Richter, Friedrich A., Rudolstadt, Germany. Roof for toy buildings. No. 997,008; July 4; Sp. p. 889; Gaz. vol. 168; p. 141.
Richter, Friedrich A., Rudolstadt, Germany. Toy bridge. No. 999,466; Aug. 1; Sp. p. 533; Gaz. vol. 169; p. 94.
Richter, Hermann, Denver, Colo. Embroidery attachment for sewing-machines. No. 994,033; May 30; Sp. p. 6852; Gaz. vol. 166; p. 1230.
Richter, Jacob J., Wahpeton, N. D. Automobile-shed. No. 980,837; Jan. 3; Sp. p. 1409; Gaz. vol. 162; p. 226.
Richter, Otto, and L. Frederick, Salem, Ohio. Wrapping-machine. No. 1,008,197; Nov. 7; Sp. p. 1173; Gaz. vol. 172; p. 193.
Richter, William S. (See Rodgers and Richter.)
Rickards, James N., Ridgely, Md. Sand-band for vehicle-wheels. No. 982,994; Jan. 31; Sp. p. 6192; Gaz. vol. 162; p. 1079.
Rickards, James N., Ridgely, Md. Axle-lubricator. No. 984,854; Feb. 21; Sp. p. 3460; Gaz. vol. 163; p. 611.
Rickards, James N., Ridgely, Md. Hub-attaching device. No. 1,002,452; Sept. 5; Sp. p. 616; Gaz. vol. 170; p. 89.
Ricker, Etta L., *et al.* (See Dunlap, Joseph B., assignor.)
Ricker, Geo., *et al.* (See Dunlap, Joseph B., assignor.)
Ricker, Jack J., *et al.* (See Chamberlain, Wheaton R., assignor.)
Ricker, James H., assignor, by mesne assignments, of one-half to G. N. Aude, St. Louis, Mo. Lasting-tack puller. No. 1,004,081; Sept. 26; Sp. p. 4205; Gaz. vol. 170; p. 751.
Ricker Manufacturing Company. (See Ashton, Frank R., assignor.)
Ricker, William H., Cambridge, Mass. Construction of boilers. No. 984,300; Feb. 14; Sp. p. 2280; Gaz. vol. 163; p. 386.
Rickertt, John E., assignor of one-third to A. Pearson, Omaha, Nebr. Lever-actuated locking valve. No. 1,005,311; Oct. 10; Sp. p. 1623; Gaz. vol. 171; p. 290.
Ricketts, Charles D., Vernon, Kans. Manure-loader. No. 983,401; Feb. 7; Sp. p. 307; Gaz. vol. 163; p. 52.
Rickey, William E. (See Smith and Rickey.)
Ricks, George A., La Fayette, Ind. Electric ironing device. No. 994,605; June 6; Sp. p. 1044; Gaz. vol. 167; p. 174.
Ridd, Ambrose, Newport, Ky. Polishing metal surfaces. No. 988,664; Apr. 4; Sp. p. 804; Gaz. vol. 165; p. 129.
Ridd, Ambrose, Waipuku, Taranaki, New Zealand. Teat-cup for milking-machines. No. 1,000,948; Aug. 15; Sp. p. 3722; Gaz. vol. 169; p. 666.
Riddell, George H. (See Lunken and Riddell.)
Riddell, George H., and W. J. Rowe, Chicago, Ill., assignors to The Lunkenheimer Company, Cincinnati, Ohio. Metallic-window-sash construction. No. 1,012,015; Dec. 19; Sp. p. 3644; Gaz. vol. 173; p. 636.
Riddell, John, Schenectady, N. Y., assignor to General Electric Company. Universal bucket-cutting machine. No. 1,006,279; Oct. 17; Sp. p. 3773; Gaz. vol. 171; p. 663.
Riddell, John, Schenectady, N. Y., assignor to General Electric Company. Bucket-cutting machine. No. 1,006,680; Oct. 17; Sp. p. 3784; Gaz. vol. 171; p. 664.

Alphabetical list of patentees—Continued.

Riddell, John, Schenectady, N. Y., assignor to General Electric Company. Machine for turning crank-pins. No. 1,011,849; Dec. 12; Sp. p. 3261; Gaz. vol. 173; p. 541.
Ridder, Herman. (See Bertram, William E., assignor.)
Riddle, Charles B., Birmingham, Ala. Convertible furniture. No. 988,212; Mar. 28; Sp. p. 5213; Gaz. vol. 164; p. 925.
Riden, Henry B. (See Moyer, Robley D., assignor.)
Ridenour, Lertin W., Gratis, Ohio. Insulator-line-attaching device. No. 992,595; May 16; Sp. p. 3817; Gaz. vol. 166; p. 679.
Rideout, William L. (See Meter and Rideout.)
Rider, Phineas L. (See Barnum, Dana D., assignor.)
Ridgely, Charles T., Springfield, Ohio. Folding table. No. 981,114; Jan. 10; Sp. p. 2146; Gaz. vol. 162; p. 354.
Ridgway Dynamo & Engine Company. (See Hall, Thomas, assignor.)
Ridgway, John T., Leesburg, Ohio. Attachment for mail-boxes. No. 1,005,312; Oct. 10; Sp. p. 1625; Gaz. vol. 171; p. 291.
Ridinger, Daniel W., Defiance, assignor of one-half to G. W. Bussert, Delphos, Ohio. Air-pump governor. No. 991,647; May 9; Sp. p. 1763; Gaz. vol. 166; p. 323.
Ridings, William R., Stretford, England, assignor to Westinghouse Electric & Manufacturing Company. Electric-arc lamp. No. 989,292; Apr. 11; Sp. p. 2123; Gaz. vol. 165; p. 362.
Ridolfi, Ridolfo, Florence, Italy. Armor-plate. No. 1,008,198; Nov. 7; Sp. p. 1178; Gaz. vol. 172; p. 193.
Ridpath, Thomas W., Kansas City, Mo. Merry-go-round. No. 1,002,933; Sept. 12; Sp. p. 1693; Gaz. vol. 170; p. 293.
Ridsdale, Herbert W., London, and S. S. Cook, Wallsend, assignors to C. A. Parsons, Newcastle-upon-Tyne, England. Combined ahead and astern turbine. No. 1,009,789; Nov. 28; Sp. p. 4777; Gaz. vol. 172; p. 865.
Riebe, Paul C. (See Hoge, Riebe, and Pitt.)
Riebel, Emil, Pforzheim, Germany. Machine for fixing hinges provided with fastening-points. No. 1,000,755; Aug. 15; Sp. p. 3321; Gaz. vol. 169; p. 599.
Riebel, George T., assignor of one-half to H. E. Groffman, New Orleans, La. Tag. No. 986,759; Mar. 14; Sp. p. 2133; Gaz. vol. 164; p. 371.
Rieck, Edward E. (See Bayer, Henry E., assignor.)
Rieck, Herman, Greenwood township, Vernon county, Wis. Woodworking-machine. No. 991,171; May 2; Sp. p. 733; Gaz. vol. 166; p. 124.
Rieck, Hubert, Irvington, N. J. Producing a medicinal composition. No. 992,254; May 16; Sp. p. 3059; Gaz. vol. 166; p. 558.
Riecke, Hedwig, *geb.* Schütze, Elmen-Salze, Germany, assignor to S. Schütze, Formersleben, Germany. Pedal for sewing-machines. No. 994,708; June 6; Sp. p. 1287; Gaz. vol. 167; p. 210.
Riecke, Paul, Dessau, assignor to Ofenbau-Gesellschaft mit beschränkter Haftung, Munich, Germany. Latch mechanism. No. 980,337; Jan. 3; Sp. p. 312; Gaz. vol. 162; p. 56.
Rieder, F. S., *et al.* (See Kenney, Frank, assignor.)
Riedl, Ferdinand, Vienna, Austria-Hungary, assignor of three-fourths to B. Sperber and one-fourth to D. Zeimann, Berlin, Germany. Table or like stand for advertising purposes and for displaying and storing articles and goods. No. 997,701; July 11; Sp. p. 2300; Gaz. vol. 168; p. 407.
Riegels, Olaf L., Christiania, Norway. Explosion-engine operated by liquid fuel. No. 1,008,199; Nov. 7; Sp. p. 1175; Gaz. vol. 172; p. 194.
Riegler, Stefan R., Budapest, Austria-Hungary. Manufacture of a resistive paper mass for industrial purposes. No. 1,001,446; Aug. 22; Sp. p. 4820; Gaz. vol. 169; p. 869.
Riehl, George H., and W. Honegger, Cincinnati, Ohio. Typographical gage. No. 989,512; Apr. 11; Sp. p. 2570; Gaz. vol. 165; p. 435.
Riehl, Robert, St. Louis, Mo. Wheel. No. 1,003,123; Sept. 12; Sp. p. 2072; Gaz. vol. 170; p. 357.
Riemenschneider, Adolph, Sarco Creek, Tex. Condenser for cotton-gins. No. 1,009,576; Nov. 21; Sp. p. 4350; Gaz. vol. 172; p. 748.
Riemer, Frank, assignor of forty-eight one-hundredths to J. Hartler, Denver, Colo. Chimney-cowl and ventilator. No. 1,001,166; Aug. 22; Sp. p. 4233; Gaz. vol. 169; p. 774.
Riendeau, Octavien. (See Vessot and Riendeau.)
Rienhardt, William A. (See Thomsen and Rienhardt.)
Ries, Elias E., assignor to The Simplex Letter Opener Company, New York, N. Y. Device for opening envelops. No. 1,005,879; Oct. 17; Sp. p. 2868; Gaz. vol. 171; p. 521.
Ries, Hans, Munich, Germany. Car for quenching coke. No. 1,006,281; Oct. 17; Sp. p. 3792; Gaz. vol. 171; p. 664.
Riesch, August, Cincinnati, Ohio. Marbleizing artificial stone. No. 1,012,016; Dec. 19; Sp. p. 3645; Gaz. vol. 173; p. 636.
Riesenberg, Frank W., Auburn, Nebr. Wagon-skein nut-lock. No. 1,009,858; Nov. 28; Sp. p. 4919; Gaz. vol. 172; p. 889.
Rieske, Otto G., Minneapolis, Minn., assignor to The Monitor Drill Company. Telescopic spout for grain-drills. No. 1,012,278; Dec. 19; Sp. p. 4231; Gaz. vol. 173; p. 726.
Riess, Paul, and D. Lemley, New Orleans, La. Range. No. 993,715; May 30; Sp. p. 6216; Gaz. vol. 166; p. 1124.
Riester, André, Paris, France. Agricultural implement. No. 987,171; Mar. 21; Sp. p. 2980; Gaz. vol. 164; p. 541.
Rieth, Andrew J. (See Short and Rieth.)
Riethof, Franz, Teplitz-Thurn, assignor to Blumberg & Rindskopf, Zuckmantel, near Teplitz, Austria-Hungary. Producing aldehyde sulfoxylates. No. 1,006,793; Oct. 24; Sp. p. 4926; Gaz. vol. 171; p. 872.
Rietz, Erich. (See Hiemenz and Rietz.)
Rietzel, Adolph F., assignor, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Automatic electric welding-machine. No. 985,838; Mar. 7; Sp. p. 164; Gaz. vol. 164; p. 28.
Rietzel, Adolph F., Charlestown, R. I., assignor, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Contact for electric welding-machines. No. 1,002,758; Sept. 5; Sp. p. 1284; Gaz. vol. 170; p. 193.
Rietzel, Adolph F., assignor, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Forming joints in metal. No. 1,005,880; Oct. 17; Sp. p. 2871; Gaz. vol. 171; p. 522.
Rietzel, Adolph F., Charlestown, R. I., assignor to W. H. Rowe, Pittsburg, Pa. Reel. No. 996,885; July 4; Sp. p. 592; Gaz. vol. 168; p. 97.
Rietzel, Adolph F., Charlestown, R. I., assignor to Universal Electric Welding Company, New York, N. Y. Electric welding-machine. No. 1,001,888; Aug. 29; Sp. p. 5762; Gaz. vol. 169; p. 1050.
Rifflard, George, New York, N. Y. Frame or body for aeroplanes and other structures. No. 1,009,996; Nov. 28; Sp. p. 5196; Gaz. vol. 172; p. 933.
Riga, Federico, Newark, N. J. Stringed musical instrument. No. 1,004,905; Oct. 3; Sp. p. 790; Gaz. vol. 171; p. 126.
Rigby, Clark F., Butler, Pa. Oil-saver. No. 983,314; Feb. 7; Sp. p. 121; Gaz. vol. 163; p. 22.
Rigby, Lee M. (See Burk and Rigby.)
Rigby, Samuel S., New Castle, Pa. Self-lubricating wheel. No. 998,395; July 18; Sp. p. 3926; Gaz. vol. 168; p. 695.
Rigby, Thomas. (See Crossley and Rigby.)
Rigg, Gilbert, Palmerton, Pa. Treatment of sal-ammoniac skimmings. No. 1,002,317; Sept. 5; Sp. p. 301; Gaz. vol. 170; p. 42.
Riggs, George P., St. Marys, W. Va. Spudding device for well-boring machines. No. 1,006,794; Oct. 24; Sp. p. 4927; Gaz. vol. 171; p. 872.
Riggs, Leon, St. Joseph, Mo. Tobacco-pipe stem. No. 989,293; Apr. 11; Sp. p. 2125; Gaz. vol. 165; p. 363.
Rightmire, William F., Topeka, Kans., assignor of one-half to N. T. Foster, Romona, Okla. Lifting-jack. No. 986,408; Mar. 7; Sp. p. 1370; Gaz. vol. 164; p. 221.
Rigney, Joseph W., Mesilla Park, N. Mex. Gopher-trap. No. 989,423; Apr. 11; Sp. p. 2397; Gaz. vol. 165; p. 405.
Rigney, William J., New York, assignor to McLoughlin Brothers, Brooklyn, N. Y. Game. No. 990,292; Apr. 25; Sp. p. 4294; Gaz. vol. 165; p. 766.
Riikonen, John, Chicago, Ill. Straight-edge. No. 1,007,801; Nov. 7; Sp. p. 346; Gaz. vol. 172; p. 55.
Riker, George W., Russell, Iowa. Collapsible molding device for culverts, &c. No. 994,200; June 6; Sp. p. 207; Gaz. vol. 167; p. 36.
Riley, Frank B. (See Thomas and Riley.)
Riley, John, Donora, Pa. Fan. No. 997,415; July 11; Sp. p. 1701; Gaz. vol. 168; p. 309.
Riley, John M. (See Stedman, Charles H., assignor.)
Riley Manufacturing Company, The. (See Riley, Solomon H., assingnor.)
Riley, Nathaniel I., Spokane, Wash. Spring-seat. No. 1,004,082; Sept. 26; Sp. p. 4208; Gaz. vol. 170; p. 751.
Riley, Neale P., *et al.* (See Marfield, Paul B., assignor.)
Riley, Peter, assignor to Beacon Cutlery Company, Boston, Mass. Sharpener for scissors. No. 990,592; Apr. 25; Sp. p. 5001; Gaz. vol. 165; p. 871.
Riley, Robert. (See Rinehart, John, assignor.)
Riley, Robert, Burnley, England. Ring spinning, doubling, and twisting machine. No. 1,001,889; Aug. 29; Sp. p. 5764; Gaz. vol. 169; p. 1051.
Riley, Samuel L., assignor of one-third to N. Boozier and one-eighth to E. M. Griggs, Palestine, Tex. Metal tie. No. 990,904; May 2; Sp. p. 160; Gaz. vol. 166; p. 30.
Riley, Solomon H., Valley Center, assignor to The Riley Manufacturing Company, Wichita, Kans. Wire splicer and tightener. No. 1,011,850; Dec. 12; Sp. p. 3264; Gaz. vol. 173; p. 542.
Riley, Thomas A., Central Falls, R. I. Machine for automatically pasting labels, wrappers, &c. No. 1,001,304; Aug. 22; Sp. p. 4526; Gaz. vol. 169; p. 821.
Riley, Victor, Hollybank, Coventry, England. Detachable wheel. No. 1,010,803; Dec. 5; Sp. p. 897; Gaz. vol. 173; p. 141.
Riley, William E., Louisville, Ky. Amusement device or novelty. No. 1,001,447; Aug. 22; Sp. p. 4821; Gaz. vol. 169; p. 869.

Alphabetical list of patentees—Continued.

Riley, William J., Mere Green, Sutton Coldfield, near Birmingham, England. Mechanical player for musical instruments. No. 1,001,448; Aug. 22; Sp. p. 4823; Gaz. vol. 169; p. 869.
Rimailho, Emile, Neuilly-sur-Seine, assignor to Société Anonyme des Suspensions et Roues Flexibles, Paris, France. Shock-absorbing device. No. 990,293; Apr. 25; Sp. p. 4296; Gaz. vol. 165; p. 766.
Rimmer, Edward J., Hightown, England. Climbing and scaling device. No. 998,396; July 18; Sp. p. 3928; Gaz. vol. 168; p. 696.
Rinaldi, Joseph, New York, N. Y. Runaway-horse-stopping device. No. 987,600; Mar. 21; Sp. p. 3865; Gaz. vol. 164; p. 689.
Rindge, William A., Grand Rapids, Mich. Sign-holding device. No. 1,002,759; Sept. 5; Sp. p. 1287; Gaz. vol. 170; p. 193.
Rinehart, David H., Lushton, Nebr. Hay-rack brace and stay. No. 991,024; May 2; Sp. p. 409; Gaz. vol. 166; p. 70.
Rinehart, John, assignor of one-half to R. Riley, Vanatta, Ohio. Anchor for wire fences. No. 997,852; July 11; Sp. p. 2678; Gaz. vol. 168; p. 460.
Rinehart, John C., Washington, D. C., assignor to The Rinehart Resilient Wheel Company, Incorporated, Alexandria, Va. Spring-wheel. No. 1,010,688; Dec. 5; Sp. p. 628; Gaz. vol. 173; p. 101.
Rinehart Resilient Wheel Company, The. (See Rinehart, John C., assignor.)
Riner, Susie, Stuart, Iowa. Sewing-machine attachment. No. 987,601; Mar. 21; Sp. p. 3866; Gaz. vol. 164; p. 689.
Ring, Andrew, Dubuque, Iowa. Apparatus for molding cement blocks. No. 985,063; Feb. 21; Sp. p. 3862; Gaz. vol. 163; p. 682.
Ring, Wiley E., *et al.* (See Currin, John P., assignor.)
Ringbom, Ossian A., assignor to J. von Qvanten, Helsingfors, Russia. Apparatus for melting snow and the like. No 982,531; Jan. 24; Sp. p. 5205; Gaz. vol. 162; p. 897.
Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,005,881; Oct. 17; Sp. p. 2873; Gaz. vol. 171; p. 522.
Ringer, John H., assignor of one-third to E. J. Welty, Canton, and A. J. Heiman, Barberton, Ohio. Credit-account file. No. 997,328; July 11; Sp. p. 1545; Gaz. vol. 168; p. 281.
Ringland, Albert, assignor to Standard Roller Bearing Company, Philadelphia, Pa. Machine for grinding and polishing metallic balls. No. 981,310; Jan. 10; Sp. p. 2603; Gaz. vol. 162; p. 423.
Ringland, Albert, and F. B. Wood, assignors to Standard Roller Bearing Company, Philadelphia, Pa. Automatic feeding and measuring device. No. 990,593; Apr. 25; Sp. p. 5002; Gaz. vol. 165; p. 872.
Ringler, George A., Lancaster, Nebr. Toy. No. 1,012,279; Dec. 19; Sp. p. 4234; Gaz. vol. 173; p. 726.
Ringler, Peter J., Wichita, Kans. Oil-burning apparatus. No. 1,012,160; Dec. 19; Sp. p. 3972; Gaz. vol. 173; p. 686.
Ringrose, Charles E., Alma Center, Wis. Display and serving apparatus. No. 1,009,181; Nov. 21; Sp. p. 3436; Gaz. vol. 172; p. 608.
Rink, George W., Jersey City, N. J. Rail-stop. No. 998,638; July 25; Sp. p. 4437; Gaz. vol. 168; p. 812.
Rinman, Erik L., Gottenborg, Sweden. Treating waste liquors from soda-pulp mills. No. 1,005,882; Oct. 17; Sp. p. 2878; Gaz. vol. 171; p. 522.
Rinner, Elijah C., Coshocton, Ohio. Cutter. No. 996,795; July 4; Sp. p. 389; Gaz. vol. 168; p. 66.
Rinner, Susan. (See Dunfee, Jesse, assignor.)
Rinsche, Frank C., assignor to Universal Adding Machine Company, St. Louis, Mo. Calculating-machine. No. 995,569; June 20; Sp. p. 3206; Gaz. vol. 167; p. 569.
Rinsche, Frank C., assignor to Universal Adding Machine Company, St. Louis, Mo. Adding-machine. No. 1,001,688; Aug. 29; Sp. p. 5316; Gaz. vol. 169; p. 982.
Riordan, Patrick D., New York, N. Y. Snow-destroyer. No. 980,564; Jan. 3; Sp. p. 841; Gaz. vol. 162; p. 136.
Rioth, John, Jr., Wilsey, Kans. Carrier. No. 999,185; July 25; Sp. p. 5625; Gaz. vol. 168; p. 1000.
Riotte, Carl C., deceased; M. L. Riotte, Jersey City, N. J., administratrix. Vaporizer. No. 1,006,130; Oct. 17; Sp. p. 3426; Gaz. vol. 171; p. 609.
Riotte, Marie L., administratrix. (See Riotte, Carl C.)
Riout, René L., Paris, France. Flying-machine with flapping wings. No. 1,009,692; Nov. 21; Sp. p. 4555; Gaz. vol. 172; p. 785.
Ripczinske, Joseph, Wausau, Wis. Pneumatic cow-milker. No. 1,008,368; Nov. 14; Sp. p. 1633; Gaz. vol. 172; p. 293.
Ripczinske, Joseph, Wausau, Wis. Pneumatic cow-milker apparatus. No. 1,008,369; Nov. 14; Sp. p. 1637; Gaz. vol. 172; p. 293.
Ripley, Jay F. (See Ward, Ernest N., assignor.)
Ripley, Sears M., *et al.* (See Pile, Henry, assignor.)
Rippingille, Frank, Sutton Coldfield, and H. T. Martin, Birmingham, England. Nut-lock. No. 1,000,196; Aug. 8; Sp. p. 2089; Gaz. vol. 169; p. 372.
Ripple, John. (See Armentrout, Melvin, assignor.)

Risberg, Johannes V. M., and G. W. Johansson, assignors to Aktiebolaget Baltic, Södertelje, Sweden. Centrifugal liquid-separator. No. 1,003,206; Sept. 12; Sp. p. 2256; Gaz. vol. 170; p. 387.
Risbridger, Milton W. (See Risbridger, William C. and M. W.)
Risbridger, William C. and M. W., assignors to W. Trostler and S. I. Rose, Cleveland, Ohio. Vulcanizing device for rubber tires. No. 997,853; July 11; Sp. p. 2679; Gaz. vol. 168; p. 460.
Risch, Isidor T. von, Vienna, Austria-Hungary. Fuse for ordnance-shells. No. 984,607; Feb. 21; Sp. p. 2951; Gaz. vol. 163; p. 524.
Risdon Iron and Locomotive Works. (See O'Leary, Edward J., assignor.)
Rishel, John K., Williamsport, Pa. Extension-table. No. 985,839; Mar. 7; Sp. p. 174; Gaz. vol. 164; p. 28.
Risley, Carolile, Clarendon, Tex. Crude-oil burner. No. 980,838; Jan. 3; Sp. p. 1410; Gaz. vol. 162; p. 226.
Risner, Rudolph, Dunsmore, S. D. Leveling attachment for threshers and other vehicles. No. 980,439; Jan. 3; Sp. p. 545; Gaz. vol. 162; p. 92.
Rispel, Alexander, Chicago, Ill. Bacon-hook. No. 1,006,007; Oct. 17; Sp. p. 3149; Gaz. vol. 171; p. 566.
Rissel, Auguste K. W. (See Hennah and Rissel.)
Rissmann, Paul, Saginaw, Mich. Hat-pin. No. 1,012,100; Dec. 19; Sp. p. 3844; Gaz. vol. 173; p. 665.
Rist, Joseph, assignor of one-half to L. Gandolfo, St. Louis, and one-half to J. T. Baker, Mexico, Mo. Steamboat. No. 1,011,372; Dec. 12; Sp. p. 2196; Gaz. vol. 173; p. 374.
Ristau, William, Geneseo, Ill. Shield. No. 999,592; Aug. 1; Sp. p. 786; Gaz. vol. 169; p. 136.
Ritchel, Charles F., Bridgeport, Conn., assignor to G. E. Greenbaum, New York, N. Y. Sliding-door lock. No. 991,890; May 9; Sp. p. 2264; Gaz. vol. 166; p. 404.
Ritschke, Friedrich A., Geesthacht-on-the-Elbe, Germany, assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Manufacture of smokeless gunpowder. No. 1,009,577; Nov. 21; Sp. p. 4351; Gaz. vol. 172; p. 749.
Ritten, Louis N., Mason City, Iowa. Combined funnel and measure. No. 987,826; Mar. 28; Sp. p. 4366; Gaz. vol. 164; p. 795.
Rittenhouse, Charles C., Los Angeles, Cal. Automatic locking-crank. No. 996,142; June 27; Sp. p. 4441; Gaz. vol. 167; p. 804.
Rittenhouse, Irvin, assignor of one-half to H. F. Clark, Washington, D. C. Combined paper-fastener and label-holder. No. 992,255; May 16; Sp. p. 3061; Gaz. vol. 166; p. 559.
Ritter, Carl E., Petaluma, Cal. Airship. No. 1,006,282; Oct. 17; Sp. p. 3794; Gaz. vol. 171; p. 665.
Ritter, Franz, Munich, Germany. Device for cleaning knives, forks, &c. No. 995,570; June 20; Sp. p. 3221; Gaz. vol. 167; p. 570.
Ritter, Frederic W., Jr. (See Hasler, Benjamin G., assignor.)
Ritter, Georg, Stuttgart, Germany. Polystation line-circuit. No. 1,009,182; Nov. 21; Sp. p. 3438; Gaz. vol. 172; p. 608.
Ritter, Gilbert P. (See Heggem and Ritter.)
Ritter, Henry, Chicago, Ill. Making sash-bars and die for forming same. No. 1,004,083; Sept. 26; Sp. p. 4209; Gaz. vol. 170; p. 751.
Ritter, Herbert G. (See Leinen and Ritter.)
Ritter, Johann J., Basel, Switzerland. Lamp-shade. No. 993,877; May 30; Sp. p. 6540; Gaz. vol. 166; p. 1179.
Rittman, Christian A., Sandusky, Ohio. Skirt-marker. No. 1,009,693; Nov. 21; Sp. p. 4556; Gaz. vol. 172; p. 785.
Ritz, Oscar, Newark, N. J. Resilient bearing. No. 986,862; Mar. 14; Sp. p. 2348; Gaz. vol. 164; p. 407.
River & Rail Transportation Company. (See Kirchner, Henry W., assignor.)
Rivers, Julian H., Niotaze, Kans., assignor to Kaessmann-Rivers Development Company, St. Louis, Mo. Turbine. No. 981,311; Jan. 10; Sp. p. 2605; Gaz. vol. 162; p. 424.
Rivers, Julian H., assignor to Kaesmann-Rivers Developement Company, St. Louis, Mo. Laundry-drier. No. 1,011,373; Dec. 12; Sp. p. 2198; Gaz. vol. 173; p. 374.
Rivers, William E., Old Bridge, N. J., assignor to The Old Bridge Enamelled Brick & Tile Company. Tile. No. 998,203; July 18; Sp. p. 3463; Gaz. vol. 168; p. 624.
Rix, Edward A., Oakland, Cal. Air-compressor. No. 1,001,305; Aug. 22; Sp. p. 4531; Gaz. vol. 169; p. 821.
Rix, Edward A., Piedmont, Cal. Lubricating system. No. 1,001,306; Aug. 22; Sp. p. 4534; Gaz. vol. 169; p. 822.
Rix, Edward A., San Francisco, Cal. Air-compressor. No. 1,002,760; Sept. 5; Sp. p. 1288; Gaz. vol. 170; p. 194.
Rix, George K., Chicago, Ill., assignor to Barbee Wire & Iron Works, La Fayette, Ind. Wire frame. No. 990,166; Apr. 18; Sp. p. 3997; Gaz. vol. 165; p. 690.
Rix, Thos. G., *et al.* (See Hachmann, Frederick, assignor.)
Rizzuto, Louis A., Kelayres, Pa. Tie-pin. No. 992,064; May 9; Sp. p. 2600; Gaz. vol. 166; p. 462.
Roach, Adolphus E., Leamington, Ontario, Canada. Beam of flanged iron. No. 999,262; Aug. 1; Sp. p. 136; Gaz. vol. 169; p. 25.

Alphabetical list of patentees—Continued.

Roach, Harry F., assignor to Continuous Rail and Safety Switch Co., St. Louis, Mo. Adjustable connecting device. No. 990,594; Apr. 25; Sp. p. 5006; Gaz. vol. 165; p. 872.
Roach, Harry F., St. Louis, Mo., assignor, by mesne assignments, to Continuous Frog & Crossing Company, Wilmington, Del. Railway-crossing. No. 999,400; Aug. 1; Sp. p. 412; Gaz. vol. 169; p. 73.
Roach, John. (See Osborn and Roach.)
Roach, Richard A., Chicago, Ill. Spring-belt. No. 1,012,101; Dec. 19; Sp. p. 3845; Gaz. vol. 173; p. 665.
Roach, Walter A. J., San Antonio, Tex. Machine for shelling nuts. No. 990,294; Apr. 25; Sp. p. 4297; Gaz. vol. 165; p. 767.
Roach, William J., Powers Lake, N. D. Lap-link. No. 1,006,131; Oct. 17; Sp. p. 3429; Gaz. vol. 171; p. 609.
Roache, John B. (See Ely, James, assignor.)
Roan, C. T., *et al.* (See Erikson, Charles O., assignor.)
Roan, John M., Dante, Va. Haulage-locomotive. No. 980,338; Jan. 3; Sp. p. 315; Gaz. vol. 162; p. 57.
Roark, Trever C., Dodge, Tex. Car-replacer. No. 1,011,374; Dec. 12; Sp. p. 2199; Gaz. vol. 173; p. 375.
Robb-Engineering Company. (See Mumford, Joseph A., assignor.)
Robb, James L. (See Dobie and Robb.)
Robbins, Alfonzo D., assignor to G. R. Robbins, Freeport, N. Y. Universal joint. No. 1,012,443; Dec. 19; Sp. p. 4552; Gaz. vol. 173; p. 779.
Robbins, Alfred K., Cobleskill, N. Y. Package-packer. No. 990,777; Apr. 25; Sp. p. 5415; Gaz. vol. 165; p. 934.
Robbins, Arthur D., London, England. Cycle designed for stage purposes. No. 985,369; Feb. 28; Sp. p. 4570; Gaz. vol. 163; p. 819.
Robbins, Arthur D., London, England. Cycle. No. 985,370; Feb. 28; Sp. p. 4572; Gaz. vol. 163; p. 820.
Robbins, Charles L., Belfast, N. Y. Fruit-jar wrench. No. 994,953; June 13; Sp. p. 1897; Gaz. vol. 167; p. 334.
Robbins, Chester L., East Thompson, Conn. Dog attachment for sawmills. No. 981,945; Jan. 17; Sp. p. 3982; Gaz. vol. 162; p. 664.
Robbins, George B. (See Sharp, William E., assignor.)
Robbins, Grace R. (See Robbins, Alfonzo D., assignor.)
Robbins, Harry E., Carbondale, Pa. Curtain-pole fastener. No. 983,769; Feb. 7; Sp. p. 1094; Gaz. vol. 163; p. 176.
Robbins, Ira, Philadelphia, Pa., assignor to Ira Robbins Company. Envelop sealing and stamping machine. No. 987,916; Mar. 28; Sp. p. 4588; Gaz. vol. 164; p. 826.
Robbins, James M., and J. F. Crew, Rochelle, Tex. Vulcanizing device. No. 1,013,063; Dec. 26; Sp. p. 5938, Gaz. vol. 173; p. 1039.
Robbins, Ralph E., Hastings, Iowa. Anchor-board fastener. No. 990,778; Apr. 25; Sp. p. 5417; Gaz. vol. 165; p. 934.
Robbins, Rolland, Crafton, assignor to The Sanitary Fountain and Vending Machine Company, Pittsburgh, Pa. Cup-vending machine. No. 1,012,444; Dec. 19; Sp. p. 4554; Gaz. vol. 173; p. 780.
Robbins, Warren W., Reynolds, Ill. Adjustable milk-stool. No. 1,009,578; Nov. 21; Sp. p. 4352; Gaz. vol. 172; p. 749.
Robblee, Ide L., Woonsocket, R. I. Automobile-crank. No. 997,702; July 11; Sp. p. 2302; Gaz. vol. 168; p. 407.
Roben, Douglas. (See Pritchard, Henry C., assignor.)
Roberson, Elige L., Tyler, Tex. Animal-trap. No. 992,065; May 9; Sp. p. 2601; Gaz. vol. 166; p. 462.
Roberson, Theodore H., Haywards, Cal. Gas-generator. No. 1,009,694; Nov. 21; Sp. p. 4559; Gaz. vol. 172; p. 785.
Robert, Charles, Ladysmith, Wis. Fan attachment for fly-wheels. No. 1,010,957; Dec. 5; Sp. p. 1231; Gaz. vol. 173; p. 195.
Robert Gair Company. (See Gair, Broderick, and Beattie, assignors.)
Robert Gair Company. (See Hoyt, Guy L., assignor.)
Robert Graves Company, The. (See Jackson, William, assignor.)
Robert N. Bassett Company, The. (See Holden, Walter A., assignor.)
Robert Stock Manufacturing Co. (See Stock, Augusta M., assignor.)
Robert Stock Manufacturing Company. (See Stock, Robert, assignor.)
Roberti, Edward, Los Angeles, Cal. Spring-bed. No. 982,391; Jan. 24; Sp. p. 4895; Gaz. vol. 162; p. 848.
Roberts, Addo M., Greenville, Pa. Attachment for lathes. No. 1,012,445; Dec 19; Sp. p. 4559; Gaz. vol. 173; p. 780.
Roberts, Alice A., Brooklyn, N. Y. Bottle-closure. No. 1,002,318; Sept. 5; Sp. p. 303; Gaz. vol. 170; p. 43.
Roberts, Alice A., New York, N. Y. Hat-pin. No. 1,002,867; Sept. 12; Sp. p. 1540; Gaz. vol. 170; p. 268.
Roberts, Benjamin, Westbank, British Columbia, Canada. Combined saw set and gage. No. 985,706; Feb. 28; Sp. p. 5350; Gaz. vol. 163; p. 937.
Roberts, Charles W., Los Angeles, Cal. Sidewalk-light. No. 996,729 July 4; Sp. p. 258; Gaz. vol. 168; p. 45.
Roberts, David, and J. W. Young, Grantham, England. Vaporizer for internal-combustion engines. No. 983,646; Feb. 7; Sp. p. 840; Gaz. vol. 163; p. 134.
Roberts, David E., Fort Dodge, Iowa. Plaster-board. No. 985,207; Feb. 28; Sp. p. 4222; Gaz. vol. 163; p. 766.
Roberts, David E., Fort Dodge, Iowa. Method of and apparatus for producing plaster-boards. No. 1,008,991; Nov. 14; Sp. p. 3037; Gaz. vol. 172; p. 505.
Roberts, Edward, Leicester, England. Footwear. No. 984,608; Feb. 21; Sp. p. 2956; Gaz. vol. 163; p. 525.
Roberts, Edward C. (See Marks and Roberts.)
Roberts, Elijah J., Seattle, Wash. Extension-table. No. 992,066; May 9; Sp. p. 2602; Gaz. vol. 166; p. 463.
Roberts, Eugene, and A. H. Gibson, Lehi, Utah. Centrifugal machine. No. 1,011,851; Dec. 12; Sp. p. 3265; Gaz. vol. 173; p. 542.
Roberts, Ferdinand C., Detroit, Mich. Counterbalanced stand or cover. No. 980,339; Jan. 3; Sp. p. 319; Gaz. vol. 162; p. 57.
Roberts, Francis and V. J., Auckland, New Zealand. Hose-coupling for air-brakes. No. 985,551; Feb. 28; Sp. p. 4998; Gaz. vol. 163; p. 884.
Roberts, Frank S., Mosier, Oreg. Rail-joint. No. 992,805; May 23; Sp. p. 4221; Gaz. vol. 166; p. 779.
Roberts, Fred T., New York, N. Y. Filler for tires. No. 992,904; May 23; Sp. p. 4451; Gaz. vol. 166; p. 816.
Roberts, Fred T., New York, N. Y. Making fillers for tires. No. 1,012,161; Dec. 19; Sp. p. 3973; Gaz. vol. 173; p. 686.
Roberts, George W., Menardville, Tex. Windmill-gearing. No. 1,012,916; Dec. 26; Sp. p. 5606; Gaz. vol. 173; p. 988.
Roberts, Griffith D., Columbus, Wis. Power-hammer. No. 989,051; Apr. 11; Sp. p. 1595; Gaz. vol. 165; p. 280.
Roberts, Homer J., Evanston, assignor to Homer Roberts Telephone Co. Chicago, Ill. Common-battery lock-out telephone system. No. 996,143; June 27; Sp. p. 4444; Gaz. vol. 167; p. 804.
Roberts, Homer J., Evanston, Ill., assignor, by mesne assignments, to Homer Roberts Telephone Co. Switchboard-circuit and exchange apparatus for telephones. No. 1,000,123; Aug. 8; Sp. p. 1925; Gaz. vol. 169; p. 347.
Roberts, Horace, Chicago, Ill. Skate-holding clamp. No. 986,501; Mar. 14; Sp. p. 1586; Gaz. vol. 164; p. 282.
Roberts, Horace L., New York, N. Y. Carrier. No. 1,001,307; Aug. 22; Sp. p. 4535; Gaz. vol. 169; p. 822.
Roberts, Horace L., New York, N. Y. Thread-stitching machine for pamphlets and similar articles. No. 1,001,308; Aug. 22; Sp. p. 4537; Gaz. vol. 169; p. 823.
Roberts, Isaiah L., Lockport, N. Y. Making acid or alkali resisting articles. No. 992,256; May 16; Sp. p. 3062; Gaz. vol. 166; p. 559.
Roberts, J. W. (See Winkler, Ehregott T., assignor.)
Roberts, John A., Cardiff, England. Crane-bucket. No. 987,492; Mar. 21; Sp. p. 3657; Gaz. vol. 164; p. 652.
Roberts, John F., Hartford, Conn. Stocking-welt former. No. 1,001,983; Aug. 29; Sp. p. 5970; Gaz. vol. 169; p. 1081.
Roberts, Lorenzo D., Shawano, Wis. Calculator. No. 990,779; Apr. 25; Sp. p. 5418; Gaz. vol. 165; p. 934.
Roberts Lumber Company, The. (See Ware, Joseph L., assignor.)
Roberts, Omer L., Macy, Ind. Rail-joint. No. 1,011,492; Dec. 12; Sp. p. 2458; Gaz. vol. 173; p. 419.
Roberts, Richard S., assignor of one-fourth to J. Sheppard and one-fourth to G. Sheppard, New Orleans, La. Thill-coupling. No. 995,906; June 20; Sp. p. 3963; Gaz. vol. 167; p. 688.
Roberts, Samuel T., St. Louis, Mo. Reinforced strap. No. 993,274; May 23; Sp. p. 5228; Gaz. vol. 166; p. 938.
Roberts, Simon A., Hamburg, Ark. Line-support. No. 1,000,756; Aug. 15; Sp. p. 3322; Gaz. vol. 169; p. 600.
Roberts, Thomas, San Francisco, Cal. Shoe or boot ventilating device. No. 991,457; May 2; Sp. p. 1346; Gaz. vol. 166; p. 223.
Roberts, Thomas, Charlotte Harbor, Fla. Washer for pebble-phosphate and the like. No. 997,854; July 11; Sp. p. 2681; Gaz. vol. 168; p. 460.
Roberts, Thomas J., Atlanta, Ga. Apparatus for cranking automobiles. No. 1,004,201; Sept. 26; Sp. p. 4476; Gaz. vol. 170; p. 792.
Roberts, Tom H. (See Cooke, Joseph E. M., assignor.)
Roberts, Vernon J. (See Roberts, Francis and V. J.)
Roberts, Walter W., Seattle, Wash. Aerial-navigation machine. No. 996,366; June 27; Sp. p. 4999; Gaz. vol. 167; p. 880.
Roberts, William, Springfield, Ohio. Traveling rocking-horse. No. 1,010,178; Nov. 28; Sp. p. 5560; Gaz. vol. 172; p. 996.
Roberts, William H., assignor of one-half to W. J. Hoynes, Cleveland, Ohio. Sad-iron. No. 996,942; July 4; Sp. p. 714; Gaz. vol. 168; p. 117.
Robertshaw, Frederick W., Pittsburg, Pa. Thermostatic valve. No. 986,760; Mar. 14; Sp. p. 2135; Gaz. vol. 164; p. 371.
Robertshaw, Frederick W., Pittsburg, Pa. Thermostatic valve. No. 998,262; July 18; Sp. p. 3604; Gaz. vol. 168; p. 646.
Robertson, C. A. (See Francis, Harold R., assignor.)
Robertson, Charles J., Taunton, Mass., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Mechanical movement. No. 998,859; July 25; Sp. p. 4945; Gaz. vol. 168; p. 889.

Alphabetical list of patentees—Continued.

Robertson, Davy, Gottenborg, Sweden. Packing device for piston-rods, slide-valve rods, &c. No. 1,008,067; Nov. 7; Sp. p. 908; Gaz. vol. 172; p. 145.
Robertson, Donald, *et al.* (See Herd, Frank J., assignor.)
Robertson, Donald, Oakland, Cal. Signaling. No. 1,003,067; Sept. 12; Sp. p. 1944; Gaz. vol. 170; p. 336.
Robertson, Donald, New Westminster, and J. A. Atkinson, Central Park, British Columbia, Canada. Roof-rafter-calculating device. No. 989,806; Apr. 18; Sp. p. 3256; Gaz. vol. 165; p. 568.
Robertson, Edward D. (See Groah, Samuel W., assignor.)
Robertson, Ernest L., Greenville, S. C. Safety appliance for automobiles. No. 1,011,852; Dec. 12; Sp. p. 3267; Gaz. vol. 173; p. 542.
Robertson, Frank L., Omaha, Nebr. Force-pump. No. 984,158; Feb. 14; Sp. p. 1956; Gaz. vol. 163; p. 335.
Robertson, Frank L., Summerfield, N. C. Elevated carrier. No. 1,009,930; Nov. 28; Sp. p. 5049; Gaz. vol. 172; p. 911.
Robertson, George D., and J. W. Cash, Bogart, Ga. Cotton-gin cleaner. No. 981,115; Jan. 10; Sp. p. 2150; Gaz. vol. 162; p. 354.
Robertson, George L., Philadelphia, Pa. Shock-absorber. No. 1,006,283; Oct. 17; Sp. p. 3796; Gaz. vol. 171; p. 665.
Robertson, James D., Toledo, Ohio. Terminal clamp. No. 998,551; July 18; Sp. p. 4221; Gaz. vol. 168; p. 748.
Robertson, James D., Canton, Ill. Valve. No. 1,006,403; Oct. 17; Sp. p. 4048; Gaz. vol. 171; p. 705.
Robertson, James D., assignor to The Champion Spark Plug Company, Toledo, Ohio. Terminal clamp. No. 998,304; July 18; Sp. p. 3728; Gaz. vol. 168; p. 664.
Robertson, James D., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark-gap. No. 1,006,795; Oct. 24; Sp. p. 4929; Gaz. vol. 171; p. 873.
Robertson, James E., Fouke, Ark. Lamp-burner. No. 989,424; Apr. 11; Sp. p. 2399; Gaz. vol. 165; p. 405.
Robertson, James F., Pittsburg, Pa. Automatic uncoupling device for car-couplings. No. 982,532; Jan. 24; Sp. p. 5206; Gaz. vol. 162; p. 898.
Robertson, James H., New York, N. Y., assignor to Universal Ore Reduction Company, Phoenix, Ariz. Method or process of and apparatus for extracting metals from the ores thereof. No. 1,001,449; Aug. 22; Sp. p. 4826; Gaz. vol. 169; p. 870.
Robertson, Jefferson D., La Plata, Md. Hub-attaching device. No. 1,005,072; Oct. 3; Sp. p. 1080; Gaz. vol. 171; p. 181.
Robertson, John, Cincinnati, Ohio. Air-pump. No. 1,004,906; Oct. 3; Sp. p. 791; Gaz. vol. 171; p. 126.
Robertson, Joseph W., Cadiz, Ohio. Pencil-tip. No. 1,010,319; Nov. 28; Sp. p. 5850; Gaz. vol. 172; p. 1042.
Robertson, Percy C., Yonkers, N. Y. Cabinet. No. 997,416; July 11; Sp. p. 1702; Gaz. vol. 168; p. 309.
Robertson, Peter L., Hamilton, Ontario, Canada. Screw-blank-heading machine. No. 1,003,657; Sept. 19; Sp. p. 3205; Gaz. vol. 170; p. 577.
Robertson, William. (See Chapman and Robertson.)
Robeson, Edna G., Atlanta, Ga. Tension mechanism. No. 993,550; May 30; Sp. p. 5845; Gaz. vol. 166; p. 1065.
Robichon, Peter A., New York, N. Y. Coin-testing device for vending-machines. No. 993,878; May 30; Sp. p. 6541; Gaz. vol. 166; p. 1179.
Robier, Desire J. B., Brussels, Belgium. Mold for bending or shaping sheets of glass. No. 991,025; May 2; Sp. p. 410; Gaz. vol. 166; p. 70.
Robillot, Louis, Besançon, France. Automatic fire-alarm. No. 1,008,370; Nov. 14; Sp. p. 1643; Gaz. vol. 172; p. 293.
Robins Conveying Belt Co. (See Proal, Arthur B., Jr., assignor.)
Robins, Guy W., Lyster, Quebec, Canada. Time-indicator. No. 989,807; Apr. 18; Sp. p. 3258; Gaz. vol. 165; p. 569.
Robins, Thomas, New York, N. Y. Conveyer-belt. No. 981,312; Jan. 10; Sp. p. 2607; Gaz. vol. 162; p. 424.
Robinson, Alfred L., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Charging electric furnaces. No. 1,004,469; Sept. 26; Sp. p. 5016; Gaz. vol. 170; p. 882.
Robinson, Anderson C. S., Suffolk, Va. Display-rack. No. 1,002,084; Aug. 29; Sp. p. 6159; Gaz. vol. 169; p. 1114.
Robinson, Arthur S. F., Beccles, England. Garden and road roller. No. 988,818; Apr. 4; Sp. p. 1127; Gaz. vol. 165; p. 180.
Robinson, Arthur S. F., Beccles, England. Steering device for land-rollers. No. 995,291; June 13; Sp. p. 2564; Gaz. vol. 167; p. 445.
Robinson, C. U., *et al.* (See Barrett, Julious E., assignor.)
Robinson, Carl E., Decatur, Nebr. Clothes-line prop. No. 985,552; Feb. 28; Sp. p. 4999; Gaz. vol. 163; p. 884.
Robinson, Charles L., Los Angeles, Cal. Garment-clasp. No. 981,946; Jan. 17; Sp. p. 3984; Gaz. vol. 162; p. 665.
Robinson, Charles W., Hamilton, Ontario, Canada, assignor to International Harvester Company. Double disk-bearing for the furrow-openers of grain-drills. No. 1,008,068; Nov. 7; Sp. p. 909; Gaz. vol. 172; p. 146.
Robinson, Clark, Spokane, Wash. Wire gate. No. 992,387; May 16; Sp. p. 3368; Gaz. vol. 166; p. 606.
Robinson, Clark, and J. W. Counselman, Spokane, Wash. Lock-ferrule. No. 1,005,313; Oct. 10; Sp. p. 1627; Gaz. vol. 171; p. 291.
Robinson, Conway, Schenectady, N. Y., assignor to General Electric Company. Lightning-arrester. No. 1,011,493; Dec. 12; Sp. p. 2459; Gaz. vol. 173; p. 419.
Robinson, Cornelia S., New York, N. Y. Garbage-closet. No. 983,087; Jan. 31; Sp. p. 6398; Gaz. vol. 162; p. 1111.
Robinson, Cornelia S., New York, N. Y. Ventilating-conduit for garbage-closets. No. 983,770; Feb. 7; Sp. p. 1096; Gaz. vol. 163; p. 176.
Robinson, David F., assignor of one-half to I. M. Hollingsworth, Los Angeles, Cal. Track-oiling device. No. 996,367; June 27; Sp. p. 5002; Gaz. vol. 167; p. 881.
Robinson, David M., Allegheny, Pa. Brake-valve. No. 981,313; Jan. 10; Sp. p. 2610; Gaz. vol. 162; p. 424.
Robinson, E Alonzo, Palmyra, N. Y. Mail-crane. No. 986,314; Mar. 7; Sp. p. 1162; Gaz. vol. 164; p. 187.
Robinson, E. S. and A. (See Robinson, Benwell, Groves, and Harvey, assignors.)
Robinson, Earle T., St. Louis, Mo. Clutch. No. 1,007,977; Nov. 7; Sp. p. 731; Gaz. vol. 172; p. 114.
Robinson, Earle T., University, assignor to Robinson Fire Apparatus Manufacturing Company, St. Louis, Mo. Clutch and shifting mechanism therefor. No. 1,008,069; Nov. 7; Sp. p. 911; Gaz. vol. 172; p. 146.
Robinson, Edward, W. J. Benwell, E. C. Groves, and G. Harvey, assignors to E. S. and A. Robinson Limited, Bristol, England. Manufacture of paper and like bags. No. 985,285; Feb. 28; Sp. p. 4404; Gaz. vol. 163; p. 792.
Robinson, Edward, W. J. Benwell, E. C. Groves, and G. Harvey, assignors to E. S. and A. Robinson Limited, Bristol, England. Manufacture of paper and like bags. No. 1,003,658; Sept. 19; Sp. p. 3207; Gaz. vol. 170; p. 577.
Robinson, Edward W., assignor to Truckers Crate and Barrel Company, Savannah, Ga. Machine for making knockdown barrels or crates. No. 985,064; Feb. 21; Sp. p. 3864; Gaz. vol. 163; p. 682.
Robinson, Erdis G., *et al.*, administrators. (See Robinson, Stillman W. and E. G.)
Robinson, Eugene M., Chicago, Ill. Guard-rail adjustment. No. 980,440; Jan. 3; Sp. p. 546; Gaz. vol. 162; p. 92.
Robinson, Ezra L., Topeka, Kans. Vending-machine. No. 1,005,749; Oct. 10; Sp. p. 2576; Gaz. vol. 171; p. 443.
Robinson Fire Apparatus Manufacturing Company. (See Robinson, Earle T., assignor.)
Robinson, Forster, Casey, Ill. Hose-coupling. No. 997,855; July 11; Sp. p. 2683; Gaz. vol. 168; p. 461.
Robinson, Forster, Casey, Ill., assignor, by mesne assignments, to The U. C. Coupling Company, Columbus, Ohio. Pipe-coupling. No. 991,891; May 9; Sp. p. 2266; Gaz. vol. 166; p. 404.
Robinson, Frederick, assignor to Sure Number Lamp Company, New York, N. Y. Automobile number-displaying device. No. 997,469; July 11; Sp. p. 1802; Gaz. vol. 168; p. 326.
Robinson, George A., Boston, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Liquid-measuring device. No. 991,802; May 9; Sp. p. 2082; Gaz. vol. 166; p. 373.
Robinson, George A., Boston, assignor to Pneumatic Scale Corporation Limited, Quincy, Mass. Carton. No. 1,007,390; Oct. 31; Sp. p. 6245; Gaz. vol. 171; p. 1136.
Robinson, George A., and F. Grinham, St. Louis, Mo. Tail-light and traffic-signal for automobiles. No. 996,144; June 27; Sp. p. 4450; Gaz. vol. 167; p. 805.
Robinson, George H., Pittsburgh, Pa. Railway-tie and fastener. No. 1,009,579; Nov. 21; Sp. p. 4353; Gaz. vol. 172; p. 749.
Robinson, George H., assignor to C. A. Beldam, London, England. Packing for piston-rods or the like. No. 1,000,293; Aug. 8; Sp. p. 2284; Gaz. vol. 169; p. 404.
Robinson, Harry E. (See Whitaker and Metzger, assignors.)
Robinson, Henry D., Birmingham, England. Type-writer. No. 981,116; Jan. 10; Sp. p. 2153; Gaz. vol. 162; p. 355.
Robinson, Henry D., Richmond, Ind. Plant-support. No. 988,898; Apr. 4; Sp. p. 1271; Gaz. vol. 165; p. 204.
Robinson, Holton D., New York, N. Y. Cable-wrapping machine. No. 985,763; Feb. 28; Sp. p. 5455; Gaz. vol. 163; p. 957.
Robinson, Isaac, Chicago, Ill. Bath-brush and operating means therefor. No. 992,905; May 23; Sp. p. 4454; Gaz. vol. 166; p. 816.
Robinson, J. W. (See Baker, Willard D., assignor.)
Robinson, James H., assignor of one-half to F. M. Moxley, Lewiston, Idaho. Pencil-holder. No. 1,010,179; Nov. 28; Sp. p. 5562; Gaz. vol. 172; p. 996.
Robinson, James K., *et al* (See Francis, Horace G., assignor.)
Robinson, James R., Pasadena, Cal. Raising and lowering device. No. 981,314; Jan. 10; Sp. p. 2611; Gaz. vol. 162; p. 425.
Robinson, Jay A., Denver, Colo. Alarm. No. 996,279; June 27; Sp. p. 4793; Gaz. vol. 167; p. 850.
Robinson, Jay G., Chicago, Ill. Car-coupling. No. 985,450; Feb. 28; Sp. p. 4767; Gaz. vol. 163; p. 848.
Robinson, Jesse M., Alameda, Cal. Repeating explosive toy. No. 983,402; Feb. 7; Sp. p. 308; Gaz. vol. 163; p. 52.

Alphabetical list of patentees—Continued.

Robinson, Jesse M., Alameda, Cal. Trunk roping and fastening appliance. No. 987,321; Mar. 21; Sp. p. 3310; Gaz. vol. 164; p. 594.
Robinson, Joel F., Atlanta, Ga. Metallic tie and rail-fastening device. No. 1,000,845; Aug. 15; Sp. p. 3509; Gaz. vol. 169; p. 631.
Robinson, John H. (See Keeling, Newton, assignor.)
Robinson, John W., Yoakum, and F. L. Douglas, Rockport, Tex. Triple valve for fluid-pressure brakes. No. 1,005,314; Oct. 10; Sp. p. 1628; Gaz. vol. 171; p. 291.
Robinson, Julius G., assignor of one-third to R. F. Croom, executor of G. R. Farnham, deceased, and one-third to F. A. Strange, Brooklyn, Ala. Cross-tie for railway-tracks. No. 994,034; May 30; Sp. p. 6855; Gaz. vol. 166; p. 1231.
Robinson, La Fayette H., Grindstone, N. Y. Napkin-holder. No. 993,408; May 30; Sp. p. 5524; Gaz. vol. 166; p. 1017.
Robinson Limited, E. S. and A. (See Robinson, Benwell, Groves, and Harvey, assignors.)
Robinson, Millard S., Donora, Pa. Clamp. No. 1,010,075; Nov. 28; Sp. p. 5368; Gaz. vol. 172; p. 962.
Robinson, Moses, Huddersfield, and J. Dale, Burnley, England. Roundabout. No. 1,012,280; Dec. 19; Sp. p. 4236; Gaz. vol. 173; p. 727.
Robinson, Nathaniel G., Woolstock, Iowa. Transmission-gearing. No. 1,010,804; Dec. 5; Sp. p. 898; Gaz. vol. 173; p. 141.
Robinson, Perl J. (See Leisure and Robinson.)
Robinson, Robert E., *et al.*, trustees. (See Blackmore, Henry S., assignor.)
Robinson, Rupert C., assignor to W. A. Burdick, Providence, R. I. Holding and centering apparatus. No. 981,117; Jan. 10; Sp. p. 2154; Gaz. vol. 162; p. 355.
Robinson, Rupert C., Pawtucket, assignor to M. E. Barriere, Providence, R. I. Scarf-pin. No. 1,005,073; Oct. 3; Sp. p. 1081; Gaz. vol. 171; p. 182.
Robinson, Rupert C., Pawtucket, assignor to M. E. Barriere, Providence, R. I. Cuff-button. No. 1,005,074; Oct. 3; Sp. p. 1082; Gaz. vol. 171; p. 182.
Robinson, Stillman W., deceased, (E. G. Robinson and M. E. Thrailkill, executors,) and E. G. Robinson, Columbus, Ohio. Lens-grinding machine. No. 987,403; Mar. 21; Sp. p. 3478; Gaz. vol. 164; p. 622.
Robinson, Theodore D., Lockport, N. Y. Lock-switch. No. 1,006,981; Oct. 24; Sp. p. 5338; Gaz. vol. 171; p. 937.
Robinson, Walter H., Baltimore, Md. Machine for packing caps in cans. No. 982,092; Jan. 17; Sp. p. 4283; Gaz. vol. 162; p. 713.
Robinson, William, Brooklyn, N. Y. Reversible turbine. No. 994,201; June 6; Sp. p. 209; Gaz. vol. 167; p. 36.
Robinson, William J., Denver, Colo. Buttonhole-stitching attachment for sewing-machines. No. 1,012,709; Dec. 26; Sp. p. 5119; Gaz. vol. 173; p. 918.
Robinson, William W., Philadelphia, Pa. Mechanism for discharging boats. No. 987,017; Mar. 14; Sp. p. 2644; Gaz. vol. 164; p. 457.
Robinson, Willie E. (See Monroe and Robinson.)
Robinson, Willis, *et al.* (See Johnson, John W., assignor.)
Robinson, Winfield S., Hartford, Me. Insect-trap. No. 1,009,580; Nov. 21; Sp. p. 4354; Gaz. vol. 172; p. 750.
Robinson, Winfield S., Hartford, assignor to Dunn Edge Tool Company, Oakland, Me. Ax. No. 997,093; July 4; Sp. p. 1056; Gaz. vol. 168; p. 170.
Robson, Albert M. (See Appleyard and Robson.)
Roby, Luther E., Peoria, Ill. Grain-drill. No. 997,703; July 11; Sp. p. 2303; Gaz. vol. 168; p. 408.
Roby, Luther E., Peoria, Ill. Gearing. No. 1,002,868; Sept. 12; Sp. p. 1541; Gaz. vol. 170; p. 269.
Rocco, Giuseppe, Trieste, Austria-Hungary. Intermittent-light apparatus for sea-lights. No. 983,840; Feb. 7; Sp. p. 1255; Gaz. vol. 163; p. 200.
Roch, Pierre, and E. Challet, Rolle, Switzerland. Set-off square. No. 980,340; Jan. 3; Sp. p. 320; Gaz. vol. 162; p. 57.
Roch, Pierre, and E. Challet, Rolle, Switzerland. Instrument for making micrometric measurements. No. 1,005,883; Oct. 17; Sp. p. 2882; Gaz. vol. 171; p. 523.
Roche, David J., Chicago, Ill. Fire-escape. No. 992,257; May 16; Sp. p. 3064; Gaz. vol. 166; p. 559.
Roche, Herbert N., and W. R. Ray, assignors to T. B. Gray, San Francisco, Cal. Electric water-heater. No. 987,493; Mar. 21; Sp. p. 3659; Gaz. vol. 164; p. 652.
Roche, James, assignor to Eagle Lock Co., Terryville, Conn. Suit-case lock No. 995,722; June 20; Sp. p. 3549; Gaz. vol. 167; p. 625.
Roche, Michael J. (See Noonan and Roche.)
Roche, Thomas D., Cambridge, Mass. Liquid-distributing brush. No. 980,678; Jan. 3; Sp. p. 1094; Gaz. vol. 162; p. 174.
Roche, William J., Cochranton, Pa., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 995,483; June 20; Sp. p. 3028; Gaz. vol. 167; p. 539.
Rocheleau, Louis T. (See Metcalf and Rocheleau.)
Rochester Germicide Company. (See Calkins, Daniel N., assignor.)
Rochester Stamping Co. (See Swan, Alfred H. S., assignor.)
Rochester Wrapping Machine Company. (See Cowles and Hanford, assignors.)
Rock, Emmet B., Goodland, Kans. Sweep-rake. No. 1,006,284; Oct. 17; Sp. p. 3798; Gaz. vol. 171; p. 665.
Rock, Emmet B., Studley, Kans. Hay-stacker. No. 1,006,285; Oct. 17; Sp. p. 3799; Gaz. vol. 171; p. 666.
Rock, Frank. (See Fleming and Rock.)
Rock Island Plow Company. (See Heylman, Edward M., assignor.)
Rock Island Stove Company. (See Coulston, Earl V., assignor.)
Rockaway Automobile Company. (See Coleman, Clyde J., assignor.)
Rockaway Coaster Company, The. (See Brown, Silas B., assignor.)
Rockdaschel, George E., Sumner, Iowa. Harness-hook. No. 1,010,958; Dec. 5; Sp. p. 1232; Gaz. vol. 173; p. 195.
Rockey, Neil F. (See Cain and Rockey.)
Rockey, Walter S., and H. Eldridge, New York, N. Y. Manufacturing metallic manganese and aluminum fluorid. No. 988,509; Apr. 4; Sp. p. 462; Gaz. vol. 165; p. 75.
Rockey, Walter S., and H. Eldridge, New York, N. Y. Manufacturing metallic manganese and calcium fluorid. No. 1,007,734; Nov. 7; Sp. p. 175; Gaz. vol. 172; p. 29.
Rockford Drilling Machine Company. (See Milne, Robert, assignor.)
Rockford Iron Works. (See Souders, Perry S., assignor.)
Rockford Silver Plate Company. (See Hammond, Christopher W., assignor.)
Rockford Tool Company. (See Anderson, Swan F., assignor.)
Rockley, Samuel F., Eureka, Kans. Fly-trap. No. 985,840; Mar. 7; Sp. p. 175; Gaz. vol. 164; p. 28.
Rockman, Soren C., Philadelphia, Pa. Submarine boat. No. 998,204; July 18; Sp. p. 3465; Gaz. vol. 168; p. 625.
Rockola, George A., Birtle, Manitoba, Canada. Pump. No. 1,012,917; Dec. 26; Sp. p. 5607; Gaz. vol. 173; p. 988.
Rockstead, Martin, assignor to The Bolte & Weyer Co., Chicago, Ill. Removable generator for hydrocarbon-lamps. No. 995,370; June 13; Sp. p. 2770; Gaz. vol. 167; p. 472.
Rockstroh, Max, Klein-Sedlitz, near Pirna, Germany. Belt-controlling means. No. 993,317; May 23; Sp. p. 5307; Gaz. vol. 166; p. 952.
Rockwell, Charles L., Jersey City, assignor to Rockwell Printing Co., Hoboken, N. J. Desk-pad support. No. 1,011,853; Dec. 12; Sp. p. 3269; Gaz. vol. 173; p. 543.
Rockwell, Clifton C., Colorado Springs, Colo. Wireless check-row attachment for corn-planters. No. 998,205; July 18; Sp. p. 3469; Gaz. vol. 168; p. 625.
Rockwell, Frederick C. (See Hurd, Benjamin W., assignor.)
Rockwell Furnace Company. (See Davis, Edward S., assignor.)
Rockwell, Hubert R., assignor of one-half to T. S. Boswell, Mount Vernon, Ill. Safety appliance for engine-governors. No. 981,118; Jan. 10; Sp. p. 2156; Gaz. vol. 162; p. 355.
Rockwell Printing Co. (See Rockwell, Charles L., assignor.)
Rockwood, George I., Worcester, Mass. Apparatus for operating alarms and other devices. No. 989,052; Apr. 11; Sp. p. 1600; Gaz. vol. 165; p. 280.
Rockwood, George I., Worcester, Mass. Automatic sprinkler. No. 990,780; Apr. 25; Sp. p. 5420; Gaz. vol. 165; p. 935.
Rockwood, George I., and H. G. Carlson, Worcester, Mass.; said Carlson assignor to said Rockwood. Hanger-support. No. 989,808; Apr. 18; Sp. p. 3260; Gaz. vol. 165; p. 569.
Rodden, Richard M., Montreal, Quebec, Canada. Observation-car. No. 997,704; July 11; Sp. p. 2306; Gaz. vol. 168; p. 408.
Rodebaugh, William F., assignor of one-half to W. H. Rodebaugh, Cedarville, Ill. Hay-rack. No. 993,879; May 30; Sp. p. 6543; Gaz. vol. 166; p. 1179.
Rodebaugh, William H. (See Rodebaugh, William F., assignor.)
Rodeck, Armin, Milan, Italy. Electrolytic deposit of metals. No. 1,003,799; Sept. 19; Sp. p. 3510; Gaz. vol. 170; p. 624.
Rodehaver, Isaac H., Auburn, Cal. Gun. No. 990,669; Apr. 25; Sp. p. 5196; Gaz. vol. 165; p. 896.
Rodemeyer, Henry F. (See Platt and Rodemeyer.)
Rodenbeck, Henry W., assignor to Heard Manufacturing Company, Los Angeles, Cal. Wind-shield hinge. No. 991,026; May 2; Sp. p. 411; Gaz. vol. 166; p. 71.
Rodenhausen, Leonard, Philadelphia, Pa. Material for closing perforations and fractures in cigars. No. 1,008,730; Nov. 14; Sp. p. 2500; Gaz. vol. 172; p. 420.
Rodenhauser, Wilhelm, Völklingen, Germany, assignor to The Gröndal Kjellin Company, Limited, London, England. Furnace for metallurgical purposes. No. 984,970; Feb. 21; Sp. p. 3679; Gaz. vol. 163; p. 649.
Rodenhauser, Wilhelm, Völklingen-on-Saar, Germany, assignor to The Gröndal Kjellin Company, Limited, London, England. Electric induction-furnace. No. 987,404; Mar. 21; Sp. p. 3482; Gaz. vol. 164; p. 622.
Roderick, Charles. (See Griffiths and Roderick.)
Roderick, Charles H., Woodstock, Ill. Clothes-line reel. No. 993,409; May 30; Sp. p. 5525; Gaz. vol. 166; p. 1017.

Alphabetical list of patentees—Continued.

Rodger Ballast Car Company. (See Hart and Neikirk, assignors.)
Rodger Ballast Car Company. (See Hart, Neikirk, and Hahn, assignors.)
Rodgers, Frank, St. Louis, Mo. Sterilizing apparatus. No. 1,007,238; Oct. 31; Sp. p. 5929; Gaz. vol. 171; p. 1081.
Rodgers, Frederick A., Glen Ewen, Saskatchewan, Canada. Combined harrow and seeder. No. 989,725; Apr. 18; Sp. p. 3066; Gaz. vol. 165; p. 540.
Rodgers, Harry B., and W. S. Richter, assignors to D. R. Warfield and J. L. Eysmans, Chambersburg, Pa. Non-refillable bottle. No. 997,094; July 4; Sp. p. 1057; Gaz. vol. 168; p. 170.
Rodgers, Howard S., assignor to Single Service Package Corporation of America, New York, N. Y. Sifting-closure for vessels. No. 985,634; Feb. 28; Sp. p. 5157; Gaz. vol. 163; p. 911.
Rodgers, Joseph W. (See Willis and Rodgers.)
Rodgers, Louis E., Chicago, Ill. Drier. No. 996,943; July 4; Sp. p. 716; Gaz. vol. 168; p. 117.
Rodigin, Pantaleon M., Berdiansk, Russia. Rotary explosion-engine. No. 1,003,800; Sept. 19; Sp. p. 3512; Gaz. vol. 170; p. 625.
Rodin, Charles F., San Francisco, Cal. Automobile. No. 1,004,907; Oct. 3; Sp. p. 794; Gaz. vol. 171; p. 127.
Rodman Chemical Company. (See Rodman, Hugh, assignor.)
Rodman, Emma, Newport News, Va. Attachment for sewing-machines. No. 999,593; Aug. 1; Sp. p. 787; Gaz. vol. 169; p. 136.
Rodman, Ezra B., Portsmouth, Va. Automatic checker. No. 1,003,295; Sept. 12; Sp. p. 2436; Gaz. vol. 170; p. 419.
Rodman, Hugh, Pittsburg, Pa., assignor to Rodman Chemical Company. Carbonizing steel. No. 981,474; Jan. 10; Sp. p. 2961; Gaz. vol. 162; p. 480.
Rodman, James A., Wynne, Ark. Plow. No. 985,553; Feb. 28; Sp. p. 5002; Gaz. vol. 163; p. 885.
Rodman, James E., Topeka, Kans. Tree-planting machine. No. 1,007,735; Nov. 7; Sp. p. 177; Gaz. vol. 172; p. 30.
Rodney, Michael J. (See Cuddy, Thomas H., assignor.)
Rodwick, Ernest C., Ukiah, Cal. Cot-tent. No. 1,003,801; Sept. 19; Sp. p. 3514; Gaz. vol. 170; p. 625.
Roe, Alpheus E., Oakland, assignor to Associated Oil Company, San Francisco, Cal. Combination hydraulic-jet and water-lubricating air-lift. No. 1,012,224; Dec. 19; Sp. p. 4121; Gaz. vol. 173; p. 707.
Roe, David L., Pilot Grove, Mo. Gate-opener. No. 990,010; Apr. 18; Sp. p. 3686; Gaz. vol. 165; p. 639.
Roe, James P., Pottstown, Pa. Squeezer. No. 985,451; Feb. 28; Sp. p. 4774; Gaz. vol. 163; p. 848.
Roe, Nathaniel, Patchogue, N. Y. Awning-gearing. No. 1,006,404; Oct. 17; Sp. p. 4049; Gaz. vol. 171; p. 705.
Roe, Nathaniel, Patchogue, N. Y. Automatically-locked gear-box. No. 1,006,405; Oct. 17; Sp. p. 4050; Gaz. vol. 171; p. 706.
Roeber, Henry B., Tulare, S. D. Spring-latch. No. 1,011,854; Dec. 12; Sp. p. 3270; Gaz. vol. 173; p. 543.
Roebling's Sons Co., John A. (See Cooney, Sebern A., assignor.)
Roebuck, Alvah C., Chicago, Ill. Slide-changer. No. 998,305; July 18; Sp. p. 3729; Gaz. vol. 168; p. 664.
Roebuck, Alvah C., assignor to The Enterprise Optical Mfg. Company, Chicago, Ill. Kinetoscope safety-shutter. No. 1,006,406; Oct. 17; Sp. p. 4051; Gaz. vol. 171; p. 706.
Roed, Olaf A., Denver, Colo., assignor of one-half to C. P. Deatherage, Kansas City, Mo. Water-elevating apparatus. No. 1,000,345; Aug. 8; Sp. p. 2394; Gaz. vol. 169; p. 421.
Roediger, Paul L., Pleasantville, N. J. Machine for forming locking devices for jar-closures. No. 985,452; Feb. 28; Sp. p. 4777; Gaz. vol. 163; p. 849.
Roehrich, Frank N., Jersey City, N. J., assignor to H. G. Thomson, New York, N. Y. Wire-netting machine. No. 991,542; May 9; Sp. p. 1533; Gaz. vol. 166; p. 285.
Roehrig, Bernard F., assignor to M. N. Goldtree and L. A. Blochman, San Diego, Cal. Powder-box. No. 1,001,771; Aug. 29; Sp. p. 5495; Gaz. vol. 169; p. 1009.
Roehrig, Bernard F., assignor to M. N. Goldtree and L. A. Blochman, San Diego, Cal. Powder-box. No. 1,001,772; Aug. 29; Sp. p. 5496; Gaz. vol. 169; p. 1010.
Roehrig, Bernard F., assignor to M. N. Goldtree and L. A. Blochman, San Diego, Cal. Powder-box. No. 1,001,773; Aug. 29; Sp. p. 5497; Gaz. vol. 169; p. 1010.
Roelants, August, New York, N. Y., and H. Henebiens, Hoboken, N. J. Machine-scissors. No. 1,012,918; Dec. 26; Sp. p. 5609; Gaz. vol. 173; p. 989.
Roenius, Edmund, Grand Rapids, Wis. Chute. No. 1,002,319; Sept. 5; Sp. p. 305; Gaz. vol. 170; p. 43.
Roentgen Manufacturing Company. (See Snook and White, assignors.)
Roesch, Alfred, New York, assignor to C. J. Tagliabue, Brooklyn, N. Y. Thermometer No. 996,679; July 4; Sp. p. 165; Gaz. vol. 168; p. 29.
Roesch & Co., C. (See Ermbter, Jacob, assignor.)
Roesch, Frank P., Douglas, Ariz. Piston-head. No. 985,065; Feb. 21; Sp. p. 3868; Gaz. vol. 163; p. 683.
Roeseke, Otto, Stuttgart, Germany. Sheet-metal roller. No. 990,503; Apr. 25; Sp. p. 4825; Gaz. vol. 165; p. 841.
Roesen, Oscar, assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Folding mechanism. No. 981,882; Jan. 17; Sp. p. 3793; Gaz. vol. 162; p. 641.
Roesen, Oscar, assignor to R. Hoe and Co., New York, N. Y. Printing-machine. No. 1,007,008; Oct. 24; Sp. p. 5395; Gaz. vol. 171; p. 945.
Roesener, Christian, Pittsburg, Kans. Throttle-valve. No. 1,002,085; Aug. 29; Sp. p. 6160; Gaz. vol. 169; p. 1114.
Roessig, Max A., Omaha, Nebr. Composition for treating canvas and other fabrics. No. 988,388; Apr. 4; Sp. p. 215; Gaz. vol. 165; p. 35.
Roessler, Amandus C., Wandsworth Common, London, England. Rotary compressor. No. 986,502; Mar. 14; Sp. p. 1586; Gaz. vol. 164; p. 282.
Roessler & Hasslacher Chemical Company. (See Foersterling, Hans, assignor.)
Roessler & Hasslacher Chemical Company. (See McNitt, Robert J., assignor.)
Roessler & Hasslacher Chemical Co., The. (See Liebknecht, Otto, assignor.)
Roessler & Hasslacher Chemical Company, The. (See Schmidt, Friedrich L., assignor.)
Roeth, George, and B. W. Haskell, Oakland, Cal. Pier construction. No. 985,371; Feb. 28; Sp. p. 4573; Gaz. vol. 163; p. 820.
Roever, Frederick, Sheboygan, Wis. Upholstered bottom. No. 989,053; Apr. 11; Sp. p. 1603; Gaz. vol. 165; p. 281.
Roewe, Henry L., St. Louis, Mo. Miter-box. No. 998,989; July 25; Sp. p. 5253; Gaz. vol. 168; p. 936.
Roewe, Henry L., St. Louis, Mo. Mitering-machine. No. 999,058; July 25; Sp. p. 5398; Gaz. vol. 168; p. 961.
Roff, Frank E., Richfield Springs, N. Y. Dam. No. 985,841; Mar. 7; Sp. p. 176; Gaz. vol. 164; p. 29.
Röger, Karl, Berlin, Germany. Paper-feeding apparatus. No. 997,211; July 4; Sp. p. 1292; Gaz. vol. 168; p. 210.
Rogers Addresser Company. (See Hughes, Davydd C., assignor.)
Rogers, Albert, Coronado, Cal. Beehive. No. 993,551; May 30; Sp. p. 5847; Gaz. vol. 166; p. 1066.
Rogers, Albert, Coronado, Cal. Surveyor's combination grip and level. No. 1,004,084; Sept. 26; Sp. p. 4214; Gaz. vol. 170; p. 751.
Rogers, Arthur H., Springfield, Mass. Stamp-handle. No. 1,001,689; Aug. 29; Sp. p. 5320; Gaz. vol. 169; p. 982.
Rogers, Burt T., assignor to Victor Sporting Goods Company, Springfield, Mass. Base-ball glove. No. 980,679; Jan. 3; Sp. p. 1095; Gaz. vol. 162; p. 174.
Rogers, Charles R., Waverly, N. Y. Telephone-transmitter. No. 988,819; Apr. 4; Sp. p. 1129; Gaz. vol. 165; p. 180.
Rogers, Charles R., assignor to The Brunswick-Balke-Collender Company of New York, New York, N. Y. Molded receptacle. No. 999,523; Aug. 1; Sp. p. 655; Gaz. vol. 169; p. 112.
Rogers, Clarence T., New York, N. Y. Coasting-sled. No. 993,622; May 30; Sp. p. 5999; Gaz. vol. 166; p. 1091.
Rogers, Clarence T., New York, N. Y. Transom-mover. No. 1,005,315; Oct. 10; Sp. p. 1630; Gaz. vol. 171; p. 292.
Rogers, Daniel J., and S. A. Day, Staunton, Va. Stove. No. 998,121; July 18; Sp. p. 3311; Gaz. vol. 168; p. 596.
Rogers, Frank B., Belleville, Ill. Kindler for cupola-furnaces. No. 1,002,869; Sept. 12; Sp. p. 1546; Gaz. vol. 170; p. 269.
Rogers, Frank R., assignor to E. J. Barcalo, Buffalo, N. Y. Fence. No. 1,013,064; Dec. 26; Sp. p. 5939; Gaz. vol. 173; p. 1039.
Rogers, George E., Greenfield, assignor to Millers Falls Company, Millers Falls, Mass. Means for preventing frictional drag on rotating screw-heads. No. 981,315; Jan. 10; Sp. p. 2613; Gaz. vol. 162; p. 425.
Rogers, Harris, Albany, N. Y. Secret pocket. No. 994,873; June 13; Sp. p. 1715; Gaz. vol. 167; p. 306.
Rogers, Henry G., Au Sable Forks, N. Y. Machine for converting pulp into sheets. No. 1,005,655; Oct. 10; Sp. p. 2399; Gaz. vol. 171; p. 412.
Rogers, Herbert M. (See Hoffman and Rogers.)
Rogers, James H., and S. E. Creech, Gibson City, Ill. Calipers. No. 982,635; Jan. 24; Sp. p. 5394; Gaz. vol. 162; p. 931.
Rogers, John F., Belfast, Me. Vamp-marker. No. 991,892; May 9; Sp. p. 2268; Gaz. vol. 166; p. 405.
Rogers, John F., Cleveland, Ohio. Compensating mechanism for motor-vehicles. No. 1,002,870; Sept. 12; Sp. p. 1547; Gaz. vol. 170; p. 269.
Rogers, John H., Jacksonville, Tex. Seed-planter. No. 1,006,286; Oct. 17; Sp. p. 3800; Gaz. vol. 171; p. 666.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 998,802; July 25; Sp. p. 4807; Gaz. vol. 168; p. 869.
Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. No. 1,002,320; Sept. 5; Sp. p. 309; Gaz. vol. 170; p. 43.
Rogers, Knight E., South Manchester, Conn. Paper. No. 989,425; Apr. 11; Sp. p. 2400; Gaz. vol. 165; p. 405.
Rogers, Lee H., Parsons, Kans. Valve. No. 995,484; June 20; Sp. p. 3031; Gaz. vol. 167; p. 540.
Rogers, Lee H., Parsons, Kans., assignor of one-half to W. A. Daley, St. Louis, Mo. Tap and die holder. No. 991,543; May 9; Sp. p. 1544; Gaz. vol. 166; p. 285.
Rogers, Leo L., Boston, Mass., assignor to Rogers Unika Wheel Company. Vehicle-wheel. No. 981,947; Jan. 17; Sp. p. 3985; Gaz. vol. 162; p. 665.

Alphabetical list of patentees—Continued.

Rogers, Lewis E. (See Gumm, George C., assignor.)
Rogers, Nathaniel, Wolfboro, N. H. Safety-check for cutter-bars of mowing-machines. No. 995,907; June 20; Sp. p. 3964; Gaz. vol. 167; p. 688.
Rogers, Nathaniel J., Tuscaloosa, Ala. Hame-fastener. No. 982,995; Jan. 31; Sp. p. 6193; Gaz. vol. 162; p. 1080.
Rogers, Raymond R., Detroit, Mich. Sterilizing and shaking machine. No. 1,010,805; Dec. 5; Sp. p. 900; Gaz. vol. 173; p. 141.
Rogers, Robert H., Schenectady, N. Y., assignor to General Electric Company. Annealing device for paper-making machines and the like. No. 996,428; June 27; Sp. p. 5155; Gaz. vol. 167; p. 903.
Rogers, Robert H., Schenectady, N. Y., assignor to General Electric Company. Electric-motor drive. No. 1,008,562; Nov. 14; Sp. p. 2112; Gaz. vol. 172; p. 361.
Rogers-Schmitt Wire & Iron Co. (See Schmitt, Eugene E., assignor.)
Rogers Telephone & Electric Company, The. (See Lanz, John, assignor.)
Rogers, Thomas J., assignor of one-half to U. L. Hakes, Henley, Cal. Fly-trap. No. 984,392; Feb. 14; Sp. p. 2460; Gaz. vol. 163; p. 416.
Rogers, Ulysses J., Tonawanda, and L. P. Perew, North Tonawanda, N. Y. Butter-blender. No. 1,007,798; Nov. 7; Sp. p. 340; Gaz. vol. 172; p. 53.
Rogers Unika Wheel Company. (See Rogers, Leo L., assignor.)
Rogers, William H., Muncie, Ind. Rack for electroplating devices. No. 990,200; Apr. 18; Sp. p. 4080; Gaz. vol. 165; p. 701.
Rogers, William J., Plainfield, N. J. Needle-threader. No. 1,008,731; Nov. 14; Sp. p. 2500; Gaz. vol. 172; p. 420.
Rogers, William S., assignor, by mesne assignments, to American Safety Door Company, Cleveland, Ohio. Emergency safety-door latch. No. 1,010,689; Dec. 5; Sp. p. 630; Gaz. vol. 173; p. 101.
Rogers, William W., Frenchtown, N. J. Track-sanding mechanism for street-cars and the like. No. 992,990; May 23; Sp. p. 4638; Gaz. vol. 166; p. 846.
Rogow, David I. (See Harrison, Henry B., assignor.)
Rohde, Victor, New York, N. Y. Display-machine. No. 997,637; July 11; Sp. p. 2167; Gaz. vol. 168; p. 384.
Rohlfing, John M. (See Frame and Rohlfing.)
Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Tank-car underframe. No. 993,552; May 30; Sp. p. 5848; Gaz. vol. 166; p. 1066.
Röhm, Otto, Darmstadt, Germany. Bating hides. No. 1,003,124; Sept. 12; Sp. p. 2073; Gaz. vol. 170; p. 357.
Rohmer, William B., Bay St. Louis, Miss. Sanitary spoon-holder. No. 993,198; May 23; Sp. p. 5075; Gaz. vol. 166; p. 915.
Rohowits, John F., Seattle, Wash. Liquid-soap reservoir. No. 984,159; Feb. 14; Sp. p. 1958; Gaz. vol. 163; p. 336.
Rohr, Moritz von, assignor to Firm of C. Zeiss, Jena, Germany. Supplementary optical instrument. No. 983,569; Feb. 7; Sp. p. 690; Gaz. vol. 163; p. 107.
Rohr, Moritz von, assignor to Firm of C. Zeiss, Jena, Germany. Toric spectacle-glass. No. 989,645; Apr. 18; Sp. p. 2908; Gaz. vol. 165; p. 513.
Rohr, Moritz von, assignor to Firm of C. Zeiss, Jena, Germany. Magnifying spectacle-glass. No. 1,000,346; Aug. 8; Sp. p. 2395; Gaz. vol. 169; p. 422.
Rohrbacher, Edward J., Portland, Oreg. Hose-connector. No. 995,185; June 13; Sp. p. 2367; Gaz. vol. 167; p. 410.
Rohrbacher, William, Connellsville, Pa. Boiler accessory. No. 1,010,959; Dec. 5; Sp. p. 1234; Gaz. vol. 173; p. 195.
Rohrbeck, Fritz, St. Veit-on-the-Triesting, Austria-Hungary. Bearing support or bracket. No. 1,001,167; Aug. 22; Sp. p. 4234; Gaz. vol. 169; p. 775.
Rohrer, Daniel. (See Baab and Rohrer.)
Rohrer, Jakob, Muri, near Berne, Switzerland. Device for soldering band-saws. No. 988,820; Apr. 4; Sp. p. 1132; Gaz. vol. 165; p. 180.
Rohrer, Ross H., Quarryville, Pa. Automobile lamp-bracket. No. 987,322; Mar. 21; Sp. p. 3311; Gaz. vol. 164; p. 594.
Rohs, Peter. (See Butler, Archie, assignor.)
Rohsow, Robert, and F. Loewer, New York, N. Y. Tool for burnishing velvet. No. 998,397; July 18; Sp. p. 3930; Gaz. vol. 168; p. 696.
Roisum, Peder, Edmore, N. D. Wrench. No. 986,593; Mar. 14; Sp. p. 1779; Gaz. vol. 164; p. 315.
Roland, Otto, Hanover-Linden, Germany. Lock. No. 997,705; July 11; Sp. p. 2308; Gaz. vol. 168; p. 408.
Rolfe, Charles A., Adrian, Mich., assignor, by mesne assignments, to Rolfe Electric Co., Rochester, N. Y. Thermal electrical protector. No. 1,005,475; Oct. 10; Sp. p. 1969; Gaz. vol. 171; p. 347.
Rolfe Electric Co. (See Rolfe, Charles A., assignor.)
Rolfe, William H., and C. H. Baker, Wabash, Ind. Street-cleaning pan. No. 981,883; Jan. 17; Sp. p. 3795; Gaz. vol. 162; p. 642.
Rolka, Ignatius B., Patton, Pa. Propeller-operating means. No. 984,393; Feb. 14; Sp. p. 2461; Gaz. vol. 163; p. 416.
Rolka, Ignatius B., assignor of one-half to W. Lawn, Gallitzin, Pa. Propeller-operating means. No. 1,001,984; Aug. 29; Sp. p. 5972; Gaz. vol. 169; p. 1081.
Rolker, Frederic. (See Migliora and Rolker.)
Roll, Frederick W., Sr., and J. V. King, Jr., Glenfield, Pa. Combined shade-roller and curtain-pole support. No. 1,009,581; Nov. 21; Sp. p. 4355; Gaz. vol. 172; p. 750.
Roll, Lewis S. (See Pettit and Roll.) (Reissue.)
Rolland, Yves, assignor to L. C. Doggett, Chicago, Ill. Apparatus for aerial navigation. No. 1,001,309; Aug. 22; Sp. p. 4539; Gaz. vol. 169; p. 823.
Rolle, Herman, assignor of one-half to H. S. Adams, Philadelphia, Pa. Ink-fountain. No. 992,690; May 16; Sp. p. 3978; Gaz. vol. 166; p. 710.
Rolle, Herman, assignor of one-half to H. S. Adams, Philadelphia, Pa. Pencil-sharpener. No. 997,741; July 11; Sp. p. 2418; Gaz. vol. 168; p. 421.
Rolle, William J., Oilfields, Cal. Hose-coupling. No. 991,374; May 2; Sp. p. 1174; Gaz. vol. 166; p. 196.
Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Electrical measuring instrument. No. 995,292; June 13; Sp. p. 2567; Gaz. vol. 167; p. 445.
Roller-Smith Company. (See Badeau, Charles C., assignor.)
Roller-Smith Company. (See Badeau, Charles C. and I. F., assignors.)
Roller-Smith Company. (See Roller, Frank W., assignor.)
Rollin, Charles, Newcastle-upon-Tyne, England. Making barium oxid. No. 1,008,070; Nov. 7; Sp. p. 912; Gaz. vol. 172; p. 147.
Rollinger, Rudolph, Chicago, Ill. Outside wall. No. 984,517; Feb. 14; Sp. p. 2729; Gaz. vol. 163; p. 457.
Rollings, Alex W., assignor of one-half to M. J. Powell, Montgomery, Ala. Air-brake-release device. No. 1,001,985; Aug. 29; Sp. p. 5975; Gaz. vol. 169; p. 1082.
Rollings, George F. D. (See Williams and Rollings.)
Rollings, William V., Coatesville, Ind. Stove. No. 992,596; May 16; Sp. p. 3818; Gaz. vol. 166; p. 680.
Rollins, Arvin L. (See Rollins, Frank E. and A. L.)
Rollins, Charles E., Mattoon, Wis. Cork-extractor. No. 980,839; Jan. 3; Sp. p. 1412; Gaz. vol. 162; p. 226.
Rollins, Frank E. and A. L., Mattoon, Wis. Car-stake. No. 1,001,690; Aug. 29; Sp. p. 5322; Gaz. vol. 169; p. 983.
Rollins, Frank O., assignor of one-half to W. F. Runnells and N. Russell, Newburyport, Mass. Shoemaker's jack. No. 1,004,470; Sept. 26; Sp. p. 5017; Gaz. vol. 170; p. 883.
Rollins, George D., Philadelphia, Pa. Metallic packing. No. 1,000,757; Aug. 15; Sp. p. 3323; Gaz. vol. 169; p. 600.
Rollman, Michael A., Mount Joy, Pa., assignor to Richmond Cedar Works, Richmond, Va. Ice-cream freezer. No. 1,011,247; Dec. 12; Sp. p. 1914; Gaz. vol. 173; p. 330.
Rolph, Joseph W., Jr. (See O'Leary, Edward J., assignor.)
Rolshoven, Eduard, Altena, Germany. Wire-drawing machine. No. 1,009,344; Nov. 21; Sp. p. 3835; Gaz. vol. 172; p. 668.
Rolston, Walter F., assignor to Burson Manufacturing Company, Rockford, Ill. Knitting-machine. No. 990,595; Apr. 25; Sp. p. 5009; Gaz. vol. 165; p. 872.
Rolston, Walter F., assignor to Burson Manufacturing Company, Rockford, Ill. Take-up mechanism for knitting-machines. No. 1,012,710; Dec. 26; Sp. p. 5126; Gaz. vol. 173; p. 919.
Roman, Leonard, Greenleaf, Minn. Hoisting device. No. 998,306; July 18; Sp. p. 3738; Gaz. vol. 168; p. 664.
Romancsik, Frank, Harrison, N. J. Protractor surface-gage. No. 1,001,986; Aug. 29; Sp. p. 5976; Gaz. vol. 169; p. 1082.
Rome-Turney Radiator Company. (See Stolp, Frank H., assignor.)
Romel, Oscar, *et al.*, trustees. (See Folger and Comstock, assignors.)
Romig, John F., Brazil, N. D. Spark-arrester. No. 984,394; Feb. 14; Sp. p. 2464; Gaz. vol. 163; p. 417.
Romine, John W., *et al.* (See Gourley, William R., assignor.)
Romines, Leroy, Martinsville, Ill. Latch. No. 983,647; Feb. 7; Sp. p. 841; Gaz. vol. 163; p. 134.
Rominger, Adolf, Guttenberg, N. J. Embroidery-frame. No. 985,453; Feb. 28; Sp. p. 4780; Gaz. vol. 163; p. 849.
Rónay, Arpad, assignor to Allgemeine Briketierungs-Gesellschaft m. b. H., Berlin, Germany. Briqueting and pressing material. No. 1,002,453; Sept. 5; Sp. p. 617; Gaz. vol. 170; p. 89.
Roncaglia, Americus, Denver, Colo. Folding camp-stove. No. 982,302; Jan. 24; Sp. p. 4717; Gaz. vol. 162; p. 816.
Ronceray, Eugéne, assignor to Société Anonyme des Etablissements Ph. Bonvillain and E. Ronceray, Paris, France. Molding-machine. No. 1,006,681; Oct. 24; Sp. p. 4681; Gaz. vol. 171; p. 833.
Ronconi, Domenico, Baltimore, Md. Wheel-tire. No. 1,008,284; Nov. 7; Sp. p. 1379; Gaz. vol. 172; p. 224.
Rondebush, Jacob C., Oshkosh, Nebr. Well-pipe lifter No. 990,391; Apr. 25; Sp. p. 4541; Gaz. vol. 165; p. 802.
Roney, John, and J. C. Rae, Woonsocket, R. I. Bobbin and spindle connector. No. 999,059; July 25; Sp. p. 5400; Gaz. vol. 168; p. 961.
Roney, John, and J. C. Rae, Woonsocket, R. I. Bobbin and spindle connector. No. 1,007,239; Oct. 31; Sp. p. 5930; Gaz. vol. 171; p. 1082.
Roney, Robert H., Burlington, N. C. Umbrella. No. 985,842; Mar. 7; Sp. p. 179; Gaz. vol. 164; p. 29.

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Ronjat, Benjamin, Paris, France. Treatment of hair for felting or like purposes. No. 993,461; May 30; Sp. p. 5646; Gaz. vol. 166; p. 1033.
Ronneberger, Benjamin F. (See Knapp and Ronneberger.)
Rontke, Albert, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 989,538; Apr. 11; Sp. p. 2655; Gaz. vol. 165; p. 446.
Rontke, Albert, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Binding attachment for sewing-machines. No. 1,008,563; Nov. 14; Sp. p. 2116; Gaz. vol. 172; p. 362.
Ronus, Max. (See Herzberg, Ronus, and Schwabe.)
Roof, Robert M., assignor to The Peoples Trust Company, trustee, Muncie, Ind. Valve mechanism for gas-engines. No. 995,807; June 20; Sp. p. 3753; Gaz. vol. 167; p. 654.
Rook, James W., *et al.* (See Beaumont, Frederick J., assignor.)
Rooker, William V., Hamilton county, Ind. Milk cooler and aerator. No. 989,054; Apr. 11; Sp. p. 1604; Gaz. vol. 165; p. 281.
Rooney, Elwin H., assignor to The Whitin Machine Works, Whitinsville, Mass. Combing-machine. No. 1,002,454; Sept. 5; Sp. p. 622; Gaz. vol. 170; p. 89.
Rooney, James, Croton-on-Hudson, N. Y. Aeroplane construction. No. 985,372; Feb. 28; Sp. p. 4574; Gaz. vol. 163; p. 820.
Rooney, James, Croton-on-Hudson, assignor of one-half to J. Rooney, New York, N. Y. Aeroplane construction. No. 985,373; Feb. 28; Sp. p. 4575; Gaz. vol. 163; p. 821.
Rooney, John. (See Rooney, James, assignor.)
Rooney, John J., New York, N. Y. Incandescent electric lamp. No. 1,011,890; Dec. 12; Sp. p. 3346; Gaz. vol. 173; p. 555.
Rooney, John P. (See Mulvihill and Rooney.)
Rooney, Michael L. (See Mulvihill and Rooney.)
Roop, Alley, assignor of one-third to J. T. Morris and one-third to C. S. B. Henry, Raymond, Wash. Whiffletree-hook and trace-fastener. No. 995,908; June 20; Sp. p. 3967; Gaz. vol. 167; p. 688.
Roop, John W., Apache, Okla. Churn. No. 1,004,908; Oct. 3; Sp. p. 795; Gaz. vol. 171; p. 127.
Roos, Henry, Pittsburg, Pa. Chuck-block. No. 982,533; Jan. 24; Sp. p. 5208; Gaz. vol. 162; p. 898.
Roos, Herman, Berlin, Germany, assignor to General Electric Company. Means for cooling dynamo-electric machines. No. 1,000,846; Aug. 15; Sp. p. 3511; Gaz. vol. 169; p. 631.
Roos, Hermann, Berlin, Germany, assignor to General Electric Company. Dynamo-electric machine. No. 1,010,522; Dec. 5; Sp. p. 276; Gaz. vol. 173; p. 44.
Roos, Oscar C., Cambridge, Mass. Apparatus for determining the direction of space-telegraph signals. No. 984,108; Feb. 14; Sp. p. 1859; Gaz. vol. 163; p. 319.
Roosa, Samuel, Owosso, Mich. Harvester for beans, peas, and the like. No. 1,001,168; Aug. 22; Sp. p. 4235; Gaz. vol. 169; p. 775.
Root, Arthur, Lewisburg, Pa., assignor to Chambers Brothers Company. Grinding-machine. No. 1,007,391; Oct. 31; Sp. p. 6247; Gaz. vol. 171; p. 1137.
Root, Francis J., assignor to New York Wire Cloth Company, New York, N. Y. Electroplating of wire-cloth. No. 1,003,659; Sept. 19; Sp. p. 3209; Gaz. vol. 170; p. 578.
Root, Wayland L., Spokane, Wash. Stall. No. 1,004,202; Sept. 26; Sp. p. 4478; Gaz. vol. 170; p. 792.
Roovaart, Marion, Ankeny, Iowa. Driving-cap for posts. No. 994,538; June 6; Sp. p. 908; Gaz. vol. 167; p. 150.
Roper, Andrew W., Frankston, Tex. Walking-cultivator. No. 993,880; May 30; Sp. p. 6545; Gaz. vol. 166; p. 1179.
Roper & Co., C. F. (See Roper, Walter F., assignor.)
Roper, Walter F., assignor to C. F. Roper & Co., Hopedale, Mass. Coupling. No. 980,341; Jan. 3; Sp. p. 321; Gaz. vol. 162; p. 58.
Roper, William, *et al.* (See Baker, Ernest M., assignor.)
Roper, William, Ealing, England. Apparatus for limiting the speed of motor-cars and other vehicles. No. 986,503; Mar. 14; Sp. p. 1589; Gaz. vol. 164; p. 283.
Roper, William, Philadelphia, Pa. Transom support and fastener. No. 1,000,691; Aug. 15; Sp. p. 3194; Gaz. vol. 169; p. 577.
Roper, William, Philadelphia, Pa. Hinge. No. 1,012,162; Dec. 19; Sp. p. 3979; Gaz. vol. 173; p. 686.
Roper, William, Philadelphia, Pa. Metal casement. No. 1,012,225; Dec. 19; Sp. p. 4124; Gaz. vol. 173; p. 707.
Rosada, Roger, New Orleans, La. Elevated railway. No. 1,003,950; Sept. 19; Sp. p. 3858; Gaz. vol. 170; p. 677.
Roscoe, Charlie H., Goldsmith, N. Y. Shovel-handle. No. 986,761; Mar. 14; Sp. p. 2137; Gaz. vol. 164; p. 372.
Rosdorff, Fritz, Potsdam, Germany. Protective cover for pneumatic tubes. No. 996,796; July 4; Sp. p. 392; Gaz. vol. 168; p. 66.
Rose, Alonzo N., New York, N. Y. Water-cooler. (Reissue.) No. 13,286; Aug. 22; Sp. p. 5120; Gaz. vol. 169; p. 920.
Rose, Carl E., San Diego, Cal. Door-gage. No. 1,004,471; Sept. 26; Sp. p. 5019; Gaz. vol. 170; p. 883.
Rose, Charles W., New Castle, Pa. Wrench. No. 992,597; May 16; Sp. p. 3820; Gaz. vol. 166; p. 680.
Rose, David B. G., Louisville, Ky. Package-tie. No. 1,001,079; Aug. 22; Sp. p. 4078; Gaz. vol. 169; p. 748.
Rose, Edgar J., Los Angeles, Cal. High-tension discharge apparatus. No. 996,280; June 27; Sp. p. 4795; Gaz. vol. 167; p. 850.
Rose, Edward E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Contact-finger. No. 1,005,316; Oct. 10; Sp. p. 1632; Gaz. vol. 171; p. 292.
Rose, Edward F., Fort Collins, Colo., assignor to Kansas City Feed Company, Limited, Prescott, Ariz. Alfalfa-mill. No. 991,893; May 9; Sp. p. 2269; Gaz. vol. 166; p. 405.
Rose, Edward F., Nebraska City, Nebr., assignor to Kansas City Feed Company, Limited, Prescott, Ariz. Alfalfa-mill. No. 1,006,596; Oct. 24; Sp. p. 4514; Gaz. vol. 171; p. 805.
Rose, Elias B., Bozeman, Mont. Oil-can. No. 985,066; Feb. 21; Sp. p. 3869; Gaz. vol. 163; p. 683.
Rose, George F., New York, N. Y. Platen-carriage for typewriters. No. 995,186; June 13; Sp. p. 2368; Gaz. vol. 167; p. 410.
Rose, Harry. (See Sprung and Rose.)
Rose, Hubert B., Tenino, Wash. Ironing-machine. No. 987,323; Mar. 21; Sp. p. 3314; Gaz. vol. 164; p. 595.
Rose, John H., Dayton, Ohio. Oscillating water-motor. No. 1,012,164; Dec. 19; Sp. p. 3980; Gaz. vol. 173; p. 687.
Rose, Joseph, Cleveland, Ohio. Pattern-blank. No. 998,039; July 18; Sp. p. 3120; Gaz. vol. 168; p. 567.
Rose, Minnie S., Washington, D. C. Gas-stove attachment. No. 1,001,450; Aug. 22; Sp. p. 4829; Gaz. vol. 169; p. 870.
Rose, Paul A., assignor to Acetylene Apparatus Mfg. Co., Chicago, Ill. Acetylene-gas generator. No. 1,004,909; Oct. 3; Sp. p. 797; Gaz. vol. 171; p. 128.
Rose, Richard C., Osceola, Ark. Watchman's clock. No. 984,301; Feb. 14; Sp. p. 2282; Gaz. vol. 163; p. 387.
Rose, Richard C., Osceola, Ark. Watchman's clock. No. 999,874; Aug. 8; Sp. p. 1351; Gaz. vol. 169; p. 261.
Rose, Samuel I., *et al.* (See Risbridger, William C. and M. W., assignors.)
Rose, William, Gainsborough, England, assignor to R. H. Wright, Durham, N. C. Package-indicating machine. No. 985,939; Mar. 7; Sp. p. 392; Gaz. vol. 164; p. 62.
Rosean, John H., assignor of one-half to H. L. Raiff and E. B. Thayer, Columbus, Mont. Endless cutting apparatus for mowers. No. 1,000,949; Aug. 15; Sp. p. 3724; Gaz. vol. 169; p. 667.
Rosebrough, Robert W., Portland, Oreg. Truck. No. 1,006,287; Oct. 17; Sp. p. 3801; Gaz. vol. 171; p. 666.
Roseland, Carl A., Rockford, Ill. Flue-stopper. No. 999,401; Aug. 1; Sp. p. 417; Gaz. vol. 169; p. 74.
Roselius, Ludwig. (See Meyer, Roselius, and Wimmer.) (Reissue.)
Roselius, Ludwig, Bremen, Germany. Preparation of coffee. No. 1,000,692; Aug. 15; Sp. p. 3195; Gaz. vol. 169; p. 578.
Roseman, George, Dollar Bay, Mich. Agricultural machine. No. 1,006,880; Oct. 24; Sp. p. 5133; Gaz. vol. 171; p. 904.
Rosen, Louis, Chicago, Ill. Propelling means No. 993,275; May 23; Sp. p. 5230; Gaz. vol. 166; p. 938.
Rosen, Louis, Chicago, Ill. Hod or bin for coal or other materials. No. 1,001,691; Aug. 29; Sp. p. 5324; Gaz. vol. 169; p. 983.
Rosenbaum, Walter, *et al.* (See Hovey, Allyne C., assignor.)
Rosenbeck, Andrew K., New Haven, Conn. Tool-holder. No. 993,553; May 30; Sp. p. 5850; Gaz. vol. 166; p. 1066.
Rosenberg, Adolph, and E. E. Clark, Buffalo, N. Y. Mail-box. No. 1,001,080; Aug. 22; Sp. p. 4079; Gaz. vol. 169; p. 748.
Rosenberg, Albert, Baltimore, Md. Ejector. No. 997,584; July 11; Sp. p. 2046; Gaz. vol. 168; p. 365.
Rosenberg, Augustus, London, England. Electromagnetic vibrator for local application to the person. No. 1,000,294; Aug. 8; Sp. p. 2285; Gaz. vol. 169; p. 405.
Rosenberg, Edward, London, England, assignor to Standard Varnish Works, New York, N. Y. Apparatus for drying varnished articles. No. 992,991; May 23; Sp. p. 4639; Gaz. vol. 166; p. 847.
Rosenberg, Herman J., Evanston, Ill. Non-refillable bottle. No. 985,940; Mar. 7; Sp. p. 394; Gaz. vol. 164; p. 63.
Rosenberg, Jacob, New York, N. Y. Collapsible chair. No. 995,723; June 20; Sp. p. 3551; Gaz. vol. 167; p. 625.
Rosenberg, Joseph, and R. Glabaznya, Chicago, Ill. Airship. No. 1,010,076; Nov. 28; Sp. p. 5369; Gaz. vol. 172; p. 962.
Rosenberger, Charles B., Pittsburg, Pa. Puzzle postal card. No. 984,302; Feb. 14; Sp. p. 2284; Gaz. vol. 163; p. 387.
Rosenberger, Valentine C., assignor of one-half to J. C. Gramlich, Philadelphia, Pa. Separable square. No. 982,636; Jan. 24; Sp. p. 5395; Gaz. vol. 162; p. 931.
Rosenberger, Willy, Brooklyn, N. Y. Water-closet seat. No. 1,003,802; Sept. 19; Sp. p. 3515; Gaz. vol. 170; p. 625.
Rosenblatt, Girard B., Butte, Mont., assignor to Westinghouse Electric & Manufacturing Company. Protective device for electrical circuits. No. 999,875; Aug. 8; Sp. p. 1353; Gaz. vol. 169; p. 261.

Alphabetical list of patentees—Continued.

Rosenblatt, Irving S., San Francisco, Cal. Antiseptic telephone-mouthpiece. No. 1,012,919; Dec. 26; Sp. p. 5612; Gaz. vol. 173; p. 989.
Rosenblum, Solomon, Brooklyn, N. Y. Repair-tip for shoes. No. 990,295; Apr. 25; Sp. p. 4310; Gaz. vol. 165; p. 767.
Rosencranz, Emil C., Evansville, Ind. Shoe-fastener. No. 982,746; Jan. 24; Sp. p. 5635; Gaz. vol. 162; p. 966.
Rosenfeld, Joseph, Detroit, Mich. Muffler. No. 1,006,288; Oct. 17; Sp. p. 3803; Gaz. vol. 171; p. 666.
Rosenfeld, Maurice S., assignor to The Warning Signal Lamp Company, New York, N. Y. Indicating tail-lamp. No. 1,010,806; Dec. 5; Sp. p. 902; Gaz. vol. 173; p. 141.
Rosenfeld, Mortimer C. (See McCabe and Rosenfeld.)
Rosenfeld, Simon O., West Point, Miss. Drinking-cup. No. 991,246; May 2; Sp. p. 894; Gaz. vol. 166; p. 152.
Rosenfelder, Bertin. (See Jauch and Rosenfelder.)
Rosenfield, William W., New York, N. Y. Motor. No. 985,454; Feb. 28; Sp. p. 4781; Gaz. vol. 163; p. 849.
Rosengren, Anders A., Malmö, Sweden. Car-coupling mechanism. No. 1,001,890; Aug. 29; Sp. p. 5765; Gaz. vol. 169; p. 1051.
Rosenheim, Ervin, Philadelphia, Pa. Ventilator. No. 1,011,494; Dec. 12; Sp. p. 2461; Gaz. vol. 173; p. 419.
Rosenheim, Ida S. (See Both, Tonjes A. C., assignor.)
Rosenhek, Joseph, H. Mirocourt, Lyon, and R. Loup, Caluire, assignors to Manufacture Lyonnaise de Matieres Colorantes, Lyon, France. Making sodium hydrosulfite. No. 990,457; Apr. 25; Sp. p. 4692; Gaz. vol. 165; p. 825.
Rosenkranz, Louis, Rhinebeck, N. Y. Peanut-roaster. No. 1,004,472; Sept. 26; Sp. p. 5021; Gaz. vol. 170; p. 883.
Rosenow, Curt, Peoria, Ill. Extracting sucrose. No. 989,876; Apr. 18; Sp. p. 3395; Gaz. vol. 165; p. 592.
Rosenquist, Clard W., Rose City, Mich. Level. No. 1,008,732; Nov. 14; Sp. p. 2502; Gaz. vol. 172; p. 420.
Rosenson, Aaron, Ambridge, Pa. Fan attachment for chairs. No. 981,475; Jan. 10; Sp. p. 2961; Gaz. vol. 162; p. 481.
Rosenstein, Adolf, Neisse, Germany. Change-speed gearing. No. 1,002,455; Sept. 5; Sp. p. 625; Gaz. vol. 170; p. 89.
Rosenstock, Morris B., New York, N. Y. Sanitary toilet. No. 1,005,075; Oct. 3; Sp. p. 1083; Gaz. vol. 171; p. 182.
Rosenthal, August, West Allis, Wis. Straw stacker and elevator. No. 992,806; May 23; Sp. p. 4222; Gaz. vol. 166; p. 780.
Rosenthal, Herman, Chicago, Ill. Adjusting mechanism for rollers. No. 991,544; May 9; Sp. p. 1546; Gaz. vol. 166; p. 286.
Rosenthal, James H., London, and E. C. Carnt, East Cowes, Isle of Wight, England. Steam-generator. No. 990,905; May 2; Sp. p. 161; Gaz. vol. 166; p. 30.
Rosenthal, Josef, Munich, Germany. Holder for irradiating apparatus. No. 981,948; Jan. 17; Sp. p. 3947; Gaz. vol. 162; p. 665.
Rosenthal, Pierre. (See Berthelot and Rosenthal.)
Rosentreter, Albert J., Boonton, N. J. Door closer and check. No. 980,342; Jan. 3; Sp. p. 324; Gaz. vol. 162; p. 58.
Rosenveesen, Sam, *et al.* (See Pascal, Israel, assignor.)
Rosenwasser, Morris, New York, N. Y. Legging. No. 988,145; Mar. 28; Sp. p. 5090; Gaz. vol. 164; p. 903.
Rosenwasser, Morris, New York, N. Y. Legging. No. 994,277; June 6; Sp. p. 363; Gaz. vol. 167; p. 62.
Rosenzweig, Carl, Vienna, Austria-Hungary. White enamel. No. 995,724; June 20; Sp. p. 3552; Gaz. vol. 167; p. 625.
Rosenzweig, Charles, assignor of one-half to J. Sauers, Pittsburg, Pa. Car-coupling. No. 1,002,321; Sept. 5; Sp. p. 315; Gaz. vol. 170; p. 44.
Rosenzweig, Samuel, New York, N. Y. Window-guard. No. 988,510; Apr. 4; Sp. p. 462; Gaz. vol. 165; p. 75.
Roser, Jacob A., Le Gore, Md. Fodder-machine. No. 1,003,803; Sept. 19; Sp. p. 3517; Gaz. vol. 170; p. 626.
Rosewarne, Richard E., Covington, Ky., assignor to The Miller, Du Brul & Peters Manufacturing Company, Cincinnati, Ohio. Reversing-gearing. No. 981,005; Jan. 10; Sp. p. 1908; Gaz. vol. 162; p. 315.
Rosine, Conrad. (See Martin and Rosine.)
Rosner, Rudolf, Madison, Wis. Gearing. No. 985,941; Mar. 7; Sp. p. 395; Gaz. vol. 164; p. 63.
Ross, Ashton D., Fitchburg, Mass. Apparatus for making egg-shakes. No. 1,001,451; Aug. 22; Sp. p. 4831; Gaz. vol. 169; p. 871.
Ross, Beauregard, *et al.* (See Ross, Harry B., assignor.)
Ross, Charles. (See Strawmeyer, Charles F., assignor.)
Ross, Charles, assignor to Blair Horse Collar Company, Blair, Nebr. Horse-collar. No. 981,006; Jan. 10; Sp. p. 1910; Gaz. vol. 162; p. 316.
Ross, Charles B., Greenleaf, Kans. Valve-gear. No. 1,012,711; Dec. 26; Sp. p. 5128; Gaz. vol. 173; p. 919.
Ross, Charles S. (See Seeley and Ross.)
Ross, Charley C., Roswell, N. Mex. Rail-joint. No. 984,492; Feb. 14; Sp. p. 2662; Gaz. vol. 163; p. 448.
Ross, Daniel C., Toledo, Ohio. Clothes-rack. No. 986,087; Mar. 7; Sp. p. 706; Gaz. vol. 164; p. 113.
Ross, David E., Brookston, assignor to The Ross Gear & Tool Company, La Fayette, Ind. Worm-drive and compensating gearing. No. 999,876; Aug. 8; Sp. p. 1354; Gaz. vol. 169; p. 261.
Ross, Edward T., and F. G. Veatch, San Francisco, Cal. Animal-trap. No. 995,095; June 13; Sp. p. 2198; Gaz. vol. 167; p. 382.
Ross, Edwin B. (See Hanlin and Ross.)
Ross Gear & Tool Company, The. (See Ross, David E., assignor.)
Ross, George, New York, N. Y. Awning. No. 984,027; Feb. 14; Sp. p. 1698; Gaz. vol. 163; p. 292.
Ross, George G., Bladen, Nebr. Cistern. No. 992,598; May 16; Sp. p. 3821; Gaz. vol. 166; p. 680.
Ross, Harry B., Denver, Colo. Mechanism for transmitting motion. No. 989,427; Apr. 11; Sp. p. 2406; Gaz. vol. 165; p. 406.
Ross, Harry B., Seattle, Wash. Cutter-head-securing device. No. 1,004,203; Sept. 26; Sp. p. 4480; Gaz. vol. 170; p. 793.
Ross, Harry B., assignor of one-third to W. O. Temple and one-third to B. Ross, Denver, Colo. Internal-combustion engine. No. 1,006,132; Oct. 17; Sp. p. 3429; Gaz. vol. 171; p. 609.
Ross, Harry B. and R. M., assignors of one-half to H. B. Northrop, Denver, Colo. Mechanism for transmitting motion. No. 989,426; Apr. 11; Sp. p. 2401; Gaz. vol. 165; p. 406.
Ross, James A., Boston, Mass. Wall-paper. No. 1,009,790; Nov. 28; Sp. p. 4780; Gaz. vol. 172; p. 865.
Ross, James C., Colorado Springs, Colo. Treating elaterite. No. 984,240; Feb. 14; Sp. p. 2150; Gaz. vol. 163; p. 365.
Ross, James J., *et al.* (See Everett, Edward A., assignor.)
Ross, James J., Milwaukee, Wis. Combination-oven. No. 980,680; Jan. 3; Sp. p. 1097; Gaz. vol. 162; p. 175.
Ross, John A., Chicago, Ill. Cement-block machine. No. 1,005,884; Oct. 17; Sp. p. 2885; Gaz. vol. 171; p. 523.
Ross, John A., assignor of one-third to Butterfield Live Stock Company, Ltd., and one-third to W. N. McConnel, Weiser, Idaho. Sheep-hook. No. 992,906; May 23; Sp. p. 4456; Gaz. vol. 166; p. 817.
Ross, John C., Goldburg, Idaho. Fruit-picker. No. 1,005,476; Oct. 10; Sp. p. 1972; Gaz. vol. 171; p. 348.
Ross, John C., assignor of one-half to T. J. Casey, Butte, Mont. Washing-machine. No. 994,954; June 13; Sp. p. 1898; Gaz. vol. 167; p. 334.
Ross, John C., Akron, assignor to The Ohio Grease Lubricant Company, Loudonville, Ohio. Grease-lubricator. No. 1,004,910; Oct. 3; Sp. p. 799; Gaz. vol. 171; p. 128.
Ross, John O., and A. H. Blackburn, assignors to The Green Fuel Economizer Company, Matteawan, N. Y. Apparatus for drying coated paper. No. 998,206; July 18; Sp. p. 3472; Gaz. vol. 168; p. 625.
Ross, Levi J., and W. C. Gowin, Watertown, S. D. Eave-trough. No. 1,005,885; Oct. 17; Sp. p. 2887; Gaz. vol. 171; p. 524.
Ross, Lewis P., Standish, N. Y., assignor of one-half to Northern Iron Company. Kiln. No. 1,004,085; Sept. 26; Sp. p. 4216; Gaz. vol. 170; p. 752.
Ross, Malcolm C., Philipsburg, Mont. Locomotive-feed-water heater. No. 989,055; Apr. 11; Sp. p. 1607; Gaz. vol. 165; p. 282.
Ross-Meehan Foundry Company. (See Potts, Albert B., assignor.)
Ross, Oscar A., assignor, by mesne assignments, to A. H. Meads, Chicago, Ill. Electric-arc lamp. No. 994,427; June 6; Sp. p. 679; Gaz. vol. 167; p. 116.
Ross, Oscar A., assignor, by mesne assignments, to A. H. Meads, Chicago, Ill. Arc-lamp. No. 999,340; Aug. 1; Sp. p. 281; Gaz. vol. 169; p. 52.
Ross, Oscar A., assignor of one-half to C. V. Kasson, Chicago, Ill. Fender. No. 995,371; June 13; Sp. p. 2772; Gaz. vol. 167; p. 473.
Ross, Perry L., Kane, Pa. Adjustable school furniture. No. 1,008,992; Nov. 14; Sp. p. 3043; Gaz. vol. 172; p. 506.
Ross, Robert C., Wilmette, Ill. Shoe. No. 1,009,859; Nov. 28; Sp. p. 4922; Gaz. vol. 172; p. 889.
Ross, Robert J., Olive Hill, Ky., assignor of one-third to H. B. Campbell and one-third to L. C. Turley, Portsmouth, Ohio. Scoop for emptying pans. No. 1,006,407; Oct. 17; Sp. p. 4054; Gaz. vol. 171; p. 706.
Ross, Robert M. (See Ross, Harry B. and R. M.)
Ross, Samuel A., Erie, Pa. Shut-off valve. No. 995,485; June 20; Sp. p. 3032; Gaz. vol. 167; p. 540.
Ross, Scott C., *et al.*, executors. (See Alberger, Louis R.)
Ross, Stephen N., Harrisburg, Ark. Faucet-auger. No. 1,006,008; Oct. 17; Sp. p. 3151; Gaz. vol. 171; p. 566.
Ross, Thomas. (See Ross, William and T.)
Ross, Vernon, and E. S. Rhoads, Kansas City, Mo. Window-front construction. No. 1,006,408; Oct. 17; Sp. p. 4056; Gaz. vol. 171; p. 707.
Ross, Victor. (See Williams, Ahlen, and Ross.)
Ross, Warner A., Detroit, Mich. Auxiliary spring. No. 980,343; Jan. 3; Sp. p. 326; Gaz. vol. 162; p. 59.
Ross, William, Garske, N. D. Belt-shifter. No. 1,013,065; Dec. 26; Sp. p. 5940; Gaz. vol. 173; p. 1040.
Ross, William and T., Glasgow, Scotland. Crucible-lid. No. 992,599; May 16; Sp. p. 3823; Gaz. vol. 166; p. 681.
Ross, William E., Duquoin, Ill. Window-pane-securing strip. No. 1,001,169; Aug. 22; Sp. p. 4234; Gaz. vol. 169; p. 775.
Ross, William G., Chicago, Ill. Turbine. No. 990,781; Apr. 25; Sp. p. 5422; Gaz. vol. 165; p. 935.

Alphabetical list of patentees—Continued.

Rossbach-Rousset, Fritz, Tempelhof, near Berlin, Germany. Apparatus for controlling gas-burners from a distance. No. 992,907; May 23; Sp. p. 4458; Gaz. vol. 166; p. 817.
Rossell, Joseph, Atlantic City, N. J. Scribing device. No. 988,950; Apr. 4; Sp. p. 1378; Gaz. vol. 165; p. 221.
Rosselle, George T., Newport, Ky., assignor to The Incandescent Light & Stove Company, Cincinnati, Ohio. Generator for hydrocarbon systems. No. 1,002,871; Sept. 12; Sp. p. 1551; Gaz. vol. 170; p. 270.
Rosser, Claud, Evangeline, La. Nut-lock. No. 1,003,804; Sept. 19; Sp. p. 3519; Gaz. vol. 170; p. 626.
Rosset, Otto, A. Schwenk, Freiburg, and V. Kutter, Wiesbaden, Germany. Safety screw-joint. No. 1,003,513; Sept. 19; Sp. p. 2879; Gaz. vol. 170; p. 526.
Rossi, Auguste J., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Treating metallic bodies. No. 986,504; Mar. 14; Sp. p. 1592; Gaz. vol. 164; p. 283.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Producing alloys of titanium with other metals or the like. No. 986,505; Mar. 14; Sp. p. 1594; Gaz. vol. 164; p. 284.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Metallic body. No. 986,645; Mar. 14; Sp. p. 1892; Gaz. vol. 164; p. 334.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Treating ferro metals. No. 1,003,805; Sept. 19; Sp. p. 3520; Gaz. vol. 170; p. 626.
Rossi, Auguste J., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Article composed of titanium and nickel alloyed together and producing the same. No. 1,003,806; Sept. 19; Sp. p. 3522; Gaz. vol. 170; p. 626.
Rossi, Enrico, Triest, Austria-Hungary. Adjustable burner for liquid fuel. No. 981,119; Jan. 10; Sp. p. 2158; Gaz. vol. 162; p. 356.
Rossier, Louis P., Garberville, Cal. Funnel-attachment device for bottle-necks. No. 989,428; Apr. 11; Sp. p. 2411; Gaz. vol. 165; p. 407.
Rossignol, Joseph R., Savannah, Ga. Eletcric switch. No. 988,821; Apr. 4; Sp. p. 1133; Gaz. vol. 165; p. 181.
Rossin, Herman G., Roseton, N. Y. Conveyer. No. 988,822; Apr. 4; Sp. p. 1134; Gaz. vol. 165; p. 181.
Rossiter, Lewis J., Redfern, near Sydney, New South Wales, Australia. Tobacco-pipe. No. 1,009,860; Nov. 28; Sp. p. 4923; Gaz. vol. 172; p. 889.
Rossiter, William M., Sunbury, Pa. Dye-tub apparatus. No. 1,006,502; Oct. 24; Sp. p. 4292; Gaz. vol. 171; p. 770.
Rössner, Heinrich, and W. Cotton, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Manufacturing new organic fatty-acid compounds. No. 988,032; Mar. 28; Sp. p. 4871; Gaz. vol. 164; p. 866.
Rost, Carl, Dresden, Germany. Feeding device for bon-bon-stamping presses. No. 1,001,452; Aug. 22; Sp. p. 4833; Gaz. vol. 169; p. 871.
Rost, Carl M., Dresden, Germany. Tablet-making machine. No. 1,004,303; Sept. 26; Sp. p. 4669; Gaz. vol. 170; p. 826.
Rost, Herman, Sturgis, Mich. Band-saw guide. No. 998,399; July 18; Sp. p. 3933; Gaz. vol. 168; p. 697.
Rostand Mfg. Company, The. (See Landine, Peter N., assignor.)
Rosvold, John A., deceased, Nome, Alaska; J. B. Jakobsen administrator. Sea-anchor. No. 990,596; Apr. 25; Sp. p. 5013; Gaz. vol. 165; p. 873.
Rotarius, Joseph, Kawkawlin, Mich. Tile-machine. No. 995,293; June 13; Sp. p. 2572; Gaz. vol. 167; p. 445.
Rotary Meter Company. (See Reeve, Sidney A., assignor.)
Rotax Motor and Cycle Company. (See Hilton and Coppell, assignors.)
Rote, Charles V., assignor to M. P. Holman, Lancaster, Pa. Car-brake. No. 1,006,682; Oct. 24; Sp. p. 4683; Gaz. vol. 171; p. 834.
Roten, Owen Y., Winnsboro, Tex. Portable and foldable support for weighing-scales. No. 999,594; Aug. 1; Sp. p. 788; Gaz. vol. 169; p. 137.
Rotex Manufacturing Company, The. (See Stableford, William, assignor.)
Roth, Anthony, Jr., New Brunswick, N. J. Horseshoe. No. 986,220; Mar. 7; Sp. p. 960; Gaz. vol. 164; p. 156.
Roth, Carl, Zehlendorf, near Berlin, Germany. Turbine. No. 984,493; Feb. 14; Sp. p. 2664; Gaz. vol. 163; p. 449.
Roth, Edward L., *et al.* (See Eisenbeis, Louis P., assignor.)
Roth, Homer A., *et al.* (See Eisenbeis, Louis P., assignor.)
Roth, Jay A. (See McCaughey, Clarence H., assignor.)
Roth, Joseph A. (See Futterknecht, Roth, and Maenche.)
Roth, Joseph C. (See Hill, Roth, and Hartfield.)
Roth, Joseph C., O. C. Hartfield, and E. M. Hill, Buffalo, N. Y. Tapping device. No. 983,259; Jan. 31; Sp. p. 6744; Gaz. vol. 162; p. 1169.
Roth, Karl. (See Williams and Roth.)
Roth Manufacturing Company. (See Gold, Egbert H., assignor.)
Roth, Philip A., Milwaukee, Wis. Bowling-alley. No. 990,296; Apr. 25; Sp. p. 4311; Gaz. vol. 165; p. 767.
Rothamel, Samuel. (See McCready and Rothamel.)
Rothchild, Joseph, New York, and H. S. Conover, Brooklyn, assignors to The Rothchild Pressure Specialties Company, Canton, N. Y. Float-valve. No. 1,007,009; Oct. 24; Sp. p. 5396; Gaz. vol. 171; p. 946.
Rothchild Pressure Specialties Company, The. (See Rothchild and Conover, assignors.)
Rothe, Alfred. (See Reintanz and Rothe.)
Rothe, William F., assignor to Wm. F. Rothe and Company East St. Louis, Ill. Carbureter. No. 997,417; July 11; Sp. p. 1704; Gaz. vol. 168; p. 310.
Rothenberg, William F., Denver, Colo. Fan. No. 995,725; June 20; Sp. p. 3553; Gaz. vol. 167; p. 625.
Rothermel, W. E. (See Matthews, Edgar M., assignor.)
Rothert, Edward H., Leavenworth, Wash. Reduction-furnace. No. 1,007,606; Oct. 31; Sp. p. 6716; Gaz. vol. 171; p. 1209.
Rothgery, Leopold, Detroit, Mich. Rowlock. No. 1,000,198; Aug. 8; Sp. p. 2090; Gaz. vol. 169; p. 372.
Rothlisberger, Erneste, Portsmouth, assignor of one-tenth to L. W. W. Brockenbrough and three-tenths to S. Scott, Norfolk, Va. Relief-valve. No. 989,809; Apr. 18; Sp. p. 3269; Gaz. vol. 165; p. 569.
Rothoff, Albin C. (See Norin and Rothoff.)
Rothschild, Sigmund K., Detroit, Mich. Holder for telephone-receivers and the like. No. 983,570; Feb. 7; Sp. p. 692; Gaz. vol. 163; p. 107.
Rotoplunge Pump Company, The. (See Vincent, William J., assignor.)
Rotoplunge Pump Company, The. (See Vincent and Harrison, assignors.)
Rottenthaler, Miklós, New York, N. Y. Jewel-setting tool. No. 1,009,582; Nov. 21; Sp. p. 4356; Gaz. vol. 172; p. 750.
Rotter, Anton, assignor to F. Baum & Co., Rorschach, Switzerland. Winding-machine. No. 998,398; July 18; Sp. p. 3931; Gaz. vol. 168; p. 696.
Rotter, Max, assignor to Allis-Chalmers Company, Milwaukee, Wis. Steam-turbine. No. 1,002,813; Sept. 5; Sp. p. 1391; Gaz. vol. 170; p. 212.
Rotter, Max, assignor to Allis-Chalmers Company, Milwaukee, Wis. Shaft-coupling. No. 1,007,312; Oct. 31; Sp. p. 6070; Gaz. vol. 171; p. 1108.
Rottger, Henry J. P., Jr., New York, N. Y. Cleaning-pad holder for hats. No. 982,534; Jan. 24; Sp. p. 5209; Gaz. vol. 162; p. 898.
Röttges, Hans, Bremen, Germany. Aeroplane. No. 1,011,083; Dec. 5; Sp. p. 1498; Gaz. vol. 173; p. 237.
Rottman, George, Brooklyn, N. Y. Mothproof garment-bag. No. 995,571; June 20; Sp. p. 3222; Gaz. vol. 167; p. 570.
Rottmer, Henry E., Washington, D. C. Boat-detaching appliance. No. 998,263; July 18; Sp. p. 3606; Gaz. vol. 168; p. 647.
Rotz, John B., Fort Loudon, Pa. Butter-mold. No. 1,007,045; Oct. 24; Sp. p. 5465; Gaz. vol. 171; p. 958.
Rouiss, Frederick, Jersey City, N. J. Steering mechanism. No. 991,545; May 9; Sp. p. 1547; Gaz. vol. 166; p. 286.
Rouiss, Frederick, Jersey City, N. J. Rudder-operating mechanism. No. 1,002,179; Aug. 29; Sp. p. 6330; Gaz. vol. 169; p. 1144.
Roumillat, John L., *et al.* (See Bryant, William A., assignor.)
Round Crest Orchard Heater Company, The. (See Shaeffer, Charles D., assignor.)
Round, William H., Pittsburg, Pa. Rail-joint chair. No. 986,863; Mar. 14; Sp. p. 2351; Gaz. vol. 164; p. 408.
Rounds, David B., Los Angeles, Cal. Butt-chisel and gage. No. 1,007,607; Oct. 31; Sp. p. 6718; Gaz. vol. 171; p. 1209.
Rountree, Linvill L., Colton, Cal. Solar heater. No. 1,003,514; Sept. 19; Sp. p. 2880; Gaz. vol. 170; p. 526.
Rouquaud, Jean, Paris, France. Steam or hot-water circulating apparatus. No. 1,008,285; Nov. 7; Sp. p. 1380; Gaz. vol. 172; p. 225.
Rourke, Patrick H., *et al.* (See Cave, Frederick C., assignor.)
Rourke, William E. (See Miller, Oram E., assignor.)
Rouse, George E., Marley, Ill. Baling-press. No. 1,004,911; Oct. 3; Sp. p. 801; Gaz. vol. 171; p. 128.
Rouse, Richard, Jr., Elizabeth, N. J., assignor to Boynton Furnace Company, New York, N. Y. Fire-pot. No. 986,864; Mar. 14; Sp. p. 2352; Gaz. vol. 164; p. 408.
Rouse, Richard, Jr., Newark, N. J., assignor to Boynton Furnace Company, New York, N. Y. Fire-pot. No. 1,006,503; Oct. 24; Sp. p. 4295; Gaz. vol. 171; p. 770.
Roush, Charles F. (See Valiquett and Roush.)
Roush, James A., Homer City, Pa. Miner's lamp. No. 995,909; June 20; Sp. p. 3968; Gaz. vol. 167; p. 689.
Rousseau, Lawrence C., Waxahachie, Tex. Railway-switch. No. 983,771; Feb. 7; Sp. p. 1097; Gaz. vol. 163; p. 176.
Rousseau, Simeon J. (See Noon, William J., assignor.)
Roussel, Sidney P. (See Sevin and Roussel.)
Roussey, Amos J., Fort Wayne, assignor of one-third to W. F. McLallen, Columbia City, Ind. Inflated tire. No. 999,402; Aug. 1; Sp. p. 417; Gaz. vol. 169; p. 74.

Alphabetical list of patentees—Continued.

Routery, Herbert C., assignor to Myers Manufacturing Company, Inc., Los Angeles, Cal. Lady's and miss's garment. No. 990,201; Apr. 18; Sp. p. 4081; Gaz. vol. 165; p. 701.
Routery, Herbert C., assignor to E. B. and K. M. Myers, Los Angeles, Cal. Combination athletic suit. No. 989,193; Apr. 11; Sp. p. 1886; Gaz. vol. 165; p. 328.
Routhledge, William, *et al.* (See Jordan, James, assignor.)
Rouvel, George W., Napa, Cal. Pulverizing apparatus. No. 990,167; Apr. 18; Sp. p. 3999; Gaz. vol. 165; p. 690.
Rovetti, Joseph E., Barre, Vt. Bottle-corking machine. No. 993,199; May 23; Sp. p. 5078; Gaz. vol. 166; p. 915.
Rowbotham, John, deceased, Montgomery county, Pa.; M. and E. Hesser, executors. Lining the working chambers of internally-irregularly-shaped casings. No. 1,012,920; Dec. 26; Sp. p. 5613; Gaz. vol. 173; p. 990.
Rowbotham, Walter, Montreal, Quebec, Canada. Apparatus for cleaning carpets and like fabrics. No. 1,007,799; Nov. 7; Sp. p. 343; Gaz. vol. 172; p. 54.
Rowbotham, Walter, Montreal, Quebec, Canada. Apparatus for cleaning carpets and like fabrics. No. 1,007,800; Nov. 7; Sp. p. 344; Gaz. vol. 172; p. 54.
Rowe, Earl O. (See Maib and Rowe.)
Rowe, Emmet A., Oakland, Cal. Washboard attachment. No. 1,002,456; Sept. 5; Sp. p. 626; Gaz. vol. 170; p. 90.
Rowe, Harry B., Wilmington, Del. Smoke-consumer. No. 1,010,807; Dec. 5; Sp. p. 903; Gaz. vol. 173; p. 142.
Rowe, James, Chicago, Ill. Tube-boring machine. No. 995,572; June 20; Sp. p. 3224; Gaz. vol. 167; p. 570.
Rowe, James, Chicago, Ill. Tube-boring appliance. No. 1,002,457; Sept. 5; Sp. p. 628; Gaz. vol. 170; p. 90.
Rowe, John A. (See Rowe, William E. and J. A.)
Rowe, John B., Lansing, Kans. Car-fender. No. 985,374; Feb. 28; Sp. p. 4578; Gaz. vol. 163; p. 821.
Rowe, John S., West Hartford, Conn. Desk-tray. No. 981,949; Jan. 17; Sp. p. 3989; Gaz. vol. 162; p. 666.
Rowe, Wallace H. (See Rietzel, Adolph F., assignor.)
Rowe, William E. and J. A., Orchard, Nebr. Vent-stopper. No. 994,691; June 6; Sp. p. 1257; Gaz. vol. 167; p. 204.
Rowe, William E. and J. A., Orchard, Nebr. Carpet-stretcher. No. 1,006,409; Oct. 17; Sp. p. 4058; Gaz. vol. 171; p. 707.
Rowe, William J. (See Riddle and Rowe.)
Rowell, George B., San Bernardino, assignor of one-half to J. B. Eldridge, San Bernardino county, Cal. Wire spring-stem pessary. No. 982,996; Jan. 31; Sp. p. 6194; Gaz. vol. 162; p. 1080.
Rowell, George W., Portales, N. Mex. Resilient tire. No. 995,573; June 20; Sp. p. 3229; Gaz. vol. 167; p. 571.
Rowell, Herbert G., Auburn, Me., assignor of one-half to D. W. Howland, Brookline, Mass. Mop. No. 1,008,071; Nov. 7; Sp. p. 914; Gaz. vol. 172; p. 147.
Rowell, Theodore B., Beaver Dam, Wis. Seeder and cultivator tooth. No. 999,877; Aug. 8; Sp. p. 1356; Gaz. vol. 169; p. 262.
Röwer, Fritz. (See Röwer, Heinrich and F.)
Röwer, Heinrich and F., Blender, Germany. Plow. No. 996,145; June 27; Sp. p. 4451; Gaz. vol. 167; p. 805.
Rowland, Charles O., Chicago, Ill. Aerial vessel. No. 997,856; July 11; Sp. p. 2684; Gaz. vol. 168; p. 461.
Rowland, Henry. (See Bagalio, Andrew A., assignor.)
Rowland, John D., Birmingham, England. Security-bolt for vehicle wheel-tires. No. 1,001,891; Aug. 29; Sp. p. 5767; Gaz. vol. 169; p. 1051.
Rowland, T. H. (See Mann, Horace A., assignor.)
Rowland, Thad H., Oberlin, Ohio. Disinfecting device. No. 996,797; July 4; Sp. p. 393; Gaz. vol. 168; p. 66.
Rowland, Ward B., and R. B. Grover, Pasadena, Cal. Weighing device. No. 990,597; Apr. 25; Sp. p. 5014; Gaz. vol. 165; p. 873.
Rowland, William C., Philadelphia, Pa. Extensible hem. No. 982,878; Jan. 31; Sp. p. 5942; Gaz. vol. 162; p. 1042.
Rowlands, Thomas. (See Young and Rowlands.)
Rowles, John T. (See Carroll and Rowles.)
Rowley, Aaron V. (See Niedermayr, Georg, assignor.)
Rowley, Benjamin J., Twisp, Wash. Fish-screen for water-chutes. No. 988,033; Mar. 28; Sp. p. 4873; Gaz. vol. 164; p. 866.
Rowley, Daniel H., Soda Springs, Idaho. Railway-signal. No. 985,208; Feb. 28; Sp. p. 4223; Gaz. vol. 163; p. 766.
Rowley, Patrick H. (See Hulme and Rowley.)
Rowley, Robert, New York, N. Y. Tire-building machine. No. 990,392; Apr. 25; Sp. p. 4543; Gaz. vol. 165; p. 802.
Rowley, Robert, New York, N. Y., and J. J. Coomber, Jersey City, N. J. Tire-shoe-building apparatus. No. 991,458; May 2; Sp. p. 1347; Gaz. vol. 166; p. 223.
Rowley, Robert, New York, N. Y., and J. J. Coomber, Jersey City, N. J. Tire-shoe. No. 991,894; May 9; Sp. p. 2271; Gaz. vol. 166; p. 405.
Rowley, Walter J., and J. G. Albright, Pittsburgh, Pa. Shaving-brush. No. 1,009,583; Nov. 21; Sp. p. 4358; Gaz. vol. 172; p. 750.
Rowman, James M. (See Davison, Kester, and Rowman.)
Rowntree, Harold, Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Car-locking mechanism. No. 1,001,987; Aug. 29; Sp. p. 5980; Gaz. vol. 169; p. 1083.
Rowntree, Harold, Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Cushion mechanism for pneumatic door-control devices. No. 1,001,988; Aug. 29; Sp. p. 5983; Gaz. vol. 169; p. 1083.
Rowntree, Harold, Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Door-operating mechanism. No. 1,001,989; Aug. 29; Sp. p. 5985; Gaz. vol. 169; p. 1083.
Rowntree, Harold, Chicago, Ill., assignor, by mesne assignments, to National Pneumatic Company. Door-operating mechanism. No. 1,002,180; Aug. 29; Sp. p. 6332; Gaz. vol. 169; p. 1144.
Rowntree, Harold, and P. R. Forman, Chicago, Ill., assignors, by mesne assignments, to National Pneumatic Company. Safety mechanism for power-operated doors. No. 1,001,990; Aug. 29; Sp. p. 5988; Gaz. vol. 169; p. 1084.
Rowse, Frank J., Pawtucket, R. I. Coin-actuated mechanism. No. 992,258; May 16; Sp. p. 3065; Gaz. vol. 166; p. 559.
Rowse, Frank J., Pawtucket, R. I. Coin-controlled ticket-vending machine. No. 995,988; June 20; Sp. p. 4115; Gaz. vol. 167; p. 716.
Rowse, John A., Newquay, assignor of one-half to The Dental Manufacturing Company, Limited, London, England. Dental impression-tray. No. 981,476; Jan. 10; Sp. p. 2963; Gaz. vol. 162; p. 481.
Rowton, George T., Jackson, Miss. Pneumatic signaling system. No. 1,006,289; Oct. 17; Sp. p. 3804; Gaz. vol. 171; p. 667.
Roy, Alexander, San Francisco, assignor of one-half to W. A. Houts, Oakland, Cal. Refining smelter fume products. No. 996,146; June 27; Sp. p. 4452; Gaz. vol. 167; p. 805.
Roy, Arthur C. J., Providence, R. I. Sash-fastener. No. 999,595; Aug. 1; Sp. p. 789; Gaz. vol. 169; p. 137.
Roy, Edwin F., Detroit, and T. Argleben, Dearborn, Mich. Spraying-torch. No. 1,008,733; Nov. 14; Sp. p. 2503; Gaz. vol. 172; p. 421.
Roy, Fred C. (See Buck and Todd, assignors.)
Roy, Roland F. (See McCone and Roy.)
Royal Equipment Company, The. (See Kelley, Edward F., assignor.)
Royal Specialty Company, The. (See Sands, Harry Z., assignor.)
Royal Typewriter Company. (See Hess, Edward B., assignor.)
Royal Typewriter Company. (See McBirney, James F., assignor.)
Royal Typewriter Company. (See Myers, Lewis C., assignor.)
Royal Typewriter Company. (See Sheehan, Edward J., assignor.)
Royal Typewriter Company. (See Stewart, James S., assignor.)
Royal, William H., Philadelphia, Pa. Shuttle-box-actuating mechanism. No. 997,009; July 4; Sp. p. 890; Gaz. vol. 168; p. 141.
Royals, Junius F., Godwin, N. C. Swingletree. No. 984,028; Feb. 14; Sp. p. 1699; Gaz. vol. 163; p. 292.
Royce, Edward G., *et al.*, trustees. (See Wright, George S., assignor.)
Royer, Emmans A. H., Millmont, Pa. Stove. No. 993,716; May 30; Sp. p. 6218; Gaz. vol. 166; p. 1124.
Royer, George F. (See Kelly and Royer.)
Royer, John H., Dakota, Ill. Pocket match-safe. No. 1,004,204; Sept. 26; Sp. p. 4481; Gaz. vol. 170; p. 793.
Royle, Vernon, Paterson, N. J. Apparatus for registering printing-plates. No. 983,648; Feb. 7; Sp. p. 843; Gaz. vol. 163; p. 135.
Roys, Lawrence P. (See Kenyon and Roys.)
Royse, Robert L., Martinsville, Ind. Amalgamator-riffle. No. 1,013,066; Dec. 26; Sp. p. 5942; Gaz. vol. 173; p. 1040.
Royston, Ernest R., Oxton, Birkenhead, assignor to International Salt Company Limited, London, England. Treating salt. No. 989,056; Apr. 11; Sp. p. 1608; Gaz. vol. 165; p. 282.
Royston, Ernest R., Liverpool, assignor to International Salt Company Limited, London, England. Melting and purifying of salt and other substances. No. 997,857; July 11; Sp. p. 2688; Gaz. vol. 168; p. 462.
Rozboril, Matthew, and P. Bursky, Binghamton, N. Y. Airship. No. 980,840; Jan. 3; Sp. p. 1413; Gaz. vol. 162; p. 226.
Rozier, Welton H., and S. C. Igou, assignors to Motor Car and Device Company, St. Louis, Mo. Starting device for internal-combustion engines. No. 989,057; Apr. 11; Sp. p. 1610; Gaz. vol. 165; p. 282.
Ruark, William, assignor of one-half to J. W. Carter, Kansas City, Kans. Sanitary floor-drain. No. 980,681; Jan. 3; Sp. p. 1099; Gaz. vol. 162; p. 175.
Rubado, Joseph, Chicago, Ill. Gas-heater. No. 982,879; Jan. 31; Sp. p. 5943; Gaz. vol. 162; p. 1042.
Rubber & Celluloid Harness Trimming Co. (See Albright, Andrew, Jr., assignor.)
Rubber Patents Limited of Orb Works, The. (See Turner, John, assignor.)
Rübel, Walter, Berlin, Germany. Magnesium-zinc alloy. No. 982,022; Jan. 17; Sp. p. 4140; Gaz. vol. 162; p. 691.

Alphabetical list of patentees—Continued.

Rubello, José, and J. Santi, Mexico, Mexico. Reinforced concrete construction for posts and columns. No. 987,172; Mar. 21; Sp. p. 2982; Gaz. vol. 164; p. 541.
Rubens, Julius J., Atlanta, Ga. Gaming device. No. 983,315; Feb. 7; Sp. p. 122; Gaz. vol. 163; p. 22.
Rubes, Ernest, assignor of one-half to L. Rubes, Brooklyn, N. Y. Horn and other article constructed from flexible tubing. No. 992,259; May 16; Sp. p. 3074; Gaz. vol. 166; p. 560.
Rubes, Louis. (See Rubes, Ernest, assignor.)
Rubin, Constantino G., Mexico, Mexico. Device for taking garment measurements. No. 996,281; June 27; Sp. p. 4798; Gaz. vol. 167; p. 850.
Rubin, Max, East Orange, N. J. Garment-buckle. No. 985,843; Mar. 7; Sp. p. 181; Gaz. vol. 164; p. 29.
Rubin, Max, East Orange, N. J. Garment-buckle. No. 993,109; May 23; Sp. p. 4904; Gaz. vol. 166; p. 888.
Rubin, Mayer, Hammond, Ind. Feed-bag for horses. No. 1,009,861; Nov. 28; Sp. p. 4924; Gaz. vol. 172; p. 889.
Ruch, Peter B., University Place, Nebr. Fountain-brush. No. 1,007,492; Oct. 31; Sp. p. 6461; Gaz. vol. 171; p. 1170.
Rucker, Benjamin P., Charlotte, N. C., assignor to General Electric Company. Feeder voltage-regulator. No. 1,011,855; Dec. 12; Sp. p. 3271; Gaz. vol. 173; p. 543.
Rucker, Martin D. (See Harris and Rucker.)
Ruckle, Wm. T., *et al.* (See Urbach, John T., assignor.)
Ruckstinat, Johannes, Toronto, Ontario, Canada. Outlet and strainer for washbasins. No. 1,009,862; Nov. 28; Sp. p. 4926; Gaz. vol. 172; p. 890.
Rudd, Peter, Chicago, Ill. Floor-scraping machine. No. 989,726; Apr. 18; Sp. p. 3067; Gaz. vol. 165; p. 540.
Rudder, Frank P., Derby, England. Refuse-destructor. No. 986,594; Mar. 14; Sp. p. 1781; Gaz. vol. 164; p. 315.
Rudder, Frank P., Derby, England. Furnace. No. 993,200; May 23; Sp. p. 5080; Gaz. vol. 166; p. 916.
Ruddy, Anthony J., *et al.* (See Howard, John, assignor.)
Rude, Gilbert T., Seattle, Wash. Street-indicator. No. 993,201; May 23; Sp. p. 5082; Gaz. vol. 166; p. 916.
Rude, James M., assignor to The Steel Fireproof Construction Company, Covington, Ky. Cellular steel. No. 1,000,758; Aug. 15; Sp. p. 3325; Gaz. vol. 169; p. 600.
Rudge-Whitworth Limited. (See Blair, William, assignor.)
Rudkiewicz, Clarence, Detroit, Mich. Outlet-box. No. 982,535; Jan. 24; Sp. p. 5210; Gaz. vol. 162; p. 899.
Rudolf, Charles, Chicago, Ill. Ignition device. No. 980,441; Jan. 3; Sp. p. 547; Gaz. vol. 162; p. 92.
Rudolf, Paul. (See Lecoeur and Rudolf.)
Rudolph, Alexander J., Wilmette, Ill. Index-card drawer. No. 993,881; May 30; Sp. p. 6547; Gaz. vol. 166; p. 1180.
Rudolph, Charles, Paris, France, assignor to C. T. Schoen, Philadelphia, Pa. Strengthening flexible metallic pipes. No. 1,000,627; Aug. 15; Sp. p. 3059; Gaz. vol. 169; p. 556.
Rudolph, Franklin. (See Xavier, Schenck, and Rudolph.)
Rudolph, Franklin, Chicago, Ill., assignor to American Can Company, New York, N. Y. Paper-body can or receptacle. No. 992,388; May 16; Sp. p. 3369; Gaz. vol. 166; p. 607.
Rudolph Wurlitzer Company, The. (See De Kleist, Eugene, assignor.)
Rudolph Wurlitzer Company, The. (See Julliot, Djalma, assignor.)
Rudolph Wurlitzer Company. (See Starke, Emil O., assignor.)
Rüegg, Johann, Feldbach, near Zurich, Switzerland. Loom-shuttle. No. 984,971; Feb. 21; Sp. p. 3681; Gaz. vol. 163; p. 650.
Ruehs, Charles L., Chicago, Ill. Ice-pick. No. 1,008,734; Nov. 14; Sp. p. 2504; Gaz. vol. 172; p. 421.
Ruehs, Charles L., Chicago, Ill. Sanitary-cup holder. No. 1,010,320; Nov. 28; Sp. p. 5852; Gaz. vol. 172; p. 1042.
Ruff, Reuben A., Haledon, N. J. Poultry-brooder. No. 1,005,886; Oct. 17; Sp. p. 2888; Gaz. vol. 171; p. 524.
Ruffin, John A. (See Going and Ruffin.)
Ruffner, William S., Pleasantville, Ohio. Husking-truck and fodder-binder. No. 981,477; Jan. 10; Sp. p. 2964; Gaz. vol. 162; p. 481.
Rufli, Herman J., assignor to The American Paving and Manufacturing Company of Indianapolis, Indianapolis, Ind. Apparatus for preparing paving material. No. 990,782; Apr. 25; Sp. p. 5425; Gaz. vol. 165; p. 935.
Ruggles, Constant M. (See Ruggles, Harry A., assignor.)
Ruggles, Bert A., Grand Rapids, Mich. Chair. No. 984,709; Feb. 21; Sp. p. 3175; Gaz. vol. 163; p. 562.
Ruggles, Charles H. (See Churchill, Thomas H., assignor.)
Ruggles, Charles H., Hope, Ark. Log and lumber car. No. 986,315; Mar. 7; Sp. p. 1165; Gaz. vol. 164; p. 188.
Ruggles, Frederick W., Hudson, Mass. Poultry drinking-fountain. No. 986,945; Mar. 14; Sp. p. 2518; Gaz. vol. 164; p. 435.
Ruggles, Harry A., Kansas City, Mo., assignor of two-thirds to C. M. Ruggles, St. Joseph, Mich. Combined mop head and wringer. No. 1,005,887; Oct. 17; Sp. p. 2890; Gaz. vol. 171; p. 524.
Ruggles, Hiram C., Pasadena, Cal. Furnace. No. 989,810; Apr. 18; Sp. p. 3263; Gaz. vol. 165; p. 570.
Ruggles, Hiram C., Pasadena, Cal. Hydrocarbon-burner. No. 1,001,557; Aug. 22; Sp. p. 5023; Gaz. vol. 169; p. 906.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Telephone and telegraph system. No. 981,120; Jan. 10; Sp. p. 2159; Gaz. vol. 162; p. 356.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Substation-selector. No. 995,294; June 13; Sp. p. 2574; Gaz. vol. 167; p. 446.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Telephone system. No. 998,040; July 18; Sp. p. 3121; Gaz. vol. 168; p. 568.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Electromagnet. No. 998,552; July 18; Sp. p. 4222; Gaz. vol. 168; p. 748.
Rugh, Harry O., assignor to Sandwich Electric Company, Sandwich, Ill. Signaling system. No. 1,002,181; Aug. 29; Sp. p. 6336; Gaz. vol. 169; p. 1145.
Ruhl, John. (See Mertz and Ruhl.)
Ruhl, Otto, Bremen, Germany. Earthquake-proof building. No. 981,884; Jan. 17; Sp. p. 3796; Gaz. vol. 162; p. 642.
Ruhland, Ben J. (See Bialik, Paul, assignor.)
Rühling, Waldemar, Berlin, Germany. Arc-lamp. No. 1,001,453; Aug. 22; Sp. p. 4834; Gaz. vol. 169; p. 871.
Ruhm, Herman D., assignor to Ruhm Phosphate Mining Company, Mountpleasant, Tenn. Apparatus for washing and recovering fines from phosphate rock. No. 1,002,182; Aug. 29; Sp. p. 6337; Gaz. vol. 169; p. 1145.
Ruhm Phosphate Mining Company. (See Ruhm, Herman D., assignor.)
Ruhnau, Hermann, Ernsbach, Germany. Apparatus for making multiple-threaded wood-screws. No. 981,478; Jan. 10; Sp. p. 2966; Gaz. vol. 162; p. 482.
Ruiz, Louis A. (See Hutchinson, Robert H., assignor.)
Rukes, Charles F., Kansas City, Mo. Gas-generator. No. 1,001,454; Aug. 22; Sp. p. 4834; Gaz. vol. 169; p. 871.
Rule, Percy B. (See Hay and Rule.)
Rülf, Ari, Brussels, Belgium. Tool for bending pipes or figured bars. No. 992,807; May 23; Sp. p. 4227; Gaz. vol. 166; p. 780.
Rumble, Charles A., Lowville, N. Y., assignor to American Graphophone Company, Bridgeport, Conn. Attachment for phonographs. No. 991,090; May 2; Sp. p. 545; Gaz. vol. 166; p. 94.
Rumel Patents Corporation, The. (See Rumel, William, assignor.)
Rumel, William, Salt Lake City, Utah, assignor to The Rumel Patents Corporation. Insulating composition. No. 1,000,295; Aug. 8; Sp. p. 2290; Gaz. vol. 169; p. 406.
Rumford, Charles G., Jr. (See Meier and Rumford.)
Rumford, Lewis. (See Reschke and Rumford.)
Rummel, Harry U., St. Charles, Mo. Music-stand. No. 992,908; May 23; Sp. p. 4461; Gaz. vol. 166; p. 818.
Rumney, Fred A., East Somerville, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for marking shoe-uppers. No. 989,058; Apr. 11; Sp. p. 1612; Gaz. vol. 165; p. 282.
Rümpler, Carl, Schöneberg, near Berlin, Germany. Treating aluminum articles for the formation of galvanic metallic coatings. No. 992,600; May 16; Sp. p. 3824; Gaz. vol. 166; p. 681.
Rund, Julius, Frankfort-on-the-Main, Germany. Balloon-envelop material. No. 1,001,892; Aug. 29; Sp. p. 5768; Gaz. vol. 169; p. 1051.
Rund, Julius A., Barton, N. D. Doughnut-lifter. No. 1,013,067; Dec. 26; Sp. p. 5942; Gaz. vol. 173; p. 1040.
Rundle, Milton B. (See King and Rundle.)
Rundlett, William D., and H. White, assignors to Davis & Furber Machine Company, North Andover, Mass. Spinning-mule. No. 989,513; Apr. 11; Sp. p. 2571; Gaz. vol. 165; p. 436.
Runge, Carl, *et al.* (See Willma, Theodor, assignor.)
Runge, William, assignor to The Seneca Falls Manufacturing Company, Seneca Falls, N. Y. Micrometer cutting-gage or stop device for lathes, &c. No. 995,726; June 20; Sp. p. 3554; Gaz. vol. 167; p. 626.
Runion, David F., Broadway, Va. Trap. No. 983,934; Feb. 14; Sp. p. 1482; Gaz. vol. 163; p. 261.
Runnells, William F., *et al.* (See Rollins, Frank O., assignor.)
Runner, John B., Indianapolis, Ind. Variable-speed-transmission device. No. 981,797; Jan. 17; Sp. p. 3601; Gaz. vol. 162; p. 611.
Ruopp, John C., *et al.* (See Kehr, Henry D., Sr., assignor.)
Rupe, Edwin H. (See Winston and Rupe.)
Rupert, Frederick J., Salem, Oreg. Curtain-guide. No. 1,011,495; Dec. 12; Sp. p. 2462; Gaz. vol. 173; p. 419.
Rüping, Max, assignor to Hulsberg & Cie. Gesellschaft mit beschränkter Haftung, Charlottenburg, Germany. Impregnation of wood, &c. No. 1,008,864; Nov. 14; Sp. p. 2763; Gaz. vol. 172; p. 465.
Rupley, George H., Schenectady, N. Y., assignor to General Electric Company. Filler for coils and the like. No. 981,798; Jan. 17; Sp. p. 3604; Gaz. vol. 162; p. 612.

Alphabetical list of patentees—Continued.

Rupley, George H., assignor, by mesne assignments, of one-half to F. J. Seabolt, one-fourth to E. C. Hall, Schenectady, N. Y., and one-fourth to E. F. Pickford, Washington, D. C. Combined lamp-support and automatic timing mechanism. No. 992,992; May 23; Sp. p. 4641; Gaz. vol. 166; p. 847.
Rupp, Adolph E., Chicago, Ill. Combined door hanger and track. No. 989,646; Apr. 18; Sp. p. 2911; Gaz. vol. 165; p. 513.
Rupp, Burton S., and J. W. Johnson, Salt Lake City, Utah. Metallic tie. No. 1,005,317; Oct. 10; Sp. p. 1633; Gaz. vol. 171; p. 292.
Rupp, Burton S., and J. W. Johnson, Salt Lake City, Utah. Metallic tie. No. 1,005,318; Oct. 10; Sp. p. 1635; Gaz. vol. 171; p. 293.
Rupp, Christian, *et al.* (See Shank, Augustus W., assignor.)
Rupp, John. (See Jacky, Chester A., assignor.)
Rupp, Julius, Kolze, Ill. Snow-fence. No. 1,006,796; Oct. 24; Sp. p. 4931; Gaz. vol. 171; p. 873.
Ruppert, Jacob, Jr., *et al.* (See Siegel and Cantor, assignors.)
Ruprecht, Charles C., assignor, by mesne assignments, to The Cleveland Vibrator & Electrical Company, Cleveland, Ohio. Electric massage-vibrator. No. 1,005,319; Oct. 10; Sp. p. 1637; Gaz. vol. 171; p. 293.
Rusbatch, Alfred, Cleveland, Ohio. Gas-producer. No. 1,006,797; Oct. 24; Sp. p. 4933; Gaz. vol. 171; p. 873.
Rush, Charles, Pittsburgh, Pa. Web-feed mechanism for printing-presses. No. 1,009,791; Nov. 28; Sp. p. 4781; Gaz. vol. 172; p. 866.
Rush, Charles A., San Francisco, Cal. Vaporizer and separator. No. 992,260; May 16; Sp. p. 3076; Gaz. vol. 166; p. 560.
Rush, James M., assignor of one-half to J. B. Wagor, Neosho, Mo. Grain-car door. No. 986,646; Mar. 14; Sp. p. 1893; Gaz. vol. 164; p. 334.
Rush, Martin V., Anderson, Ind. Ladder-bracket. No. 988,823; Apr. 4; Sp. p. 1137; Gaz. vol. 165; p. 182.
Rush, Owen T. (See Garner and Rush.)
Rushing, Gilbert M., Hallsboro, N. C. Rake. No. 1,012,712; Dec. 26; Sp. p. 5129; Gaz. vol. 173; p. 920.
Russ, George F., Weehawken Heights, N. J. Paper-feeding mechanism. No. 991,091; May 2; Sp. p. 546; Gaz. vol. 166; p. 94.
Russ, George V., Ivanhoe, N. C. Alarm. No. 998,639; July 25; Sp. p. 4439; Gaz. vol. 168; p. 812.
Russ, Henry M., Kent, Ohio. Sleeve-ironing board. No. 982,093; Jan. 17; Sp. p. 4285; Gaz. vol. 162; p. 714.
Russ, Howard C. (See Beach and Russ.)
Russ, John D., assignor of one-half to F. F. McIntosh, Spencer, W. Va. Gun-sight. No. 990,783; Apr. 25; Sp. p. 5433; Gaz. vol. 165; p. 936.
Russ, John D., assignor of one-half to F. F. McIntosh, Spencer, W. Va. Single-trigger gun mechanism. No. 1,013,068; Dec. 26; Sp. p. 5943; Gaz. vol. 173; p. 1040.
Russel Motor Axle Company. (See Berger, Ferdinand H., assignor.)
Russel, Robert J., Flint, Mich. Caster. No. 985,455; Feb. 28; Sp. p. 4785; Gaz. vol. 163; p. 850.
Russel, Robert J., Flint, Mich. Insect-trap. No. 995,911; June 20; Sp. p. 3970; Gaz. vol. 167; p. 689.
Russell, Albert, New York, N. Y. Embroidering-machine. No. 1,004,912; Oct. 3; Sp. p. 803; Gaz. vol. 171; p. 128.
Russell, Arthur B., Chicago, Ill. Chair-brace. No. 991,648; May 9; Sp. p. 1767; Gaz. vol. 166; p. 323.
Russell, Arthur L., Hyde Park, Mass., assignor to United Shoe Machinery Co., Paterson, N. J. Lasting-machine. No. 1,001,081; Aug. 22; Sp. p. 4081; Gaz. vol. 169; p. 748.
Russell, Bertrand, and E. Savage, assignors of one-third to R. M. Randall, Saginaw, Mich. Jig for washing coal and similar substances. No. 1,011,496; Dec. 12; Sp. p. 2463; Gaz. vol. 173; p. 420.
Russell, Burdsall & Ward Bolt and Nut Co. (See Boerner, Emile C., assignor.)
Russell, Burdsall & Ward Bolt and Nut Co. (See Nathan, Albert F., assignor.)
Russell, Clarence E. (See Chichester and Russell.)
Russell, Clarence E., and T. M. Keith, Brooklyn, N. Y. Antiskid attachment for wheel-tires. No. 991,895; May 9; Sp. p. 2275; Gaz. vol. 166; p. 405.
Russell, Clinton W., Detroit, Mich. Log skidding and loading apparatus. No. 985,942; Mar. 7; Sp. p. 398; Gaz. vol. 164; p. 63.
Russell, Clinton W., Detroit, Mich. Snatch-block. No. 991,649; May 9; Sp. p. 1768; Gaz. vol. 166; p. 324.
Russell, Clinton W., Detroit, Mich. Yieldable sheave-support for logging apparatus. No. 991,650; May 9; Sp. p. 1769; Gaz. vol. 166; p. 324.
Russell, Edgar J., St. Louis, Mo., and J. W. Dye; said Dye assignor to R. E. Dye, East St. Louis, Ill. Grain-car door. No. 998,041; July 18; Sp. p. 3122; Gaz. vol. 168; p. 568.
Russell & Erwin Manufacturing Company. (See Gold, Russell, assignor.)
Russell & Erwin Manufacturing Company. (See Hurd, Norman B., assignor.)
Russell & Erwin Manufacturing Company. (See Voight, Henry G., assignor.)
Russell & Erwin Manufacturing Company. (See Voight and Hurd, assignors.)
Russell, Floyd W., Akron, Ohio. Sad-iron. No. 989,877; Apr. 18; Sp. p. 3397; Gaz. vol. 165; p. 593.
Russell, Frank J., New York, N. Y. Weatherproof electrical receptacle. No. 992,993; May 23; Sp. p. 4642; Gaz. vol. 166; p. 847.
Russell, Frank N., Elmira, N. Y. Trolley. No. 980,344; Jan. 3; Sp. p. 328; Gaz. vol. 162; p. 59.
Russell, Frederick T., assignor to A. H. Fox Gun Company, Philadelphia, Pa. Shell-ejector for guns. No. 991,375; May 2; Sp. p. 1175; Gaz. vol. 166; p. 196.
Russell, George, McKeesport, assignor to Pittsburgh Can Company, Pittsburg, Pa. Bail. No. 992,601; May 16; Sp. p. 3825; Gaz. vol. 166; p. 681.
Russell, George, McKeesport, assignor to Pittsburgh Can Company, Pittsburg, Pa. Frame for supporting coated articles. No. 993,110; May 23; Sp. p. 4905; Gaz. vol. 166; p. 888.
Russell, George, McKeesport, Pa. Treating sheet metal. No. 1,006,881; Oct. 24; Sp. p. 5134; Gaz. vol. 171; p. 904.
Russell, George C., Biloxi, Miss. Anvil attachment. No. 994,606; June 6; Sp. p. 1046; Gaz. vol. 167; p. 174.
Russell, Ira P., Rushville, Ind. Baby-rest. No. 992,602; May 16; Sp. p. 3826; Gaz. vol. 166; p. 681.
Russell, Irone H., Washington, D. C. Ambulance. No. 982,997; Jan. 31; Sp. p. 6196; Gaz. vol. 162; p. 1080.
Russell, James C., Pittsburg, Pa. Treating steel railway-rails and other like bars No. 993,410; May 30; Sp. p. 5527; Gaz. vol. 166; p. 1017.
Russell, James C., Pittsburg, Pa. Apparatus for treating steel railway-rails, &c. No. 993,411; May 30; Sp. p. 5531; Gaz. vol. 166; p. 1017.
Russell, James C., Pittsburgh, Pa. Treating of metal articles. No. 1,008,674; Nov. 14; Sp. p. 2373; Gaz. vol. 172; p. 401.
Russell, John A., assignor of one-half to H. Badenius, Chicago Heights, Ill. Flue-blower. No. 1,010,523; Dec. 5; Sp. p. 277; Gaz. vol. 173; p. 44.
Russell, John H., and A. A. Carson, Ashland, assignors to E. J. Ramey, Newark, Ohio. Vacuum-cleaner for carpets and the like. No. 993,202; May 23; Sp. p. 5085; Gaz. vol. 166; p. 917.
Russell, Joseph, Buswell, Wis. Clamp for buzz-saws. No. 985,209; Feb. 28; Sp. p. 4224; Gaz. vol. 163; p. 766.
Russell, Joseph F., Battle Creek, Mich. Reinforcing structure. No. 984,494; Feb. 14; Sp. p. 2667; Gaz. vol. 163; p. 449.
Russell Manufacturing Co., The. (See Smith, William G., assignor.)
Russell, Norman, *et al.* (See Rollins, Frank O., assignor.)
Russell, Peter J., Stevensville, Mont. Railway-crossing signal. No. 995,910; June 20; Sp. p. 3969; Gaz. vol. 167; p. 689.
Russell, Ralph. (See Smith, Russell, Anderson, and Grimes.)
Russell, Robert, Salt Lake City, Utah. Lock. No. 1,004,690; Oct. 3; Sp. p. 301; Gaz. vol. 171; p. 51.
Russell, Samuel J., Buffalo, N. Y. Apparatus for shoveling, lifting, carrying, and dumping material. No. 1,012,713; Dec. 26; Sp. p. 5130; Gaz. vol. 173; p. 920.
Russell, Thomas H., Clacton-on-Sea, England. Pot for containing beverages. No. 986,865; Mar. 14; Sp. p. 2353; Gaz. vol. 164; p. 408.
Russell, Thomas N., Lima, Ohio. Uncoupling device for car-couplings. No. 1,009,183; Nov. 21; Sp. p. 3447; Gaz. vol. 172; p. 609.
Russell, William A. (See Thompson, Clement B., assignor.)
Russell, William A., Corte Madera, Cal. Wave-motor. No. 984,241; Feb. 14; Sp. p. 2152; Gaz. vol. 163; p. 365.
Russell, William E. (See Lichtenstine, Albert, assignor.)
Russell, William E., Danbury, Conn. Electric terminal contact. No. 1,001,558; Aug. 22; Sp. p. 5025; Gaz. vol. 169; p. 906.
Russell, William T. (See Ryerson, Oscar S., assignor.)
Russell, William W. (See Toole, Edward, assignor.)
Russia Cement Co. (See Phillips, Nathan C., assignor.)
Russo, Gioacchino, Rome, Italy. Armor-plate bolt. No. 993,276; May 23; Sp. p. 5231; Gaz. vol. 166; p. 938.
Russo, Thomas J., Trenton, N. J. Ink-fountain. No. 994,035; May 30; Sp. p. 6856; Gaz. vol. 166; p. 1231.
Russum, Thomas H., Baltimore, Md., assignor to Double Body Bolster Company, St. Louis, Mo. Car-bolster chafing-plate. No. 993,717; May 30; Sp. p. 6220; Gaz. vol. 166; p. 1124.
Rust, Henry B. (See Chester and Rust.)
Rust, William F., Youngstown, Ohio. Cooling-rack. No. 1,006,982; Oct. 24; Sp. p. 5343; Gaz. vol. 171; p. 937.
Rust, William F., Youngstown, Ohio. Automatic poker for gas-producers. No. 1,008,494; Nov. 14; Sp. p. 1963; Gaz. vol. 172; p. 336.
Rustige, Frans J. H., Stora Essingen, near Stockholm, Sweden. Vaporizer for incandescent liquid-fuel lamps. No. 1,005,320; Oct. 10; Sp. p. 1639; Gaz. vol. 171; p. 294.
Rustige, Frans J. H., Stockholm, Sweden. Self-pressure lamp for liquid fuel. No. 1,006,133; Oct. 17; Sp. p. 3435; Gaz. vol. 171; p. 610.

Alphabetical list of patentees—Continued.

Ruth, Ida M., assignor to B. Blondheim and H. Dettelbach, Baltimore, Md. Apron. No. 999,263; Aug. 1; Sp. p. 137; Gaz. vol. 169; p. 26.
Ruth, William A., Avalon, Pa. Shut-off valve for oil and gas wells. No. 998,400; July 18; Sp. p. 3934; Gaz. vol. 168; p. 697.
Ruthenberg, Hermann, Villenkolonie Grunewald, near Berlin, Germany. Apparatus for measuring the steam passing through a pipe. No. 985,635; Feb. 28; Sp. p. 5158; Gaz. vol. 163; p. 912.
Ruthenburg, Marcus, Lockport, N. Y. Furnace. No. 980,345; Jan. 3; Sp. p. 330; Gaz. vol. 162; p. 60.
Ruthenburg, Marcus, Lockport, N. Y. Apparatus for manufacturing iron and its alloys. No. 995,636; June 20; Sp. p. 3373; Gaz. vol. 167; p. 594.
Rutherfoord, Brabazon. (See Jones, Joshua J., assignor.)
Ruthven, Alfred L., Topeka, Kans., assignor to Ruthven Railway Signal Company, Phoenix, Ariz. Signal system for railways. No. 989,194; Apr. 11; Sp. p. 1887; Gaz. vol. 165; p. 328.
Ruthven Railway Signal Company. (See Ruthven, Alfred L., assignor.)
Rutler, Adolph, assignor to Susquehanna Silk Mills, Sunbury, Pa. Dyeing fabrics. No. 1,005,888; Oct. 17; Sp. p. 2891; Gaz. vol. 171; p. 524.
Rutson, Charles, assignor to Jackson Cushion Edge Company, Jackson, Mich. Machine for stuffing edge-rolls. No. 992,808; May 23; Sp. p. 4229; Gaz. vol. 166; p. 781.
Rutz, Julius F., and J. K. Luethe, Milwaukee, Wis. Igniter-torch for gas-burners. No. 1,009,184; Nov. 21; Sp. p. 3449; Gaz. vol. 172; p. 609.
Rutz, Walter, Rosenberg, Germany. Device for rendering stage-figures of miniature house-theaters (puppet-shows) movable. No. 1,003,807; Sept. 19; Sp. p. 3524; Gaz. vol. 170; p. 627.
Ruwitzer, Fred, *et al.* (See Capwell, Courtland G., assignor.)
Rux, Ferdinand G., Rib Falls, Wis. Automatic car-hose coupling. No. 988,511; Apr. 4; Sp. p. 466; Gaz. vol. 165; p. 75.
Ruyle, Robert N., assignor of one-fourth to H. C. Deck and one-fourth to A. J. Fell, Roodhouse, Ill. Welding compound. No. 999,403; Aug. 1; Sp. p. 418; Gaz. vol. 169; p. 74.
Ryals, Russell C., Daniels, W. Va. Painter's pot-hook. No. 991,651; May 9; Sp. p. 1771; Gaz. vol. 166; p. 324.
Ryan, Catherine, Ottawa, Ontario, Canada. Measuring device for cutting garments. No. 1,004,593; Oct. 3; Sp. p. 93; Gaz. vol. 171; p. 17.
Ryan, Charles, Sydney, New South Wales, Australia. Collar. No. 985,636; Feb. 28; Sp. p. 5161; Gaz. vol. 163; p. 912.
Ryan, Edward, Clinton, Iowa. Lubricator. No. 1,001,559; Aug. 22; Sp. p. 5026; Gaz. vol. 169; p. 906.
Ryan, John. (See O'Brien, Thomas, assignor.)
Ryan, John G., Montreal, Quebec, Canada. Head-rest for beds. No. 981,691; Jan. 17; Sp. p. 3399; Gaz. vol. 162; p. 574.
Ryan, John J., and T. Diem, Chicago, Ill.; said Diem assignor to said Ryan. Apparatus for cleaning beer-pipes. No. 988,899; Apr. 4; Sp. p. 1273; Gaz. vol. 165; p. 204.
Ryan, Joseph P. (See Smith, George R., assignor.)
Ryan, Matthew. (See Saltzer, Andrew, assignor.)
Ryan, Michael C., Phoenix, N. Y. Stop-motion. No. 1,004,594; Oct. 3; Sp. p. 96; Gaz. vol. 171; p. 17.
Ryan, Philip P., Hartford, Conn. Rotary fan. No. 982,691; Jan. 24; Sp. p. 5509; Gaz. vol. 162; p. 949.
Ryan, Thomas W., Concord Junction, Mass. Ball-cock. No. 986,866; Mar. 14; Sp. p. 2354; Gaz. vol. 164; p. 408.
Ryan, Walter D., Watertown, S. D., assignor of one-half to A. C. Douglas, Niagara Falls, N. Y. Making briquets. No. 1,003,296; Sept. 12; Sp. p. 2438; Gaz. vol. 170; p. 420.
Ryan, Walter S., Muncie, Ind. Circuit-breaker. No. 991,546; May 9; Sp. p. 1548; Gaz. vol. 166; p. 287.
Ryan, William M., assignor to Lemac Carriers Company, Chicago, Ill. Poultry-car. No. 998,401; July 18; Sp. p. 3936; Gaz. vol. 168; p. 697.
Ryans, Edward A., *et al.* (See Fossee, Lewis, assignor.)
Ryave, Samuel, McKees Rocks, and H. Obernauer, Pittsburgh, Pa. Stool. No. 1,009,584; Nov. 21; Sp. p. 4359; Gaz. vol. 172; p. 751.
Ryberg, Charles O., Brockton, Mass. Heel-building machine. No. 989,059; Apr. 11; Sp. p. 1618; Gaz. vol. 165; p. 283.
Ryberg, Charles O., Brockton, Mass. Heel building and pressing machine. No. 990,598; Apr. 25; Sp. p. 5015; Gaz. vol. 165; p. 873.
Ryberg, Gustaf H. (See Schneider, Wilhelm P., assignor.)
Ryckman, David E., Pollock, S. D. Wire-gate fastener. No. 996,368; June 27; Sp. p. 5005; Gaz. vol. 167; p. 881.
Ryckman, John, and J. D. Vivian, Minneapolis, Minn. Gas-generating oil-burner. No. 993,412; May 30; Sp. p. 5537; Gaz. vol. 166; p. 1018.
Rydberg, Charles F., Montreal, Quebec, Canada. Sleeping-car berth. No. 991,027; May 2; Sp. p. 412; Gaz. vol. 166; p. 71.
Rydberg, John T., Garwood, N. J. Flying-machine aeroplane. No. 993,623; May 30; Sp. p. 6000; Gaz. vol. 166; p. 1091.
Ryden, Claes, Providence, R. I., assignor to Universal Winding Company. Unwinding device. No. 981,950; Jan. 17; Sp. p. 3990; Gaz. vol. 162; p. 666.
Ryder, Frank, assignor to J. F. Evert, Mendon, Mich. Fence-post mold. No. 996,282; June 27; Sp. p. 4799; Gaz. vol. 167; p. 851.
Ryder, Frank H., Cobleskill, N. Y. Fertilizer-spreader. No. 1,007,493; Oct. 31; Sp. p. 6462; Gaz. vol. 171; p. 1170.
Ryder, Frank P., Boston, Mass. Can-marking machine. No. 986,867; Mar. 14; Sp. p. 2356; Gaz. vol. 164; p. 409.
Ryder, Malcolm P., White Plains, N. Y. Circuit-breaker. No. 998,990; July 25; Sp. p. 5256; Gaz. vol. 168; p. 936.
Ryerson, Oscar S., Worcester, assignor of one-half to W. T. Russell, Wellesley, Mass. Lamp-guard. No. 1,003,515; Sept. 19; Sp. p. 2882; Gaz. vol. 170; p. 526.
Ryland, Herbert S. (See Chalmers and Ryland.)
Ryle, Marcus W. (See Carlton and Ryle.)
Rynearson, Eugene, Dallas, Tex. Pavement-breaking machine. No. 997,538; July 11; Sp. p. 2171; Gaz. vol. 168; p. 385.
Ryno, Charles V. (See Thompson, Wilson, assignor.)
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Tuft-yarn carrier. No. 989,060; Apr. 11; Sp. p. 1622; Gaz. vol. 165; p. 283.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Shedding mechanism for looms. No. 989,061; Apr. 11; Sp. p. 1623; Gaz. vol. 165; p. 284.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Filling detector or feeler for weft-replenishing looms. No. 989,429; Apr. 11; Sp. p. 2412; Gaz. vol. 165; p. 407.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Holding and releasing device for bobbins in magazines of weft-replenishing looms. No. 1,005,321; Oct. 10; Sp. p. 1640; Gaz. vol. 171; p. 294.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Weft-replenishing loom. No. 1,005,322; Oct. 10; Sp. p. 1643; Gaz. vol. 171; p. 294.
Ryon, Eppa H., Waltham, Mass., assignor to Crompton & Knowles Loom Works. Filling-thread-cutting mechanism for weft-replenishing looms. No. 1,009,997; Nov. 28; Sp. p. 5200; Gaz. vol. 172; p. 934.
Ryon, Eppa H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Let-off mechanism for looms. No. 993,718; May 30; Sp. p. 6221; Gaz. vol. 166; p. 1125.
Ryon, Eppa H., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Spinning-frame. No. 1,012,714; Dec. 26; Sp. p. 5133; Gaz. vol. 173; p. 920.
Rypinski, Maurice C., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Testing electric transformers. No. 984,160; Feb. 14; Sp. p. 1960; Gaz. vol. 163; p. 336.
Rypinski, Maurice C., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electrical measuring instrument. No. 985,456; Feb. 28; Sp. p. 4786; Gaz. vol. 163; p. 850.
Rypinski, Maurice C., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Measuring instrument. No. 985,457; Feb. 28; Sp. p. 4787; Gaz. vol. 163; p. 851.
Ryszka, Theodor R., Kansas City, Kans. Power-transmission mechanism. No. 994,874; June 13; Sp. p. 1716; Gaz. vol. 167; p. 306.
Ryther, Frank A., Chicago, Ill., assignor to International Harvester Company. Indicator for bailing-presses. No. 993,413; May 30; Sp. p. 5538; Gaz. vol. 166; p. 1018.
Ryther, Frank A., Chicago, Ill., assignor to International Harvester Company. Grinding-mill. No. 993,462; May 30; Sp. p. 5647; Gaz. vol. 166; p. 1033.
Ryther, Frank A., Chicago, Ill., assignor to International Harvester Company. Hay-press. No. 995,912; June 20; Sp. p. 3972; Gaz. vol. 167; p. 689.
Ryther, George D., Carthage, N. Y. Paper-stock-refining apparatus. No. 1,000,628; Aug. 15; Sp. p. 3059; Gaz. vol. 169; p. 556.
Rzodkowolski, John, *et al.* (See Lukaszewski, Stanislaw J., assignor.)
S. Karpen & Bros. (See Kroehler and Petterson, assignors.)
S. Karpen & Brothers. (See Karpen, Martin S., assignor.)
S. Karpen & Brothers. (See Karpen, Solomon, assignor.)
S. Karpen & Brothers. (See Kroehler, Peter E., assignor.)
S. A. Woods Machine Company. (See Blood, Charles W. H., assignor.)
S. D. Childs & Co. (See Wilson, James R., assignor.)
S. D. Hicks & Son. (See Erickson, Axel M., assignor.)
S. F. Bowser & Company. (See Bowser, La Fayette E., assignor.)
S. F. Bowser & Company. (See Morris, William L., assignor.)
S. H. Kress & Company. (See Kress, Claude W., assignor.)
S. H. Pomeroy Company. (See Fromhold, Alexander, assignor.)

Alphabetical list of patentees—Continued.

S. M. Bixby & Company. (See Franklin, Duncan R., assignor.)
S. M. Bixby & Company. (See Hotson, John H., assignor.)
S. R. Dresser Manufacturing Company. (See Clark, James, assignor.)
S. R. Dresser Manufacturing Company. (See Whitaker, Louis P., assignor.)
S. R. Smythe Company, The. (See Schild, Hermann E., assignor.)
S. S. Hepworth Company. (See Mackintosh, Edward D., assignor.)
Saalburg, Charles W. (See Kempinski, Hans, assignor.)
Saas, Robert, New York, N. Y. Drafting-triangle. No. 987,917; Mar. 28; Sp. p. 4592; Gaz. vol. 164; p. 826.
Saavedra, Manuel B., Habana, Cuba. Aeroplane. No. 998,402; July 18; Sp. p. 3938; Gaz. vol. 168; p. 698.
Sabathé, Louis G., Paris, assignor to The Societe des Moteurs Sabathe, St. Etienne, Loire, France. Vertical internal-combustion engine. No. 990,297; Apr. 25; Sp. p. 4313; Gaz. vol. 165; p. 768.
Sabine, Gustavus A., Robinson, Md. Burglar-alarm. No. 1,000,847; Aug. 15; Sp. p. 3513; Gaz. vol. 169; p. 632.
Sacco, Paul. (See Scaramuzzi, Antony T., assignor.)
Sachs, Caroline N., assignor to The Sachs Company, Hartford, Conn. Switch-box. No. 1,007,802; Nov. 7; Sp. p. 347; Gaz. vol. 172; p. 55.
Sachs Company, The. (See Sachs, Caroline N., assignor.)
Sachs Company, The. (See Sachs, Joseph, assignor.)
Sachs, Joseph, assignor of one-half to The Hart Manufacturing Company, Hartford, Conn. Circuit-controlling apparatus. No. 985,943; Mar. 7; Sp. p. 401; Gaz. vol. 164; p. 64.
Sachs, Joseph, assignor to The Sachs Company, Hartford, Conn. Coupling. No. 1,012,102; Dec. 19; Sp. p. 3846; Gaz. vol. 173; p. 666.
Sachs, Walter G., and C. W. Landers, San Francisco, Cal. Automobile-lock. No. 1,009,931; Nov. 28; Sp. p. 5051; Gaz. vol. 172; p. 912.
Sack, Adelheid, sole heir. (See Sack, Hugo.)
Sack, Hugo, deceased; A. Sack, Dusseldorf, Germany, sole heir of said Hugo Sack. Forming I-bars with taperless flanges. No. 983,601; Feb. 7; Sp. p. 752; Gaz. vol. 163; p. 118.
Sack, Hugo, deceased, Dusseldorf, Germany; A. Sack, sole heir. Method of and apparatus for producing structural shapes. No. 999,467; Aug. 1; Sp. p. 535; Gaz. vol. 169; p. 94.
Sacket, Edward A., Denver, Colo. Cue-tip holder. No. 985,067; Feb. 21; Sp. p. 3870; Gaz. vol. 163; p. 683.
Sackett, Charles E., Danbury, Conn. Collar-buttonhole. No. 987,324; Mar. 21; Sp. p. 3315; Gaz. vol. 164; p. 595.
Sackett, George C. (See Starkey, Louis H., assignor.)
Sackett, Jasper L., Melrose, assignor, by mesne assignments, to J. J. Pew, Gloucester, Mass. Twisting-machine. No. 980,346; Jan. 3; Sp. p. 331; Gaz. vol. 162; p. 60.
Sackman, Charles, Brooklyn, N. Y. Rag doll. No. 982,880; Jan. 31; Sp. p. 5945; Gaz. vol. 162; p. 1042.
Sackrider, Clarence I., Delmar, Iowa. Starter for internal-combustion engines. No. 983,168; Jan. 31; Sp. p. 6537; Gaz. vol. 162; p. 1136.
Sackrider, Frank E., Brave, Pa. Nut-lock. No. 989,294; Apr. 11; Sp. p. 2125; Gaz. vol. 165; p. 363.
Sadler, George P. N., Attica, Ind. Attachment for airships. No. 999,125; July 25; Sp. p. 5518; Gaz. vol. 168; p. 981.
Sadler, Herbert A., South Attleboro, Mass. Veil-fastener. No. 992,450; May 16; Sp. p. 3483; Gaz. vol. 166; p. 627.
Sadler, Louis E., assignor to The F. H. Sadler Co., Attleboro, Mass. Locket. No. 982,221; Jan. 17; Sp. p. 4517; Gaz. vol. 162; p. 758.
Sadler, Samuel, St. Louis, Mo. Shuttlecock. No. 1,011,856; Dec. 12; Sp. p. 3272; Gaz. vol. 173; p. 544.
Saecker, Herman G. (See Power, Michael J., assignor.) (Reissue.)
Saecker, Herman G., Appleton, Wis. Clutch. No. 990,906; May 2; Sp. p. 162; Gaz. vol. 166; p. 30.
Saeger, Herman W., Battle Creek, Iowa, and W. Burow, Frederick, S. D. Engine-starting mechanism. No. 986,221; Mar. 7; Sp. p. 962; Gaz. vol. 164; p. 156.
Saegmüller, Frederick B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Telescope. No. 1,012,715; Dec. 26; Sp. p. 5136; Gaz. vol. 173; p. 921.
Saegmuller, George N., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Single-field double-sighting telescope. No. 991,652; May 9; Sp. p. 1772; Gaz. vol. 166; p. 324.
Saegmuller, George N., and A. Grebe, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Sighting-telescope. No. 1,011,248; Dec. 12; Sp. p. 1917; Gaz. vol. 173; p. 331.
Saez, Emilio. (See Gormez and Saez.)
Safe Cabinet Company, The. (See Wege, Peter M., assignor.)
Safe Storm Shield Co., The. (See Wensinger, Charles F., assignor.)
Safe, Vault and Protection Company. (See Kercher, Arthur J., assignor.)
Safe, Vault and Protection Company. (See West, Edwin W., assignor.)
Safety Block Signal Company, The. (See Williams, Frank C., assignor.)
Safety Car Coupler Co., The. (See Brown, Mark A., assignor.)
Safety Car Heating & Lighting Company. (See Allbee and Hulse, assignors.)
Safety Car Heating and Lighting Company. (See Creveling, John L., assignor.)
Safety Car Heating & Lighting Company. (See Dixon, Robert M., assignor.)
Safety Car Heating & Lighting Company. (See Hulse, George E., assignor.)
Safety Car Heating & Lighting Company. (See Thomson, William I., assignor.)
Safety Foot Guard and Railway Appliance Company, The. (See Dunkle, Samuel K., assignor.)
Safety Gaslighter Company. (See Pomeroy, Frederick H., assignor.)
Safety Insulated Wire & Cable Company. (See Clark, Le Roy, assignor.)
Safety Light & Heating Company. (See Merrege, Frank C., assignor.)
Safety Light & Heating Company of America. (See Merrege, Frank C., assignor.)
Safety Power Transmission Company. (See Podeyn, Henry F. M., assignor.)
Safety Tread Syndicate Limited, The. (See Beevers, Thomas, assignor.)
Saffold, S. S. (See Doud, Arthur N., assignor.)
Sagar, George H., Pompton Lakes, N. J. Suction-box. No. 989,195; Apr. 11; Sp. p. 1890; Gaz. vol. 165; p. 328.
Sage, Charles S., Rome, N. Y. Radiator. No. 1,012,716; Dec. 26; Sp. p. 5139; Gaz. vol. 173; p. 921.
Sage, David E., and F. N. Maes, Forrest, Ill. Padlock. No. 986,595; Mar. 14; Sp. p. 1784; Gaz. vol. 164; p. 316.
Sage, George W., San Diego, Cal. Safety cranking attachment for internal-combustion engines. No. 1,007,608; Oct. 31; Sp. p. 6722; Gaz. vol. 171; p. 1209.
Sage, George W., assignor of one-third to W. R. Byars, San Diego, Cal. Gas-engine-starting device. No. 1,006,683; Oct. 24; Sp. p. 4684; Gaz. vol. 171; p. 834.
Sage, Hayden W., assignor to F. A. Baldwin and V. M. Tuthill, Grand Rapids, Mich. Tooth-bending attachment. No. 989,727; Apr. 18; Sp. p. 3070; Gaz. vol. 165; p. 541.
Sagendorph, George A., trustee. (See Dolan, James P., assignor.)
Sagendorph, George A., Newton, Mass., assignor to The Penn Metal Ceiling and Roofing Company, Limited. Culvert. No. 991,172; May 2; Sp. p. 734; Gaz. vol. 166; p. 124.
Sagendorph, Lloyd A., Philadelphia, Pa. Reflector. No. 988,824; Apr. 4; Sp. p. 1138; Gaz. vol. 165; p. 182.
Sagerdahl, John A., Youngsville, Pa. Sanding-machine. No. 1,000,296; Aug. 8; Sp. p. 2291; Gaz. vol. 169; p. 406.
Sagerstrom, Charles G., Chicago, Ill. Shield for icemen and others. No. 1,000,297; Aug. 8; Sp. p. 2293; Gaz. vol. 169; p. 406.
Sagi, Paul, Trenton, N. J. Cuspidor. No. 981,479; Jan. 10; Sp. p. 2967; Gaz. vol. 162; p. 482.
Saginaw Gold and Platinum Dredging Company. (See Elliott, Frank, assignor.)
Sague, George, Poughkeepsie, N. Y. Machine for cleaning printers' rollers. No. 1,002,322; Sept. 5; Sp. p. 317; Gaz. vol. 170; p. 44.
Sahr, Herman F. (See Bricker, Charles H., assignor.)
Sailer, Ernst, assignor, by mesne assignments, to Bausch & Lomb Optical Company, Rochester, N. Y. Automatic arc-lamp. No. 981,121; Jan. 10; Sp. p. 2161; Gaz. vol. 162; p. 356.
Sailer, John M., Janesville, Wis. Carbureter. No. 984,109; Feb. 14; Sp. p. 1860; Gaz. vol. 163; p. 319.
Sailer, John M., Janesville, Wis., assignor of one-half to W. Musser, Iowa City, Iowa. Clutch. No. 985,286; Feb. 28; Sp. p. 4406; Gaz. vol. 163; p. 793.
Sailer, John M., Janesville, Wis., assignor of one-half to W. Musser, Iowa City, Iowa. Corn-sheller. No. 985,287; Feb. 28; Sp. p. 4408; Gaz. vol. 163; p. 793.
Sain, William T., Seattle, Wash. Dredge. No. 983,772; Feb. 7; Sp. p. 1099; Gaz. vol. 163; p. 177.
Saino, Felix L., D. M. Lynch, W. F. Dunbar, and J. H. Weatherford, assignors to Saino Fire Door and Shutter Company, Memphis, Tenn. Fire door and shutter. No. 982,303; Jan. 24; Sp. p. 4718; Gaz. vol. 162; p. 816.
Saino Fire Door and Shutter Company. (See Saino, Lynch, Dunbar, and Weatherford, assignors.)
Sajó, Eugene. (See Sajó, Leo, assignor.)
Sajó, Leo, assignor of one-half to E. Sajó, Budapest, Austria-Hungary. Building-block. No. 991,896; May 9; Sp. p. 2276; Gaz. vol. 166; p. 406.
Sakai, Yasudiro, East Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Stop-cock. No. 1,001,455; Aug. 22; Sp. p. 4836; Gaz. vol. 169; p. 872.
Salé, Friedrich, Dusseldorf, Germany. Nippers. No. 987,173; Mar. 21; Sp. p. 2983; Gaz. vol. 164; p. 542.
Salé, Friedrich, Dusseldorf, Germany. Device for holding several jewels in form of a setting. No. 993,797; May 30; Sp. p. 6388; Gaz. vol. 166; p. 1151.

Alphabetical list of patentees—Continued.

Salé, Friedrich, Dusseldorf, Germany. Apparatus for the examination of precious stones. No. 1,001,991; Aug. 29; Sp. p. 5992; Gaz. vol. 169; p. 1084.
Sale, John H., Roseland, La., assignor of one-sixth to W. M. Jones, one-sixth to M. E. Garrison, one-sixth to R. Bennett, one-sixth to J. W. Wilkinson, Denham Springs, and one-sixth to M. Benedict, Pineville, La. Rail-joint. No. 1,002,183; Aug. 29; Sp. p. 6339; Gaz. vol. 169; p. 1145.
Salenius, Anders T., assignor to Aktiebolaget Salenius' Werkstader, Stockholm, Sweden. Lifter for liner-plates of centrifugal separators. No. 999,341; Aug. 1; Sp. p. 283; Gaz. vol. 169; p. 52.
Salfield, Carl D., San Francisco, Cal. Building construction. No. 991,751; May 9; Sp. p. 1979; Gaz. vol. 166; p. 356.
Saliger, Alois B., New York, N. Y. Tire-chain. No. 995,372; June 13; Sp. p. 2773; Gaz. vol. 167; p. 473.
Salina, Paul. (See Diaz, Joseph F., assignor.)
Saling, Marshall F., Dallas, Tex. Safety car-ladder. No. 987,258; Mar. 21; Sp. p. 3166; Gaz. vol. 164; p. 573.
Salisbury, Charles K., assignor of one-half to Standard Separator Company, Milwaukee, Wis., and one-half to William Galloway Company, Waterloo, Iowa. Spindle-bearing. No. 1,007,803; Nov. 7; Sp. p. 349; Gaz. vol. 172; p. 55.
Salisbury, George P., assignor of one-half to F. H. Simmons, New Haven, Conn. Clutch. No. 992,451; May 16; Sp. p. 3484; Gaz. vol. 166; p. 627.
Salisbury, Newton W., New York, N. Y. Drawing-board. No. 1,002,872; Sept. 12; Sp. p. 1553; Gaz. vol. 170; p. 270.
Salisbury, Orlando B., New York, N. Y. Hair-washing hood. No. 998,803; July 25; Sp. p. 4810; Gaz. vol. 168; p. 869.
Salisbury, Orlando B., New York, N. Y. Hair-washing hood. No. 998,804; July 25; Sp. p. 4813; Gaz. vol. 168; p. 870.
Salmini, Manuel F., Hoboken, N. J. Hanger. No. 1,002,761; Sept. 5; Sp. p. 1290; Gaz. vol. 170; p. 194.
Salmini, Manuel F., Hoboken, N. J. Refrigerator-drain. No. 1,004,913; Oct. 3; Sp. p. 804; Gaz. vol. 171; p. 129.
Salmon, Harry, assignor to The Expanded Metal Company, Limited, Westminster, England. Manufacturing expanded metal. No. 999,264; Aug. 1; Sp. p. 138; Gaz. vol. 169; p. 26.
Salmon, Harry, assignor to The Expanded Metal Company, Limited, Westminster, England. Machine for manufacturing expanded metal. No. 999,265; Aug 1; Sp. p. 139; Gaz. vol. 169; p. 26.
Salom, Pedro G., assignor, by mesne assignments, to Commonwealth Title Insurance and Trust Company, trustee, Philadelphia, Pa. Positive plate for storage batteries and the manufacture thereof. No. 991,897; May 9; Sp. p. 2277; Gaz. vol. 166; p. 406.
Salomon, Frederick, Liverpool, England. Tobacco-stripper. No. 1,003,951; Sept. 19; Sp. p. 3861; Gaz. vol. 170; p. 678.
Salpetersäure Industrie-Gesellschaft, Ges. m. b. H. (See Pauling, Harry, assignor.)
Salsbury, Roy, Enid, Okla. Chopper and thinner for plants. No. 1,011,375; Dec. 12; Sp. p. 2201; Gaz. vol. 173; p. 375.
Salt, Edward W., Birmingham, England. Device or appliance for treating or curing deformations of the foot. No. 1,012,017; Dec. 19; Sp. p. 3647; Gaz. vol. 173; p. 636.
Saltry, James F., *et al.* (See Omalia, Matthew, assignor.)
Saltzer, Andrew, assignor of one-half to M. Ryan, Sawtelle, Cal. Automobile-wheel. No. 1,002,873; Sept. 12; Sp. p. 1555; Gaz. vol. 170; p. 270.
Saltzman, Elmer A., Noble, Iowa. Attachment for knives. No. 1,012,717; Dec. 26; Sp. p. 5142; Gaz. vol. 173; p. 922.
Saltzman, Joseph. (See Schrom, Oscar, assignor.)
Salusbury, Thomas W., Denbigh, England. Tobacco-pipe. No. 1,009,792; Nov. 28; Sp. p. 4784; Gaz. vol. 172; p. 866.
Salzer, Bruno, and G. Walther, Chemnitz, Germany. Open-work pattern device for knitting-machines. No. 987,827; Mar. 28; Sp. p. 4367; Gaz. vol. 164; p. 795.
Samaia, Dino, Venice, Italy. Mechanical block system for tramways. No. 1,011,249; Dec. 12; Sp. p. 1921; Gaz. vol. 173; p. 331.
Samaia, Dino D., Vicenza, Italy. Point-changing apparatus. No. 990,907; May 2; Sp. p. 164; Gaz. vol. 166; p. 31.
Samaia, Dino D., Vicenza, Italy. Spring-switch. No. 1,004,086; Sept. 26; Sp. p. 4217; Gaz. vol. 170; p. 752.
Samaia, Dino D., Vicenza, Italy. Mechanical block system for tramway-lines. No. 1,011,250; Dec. 12; Sp. p. 1922; Gaz. vol. 173; p. 331.
Sammon, David P., New York, N. Y. Feed-basket. No. 986,222; Mar. 7; Sp. p. 964; Gaz. vol 164; p. 157.
Sampere, Jose. (See Carruthers, James, assignor.)
Sample, William M., Wilkinsburg, Pa. Rail-joint. No. 1,008,072; Nov. 7; Sp. p. 916; Gaz. vol. 172; p. 147.
Sampley, John D., Buchanan, N. Mex. Signal-lamp-raising device. No. 1,013,069; Dec. 26; Sp. p. 5947; Gaz. vol. 173; p. 1041.
Sampson, Charles H., assignor to The Defendograph Company, Rochester, N. Y. Check-protector. No. 1,010,180; Nov. 28; Sp. p. 5563; Gaz. vol. 172; p. 996.
Sampson, David E., Graham, N. C. Sash-lock. No. 983,935; Feb. 14; Sp. p. 1483; Gaz. vol. 163; p. 261.
Sampson, George T., assignor to The Geometric Tool Company, New Haven, Conn. Threading device. No. 1,001,893; Aug. 29; Sp. p. 5769; Gaz. vol. 169; p. 1052.
Sampson, Gustave, Montevideo, Minn. Washing-machine. No. 1,012,718; Dec. 26; Sp. p. 5143; Gaz. vol. 173; p. 922.
Samson Cordage Works. (See Tolman and Bixby, assignors.)
Samson Iron Works. (See Kroyer, John M., assignor.)
Samuel Cupples Wooden Ware Company. (See Wallace, Harry B., assignor.)
Samuel Fox and Company. (See Bradbury, John, assignor.)
Samuel J. Shimer & Sons. (See Shimer, Elmer S., assignor.)
Samuel, Jacob, Bonn, Germany. Automatic vending-machine. No. 988,595; Apr. 4; Sp. p. 662; Gaz. vol. 165; p. 106.
Samuel Sternberger Company. (See Paradis, Albert, assignor.)
Samuelson, Charles J., Chicago, Ill. Convertible hoist-bucket. No. 1,007,736; Nov. 7; Sp. p. 179; Gaz. vol. 172; p. 30.
Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Governing mechanism for mixed-pressure turbines. (Reissue.) No. 13,229; Apr. 18; Sp. p. 4100; Gaz. vol. 165; p. 706.
Samuelson, Oscar G., and H. R. Lindquist, Chicago, Ill. Ash-pan. No. 995,913; June 20; Sp. p. 3973; Gaz. vol. 167; p. 690.
Samuelson, William, Brooklyn, N. Y. Strike-plate for door-locks. No 1,001,082; Aug. 22; Sp. p. 4084; Gaz. vol. 169; p. 749.
Samwold, Michael. (See Thibault and Samwold.)
San, Morris, Passaic, assignor to East Jersey Match Company, Garfield, N. J. Machine for cleaning match-splints. No. 985,844; Mar. 7; Sp. p. 182; Gaz. vol. 164; p. 29.
San, Morris, Passaic, assignor to East Jersey Match Company, Garfield, N. J. Machine for straightening match-splints. No. 993,277; May 23; Sp. p. 5233; Gaz. vol. 166; p. 939.
Sanborn, Charlotte R., Somerville, Mass. Receptacle for flowers. No. 980,565; Jan. 3; Sp. p. 848; Gaz. vol. 162; p. 136.
Sanborn, Ellet, assignor of one-half to D. J. Macdonald, Portland, Me. Combined bow rest and lock. No. 1,005,477; Oct. 10; Sp. p. 1974; Gaz. vol. 171; p. 348.
Sanborn, Frank B., Cambridge, Mass. Shaft-speed counter. No. 1,001,692; Aug. 29; Sp. p. 5325; Gaz. vol. 169; p. 983.
Sanborn, Freeman H., Denmark, Me. Trap-nest. No. 1,000,950; Aug. 15; Sp. p. 3725; Gaz. vol. 169; p. 667.
Sanborn, Hamilton, assignor to Globe Chemical Works, San Francisco, Cal. Fume-destroying composition. No. 1,001,992; Aug. 29; Sp. p. 5993; Gaz. vol. 169; p. 1084.
Sancier, Samuel A. (See Suhr, Herman G., assignor.)
Sandberg, August B., Brooklyn, N. Y. Exercising device. No. 1,005,478; Oct. 10; Sp. p. 1975; Gaz. vol. 171; p. 348.
Sandborg, Carl A., Bloomington, Ill. Gate. No. 989,878; Apr. 18; Sp. p. 3398; Gaz. vol. 165; p. 593.
Sandelin, Alfred W., Minneapolis, Minn. Combined rule and protractor. No. 981,598; Jan. 10; Sp. p. 3195; Gaz. vol. 162; p. 521.
Sandell, Henry K., assignor to Mills Novelty Company, Chicago, Ill. Electric music-sheet-feeding device for self-playing instruments. No. 998,264; July 18; Sp. p. 3609; Gaz. vol. 168; p. 647.
Sandell, John F., Chicago, Ill. Device for connecting bamboo. No. 990,599; Apr. 25; Sp. p. 5016; Gaz. vol. 165; p. 874.
Sander, Carl F. (See Kulka, Otto, assignor.)
Sander, Frederick H., Malden, Mass. Portable air-suction cleaning apparatus. No. 984,779; Feb. 21; Sp. p. 3327; Gaz. vol. 163; p. 587.
Sanders, Earl V., Pawnee, Ill. Reel. No. 996,527; June 27; Sp. p. 5333; Gaz. vol. 167; p. 934.
Sanders, Edward A., San Francisco, Cal. Metal window-sash. No. 1,004,545; Sept. 26; Sp. p. 5161; Gaz. vol. 170; p. 908.
Sanders, John M., Rome, Ga. Fertilizer-distributer. No. 1,008,200; Nov. 7; Sp. p. 1180; Gaz. vol. 172; p. 194.
Sanders, John P., St. Louis, Mo. Safety-envelop. No. 985,210; Feb. 28; Sp. p. 4226; Gaz. vol. 163; p. 767.
Sanders, Joseph A., assignor to F. L. Saunders and F. M. Malone, Cayuga, Ind. Metal culvert. No. 1,005,656; Oct. 10; Sp. p. 2401; Gaz. vol. 171; p. 412.
Sanders, Ove B., Key West, Fla. Instrument for use in navigation. No. 988,665; Apr. 4; Sp. p. 805; Gaz. vol. 165; p. 130.
Sanders, Walter E., Cleveland, Ohio. Packing. No. 1,001,693; Aug. 29; Sp. p. 5326; Gaz. vol. 169; p. 983.
Sanders, Walter M., Marion, Ky. Concentrating ores. No. 988,737; Apr. 4; Sp. p. 968; Gaz. vol. 165; p. 153.
Sanders, William Jackson, Tenn. Churn. No. 1,012,446; Dec. 19; Sp. p. 4560; Gaz. vol. 173; p. 781.

Alphabetical list of patentees—Continued.

Sanders, William J., Coalgate, Okla. Railway-switch. No. 989,295; Apr. 11; Sp. p. 2127; Gaz. vol. 165; p. 363.
Sanderson, Harold W., Chiswick, England. Embossing wall-paper. No. 984,443; Feb. 14; Sp. p. 2556; Gaz. vol. 163; p. 433.
Sanderson, James G., and C. B. Sturges, Scranton, Pa. Mine-roof support. No. 981,226; Jan. 10; Sp. p. 2431; Gaz. vol. 162; p. 394.
Sanderson, Peter. (See Paulsen and Sanderson.)
Sanderson, Ray R., Orrville, Ohio. Well-drilling device. No. 993,882; May 30; Sp. p. 6548; Gaz. vol. 166; p. 1180.
Sanderson, Ray R., Orrville, Ohio. Drilling device. No. 1,001,560; Aug. 22; Sp. p. 5028; Gaz. vol. 169; p. 907.
Sanderson, Robert L., assignor to The Bostwick Steel Lath Company, Niles, Ohio. Wall-plug. No. 1,006,290; Oct. 17; Sp. p. 3807; Gaz. vol. 171; p. 667.
Sanderson, William, New York, assignor of one-half to H. F. Weed, Brooklyn, N. Y. Attachment for shovels or spades. No. 1,003,808; Sept. 19; Sp. p. 3526; Gaz. vol. 170; p. 627.
Sandford, Joseph A., Jr., assignor to The R. Thomas and Sons Company, East Liverpool, Ohio. Electric-cable protector. No. 1,010,181; Nov. 28; Sp. p. 5569; Gaz. vol. 172; p. 997.
Sandford, Robert M. (See Cooper, Sandford, and Brady.)
Sandham, Walter E. (See Northam and Sandham.)
Sandholm, Oscar. (See Johnson, Victor, assignor.)
Sandoe, Leroy A., Hope, Ark. Seeding-hoe. No. 991,653; May 9; Sp. p. 1774; Gaz. vol. 166; p. 325.
Sandoe, Leroy A., Hope, Ark. Music-leaf turner. No. 1,012,447; Dec. 19; Sp. p. 4561; Gaz. vol. 173; p. 781.
Sandoe, Leroy A., Hope, Ark. Churn-dasher. No. 1,012,448; Dec. 19; Sp. p. 4562; Gaz. vol. 173; p. 781.
Sands, Byron H., Tulsa, Okla. Pipe-laying mechanism. No. 982,023; Jan. 17; Sp. p. 4140; Gaz. vol. 162; p. 691.
Sands, Edwin. (See Birkin and Sands.)
Sands, Harry Z. (See Sweet, Burton W., assignor.)
Sands, Harry Z., assignor, by mesne assignments, to The Royal Specialty Company, Cleveland, Ohio. Electrically-operated vibrator. No. 1,006,684; Oct. 24; Sp. p. 4686; Gaz. vol. 171; p. 834.
Sands, Louis C., Pittsburg, Pa. Swivel rope-socket for wire-line pumping outfits. No. 982,998; Jan. 31; Sp. p. 6197; Gaz. vol. 162; p. 1081.
Sands, Thomas J., Providence, R. I. Slug or bunch catcher for yarn. No. 1,012,449; Dec. 19; Sp. p. 4564; Gaz. vol. 173; p. 781.
Sandusky Foundry and Machine Company, The. (See Dowell, Osgood H., assignor.)
Sandusky Foundry & Machine Company, The. (See Millspaugh, William H., assignor.)
Sandvik, Albert, Tagus, N. D. Coin-deliverer. No. 983,088; Jan. 31; Sp. p. 6400; Gaz. vol. 162; p. 1112.
Sandwich Electric Company. (See Rugh, Harry O., assignor.)
Sandwisch, Fredrick, Woodville, Ohio. Hoisting apparatus and portable mount therefor. No. 988,034; Mar. 28; Sp. p. 4876; Gaz. vol. 164; p. 867.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Burner for fire-polishing glassware. No. 993,554; May 30; Sp. p. 5851; Gaz. vol. 166; p. 1067.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Fire-polishing glassware. No. 993,555; May 30; Sp. p. 5852; Gaz. vol. 166; p. 1067.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Forming burners for fire-polishing. No. 995,914; June 20; Sp. p. 3975; Gaz. vol. 167; p. 690.
Sanford-Day Iron Works. (See Kehr, Cyrus, assignor.)
Sanford, Frank C. (See Brion and Sanford.)
Sanford, Frank C., Bridgeport, Conn. Clutch. No. 981,885; Jan. 17; Sp. p. 3798; Gaz. vol. 162; p. 642.
Sanford, George E., E. W. Kopke, and H. E. Procunier, assignors to International Clarifying Company, Chicago, Ill. Centrifugal separator. No. 984,242; Feb. 14; Sp. p. 2153; Gaz. vol. 163; p. 365.
Sanford, George E., E. W. Kopke, and H. E. Procunier, assignors to International Clarifying Company, Chicago, Ill. Centrifugal separator. No. 992,809; May 23; Sp. p. 4233; Gaz. vol. 166; p. 781.
Sanford, Harry E., assignor to The Milton Bradley Company, Springfield, Mass. Toy pistol. No. 1,012,719; Dec. 26; Sp. p. 5145; Gaz. vol. 173; p. 922.
Sanford, Hugh W., Knoxville, Tenn. Car-coupling. No. 982,999; Jan. 31; Sp. p. 6200; Gaz. vol. 162; p. 1081.
Sanford, Joseph R., assignor to The Flexible Rubber Goods Company, Salisbury, Conn. Suction-tread. No. 989,514; Apr. 11; Sp. p. 2576; Gaz. vol. 165; p. 436.
Sanford Manufacturing Company, The. (See Peck, Ira F., assignor.)
Sanford, William C., Kent, Wash. Amusement device. No. 1,002,874; Sept. 12; Sp. p. 1556; Gaz. vol. 170; p. 271.
Sangamo Electric Company. (See Lanphier, Robert C., assignor.)
Sangamo Electric Company. (See Young, Herbert W., assignor.)
Sanger Nozzle Company. (See Canner, William H., assignor.)
Sangers, John C., Cleveland, Ohio. Clothes-stick. No. 990,908; May 2; Sp. p. 167; Gaz. vol. 166; p. 31.
Sanguinetti, Luke, Vallicita, Cal. Device for raising sunken vessels. No. 998,403; July 18; Sp. p. 3944; Gaz. vol. 168; p. 699.
Sanguinetti, Luke, Vallecito, Cal. Brake-lock. No. 1,005,577; Oct. 10; Sp. p. 2232; Gaz. vol. 171; p. 384.
Sanitary Cement Company. (See Jones, Harley H., assignor.)
Sanitary Fountain and Vending Machine Company, The. (See Robbins, Rolland, assignor.)
Sanitary Hair Goods Company, The. (See Stephens, Charles N., assignor.)
Sanitary Paper Bottle Company. (See Nazel, John, assignor.)
Sanitary Repository Company. (See Berkeley, Wales O., assignor.)
Sanitary Safety Razor Company. (See Perez, Fernando, assignor.)
Sanitary Steel Couch Company. (See Grotenhuis, William J., assignor.)
Sann, Otto, assignor to The Lorain Steel Company, Johnstown, Pa. Switch-tongue-actuating mechanism. No. 991,752; May 9; Sp. p. 1980; Gaz. vol. 166; p. 356.
Sanneman, Diedrich, and E. S. Mayland, New York, assignors to R. H. Mayland Theatrical and Specialty Manufacturing Company, Brooklyn, N. Y. Ticket-delivering apparatus. No. 989,647; Apr. 18; Sp. p. 2913; Gaz. vol. 165; p. 514.
Sanner, Harry W., Baltimore, Md. Support for conveyers. No. 987,325; Mar. 21; Sp. p. 3316; Gaz. vol. 164; p. 595.
Sanner, Harry W., Baltimore, Md. Combined chute and screener. No. 990,600; Apr. 25; Sp. p. 5018; Gaz. vol. 165; p. 874.
Sansbury, Albert C. (See Crowder and Sansbury.)
Santi, Juan. (See Rubello and Santi.)
Saphiloff, Arthem I., New York, N. Y. Skin-cleanser. No. 1,011,498; Dec. 12; Sp. p. 2468; Gaz. vol. 173; p. 421.
Sappington, Elijah E., Spokane, Wash. Automobile power mechanism. No. 993,556; May 30; Sp. p. 5855; Gaz. vol. 166; p. 1067.
Sappington, Merrick W., and E. S. Hornbeek, Winchester, Ill. Front driving and steering mechanism for motor-vehicles. No. 990,073; Apr. 18; Sp. p. 3802; Gaz. vol. 165; p. 658.
Saracco, Pietro, Saluzzo, Italy. Apparatus for rewinding silk. No. 980,682; Jan. 3; Sp. p 1100; Gaz. vol. 162; p. 176.
Saracco, Pietro, Saluzzo, Italy. Apparatus for preparing thrown silk or warp in a single operation. No. 981,122; Jan. 10; Sp. p. 2167; Gaz. vol. 162; p. 357.
Sarason, Leopold, Hirschgarten, near Berlin, Germany. Preparation for slowly liberating oxygen. No. 1,000,298; Aug. 8; Sp. p. 2294; Gaz. vol. 169; p. 406.
Sargeant, Arthur L., Attica, Ind. Nut-lock. No. 990,065; Apr. 18; Sp. p. 3789; Gaz. vol. 165; p. 656.
Sargent, Allan C., Lowell, Mass. Device for truing up the valves of gas-engines, &c. No. 983,571; Feb. 7; Sp. p. 693; Gaz. vol. 163; p. 107.
Sargent, Allan C., Westford, Mass. Priming device for gas-engines. No. 1,009,185; Nov. 21; Sp. p. 3451; Gaz. vol. 172; p. 610.
Sargent, Allan C., Westford, Mass. Jack. No. 1,009,186; Nov. 21; Sp. p. 3453; Gaz. vol. 172; p. 610.
Sargent, Allan C., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Hollow-shaft construction. No. 1,012,018; Dec. 19; Sp. p. 3649; Gaz. vol. 173; p. 636.
Sargent, Charles G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Carrier for washing-bowls. No. 1,004,595; Oct. 3; Sp. p. 102; Gaz. vol. 171; p. 18.
Sargent & Co. (See Collins, Herbert G., assignor.)
Sargent & Co. (See Page, Albert A., assignor.)
Sargent & Co. (See Sparks and Collins, assignors.)
Sargent & Company. (See Broderick, David F., assignor.)
Sargent & Company. (See Sparks and Shaw, assignors.)
Sargent, Fitz W., Mahwah, N. J., assignor to E. H. Fallows, New York, N. Y. Brake-shoe. No. 1,001,083; Aug. 22; Sp. p. 4085; Gaz. vol. 169; p. 749.
Sargent, Frederick, assignor of one-half to O. E. Oleson, Chicago, Ill. Coupling pipes. No. 986,506; Mar. 14; Sp. p. 1596; Gaz. vol. 164; p. 284.
Sargent, Frederick G., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Wool-washing machine. No. 981,123; Jan. 10; Sp. p. 2168; Gaz. vol. 162; p. 357.
Sargent, Frederick G., assignor to C. G. Sargent's Sons Corporation, Westford, Mass. Parallel rake-motion for wool-washing machines. No. 982,094; Jan. 17; Sp. p. 4286; Gaz. vol. 162; p. 714.
Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Wool-washer. No. 1,003,809; Sept. 19; Sp. p. 3526; Gaz. vol. 170; p. 627.
Sargent, Frederick G., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Endless conveyer. No. 1,011,251; Dec. 12; Sp. p. 1924; Gaz. vol. 173; p. 331.
Sargent, Henry D., Worcester, assignor to T. Martin & Brother Manufacturing Company, Chelsea, Mass. Garment-loop. No. 999,878; Aug. 8; Sp. p. 1358; Gaz. vol. 169; p. 262.

Alphabetical list of patentees—Continued.

Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 981,692; Jan. 17; Sp. p. 3401; Gaz. vol. 162; p. 574.
Sargent, Howard R., Schenectady, N. Y., assignor to General Electric Company. Fuse-plug. No. 1,001,694; Aug. 29; Sp. p. 5328; Gaz. vol. 169; p. 984.
Sargent, John W., Providence, R. I. Engine-governor. No. 986,762; Mar. 14; Sp. p. 2137; Gaz. vol. 164; p. 372.
Sargent, John W., Providence, R. I. Stop-motion for steam-engines and other prime movers. No. 989,062; Apr. 11; Sp. p. 1625; Gaz. vol. 165; p. 284.
Sargent, John W., Providence, R. I. Stop-motion for steam-engines and other prime movers. (Reissue.) No. 13,333; Dec. 5; Sp. p. 1635; Gaz. vol. 173; p. 259.
Sargent, L. P. (See Kellum, Orlando E., assignor.)
Sargent, Wellington G. (See O'Brien and Sargent.)
Sargent, William H., Beaumont, Tex. Non-refillable bottle. No. 990,298; Apr. 25; Sp. p. 4315; Gaz. vol. 165; p. 768.
Sargent, William P., assignor to The Curtis Publishing Company, Philadelphia, Pa. Wrapping-machine. No. 1,006,009; Oct. 17; Sp. p. 3153; Gaz. vol. 171; p. 567.
Sargent, William P., assignor to The Curtis Publishing Company, Philadelphia, Pa. Paster for wrappers and the like. No. 1,008,616; Nov. 14; Sp. p. 2242; Gaz. vol. 172; p. 381.
Sark, Harry, Bluffton, Ind. Oil-well-valve raiser. No. 1,003,207; Sept. 12; Sp. p. 2259; Gaz. vol. 170; p. 388.
Sarlis, Theodore, Jeffersontown, assignor of one-half to H. J. Reeb and one-half to G. W. Lawrence, Louisville, Ky. Weather-boarding tool. No. 995,574; June 20; Sp. p. 3231; Gaz. vol. 167; p. 571.
Sartig, Johannes, Nikolassee, near Berlin, Germany. Removing nicotin from tobacco. No. 999,674; Aug. 1; Sp. p. 942; Gaz. vol. 169; p. 165.
Sartor, Frank R., Munice, Ind. Water-tube boiler. No. 1,003,297; Sept. 12; Sp. p. 2439; Gaz. vol. 170; p. 420.
Sartori, Francesco, Monteponi, assignor to Societa di Monteponi, Turin, Italy. Electric furnace. No. 993,414; May 30; Sp. p. 5540; Gaz. vol. 166; p. 1018.
Sasaman, Frank P., Pittston, Pa. Emergency slide-valve actuator for locomotives. No. 983,089; Jan. 31; Sp. p. 6402; Gaz. vol. 162; p. 1112.
Sasgen, Michael J., Chicago, Ill. Derrick. No. 988,035; Mar. 28; Sp. p. 4879; Gaz. vol. 164; p. 867.
Sasgen, Michael J., Chicago, Ill. Derrick. No. 989,430; Apr. 11; Sp. p. 2414; Gaz. vol. 165; p. 407.
Sato, Ryuji, Chicago, Ill. Rolling toy. No. 991,898; May 9; Sp. p. 2279; Gaz. vol. 166; p. 406.
Sato, Ryuji, Seattle, Wash. Garment. No. 998,122; July 18; Sp. p. 3312; Gaz. vol. 168; p. 597.
Sato, Ryuji, Chicago, Ill. Ball-game device. No. 1,008,073; Nov. 7; Sp. p. 917; Gaz. vol. 172; p. 147.
Sattler, Firm of F. A. (See Walther, Emil, assignor.)
Sattley, Frederick L., Indianapolis, Ind. Coin-sorter. No. 990,909; May 2; Sp. p. 167; Gaz. vol. 166; p. 32.
Sattley, Frederick L., Indianapolis, Ind. Coin-packager. No. 990,910; May 2; Sp. p. 171; Gaz. vol. 166; p. 32.
Sattley, Frederick L., Indianapolis, Ind. Coin-sorter. No. 990,911; May 2; Sp. p. 179; Gaz. vol. 166; p. 33.
Sattley, Frederick L., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 989,296; Apr. 11; Sp. p. 2129; Gaz. vol. 165; p. 363.
Sattley, Frederick L., assignor to The Indiana Manufacturing Company, Indianapolis, Ind. Pneumatic stacker. No. 997,936; July 11; Sp. p. 2866; Gaz. vol. 168; p. 489.
Saucier, Loren, Jr., Saucier, Miss. Metallic railway-tie. No. 1,009,932; Nov. 28; Sp. p. 5052; Gaz. vol. 172; p. 912.
Sauer, Adelbert, Pittsburgh, Pa. Suction apparatus. No. 1,006,291; Oct. 17; Sp. p. 3808; Gaz. vol. 171; p. 667.
Sauer, Adelbert, Pittsburgh, Pa. Furnace attachment. No. 1,010,182; Nov. 28; Sp. p. 5570; Gaz. vol. 172; p. 997.
Sauer, Augusta, executrix. (See Sauer, William C.)
Sauer, Frederick H., New York, N. Y. Air-valve. No. 994,481; June 6; Sp. p. 775; Gaz. vol. 167; p. 132.
Sauer, George F. (See Kauffmann, Lou B., assignor.)
Sauer, George H. (See Crawford and Sauer.)
Sauer, William C., deceased, Pearlbeach, Mich.; A. Sauer, executrix, assignor of one-half to H. H. Prenzlauer. Reinforced concrete structure. No. 988,951; Apr. 4; Sp. p. 1379; Gaz. vol. 165; p. 221.
Sauers, John. (See Rosenzweig, Charles, assignor.)
Saul, Charles T. (See Johnson, Walter H., assignor.)
Saul, Harry J. (See Rhoads, James, assignor.)
Saul, Marcus, New York, N. Y. Bunion and corn protector. No. 1,006,134; Oct. 17; Sp. p. 3436; Gaz. vol. 171; p. 610.
Saul, Warren A., Bridgeport, Conn. Composite railway-tie. No. 1,001,894; Aug. 29; Sp. p. 5772; Gaz. vol. 169; p. 1052.
Saul, William, *et al.* (See Ziringer, Roscoe C., assignor.)
Saum, Robert J., assignor to The Western Tool and Manufacturing Company, Springfield, Ohio. Tool-holder. No. 983,461; Feb. 7; Sp. p. 436; Gaz. vol. 163; p. 70.
Saunders, David H., Gloucester, Mass., assignor to Massachusetts Net Company. Shuttle. No. 992,452; May 16; Sp. p. 3486; Gaz. vol. 166; p. 627.
Saunders, Forris L., *et al.* (See Sanders, Joseph A., assignor.)

Saunders, Frederick, Norfolk, Va. Combined hat and receptacle. No. 999,404; Aug. 1; Sp. p. 419; Gaz. vol. 169; p. 74.
Saunders, Joseph E., Ovid, Colo. Centrifugal water-lifting pump. No. 981,007; Jan. 10; Sp. p. 1912; Gaz. vol. 162; p. 316.
Saunders, Mary F. (See Combs, Hiram S., assignor.)
Saunders, Thomas, and H. P. Chase, Pentwater, Mich. Net-lifting apparatus. No. 1,002,762; Sept. 5; Sp. p. 1291; Gaz. vol. 170; p. 194.
Saurer, Firm of Adolph. (See Keller, Karl, assignor.)
Saurer, Firm of Adolph. (See Kobler, Victor, assignor.)
Saurug, Joseph, New York, N. Y. Switch-operating apparatus. No. 992,261; May 16; Sp. p. 3077; Gaz. vol. 166; p. 561.
Saussard, Louis, Paris, France. Valve mechanism. No. 1,007,609; Oct. 31; Sp. p. 6723; Gaz. vol. 171; p. 1210.
Sauter, Henry, *et al.* (See Ledford, Edward, assignor.)
Sauter, John. (See Hart, Harry M., assignor.)
Sauters, Joseph L., Chicago, Ill. Freight lowering and hoisting apparatus. No. 982,881; Jan. 31; Sp. p. 5946; Gaz. vol. 162; p. 1043.
Sautter, Charles F., deceased, Jamaica; M. T. Sautter, administratrix, Brooklyn, N. Y. Combination turntable and jack for automobiles. No. 1,000,199; Aug. 8; Sp. p. 2091; Gaz. vol. 169; p. 372.
Sautter, Mary T., administratrix. (See Sautter, Charles F.)
Sauvage, William H., New York, N. Y. Safety signal device for fluid-pressure-brake systems. No. 1,001,084; Aug. 22; Sp. p. 4088; Gaz. vol. 169; p. 749.
Sauvage, William H., New York, N. Y. Fluid-pressure brake system. No. 1,012,720; Dec. 26; Sp. p. 5146; Gaz. vol. 173; p. 922.
Sauvé, Stanislaus H., Denver, Colo. Electromagnetic signaling instrument. No. 1,009,345; Nov. 21; Sp. p. 3838; Gaz. vol. 172; p. 668.
Sauveur, Albert, Cambridge, Mass. Microscope-bridge and electromagnetic stage. No. 1,007,978; Nov. 7; Sp. p. 732; Gaz. vol. 172; p. 115.
Savage Arms Company. (See Chadwick, Francis C., assignor.)
Savage, Arthur, assignor to Ty-Sa-Man Machine Company, Knoxville, Tenn. Alarm feed-regulator and speed-indicator. No. 984,780; Feb. 21; Sp. p. 3330; Gaz. vol. 163; p. 587.
Savage, Charles P., and J. W. Silver, Tacoma, Wash. Aeroplane. No. 990,011; Apr. 18; Sp. p. 3687; Gaz. vol. 165; p. 639.
Savage, Edward. (See Russell and Savage.)
Savage, Edward S., Rochester, N. Y. Vegetable-masher. No. 990,393; Apr. 25; Sp. p. 4546; Gaz. vol. 165; p. 802.
Savage, Frederic W., Granville, N. Y. Knit or woven fabric or felted boot. No. 993,203; May 23; Sp. p. 5086; Gaz. vol. 166; p. 917.
Savage, George E., assignor to Manning, Bowman & Company, Meriden, Conn. Percolator-pot. No. 992,262; May 16; Sp. p. 3080; Gaz. vol. 166; p. 561.
Savage, Herbert, Lowell, Mass. Faucet attachment. No. 997,858; July 11; Sp. p. 2690; Gaz. vol. 168; p. 462.
Savage, Hugh, Seraing, Belgium. Armor-plate. No. 1,013,070; Dec. 26; Sp. p. 5949; Gaz. vol. 173; p. 1041.
Savage, John W., Silver, Tex. Buckle connection. No. 987,326; Mar. 21; Sp. p. 3317; Gaz. vol. 164; p. 596.
Savage, Ray T., San Francisco, Cal. Transom-lifter. No. 993,719; May 30; Sp. p. 6223; Gaz. vol. 166; p. 1125.
Savage, Walter E., Bellaire, Ohio. Machine for making bottle-blanks. No. 1,011,647; Dec. 12; Sp. p. 2847; Gaz. vol. 173; p. 475.
Savelsberg, Carl, Aachen, Germany. Means for closing pit-mouths. No. 995,096; June 13; Sp. p. 2200; Gaz. vol. 167; p. 382.
Savelsberg, Josef. (See Wannschaff and Savelsberg.)
Savill, Samuel. (See Chandler, Carl B., assignor.)
Saville, Francis, Chicago, Ill. Reaming attachment for die-stocks. No. 991,092; May 2; Sp. p. 549; Gaz. vol. 166; p. 95.
Savino, Camillo, New York, N. Y. Non-refillable bottle. No. 980,841; Jan. 3; Sp. p. 1415; Gaz. vol. 162; p. 227.
Savino, Camillo, New York, N. Y. Non-refillable bottle. No. 1,004,691; Oct. 3; Sp. p. 303; Gaz. vol. 171; p. 52.
Savoia, Pietro, Turin, Italy. Resilient wheel. No. 981,124; Jan. 10; Sp. p. 2170; Gaz. vol. 162; p. 357.
Savoie, Emile L., New Iberia, La. Gusher and blow-out preventer. No. 1,009,998; Nov. 28; Sp. p. 5203; Gaz. vol. 172; p. 934.
Savoie, Joseph, Central Falls, R. I. Eye-testing machine. No. 988,036; Mar. 28; Sp. p. 4881; Gaz. vol. 164; p. 867.
Savoie, Joseph, Central Falls, assignor of one-half to E. C. Glines, Providence, R. I. Temple-bow holder for frameless spectacles. No. 988,666; Apr. 4; Sp. p. 806; Gaz. vol. 165; p. 130.
Savoie, Joseph Z., Providence, R. I. Engine. No. 981,316; Jan. 10; Sp. p. 2615; Gaz. vol. 162; p. 425.
Sawbridge, John, *et al.* (See Emmons, Charles, assignor.)
Sawicki, Norbert, New York, N. Y., assignor of one-third to L. W. Schwenk, Brooklyn, N. Y. Horseshoe. No. 1,000,951; Aug. 15; Sp. p. 3726; Gaz. vol. 169; p. 667.
Sawtelle, Henry F., Leominster, Mass. Fire-extinguisher. No. 991,376; May 2; Sp. p. 1178; Gaz. vol. 166; p. 196.
Sawyer, Bertie, Empire, Ga. Planter. No. 1,004,692; Oct. 3; Sp. p. 305; Gaz. vol. 171; p. 52.

Alphabetical list of patentees—Continued.

Sawyer, Charles H., Minneapolis, Minn. Boat. No. 984,444; Feb. 14; Sp. p. 2557; Gaz. vol. 163; p. 433.
Sawyer, Edward A., Cincinnati, Ohio. Apparatus for making decoctions. No. 1,000,693; Aug. 15; Sp. p. 3196; Gaz. vol. 169; p. 578.
Sawyer, Frank M., Los Angeles, Cal. Mold. No. 1,004,693; Oct. 3; Sp. p. 306; Gaz. vol. 171; p. 52.
Sawyer, Frank M., Los Angeles, Cal. Wall construction. No. 1,004,694; Oct. 3; Sp. p. 308; Gaz. vol. 171; p. 53.
Sawyer, Frank M., Los Angeles, Cal. Wall construction. No. 1,009,441; Nov. 21; Sp. p. 4079; Gaz. vol. 172; p. 703.
Sawyer, Harry, Muskegon, Mich. Switch construction for overhead-trolley tracks. No. 1,000,124; Aug. 8; Sp. p. 1930; Gaz. vol. 169; p. 347.
Sawyers, James R., Dexter, Iowa. Windmill. No. 992,067; May 9; Sp. p. 2604; Gaz. vol. 166; p. 463.
Sax, Jacob B., *et al.* (See Eisenbeis, Louis P., assignor.)
Sax, Joseph, assignor of one-half to A. P. Patersen, Brooklyn, N. Y. Sculling apparatus for boats. No. 1,003,516; Sept. 19; Sp. p. 2883; Gaz. vol. 170; p. 527.
Saxer, Albert P. (See Tanner and Saxer.)
Saxon, William J., Paterson, N. J. Snow-melter. No. 986,946; Mar. 14; Sp. p. 2520; Gaz. vol. 164; p. 435.
Saxton, Charles D., Boise, Idaho. Water-supply system for houses, &c. No. 989,648; Apr. 18; Sp. p. 2915; Gaz. vol. 165; p. 514.
Saxton, George W. B., and W. B. H. Fairchild, Yreka, Cal.; said Fairchild assignor to said Saxton. Separator. No. 1,001,774; Aug. 29; Sp. p. 5498; Gaz. vol. 169; p. 1010.
Saxton, Lionel D., New York, N. Y. Safety-razor. No. 1,009,101; Nov. 21; Sp. p. 3281; Gaz. vol. 172; p. 581.
Saxton, Oliver G., Lucerne, assignor of one-fourth to D. R. Kinney, Greeley, Colo. Device for dislodging insects from vines. No. 1,012,450; Dec. 19; Sp. p. 4565; Gaz. vol. 173; p. 782.
Saxton, Samuel S. (See Kasson and Saxton.)
Saybolt, George M., Jersey City, assignor to Standard Oil Company, Bayonne, N. J. Obtaining naphtha from natural gas. No. 989,927; Apr. 18; Sp. p. 3505; Gaz. vol. 165; p. 610.
Sayer, Robert C., Redland, Bristol, England. Railway, road, water, and like traffic system. No. 1,001,170; Aug. 22; Sp. p. 4239; Gaz. vol. 169; p. 776.
Sayer, Robert C., Bristol, England. Gearing. No. 1,004,205; Sept. 26; Sp. p. 4483; Gaz. vol. 170; p. 794.
Sayers, Joseph, W. A. Wilson, and J. Thorburn, Ardeer, Scotland, assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 995,187; June 13; Sp. p. 2371; Gaz. vol. 167; p. 411.
Sayers, Joseph, W. A. Wilson, and J. Thorburn, Ardeer, Scotland, assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 995,373; June 13; Sp. p. 2774; Gaz. vol. 167; p. 473.
Sayers, Joseph, W. A. Wilson, and J. Thorburn, Ardeer, Scotland, assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 995,374; June 13; Sp. p. 2775; Gaz. vol. 167; p. 473.
Sayers, Joseph, W. A. Wilson, and J. Thorburn, Ardeer, Scotland, assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 995,375; June 13; Sp. p. 2777; Gaz. vol. 167; p. 473.
Sayers, Joseph, W. A. Wilson, and J. Thorburn, Ardeer, Scotland, assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Explosive. No. 995,376; June 13; Sp. p. 2778; Gaz. vol. 167; p. 473.
Sayles, Alpheus, Independence, Iowa. Lawn-mower. No. 984,445; Feb. 14; Sp. p. 2559; Gaz. vol. 163; p. 433.
Sayles, Henry, New York, N. Y. Fly-trap. No. 988,146; Mar. 28; Sp. p. 5091; Gaz. vol. 164; p. 903.
Sayles, Henry W., assignor of one-third to H. I. Waggoner, Peoria, Ill. Safety appliance for elevators. No. 982,536; Jan. 24; Sp. p. 5212; Gaz. vol. 162; p. 899.
Sayles, Thomas J., Hackensack, N. J. Alining and measuring table for use by printers. No. 997,418; July 11; Sp. p. 1707; Gaz. vol. 168; p. 310.
Sayles, Whitman H. (See Woods and Sayles.)
Saylor, Benjamin F. A., Rome, Ga. Making paper-pulp. No. 1,004,473; Sept. 26; Sp. p. 5022; Gaz. vol. 170; p. 884.
Saylor, Franklin G., Quincy, Mass. Underfeed stoker. No. 1,001,456; Aug. 22; Sp. p. 4839; Gaz. vol. 169; p. 873.
Saylor, Harry E., H. S. Hedrick, and F. P. Gladfelter, Canal Winchester, Ohio. Brake for railway-cars. No. 994,791; June 13; Sp. p. 1512; Gaz. vol. 167; p. 278.
Saylor, John R., Pottstown, Pa. Chuck. No. 1,008,926; Nov. 14; Sp. p. 2885; Gaz. vol. 172; p. 484.
Sayre, Charles A., Olcott, W. Va. Valve. No. 994,955; June 13; Sp. p. 1902; Gaz. vol. 167; p. 334.
Sayre, Charles F. (See Abbott, George N., assignor.)
Sayre, Theodore J., Newark, N. J. Device for clipping hats. No. 1,003,810; Sept. 19; Sp. p. 3528; Gaz. vol. 170; p. 628.
Scadding, Frederick C., Cleveland, Ohio. Monogram-embossing press. No. 980,683; Jan. 3; Sp. p. 1102; Gaz. vol. 162; p. 176.
Scaife, Arthur J., assignor to The White Company, Cleveland, Ohio. Carbureter. No. 998,123; July 18; Sp. p. 3313; Gaz. vol. 168; p. 597.
Scaife, John F., and F. J. Huetger, Philadelphia, Pa. Cigar-bunching machine. No. 1,006,685; Oct. 24; Sp. p. 4687; Gaz. vol. 171; p. 835.
Scaife, John F., and F. J. Huetger, Philadelphia, Pa. Cigar-bunching machine. No. 1,011,252; Dec. 12; Sp. p. 1925; Gaz. vol. 173; p. 332.
Scanlan, Edward T., Washington, D. C. Smoking-tube. No. 999,342; Aug. 1; Sp. p. 284; Gaz. vol. 169; p. 53.
Scanlan, Robert M., assignor of one-half to J. B. Shepler, Toledo, Ohio. Multiple-ply-paper-board-making machine. No. 997,011; July 4; Sp. p. 895; Gaz. vol. 168; p. 142.
Scanlon, John T., New York, N. Y. Key. No. 997,510; July 11; Sp. p. 1885; Gaz. vol. 168; p. 339.
Scanlon, Martin A., Montezuma, N. Y. Covering attachment for hand corn-planters. No. 985,637; Feb. 28; Sp. p. 5162; Gaz. vol. 163; p. 912.
Scantlin, Thomas H., Chanute, Kans. Nail-pouch. No. 992,810; May 23; Sp. p. 4237; Gaz. vol. 166; p. 782.
Scaramella, Alberto, New Haven, Conn. Ice-creeper. No. 986,763; Mar. 14; Sp. p. 2138; Gaz. vol. 164; p. 372.
Scaramuzzi, Antony T., assignor of one-half to P. Sacco, Paterson, N. J. Vehicle-wheel tire. No. 989,431; Apr. 11; Sp. p. 2416; Gaz. vol. 165; p. 407.
Scarborough, Henry, Sr. (See Krause, Hermann, assignor.)
Scarborough, Mary E., Oklahoma, Okla. Reflecting-mirror for locomotives. No. 1,010,690; Dec. 5; Sp. p. 632; Gaz. vol. 173; p. 101.
Scardaccione, Eduardo, New York, N. Y. Music-leaf turner. No. 986,764; Mar. 14; Sp. p. 2139; Gaz. vol. 164; p. 373.
Scarff, Tullie J., New Carlisle, Ohio. Harness-fastener. No. 996,283; June 27; Sp. p. 4802; Gaz. vol. 167; p. 851.
Scatchard, Herbert F., Darby, assignor of one-half to J. S. Latta, Philadelphia, Pa. Switch-operating device. No. 981,886; Jan. 17; Sp. p. 3800; Gaz. vol. 162; p. 643.
Scelza, Frank, Harrison, N. Y. Door-jamb setter. No. 1,003,517; Sept. 19; Sp. p. 2885; Gaz. vol. 170; p. 527.
Schaaff, John T., Washington, D. C., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 992,263; May 16; Sp. p. 3082; Gaz. vol. 166; p. 562.
Schaaff, John T., Washington, D. C., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 997,010; July 4; Sp. p. 891; Gaz. vol. 168; p. 142.
Schaaff, John T., Washington, D. C., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 999,879; Aug. 8; Sp. p. 1359; Gaz. vol. 169; p. 263.
Schaake, Henry. (See Cowie, John T., assignor.)
Schaake, William, Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric locomotive. No. 981,799; Jan. 17; Sp. p. 3604; Gaz. vol. 162; p. 612.
Schaake, William, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Strain-insulator. No. 1,010,077; Nov. 28; Sp. p. 5372; Gaz. vol. 172; p. 963.
Schacht, Gustave A., Cincinnati, Ohio. Friction-clutch mechanism. No. 986,947; Mar. 14; Sp. p. 2521; Gaz. vol. 164; p. 435.
Schack, Joseph, Chicago, Ill. Artificial decoration. No. 992,068; May 9; Sp. p. 2606; Gaz. vol. 166; p. 463.
Schäcke, Ferdinand, Cologne, Germany. Making manure. No. 993,463; May 30; Sp. p. 5648; Gaz. vol. 166; p. 1034.
Schad, Albert E., Bellefonte, Pa. Duplex force-feed lubricator. No. 991,547; May 9; Sp. p. 1550; Gaz. vol. 166; p. 287.
Schade, Albert F., assignor to Stanley Rule and Level Company, New Britain, Conn. Chuck. No. 986,647; Mar. 14; Sp. p. 1895; Gaz. vol. 164; p. 335.
Schade, Albert F., assignor to Stanley Rule & Level Company, New Britain, Conn. Bit-brace chuck. No. 995,808; June 20; Sp. p. 3756; Gaz. vol. 167; p. 655.
Schade, Edmund A. (See Bodmer and Schade.)
Schade, Edmund A., assignor to The Stanley Rule & Level Company, New Britain, Conn. Connection for bit-brace bows. No. 981,693; Jan. 17; Sp. p. 3403; Gaz. vol. 162; p. 575.
Shade, Edmund A., assignor to The Stanley Rule & Level Company, New Britain, Conn. Plane. No. 987,081; Mar. 14; Sp. p. 2757; Gaz. vol. 164; p. 477.
Schade, John, Jr., New York, N. Y., assignor to Fahnestock Electric Company. Spring fastening device. No. 985,288; Feb. 28; Sp. p. 4411; Gaz. vol. 163; p. 794.
Schade, John, Jr., New York, assignor to Fahnestock Electric Company, Brooklyn, N. Y. Spring fastening device. No. 1,005,323; Oct. 10; Sp. p. 1645; Gaz. vol. 171; p. 295.
Schade, John, Jr., New York, N. Y., assignor to Fahnestock Electric Company. Spring fastening device. No. 1,005,786; Oct. 10; Sp. p. 2653; Gaz. vol. 171; p. 457.
Schadel, William E., assignor of one-third to C. R. Geisler, one-sixth to A. Mertz, Pittsburg, and one-sixth to J. Geisler, Mount Oliver borough, Pa. Combined door hanger and track. No. 984,110; Feb. 28; Sp. p. 1863; Gaz. vol. 163; p. 320.
Schaef, Arthur W., Wellington, New Zealand. Aeroplane. No. 985,375; Feb. 28; Sp. p. 4581; Gaz. vol. 163; p. 822.
Schaefer, Arthur E. (See Dow, Gates, and Schaefer.)

Schaefer, August C., Oelwein, Iowa. Means for swinging hammocks. No. 1,003,208; Sept. 12; Sp. p. 2260; Gaz. vol. 170; p. 388.
Schaefer, August W., New York, N. Y. Baggage-tag. No. 989,297; Apr. 11; Sp. p. 2130; Gaz. vol. 165; p. 364.
Schaefer, Charles A., Galion, Ohio. Show-case. No. 1,002,543; Sept. 5; Sp. p. 810; Gaz. vol. 170; p. 118.
Schaefer, Frank M. (See Wolff and Schaefer.)
Schaefer, Frederic, Wheeling, W. Va., and J. A. Lynch, Ely, Nev. Removable egg-case partition. No. 1,000,694; Aug. 15; Sp. p. 3199; Gaz. vol. 169; p. 578.
Schaefer, Joseph E., Jr., Detroit, Mich. Spark-plug. No. 995,989; June 20; Sp. p. 4121; Gaz. vol. 167; p. 717.
Schaefer, Louis J., and W. T. Thomson, Chicago, Ill. Inkwell. No. 1,008,074; Nov. 7; Sp. p. 918; Gaz. vol. 172; p. 147.
Schaefer, Theodore W., assignor of two-fifths to E. A. Baumle, Burlington, Iowa. Fence-post construction. No. 1,003,660; Sept. 19; Sp. p. 3211; Gaz. vol. 170; p. 578.
Schaeffer, August, Frankfort-on-the-Main, Germany. Hot-air producer and blower. No. 999,880; Aug. 8; Sp. p. 1367; Gaz. vol. 169; p. 263.
Schafer, Frank, Ronda, N. C. Wood-splint-cutting machine. No. 987,174; Mar. 21; Sp. p. 2983; Gaz. vol. 164; p. 542.
Schafer, Frank F., Memphis, Tenn. Refrigerator. No. 985,458; Feb. 28; Sp. p. 4788; Gaz. vol. 163; p. 851.
Schafer, Jey G., Brighton, Iowa. Electrical signaling device. No. 983,403; Feb. 7; Sp. p. 310; Gaz. vol. 163; p. 53.
Schaffer, Martin R., Reading, Pa. Screen for sinks. No. 998,404; July 18; Sp. p. 3946; Gaz. vol. 168; p. 699.
Schaffert, Adolf H., Youngstown, Ohio. Metal-furniture construction. No. 1,008,075; Nov. 7; Sp. p. 919; Gaz. vol. 172; p. 148.
Schaffert, Adolf H., assignor to The General Fireproofing Company, Youngstown, Ohio. Drawer-locking mechanism. No. 1,006,983; Oct. 24; Sp. p. 5344; Gaz. vol. 171; p. 937.
Schaffnit, Arthur H., St. Louis, Mo. Ball-bearing caster-roller. No. 984,855; Feb. 21; Sp. p. 3462; Gaz. vol. 163; p. 612.
Schaibley, William. (See Carmichael and Schaibley.)
Schall, Aly I., Yonkers, N. Y. Automatic fire-sprinkler. No. 1,010,078; Nov. 28; Sp. p. 5374; Gaz. vol. 172; p. 963.
Schaller, Elizabeth, Paris, France. Freezing-machine. No. 1,009,793; Nov. 28; Sp. p. 4785; Gaz. vol. 172; p. 866.
Schaller, Otto, Südende, near Berlin, Germany. Stop-cock or valve for vacuum pipe systems. No. 1,003,068; Sept. 12; Sp. p. 1945; Gaz. vol. 170; p. 336.
Schaller, Otto, Südende, near Berlin, Germany, assignor to General Electric Company. Evacuating vacuum apparatus. No. 1,010,456; Dec. 5; Sp. p. 103; Gaz. vol. 173; p. 21.
Schalscha, Max, Summit, N. J. Pile-hammer. No. 1,005,889; Oct. 17; Sp. p. 2894; Gaz. vol. 171; p. 525.
Schambony, Jakob, Munich, Germany. Manufacturing writing-tablets of glass. No. 1,001,775; Aug. 29; Sp. p. 5501; Gaz. vol. 169; p. 1011.
Schanck, George H., Libertyville, Ill. Advertising device. No. 1,000,952; Aug. 15; Sp. p. 3728; Gaz. vol. 169; p. 668.
Schantz, M. P., trustee. (See Traylor, Samuel W., assignor.)
Schanzmeyer, Franziskus, Meta, Mo. Insulator-pin machine. No. 994,607; June 6; Sp. p. 1047; Gaz. vol. 167; p. 174.
Schärer, Arnold, New York, N. Y. Barrette. No. 999,596; Aug. 1; Sp. p. 791; Gaz. vol. 169; p. 137.
Schärer-Nussbaumer, Jakob, Erlenbach, Switzerland. Winding-machine. No. 1,000,695; Aug. 15; Sp. p. 3201; Gaz. vol. 169; p. 579.
Scharf, William H., Montreal, Quebec, Canada, assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine. No. 1,005,324; Oct. 10; Sp. p. 1647; Gaz. vol. 171; p. 295.
Scharf, William H., Montreal, Quebec, Canada, assignor, by mesne assignments, to Mergenthaler Linotype Company, New York, N. Y. Linotype-machine. No. 1,005,325; Oct. 10; Sp. p. 1652; Gaz. vol. 171; p. 295.
Scharfenberg, Oswald. (See Herzberg and Scharfenberg.)
Scharlandt, Alexander. (See Scharlandt, Charles R., A., and O. J.)
Scharlandt, Charles R., A., and O. J., San Francisco, Cal. Combined sash balance and antirattler. No. 982,637; Jan. 24; Sp. p. 5397; Gaz. vol. 162; p. 931.
Scharlandt, Oscar J. (See Scharlandt, Charles R., A., and O. J.)
Scharnweber, August, Davenport, Iowa. Roller-support. No. 999,468; Aug. 1; Sp. p. 536; Gaz. vol. 169; p. 95.
Schartow, Frank E., Racine, Wis. Snap-hook. No. 983,404; Feb. 7; Sp. p. 311; Gaz. vol. 163; p. 53.
Schatte, Gustav. (See Cornelius and Schatte.)
Schatz, Desiderius, Zittau, Germany. Stopping device for looms. No. 1,003,209; Sept. 12; Sp. p. 2262; Gaz. vol. 170; p. 388.
Schatz, Herman W., assignor to The American Tool Works Co., Cincinnati, Ohio. Variable-speed mechanism. No. 983,251; Jan. 31; Sp. p. 6723; Gaz. vol. 162; p. 1166.
Schatz, Herman W., assignor to The American Tool Works Company, Cincinnati, Ohio. Variable-speed mechanism. No. 983,252; Jan. 31; Sp. p. 6725; Gaz. vol. 162; p. 1166.
Schatz, Herrman A., assignor to Acme Ball Bearing Company, Chappaqua, N. Y. Lifting-jack. No. 1,005,479; Oct. 10; Sp. p. 1977; Gaz. vol. 171; p. 348.
Schau, Carl, Klein-Schwechat, near Vienna, Austria-Hungary. Apparatus for turning germinating grain in malting. No. 982,189; Jan. 17; Sp. p. 4451; Gaz. vol. 162; p. 746.
Schau, Phillip, Kalamazoo, Mich. Cushion-tire. No. 1,005,326; Oct. 10; Sp. p. 1654; Gaz. vol. 171; p. 296.
Schaub, Henry, Bloomingdale, Ohio. Washing and drying machine. No. 1,006,410; Oct. 17; Sp. p. 4059; Gaz. vol. 171; p. 707.
Schaufenbühl, Franz X., Binningen, Switzerland. Purse. No. 1,009,585; Nov. 21; Sp. p. 4360; Gaz. vol. 172; p. 751.
Schaum, Otto W., assignor to Fay Machine Tool Company, Philadelphia, Pa. Lathe. No. 1,001,993; Aug. 29; Sp. p. 5994; Gaz. vol. 169; p. 1085.
Schaumann, Oskar, Steglitz, near Berlin, Germany. Armor-plating. No. 1,007,144; Oct. 31; Sp. p. 5717; Gaz. vol. 171; p. 1048.
Schaumburg, Anna, Olalla, Wash. Fruit-jar holder. No. 995,486; June 20; Sp. p. 3034; Gaz. vol. 167; p. 540.
Schaumleffel, Harry J., Marion, Ind. Flask-guide. No. 986,223; Mar. 7; Sp. p. 965; Gaz. vol. 164; p. 157.
Schaurer, George P., assignor of one-half to I. M. Heath, Chicago, Ill. Automobile-fender. No. 1,009,187; Nov. 21; Sp. p. 3454; Gaz. vol. 172; p. 610.
Schauwinhold, Carl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Transport-carriage for guns. No. 1,006,882; Oct. 24; Sp. p. 5138; Gaz. vol. 171; p. 904.
Scheck, John B., Cleveland, Ohio. Wood-sawing machine. No. 987,747; Mar. 28; Sp. p. 4201; Gaz. vol. 164; p. 767.
Scheeffer, Gustave A., assignor to Columbia Meter Company, Indianapolis, Ind. Electric meter. No. 989,298; Apr. 11; Sp. p. 2131; Gaz. vol. 165; p. 364.
Scheeffer, Gustave A., assignor to Columbia Meter Company, Indianapolis, Ind. Brush-holder for electric meters. No. 993,204; May 23; Sp. p. 5088; Gaz. vol. 166; p. 917.
Scheeffer, Gustave A., assignor to Columbia Meter Company, Indianapolis, Ind. Electric meter. No. 995,637; June 20; Sp. p. 3376; Gaz. vol. 167; p. 595.
Scheeffer, Gustave A., assignor to Columbia Meter Company, Indianapolis, Ind. Electric meter. No. 1,008,617; Nov. 14; Sp. p. 2244; Gaz. vol. 172; p. 382.
Scheeffer, Gustave A., assignor to Columbia Meter Company, Indianapolis, Ind. Rheostat. No. 1,011,376; Dec. 12; Sp. p. 2202; Gaz. vol. 173; p. 375.
Scheel, Gustav, New York, N. Y. Airship construction. No. 994,202; June 6; Sp. p. 212; Gaz. vol. 167; p. 36.
Scheele, David J., Memphis, Tenn. Wheel. No. 995,295; June 13; Sp. p. 2576; Gaz. vol. 167; p. 446.
Scheele, Theodor E. (See Caro and Scheele.)
Scheer, John C. C., Beaver Falls, Pa. Blacking-applying machine for boots and shoes. No. 989,928; Apr. 18; Sp. p. 3513; Gaz. vol. 165; p. 610.
Scheffler, William, Gulfport, Miss. Furnace. No. 999,597; Aug. 1; Sp. p. 792; Gaz. vol. 169; p. 137.
Scheffling, Alexander. (See Gelbke, Edward, assignor.)
Scheible, Albert, Oak Park, Ill. Insulator-support. No. 985,707; Feb. 28; Sp. p. 5351; Gaz. vol. 163; p. 937.
Scheible, Albert, Chicago, Ill. Supporting mechanism. No. 987,175; Mar. 21; Sp. p. 2987; Gaz. vol. 164; p. 542.
Scheible, John. (See Wallace, Fred, assignor.)
Scheidemann, Bruno, assignor of one-half to The Firm of Gebrüder Neumann, Berlin, Germany. Apparatus for controlling gas-cocks and electric-light switches. No. 1,007,894; Nov. 7; Sp. p. 560; Gaz. vol. 172; p. 86.
Scheidler, Henry R. and O. A., Newark, Ohio. Street-sweeping machine. No. 983,405; Feb. 7; Sp. p. 312; Gaz. vol. 163; p. 53.
Scheidler, Oscar A. (See Scheidler, Henry R. and O. A.)
Scheiler, Henry W. Lawndale, Ill. Safety appliance for mines. No. 982,095; Jan. 17; Sp. p. 4288; Gaz. vol. 162; p. 714.
Scheinemann, Franz, Berlin, Germany. Evaporating apparatus. No. 1,004,087; Sept. 26; Sp. p. 4219; Gaz. vol. 170; p. 752.
Schellenbach, William L., Wyoming, Ohio. Lathe. No. 1,000,442; Aug. 15; Sp. p. 2619; Gaz. vol. 169; p. 488.
Schellenberger, Albert, Berlin, Germany, assignor to General Electric Company. Arc-lamp. No. 996,429; June 27; Sp. p. 5156; Gaz. vol. 167; p. 903.
Schellenger, Newton C., Chicago, Ill., assignor, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone-exchange system. No. 991,654; May 9; Sp. p. 1775; Gaz. vol. 166; p. 325.
Schellhass, Ernst, Berlin, Germany. Conveyer apparatus for feeding bars of metal to and delivering the same from machines. No. 992,264; May 16; Sp. p. 3086; Gaz. vol. 166; p. 562.

Alphabetical list of patentees—Continued.

Schelter, George G., assignor to Empire Last Works, Rochester, N. Y. Combined last-support and last-unlocking device. No. 983,936; Feb. 14; Sp. p. 1485; Gaz. vol. 163; p. 262.
Schelter, John C., Rochester, N. Y., assignor, by mesne assignments, to Krentler-Arnold Hinge Last Company, Detroit, Mich. Relasting-machine. No. 981,800; Jan. 17; Sp. p. 3605; Gaz. vol. 162; p. 612.
Schenck, Charles, assignor to Transportation Appliance Corporation, Chicago, Ill. Automatic slack-adjuster. No. 996,284; June 27; Sp. p. 4802; Gaz. vol. 167; p. 851.
Schenck, Clifton I., Owosso, Mich. Ladder-climbing attachment for boots and shoes. No. 997,511; July 11; Sp. p. 1887; Gaz. vol. 168; p. 340.
Schenck, Garret, Jr., Millinocket, Me. Apparatus for debarking logs. No. 987,828; Mar. 28; Sp. p. 4369; Gaz. vol. 164; p. 795.
Schenck, Harry G., Delphi, Ind. Gate-latch. No. 989,649; Apr. 18; Sp. p. 2917; Gaz. vol. 165; p. 514.
Schenck, Harry G., Delphi, Ind. Gate. No. 993,278; May 23; Sp. p. 5234; Gaz. vol. 166; p. 939.
Schenck, Jacob, Clinton, Wis. Draft-equalizer. No. 997,859; July 11; Sp. p. 2692; Gaz. vol. 168; p. 462.
Schenck, John E. (See Xavier, Schenck, and Rudolph.)
Schenck, John F., Lawndale, N. C. Thread guide and cleaner. No. 991,899; May 9; Sp. p. 2280; Gaz. vol. 166; p. 407.
Schenck, Martin M., Brownville, N. Y. Sewing-machine. No. 986,224; Mar. 7; Sp. p. 967; Gaz. vol. 164; p. 157.
Schenck, Murray, assignor to The Miami Cycle & Manufacturing Company, Middletown, Ohio. Crank-hanger. No. 986,596; Mar. 14; Sp. p. 1786; Gaz. vol. 164; p. 316.
Schenicka, Amel G., Petaluma, Cal. Awning. No. 1,002,460; Sept. 5; Sp. p. 641; Gaz. vol. 170; p. 92.
Schenk, Charles, Chicago, Ill. Cake-mixer. No. 1,004,821; Oct. 3; Sp. p. 582; Gaz. vol. 171; p. 96.
Schenk, John M. (See Stewart and Schenk.)
Schenkein, Abram. (See Schenkein, Morris, assignor.)
Schenkein, Morris, assignor of one-half to A. Schenkein, New York, N. Y. Clothes-line support. No. 1,012,019; Dec. 19; Sp. p. 3650; Gaz. vol. 173; p. 637.
Schenkein, Samuel. (See Pusterla, Attilio, assignor.)
Schepmann, Christian F., Ellis, Kans. Cattle-poke. No. 981,480; Jan. 10; Sp. p. 2968; Gaz. vol. 162; p. 482.
Schepmann, Christian F., Ellis, Kans. Cattle-poke. No. 1,004,914; Oct. 3; Sp. p. 805; Gaz. vol. 171; p. 129.
Scherer, Walter J., Hutchinson, Kans. Cut-lever bracket. No. 983,773; Feb. 7; Sp. p. 1102; Gaz. vol. 163; p. 177.
Scherer, William J., Rochester, N. Y. Foldable display-holder. No. 1,011,857; Dec. 12; Sp. p. 3273; Gaz. vol. 173; p. 544.
Schereschewsky, Isaac. (See Trestman, Leon, assignor.)
Scherling, Rudolph C. (See Bullock and Scherling.)
Schermack, Alfred, Detroit, Mich., assignor, by mesne assignments, to The Schermack Company. Stamp-affixer. No. 993,624; May 30; Sp. p. 6003; Gaz. vol. 166; p. 1092.
Schermack Company, The. (See Schermack, Alfred, assignor.)
Schermerhorn, Edwards F., Brooklyn, assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,006,597; Oct. 24; Sp. p. 4518; Gaz. vol. 171; p. 805.
Schermerhorn, Edwards F., Brooklyn, assignor to The Rail Joint Company, New York, N. Y. Rail-joint. No. 1,009,933; Nov. 28; Sp. p. 5052; Gaz. vol. 172; p. 912.
Schermerhorn, Leon, Montclair, assignor to The Keuffel & Esser Company, Hoboken, N. J. Display-case for thumb-tacks and other articles. No. 997,512; July 11; Sp. p. 1888; Gaz. vol. 168; p. 340.
Scherrer, Franz, Berlin, Germany. Apparatus for life-saving in case of fire. No. 987,494; Mar. 21; Sp. p. 3661; Gaz. vol. 164; p. 653.
Scherschel, Frederick P., Bedford, Ind. Marking device for corn-planters. No. 1,013,071; Dec. 26; Sp. p. 5950; Gaz. vol. 173; p. 1041.
Scheuble, Rudolf, Arnau-on-the-Elbe, Austria-Hungary. Candle emitting a colored light. No. 984,029; Feb. 14; Sp. p. 1700; Gaz. vol. 163; p. 292.
Scheufler, John C., Los Angeles, Cal. Kaleidoscope. No. 1,010,808; Dec. 5; Sp. p. 905; Gaz. vol. 173; p. 142.
Scheuner, Charles, Chicago, Ill. Spring-wheel. No. 1,007,392; Oct. 31; Sp. p. 6248; Gaz. vol. 171; p. 1137.
Scheuring, Charles E., West De Pere, Wis. Automobile-tire. No. 1,004,695; Oct. 3; Sp. p. 309; Gaz. vol. 171; p. 53.
Scheurle, Anton M., Kiel, and J. M. Stine, Milwaukee, Wis. Vulcanizing-mold for rubber tires. No. 997,212; July 4; Sp. p. 1296; Gaz. vol. 168; p. 211.
Scheurmann, Walter, Newark-upon-Trent, England, assignor to Henry R. Worthington. Turbine-driven centrifugal pump. No. 1,004,822; Oct. 3; Sp. p. 583; Gaz. vol. 171; p. 96.
Schick, Karl, Siegen, Germany. Making calcium cyanamid. No. 1,008,927; Nov. 14; Sp. p. 2887; Gaz. vol. 172; p. 485.
Schick, Wilhelm, Verebély, Austria-Hungary. Machine for gathering fallen-out seeds of clover and other cereals. No. 1,004,915; Oct. 3; Sp. p. 806; Gaz. vol. 171; p. 129.
Schickert, Paul, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Attachment of thin-walled hollow bodies to plates. No. 993,883; May 30; Sp. p. 6552; Gaz. vol. 166; p. 1180.
Schickert, Paul, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Securing thin-walled hollow bodies to metal plates. No. 1,010,960; Dec. 5; Sp. p. 1235; Gaz. vol. 173; p. 196.
Schickler, Paul, and H. Hahl, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Monocinnamic ester of glycol. No. 1,000,040; Aug. 8; Sp. p. 1703; Gaz. vol. 169; p. 318.
Schiebel, Arthur, Astoria, N. Y. Combination-brush. No. 1,012,281; Dec. 19; Sp. p. 4237; Gaz. vol. 173; p. 727.
Schieble Toy & Novelty Company, The. (See Turner, John C., assignor.)
Schiek, William, Freeburg, Ill. Spring-wheel. No. 994,539; June 6; Sp. p. 910; Gaz. vol. 167; p. 150.
Schiemer, Jacob, Detroit, Mich., assignor to National Insurance Scale Company. Vending-machine. No. 991,900; May 9; Sp. p. 2282; Gaz. vol. 166; p. 407.
Schild, Hermann E., assignor of one-half to The S. R. Smythe Company, Pittsburg, Pa. Reversing-valve. No. 1,000,629; Aug. 15; Sp. p. 3061; Gaz. vol. 169; p. 556.
Schildhauer, Edward, Culebra, Panama. Operating mechanism for canal-lock gates. No. 983,937; Feb. 14; Sp. p. 1486; Gaz. vol. 163; p. 262.
Schildwachter, Christian W., *et al.* (See Lagergren, John E., assignor.)
Schiller, Ferdinand, Prague, Austria-Hungary. Elastic tire. No. 992,603; May 16; Sp. p. 3827; Gaz. vol. 166; p. 682.
Schiller, Joseph F., Philadelphia, Pa. Piston-valve. No. 996,680; July 4; Sp. p. 167; Gaz. vol. 168; p. 30.
Schiller, Joseph F., Philadelphia, Pa. Packing for pump-plungers. No. 1,010,691; Dec. 5; Sp. p. 634; Gaz. vol. 173; p. 101.
Schiller, Moritz, Berlin, Germany. Lubricating device in mowing-machines. No. 1,003,518; Sept. 19; Sp. p. 2887; Gaz. vol. 170; p. 527.
Schiller, William A., Goodison, Mich. Shock-absorber. No. 1,006,686; Oct. 24; Sp. p. 4689; Gaz. vol. 171; p. 835.
Schilling, Rudolph, Oakland, Cal. Measuring and filling apparatus. No. 994,875; June 13; Sp. p. 1718; Gaz. vol. 167; p. 307.
Schimke, John H., Manistee, Mich. Antikicking device for cows. No. 1,012,165; Dec. 19; Sp. p. 3983; Gaz. vol. 173; p. 687.
Schimmel, Abraham A., Boston, and M. Freedman, Malden, Mass. Hammock-support. No. 991,803; May 9; Sp. p. 2085; Gaz. vol. 166; p. 374.
Schimmel, Fridolin, Faribault, Minn. Vertically-adjustable table. No. 982,882; Jan. 31; Sp. p. 5948; Gaz. vol. 162; p. 1043.
Schimmel, Fridolin, Faribault, Minn. Sanding, abrading, or polishing machine. No. 991,901; May 9; Sp. p. 2285; Gaz. vol. 166; p. 407.
Schimmel, Gustav R., Detroit, Mich. Receptacle for hypodermic needles. No. 1,007,804; Nov. 7; Sp. p. 352; Gaz. vol. 172; p. 56.
Schindel, Samuel M., Hagerstown, Md. Grain-separator. No. 994,659; June 6; Sp. p. 1178; Gaz. vol. 167; p. 192.
Schindler, Charles. (See Hornquist, Frank, assignor.)
Schindler, Edward, Brooklyn, N. Y. Closet-seat. No. 995,296; June 13; Sp. p. 2578; Gaz. vol. 167; p. 446.
Schinkez, Albert, Charlotte, Mich. Rotary-cylinder explosive-engine. No. 1,007,240; Oct. 31; Sp. p. 5931; Gaz. vol. 171; p. 1082.
Schinscholl, Erich, Syracuse, assignor of fifty-one one-hundredths to J. Hunter, Fulton, and forty-nine one-hundredths to E. N. Gilfillan, Syracuse, N. Y. Egg-carrier or receptacle. No. 999,881; Aug. 8; Sp. p. 1371; Gaz. vol. 169; p. 263.
Schirack, John A. (See Ranley and Schirack.)
Schirm, Karl. (See Grotkass and Schirm.)
Schirmacher, Karl, Höchst-on-the-Main, and R. Leopold, Hochheim-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Green to black vat dyestuff. No. 1,001,457; Aug. 22; Sp. p. 4841; Gaz. vol. 169; p. 873.
Schirmacher, Karl, Höchst-on-the-Main, and R. Leopold, Hochheim-on-the-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Bluish-red azo dyestuff. No. 1,001,458; Aug. 22; Sp. p. 4842; Gaz. vol. 169; p. 873.
Schirra, Julius, assignor of one-eighth to H. J. Thomas and one-fourth to G. S. Wilson, Pittsburgh, Pa. Vacuum cleaning apparatus. No. 1,008,205; Nov. 7; Sp. p. 1192; Gaz. vol. 172; p. 195.
Schirra, Julius, assignor of one-eighth to H. J. Thoma and one-fourth to G. S. Wilson, Pittsburgh, Pa. Vacuum attachment for carpet-sweepers. No. 1,008,865; Nov. 14; Sp. p. 2764; Gaz. vol. 172; p. 465.
Schlacks, William J., assignor to McCord & Company, Chicago, Ill. Lubricating system. No. 984,303; Feb. 14; Sp. p. 2285; Gaz. vol. 163; p. 387.
Schlaegel, Albert H. (See Morrison and Schlaegel.)

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Schlafly, Julius H., assignor to The Canton Culvert Company, Canton, Ohio. Draining-culvert. No. 980,442; Jan. 3; Sp. p. 550; Gaz. vol. 162; p. 93.
Schlangen-Racker Company. (See Schlangen, Simon, assignor.)
Schlangen, Simon, Chicago, Ill. Hose-tie wrench. No. 1,012,282; Dec. 19; Sp. p. 4238; Gaz. vol. 173; p. 727.
Schlangen, Simon, assignor to Schlangen-Racker Company, Chicago, Ill. Beer-racking machine. No. 1,009,695; Nov. 21; Sp. p. 4560; Gaz. vol. 172; p. 786.
Schlanger, Glenn D. (See Bell and Schlanger.)
Schlater, Bernard, New Albany, Ind. Electrically-controlled railway-switch. No. 991,247; May 2; Sp. p. 895; Gaz. vol. 166; p. 152.
Schlatter, Ervin, Harmony, Ind. Transplanter. No. 1,007,241; Oct. 31; Sp. p. 5934; Gaz. vol. 171; p. 1083.
Schlaugk, Max, Hanover, Germany. Preserving hydrogen-peroxid solution. No. 992,265; May 16; Sp. p. 3089; Gaz. vol. 166; p. 562.
Schlayer, Charles, assignor of one-half to C. W. Jacob, New York, N. Y. Detachable heel. No. 997,329; July 11; Sp. p. 1547; Gaz. vol. 168; p. 281.
Schlayer, Charles, assignor of one-half to C. W. Jacob, New York, N. Y. Carbureter attachment. No. 1,007,010; Oct. 24; Sp. p. 5398; Gaz. vol. 171; p. 946.
Schlegelmilch, George E. (See Berryman, Joseph D., assignor.)
Schlehr, John L., and W. Patterson, Mantador, N. D. Mail-bag catching and delivering apparatus. No. 1,007,242; Oct. 31; Sp. p. 5935; Gaz. vol. 171; p. 1083.
Schleicher, Charles B., Brady, Nebr. Vehicle-pole. No. 986,316; Mar. 7; Sp. p. 1166; Gaz. vol. 164; p. 188.
Schleicher, Emil J., St. Louis, Mo. Means for turning the pages of sheet-music. No. 998,265; July 18; Sp. p. 3614; Gaz. vol. 168; p. 648.
Schleicher, John C., Mount Vernon, N. Y. Stopper for bottles. No. 982,692; Jan. 24; Sp. p. 5510; Gaz. vol. 162; p. 950.
Schleicher, John C., Mount Vernon, N. Y. Gas-envelop for airships. No. 991,459; May 2; Sp. p. 1351; Gaz. vol. 166; p. 224.
Schleicher, John C., Mount Vernon, N. Y. Flying-machine. No. 998,553; July 18; Sp. p. 4224; Gaz. vol. 168; p. 748.
Schleicher, John C., Mount Vernon, N. Y. Flying-machine. No. 998,554; July 18; Sp. p. 4227; Gaz. vol. 168; p. 749.
Schleicher, John C., Mount Vernon, N. Y. Airship. No. 1,002,323; Sept. 5; Sp. p. 320; Gaz. vol. 170; p. 44.
Schleicher, John C., Mount Vernon, N. Y. Airship. No. 1,005,327; Oct. 10; Sp. p. 1656; Gaz. vol. 171; p. 296.
Schleicher, John C., Mount Vernon, N. Y. Heat-insulated lunch-box. No. 1,006,135; Oct. 17; Sp. p. 3438; Gaz. vol. 171; p. 611.
Schleicher, William A., Cleveland, Ohio. Bracket-holder for automobiles and the like. No. 1,001,459; Aug. 22; Sp. p. 4842; Gaz. vol. 169; p. 873.
Schleifer, Hyman, *et al.* (See Pascal, Israel, assignor.)
Schlemmer, Henry, Effingham, Ill. Piano-violin. No. 985,459; Feb. 28; Sp. p. 4790; Gaz. vol. 163; p. 851.
Schlenker-Grusen, Jacob, Schweningen, Germany. Watchman's clock. No. 991,460; May 2; Sp. p. 1353; Gaz. vol. 166; p. 224.
Schlesinger, Isaac, New York, N. Y. Toy drum. No. 1,003,125; Sept. 12; Sp. p. 2074; Gaz. vol. 170; p. 357.
Schlesinger, Louis, assignor of one-half to N. D. Levy, New York, N. Y. Flash-pan. No. 1,002,763; Sept. 5; Sp. p. 1295; Gaz. vol. 170; p. 195.
Schlesinger, Sigmund, Bridgeport, Conn. Lock-front collar. No. 999,882; Aug. 8; Sp. p. 1373; Gaz. vol. 169; p. 264.
Schley, Adolph and R. E., Beaver Dam, Wis. Harrow. No. 986,597; Mar. 14; Sp. p. 1788; Gaz. vol. 164; p. 316.
Schley, Eva O., Topeka, Kans. Hat-fastener. No. 989,299; Apr. 11; Sp. p. 2132; Gaz. vol. 165; p. 364.
Schley, George B. (See Stull and Schley.)
Schley, George B., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of motor control. No. 989,063; Apr. 11; Sp. p. 1625; Gaz. vol. 165; p. 284.
Schley, George B., Norwood, Ohio, assignor to Allis-Chalmers Company. System of distribution. No. 1,010,961; Dec. 5; Sp. p. 1237; Gaz. vol. 173; p. 196.
Schley, Rudolph E. (See Schley, Adolph and R. E.)
Schlich, Wilhelm, Dusseldorf-Oberkassel, Germany. Counting apparatus for coins and checks. No. 1,001,895; Aug. 29; Sp. p. 5774; Gaz. vol. 169; p. 1052.
Schlichter, Enos F., Philadelphia, Pa. Top for silos. No. 1,008,735; Nov. 14; Sp. p. 2506; Gaz. vol. 172; p. 422.
Schlie, William C. J., Glasgow, Scotland. Machine for the manufacture of wire nails and the like. No. 988,596; Apr. 4; Sp. p. 663; Gaz. vol. 165; p. 106.
Schlieder, Augustus E., Buffalo, N. Y., assignor to Model Generator Company, Louisville, Ky. Water seal for gas-generators. No. 1,005,328; Oct. 10; Sp. p. 1658; Gaz. vol. 171; p. 296.
Schlisske, Hermann, Munsterlage No. 85, Hanover, Germany. Reinforced cardboard and roofing-plate. No. 990,299; Apr. 25; Sp. p. 4316; Gaz. vol. 165; p. 768.
Schloemilch, Wilhelm, Berlin, and P. F. Pichon, Steglitz, near Berlin, assignors to Gesellschaft für drahtlose Telegraphie m. b. H., Berlin, Germany. Wave-detector for wireless telegraphy. No. 1,003,210; Sept. 12; Sp. p. 2263; Gaz. vol. 170; p. 389.
Schloemilch, Wilhelm, Berlin, and P. F. Pichon, Steglitz, near Berlin, assignors to Gesellschaft für drahtlose Telegraphie m. b. H., Berlin, Germany. Wave-detector for wireless telegraphy. No. 1,003,374; Sept. 12; Sp. p. 2592; Gaz. vol. 170; p. 446.
Schloemilch, Wilhelm, Berlin, and P. F. Pichon, Steglitz, near Berlin, assignors to Gesellschaft für drahtlose Telegraphie m. b. H., Berlin, Germany. Wave-detector for wireless telegraphy. No. 1,003,375; Sept. 12; Sp. p. 2593; Gaz. vol. 170; p. 446.
Schlomer, Henry, Parkston, S. D. Nut-lock. No. 990,300; Apr. 25; Sp. p. 4316; Gaz. vol. 165; p. 768.
Schlomovitz, H. (See Brodkowsky, Morris, assignor.)
Schloss & Co., Joseph W. (See Wilcox, Herbert A., assignor.)
Schlosser, John, Wilmington, Del. Water-heater. No. 981,317; Jan. 10; Sp. p. 2618; Gaz. vol. 162; p. 426.
Schlosser, John, Wilmington, Del., and A. W. Christian, Philadelphia, Pa. Air-pump. No. 991,902; May 9; Sp. p. 2286; Gaz. vol. 166; p. 408.
Schlotborn, Max G., Pittsburg, Pa. Bulb-protector. No. 990,784; Apr. 25; Sp. p. 5435; Gaz. vol. 165; p. 936.
Schluer, Gustav C. (See Barnard, Jerome W., assignor.)
Schlueter, Carl, Gresham, Nebr. Potato-dropper. No. 998,405; July 18; Sp. p. 3947; Gaz. vol. 168; p. 699.
Schlueter, Ferdinand. (See Schlueter, Karl M. and F.)
Schlueter, Ferdinand, Jr. (See Schlueter, Karl M. and F., Jr.)
Schlueter, Karl M. and F., New York, N. Y. Interchangeable plate-holder for printing-presses. No. 988,389; Apr. 4; Sp. p. 216; Gaz. vol. 165; p. 35.
Schlueter, Karl M. and F., Jr., New York, N. Y. Plate-holder for printing-presses. No. 989,811; Apr. 18; Sp. p. 3265; Gaz. vol. 165; p. 570.
Schlueter, Karl M. and F., Jr., New York, N. Y. Plate-holder for printing-presses. No. 992,266; May 16; Sp. p. 3089; Gaz. vol. 166; p. 562.
Schlueter, Karl M. and F., Jr., New York, N. Y. Plate-holder for printing-presses. No. 992,267; May 16; Sp. p. 3091; Gaz. vol. 166; p. 563.
Schlueter, Max L., Chicago, Ill. Machine for surfacing stone floors. No. 1,000,696; Aug. 15; Sp. p. 3203; Gaz. vol. 169; p. 579.
Schmalland, Hans, Steglitz, near Berlin, assignor to Deutsche Gasgluhlicht Aktien Gesellschaft, Berlin, Germany. Box for packing mantles for incandescent gas-lighting. No. 1,000,200; Aug. 8; Sp. p. 2092; Gaz. vol. 169; p. 373.
Schmalzried, Eugen, assignor to Felten & Guilleaume-Lahmeyerwerke, Actien-Gesellschaft, Frankfort-on-the-Main, Germany. Elastic coupling. No. 989,064; Apr. 11; Sp. p. 1636; Gaz. vol. 165; p. 285.
Schmand, Joseph P., Roselle Park, N. J. Tire. No. 992,604; May 16; Sp. p. 3828; Gaz. vol. 166; p. 682.
Schmehl, Christian W. (See Craig, William S., assignor.)
Schmeiser, Theodore G., Davis, Cal. Portable derrick. No. 1,012,921; Dec. 26; Sp. p. 5616; Gaz. vol. 173; p. 990.
Schmeisser, Louis, Erfurt, Germany. Automatic firearm. No. 989,432; Apr. 11; Sp. p. 2418; Gaz. vol. 165; p. 408.
Schmeisser, Louis, Erfurt, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Breech-operating mechanism for automatic firearms. No. 1,002,764; Sept. 5; Sp. p. 1297; Gaz. vol. 170; p. 195.
Schmich, Frank A., Bethlehem, and H. Koegler, Bethlehem West Side, Pa. Carpet-fastener. No. 989,650; Apr. 18; Sp. p. 2918; Gaz. vol. 165; p. 515.
Schmid, Frederick, Jr., Philadelphia, Pa. Time-switch. No. 1,012,721; Dec. 26; Sp. p. 5149; Gaz. vol. 173; p. 923.
Schmid, George J., assignor to The Patent Heading Company, Toledo, Ohio. Barrel-head fastener. No. 991,548; May 9; Sp. p. 1552; Gaz. vol. 166; p. 287.
Schmid, Henri, Mülhausen, assignor to Badische Anlin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of brown to violet to black shades. No. 1,011,084; Dec. 5; Sp. p. 1498; Gaz. vol. 173; p. 237.
Schmid, Henri, Mülhausen, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of brown shades on the fiber. No. 1,011,085; Dec. 5; Sp. p. 1500; Gaz. vol. 173; p. 237.
Schmid, John V., Philadelphia, and C. Mason, Wyndmoor, Pa., assignors to Nelson Valve Company. Valve. No. 984,111; Feb. 14; Sp. p. 1864; Gaz. vol. 163; 320.
Schmid, John V., Philadelphia, and C. Mason, Wyndmoor, Pa., assignors to Nelson Valve Company. Valve. No. 984,243; Feb. 14; Sp. p. 2156; Gaz. vol. 163; p. 366.
Schmid, Otto, Heilbronn, Germany. Apparatus for checking the use of telephones. No. 997,012; July 4; Sp. p. 898; Gaz. vol. 168; p. 142.
Schmid, Otto, Feuerbach, Germany. Flat-wire-netting machine. No. 1,005,480; Oct. 10; Sp. p. 1978; Gaz. vol. 171; p. 349.
Schmid, Peter, Basel, Switzerland. Scouring wool. No. 981,008; Jan. 10; Sp. p. 1915; Gaz. vol. 162; p. 317.
Schmid, Peter, Basel, Switzerland. Rendering jute and like fibrous material woolly. No. 990,012; Apr. 18; Sp. p. 3690; Gaz. vol. 165; p. 640.

Alphabetical list of patentees—Continued.

Schmid-Roost, Jakob, Oerlikon, near Zurich, Switzerland. Packing-ring for axle-box bearings. No. 996,798; July 4; Sp. p. 394; Gaz. vol. 168; p. 67.
Schmid, Valentin, Neuhausen, Switzerland, and A. von Ow, Büsingen, Germany. Garden-tool. No. 987,918; Mar. 28; Sp. p. 4594; Gaz. vol. 164; p. 827.
Schmidgall, Frederick, and H. Kornmann, assignors to The Cincinnati Butchers Supply Company, Cincinnati, Ohio. Auxiliary refrigerator-door. No. 1,012,103; Dec. 19; Sp. p. 3849; Gaz. vol. 173; p. 666.
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 980,566; Jan. 3; Sp. p. 849; Gaz. vol. 162; p. 136.
Schmidt, Albert, assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 999,343; Aug. 1; Sp. p. 285; Gaz. vol. 169; p. 53.
Schmidt, Albert G. A., assignor to The National Equipment Company, Chicago, Ill. Derrick. No. 1,008,564; Nov. 14; Sp. p. 2118; Gaz. vol. 172; p. 362.
Schmidt, Albert J. (See Dickason, Frank B., assignor.)
Schmidt, Albrecht, assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Preparation suitable for the indigo-vat. No. 1,005,481; Oct. 10; Sp. p. 1986; Gaz. vol. 171; p. 349.
Schmidt, Allen E., Elizabeth, Ill. Reversing-gearing. No. 985,845; Mar. 7; Sp. p. 183; Gaz. vol. 164; p. 30.
Schmidt, Allen E., Elizabeth, Ill. Change-gear mechanism. No. 995,915; June 20; Sp. p. 3976; Gaz. vol. 167; p. 690.
Schmidt, Andrew R., Ann Arbor, Mich. Garment-hanger. No. 1,010,183; Nov. 28; Sp. p. 5572; Gaz. vol. 172; p. 998.
Schmidt, Carl E., Detroit, Mich. Treated leather. No. 997,513; July 11; Sp. p. 1890; Gaz. vol. 168; p. 340.
Schmidt, Carl F. O., Cincinnati, Ohio. Easter rabbit. No. 991,804; May 9; Sp. p. 2087; Gaz. vol. 166; p. 374.
Schmidt, Carl L., Portland, Oreg. Safety attachment for hat-pins. No. 986,225; Mar. 7; Sp. p. 968; Gaz. vol. 164; p. 158.
Schmidt, Charles, Cleveland, Ohio, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Controlling mechanism for motor-vehicles. No. 994,428; June 6; Sp. p. 681; Gaz. vol. 167; p. 116.
Schmidt, Charles J., Chicago, Ill. Straining device. No. 992,268; May 16; Sp. p. 3093; Gaz. vol. 166; p. 563.
Schmidt, Elias A. (See Olsen and Schmidt.)
Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Vestibule system for railway-cars. No. 1,012,451; Dec. 19; Sp. p. 4567; Gaz. vol. 173; p. 782.
Schmidt, Ernest H., assignor to National Malleable Castings Company, Cleveland, Ohio. Radial-draft gear. No. 1,013,072; Dec. 26; Sp. p. 5953; Gaz. vol. 173; p. 1042.
Schmidt, Ernest H., assignor to The National Malleable Castings Company, Cleveland, Ohio. Radial-draft gear. No. 1,013,073; Dec. 26; Sp. p. 5956; Gaz. vol. 173; p. 1043.
Schmidt, Ferdinand L. (See Froehlich, Joseph, assignor.)
Schmidt, Ferdinand L., New York, N. Y. Trap-door mechanism for envelop and similar machines. No. 1,006,687; Oct. 24; Sp. p. 4690; Gaz. vol. 171; p. 835.
Schmidt, Ferdinand L., New York, N. Y., assignor to United States Envelope Company, Springfield, Mass. Punching and gumming mechanism for envelop-blanks. No. 997,330; July 11; Sp. p. 1550; Gaz. vol. 168; p. 281.
Schmidt, Frederick W. (See Wild, Günther P., assignor.)
Schmidt, Frederick W., Philadelphia, Pa. Attachment for talking-machines. No. 1,001,171; Aug. 22; Sp. p. 4242; Gaz. vol. 169; p. 776.
Schmidt, Friedrich L., Charlottenburg, Germany, assignor to The Roessler & Hasslacher Chemical Company. Making borates containing active oxygen. No. 1,006,798; Oct. 24; Sp. p. 4935; Gaz. vol. 171; p. 874.
Schmidt, George. (See Brandenburg and Schmidt.)
Schmidt, Gustav, assignor to Cincinnati Butcher's Supply Company, Cincinnati, Ohio. Hog-hoist. No. 996,799; July 4; Sp. p. 395; Gaz. vol. 168; p. 67.
Schmidt, Helm, *et al.* (See Henderson, John S., assignor.)
Schmidt, Henry, Elizabeth, N. J. Clock-holder. No. 987,176; Mar. 21; Sp. p. 2990; Gaz. vol. 164; p. 543.
Schmidt, Henry, Appleton, Wis. Nut-lock. No. 997,095; July 4; Sp. p. 1058; Gaz. vol. 168; p. 170.
Schmidt, Henry, Galva, Kans. Windmill. No. 1,001,172; Aug. 22; Sp. p. 4244; Gaz. vol. 169; p. 776.
Schmidt, Henry D., Galva, Kans. Grain-harvester. No. 980,347; Jan. 3; Sp. p. 333; Gaz. vol. 162; p. 60.
Schmidt, Henry F., Pittsburg, Pa., assignor to The Westinghouse Machine Company. Turbine. No. 986,317; Mar. 7; Sp. p. 1168; Gaz. vol. 164; p. 189.
Schmidt, Henry G., Chicago, Ill. Box-machine. No. 987,748; Mar. 28; Sp. p. 4202; Gaz. vol. 164; p. 767.
Schmidt, Herman A., assignor of sixty one-hundredths to A. M. Searles, Chicago, Ill. Electric sign and making the same. No. 1,005,482; Oct. 10; Sp. p. 1987; Gaz. vol. 171; p. 349.
Schmidt, Jakob, assignor to Badische Maschinenfabrik & Eisengiesserei vormals G. Sebold und Sebold & Neff, Durlach, Germany. Leather-working machine. No. 995,575; June 20; Sp. p. 3233; Gaz. vol. 167; p. 571.
Schmidt, John, assignor, by mesne assignments, to O. S. Miller, St. Louis, Mo. Door-check. No. 999,598; Aug. 1; Sp. p. 793; Gaz. vol. 169; p. 138.
Schmidt, John, assignor, by mesne assignments, to O. S. Miller, St. Louis, Mo. Vending-machine. No. 1,000,347; Aug. 8; Sp. p. 2397; Gaz. vol. 169; p. 422.
Schmidt, John, and H. Schütterle, Chardon, Ohio. Apparatus for drying macaroni and like bakery products. No. 1,010,809; Dec. 5; Sp. p. 906; Gaz. vol. 173; p. 142.
Schmidt, John D., New Orleans, La. Pencil-sharpener. No. 1,005,329; Oct. 10; Sp. p. 1662; Gaz. vol. 171; p. 297.
Schmidt, Josua H., Yonkers, N. Y. Drag-saw. No. 993,884; May 30; Sp. p. 6553; Gaz. vol. 166; p. 1181.
Schmidt, Karl K., Dresden-Hellerau, H. Wislicenus, Tharandt, and M. Kleinstück, Dresden, Germany. Coloring wood. No. 1,012,283; Dec. 19; Sp. p. 4239; Gaz. vol. 173; p. 728.
Schmidt, Louis M., *et al.* (See Booth, Charles C., assignor.)
Schmidt, Louis M. (See Oquist, Willard C., assignor.)
Schmidt, Otto, Cologne, Germany. Breeding microbes. No. 994,660; June 6; Sp. p. 1182; Gaz. vol. 167; p. 193.
Schmidt, Otto A., Chelmsford, assignor to The Hoffmann Manufacturing Company, Limited, London, England. Machine for grinding rollers. No. 997,706; July 11; Sp. p. 2309; Gaz. vol. 168; p. 408.
Schmidt, Otto A., Chelmsford, assignor to The Hoffmann Manufacturing Company Limited, London, England. Machine for grinding rollers. No. 1,002,765; Sept. 5; Sp. p. 1298; Gaz. vol. 170; p. 195.
Schmidt, Otto A., Chelmsford, assignor to The Hoffmann Manufacturing Company, Limited, London, England. Antifriction-bearing. No. 1,009,586; Nov. 21; Sp. p. 4362; Gaz. vol. 172; p. 751.
Schmidt, Peter, Stamford, Conn. Clothes-line fastener. No. 989,728; Apr. 18; Sp. p. 3071; Gaz. vol. 165; p. 541.
Schmidt, Peter G., Tumwater, Wash. Igniter-changer for ignition-chambers. No. 990,394; Apr. 25; Sp. p. 4547; Gaz. vol. 165; p. 803.
Schmidt, Robert, Schreiberhau, Germany. Bath. No. 987,646; Mar. 21; Sp. p. 3954; Gaz. vol. 164; p. 705.
Schmidt, Valdemer, *et al.* (See Henderson, John S., assignor.)
Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, Germany. High-pressure steam-boiler. No. 989,812; Apr. 18; Sp. p. 3266; Gaz. vol. 165; p. 570.
Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, Germany. Tubular superheater. No. 1,010,962; Dec. 5; Sp. p. 1243; Gaz. vol. 173; p. 197.
Schmidt, William, Cincinnati, Ohio, assignor, by mesne assignments, to The Lunkenheimer Company. Metallic window-sash construction. No. 988,900; Apr. 4; Sp. p. 1275; Gaz. vol. 165; p. 204
Schmidt, William, assignor to The Lunkenheimer Co., Cincinnati, Ohio. Metallic window-sash. No. 999,193; July 25; Sp. p. 5638; Gaz. vol. 168; p. 1003.
Schmidtmeier, Joseph A., Pendleton, Oreg. Cranking device for automobiles. No. 993,885; May 30; Sp. p. 6554; Gaz. vol. 166; p. 1181.
Schmieder, Paul, Lipine, Germany. Rotary metallurgical furnace for roasting zinc ores and the like. No. 1,004,916; Oct. 3; Sp. p. 807; Gaz. vol. 171; p. 130.
Schmits, Walter D., New York, N. Y., assignor to Jacob and Josef Kohn Incorporated, Vienna, Austria-Hungary. Chair. No. 1,004,206; Sept. 26; Sp. p. 4484; Gaz. vol. 170; p. 794.
Schmits, Walter D., New York, N. Y., assignor to Jacob and Josef Kohn Incorporated, Vienna, Austria-Hungary. Chair. No. 1,004,207; Sept. 26; Sp. p. 4484; Gaz. vol. 170; p. 794.
Schmits, Walter D., and E. Muuss, New York, N. Y., assignors to Jacob and Josef Kohn, Incorporated, Vienna, Austria-Hungary. Chair. No. 1,005,330; Oct. 10; Sp. p. 1663; Gaz. vol. 171; p. 297.
Schmitt, Claribel, executrix. (See Schmitt, Felix F.)
Schmitt, Edward D., assignor to The Pure Food Process Company, Baltimore, Md. Sealing-head for applying jar caps or closures. No. 981,009; Jan. 10; Sp. p. 1916; Gaz. vol. 162; p. 317.
Schmitt, Edward D., assignor to The Pure Food Process Company, Baltimore, Md. Sealing-head for applying jar-caps. No. 1,003,519; Sept. 19; Sp. p. 2890; Gaz. vol. 170; p. 528.
Schmitt, Edward D., assignor to The Pure Food Process Company, Baltimore, Md. Vessel for cooking food products. No. 1,003,952; Sept. 19; Sp. p. 3867; Gaz. vol. 170; p. 678.
Schmitt, Edward D., Baltimore, Md., assignor to American Bottle Cap Company, Philadelphia, Pa. Cap or closure for milk and other bottles. No. 995,377; June 13; Sp. p. 2779; Gaz. vol. 167; p. 473.
Schmitt, Eugene E., assignor to Rogers-Schmitt Wire & Iron Co., St. Louis, Mo. Folding display-rack. No. 989,433; Apr. 11; Sp. p. 2419; Gaz. vol. 165; p. 408.
Schmitt, Felix F., deceased, Chicago, Ill.; C. Schmitt, executrix. Candle-molding machine. No. 995,378; June 13; Sp. p. 2781; Gaz. vol. 167; p. 474.
Schmitt, George J., *et al.* (See Walter, William H., assignor.)

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Schmitt, Henry J., St. Henry, Ohio. Support for coffin-lids. No. 1,005,331; Oct. 10; Sp. p. 1664; Gaz. vol. 171; p. 297.
Schmitt, John O., Cleveland, Ohio. Fillet-cutter. No. 986,507; Mar. 14; Sp. p. 1597; Gaz. vol. 164; p. 284.
Schmitt, John O., Cleveland, Ohio. Muffler. No. 996,800; July 4; Sp. p. 397; Gaz. vol. 168; p. 68.
Schmitt, Paul, Paris, France. Aeroplane. No. 1,000,697; Aug. 15; Sp. p. 3205; Gaz. vol. 169; p. 579.
Schmitt, Rudolf, assignor to Maschinenfabrik Schnarr & Schmitt, Frankfort-on-the-Main, Germany. Cigar-rolling machine. No. 1,003,298; Sept. 12; Sp. p. 2441; Gaz. vol. 170; p. 420.
Schmitt, Wilhelm, assignor to Schwelmer Eisenwerk Müller & Co. Aktiengesellschaft, Schwelm, Westphalia, Germany. Store-vat. No. 999,801; July 4; Sp. p. 399; Gaz. vol. 168; p. 68.
Schmitz u. Co. G. M. B. H., Dr. (See Schmitz and Stalmann, assignors.)
Schmitz, Eugene. (See Muhleisen, Henry W., assignor.)
Schmitz, Heinrich. (See Schmitz, Johann and H.)
Schmitz, Jacob, and G. Stalmann, assignors to Dr. Schmitz u. Co. G. M. B. H., Dusseldorf, Germany. Manufacture of camphor. No. 989,651; Apr. 18; Sp. p. 2920; Gaz. vol. 165; p. 515.
Schmitz, Johann, Cologne-Sulz, and H. Schmitz, Brühl, Germany. Curtain-pole holder. No. 999,675; Aug. 1; Sp. p. 945; Gaz. vol. 169; p. 165.
Schmitz, Rudolph E., Calio, N. D. Railway-tie. No. 1,005,657; Oct. 10; Sp. p. 2402; Gaz. vol. 171; p. 412.
Schmitz, Valentine M., New York, N. Y. Garment. No. 993,886; May 30; Sp. p. 6556; Gaz. vol. 166; p. 1181.
Schmucher, Abraham C., Pierre, S. D. Plow-point. No. 994,792; June 13; Sp. p. 1517; Gaz. vol. 167; p. 279.
Schmuck, Joseph, Steglitz, near Berlin, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Film-pack and adapter therefor. No. 986,420; Mar. 7; Sp. p. 1393; Gaz. vol. 164; p. 225.
Schmuck, Joseph, Steglitz, assignor to Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Packing for light-sensitive layer-carriers. No. 1,000,630; Aug. 15; Sp. p. 3063; Gaz. vol. 169; p. 557.
Schmucker, Alfred P., Denver, Colo. Liquid-brake for railway-cars. No. 1,008,201; Nov. 7; Sp. p. 1182; Gaz. vol. 172; p. 194.
Schmucker, Alfred P., Denver, Colo. Means for the transmission of power. No. 1,008,202; Nov. 7; Sp. p. 1187; Gaz. vol. 172; p. 195.
Schmutz, Theodore H., Chanute, Kans. Fly-trap. No. 1,012,452; Dec. 19; Sp. p. 4569; Gaz. vol. 173; p. 783.
Schnabel, James F. (See Eastwood and Schnabel.)
Schnabel, James F. (See McKee and Schnabel.)
Schnabel, James F., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Apparatus for handling magnetic materials. No. 982,883; Jan. 31; Sp. p. 5950; Gaz. vol. 162; p. 1043.
Schnabel, James F., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Apparatus for handling magnetic materials. No. 989,065; Apr. 11; Sp. p. 1637; Gaz. vol. 165; p. 285.
Schnabel, James F., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Control system for electric motors. No. 1,008,495; Nov. 14; Sp. p. 1964; Gaz. vol. 172; p. 336.
Schnaier, Milton. (See Schodde, George W., assignor.)
Schnarr, Henry M., Ossining, assignor to Geo. Borgfeldt & Co., New York, N. Y. Funnel. No. 989,300; Apr. 11; Sp. p. 2133; Gaz. vol. 165; p. 364.
Schnaus, Charles J., assignor to Emerson Electric Mfg. Co., St. Louis, Mo. Post-bracket. No. 1,006,598; Oct. 24; Sp. p. 4521; Gaz. vol. 171; p. 805.
Schneemilch, Otto, Wilhelminenhütte, near Schoppinitz, Germany. Furnace for extracting zinc. No. 1,009,863; Nov. 28; Sp. p. 4927; Gaz. vol. 172; p. 890.
Schneible Company. (See Schneible, Joseph, assignor.)
Schneible, Joseph, Chicago, Ill. Gaging and measuring apparatus for liquids. No. 1,007,393; Oct. 31; Sp. p. 6250; Gaz. vol. 171; p. 1137.
Schneible, Joseph, Weehawken, N. J., assignor to Schneible Company, Buffalo, N. Y. Lock-cock. No. 983,842; Feb. 7; Sp. p. 1259; Gaz. vol. 163; p. 201.
Schneider, Adolph, Chicago, Ill. Bottle-filling machine. No. 991,093; May 2; Sp. p. 550; Gaz. vol. 166; p. 95.
Schneider, Adolph, Chicago, Ill. Bottle-filling machine. No. 998,266; July 18; Sp. p. 3618; Gaz. vol. 168; p. 648.
Schneider, Adolph, Chicago, Ill. Machine for bottling liquids. No. 1,010,692; Dec. 5; Sp. p. 635; Gaz. vol. 173; p. 102.
Schneider, Adolph P., Catasauqua, Pa. Bone-fork. No. 993,720; May 30; Sp. p. 6224; Gaz. vol. 166; p. 1125.
Schneider, Adolph P., Buffalo, N. Y. Bone-fork. No. 993,721; May 30; Sp. p. 6226; Gaz. vol. 166; p. 1126.
Schneider, Alexander M., New York, N. Y., assignor to Newton Extension Petticoat Company. Skirt or similar garment. No. 1,009,262; Nov. 21; Sp. p. 3659; Gaz. vol. 172; p. 638.
Schneider, Bruno, New York, N. Y. Combined curtain-pole ring and clamp. No. 996,886; July 4; Sp. p. 593; Gaz. vol. 168; p. 98.
Schneider, Carl, Jersey City Heights, N. J. Safety gas-burner. No. 993,111; May 23; Sp. p. 4907; Gaz. vol. 166; p. 889.
Schneider, Eberhard, New York, N. Y. Projecting apparatus. No. 985,068; Feb. 21; Sp. p. 3872; Gaz. vol. 163; p. 684.
Schneider, Eberhard, New York, N. Y. Apparatus for exhibiting moving pictures. No. 1,006,292; Oct. 17; Sp. p. 3809; Gaz. vol. 171; p. 667.
Schneider, Edward J. (See Kammerer and Schneider.)
Schneider, Eugène, Le Creuzot, France. Incendiary projectile. No. 1,005,578; Oct. 10; Sp. p. 2233; Gaz. vol. 171; p. 385.
Schneider, Eugéne, Le Creuzot, France. Boat for carrying smaller vessels and the like. No. 1,012,166; Dec. 19; Sp. p. 3984; Gaz. vol. 173; p. 687.
Schneider, Franklin, and J. C. Dunfee, assignors to The Van Dorn & Dutton Company, Cleveland, Ohio. Electric switch. No. 999,883; Aug. 8; Sp. p. 1374; Gaz. vol. 169; p. 264.
Schneider, Franz, Schwarzenberg, Germany. Apparatus for clearing and filtering waste water. No. 992,811; May 23; Sp. p. 4239; Gaz. vol. 166; p. 782.
Schneider, Frederick D., Bedford, Ohio. Fastening device. No. 980,567; Jan. 3; Sp. p. 851; Gaz. vol. 162; p. 137.
Schneider, Fritz A., New York, N. Y. Hose-coupling. No. 1,001,994; Aug. 29; Sp. p. 5996; Gaz. vol. 169; p. 1085.
Schneider, Georg, Lauenstein, assignor to O. Krauth, Charlottenburg, Prussia, Germany. Recovery of copper from porphyry ores and the like. No. 986,508; Mar. 14; Sp. p. 1599; Gaz. vol. 164; p. 284.
Schneider, Georg, Friedeburg, assignor to E. Abresch, Neustadt-on-the-Hardt, Germany. Producing verdigris. No. 1,009,864; Nov. 28; Sp. p. 4928; Gaz. vol. 172; p. 890.
Schneider, George C. (See McArdle, Edward, assignor.)
Schneider, Gottleib, Bluffton, Ind. Fence-post brace. No. 1,003,520; Sept. 19; Sp. p. 2891; Gaz. vol. 170; p. 529.
Schneider, Henry C., Beloit, Wis., assignor to Fairbanks, Morse and Company, Chicago, Ill. Windmill-regulator. No. 983,406; Feb. 7; Sp. p. 316; Gaz. vol. 163; p. 53.
Schneider, Jacob W., Ellinwood, Kans. Feeder for threshing-machines and the like. No. 1,012,922; Dec. 26; Sp. p. 5618; Gaz. vol. 173; p. 991.
Schneider, Johann G., Würzburg, Germany. Film-pack. No. 1,009,794; Nov. 28; Sp. p. 4786; Gaz. vol. 172; p. 867.
Schneider, John, Bridgeport, Conn. Combination-tool. No. 991,094; May 2; Sp. p. 554; Gaz. vol. 166; p. 96.
Schneider, John, Bridgeport, Conn. Funnel attachment for tanks. No. 999,599; Aug. 1; Sp. p. 797; Gaz. vol. 169; p. 138.
Schneider, John H., Cincinnati, Ohio. Preserving corn. No. 1,000,041; Aug. 8; Sp. p. 1704; Gaz. vol. 169; p. 318.
Schneider, Leo. (See Reimann and Schneider.)
Schneider, Leopold C., Philadelphia, Pa. Pipe-coil construction. No. 1,012,284; Dec. 19; Sp. p. 4241; Gaz. vol. 173; p. 728.
Schneider, Leopold C., Philadelphia, Pa., assignor to The Philadelphia Pipe Bending Company. Pipe-coiling machine. No. 996,802; July 4; Sp. p. 401; Gaz. vol. 168; p. 68.
Schneider, Louis. (See Hermann and Schneider.)
Schneider, Max M., assignor to The Pullman Company, Chicago, Ill. Berth-lamp. No. 994,203; June 6; Sp. p. 214; Gaz. vol. 167; p. 37.
Schneider, Max M., assignor to The Pullman Company, Chicago, Ill. Car-body-frame construction. No. 1,006,136; Oct. 17; Sp. p. 3439; Gaz. vol. 171; p. 611.
Schneider, Max M., assignor to The Pullman Company, Chicago, Ill. Car-vestibule construction. No. 1,007,979; Nov. 7; Sp. p. 733; Gaz. vol. 172; p. 115.
Schneider, Niram A., Mitchell, S. D. Automobile spring-tire. No. 1,005,332; Oct. 10; Sp. p. 1666; Gaz. vol. 171; p. 298.
Schneider, Paul, Tegel, near Berlin, Germany. Aeroplane. No. 1,001,223; Aug. 22; Sp. p. 4356; Gaz. vol. 169; p. 793.
Schneider, Philip, Chicago, Ill. Reversible back-rest for car-seats. No. 1,011,499; Dec. 12; Sp. p. 2470; Gaz. vol. 173; p. 421.
Schneider, Ralph F., New York, assignor to C. J. Tagliabue, Brooklyn, N. Y. Clinical-thermometer casing. No. 987,749; Mar. 28; Sp. p. 4205; Gaz. vol. 164; p. 768.
Schneider, Ralph F., New York, assignor to C. J. Tagliabue, Brooklyn, N. Y. Clinical thermometer. No. 994,482; June 6; Sp. p. 776; Gaz. vol. 167; p. 132.
Schneider, Stefan, Chicago, Ill. Adjustable retainer for ball-bearings. No. 985,289; Feb. 28; Sp. p. 4413; Gaz. vol. 163; p. 794.
Schneider, Stefan, Chicago, assignor to The United States Ball Bearing Manufacturing Company, Oak Park, Ill. Retainer for ball-bearings. No. 1,006,688; Oct. 24; Sp. p. 4692; Gaz. vol. 171; p. 835.
Schneider, Wilhelm P., assignor to G. H. Ryberg, Hamburg, Germany. Gas-liquefying apparatus for demonstration purposes. No. 984,030; Feb. 14; Sp. p. 1703; Gaz. vol. 163; p. 293.
Schnellsetz-Maschinengesellschaft mit beschränkter Haftung. (See Drewell, Heinrich, assignor.)
Schnellsetzmaschinengesellschaft mit beschränkter Haftung. (See Drewell, Heinrich, assignor.)

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Schnitzspahn, Karl, Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim Elektron, Frankfort-on-the-Main, Germany. Making phenylglycin salts. No. 1,011,500; Dec. 12; Sp. p. 2472; Gaz. vol. 173; p. 421.
Schnoeblen, W. A. (See Le Grand, Robert M., assignor.)
Schnoor, Peter J. A., Holstein, Iowa. Safety-pulley. No. 996,803; July 4; Sp. p. 403; Gaz. vol. 168; p. 69.
Schnoor, Peter J. A., Holstein, Iowa. Swivel. No. 1,002,875; Sept. 12; Sp. p. 1558; Gaz. vol. 170; p. 271.
Schnorr, Frederick J., Two Rivers, Wis. Spectacle-case. No. 1,004,474; Sept. 26; Sp. p. 5025; Gaz. vol. 170; p. 884.
Schnorr, Paul, Weehawken Heights, N. J., assignor to I. Schuster. Gearing for embroidery or similar machines. No. 996,887; July 4; Sp. p. 594; Gaz. vol. 168; p. 98.
Schnuerer, Louis, Elyria, Ohio, assignor to said Louis Schnuerer and G. H. Lewis, trustees. Building. No. 1,000,348; Aug. 8; Sp. p. 2400; Gaz. vol. 169; p. 422.
Schnyder, Adolf P., Poag, Ill. Apparatus for constructing sand wells. No. 1,001,085; Aug. 22; Sp. p. 4091; Gaz. vol. 169; p. 750.
Schnyder, Jost and L., Lucerne, Switzerland. Portable and transportable cooking apparatus. No. 980,842; Jan. 3; Sp. p. 1416; Gaz. vol. 162; p. 227.
Schnyder, Ludwig. (See Schnyder, Jost and L.)
Schober, Arnold, Beloit, Wis. Holder for loose leaves. No. 991,753; May 9; Sp. p. 1983; Gaz. vol. 166; p. 356.
Schoch, Charles and D., Saylorsburg, Pa. Shaft-bearing for grinding-mills. No. 999,600; Aug. 1; Sp. p. 798; Gaz. vol. 169; p. 139.
Schoch, Darwin. (See Schoch, Charles and D.)
Schocke, Wilhelm, Cassel, Germany. Barometer. No. 984,972; Feb. 21; Sp. p. 3682; Gaz. vol. 163; p. 650.
Schodde, George W., assignor, by mesne assignments, to M. Schnaier, New York, N. Y. Cesspool. No. 988,667; Apr. 4; Sp. p. 808; Gaz. vol. 165; p. 130.
Schoeck, Ralph, assignor to Schweizerische Werkzeugmaschinenfabrik Oerlikon, Oerlikon, Switzerland. Internal-combustion engine. No. 1,004,696; Oct. 3; Sp. p. 310; Gaz. vol. 171; p. 53.
Schoell, Eugene F., assignor to The Traut & Hine Manufacturing Company, New Britain, Conn. Safety-razor. No. 1,008,565; Nov. 14; Sp. p. 2123; Gaz. vol. 172; p. 363.
Schoeller, Walter, Charlottenburg, and W. Schrauth, Berlin-Halensee, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Pharmaceutical product. No. 1,012,923; Dec. 26; Sp. p. 5619; Gaz. vol. 173; p. 991.
Schoelles, John F., assignor to Field Force Pump Company, Elmira, N. Y. Spraying apparatus. No. 999,676; Aug. 1; Sp. p. 946; Gaz. vol. 169; p. 165.
Schoen, Charles T., Media, Pa. Flexible metallic tubing. No. 984,856; Feb. 21; Sp. p. 3463; Gaz. vol. 163; p. 612.
Schoen, Chas. T. (See Rudolph, Charles, assignor.)
Schoen, Frederick C., New York, N. Y., assignor to Lidgerwood Manufacturing Company. Combined steam and hand steering engine. No. 994,876; June 13; Sp. p. 1722; Gaz. vol. 167; p. 307.
Schoeneck, Conrad C., and I. F. Warme, Syracuse, N. Y. Valve. No. 986,765; Mar. 14; Sp. p. 2142; Gaz. vol. 164; p. 373.
Schoener, Herman. (See Buttweiler, John R., assignor.)
Schoenfeld, Morris, Rorschach, Switzerland. Device for threading needles. No. 981,125; Jan. 10; Sp. p. 2172; Gaz. vol. 162; p. 358.
Schoenfeld, Morris, Rorschach, Switzerland. Machine for punching jacquard-cards. No. 987,259; Mar. 21; Sp. p. 3168; Gaz. vol. 164; p. 574.
Schoenfeld, Morris, Rorschach, Switzerland. Shuttle for embroidering-machines. No. 989,301; Apr. 11; Sp. p. 2135; Gaz. vol. 165; p. 365.
Schoenfeld, Morris, Rorschach, Switzerland. Protective device for embroidering-machine shuttles. No. 990,301; Apr. 25; Sp. p. 4318; Gaz. vol. 165; p. 769.
Schoenfeld, Morris, Rorschach, Switzerland. Shuttle mechanism for embroidering-machines. No. 991,173; May 2; Sp. p. 735; Gaz. vol. 166; p. 125.
Schoenfeld, Morris, Rorschach, Switzerland. Shuttle-replenishing mechanism. No. 991,655; May 9; Sp. p. 1790; Gaz. vol. 166; p. 326.
Schoenfeld, Morris, Rorschach, Switzerland. Shuttle mechanism for embroidering-machines. No. 991,656; May 9; Sp. p. 1793; Gaz. vol. 166; p. 326.
Schoenfeld, Morris, Rorschach, Switzerland. Shuttle mechanism for embroidering-machines. No. 996,285; June 27; Sp. p. 4804; Gaz. vol. 167; p. 852.
Schoenfeld, Morris, Rorschach, Switzerland. Shuttle mechanism for embroidering-machines. No. 1,003,521; Sept. 19; Sp. p. 2893; Gaz. vol. 170; p. 529.
Schoenfeld, Morris, Rorschach, Switzerland. Device for holding the material in embroidering-machines. No. 1,008,736; Nov. 14; Sp. p. 2508; Gaz. vol. 172; p. 422.
Schoenfeld, Morris, Rorschach, Switzerland. Thread-protecting device for embroidering-machines. No. 1,012,104; Dec. 19; Sp. p. 3851; Gaz. vol. 173; p. 666.
Schoenhut, Albert, Philadelphia, Pa. Jointed figure. No. 982,096; Jan. 17; Sp. p. 4289; Gaz. vol. 162; p. 714.
Schoenky, Otto B. (See Forney and Schoenky.)
Schoenky, Otto B. (See Small and Schoenky.)
Schoenky, Otto B., Easton, Cal. Equalizer for car-trucks. No. 1,009,795; Nov. 28; Sp. p. 4788; Gaz. vol. 172; p. 867.
Schoenlau, Theodore A., St. Louis, Mo. Cleaning and scrubbing implement. No. 994,204; June 6; Sp. p. 216; Gaz. vol. 167; p. 37.
Schoenmehl, Charles B., Waterbury, Conn. Electrode frame and hanger. No. 982,097; Jan. 17; Sp. p. 4292; Gaz. vol. 162; p. 715.
Schoenmehl, Charles B., Waterbury, Conn. Primary battery. No. 987,647; Mar. 21; Sp. p. 3955; Gaz. vol. 164; p. 705.
Schoenmehl, Charles B., Waterbury, Conn. Battery-element support. No. 987,648; Mar. 21; Sp. p. 3957; Gaz. vol. 164; p. 705.
Schoenmehl, Charles B., Waterbury, Conn. Battery-element support. No. 1,010,693; Dec. 5; Sp. p. 643; Gaz. vol. 173; p. 103.
Schoenwolf, Fred, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Automatic selecting system. No. 988,390; Apr. 4; Sp. p. 218; Gaz. vol. 165; p. 35.
Schoettinger, George, Detroit, Mich. Compensating device for spring-scales. No. 994,036; May 30; Sp. p. 6857; Gaz. vol. 166; p. 1231.
Schoettinger, George, Detroit, Mich. Scale-platform. No. 1,012,105; Dec. 19; Sp. p. 3854; Gaz. vol. 173; p. 667.
Schofer, Friedrich, Waiblingen, near Stuttgart, Germany. Combined smoke and ventilation shaft. No. 995,097; June 13; Sp. p. 2200; Gaz. vol. 167; p. 382.
Schoff, Henry W., River Forest, Ill. Self-heating sad-iron. No. 985,290; Feb. 28; Sp. p. 4414; Gaz. vol. 163; p. 794.
Schoff, Henry W., River Forest, Ill. Liquid-fuel burner. No. 985,291; Feb. 28; Sp. p. 4416; Gaz. vol. 163; p. 795.
Schofield, Charles, Newcastle-upon-Tyne, England. Engine for portable pneumatic reversible drilling-machines. No. 1,006,883; Oct. 24; Sp. p. 5140; Gaz. vol. 171; p. 905.
Schofield, Charles, Newcastle-upon-Tyne, England. Portable pneumatic reversible drilling-machine. No. 1,008,076; Nov. 7; Sp. p. 920; Gaz. vol. 172; p. 148.
Schofield, James J., Martinsville, Ind. Trap-setting device. No. 981,887; Jan. 17; Sp. p. 3802; Gaz. vol. 162; p. 643.
Schofield, John S., Gershom, Forest Hall, and J. Swift, Hull, England. Pneumatic reamer. No. 997,096; July 4; Sp. p. 1060; Gaz. vol. 168; p. 171.
Schofield, Ralph F., Olathe, Kans. Jack. No. 986,868; Mar. 14; Sp. p. 2363; Gaz. vol. 164; p. 409.
Scholding, John H., Yonkers, N. Y. Ash-sifter. No. 993,722; May 30; Sp. p. 6227; Gaz. vol. 166; p. 1126.
Scholes, Daniel R., assignor to Aermotor Company, Chicago, Ill. Engine. No. 987,177; Mar. 21; Sp. p. 2992; Gaz. vol. 164; p. 543.
Scholl, Peter, Crystal Falls, Mich. Phonograph-record cabinet. No. 995,487; June 20; Sp. p. 3035; Gaz. vol. 167; p. 540.
Scholl, William M., Chicago, Ill. Instep-arch support. No. 990,458; Apr. 25; Sp. p. 4693; Gaz. vol. 165; p. 825.
Scholl, William M., Chicago, Ill. Metal-forming appliance. No. 997,707; July 11; Sp. p. 2310; Gaz. vol. 168; p. 409.
Scholl, William P., South Bethlehem, assignor of one-half to J. A. Nevins, Allentown, Pa. Antiskidding device. No. 982,304; Jan. 24; Sp. p. 4724; Gaz. vol. 162; p. 816.
Scholz, Carl, Chicago, Ill. Reinforced-concrete lining for mine-shafts and manufacture thereof. No. 1,006,799; Oct. 24; Sp. p. 4936; Gaz. vol. 171; p. 874.
Schomber & Söhne, C. (See Michel, Anton, assignor.)
Schonert, Carl, Newark, assignor of one-third to E. Reiff, Irvington, and one-third to R. Schweitzer, Newark, N. J. Umbrella. No. 996,369; June 27; Sp. p. 5006; Gaz. vol. 167; p. 882.
Schönherr, Otto, and J. Hessberger, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Production of reactions in gases. No. 991,174; May 2; Sp. p. 739; Gaz. vol. 166; p. 125.
Schönherr, Otto, Christiania, and J. Hessberger, Christianssand, Norway, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Process and apparatus for producing long stable electric arcs. No. 1,003,299; Sept. 12; Sp. p. 2444; Gaz. vol. 170; p. 420.
Schonk, Frank. (See Keevil, Alfred L., assignor.)
Schoolfield, Edward R., Carbon, W. Va. Safety attachment for gas-pipes. No. 992,069; May 9; Sp. p. 2607; Gaz. vol. 166; p. 464.
Schoonmaker, Elmer, New York, N. Y. Mechanism for transmitting speed and power. No. 991,754; May 9; Sp. p. 1984; Gaz. vol. 166; p. 357.
Schoonmaker, James M., Jr., Pittsburg, Pa. Clutch mechanism. No. 981,010; Jan. 10; Sp. p. 1918; Gaz. vol. 162; p. 318.
Schoonover, William J., assignor, by mesne assignments, to Iowa Washing Machine Company, Des Moines, Iowa. Gearing for washing-machines. No. 996,148; June 27; Sp. p. 4456; Gaz. vol. 167; p. 806.
Schopf, Rochus, Elizabeth, Colo. Pipe-lifting clutch. No. 992,070; May 9; Sp. p. 2609; Gaz. vol. 166; p. 464.

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Schorer, Edwin H., Columbia, Mo. Electric incubator. No. 994,205; June 6; Sp. p. 218; Gaz. vol. 167; p. 37.
Schorik, Frank. (See Kriz and Schorik.)
Schorr, Ernest, Detroit, Mich. Automobile suspension. No. 1,007,313; Oct. 31; Sp. p. 6072; Gaz. vol. 171; p. 1108.
Schorr, Max, New York, N. Y. Garment. No. 1,003,811; Sept. 19; Sp. p. 3530; Gaz. vol. 170; p. 628.
Schory, Samuel B., New Waterford, Ohio. Rail-tie and means for fastening rails thereto. No. 1,010,079; Nov. 28; Sp. p. 5375; Gaz. vol. 172; p. 963.
Schossow, Frederick A., Detroit, Mich. Water-closet. No. 1,008,737; Nov. 14; Sp. p. 2511; Gaz. vol. 172; p. 423.
Schott, Edmund L. (See Apt, Schott, and Garland.)
Schou, Paul, Copenhagen, Denmark. Air-pump. No. 1,000,759; Aug. 15; Sp. p. 3326; Gaz. vol. 169; p. 600.
Schou, Paul, Copenhagen, Denmark. Apparatus for absorbing gases or vapors. No. 1,001,460; Aug. 22; Sp. p. 4843; Gaz. vol. 169; p. 873.
Schou, Theodor, Pittsburg, Pa. Runner attachment for vehicles. No. 998,406; July 18; Sp. p. 3948; Gaz. vol. 168; p. 700.
Schouboe, Jens T. S., Holte, Denmark. Projectile. No. 998,307; July 18; Sp. p. 3742; Gaz. vol. 168; p. 665.
Schrade, George, Walden, N. Y. Routing-machine. No. 985,117; Feb. 21; Sp. p. 3960; Gaz. vol. 163; p. 700.
Schrade, George, Walden, N. Y. Punch or borer for leather and similar substances. No. 999,060; July 25; Sp. p. 5401; Gaz. vol. 168; p. 961.
Schrade, John J., Waco, Tex. Water-purifier for ice-machines. No. 983,169; Jan. 31; Sp. p. 6538; Gaz. vol. 162; p. 1137.
Schrader, Anna A., Mount Olive, Ill. Car-step. No. 1,004,475; Sept. 26; Sp. p. 5026; Gaz. vol. 170; p. 884.
Schrader, Karl K., Altona, Germany. Canning meat. No. 981,694; Jan. 17; Sp. p. 3404; Gaz. vol. 162; p. 575.
Schrader, William C., Kansas City, Mo. Dish-washing machine. No. 987,602; Mar. 21; Sp. p. 3867; Gaz. vol. 164; p. 689.
Schramm, Adolph W., Riverton, N. J., and E. B. Wilford, Merion, assignors to Electro Dental Manufacturing Company, Philadelphia, Pa. Controller for electric motors. No. 1,002,766; Sept. 5; Sp. p. 1301; Gaz. vol. 170; p. 196.
Schranck, Fanny T., Wilmington, Del. Plume. No. 984,973; Feb. 21; Sp. p. 3684; Gaz. vol. 163; p. 650.
Schrantz, M. P., trustee. (See Traylor, Samuel W., assignor.)
Schratz, Alfred A., Detroit, Mich. Antiseptic faucet. No. 1,001,461; Aug. 22; Sp. p. 4844; Gaz. vol. 169; p. 874.
Schraubstadter, Richard T., St. Louis, Mo., assignor of one-eighth to C. P. Griffin, San Francisco, Cal. Concentrator-table. No. 1,006,293; Oct. 17; Sp. p. 3811; Gaz. vol. 171; p. 668.
Schrauth, Walther. (See Schoeller and Schrauth.)
Schreiber, Gustav. (See Weber and Schreiber.)
Schreiber, Henry M. (See Tiernan and Schreiber.)
Schreiber, Julius G., New York, N. Y. Adjustable table. No. 990,066; Apr. 18; Sp. p. 3791; Gaz. vol. 165; p. 656.
Schreiber, William F., Cedar Rapids, Iowa. Automobile-jack. No. 985,292; Feb. 28; Sp. p. 4417; Gaz. vol. 163; p. 795.
Schreier, Herman. (See Lindley and Schreier.)
Schreier, Walter, Cottbus, Germany. Water-tube steam-boiler with tubes connecting the upper and lower shells. No. 1,005,333; Oct. 10; Sp. p. 1667; Gaz. vol. 171; p. 298.
Schreiner, Hugo, Cassel, Germany. Adjustable piano foot-rest. No. 1,007,980; Nov. 7; Sp. p. 735; Gaz. vol. 172; p. 115.
Schreuder, Andrew M. (See Schwartz and Schreuder.)
Schreurs, Garrett W., Muscatine, Iowa. Button-blank-cutting machine. No. 1,009,346; Nov. 21; Sp. p. 3840; Gaz. vol. 172; p. 669.
Schrier, Adolph B., assignor of one-half to C. C. Williams, Pittsburg, Pa. Light-shade. No. 996,430; June 27; Sp. p. 5158; Gaz. vol. 167; p. 903.
Schroader, B. F. (See Aycock, George W., assignor.)
Schrode, John L., Hopkinsville, assignor of one-half to F. W. Nunn, Marion, Ky. Globe-valve. No. 991,095; May 2; Sp. p. 556; Gaz. vol. 166; p. 96.
Schroder, Bernard A., Birmingham, Ala. Water-heater. No. 1,008,077; Nov. 7; Sp. p. 922; Gaz. vol. 172; p. 148.
Schroder, Edward J., Chicago, Ill. Prepared roofing. No. 1,007,146; Oct. 31; Sp. p. 5721; Gaz. vol. 171; p. 1049.
Schroder, Frank P., Jersey City, N. J. Gas-burner. No. 1,012,453; Dec. 19; Sp. p. 4570; Gaz. vol. 173; p. 783.
Schröder, Friedrich H., and H. Becker, Recklinghausen, Germany. Fire-damp indicator. No. 989,929; Apr. 18; Sp. p. 3516; Gaz. vol. 165; p. 611.
Schröder, Heinrich, Hedwigsburg, Germany. Making phosphates. No. 991,096; May 2; Sp. p. 557; Gaz. vol. 166; p. 97.
Schroder, Herman F., assignor, by mesne assignments, to W. H. Miner, Chicago, Ill. Journal-bearing. No. 985,460; Feb. 28; Sp. p. 4792; Gaz. vol. 163; p. 852.
Schröder, Ludwig, and A. Müller, Berlin, Germany. Alternating-current plant combined with storage battery. No. 987,495; Mar. 21; Sp. p. 3662; Gaz. vol. 164; p. 653.
Schröder, Wilhelm G., Lübeck, Germany. Churn. No. 984,395; Feb. 14; Sp. p. 2465; Gaz. vol. 163; p. 417.
Schroedel, John G., McKenna, Wash. Releasable car-stake. No. 989,930; Apr. 18; Sp. p. 3517; Gaz. vol. 165; p. 611.
Schroeder, August, Strassburg, Germany. Subcutaneous syringe. No. 1,008,078; Nov. 7; Sp. p. 926; Gaz. vol. 172; p. 149.
Schroeder, Edward C., Clintonville, Wis. Building and car door. No. 998,207; July 18; Sp. p. 3474; Gaz. vol. 168; p. 626.
Schroeder, Frank C. (See Gilson, Henry R., assignor.)
Schroeder, Frederick W., London, England, assignor to The Marine Air-Pulsion Company. Propelling vessels. No. 986,766; Mar. 14; Sp. p. 2144; Gaz. vol. 164; p. 373.
Schroeder Headlight Company. (See Edwards, Edgar A., assignor.)
Schroeder, Herman O., Millard, Nebr. Coin-receptacle for mail-boxes. No. 992,605; May 16; Sp. p. 3829; Gaz. vol. 166; p. 682.
Schroeder, John, Oschersleben, Germany. Ground-anchor. No. 995,297; June 13; Sp. p. 2578; Gaz. vol. 167; p. 447.
Schroeder, John J., Brooklyn, N. Y. Extension-table. No. 1,010,321; Nov. 28; Sp. p. 5854; Gaz. vol. 172; p. 1043.
Schroeder, Otto H., London, England. Compound for preventing the formation of scale, corrosion, and pitting in steam-generators. No. 989,066; Apr. 11; Sp. p. 1640; Gaz. vol. 165; p. 285.
Schroeder, Richard F. (See Turner and Schroeder.)
Schroeder, Walter T., Omaha, Nebr. Hat-pin protector. No. 988,738; Apr. 4; Sp. p. 969; Gaz. vol. 165; p. 153.
Schroeder, William L., Livingston, Mont. Window attachment. No. 993,887; May 30; Sp. p. 6558; Gaz. vol. 166; p. 1182.
Schroeder, William S., Chicago, Ill., assignor, by mesne assignments, to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 1,010,810; Dec. 5; Sp. p. 908; Gaz. vol. 173; p. 143.
Schroeter By-Product Coke-Oven Construction Company, The. (See Schroeter, Carl, assignor.)
Schroeter, Carl, Chicago, Ill., assignor to The Schroeter By-Product Coke-Oven Construction Company, Phoenix, Ariz. Coke-oven. No. 998,805; July 25; Sp. p. 4817; Gaz. vol. 168; p. 870.
Schrom, Oscar, assignor to J. Saltzman, Chicago, Ill. Pressing-machine. No. 1,004,697; Oct. 3; Sp. p. 312; Gaz. vol. 171; p. 54.
Schröter, Karl, Berlin, Germany, assignor to General Electric Company. Mounting of conductors. No. 980,843; Jan. 3; Sp. p. 1418; Gaz. vol. 162; p. 227.
Schroyer, Harry H., assignor to General Railway Supply Co., Chicago, Ill. Window-lifting mechanism. No. 1,004,208; Sept. 26; Sp. p. 4485; Gaz. vol. 170; p. 794.
Schroyer, William O., Cincinnati, Ohio. Burial-casket. No. 1,011,858; Dec. 12; Sp. p. 3274; Gaz. vol. 173; p. 544.
Schrump, Fred A., Elkhart, Ind. Smoke-consumer. No. 999,344; Aug. 1; Sp. p. 286; Gaz. vol. 169; p. 53.
Schruth, Albert. (See Schruth and Engel.)
Schruth, Edward. (See Schruth and Engel.)
Schruth, John, A., and E., and W. Engel, Pepin, Wis. Bobsled. No. 1,010,395; Nov. 28; Sp. p. 6019; Gaz. vol. 172; p. 1067.
Schubart, Heinrich, Cassel, Germany. Clamp for tightening elastic tube ends. No. 1,006,294; Oct. 17; Sp. p. 3814; Gaz. vol. 171; p. 668.
Schubert, Franz B. K., and G. Burger, assignors to Deseniss & Jacobi Aktiengesellschaft, Hamburg, Germany. Hand-pump for freeing water from its contained iron. No. 1,006,010; Oct. 17; Sp. p. 3155; Gaz. vol. 171; p. 567.
Schubert, Frederick, Sellersville, Pa. Sounding apparatus. No. 987,260; Mar. 21; Sp. p. 3176; Gaz. vol. 164; p. 574.
Schubert, Frederick, Sellersville, Pa. Pocket pressure test-gage. No. 994,877; June 13; Sp. p. 1726; Gaz. vol. 167; p. 308.
Schubert, Frederick, Sellersville, Pa. Pocket pressure-gage. No. 994,878; June 13; Sp. p. 1728; Gaz. vol. 167; p. 308.
Schubert, Frederick, Sellersville, Pa. Sounding apparatus. No. 1,008,566; Nov. 14; Sp. p. 2124; Gaz. vol. 172; p. 363.
Schubert, George, Fort Worth, Tex. Bale-wiring mechanism. No. 994,661; June 6; Sp. p. 1184; Gaz. vol. 167; p. 193.
Schubert, George, Fort Worth, Tex. Bale-tying mechanism for balers. No. 994,662; June 6; Sp. p. 1190; Gaz. vol. 167; p. 194.
Schubert, George, West Bend, Wis. Fly-exit. No. 1,011,377; Dec. 12; Sp. p. 2203; Gaz. vol. 173; p. 376.
Schubert, Max, Kottbus, Germany. Ledge-cover for hollow bodies. No. 983,572; Feb. 7; Sp. p. 695; Gaz. vol. 163; p. 108.
Schubert, Max, Kottbus, Germany. Machine for forming paper tubes. No. 987,829; Mar. 28; Sp. p. 4372; Gaz. vol. 164; p. 796.

Alphabetical list of patentees—Continued.

Schubert, Paul W., Seattle, Wash. Can-feeder for runways. No. 999,061; July 25; Sp. p. 5403; Gaz. vol. 168; p. 962.
Schubert & Salzer Maschinenfabrik A. G. (See Müller and Anger, assignors.)
Schubert, William H., New York, N. Y. Furnace-draft-operating apparatus. No. 987,496; Mar. 21; Sp. p. 3664; Gaz. vol. 164; p. 653.
Schuchardt, Emil, New York, assignor to L. Gurlitz, Brooklyn, N. Y. Elevator. No. 991,549; May 9; Sp. p. 1554; Gaz. vol. 166; p. 288.
Schuchardt, Gustav, Rixdorf, near Berlin, Germany. Burner-mouthpiece for incandescent gas-burners. No. 981,011; Jan. 10; Sp. p. 1920; Gaz. vol. 162; p. 318.
Schuele, George E., Vancouver, Wash. Camera-shutter. No. 996,888; July 4; Sp. p. 596; Gaz. vol. 168; p. 98.
Schueler, William C., York, Pa. Automatic oiling device for cross-heads. No. 1,000,554; Aug. 15; Sp. p. 2876; Gaz. vol. 169; p. 528.
Schuermann, Anton C. (See Mueller and Schuermann.)
Schuermann, Otto, Milwaukee, Wis. Billiard-cue. No. 983,938; Feb. 14; Sp. p. 1490; Gaz. vol. 163; p. 262.
Schuermeyer, Wm. F., *et al.* (See Gambill and Woods, assignors.)
Schuetz, Frank A. (See Hamm and Schuetz.)
Schuftan, Richard, Berlin, Germany. Shelf-frame with vertically-adjustable shelves. No. 984,857; Feb. 21; Sp. p. 3465; Gaz. vol. 163; p. 612.
Schug, John B., Detroit, Mich. Automatic switch. No. 985,069; Feb. 21; Sp. p. 3876; Gaz. vol. 163; p. 684.
Schuh, Anton, Vienna, Austria-Hungary. Clamping device for wooden boxes and the like. No. 1,010,524; Dec. 5; Sp. p. 278; Gaz. vol. 173; p. 44.
Schuler, Arthur. (See Behm, Walther, assignor.)
Schuler, Frank. (See Welfle and Schuler.)
Schuler, Joseph, assignor of one-fourth to W. M. Ferguson and one-fourth to H. O. Folson, Kansas City, Mo. Nut-lock. No. 982,537; Jan. 24; Sp. p. 5213; Gaz. vol. 162; p. 899.
Schuler, Milton, *et al.* (See Overturf, Osler I., assignor.)
Schull, Leopold, Vienna, Austria-Hungary. Friction-driven screw-press. No. 995,034; June 13; Sp. p. 2060; Gaz. vol. 167; p. 360.
Schulman, Joseph. (See Schulman, Louis and J.) (Reissue.)
Schulman, Louis, Williamsburg, and J. Schulman, New York, N. Y., assignors to American Firecracker Manufacturing Company. Machine for making and finishing fire-crackers. (Reissue.) No. 13,230; Apr. 18; Sp. p. 4105; Gaz. vol. 165; p. 707.
Schulte, Charles. (See Carnovsky, Byron H., assignor.)
Schulthess, Walter, Paris, France. Apparatus for slaking lime. No. 1,001,310; Aug. 22; Sp. p. 4550; Gaz. vol. 169; p. 824.
Schultz, August E., Chicago, Ill. Bumping-post. No. 986,509; Mar. 14; Sp. p. 1600; Gaz. vol. 164; p. 285.
Schultz, August E., Chicago, Ill. Vehicle. No. 989,652; Apr. 18; Sp. p. 2920; Gaz. vol. 165; p. 515.
Schultz, Carl J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Uncoupling-rod bracket. No. 1,000,299; Aug. 8; Sp. p. 2295; Gaz. vol. 169; p. 407.
Schultz, Charles W., and E. A. Sweeney, Detroit, Mich. Vehicle seat-back spring. No. 999,677; Aug. 1; Sp. p. 947; Gaz. vol. 169; p. 166.
Schultz, Charles W., and E. A. Sweeney, Detroit, Mich. Seat-back spring. No. 999,678; Aug. 1; Sp. p. 949; Gaz. vol. 169; p. 166.
Schultz, Cleon W., Scranton, Pa., assignor to H. W. Johns-Manville Company. Suspended insulator. No. 983,573; Feb. 7; Sp. p. 696; Gaz. vol. 163; p. 108.
Schultz, Ernest A., Hamilton, Ontario, Canada. Draft-preventer. No. 1,007,737; Nov. 7; Sp. p. 180; Gaz. vol. 172; p. 30.
Schultz, Frederick A., Hasbrouck Heights, N. J. Vehicle-tire. No. 1,006,295; Oct. 17; Sp. p. 3815; Gaz. vol. 171; p. 668.
Schultz, Hermann, assignor to Firm of T. Goldschmidt, Essen-on-the-Ruhr, Germany. Means for forming parallel faces on the ends of rails, &c. No. 981,695; Jan. 17; Sp. p. 3405; Gaz. vol. 162; p. 575.
Schultz, Hugo A., Dorchester, Wis. Mail-box and carrier. No. 1,004,476; Sept. 26; Sp. p. 5027; Gaz. vol. 170; p. 884.
Schultz, Leopold, Dunmore, Pa. Spigot. No. 1,003,812; Sept. 19; Sp. p. 3531; Gaz. vol. 170; p. 628.
Schultz, Werner, Charlottenburg, Germany. Bacterial product. No. 1,005,076; Oct. 3; Sp. p. 1085; Gaz. vol. 171; p. 183.
Schultz, Werner, Charlottenburg, Germany. Bacterial product. No. 1,005,077; Oct. 3; Sp. p. 1086; Gaz. vol. 171; p. 183.
Schultz, William C., Buffalo, N. Y. Cross-rein buckle. No. 1,005,890; Oct. 17; Sp. p. 2896; Gaz. vol. 171; p. 525.
Schultze, Gustav F. W., Oakland, Cal. Game apparatus. No. 982,747; Jan. 24; Sp. p. 5636; Gaz. vol. 162; p. 967.
Schultze, John, Cooper, Tex. Lathe attachment. No. 998,718; July 25; Sp. p. 4622; Gaz. vol. 168; p. 840.
Schultze, Otto C., Chicago, Ill. Loose-leaf binder. No. 995,035; June 13; Sp. p. 2063; Gaz. vol. 167; p. 361.
Schulz, Carl F. (See Schulz, Walter F., assignor.)
Schulz, Carl F., Brooklyn, N. Y. Carbureter. No. 1,010,184; Nov. 28; Sp. p. 5573; Gaz. vol. 172; p. 998.
Schulz, Fritz A., Chicago, Ill. Metal-spinning lathe. No. 987,405; Mar. 21; Sp. p. 3486; Gaz. vol. 164; p. 623.
Schulz, Fritz A., Chicago, Ill. Drill-post. No. 1,000,125; Aug. 8; Sp. p. 1932; Gaz. vol. 169; p. 348.
Schulz, Herman, Brooklyn, N. Y. Toy device. No. 996,286; June 27; Sp. p. 4806; Gaz. vol. 167; p. 852.
Schulz, Walter F., Corona, N. Y., assignor of one-half to C. F. Schulz, Pennington, N. J. Carbureter. No. 1,010,185; Nov. 28; Sp. p. 5576; Gaz. vol. 172; p. 998.
Schulze, Friedrich, Hamburg, Germany. Potato-digger. No. 997,013; July 4; Sp. p. 904; Gaz. vol. 168; p. 143.
Schulze, Otto, Brooklyn, N. Y. Flying toy. No. 989,067; Apr. 11; Sp. p. 1641; Gaz. vol. 165; p. 286.
Schumacher, Charles, Pittsburgh, Pa. Key-ring. No. 1,008,203; Nov. 7; Sp. p. 1190; Gaz. vol. 172; p. 195.
Schumacher, Georg, Wermelskirchen, Germany. Alarm-indicator for boiling purposes. No. 996,804; July 4; Sp. p. 405; Gaz. vol. 168; p. 69.
Schumacher, Henry, Denver, Colo. Pneumatic tool. No. 984,112; Feb. 14; Sp. p. 1868; Gaz. vol. 163; p. 321.
Schumacher, Henry, Denver, Colo. Pneumatic hammer. No. 996,889; July 4; Sp. p. 597; Gaz. vol. 168; p. 98.
Schumacher, Nicolas, Lamotte, Iowa. Folding table. No. 989,813; Apr. 18; Sp. p. 3270; Gaz. vol. 165; p. 571.
Schumacher, Wilhelm, Osnabrück, Germany. Increasing the binding power of basic silicates of lime. No. 1,003,813; Sept. 19; Sp. p. 3532; Gaz. vol. 170; p. 629.
Schumacher, William O., Chicago, Ill. Maternity-skirt. No. 1,006,800; Oct. 24; Sp. p. 4940; Gaz. vol. 171; p. 874.
Schuman Company, The. (See Schuman, James B., assignor.)
Schuman, George E., Louisville, Ky., assignor to A. G. Nesbitt, Wilkes-Barre, Pa. Calculating-machine. (Reissue.) No. 13,334; Dec. 5; Sp. p. 1637; Gaz. vol. 173; p. 259.
Schuman, James B., assignor to The Schuman Company, Indianapolis, Ind. Shock loader and unloader. No. 983,774; Feb. 7; Sp. p. 1103; Gaz. vol. 163; p. 177.
Schuman, James B., assignor to The Schuman Company, Indianapolis, Ind. Stalk-crop-handling machine. No. 987,406; Mar. 21; Sp. p. 3488; Gaz. vol. 164; p. 623.
Schuman, James B., assignor to The Schuman Company, Indianapolis, Ind. Shredder-feeder. No. 987,830; Mar. 28; Sp. p. 4374; Gaz. vol. 164; p. 796.
Schuman, James B., assignor to The Schuman Company, Indianapolis, Ind. Shock-handling attachment for corn husking and shredding machines. No. 990,785; Apr. 25; Sp. p. 5436; Gaz. vol. 165; p. 936.
Schumann, Christopher W., Marshalltown, Iowa. Fire-escape. No. 983,775; Feb. 7; Sp. p. 1109; Gaz. vol. 163; p. 178.
Schumann, Frank J., Bethlehem, Pa. Stamp or ticket vending machine. No. 1,009,102; Nov. 21; Sp. p. 3282; Gaz. vol. 172; p. 581.
Schuneman, Henry, Jr., Schenectady, N. Y. Car-brace. No. 988,825; Apr. 4; Sp. p. 1140; Gaz. vol. 165; p. 182.
Schurg, Peter, *et al.* (See Vannatter, John E., assignor.)
Schuring, Harm, Cherrydale, Va., assignor of one-half to J. O'Donnell, Washington, D. C. Saw-guide. No. 996,149; June 27; Sp. p. 4460; Gaz. vol. 167; p. 807.
Schuster, Ernst, Berlin, Germany. Calculating-machine. No. 1,008,079; Nov. 7; Sp. p. 928; Gaz. vol. 172; p. 149.
Schuster, George W. (See Keene and Schuster.)
Schuster, Ignatz. (See Schnorr, Paul, assignor.)
Schuster, John M. (See Egan, Charles E., assignor.)
Schuster, Karl R., New York, N. Y. Railway-tie. No. 993,798; May 30; Sp. p. 6389; Gaz. vol. 166; p. 1151.
Schutt, Duny A. (See Sturrock and Schutt.)
Schutt, Owen, Hamilton, Ontario, Canada, assignor to International Harvester Company. Journal-bearing. No. 995,916; June 20; Sp. p. 3979; Gaz. vol. 167; p. 691.
Schutte, August E., Newton, Mass. Pavement. No. 1,001,695; Aug. 29; Sp. p. 5329; Gaz. vol. 169; p. 984.
Schütte, Johann, Langfuhr, near Danzig, Germany. Driving mechanism for airships. No. 987,178; Mar. 21; Sp. p. 2995; Gaz. vol. 164; p. 544.
Schütte, Johann, Langfuhr, near Danzig, Germany. Balloon structure. No. 988,597; Apr. 4; Sp. p. 664; Gaz. vol. 165; p. 106.
Schütte, Johann, Langfuhr, near Danzig, Germany. Balloon structure. No. 992,909; May 23; Sp. p. 4463; Gaz. vol. 166; p. 818.
Schütte, Johann, Langfuhr, near Danzig, Germany. Steering mechanism for airships. No. 997,419; July 11; Sp. p. 1709; Gaz. vol. 168; p. 311.
Schütte, Johann, Langfuhr, near Danzig, Germany. Balloon-form. No. 999,469; Aug. 1; Sp. p. 537; Gaz. vol. 169; p. 95.
Schütte, Johann, Langfuhr, near Danzig, Germany. Balloon system for airships. No. 1,001,995; Aug. 29; Sp. p. 5998; Gaz. vol. 169; p. 1085.
Schuttee, Joseph, assignor of one-sixteenth to C. Solberg, Silver Springs, N. Y. Splicing-tool. No. 1,010,963; Dec. 5; Sp. p. 1245; Gaz. vol. 173; p. 197.
Schütterle, Henry. (See Schmidt and Schütterle.)
Schutz, Charles, New York, N. Y. Game-piece. No. 998,991; July 25; Sp. p. 5258; Gaz. vol. 168; p. 936.

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Schutz, Charles, New York, N. Y. Game-piece. No. 1,013,074; Dec. 26; Sp. p. 5958; Gaz. vol. 173; p. 1043.
Schutz, Joseph M., Minneapolis, Minn. Disinfecting compound and making. No. 997,514; July 11; Sp. p. 1891; Gaz. vol. 168; p. 341.
Schutze, Frederick, London, England. Teat for baby soothers and pacifiers. No. 997,331; July 11; Sp. p. 1552; Gaz. vol. 168; p. 282.
Schütze, Sophie. (See Riecke, Hedwig, assignor.)
Schütze, Woldemar, Berlin, Germany. Preventing the degeneration of cotton-shrubs. No. 1,008,738; Nov. 14; Sp. p. 2514; Gaz. vol. 172; p. 423.
Schuyler, Wilton S., Savannah, Mo. Straining-funnel. No. 987,261; Mar. 21; Sp. p. 3178; Gaz. vol. 164; p. 574.
Schwab, Charles M., Oak Park, Ill., assignor to G. E. Schwab. Device for tilting and holding in a tilted position the mattress-supporting frames of bedsteads. No. 1,009,442; Nov. 21; Sp. p. 4080; Gaz. vol. 172; p. 703.
Schwab, Georgia E. (See Schwab, Charles M., assignor.)
Schwab, Gustav, Chicago, Ill., assignor to A. Putsch, South Bethlehem, Pa. Coke-oven. No. 989,302; Apr. 11; Sp. p. 2137; Gaz. vol. 165; p. 365.
Schwab, John, Winnipeg, Manitoba, Canada. Single-boiler-heating system. No. 1,010,964; Dec. 5; Sp. p. 1247; Gaz. vol. 173; p. 198.
Schwab, John L., *et al.* (See Bromm, George, assignor.)
Schwab, Martin C., Chicago, Ill. System for collecting and distributing parcels. No. 995,379; June 13; Sp. p. 2783; Gaz. vol. 167; p. 474.
Schwab, Martin C., Chicago, Ill. Axle or shaft. No. 1,003,377; Sept. 12; Sp. p. 2595; Gaz. vol. 170; p. 446.
Schwab, Martin C., Chicago, Ill. Vehicle-wheel. No. 1,005,891; Oct. 17; Sp. p. 2897; Gaz. vol. 171; p. 525.
Schwab, Martin C., Chicago, Ill., assignor to Gravity Conveyor Company. Gravity-roller for gravity-conveyers. No. 992,910; May 23; Sp. p. 4464; Gaz. vol. 166; p. 818.
Schwab, Martin C., Chicago, Ill., assignor to Gravity Conveyor Company, New York, N. Y. Shelf for spiral gravity-conveyers. No. 1,011,253; Dec. 12; Sp. p. 1926; Gaz. vol. 173; p. 332.
Schwab, Martin C., Baltimore, Md., assignor to Gravity Conveyor Company. Switch for gravity conveyers. No. 996,944; July 4; Sp. p. 719; Gaz. vol. 168; p. 118.
Schwab, Robert W., assignor to Southern Spring Bed Company, Atlanta, Ga. Metallic couch. No. 983,776; Feb. 7; Sp. p. 1111; Gaz. vol. 163; p. 178.
Schwab, William R., assignor to Cameragraph Co., Kansas City, Mo. Photographic apparatus. No. 1,003,300; Sept. 12; Sp. p. 2446; Gaz. vol. 170; p. 421.
Schwabe, Franz. (See Herzberg, Ronus, and Schwabe.)
Schwade, Hans J., Erfurt, Germany. High-pressure centrifugal pump. No. 980,684; Jan. 3; Sp. p. 1103; Gaz. vol. 162; p. 176.
Schwaderer, Adolph, assignor to J. H. McNary, New Britain, Conn. Christmas-tree holder. No. 1,005,750; Oct. 10; Sp. p. 2580; Gaz. vol. 171; p. 444.
Schwager, Hans, Berlin, Germany. Steam-generator. No. 992,911; May 23; Sp. p. 4466; Gaz. vol. 166; p. 819.
Schwahn, Konrad, Hanau, Germany. Apparatus for engraving the interior surfaces of hollow articles. No. 990,912; May 2; Sp. p. 181; Gaz. vol. 166; p. 33.
Schwahn, Konrad, Hanau, Germany. Apparatus for engraving the interior surface of hollow articles. No. 1,003,126; Sept. 12; Sp. p. 2075; Gaz. vol. 170; p. 357.
Schwalb, Camille. (See Loos, Franz, assignor.)
Schwaller, Frank F., St. Louis, Mo. Bedstead-canopy. No. 983,407; Feb. 7; Sp. p. 318; Gaz. vol. 163; p. 54.
Schwandt, Herman, Buxton, N. D. Band-cutter attachment for forks. No. 998,407; July 18; Sp. p. 3949; Gaz. vol. 168; p. 700.
Schwartz, Carl L., St. Louis, Mo. Brake-beam fulcrum. No. 1,001,173; Aug. 22; Sp. p. 4245; Gaz. vol. 169; p. 77.
Schwartz, Carl L., St. Louis, Mo., assignor, by mesne assignments, to Flory Carry Iron Company. Railway-car. No. 988,512; Apr. 4; Sp. p. 471; Gaz. vol. 165; p. 76.
Schwartz, Charles M. and J. H., Cheboygan, Mich. Reaming-bit. No. 981,227; Jan. 10; Sp. p. 2433; Gaz. vol. 162; p. 394.
Schwartz, Edward H., assignor to Kroeschell Brothers Company, Chicago, Ill. Crucible-furnace. No. 1,001,696; Aug. 29; Sp. p. 5331; Gaz. vol. 169; p. 984.
Schwartz, Elek, New York, N. Y. Coffee-grain-serving canister. No. 1,011,859; Dec. 12; Sp. p. 3276; Gaz. vol. 173; p. 544.
Schwartz, Emanuel, New York, N. Y., assignor to The Oliver Typewriter Company, Chicago, Ill. Device for centering type-written headings. No. 1,005,892; Oct. 17; Sp. p. 2899; Gaz. vol. 171; p. 526.
Schwartz, John H. (See Schwartz, Charles M. and J. H.)
Schwartz, John O., Hope, Ind. Power-transmitting mechanism. No. 994,037; May 30; Sp. p. 6858; Gaz. vol. 166; p. 1232.
Schwartz, Joe. (See Forst, Moritz, assignor.)
Schwartz, Joseph A., Philadelphia, Pa. Wire-hat-frame-making machine. No. 989,303; Apr. 11; Sp. p. 2140; Gaz. vol. 165; p. 365.
Schwartz, Julius, Chicago, Ill. Pencil-holding pocket. No. 1,000,042; Aug. 8; Sp. p. 1704; Gaz. vol. 169; p. 318.
Schwartz, Louis, New York, N. Y. Handle for safety-razors. No. 991,377; May 2; Sp. p. 1180; Gaz. vol. 166; p. 197.
Schwartz, Morris, Brooklyn, N. Y. Vest-holder. No. 987,262; Mar. 21; Sp. p. 3180; Gaz. vol. 164; p. 575.
Schwartz, Morris, assignor to Golden Novelty Mfg. Company, Chicago, Ill. Caster. No. 1,012,167; Dec. 19; Sp. p. 3985; Gaz. vol. 173; p. 687.
Schwartz, Nathan, Milford, Ill. Knitted coat. No. 999,345; Aug. 1; Sp. p. 288; Gaz. vol. 169; p. 53.
Schwartz, Paul H., Big Sandy, Mont. Extension-standard for spring-supports for vehicle-seats. No. 1,005,893; Oct. 17; Sp. p. 2901; Gaz. vol. 171; p. 526.
Schwartz, Walter M., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying apparatus. No. 986,226; Mar. 7; Sp. p. 969; Gaz. vol. 164; p. 158.
Schwartz, Walter M., and A. M. Schreuder, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drier. No. 1,010,322; Nov. 28; Sp. p. 5856; Gaz. vol. 172; p. 1043.
Schwartz, Wilhelm. (See Wieser and Schwartz.)
Schwartz, William, Norristown, Pa. Baker's oven. No. 993,464; May 30; Sp. p. 5649; Gaz. vol. 166; p. 1034.
Schwartz, William O., Los Angeles, Cal. Bottle-closure. No. 981,482; Jan. 10; Sp. p. 2971; Gaz. vol. 162; p. 483.
Schwartzman, Edward, Tampa, Kans. Manure-loader. No. 1,010,186; Nov. 28; Sp. p. 5579; Gaz. vol. 172; p. 999.
Schwartzman, Jacub, Newark, N. J. Bed-spring. No. 980,568; Jan. 3; Sp. p. 852; Gaz. vol. 162; p. 137.
Schwartzman, Jacub, Brooklyn, N. Y. Bed-spring. No. 1,007,981; Nov. 7; Sp. p. 736; Gaz. vol. 172; p. 116.
Schwartzman, Jacub, Brooklyn, N. Y. Bed-spring. No. 1,008,080; Nov. 7; Sp. p. 930; Gaz. vol. 172; p. 149.
Schwarz, Charles L., Philadelphia, Pa. Tire. No. 997,708; July 11; Sp. p. 2313; Gaz. vol. 168; p. 409.
Schwarz, Frederick, Berne, Ind. Elevator. No. 1,000,953; Aug. 15; Sp. p. 3729; Gaz. vol. 169; p. 668.
Schwarz, Frederick W., Columbus, Ohio. Miniature greenhouse. No. 1,005,078; Oct. 3; Sp. p. 1087; Gaz. vol. 171; p. 183.
Schwarz, Ignaz, Linz, Austria-Hungary. Self-acting clockwork device for tearing the leaves off block-calendars. No. 990,459; Apr. 25; Sp. p. 4695; Gaz. vol. 165; p. 825.
Schwarz, John R., St. Joseph, Mo. Fire-escape. No. 1,006,689; Oct. 24; Sp. p. 4693; Gaz. vol. 171; p. 835.
Schwarz, Maxim, Hilden, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Printing. No. 992,270; May 16; Sp. p. 3095; Gaz. vol. 166; p. 564.
Schwarzhaupt, Wilhelm, Cologne-Marienburg, Germany. Fire-extinguisher. No. 988,598; Apr. 4; Sp. p. 666; Gaz. vol. 165; p. 107.
Schwarzhaupt, Wilhelm, Cologne, Germany. Auxiliary telephone-receiver. No. 989,814; Apr. 18; Sp. p. 3271; Gaz. vol. 165; p. 571.
Schwarzhaupt, Wilhelm, Cologne-Marienburg, Germany. Disinfecting apparatus. No. 1,005,334; Oct. 10; Sp. p. 1668; Gaz. vol. 171; p. 298.
Schwarzschild, Jennie. (See Schwarzschild, Solomon, assignor.)
Schwarzschild, Solomon, assignor to J. Schwarzschild, Rochester, N. Y. Foot-arch support. No. 999,524; Aug. 1; Sp. p. 656; Gaz. vol. 169; p. 113.
Schwebel, William C. (See Polnisch, Paul, assignor.)
Schweiger, Albert, Itzling-Salzburg, Austria-Hungary. Electric contact. No. 981,012; Jan. 10; Sp. p. 1921; Gaz. vol. 162; p. 318.
Schweiger, William F., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash-register with distant indication. No. 996,805; July 4; Sp. p. 407; Gaz. vol. 168; p. 69.
Schweiger, William F., and B. D. Straight, assignors to Multipost Company, Rochester, N. Y. Stamp-affixer. No. 999,884; Aug. 8; Sp. p. 1378; Gaz. vol. 169; p. 264.
Schweiger, William F., and B. D. Straight, assignors to Multipost Company, Rochester, N. Y. Stamp-affixer. No. 1,012,021; Dec. 19; Sp. p. 3652; Gaz. vol. 173; p. 637.
Schweikert, William, New York, N. Y. Tide-motor. No. 1,012,722; Dec. 26; Sp. p. 5153; Gaz. vol. 173; p. 923.
Schweinert, Maximilian C. (See Kraft and Schweinert.)
Schweinfurter Präcisions-Kugel-Lager-Werke Fichtel & Sachs. (See Marx, Wilhelm, assignor.)
Schweinitz, Hans G. G. von, Berlin-Halensee, assignor, by mesne assignments, to A. Müller, Charlottenburg, Germany. Discharging device for firearms. No. 995,098; June 13; Sp. p. 2201; Gaz. vol. 167; p. 382.
Schweinler, Henry R., assignor to F. A. Mills, New York, N. Y. Pressing and creasing irons. No. 999,601; Aug. 1; Sp. p. 799; Gaz. vol. 169; p. 139.
Schweiter, Jean, Horgen, near Zurich, Switzerland. Cross-winding machine. No. 1,003,301; Sept. 12; Sp. p. 2448; Gaz. vol. 170; p. 421.
Schweitzer, Edmund O., and N. J. Conrad, Chicago, Ill. Protective device. No. 1,008,496; Nov. 14; Sp. p. 1968; Gaz. vol. 172; p. 337.
Schweitzer, Edward, Manitou, Okla. Boxing for axles of farming-machines. No. 996,431; June 27; Sp. p. 5159; Gaz. vol. 167; p. 903.

Alphabetical list of patentees—Continued.

Schweitzer, Frank J., Fullerton, Cal. Ratchet rope-socket. No. 998,641; July 25; Sp. p. 4445; Gaz. vol. 168; p. 813.
Schweitzer, Heinrich, New York, N. Y. Soldering-iron for soft-soldering. No. 982,884; Jan. 31; Sp. p. 5953; Gaz. vol. 162; p. 1044.
Schweitzer, Hugo. (See Günther, Hesse, Zart, and Schweitzer.)
Schweitzer, Hugo. (See Zart and Schweitzer.)
Schweitzer, Hugo, Elberfeld, and A. Zart, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Monoazo dye. No. 1,009,796; Nov. 28; Sp. p. 4791; Gaz. vol. 172; p. 867.
Schweitzer, Hugo, Elberfeld, and A. Zart, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Disazo dyestuff. No. 1,009,797; Nov. 28; Sp. p. 4792; Gaz. vol. 172; p. 868.
Schweitzer, Richard J., Chicago, Ill. Sealed joint. No. 1,005,751; Oct. 10; Sp. p. 2582; Gaz. vol. 171; p. 444.
Schweitzer, Robert, *et al.* (See Schonert, Carl, assignor.)
Schweizer, John M. (See Lathrop, Schweizer, and Johnston.)
Schweizerische Flussiggas-Fabric L. Wolf A. G. (See Wolf, Linus, assignor.)
Schweizerische Werkzeugmaschinenfabrik Oerlikon. (See Schoeck, Ralph, assignor.)
Schwelmer Eisenwerk Müller & Co. Aktiengesellschaft. (See Schmitt, Wilhelm, assignor.)
Schwenk, Anton. (See Rosset, Schwenk, and Kutter.)
Schwenk, Ladislaus W. (See Sawicki, Norbert, assignor.)
Schwentker, Frederick F., Schenectady, N. Y., assignor to General Electric Company. Electric tire-vulcanizer. No. 1,011,860; Dec. 12; Sp. p. 3276; Gaz. vol. 173; p. 545.
Schwer, Joseph F., M. J., and L. D., Pittsburg, Pa. Sash-lock. No. 1,004,477; Sept. 26; Sp. p. 5029; Gaz. vol. 170; p. 885.
Schwer, Lawrence D. (See Schwer, Joseph F., M. J., and L. D.)
Schwer, Mark J. (See Schwer, Joseph F., M. J., and L. D.)
Schwerin, Botho, Frankfort-on-the-Main, Germany. Separating substances in suspension. No. 993,888; May 30; Sp. p. 6559; Gaz. vol. 166; p. 1182.
Schwertner, Joseph, New York, assignor of one-third to J. Aspinwall, Newburgh, N. Y., and one-third to L. F. A. H. Heerwagen, Hasbrouck Heights, N. J. Pneumatic apparatus. No. 993,415; May 30; Sp. p. 5541; Gaz. vol. 166; p. 1019.
Schwickart, Herman, Brooklyn, N. Y. Block-holder for fireproof construction. No. 984,031; Feb. 14; Sp. p. 1707; Gaz. vol. 163; p. 294.
Schwiesow, William F., Ripon, Wis. Gasolene-tank. No. 994,793; June 13; Sp. p. 1517; Gaz. vol. 167; p. 279.
Schwitzer, Louis, Indianapolis, Ind. Universal joint. No. 994,278; June 6; Sp. p. 365; Gaz. vol. 167; p. 62.
Scientific Materials Company. (See Lowe, Henry L., assignor.)
Scientific Research Co., The. (See Radcliffe, Carlton R., assignor.)
Scism, John N., Syracuse, N. Y. Pipe connection for outlet-boxes. No. 1,000,043; Aug. 8; Sp. p. 1706; Gaz. vol. 169; p. 319.
Scofield, Charles H., assignor to Scofield Universal Vending Machine Company, Cherry Valley, N. Y. Vending-machine. No. 1,003,814; Sept. 19; Sp. p. 3533; Gaz. vol. 170; p. 629.
Scofield, Ray S., Lewiston, Idaho. Mail-pouch-transferring apparatus. No. 984,396; Feb. 14; Sp. p. 2465; Gaz. vol. 163; p. 417.
Scofield Universal Vending Machine Company. (See Scofield, Charles H., assignor.)
Scohy, Augustin, Bussey, Iowa. Railway switch and frog. No. 1,001,776; Aug. 29; Sp. p. 5503; Gaz. vol. 169; p. 1011.
Scolaro, James F. (See Baker and Scolaro.)
Scollard, Garrett, Orcutt, Cal. Sash-lock. No. 989,653; Apr. 18; Sp. p. 2925; Gaz. vol. 165; p. 515.
Scooler, Sidney, Porschendorf, near Dürröhrsdorf, assignor to Firm of L. Fürstenheim, Porschendorf, Germany. Millboard-machine. No. 1,001,896; Aug. 29; Sp. p. 5776; Gaz. vol. 169; p. 1053.
Scopetani, Vincenzo. (See Bigazzi and Scopetani.)
Scotellaro, Luigi, New York, N. Y. Scaffolding-clamp. No. 986,409; Mar. 7; Sp. p. 1373; Gaz. vol. 164; p. 221.
Scott, Arthur, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Portable grinder. No. 981,013; Jan. 10; Sp. p. 1922; Gaz. vol. 162; p. 319.
Scott, Beverley R., Pittsburg, Pa. Adding device. No. 987,919; Mar. 28; Sp. p. 4595; Gaz. vol. 164; p. 827.
Scott, Charles, Baker, Oreg. Protector for vehicle-tires. No. 1,003,815; Sept. 19; Sp. p. 3537; Gaz. vol. 170; p. 629.
Scott, Charles A., Didsbury, England. Tea-blending machinery. No. 993,557; May 30; Sp. p. 5858; Gaz. vol. 166; p. 1068.
Scott, Charles E. (See Kellogg and Scott.)
Scott, Charles N., Marion, Ind. Spray-burner. No. 992,606; May 16; Sp. p. 3830; Gaz. vol. 166; p. 682.
Scott, Clarence N., Buffalo, assignor to International Steam Pump Company, New York, N. Y. Engine-frame. No. 984,161; Feb. 14; Sp. p. 1961; Gaz. vol. 163; p. 337.
Scott, Claude D., Kinston, N. C. Boot and shoe. No. 1,010,187; Nov. 28; Sp. p. 5581; Gaz. vol. 172; p. 999.
Scott, David J., *et al.*, executors. (See Scott, Walter.)
Scott, Don J., New Britain, Conn. Garment-clasp. No. 984,162; Feb. 14; Sp. p. 1963; Gaz. vol. 163; p. 337.
Scott, Edna L., Portland, Me. Hose-supporter. No. 998,992; July 25; Sp. p. 5258; Gaz. vol. 168; p. 937.
Scott, Edward A., Kansas City, Mo. Electric cranking device for automobiles. No. 1,001,174; Aug. 22; Sp. p. 4247; Gaz. vol. 169; p. 777.
Scott, Edward D. (See Scott, George E. and E. D.)
Scott, Elizabeth, Armath, Scotland. Lady's hat-fastener. No. 1,010,525; Dec. 5; Sp. p. 279; Gaz. vol. 173; p. 44.
Scott, Elmore J., assignor of one-half to J. Bauer, Fergus Falls, Minn. Rack-lifter. No. 987,831; Mar. 28; Sp. p. 4377; Gaz. vol. 164; p. 797.
Scott Engine and Construction Company. (See Scott, Joseph A., assignor.)
Scott, Frank D., San Francisco, Cal. Portable screen wall-bed. No. 1,003,153; Sept. 12; Sp. p. 2124; Gaz. vol. 170; p. 366.
Scott, Fremont, Los Angeles, Cal. Culinary article. No. 990,168; Apr. 18; Sp. p. 4000; Gaz. vol. 165; p. 690.
Scott, George, Ann Arbor, Mich. Boat-propelling mechanism. No. 998,555; July 18; Sp. p. 4229; Gaz. vol. 168; p. 749.
Scott, George E. and E. D., assignors to Timewell Sack Filling & Sewing Machine Company, Chicago, Ill. Sack-holder for sack-sewing machines. No. 1,006,690; Oct. 24; Sp. p. 4694; Gaz. vol. 171; p. 836.
Scott, Harry U., Lansdowne, Md. Combined clothes-line and prop. No. 1,012,454; Dec. 19; Sp. p. 4573; Gaz. vol. 173; p. 783.
Scott, Henry, Elk Creek, Nebr. Trap. No. 986,088; Mar. 7; Sp. p. 708; Gaz. vol. 164; p. 113.
Scott, Henry M., *et al.* (See Sohn, Ralph L., assignor.)
Scott, Homer W., Sugar Run, assignor of one-half to R. G. Frutchey, Lopez, Pa. Wrench. No. 1,010,188; Nov. 28; Sp. p. 5582; Gaz. vol. 172; p. 999.
Scott, Ira J. (See Marshall, Walker E., assignor.)
Scott, Isabella, *et al.*, executors. (See Scott, Walter.)
Scott, James, Pittsburg, Pa. Expansion-joint. No. 987,098; Mar. 14; Sp. p. 2787; Gaz. vol. 164; p. 482.
Scott, James, Denver, Colo. Automatic flushing apparatus for sewage systems. No. 988,826; Apr. 4; Sp. p. 1141; Gaz. vol. 165; p. 182.
Scott, James B., Pittsburgh, Pa. Drain connection for fire-plugs. No. 1,009,587; Nov. 21; Sp. p. 4363; Gaz. vol. 172; p. 751.
Scott, James H. (See Hobart and Scott.)
Scott, James W., Brazil, Ind. Rail-joint. No. 1,003,376; Sept. 12; Sp. p. 2594; Gaz. vol. 170; p. 446.
Scott, John A., J. F. Grubbs, and J. E. Goss, Oklahoma, Okla. Crude-oil burner. No. 981,801; Jan. 17; Sp. p. 3608; Gaz. vol. 162; p. 613.
Scott, John H., Nottingham, assignor to The British Hosiery and Electrolytic Bleaching Company, Limited, Eastcheap, London, England. Circular-knitting machine for looped fabrics. No. 981,483; Jan. 10; Sp. p. 2974; Gaz. vol. 162; p. 483.
Scott, John M., Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Railway-rail stay. No. 983,939; Feb. 14; Sp. p. 1491; Gaz. vol. 163; p. 263.
Scott, John M., Racine, Wis., assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 995,488; June 20; Sp. p. 3037; Gaz. vol. 167; p. 541.
Scott, Joseph A., Atlanta, Ind. Mail-bag fastener. No. 1,001,996; Aug. 29; Sp. p. 5999; Gaz. vol. 169; p. 1085.
Scott, Joseph A., New York, N. Y., assignor to Scott Engine and Construction Company. Reversing and valve-operating means for internal-combustion engines. No. 991,028; May 2; Sp. p. 414; Gaz. vol. 166; p. 71.
Scott, Joseph A., New York, N. Y., assignor to Scott Engine and Construction Company. Internal-combustion engine. No. 991,029; May 2; Sp. p. 419; Gaz. vol. 166; p. 72.
Scott, Leland, St. Joseph, Mo. Automatic gas-valve. No. 1,001,997; Aug. 29; Sp. p. 6000; Gaz. vol. 169; p. 1986.
Scott, Lisle T., assignor of one-half to The Traub Jewelry Manufacturing Company, Detroit, Mich. Eyeglass-chain reel. No. 992,269; May 16; Sp. p. 3094; Gaz. vol. 166; p. 563.
Scott, Louis H. (See Fisher, Andrew J., assignor.)
Scott Manufacturing Company. (See Scott, William, assignor.)
Scott, Milton D., Kewanee, Ill. Display-rack for rolls of merchandise. No. 993,416; May 30; Sp. p. 5545; Gaz. vol. 166; p. 1019.
Scott, Oscar F., Gainesville, Tex. Stalk-cutter. No. 1,002,605; Sept. 5; Sp. p. 952; Gaz. vol. 170; p. 141.
Scott Paper Company. (See Liebeck, Harry, assignor.)
Scott, Ray W., Brooklyn, N. Y. Valve. No. 1,013,075; Dec. 26; Sp. p. 5960; Gaz. vol. 173; p. 1043.
Scott, Richard W., Hamilton, Ontario, assignor of one-half to W. J. Boland, Davisville, Canada. Pole erector and setter. No. 982,443; Jan. 24; Sp. p. 5020; Gaz. vol. 162; p. 867.

Alphabetical list of patentees—Continued.

Scott, Riley E., Peekskill, N. Y. Means for dropping projectiles from aerial crafts. No. 991,378; May 2; Sp. p. 1182; Gaz. vol. 166; p. 197.
Scott, Robert F., assignor to Edwin Harrington, Son & Co., Inc., Philadelphia, Pa. Turning mechanism. No. 1,004,088; Sept. 26; Sp. p. 4220; Gaz. vol. 170; p. 753
Scott, Robert P., Cadiz, Ohio. Demountable rim and tire. No. 1,009,103; Nov. 21; Sp. p. 3288; Gaz. vol. 172; p. 582.
Scott, Robert T., Chicago, Ill. Pneumatic hammer. No. 1,003,154; Sept. 12; Sp. p. 2127; Gaz. vol. 170; p. 367.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Camden, N. J. Producing openwork knitted fabric. No. 981,318; Jan. 10; Sp. p. 2620; Gaz. vol. 162; p. 426.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Knitted fabric. No. 985,846; Mar. 7; Sp. p. 185; Gaz. vol. 164; p. 30.
Scott, Robert W., Leeds Point, assignor to Scott and Williams, Incorporated, Camden, N. J. Knitted web. No. 993,112; May 23; Sp. p. 4909; Gaz. vol. 166; p. 889.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Knitted web and making the same. No. 993,799; May 30; Sp. p. 6390; Gaz. vol. 166; p. 1152.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Web-holder for rib-knitting machines. No. 1,008,739; Nov. 14; Sp. p. 2515; Gaz. vol. 172; p. 423.
Scott, Robert W., Leeds Point, assignor to Scott & Williams, Incorporated, Camden, N. J. Projectile. No. 1,012,455; Dec. 19; Sp. p. 4574; Gaz. vol. 173; p. 784.
Scott, Robert W., Leeds Point, N. J., assignor of one-half to L. N. D. Williams, Ogontz, Pa. Circular-knitting machine. No. 1,007,494; Oct. 31; Sp. p. 6467; Gaz. vol. 171; p. 1171.
Scott, Robert W., Leeds Point, N. J., assignor to General Knit Fabric Company, Utica, N. Y. Cam for rib-knitting machines. No. 983,777; Feb. 7; Sp. p. 1112; Gaz. vol. 163; p. 178.
Scott, Shirley Z., Orient, Iowa. Spigot. No. 985,554; Feb. 28; Sp. p. 5002; Gaz. vol. 163; p. 885.
Scott, Stanley, *et al.* (See Rothlisberger, Erneste, assignor.)
Scott, Walter. (See Kinckiner and Scott.)
Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Tripping mechanism. No. 981,484; Jan. 10; Sp. p. 2976; Gaz. vol. 162; p. 483.
Scott, Walter, Plainfield, N. J.; I. and D. J. Scott, executors. Printing-couple appliance. No. 981,951; Jan. 17; Sp. p. 3995; Gaz. vol. 162; p. 666.
Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Stereotype-casting mold. No. 989,815; Apr. 18; Sp. p. 3273; Gaz. vol. 165; p. 571.
Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Delivery mechanism. No. 996,528; June 27; Sp. p. 5334; Gaz. vol. 167; p. 934.
Scott, Walter, deceased, Plainfield, N. J.; I. and D. J. Scott, executors. Printing-machine. No. 1,007,610; Oct. 31; Sp. p. 6727; Gaz. vol. 171; p. 1210.
Scott, Walter, deceased; I. and D. J. Scott, executors, Plainfield, N. J. Printing-machine. No. 1,007,895; Nov. 7; Sp. p. 562; Gaz. vol. 172; p. 87.
Scott, Walter, deceased; I. and D. J. Scott, executors, Plainfield, N. J. Printing-machine. No. 1,007,896; Nov. 7; Sp. p. 565; Gaz. vol. 172; p. 87.
Scott, Walter A., *et al.* (See Sohn, Ralph L., assignor.)
Scott, Wilbur H., Ottawa, Ontario, Canada. Dumping-wagon. No. 996,730; July 4; Sp. p. 260; Gaz. vol. 168; p. 45.
Scott, William, Medford, Mass., assignor to Scott Manufacturing Company. Carbureter. No. 1,006,411; Oct. 17; Sp. p. 4062; Gaz. vol. 171; p. 708.
Scott, William A., Consul, Ala. Tie-nipper. No. 1,005,658; Oct. 10; Sp. p. 2404; Gaz. vol. 171; p. 413.
Scott, William A., assignor of one sixty-fourth to L. F. Lincoln, Livingston, Mont. Bolt-lock. No. 986,510; Mar. 14; Sp. p. 1602; Gaz. vol. 164; p. 285.
Scott, William A., Jr., Pittsburg, Pa. Ventilator for windows. No. 985,944; Mar. 7; Sp. p. 403; Gaz. vol. 164; p. 64.
Scott, William F., Madison, Me. Sheet-tie plate. No. 987,407; Mar. 21; Sp. p. 3491; Gaz. vol. 164; p. 623.
Scott, William F., Toronto, Ontario, Canada. Reinforced concrete. No. 1,001,462; Aug. 22; Sp. p. 4845; Gaz. vol. 169; p. 874.
Scott, William H., Sr., Bangor, Pa. Blackboard-frame. No. 990,067; Apr. 18; Sp. p. 3792; Gaz. vol. 165; p. 657.
Scott, William M., Philadelphia, Pa. Circuit-breaker. No. 997,332; July 11; Sp. p. 1553; Gaz. vol. 168; p. 282.
Scott, William M., Philadelphia, Pa., assignor to The Cutter Electrical and Manufacturing Company. Electrical control apparatus. No. 993,417; May 30; Sp. p. 5547; Gaz. vol. 166; p. 1019.
Scott, William M., Philadelphia, Pa., assignor to The Cutter Electrical and Manufacturing Company. Circuit-controlling apparatus. No. 998,925; July 25; Sp. p. 5090; Gaz. vol. 168; p. 913.
Scott & Williams. (See Scott, Robert W., assignor.)
Scott & Williams. (See Swinglehurst, Harry, assignor.)
Scousa, Lino, Syracuse, N. Y. Micrometer-gage. No. 981,127; Jan. 10; Sp. p. 2176; Gaz. vol. 162; p. 358.
Scovil, Lyman A. (See Atkinson and Scovil.)
Scovill Manufacturing Company. (See Black, William M., assignor.)
Scovill Manufacturing Company. (See Doescher, Charles, assignor.)
Scovill Manufacturing Company. (See Goss, John H., assignor.)
Scovill Manufacturing Company. (See King, George A., assignor.)
Scovill Manufacturing Company. (See Long, George R., assignor.)
Scovill Manufacturing Company. (See Perrine, George H., assignor.)
Scovill, Royal J., and W. E. Brown, Glens Falls, N. Y. Paper-machine. No. 985,376; Feb. 28; Sp. p. 4582; Gaz. vol. 163; p. 822.
Scoville, Avery. (See Scoville, Frank, assignor.)
Scoville, Frank, assignor of one-half to A. Scoville, Oakland, Cal. Lens-grinding machine. No. 1,003,816; Sept. 19; Sp. p. 3538; Gaz. vol. 170; p. 629.
Scoville, Frank F. (See Cole and Scoville.)
Scrable, Frank J., Pittsburg, Pa. Whetstone. No. 1,002,086; Aug. 29; Sp. p. 6161; Gaz. vol. 169; p. 1114.
Scribner, Charles E., Jericho, Vt., assignor to Western Electric Company, New York, N. Y. Electromagnet. No. 1,012,020; Dec. 19; Sp. p. 3651; Gaz. vol. 173; p. 637.
Scrimgeour, William, Portsmouth, Va. Link-welding dies. No. 1,008,371; Nov. 14; Sp. p. 1645; Gaz. vol. 172; p. 293.
Scripps, William E., Detroit, Mich. Intake-manifold. No. 998,124; July 18; Sp. p. 3316; Gaz. vol. 168; p. 598.
Scrivner, John C., Madison, Ill. Hydrocarbon-furnace. No. 1,003,522; Sept. 19; Sp. p. 2895; Gaz. vol. 170; p. 529.
Scroggie, George, San Diego, Cal. Wire-stretcher. No. 981,126; Jan. 10; Sp. p. 2175; Gaz. vol. 162; p. 358.
Scroggin, Carter R. (See Dunkel, Wilber R., assignor.)
Scrote, Merle C., Cleveland, Ohio. Cabinet-stove. No. 998,208; July 18; Sp. p. 3476; Gaz. vol. 168; p. 626.
Scruby, John, Roodhouse, Ill. Harness-saddle. No. 985,293; Feb. 28; Sp. p. 4419; Gaz. vol. 163; p. 795.
Scruggs, George R., assignor of one-half to G. Bray, Mooresville, Ind. Heel for boots and shoes. No. 993,279; May 23; Sp. p. 5236; Gaz. vol. 166; p. 939.
Scruggs, Loyd, Omaha, Nebr. Concealed-hinge stove-door. No. 1,007,147; Oct. 31; Sp. p. 5722; Gaz. vol. 171; p. 1049.
Scruggs, Loyd, assignor to Copper Clad Malleable Range Company, St. Louis, Mo. Stove and range. No. 993,558; May 30; Sp. p. 5859; Gaz. vol. 166; p. 1068.
Scudder, Hewlett. (See Hohmann, Richard K., assignor.)
Scullin-Gallagher Iron & Steel Company. (See Knight, Sherwood S., assignor.)
Scullin-Gallagher Iron & Steel Company. (See Shallenberger and Howard, assignors.)
Scullin, Terance. (See Skov and Scullin.)
Scully, Thomas E., Napa, Cal. Glove. No. 983,649; Feb. 7; Sp. p. 848; Gaz. vol. 163; p. 135.
Scurlock, Charles, Pasadena, Cal. Oil-can indicator. No. 980,348; Jan. 3; Sp. p. 334; Gaz. vol. 162; p. 61.
Seaberg, Frederick. (See Neikirk and Seaberg.)
Seaberg, Frederick, Chicago, Ill., assignor to National Dump Car Company. Dump-door-operating mechanism. No. 992,607; May 16; Sp. p. 3831; Gaz. vol. 166; p. 683.
Seaberg, Frederick, assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism. No. 1,000,443; Aug. 15; Sp. p. 2626; Gaz. vol. 169; p. 488.
Seaberg, Frederick, assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism. No. 1,000,555; Aug. 15; Sp. p. 2877; Gaz. vol. 169; p. 528.
Seaberg, Frederick, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,011,254; Dec. 12; Sp. p. 1929; Gaz. vol. 173; p. 332.
Seaberg, Frederick, assignor of one-half to D. Bigelow, Chicago, Ill. Anticreeper for rails. No. 993,889; May 30; Sp. p. 6561; Gaz. vol. 166; p. 1182.
Seaboard Metal Works. (See Pogue, Joseph W., assignor.)
Seabolt, Frank J., *et al.* (See Rupley, George H., assignor.)
Seabolt, Frank J., Schenectady, N. Y., assignor to General Electric Company. Starting and speed-regulating rheostat. No. 1,000,848; Aug. 15; Sp. p. 3515; Gaz. vol. 169; p. 632.
Seabrook, Charles H., and W. R. Duff, Teague, Tex. Draft construction for frame railway-cars. No. 990,013; Apr. 18; Sp. p. 3691; Gaz. vol. 165; p. 640.
Seager, James B., Lansing, Mich. Carbureter. No. 984,032; Feb. 14; Sp. p. 1708; Gaz. vol. 163; p. 294.
Seago, George W., Eros, La. Nut-lock. No. 1,007,738; Nov. 7; Sp. p. 182; Gaz. vol. 172; p. 31.
Seagroves, Jay A. (See Matters, Edward R., assignor.)
Seal, William D., Des Arc, Mo. Means for propelling carriages. No. 986,227; Mar. 7; Sp. p. 971; Gaz. vol. 164; p. 158.
Seale, William D., Montreal, Quebec, Canada. Street-indicator. No. 1,001,311; Aug. 22; Sp. p. 4553; Gaz. vol. 169; p. 824.

Alphabetical list of patentees—Continued.

Sealock, Ormel G., Scipio, Ind. Potato-parer. No. 982,098; Jan. 17; Sp. p. 4293; Gaz. vol. 162; p. 715.
Sealshipt Oyster System. (See Hulbert, Edwin F., assignor.)
Seaman, David S. (See Ward, Irving, assignor.)
Seamless Sash Weight Company. (See Hodges, Addison S., assignor.)
Seaquist, Richard, *et al.* (See Nystrom, Carl F., assignor.)
Searcy, William N., Silverton, Colo. Flying-machine. No. 998,408; July 18; Sp. p. 3950; Gaz. vol. 168; p. 700.
Searle, Elbert H., Springfield, Mass., assignor of three-fourths to W. D. Condit, Des Moines, Iowa. Firearm. No. 985,847; Mar. 7; Sp. p. 188; Gaz. vol. 164; p. 30.
Searle, Frederick E. (See Avery and Searle.)
Searle, James W., El Paso., Tex. Feed-regulator. No. 990,395; Apr. 25; Sp. p. 4553; Gaz. vol. 165; p. 803.
Searles, Aaron M. (See Schmidt, Herman A., assignor.)
Searles, Edwin A., Detroit, Mich. Milling-tool. No. 990,068; Apr. 18; Sp. p. 3793; Gaz. vol. 165; p. 657.
Searles, Orren I., Joplin, Mo. Combined fish-trap and pail. No. 996,731; July 4; Sp. p. 261; Gaz. vol. 168; p. 46.
Sears, Eugene S., assignor of one-third to H. J. Peters and one-third to F. D. Fox, Chicago. Ill. Automatic cut-out for electric circuits. No. 1,002,544; Sept. 5; Sp. p. 812; Gaz. vol. 170; p. 119.
Sears, Fred J., Aurora, Ill. Lamp-bracket. No. 1,001,897; Aug. 29; Sp. p. 5781; Gaz. vol. 169; p. 1054.
Sears, John E., Hendon, England. Valve of internal-combustion engines. No. 1,010,189; Nov. 28; Sp. p. 5584; Gaz. vol. 172; p. 1000.
Sears, John E., Hendon, England. Valve for internal-combustion engines. No. 1,011,861; Dec. 12; Sp. p. 3278; Gaz. vol. 173; p. 545.
Sears, Roebuck & Co. (See Bradley, Byron C., assignor.)
Sears, Roebuck & Company. (See Christensen, Carl, assignor.)
Sears, Roebuck & Company. (See Fowler, Gordon F., assignor.)
Sears, Roebuck & Company. (See Krotz, Alvaro S., assignor.)
Sears, Roebuck & Company. (See Waring, Stewart, assignor.)
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Metal-planer. No. 987,263; Mar. 21; Sp. p. 3181; Gaz. vol. 164; p. 575.
Sears, Willard T., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, Jersey City, N. J. Gapped gear. No. 987,920; Mar. 28; Sp. p. 4599; Gaz. vol. 164; p. 827.
Sears, Willard T., Philadelphia, Pa., and S. H. Keefer, Plainfield, assignors to Niles-Bement-Pond Company, Jersey City, N. J. System of motor control. No. 996,529; June 27; Sp. p. 5338; Gaz. vol. 167; p. 935.
Seaton, Strowbridge B., and R. G. Travis, assignors to International Tag Company, Chicago, Ill. Tag-making machine. No. 981,014; Jan. 10; Sp. p. 1923; Gaz. vol. 162; p. 319.
Seattle Car Manufacturing Company, The. (See Chriswell, Frederick W., assignor.)
Seaver, John W., *et al.* (See Cromwell, John C., assignor.)
Seaver, John W., deceased, (M. T. P. Seaver, executrix,) Cleveland Heights, and J. E. A. Moore, East Cleveland, Ohio; said Moore assignor to said Seaver. Coke-quenching machine. No. 998,556; July 18; Sp. p. 4230; Gaz. vol. 168; p. 750.
Seaver, Mary T. P., executrix. (See Seaver and Moore.)
Seaverns, John A., Jamaica Plain, Mass. Liquid-fuel-burning apparatus. No. 1,008,740; Nov. 14; Sp. p. 2516; Gaz. vol. 172; p. 424.
Seavey, Eugene, assignor to Arbuckle Brothers, New York, N. Y. Feeding device. No. 1,012,106; Dec. 19; Sp. p. 3855; Gaz. vol. 173; p. 667.
Sebba, Nathan, assignor of one-half to S. J. Richman, Chicago, Ill. Feeding mechanism for presses. No. 1,002,934; Sept. 12; Sp. p. 1694; Gaz. vol. 170; p. 293.
Sebring, Emma G., New York, N. Y. Chair. No. 1,001,312; Aug. 22; Sp. p. 4555; Gaz. vol. 169; p. 824.
Secor, Harry W., Trenton, N. J. Testing instrument. No. 1,000,300; Aug. 8; Sp. p. 2296; Gaz. vol. 169; p. 407.
Secor, Jerome B., assignor, by mesne assignments, to Secor Typewriter Company, Derby, Conn. Controlling mechanism for the carriages of type-writing machines. No. 982,885; Jan. 31; Sp. p. 5953; Gaz. vol. 162; p. 1044.
Secor Typewriter Company. (See Secor, Jerome B., assignor.)
Securities Holding Company of the State of South Carolina. (See Stevenson, William M., assignor.)
Security Envelope Fastener Company. (See Michel and Jones, assignors.)
Security and Holding Company. (See Alling, James H., assignor.) (Reissue.)
Seda y Acosta, Pedro R. de la, Ponce, Porto Rico. Paddle-wheel. No. 1,012,163; Dec. 19; Sp. p. 3979; Gaz. vol. 173; p. 686.
Seddon, James A. (See Seddon, William L. and J. A.)
Seddon, William L. and J. A., Portsmouth, Va. Calculator for tariffs. No. 990,202; Apr. 18; Sp. p. 4082; Gaz. vol. 165; p. 701.
Sedgwick, Earl P., Highland Park, Ill. Cooker. No. 993,113; May 23; Sp. p. 4914; Gaz. vol. 166; p. 889.
Sedoff, Samuel, Montclair, N. J. Electrical connection. No. 991,030; May 2; Sp. p. 424; Gaz. vol. 166; p. 73.
See, Alonzo B. (See Lindstrom, Nils O., assignor.)
Seeberger, Charles D., Yonkers, N. Y. Conveyer. No. 984,304; Feb. 14; Sp. p. 2287; Gaz. vol. 163; p. 388.
Seeberger, Charles D., Yonkers, N. Y. Conveyer. No. 984,495; Feb. 14; Sp. p. 2668; Gaz. vol. 163; p. 449.
Seeberger, Charles D., Yonkers, N. Y. Conveyer. No. 984,858; Feb. 21; Sp. p. 3467; Gaz. vol. 163; p. 613.
Seeberger, Charles D., Yonkers, N. Y. Cable. No. 989,539; Apr. 11; Sp. p. 2659; Gaz. vol. 165; p. 447.
Seeberger, Charles D., Yonkers, N. Y., assignor to Otis Elevator Company. Conveyer. No. 994,879; June 13; Sp. p. 1729; Gaz. vol. 167; p. 309.
Seeberger, Charles D., New York, N. Y., assignor to Otis Elevator Company. Elevator. No. 999,885; Aug. 8; Sp. p. 1382; Gaz. vol. 169; p. 265.
Seeberger, Henry F., Jersey City, N. J. Bird and fowl perch. No. 992,071; May 9; Sp. p. 2610; Gaz. vol. 166; p. 464.
Seeger, August C., East St. Louis, Ill. Sprinkler-head shut-off device. No. 986,228; Mar. 7; Sp. p. 972; Gaz. vol. 164; p. 158.
Seeger, August C., East St. Louis, Ill. Bait-receptacle. No. 986,229; Mar. 7; Sp. p. 974; Gaz. vol. 164; p. 159.
Seegmueller, Paul C. (See Bennett, Harrey H., assignor.)
Seel, George, Oak Hill, Ohio. Plate-lifter. No. 990,913; May 2; Sp. p. 182; Gaz. vol. 166; p. 33.
Seeley, Alfred, and H. Holt, Rochdale, England. Spindle. No. 996,530; June 27; Sp. p. 5342; Gaz. vol. 167; p. 935.
Seeley, Charles W., and C. S. Ross, Hollywood, Cal. Wheel. No. 981,128; Jan. 10; Sp. p. 2180; Gaz. vol. 162; p. 359.
Seeley, Frank E. (See Thomas and Seeley.)
Seeley, Frank E., Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn. Incandescent-lamp socket. No. 982,693; Jan. 24; Sp. p. 5512; Gaz. vol. 162; p. 950.
Seeley, Frank E., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,006,296; Oct. 17; Sp. p. 3817; Gaz. vol. 171; p. 668.
Seeley, Frank E., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp socket. No. 1,006,884; Oct. 24; Sp. p. 5142; Gaz. vol. 171; p. 905.
Seeley, Frank E., and G. B. Thomas, assignors to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,008,081; Nov. 7; Sp. p. 932; Gaz. vol. 172; p. 150.
Seeley, Herbert E., Springfield, Mo. Film-developing tank. No. 1,012,723; Dec. 26; Sp. p. 5158; Gaz. vol. 173; p. 924.
Seeley, Minerva E., San Luis Obispo, Cal. Meat-cutter. No. 1,010,190; Nov. 28; Sp. p. 5586; Gaz. vol. 172; p. 1000.
Seelig, Edmund, Berlin, Germany. Dirigible airship. No. 1,008,437; Nov. 14; Sp. p. 1831; Gaz. vol. 172; p. 316.
Seeling, August, Sherodsville, Ohio. Skirt-marker. No. 985,070; Feb. 21; Sp. p. 3877; Gaz. vol. 163; p. 684.
Seely, Arthur Y., Blaine, Wash. Cleaning mechanism for can-lacquering machines. No. 999,186; July 25; Sp. p. 5626; Gaz. vol. 168; p. 1001.
Seely, Herman B., Chicago, Ill. Insulated receptacle. No. 995,188; June 13; Sp. p. 2373; Gaz. vol. 167; p. 411.
Seelye, William E., Spokane, Wash. Water-wheel. No. 1,008,372; Nov. 14; Sp. p. 1646; Gaz. vol. 172; p. 294.
Seep, Joseph. (See Wilfley, Arthur R., assignor.)
Seery, Peter H., Newark, N. J. Apparatus for making square metal tubes. No. 997,709; July 11; Sp. p. 2314; Gaz. vol. 168; p. 409.
Seeton, James H., Tyler, Tex. Nut-lock. No. 998,409; July 18; Sp. p. 3955; Gaz. vol. 168; p. 701.
Sefton Manufacturing Company, The. (See Clenny and Fairchild, assignors.)
Sefton Manufacturing Company, The. (See Reber, John G., assignor.)
Segal, Hyman. (See Publicker and Segal.)
Segel, Ernest, assignor of one-half to J. Stanecky, Chicago, Ill. Brush. No. 1,007,739; Nov. 7; Sp. p. 183; Gaz. vol. 172; p. 31.
Seger, Albert J. (See Lowe and Seger.)
Seger, Albert J., A. and J. Lowe, Ward, Idaho. Cutting mechanism. No. 992,691; May 16; Sp. p. 3980; Gaz. vol. 166; p. 710.
Seger, Eberhard, Stockholm, Sweden. Vibratory massaging apparatus. No. 1,009,588; Nov. 21; Sp. p. 4364; Gaz. vol. 172; p. 752.
Seget, Edward, Warsaw, Russia. Electric signal. No. 1,007,243; Oct. 31; Sp. p. 5938; Gaz. vol. 171; p. 1084.
Seghers, Adolphe, assignor to "Pyrotrass" Société Anonyme pour la Fabrication du Trass Artificial (Breveté) et ses Applications Industrielles, Paris, France. Granulating slag. No. 1,008,204; Nov. 7; Sp. p. 1191; Gaz. vol. 172; p. 195.
Seguin, Louis L. A., assignor to Societe des Moteurs Gnome, Paris, France. Explosion-motor. No. 984,033; Feb. 14; Sp. p. 1709; Gaz. vol. 163; p. 294.

Alphabetical list of patentees—Continued.

Segundo, Edward C. de, London, England. Apparatus for detaching and separating fibers from cotton-hulls. No. 980,349; Jan. 3; Sp. p. 335; Gaz. vol. 162; p. 61.
Seib, George A., Ilion, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 988,147; Mar. 28; Sp. p. 5093; Gaz. vol. 164; p. 903.
Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 992,912; May 23; Sp. p. 4467; Gaz. vol. 166; p. 819.
Seib, George A., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,012,168; Dec. 19; Sp. p. 3986; Gaz. vol. 173; p. 688.
Seibert, Bennett F., Mansfield, Ohio. Adjustable concrete-form. No. 991,755; May 9; Sp. p. 1988; Gaz. vol. 166; p. 357.
Seibert, Carl. (See Kreissl and Seibert.)
Seibert, Edward L., Sr., Louisville, Ky. Lubricator. No. 987,082; Mar. 14; Sp. p. 2759; Gaz. vol. 164; p. 477.
Seibert, Enoch, Didsbury, Alberta, Canada. Binder-reel. No. 981,319; Jan. 10; Sp. p. 2622; Gaz. vol. 162; p. 427.
Seibert, Enoch, Didsbury, Alberta, Canada. Pipe-fishing tool. No. 987,832; Mar. 28; Sp. p. 4378; Gaz. vol. 164; p. 797.
Seibert, Herman E., St. Paul, Minn. Insect-destroyer. No. 1,000,556; Aug. 15; Sp. p. 2880; Gaz. vol. 169; p. 528.
Seibt, Georg, Berlin, Germany, assignor to The Amalgamated Radio-Telegraph Company, Limited, London, England. Radio-telephony. No. 1,012,456; Dec. 19; Sp. p. 4576; Gaz. vol. 173; p. 784.
Seidelinger, Robie, Wilmington, Del. Metallic railway-tie. No. 991,756; May 9; Sp. p. 1989; Gaz. vol. 166; p. 357.
Seidelinger, Robie, assignor of one-half to J. Bancroft, Wilmington, Del. Type-writer. No. 1,008,497; Nov. 14; Sp. p. 1970; Gaz. vol. 172; p. 337.
Seidenberg, L., *et al.* (See Cochran, Edward A., assignor.)
Seidler, Christopher, Staunton, Ill. Non-refillable bottle. No. 999,886; Aug. 8; Sp. p. 1397; Gaz. vol. 169; p. 265.
Seidman, Charles, Philadelphia, Pa. Woven tubular muffler. No. 986,869; Mar. 14; Sp. p. 2365; Gaz. vol. 164; p. 410.
Seidner, Michael, Budapest, Austria-Hungary, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Voltage regulation of dynamo-electric alternating-current machinery. No. 980,844; Jan. 3; Sp. p. 1420; Gaz. vol. 162; p. 227
Seifert, Adolph R. R., deceased; B. Campbell, administratrix, assignor of one-half to J. Gackenheimer, Brenham, Tex. Ant-trap. No. 1,012,571; Dec. 19; Sp. p. 4818; Gaz. vol. 173; p. 826.
Seifert, Ferdinand, Themar, Germany. Window-guard for preventing children from falling out of windows. No. 1,006,297; Oct. 17; Sp. p. 3818; Gaz. vol. 171; p. 669.
Seigle, William R., Nashua, N. H. Forming insulating-tubes. No. 981,129; Jan. 10; Sp. p. 2181; Gaz. vol. 162; p. 359.
Seigle, William R., Nashua, N. H., assignor to H. W. Johns-Manville Company, New York, N. Y. Machine for curing laminated paper tubes and the like. No. 1,005,335; Oct. 10; Sp. p. 1669; Gaz. vol. 171; p. 299.
Seiler, Paul, San Francisco, Cal. Aerial machine. No. 994,339; June 6; Sp. p. 487; Gaz. vol. 167; p. 84.
Seils, William A., Pound, Wis. Wrench. No. 992,913; May 23; Sp. p. 4471; Gaz. vol. 166; p. 820.
Seim, John, *et al.* (See Beers, Harry F., assignor.)
Seipp, Clarence T. (See Lankford, Jerome J., assignor.)
Seipp, Clarence T., Globe, Ariz. Trousers and garment hanger. No. 1,012,169; Dec. 19; Sp. p. 3990; Gaz. vol. 173; p. 688.
Seipp, Henry C., Coraopolis, Pa. Cellar-door construction. No. 984,034; Feb. 14; Sp. p. 1711; Gaz. vol. 163; p. 294.
Seipp, Henry C., Coraopolis, Pa. Mold for concrete constructions. No. 986,767; Mar. 14; Sp. p. 2145; Gaz. vol. 164; p. 373.
Seipp, Henry C., Coraopolis, Pa. Mold for forming sidewalks and other like constructions. No. 994,540; June 6; Sp. p. 911; Gaz. vol. 167; p. 151.
Seischab, Stephen, Nuremberg, Germany. Kinematographic apparatus. No. 986,318; Mar. 7; Sp. p. 1170; Gaz. vol. 164; p. 189.
Seitter, Emil A. (See Klein and Seitter.)
Seitz, Edward. (See Lockwood and Seitz.)
Seitz, Edward, assignor of one-half to J. E. Lockwood, Peoria, Ill. Vapor-lamp. No. 1,004,478; Sept. 26; Sp. p. 5031; Gaz. vol. 170; p. 885.
Seitz, Frederick. (See Zetschok and Seitz.)
Seitz, George W., assignor to The Taylor Provision Company, Trenton, N. J. Meat-package. No. 1,011,862; Dec. 12; Sp. p. 3280; Gaz. vol. 173; p. 545.
Sekikawa, Tsunesuke, Hokkaido, Japan. Toy. No. 1,007,011; Oct. 24; Sp. p. 5401; Gaz. vol. 171; p. 946.
Sekine, Sentaro, Chicago, Ill. Siphon. No. 991,657; May 9, Sp. p. 1796; Gaz. vol. 163; p. 327.
Sekowsky, Hermann A., assignor to Loeffelholz Company, Milwaukee, Wis. Carbureter. No. 1,002,458; Sept. 5; Sp. p. 631; Gaz. vol. 170; p. 91.
Selah, Howard A., assignor to C. N. Anderson, trustee, Philadelphia, Pa. Rotary meter. No. 1,009,934; Nov. 28; Sp. p. 5055; Gaz. vol. 172; p. 913.
Selby, Howard D. (See Delaney and Selby.)
Selby, Pearl E. (See West and Jackman, assignors.)
Selden, Arthur R., Rochester, N. Y. Vehicle-spring. No. 987,833; Mar. 28; Sp. p. 4380; Gaz. vol. 164; p. 797.
Selden, Arthur R., Rochester, N. Y. Mechanical stoker. No. 987,834; Mar. 28; Sp. p. 4385; Gaz. vol. 164; p. 798.
Selden, Arthur R., assignor of one-fifth to W. D. Ellwanger, Rochester, N. Y. Running-gear for vehicles. No. 1,008,373; Nov. 14; Sp. p. 1647; Gaz. vol. 172; p. 294.
Selden, Arthur R., assignor of one-third to W. H. Caldwell and one-third to C. S. Davis, Rochester, N. Y. Automatic fuel-feeding device. No. 985,211; Feb. 28; Sp. p. 4227; Gaz. vol. 163; p. 767.
Selden, Arthur R., assignor of one-third to W. H. Caldwell and one-third to C. S. Davis, Rochester, N. Y. Automatic stoker. No. 986,870; Mar. 14; Sp. p. 2366; Gaz. vol. 164; p. 410.
Selden, Edward P., assignor to Erie City Iron Works, Erie, Pa. Furnace. No. 991,805; May 9; Sp. p. 2090; Gaz. vol. 166; p. 374.
Selden, Edward P., assignor to Erie City Iron Works, Erie, Pa. Furnace-casing. No. 998,125; July 18; Sp. p. 3318; Gaz. vol. 168; p. 598.
Selden, Emma J., Spartanburg, S. C. Hook and eye. No. 988,827; Apr. 4; Sp. p. 1142; Gaz. vol. 165; p. 183.
Seldeneck, Hans F. von. (See Lang, Albert, assignor.)
Seldin, Nathan A., New York, N. Y. Container for ostrich-plumes. No. 981,485; Jan. 10; Sp. p. 2979; Gaz. vol. 162; p. 484.
Selective Signal Company. (See Manny, Ira F., assignor.)
Seley, Charles A., Chicago, Ill. Carline. No. 1,002,935; Sept. 12; Sp. p. 1696; Gaz. vol. 170; p. 293.
Self, Benjamin H. (See Doane and Self.)
Self Scoring Target Company. (See Ellis, Mark S., assignor.)
Selfridge, Edward A., administrator. (See Bell, Baldwin, McCurdy, Curtiss, and Selfridge.)
Selfridge, Thomas E. (See Bell, Baldwin, McCurdy, Curtiss, and Selfridge.)
Selhaver, Christopher H., St. Paul, Minn. Folding umbrella. No. 1,007,244; Oct 31; Sp. p. 5940; Gaz. vol. 171; p. 1084.
Selig Polyscope Company, The. (See Grashin, Max, assignor.)
Selig Polyscope Company, The. (See Selig, William N., assignor.)
Selig, William N. (See Hoglund, Gustav E., assignor.)
Selig, William N., assignor to The Selig Polyscope Company, Chicago, Ill. Carbon-holder for arc-lamps. No. 984,496; Feb. 14; Sp. p. 2679; Gaz. vol. 163; p. 450.
Selig, William N., assignor to Selig Polyscope Company, Chicago, Ill. Cutting-tool. No. 990,786; Apr. 25; Sp. p. 5442; Gaz. vol. 165; p. 937.
Selig, William N., assignor to Selig Polyscope Company, Chicago, Ill. Cutting-tool. No. 990,787; Apr. 25; Sp. p. 5444; Gaz. vol. 165; p. 937.
Selig, William N., assignor to The Selig Polyscope Company, Chicago, Ill. Film-magazine. No. 999,679; Aug. 1; Sp. p. 950; Gaz. vol. 169; p. 166.
Seligman, David A., St. Joseph, Mo. Fruit and vegetable peeler and slicer. No. 991,097; May 2; Sp. p. 560; Gaz. vol. 166; p. 97.
Selleck, Allen C., Chicago, Ill. Handle and combined locking member and retainer therefor. No. 998,557; July 18; Sp. p. 4232; Gaz. vol. 168; p. 750.
Selleck, Silas E., assignor of one-third to W. H. Hill and one-third to M. E. Noble, Cold Spring, N. Y., executrix of A. Noble, deceased. Baker's peel-holder. No. 997,213; July 4; Sp. p. 1298; Gaz. vol. 168; p. 211.
Selleck, Wallace L., Platteville, Wis. Lock. No. 1,004,698; Oct. 3; Sp. p. 315; Gaz. vol. 171; p. 54.
Sellen, Thomas E., *et al.* (See Harris, Charles S., assignor.)
Sellers, Herbert H., Oakland, Cal. Adjustable filing-case. No. 987,018; Mar. 14; Sp. p. 2646; Gaz. vol. 164; p. 457.
Sellers, Jacob L., Chicota, Tex. Elevating-truck. No. 985,212; Feb. 28; Sp. p. 4232; Gaz. vol. 163; p. 768.
Sellers, John M., assignor to Sellers Manufacturing Company, Chicago, Ill. Tie-plate. No. 1,000,954; Aug. 15; Sp. p. 3731; Gaz. vol. 169; p. 668.
Sellers Manufacturing Company. (See Knaus, Gottfrid, assignor.)
Sellers Manufacturing Company. (See Lentz, David H., assignor.)
Sellers Manufacturing Company. (See Sellers, John M., assignor.)
Sellers, Matthew B., Baltimore, Md. Aerial navigation. No. 997,860; July 11; Sp. p. 2693; Gaz. vol. 168; p. 463.
Sells, John H. (See Sells, William H. and J. H.)
Sells, William H. and J. H., Oskaloosa, Iowa. Metal tool-box. No. 1,001,086; Aug. 22; Sp. p. 4093; Gaz. vol. 169; p. 750.
Selma Fruit Company. (See Elliott, Thomas H., assignor.)
Seltner, Wilhelm, Schlan, Austria-Hungary. Jigger. No. 987,179; Mar. 21; Sp. p. 2997; Gaz. vol. 164; p. 544.
Selva, Secondina. (See Maurino, Henry Q., assignor.)
Semet-Solvay Company. (See Pennock, Witherby, Blauvelt, Trump, and Tufts, assignors.)
Semler, John C., Hagerstown, Md. Harness-tug. No. 1,000,760; Aug. 15; Sp. p. 3327; Gaz. vol. 169; p. 601.

Alphabetical list of patentees—Continued.

Semple, Charles H., Trenton, N. J. Tire-case. No. 998,042; July 18; Sp. p. 3125; Gaz. vol. 168; p. 568.
Semple, John B., Sewickley, Pa. Projectile. No. 999,470; Aug. 1; Sp p. 538; Gaz. vol. 169; p. 95.
Semple, John B., Sewickley, Pa. Tracer for projectiles. No. 1,011,863; Dec. 12; Sp. p. 3280; Gaz. vol. 173; p. 545.
Senderling, Martin L., Jersey City, N. J. Bottom-dumping wagon. No. 997,861; July 11; Sp. p. 2698; Gaz. vol. 168; p. 463.
Sendlein, Andreas, St. Louis, Mo. Fire-kindler. No. 987,921; Mar. 28; Sp. p. 4601; Gaz. vol. 164; p. 828.
Seneca Camera Manufacturing Company. (See Goddard, Joseph, assignor.)
Seneca Falls Manufacturing Company, The. (See Runge, William, assignor.)
Senecal, Ernest W., Rutland, Vt. Holding attachment for racks. No. 985,294; Feb. 28; Sp. p. 4419; Gaz. vol. 163; p. 796.
Seneff, John H., and S. Dixon, French Lick, Ind. Self-propelling lifting-jack. No. 992,914; May 23; Sp. p. 4472; Gaz. vol. 166; p. 820.
Seng Company, The. (See Barbrake, John A., assignor.)
Seng Company, The. (See Powell, Howell C., assignor.)
Seng Company, The. (See Seng, Wendelin P., assignor.)
Seng, Frank J. (See Lucas, Joseph C., assignor.)
Seng, Wendelin P., assignor to The Seng Company, Chicago, Ill. Metal cap for bed-posts. No. 997,420; July 11; Sp. p. 1711; Gaz. vol. 168; p. 311.
Senge, Liborius, Crescent Springs, Ky., assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Desk-tray. No. 982,538; Jan. 24; Sp. p. 5214; Gaz. vol. 162; p. 899.
Senge, Liborius, Crescent Springs, Ky., assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Leg-base for sectional bookcases. No. 1,008,082; Nov. 7; Sp. p. 933; Gaz. vol. 172; p. 150.
Senn, Carl, assignor of one-half to J. J. Smith, Stockton, Cal., and one-fourth to D. C. Demarest, San Francisco, Cal. Self-lubricating air-valve. No. 1,006,691; Oct. 24; Sp. p. 4697; Gaz. vol. 171; p. 836.
Senn, Carl, and D. C. Demarest, San Francisco, Cal. Lubricating-valve. No. 984,305; Feb. 14; Sp. p. 2296; Gaz. vol. 163; p. 388.
Senseman, Walter N., Camden, N. J. Shipping-tag. No. 1,005,894; Oct. 17; Sp. p. 2902; Gaz. vol. 171; p. 526.
Sensenig, David S., Norristown, Pa. Lock. No. 1,000,444; Aug. 15; Sp. p. 2629; Gaz. vol. 169; p. 488.
Sentz, Carl A., New York, N. Y. Hat-pin protector. No. 1,004,823; Oct. 3; Sp. p. 585; Gaz. vol. 171; p. 96.
Serp, Joseph, Canton, Ohio. Garment-hanger. No. 1,002,767; Sept. 5; Sp. p. 1306; Gaz. vol. 170; p. 196.
Serpek, Ottokar, assignor to Société Generale Des Nitrures, Paris, France. Producing aluminum nitrid. No. 987,408; Mar. 21; Sp. p. 3492; Gaz. vol. 164; p. 624.
Serpek, Ottokar, assignor to Société Generale Des Nitrures, Paris, France. Manufacture of aluminium nitrid. No, 996,032; June 20; Sp. p. 4212; Gaz. vol. 167; p. 731.
Serpek, Ottokar, assignor to Société Generale des Nitrures, Paris, France. Making pure alumina. No. 1,007,495; Oct. 31; Sp. p. 6474; Gaz. vol. 171; p. 1171.
Serpico, Frank. (See Mauro, Frank, assignor.)
Serrell, John A., North Plainfield, assignor to Warren Webster & Company, Camden, N. J. Radiator-valve and attachment therefor. No. 991,550; May 9; Sp. p. 1558; Gaz. vol. 166; p. 288.
Serres, Joseph B., Houltonville, La. Apparatus for raising sunken vessels. No. 1,002,184; Aug. 29; Sp. p. 6340; Gaz. vol. 169; p. 1146.
Sersen, Frederick J., Milwaukee, Wis. Cork-extractor. No. 983,778; Feb. 7; Sp. p. 1113; Gaz. vol. 163; p. 178.
Servatius, Fred H., Rockford, Ill. Wrench. No. 982,886; Jan. 31; Sp. p. 5955; Gaz. vol. 162; p. 1044.
Seryanivich, Frank, *et al.* (See Gale, George C., assignor.)
Sessa, Joseph. (See Jadronja, Mark G., assignor.)
Sessions, Edson O., assignor of one-half to F. Woodmansee, Chicago, Ill. Insulator-support. No. 1,012,724; Dec. 26; Sp. p. 5159; Gaz. vol. 173; p. 924.
Sessions, Frank L., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Separator for storage-battery plates. No. 990,069; Apr. 18; Sp. p. 3794; Gaz. vol. 165; p. 657.
Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Controller for electrical apparatus. No. 1,004,089; Sept. 26; Sp. p. 4221; Gaz. vol. 170; p. 753.
Sessions, Frank L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Brush-holder for motors or generators. No. 1,004,479; Sept. 26; Sp. p. 5033; Gaz. vol. 170; p. 886.
Setchell, George C., Edgewood, assignor to F. E. Chester, Providence, R. I. Archer's bow. No. 982,748; Jan. 24; Sp. p. 5638; Gaz. vol. 162; p. 967.
Seton, Ernest T., Coscob, Conn. Steelyard. No. 1,000,201; Aug. 8; Sp. p. 2093; Gaz. vol. 169; p. 373.
Seuss, Anton, Pittsburgh, Pa. Headlight for vehicles. No. 1,010,965; Dec. 5; Sp. p. 1248; Gaz. vol. 173; p. 198.
Severe, Emogene W., Sioux City, Iowa. Form for measuring dress-skirts. No. 1,000,698; Aug. 15; Sp. p. 3209; Gaz. vol. 169; p. 580.
Severin, Gustav R., Milwaukee, Wis. Valve. No. 1,010,811; Dec. 5; Sp. p. 909; Gaz. vol. 173; p. 143.
Severin, Heinrich, Sasbach, near Achern, Germany. Device for extracting measured quantities of glass from smelting-furnaces. No. 984,974; Feb. 21; Sp. p. 3685; Gaz. vol. 163; p. 651.
Severson, Edwin, Liberty, N. D. Rake attachment for mowing-machines. No. 1,001,777; Aug. 29; Sp. p. 5505; Gaz. vol. 169; p. 1011.
Severson, Myron L., assignor of one-half to W. S. Speigelberg, Passaic, N. J. Search-light. No. 1,012,457; Dec. 19; Sp. p. 4577; Gaz. vol. 173; p. 784.
Severson, Steven, Republic, Wash. Sled brake and guide. No. 987,681; Mar. 21; Sp. p. 4055; Gaz. vol. 164; p. 718.
Severy, Melvin L., Arlington Heights, and G. B. Sinclair, Medford, Mass. Producing musical tones. No. 1,009,798; Nov. 28; Sp. p. 4794; Gaz. vol. 172; p. 868.
Sevin, Philip E., and S. P. Roussel, Mathews, La. Canesling. No. 994,608; June 6; Sp. p. 1050; Gaz. vol. 167; p. 175.
Sewall, Minott W., Roselle, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y. Steam-boiler. No. 983,170; Jan. 31; Sp. p. 6541; Gaz. vol. 162; p. 1137.
Sewall, Minott W., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 986,089; Mar. 7; Sp. p. 710; Gaz. vol. 164; p. 114.
Sewall, Minott W., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler. No. 986,090; Mar. 7; Sp. p. 713; Gaz. vol. 164; p. 114.
Sewall, Minott W., Roselle, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-generating plant. No. 986,648; Mar. 14; Sp. p. 1897; Gaz. vol. 164; p. 335.
Sewall, Minott W., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-generating plant. No. 986,649; Mar. 14; Sp. p. 1901; Gaz. vol. 164; p. 336.
Sewall, Minott W., New York, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler-furnace. No. 1,007,805; Nov. 7; Sp. p. 353; Gaz. vol. 172; p. 56.
Sewall, Minott W., Roselle, and D. S. Jacobus, Jersey City, assignors to The Babcock and Wilcox Company, Bayonne, N. J. Water-tube boiler. No. 983,000; Jan. 31; Sp. p. 6201; Gaz. vol. 162; p. 1081.
Sewall, Minott W., New York, N. Y., and D. S. Jacobus, Jersey City, N. J., assignors to The Babcock & Wilcox Company, New York, N. Y. Water-tube boiler. No. 983,171; Jan. 31; Sp. p. 6543; Gaz. vol. 162; p. 1138.
Seward, Ernest R. (See Witherell and Seward.)
Seward, Franklin D., Rutherford, N. J., and G. W. Raymond, New York, N. Y. Rug and carpet holder. No. 985,295; Feb. 28; Sp. p. 4421; Gaz. vol. 163; p. 796.
Seward, Franklin D., Rutherford, N. J., and G. W. Raymond, New York, N. Y. Rug and carpet holder. No. 985,296; Feb. 28; Sp. p. 4422; Gaz. vol. 163; p. 796.
Seward, George O., East Orange, N. J., and F. von Kügelgen, Holcombs Rock, Va., assignors to Virginia Laboratory Company, New York, N. Y. Electrolytic cell. (Reissue.) No. 13,277; July 25; Sp. p. 5646; Gaz. vol. 168; p. 1006.
Seward, George O., and F. von Kügelgen, Holcombs Rock, Va., assignors to Virginia Laboratory Company, New York, N. Y. Electrolytic apparatus. No. 1,007,897; Nov. 7; Sp. p. 567; Gaz. vol. 172; p. 88.
Seward, Percy G., assignor to Seward Rubber Tire Company, Inc., Petersburg, Va. Vehicle-tire. No. 1,004,480; Sept. 26; Sp. p. 5036; Gaz. vol. 170; p. 886.
Seward, Percy G., assignor to Seward Rubber Tire Company, Inc., Petersburg, Va. Vehicle-tire. No. 1,004,481; Sept. 26; Sp. p. 5037; Gaz. vol. 170; p. 887.
Seward, Robert B., assignor, by mesne assignments, to Buttonholes, Incorporated, New York, N. Y. Buttonhole cutting and stitching attachment for sewing-machines. No. 990,601; Apr. 25; Sp. p. 5020; Gaz. vol. 165; p. 874.
Seward Rubber Tire Company. (See Seward, Percy G., assignor.)
Seward, Thomas J., assignor to The Electric Cable Company, Bridgeport, Conn. Machine for reeling rubber-covered electric wire for vulcanization. No. 1,008,993; Nov. 14; Sp. p. 3044; Gaz. vol. 172; p. 506.
Sewell, Theodore C., Portland, Oreg. Valve-gear. No. 983,843; Feb. 7; Sp. p. 1260; Gaz. vol. 163; p. 202.
Sewell, William N., Winchester, Ky. Match-safe. No. 1,004,090; Sept. 26; Sp. p. 4226; Gaz. vol. 170; p. 753.
Sexton, Isaac E., Boston, Mass. Can. No. 985,377; Feb. 28; Sp. p. 4584; Gaz. vol. 163; p. 822.
Sexton, Lowry, The Dalles, Oreg. Metal facing for bricks. No. 1,006,298; Oct. 17; Sp. p. 3820; Gaz. vol. 171; p. 669.
Sexton, Martin, Binghamton, N. Y. Jack-block and car-wheel clamp. No. 992,271; May 16; Sp. p. 3096; Gaz. vol. 166; p. 564.
Sexton, William A., Somerville, Mass. Dry-food hopper. No. 998,410; July 18; Sp. p. 3956; Gaz. vol. 168; p. 701.
Sexton, William A., Somerville, Mass. Poultry drinking-fountain. No. 1,005,659; Oct. 10; Sp. p. 2405; Gaz. vol. 171; p. 413.

Alphabetical list of patentees—Continued.

Sexton, William A., Medford, Mass. Sheet-metal can. No. 1,009,443; Nov. 21; Sp. p. 4083; Gaz. vol. 172; p. 704.
Seybold, Charles, Dayton, Ohio. Paper-cutting machine. No. 1,002,876; Sept. 12; Sp. p. 1559; Gaz. vol. 170; p. 271.
Seyerle, Frederick J. (See Moeller and Seyerle.)
Seyewetz, Alphonse, and L. Meunier, Lyon, France. Tanning. No. 987,750; Mar. 28; Sp. p. 4207; Gaz. vol. 164; p. 768.
Seyferth, Max, Crimmitschau, Germany. Floor-cleaning machine. No. 1,000,699; Aug. 15; Sp. p. 3210; Gaz. vol. 169; p. 580.
Seyfrit, Matthew. (See Phares, Mieher, and Seyfrit.)
Seyler, John F., and N. H. Dunkle, Lock Haven, Pa. Cellar-door. No. 1,009,104; Nov. 21; Sp. p. 3290; Gaz. vol. 172; p. 582.
Seymour, Benjamin F., Denver, Colo. Heating system. No. 1,003,523; Sept. 19; Sp. p. 2897; Gaz. vol. 170; p. 530.
Seymour, Daniel J., assignor of one-half to J. T. Cuddy, Providence, R. I. Gravity-level. No. 995,099; June 13; Sp. p. 2203; Gaz. vol. 167; p. 383.
Seymour, Ralph C., Larchmont, N. Y., assignor to Goss Printing Press Company, Chicago, Ill. Associating and binding machine. No. 1,011,864; Dec. 12; Sp. p. 3284; Gaz. vol. 173; p. 546.
Shaaber, Harry C., Reading, Pa., and W. M. Acker, New York, N. Y., assignors to Chantrell Hardware & Tool Co., Reading, Pa. Locking-bolt. No. 998,860; July 25; Sp. p. 4951; Gaz. vol. 168; p. 890.
Shackelford, Jouel M., and T. Alexander, Ashland, Ky. Artificial hand. No. 1,004,482; Sept. 26; Sp. p. 5038; Gaz. vol. 170; p. 887.
Shackleton, Alfred, Chicago, Ill. Protective measuring and display strip for ribbons and fabrics. No. 1,009,799; Nov. 28; Sp. p. 4796; Gaz. vol. 172; p. 868.
Shadall, Charles E., Milwaukee, assignor of one-fourth to F. L. Horneffer and one-fourth to F. H. Durbin, Wauwatosa, Wis. Ventilating apparatus for closet-fixtures. No. 1,004,917; Oct. 3; Sp. p. 808; Gaz. vol. 171; p. 130.
Shadall, Charles E., Milwaukee, assigner of one-fourth to F. L. Horneffer and one-fourth to F. H. Durbin, Wauwatosa, Wis. Motor and compressor. No. 1,012,725; Dec. 26; Sp. p. 5161; Gaz. vol. 173; p. 924.
Shadell, Fred E., and F. W. Cassidy, Philadelphia, Pa. Adjustable crutch. No. 987,497; Mar. 21; Sp. p. 3666; Gaz. vol. 164; p. 654.
Shaeffer, Charles D., assignor to The Round Crest Orchard Heater Company, Canon City, Colo. Orchard-heater. No. 1,010,323; Nov. 28; Sp. p. 5857; Gaz. vol. 172; p. 1043.
Shaen, Michael. (See Elliott and Shaen.)
Shafer, Frank B., assignor of one-third to J. A. Dubuar and one-third to W. G. Yerkes, Northville, Mich. Vacuum-sweeper. No. 983,574; Feb. 7; Sp. p. 697; Gaz. vol. 163; p. 108.
Shafer, John P., assignor of one-half to P. C. Ullmen, Niagara, Wis. Pen and pencil holder. No. 997,097; July 4; Sp. p. 1061; Gaz. vol. 168; p. 171.
Shafer, Samuel E., Elkhart county, Ind. Hay-rack. No. 1,003,010; Sept. 12; Sp. p. 1836; Gaz. vol. 170; p. 318.
Shaffer, Charles E., Morrill, Nebr. Wind-motor. No. 1,003,661; Sept. 19; Sp. p. 3212; Gaz. vol. 170; p. 579.
Shaffer, Dallas A. (See Vaughn, De Will G., assignor.)
Shaffer, Daniel, Middletown, N. Y. Wall-paper-display frame. No. 1,012,170; Dec. 19; Sp. p. 3991; Gaz. vol. 173; p. 688.
Shaffer, Frank, Moclips, Wash. Machine for cleaning clams and other fish. No. 1,011,378; Dec. 12; Sp. p. 2205; Gaz. vol. 173; p. 376.
Shaffer, Knuland, trustee. (See Dunning, Robert A., assignor.)
Shaffner, Samuel C., Chicago, Ill., assignor to C. M. Patterson, White Plains, N. Y. Means for recording meter-readings. (Reissue.) No. 13,224; Apr. 4; Sp. p. 1398; Gaz. vol. 165; p. 225.
Shailer, George W., Palmerston North, assignor of one-half to C. Collis, Longburn, D. and J. Collis, Kairanga, New Zealand. Lid for milk-jugs and the like. No. 999,887; Aug. 8; Sp. p. 1398; Gaz. vol. 169; p. 266.
Shailer, Percy H., Auckland, New Zealand. Automatic coupling. No. 984,609; Feb. 21; Sp. p. 2957; Gaz. vol. 163; p. 525.
Shailor, Frank E. (See Kuhn and Shailor.)
Shailor, Frank E., and O. D. Storer, Pittsfield, Mass., assignors to General Electric Company. Fluid-receptacle. No. 1,006,692; Oct. 24; Sp. p. 4699; Gaz. vol. 171; p. 836.
Shain, Charles D., Rockaway Park, N. Y. Carbureter for gas-engines. No. 1,004,091; Sept. 26; Sp. p. 4227; Gaz. vol. 170; p. 754.
Shainline, Joseph B., Norristown, Pa. Flying-machine. No. 983,940; Feb. 14; Sp. p. 1493; Gaz. vol. 163; p. 263.
Shainsey, Frederick J., Sr., Dayton, Ohio, assignor, by mesne assignments, to Krentler-Arnold Hinge Last Company, Detroit, Mich. Collapsible last-block. No. 1,006,137; Oct. 17; Sp. p. 3442; Gaz. vol. 171; p. 611.
Shakespeare, William, Jr., assignor to William Shakespeare, Jr., Company, Kalamazoo, Mich. Fishing-reel. No. 982,305; Jan. 24; Sp. p. 4725; Gaz. vol. 162; p. 817.
Shakley, Samuel D., Pittsburg, Pa., assignor of one-half to F. C. Hockett, Cleveland, Ohio. Explosive-engine. No. 994,541; June 6; Sp. p. 915; Gaz. vol. 167; p. 151.
Shallcross, Leonard, assignor to Henry Disston & Sons, Philadelphia, Pa. Crosscut-saw handle. No. 984,975; Feb. 21; Sp. p. 3688; Gaz. vol. 163; p. 651.
Shallenberger, Charles S., and P. J. Howard, assignors to Scullin-Gallagher Iron & Steel Company, St. Louis, Mo. Side sill for draft-rigging. No. 997,421; July 11; Sp. p. 1712; Gaz. vol. 168; p. 311.
Shanahan, John W., and W. E. Gill, assignors to Bissel Carpet Sweeper Co., Grand Rapids, Mich. Carpet-sweeper. No. 1,012,726; Dec. 26; Sp. p. 5163; Gaz. vol. 173; p. 925.
Shand, Graham E., *et al.* (See McGee, Arthur C., assignor.)
Shand, Robert. (See Thomson and Shand.)
Shaner, Arthur E., Louisville, Ky. Sliding door for show-cases. No. 981,486; Jan. 10; Sp. p. 2980; Gaz. vol. 162; p. 484.
Shank, Augustus W., assignor of five-sixteenths to A. P. Mott and five-sixteenths to W. W. Tackabury, Detroit, Mich. Cushion-tire. No. 987,751; Mar. 28; Sp. p. 4210; Gaz. vol. 164; p. 768.
Shank, Augustus W., assignor of one-fourth to H. E. Hansen, one-eighth to C. Rupp, and one-fourth to W. W. Tackabury, Detroit, Mich. Potato-bug collector. No. 1,001,998; Aug. 29; Sp. p. 6001; Gaz. vol. 169; p. 1086.
Shank, George W., Moncure, N. C. Reversing valve-gear for engines. No. 1,013,076; Dec. 26; Sp. p. 5961; Gaz. vol. 173; p. 1043.
Shank, William H., Fairfax, Iowa. Agricultural implement. No. 1,007,245; Oct. 31; Sp. p. 5941; Gaz. vol. 171; p. 1084.
Shankland, William H., St. Johns, Oreg. Pneumatic suspension for vehicles. No. 982,190; Jan. 17; Sp. p. 4452; Gaz. vol. 162; p. 746.
Shanklin, Edwin S., Oakland, Cal. Resilient wheel. No. 986,948; Mar. 14, Sp. p. 2524; Gaz. vol. 164; p. 436.
Shanklin, George R. (See Brewbaker and Shanklin.)
Shanley, Henry R. (See Sturgeon and Shanley.)
Shanley, Michael H., Granbury, Tex. Car-ventilating system. No. 984,035; Feb. 14; Sp. p. 1713; Gaz. vol. 163; p. 295.
Shannon, Frank P., assignor of one-half to W. J. Freeland, Pittsburg, Pa. Nut-lock. No. 985,764; Feb. 28; Sp. p. 5457; Gaz. vol. 163; p. 957.
Shannon, George H., Cambridge, N. Y. Dental matrix-clip. No. 983,844; Feb. 7; Sp. p. 1262; Gaz. vol. 163; p. 202.
Shannon, Howard W., *et al.* (See Mason, Arthur, assignor.)
Shannon, John J. (See Dovel, James P., assignor.)
Shannon, Livingston L., Roanoke, La. Clod-crusher. No. 1,000,557; Aug. 15; Sp. p. 2881; Gaz. vol. 169; p. 529.
Shannon, Oscar M., New Rochelle, N. Y. Garbage-crematory. No. 981,228; Jan. 10; Sp. p. 2434; Gaz. vol. 162; p. 394.
Shannon, Oscar M., New Rochelle, N. Y. Drier-cabinet. No. 1,010,694; Dec. 5; Sp. p. 645; Gaz. vol. 173; p. 103.
Shannon, Peter, Chicago, Ill. Street-washing apparatus. No. 1,000,203; Aug. 8; Sp. p. 2098; Gaz. vol. 169; p. 374.
Shannon, William P. (See Shepherd, Stanley, assignor.)
Shanton, Ira A., St. Petersburg, Fla. Spring-motor. No. 996,147; June 27; Sp. p. 4455; Gaz. vol. 167; p. 806.
Shapera, Charles M. (See Shapera, Morris L. and C. M.)
Shapera, Morris L. and C. M., Chicago, Ill. Cloth-piling machine. No. 1,002,459; Sept. 5; Sp. p. 635; Gaz. vol. 170; p. 91.
Shapiro, Aaron S., Chicago, Ill. Extension-table. No. 984,244; Feb. 14; Sp. p. 2159; Gaz. vol. 163; p. 366.
Shapiro, Maurice I., Haverstraw, N. Y. Garment-pocket. No. 999,888; Aug. 8; Sp. p. 1399; Gaz. vol. 169; p. 266.
Shapiro, Samuel, Philadelphia, Pa. Milk-can and cover therefor. No. 991,757; May 9; Sp. p. 1991; Gaz. vol. 166; p. 358.
Shapiro, Samuel, Philadelphia, Pa. Milk-cooler. No. 995,727; June 20; Sp. p. 3558; Gaz. vol. 167; p. 626.
Shapro, Royal P., San Francisco, Cal., assignor to Nuway Reporters' Note Book Company. Note-book cover and holder. No. 987,019; Mar. 14; Sp. p. 2647; Gaz. vol. 164; p. 457.
Sharick, Justice W., Frankfort, Ind. Pressed-steel wheel. No. 996,945; July 4; Sp. p. 722; Gaz. vol. 168; p. 118.
Sharkey, Albert G., New York, N. Y. Car for roller-coasters. (Reissue.) No. 13,271; July 11; Sp. p. 2901; Gaz. vol. 168; p 496.
Sharp, Andrew. (See Bennett and Sharp.)
Sharp, Alonzo G., and W. A. Pease, assignors to The E. M. Hulse Company, Columbus, Ohio. Sofa or davenport bed. No. 1,009,444; Nov. 21; Sp. p. 4085; Gaz. vol. 172; p. 704.
Sharp, Charles S., Auburn, N. Y., assignor to International Harvester Company. Disk harrow. No. 1,007,496; Oct. 31; Sp. p. 6475; Gaz. vol. 171; p. 1171.
Sharp, Charles S., Auburn, N. Y., assignor to International Harvester Company. Disk harrow. No. 1,007,982; Nov. 7; Sp. p. 738; Gaz. vol. 172; p. 116.
Sharp, Clayton H., White Plains, N. Y. Glow-lamp support and reflector. No. 991,031; May 2; Sp. p. 426; Gaz. vol. 166; p. 73.

Alphabetical list of patentees—Continued.

Sharp, Craven, assignor of one-half to Goodall Worsted Company, Sanford, Me. Feed-regulating device for combing-machines. No. 1,004,092; Sept. 26; Sp. p. 4228; Gaz. vol. 170; p. 754.
Sharp, Jacob, Philadelphia, Pa. Driven-well spear or point. No. 1,012,727; Dec. 26; Sp. p. 5164; Gaz. vol. 173; p. 925.
Sharp, James A., Springfield, Ohio, assignor to International Harvester Company. Grain-harvester. No. 1,002,209; Aug. 29; Sp. p. 6407; Gaz. vol. 169; p. 1155.
Sharp, James A., Springfield, Ohio, assignor to International Harvester Company. Motor attachment for harvesters. No. 1,007,246; Oct. 31; Sp. p. 5942; Gaz. vol. 171; p. 1084.
Sharp, James A., Springfield, Ohio, assignor to International Harvester Company. Reversible fork for hay-tedders. No. 1,009,105; Nov. 21; Sp. p. 3292; Gaz. vol. 172; p. 582.
Sharp, John, Beaumont, Tex. Spring-wheel. No. 988,952; Apr. 4; Sp. p. 1380; Gaz. vol. 165; p. 222.
Sharp, John E. (See Bennett and Sharp.)
Sharp, John E. (See Weldon, Thomas J., assignor.)
Sharp, Joseph W., Jr., Philadelphia, Pa. Lavatory. No. 989,816; Apr. 18; Sp. p. 3277; Gaz. vol. 165; p. 572.
Sharp, Lee C., Plattsmouth, Nebr. Apparatus for seaming the heads upon cans. No. 983,001; Jan. 31; Sp. p. 6204; Gaz. vol. 162; p. 1082.
Sharp, Lee C., Plattsmouth, Nebr. Can flanging and heading machine. No. 983,002; Jan. 31; Sp. p. 6206; Gaz. vol. 162; p. 1083.
Sharp, Lee C., Plattsmouth, Nebr., assignor to F. Brückmann, Jr., Brunswick, Germany. Means for capping and performing other operations on cans. No. 996,531; June 27; Sp. p. 5345; Gaz. vol. 167; p. 935.
Sharp, Lee C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Machine for lining can-covers. No. 1,004,699; Oct. 3; Sp. p. 316; Gaz. vol. 171; p. 55.
Sharp, Lewis B., Far Rockaway, N. Y. Automobile-axle. No. 1,001,697; Aug. 29; Sp. p. 5333; Gaz. vol. 169; p. 985.
Sharp, Richard J., and M. Quelch, Brighton, England. Means for automatically indicating the approximate number of words and other characters written by typewriting machines. No. 988,037; Mar. 28; Sp. p. 4883; Gaz. vol. 164; p. 868.
Sharp & Sharp *et al.* (See Morris, George A., assignor.)
Sharp & Smith. (See Pasley, Ira, assignor.)
Sharp, Thaddeus M., Tarkio, Mo. Collapsible hen's nest. No. 990,014; Apr. 18; Sp. p. 3692; Gaz. vol. 165; p. 640.
Sharp, William E., Chicago, assignor of one-half to G. B. Robbins, Hinsdale, Ill. Fastening device. No. 1,003,662; Sept. 19; Sp. p. 3213; Gaz. vol. 170; p. 579.
Sharples, David T., West Chester, Pa. Milking. No. 992,072; May 9; Sp. p. 2611; Gaz. vol. 166; p. 464.
Sharples, David T., West Chester, Pa. Milking apparatus. No. 994,956; June 13; Sp. p. 1903; Gaz. vol. 167; p. 334.
Sharrock, Charles W., Dorincourt, Grays, England. Barrel-trussing and hoop-driving machine. No. 982,749; Jan. 24; Sp. p. 5639; Gaz. vol. 162; p. 967.
Sharrow, Clark W., assignor to E. F. Sharrow, Philadelphia, Pa. Hair-cutting gage. No. 1,013,077; Dec. 26; Sp. p. 5962; Gaz. vol. 173; p. 1044.
Sharrow, Ella F. (See Sharrow, Clark W., assignor.)
Shartle Brothers Machine Company. (See Shartle, Charles W., assignor.)
Shartle, Charles W., Middletown, Ohio. Pulp-reducing apparatus. No. 989,879; Apr. 18; Sp. p. 3399; Gaz. vol. 165; p. 593.
Shartle, Charles W., assignor to The Shartle Brothers Machine Company, Middletown, Ohio. Pulp-reducing apparatus. No. 1,011,255; Dec. 12; Sp. p. 1932; Gaz. vol. 173; p. 333.
Shattuck Adding Machine Company. (See Shuttuck, William P., assignor.)
Shattuck, Burt E., assignor to Dow Surgical Battery Company, Boston, Mass. Mixing-agitator. No. 1,004,209; Sept. 26; Sp. p. 4487; Gaz. vol. 170; p. 794.
Shattuck, William P., assignor to Shattuck Adding Machine Company, Minneapolis, Minn. Adding and listing machine. No. 1,007,740; Nov. 7; Sp. p. 184; Gaz. vol. 172; p. 31.
Shaveland, John E. (See Bashore and Shaveland.)
Shaver, Alfred, Huntsville, Ala. Trolley-head. No. 986,027; Mar. 7; Sp. p. 587; Gaz. vol. 164; p. 94.
Shaver, Forrest W., Swissvale, Pa. Sad-iron. No. 1,006,299; Oct. 17; Sp. p. 3821; Gaz. vol. 171; p. 669.
Shaver, George F., New York, N. Y., assignor to Hygienic Soap Granulator Company. Soap-shaving device. No. 983,316; Feb. 7; Sp. p. 125; Gaz. vol. 163; p. 23.
Shaver, George F., New York, N. Y., assignor to Hygienic Soap Granulator Company. Soap-shaving device. No. 983,317; Feb. 7; Sp. p. 129; Gaz. vol. 163; p. 23.
Shaver, George F., New York, N. Y., assignor to Hygienic Soap Granulator Company. Soap-dispensing machine. No. 983,318; Feb. 7; Sp. p. 131; Gaz. vol. 163; p. 24.
Shaver, George F., New York, N. Y., assignor to Hygienic Soap Granulator Company. Soap-dispensing machine. No. 983,779; Feb. 7; Sp. p. 1114; Gaz. vol. 163; p. 178.
Shaver, James E., Jr., assignor to Underwood Typewriter Company, New York, N. Y. Stenciling-machine. No. 985,297; Feb. 28; Sp. p. 4423; Gaz. vol. 163; p. 796.
Shaw, Amos, Livingston, Mont. Stanchion. No. 989,434; Apr. 11; Sp. p. 2421; Gaz. vol. 165; p. 408.
Shaw, Bruce A., Davenport, Iowa. Attachment for animal-traps. No. 985,555; Feb. 28; Sp. p. 5005; Gaz. vol. 163; p. 886.
Shaw, Charles, *et al.* (See Inshaw, John G. and G. R., assignors.)
Shaw, Charles H., Denver, Colo. Automatic tool-oiler. No. 1,006,300; Oct. 17; Sp. p. 3822; Gaz. vol. 171; p. 669.
Shaw, Charles H., Milwaukee, Wis., assignor to Standard Separator Company. Separator-disk rack. No. 996,150; June 27; Sp. p. 4461; Gaz. vol. 167; p. 807.
Shaw, Charles W., *et al.* (See Hutson, William A., assignor.)
Shaw, Clarence, Susanville, Cal. Cutting-machine. No. 1,000,301; Aug. 8; Sp. p. 2298; Gaz. vol. 169; p. 407.
Shaw, Claude. (See Talbert, Shaw, Holcomb, and Hoke.)
Shaw, Edwin C., assignor, by mesne assignments, to The United Rim Company, Akron, Ohio. Vehicle wheel-rim. No. 1,009,347; Nov. 21; Sp. p. 3842; Gaz. vol. 172; p. 669.
Shaw, Edwin C., assignor, by mesne assignments, to The United Rim Company, Akron, Ohio. Vehicle wheel-rim. No. 1,009,445; Nov. 21; Sp. p. 4086; Gaz. vol. 172; p. 704.
Shaw, Edwin E., Ithaca, Mich. Beet-harvester. (Reissue.) No. 13,215; Mar. 7; Sp. p. 1410; Gaz. vol. 164; p. 227.
Shaw, Emmerson N., San Francisco, Cal. Oil-burner. No. 1,008,866; Nov. 14; Sp. p. 2767; Gaz. vol. 172; p. 466.
Shaw, Ernest C., assignor to Allis-Chalmers Company, Milwaukee, Wis. Disk oiler. No. 1,000,349; Aug. 8; Sp. p. 2403; Gaz. vol. 169; p. 423.
Shaw, George W., Buffalo, N. Y. Air-supplying device for firemen. No. 989,880; Apr. 18; Sp. p. 3401; Gaz. vol. 165; p. 593.
Shaw, Harry B., Takoma Park, D. C. Camera-support. No. 1,006,693; Oct. 24; Sp. p. 4700; Gaz. vol. 171; p. 837.
Shaw, Henry C., Glenshaw, assignor to A. Garrison Foundry Company, Pittsburgh, Pa. Mechanical movement. No. 1,004,918; Oct. 3; Sp. p. 810; Gaz. vol. 171; p. 130.
Shaw, Herbert C., assignor to Bauer & Black, Chicago, Ill. Elastic-warp-knitting machine. No. 1,009,446; Nov. 21; Sp. p. 4089; Gaz. vol. 172; p. 705.
Shaw, James, Atchison, Cal. Internal-combustion engine. No. 1,003,127; Sept. 12; Sp. p. 2078; Gaz. vol. 170; p. 358.
Shaw, James G. (See Weber, Frederick C., assignor.)
Shaw, John H. (See Sparks and Shaw.)
Shaw, John W., assignor of one-half to W. McIntosh, Plainfield, N. J. Hose-pipe. No. 989,304; Apr. 11; Sp. p. 2143; Gaz. vol. 165; p. 366.
Shaw, Linus H., Brockton, Mass. Rand. No. 990,396; Apr. 25; Sp. p. 4555; Gaz. vol. 165; p. 804.
Shaw, Louis E., assignor to J. B. Colt Company, New York, N. Y. Feeding device. No. 991,758; May 9; Sp. p. 1992; Gaz. vol. 166; p. 358.
Shaw, Louis E., assignor to The J. B. Colt Company, New York, N. Y. Burner. No. 991,759; May 9; Sp. p. 1994; Gaz. vol. 166; p. 359.
Shaw, Orpheus C., Spokane, Wash. Threshing-machine cylinder. No. 1,011,379; Dec. 12; Sp. p. 2206; Gaz. vol. 173; p. 376.
Shaw, Ryland B., Decatur, Ill. Extension-ladder. No. 992,915; May 23; Sp. p. 4474; Gaz. vol. 166; p. 820.
Shaw, Theodore B., Bellevue, Wash. Feed-rack. No. 988,599; Apr. 4; Sp. p. 667; Gaz. vol. 165; p. 107.
Shaw, Thomas. (See Campbell and Shaw.)
Shaw, Thomas, Hackensack, N. J., assignor to American Telephone and Telegraph Company. Phantomed loaded circuit. No. 981,015; Jan. 10; Sp. p. 1931; Gaz. vol. 162; p. 319.
Shaw, Thos. J. (See Steinl, George, assignor.)
Shaw, Walter, Boston, Mass. Pulling-over machine for boots and shoes. No. 999,889; Aug. 8; Sp. p. 1400; Gaz. vol. 169; p. 266.
Shaw, Walter, Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Eyeleting-machine. No. 1,006,011; Oct. 17; Sp. p. 3157; Gaz. vol. 171; p. 567.
Shaw, William, and N. F. Kepple, assignors of one-third to N. P. Duvally, Fall River, Mass. Differential motion for fly-frames. No. 994,692; June 6; Sp. p. 1259; Gaz. vol. 167; p. 204.
Shaw, William H., *et al.* (See Farley, Alfred C., assignor.)
Shaw, William W., and W. M. Holmes, Hoosick Falls, N. Y. Hay-tedder fork. No. 986,511; Mar. 14; Sp. p. 1602; Gaz. vol. 164; p. 285.
Shawinigan Carbide Company Limited, The. (See Gibbs and Witherspoon, assignors.)
Shawmut Machinery Company. (See Buck, Vertrude P., assignor.)
Shawmut Tire Company. (See Greene, George W., assignor.)

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Shay, Frank, Newark, N. J. Poultry-perch. No. 984,036; Feb. 14; Sp. p. 1714; Gaz. vol. 163; p. 295.
Shea, John F., Philadelphia, Pa. Vacuum-cleaner. No. 985,945; Mar. 7; Sp. p. 404; Gaz. vol. 164; p. 64.
Shea, John F., Tampa, Fla. Means for indicating and raising sunken boats. No. 993,205; May 23; Sp. p. 5090; Gaz. vol. 166; p. 918.
Shea, John F., Tampa, Fla. Signaling apparatus for submarine boats. No. 1,009,800; Nov. 28; Sp. p. 4797; Gaz. vol. 172; p. 868.
Shea, Michael C., Mishawaka, Ind. Wheel-hub. No. 987,090; Mar. 14; Sp. p. 2774; Gaz. vol. 164; p. 480.
Shea, Michael F., Newport, R. I. Game apparatus. No. 998,411; July 18; Sp. p. 3958; Gaz. vol. 168; p. 701.
Shea, Thomas A., Hammond, Ind. End plate for springs. No. 993,114; May 23; Sp. p. 4916; Gaz. vol. 166; p. 890.
Shea, Thomas J., Portland, Oreg. Driving mechanism. No. 1,009,188; Nov. 21; Sp. p. 3456; Gaz. vol. 172; p. 611.
Shea, Timothy H., Springfield Mass. Oar. No. 1,003,069; Sept. 12; Sp. p. 1946; Gaz. vol. 170; p. 337.
Shea, Timothy J., and R. Hames, Shelton, Conn. Combination bed and parlor suit. No. 988,513; Apr. 4; Sp. p. 472; Gaz. vol. 165; p. 76.
Shean, Frank W., San Francisco, Cal. Transfer-ticket. No. 995,917; June 20; Sp. p. 3981; Gaz. vol. 167; p. 692.
Shean, Thomas P., Chicago, Ill. Fireproof door. No. 992,812; May 23; Sp. p. 4240; Gaz. vol. 166; p. 782.
Shean, Thomas P., Chicago, Ill. Metal window-frame. No. 996,946; July 4; Sp. p. 723; Gaz. vol. 168; p. 118.
Shean, Thomas P., Chicago, Ill. Door-locking mechanism. No. 998,642; July 25; Sp. p. 4446; Gaz. vol. 168; p. 813.
Shearer, Edward J., and A. A. Gervais, Lordsburg, N. Mex. Check-valve for boilers. No. 997,862; July 11; Sp. p. 2702; Gaz. vol. 168; p. 463.
Shearer, Jesse A. (See Mayer, Peter, assignor.)
Sheatzley, John W., Detroit, Mich. Railway-tie and fastener. No. 1,001,999; Aug. 29; Sp. p. 6003; Gaz. vol. 169; p. 1086.
Shebol, Joseph, and W. F. Albrecht, Syracuse, N. Y. Fluid-pressure gage. No. 1,002,877; Sept. 12; Sp. p. 1563; Gaz. vol. 170; p. 272.
Sheda, Edward J. (See Lutz and Sheda.)
Shedd, Harry M., Roselle, N. J., assignor to Westinghouse Electric & Manufacturing Company. Oscillating motor-driven fan. No. 999,890; Aug. 8; Sp. p. 1405; Gaz. vol. 169; p. 267.
Shedlock, Alfred, Cannon Station, Conn. Door-fastener. No. 991,551; May 9; Sp. p. 1560; Gaz. vol. 166; p. 288.
Shedlock, James J., Little Bentley, England. Briquet-press. No. 1,000,204; Aug. 8; Sp. p. 2102; Gaz. vol. 169; p. 374.
Shee, Frederick W., Lancaster, assignor of one-half to R. P. Wilton, Wrightsville, Pa. Receptacle for holding and dispensing articles. No. 1,008,867; Nov. 14; Sp. p. 2768; Gaz. vol. 172; p. 466.
Shee, Parke E., Lancaster, assignor of one-half to R. P. Wilton, Wrightsville, Pa. Clip. No. 1,005,895; Oct. 17; Sp. p. 2903; Gaz. vol. 171; p. 527.
Sheedy, Patrick, *et al.* (See Neville, Harry, assignor.)
Sheefel, Jacob E., Payne, Ohio. Plow attachment. No. 1,000,849; Aug. 15; Sp. p. 3517; Gaz. vol. 169; p. 633.
Sheehan, Edward J., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 981,016; Jan. 10; Sp. p. 1933; Gaz. vol. 162; p. 320.
Sheehan, John P., J. J. Murray, and A. Booth, Pittsburg, Pa. Combined saddle and expansion-joint. No. 998,926; July 25; Sp. p. 5095; Gaz. vol. 168; p. 914.
Sheehan, Owen, New Bedford, assignor to The Hollingsworth and Vose Company, Boston, Mass. Fiber-decorticating machine. No. 1,009,589; Nov. 21; Sp. p. 4366; Gaz. vol. 172; p. 752.
Sheehan, Patrick, New York, N. Y. Safety-guide. No. 1,001,898; Aug. 29; Sp. p. 5782; Gaz. vol. 169; p. 1054.
Sheehan, Thomas C., Jersey City, N. J., assignor to Durham Duplex Razor Company, New York, N. Y. Razor. No. 1,007,898; Nov. 7; Sp. p. 569; Gaz. vol. 172; p. 88.
Sheehan, Thomas C., Jersey City, N. J., assignor to Durham Duplex Razor Company, New York, N. Y. Razor. No. 1,012,728; Dec. 26; Sp. p. 5165; Gaz. vol. 173; p. 925.
Sheehan, Thomas J., Chicago, Ill. Railway. No. 988,901; Apr. 4; Sp. p. 1276; Gaz. vol. 165; p. 205.
Sheehy, Harry W., Akron, Ohio. Can-opener. No. 986,319; Mar. 7; Sp. p. 1171; Gaz. vol. 164; p. 189.
Sheehy, Harry W., Akron, Ohio. Electromagnetic switch. No. 1,001,313; Aug. 22; Sp. p. 4556; Gaz. vol. 169; p. 824.
Sheer, Henry M., Quincy, Ill. Cooker. No. 1,005,660; Oct. 10; Sp. p. 2408; Gaz. vol. 171; p. 414.
Sheets, James W., Jr. (See Dudley, George W., assignor.)
Sheets, Jesse T., Covington, Ky. Means for supporting stretchers in ambulances. No. 986,650; Mar. 14; Sp. p. 1903; Gaz. vol. 164; p. 336.
Sheets, John H., New York, N. Y. Syringe. No. 984,037; Feb. 14; Sp. p. 1717; Gaz. vol. 163; p. 296.
Sheets, Joseph L. (See Eagon, Harvey M., assignor.)
Sheets, Thomas M., Lexington, N. C. Pump-base. No. 990,397; Apr. 25; Sp. p. 4556; Gaz. vol. 165; p. 804.
Sheetz, Albert, Bisbee, Ariz. Seed-planter. No. 1,006,984; Oct. 24; Sp. p. 5347; Gaz. vol. 171; p. 938.
Sheetz, Asa A., Woodstock, Va. Adjustable ladder. No. 983,172; Jan. 31; Sp. p. 6545; Gaz. vol. 162; p. 1138.
Sheetz, Edwin R., assignor of one-half to R. M. Wiggins, Trenton, Mo. Collapsible water-crane. No. 1,008,675; Nov. 14; Sp. p. 2377; Gaz. vol. 172; p. 401.
Sheff, Andrew J. (See Kreimendahl and Sheff.)
Sheffield Car Company. (See Card, John F., assignor.)
Sheffield Car Company. (See Hovey and Stebbins, assignors.)
Sheffield Car Company, The. (See Mahana, Hovey, and Stebbins, assignors.)
Sheffield Dentifrice Company, The. (See Ames, William A., assignor.)
Sheinman, Morris, New York, N. Y. Alarm-lock. No. 994,542; June 6; Sp. p. 918; Gaz. vol. 167; p. 152.
Shelburne, John W., New London, Mo. Driving-gearing for traction-engines. No. 987,020; Mar. 14; Sp. p. 2648; Gaz. vol. 164; p. 458.
Shelby, Evan S., La Fayette, Ind. Automatic cistern cut-off. No. 1,006,138; Oct. 17; Sp. p. 3445; Gaz. vol. 171; p. 612.
Shelby Printing Company, The. (See Gauch, Orlando S., assignor.)
Shelby Steel Tube Company, The. (See Dunn, Jerry J., assignor.)
Shelby Steel Tube Company, The. (See Stiefel, Ralph C., assignor.)
Sheldon, Edward P., Brooklyn, N. Y. Machine for banding cigars. No. 981,017; Jan. 10; Sp. p. 1934; Gaz. vol. 162; p. 320.
Sheldon, Edward P., assignor, by mesne assignments, to R. Hoe and Co., New York, N. Y. Stapling mechanism. No. 985,461; Feb. 28; Sp. p. 4797; Gaz. vol. 163; p. 852.
Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Machine for assembling printed products. No. 1,008,567; Nov. 14; Sp. p. 2126; Gaz. vol. 172; p. 363.
Sheldon, Edward P., assignor to R. Hoe and Co., New York, N. Y. Machine for assembling printed products. No. 1,008,568; Nov. 14; Sp. p. 2131; Gaz. vol. 172; p. 364.
Sheldon, Forrest R., New Haven, Conn. Automatic coupling for signal, air, and steam between cars. No. 990,070; Apr. 18; Sp. p. 3795; Gaz. vol. 165; p. 657.
Sheldon, James H., Spokane, Wash. Refillable brake-block. No. 997,863; July 11; Sp. p. 2704; Gaz. vol. 168; p. 464.
Sheldon, John T., Fernhill, New South Wales, Australia. Stop-valve and tap. No. 1,002,000; Aug. 29; Sp. p. 6005; Gaz. vol. 169; p. 1086.
Sheldon, Samuel, Paterson, N. J. Railway-brake. No. 994,340; June 6; Sp. p. 489; Gaz. vol. 167; p. 84.
Sheldon, Samuel B., South Bethlehem, Pa. Gas-producer. No. 1,003,524; Sept. 19; Sp. p. 2899; Gaz. vol. 170; p. 530.
Sheldon, Samuel B., Bethlehem, Pa., assignor to Lackawanna Steel Company, New York, N. Y. Steel piling-section. No. 981,018; Jan. 10; Sp. p. 1945; Gaz. vol. 162; p. 320.
Sheldon, William J., assignor of one-fourth to H. R. Greenlee, Youngstown, Ohio. Rail-joint. No. 1,005,579; Oct. 10; Sp. p. 2234; Gaz. vol. 171; p. 385.
Sheldon, William J., assignor of one-fourth to H. R. Greenlee, Youngstown, Ohio. Metallic tie and rail-fastener. No. 1,008,868; Nov. 14; Sp. p. 2770; Gaz. vol. 172; p. 466.
Shelley, Edwin M., Parke, Pa. Water-motor. No. 993,115; May 23; Sp. p. 4917; Gaz. vol. 166; p. 890.
Shelly, Nathaniel B. (See Tifft and Shelly.)
Shelters, Harry K. (See Jenner and Shelters.)
Shelton, Henry D., Hughesville, Mo. Electric heater. No. 1,010,191; Nov. 28; Sp. p. 5587; Gaz. vol. 172; p. 1000.
Shelton, John B., Detroit, Mich. Dump-car. No. 994,341; June 6; Sp. p. 491; Gaz. vol. 167; p. 84.
Shelton, John F., Fort Worth, Tex. Flexible wire mat. No. 1,010,192; Nov. 28; Sp. p. 5588; Gaz. vol. 172; p. 1001.
Shelton, Mark, assignor of two-thirds to J. Isbell, Washington, and E. P. North, St. Louis, Mo. Railway chair and plate. No. 987,498; Mar. 21; Sp. p. 3667; Gaz. vol. 164; p. 654.
Shemwell, Harold, assignor to American Automatic Railway Switch Company, Birmingham, Ala. Automatic railway-switch. No. 998,643; July 25; Sp. p. 4449; Gaz. vol. 168; p. 814.
Shemwell, Harold, Asheville, N. C., assignor to American Automatic Railway Switch Company. Automatic switch. No. 998,644; July 25; Sp. p. 4453; Gaz. vol. 168; p. 814.
Shemwell, Harold, assignor to American Automatic Railway Switch Company, Birmingham, Ala. Point-thrower. No. 998,645; July 25; Sp. p. 4457; Gaz. vol. 168; p. 814.
Shepard, Artemas P. (See Detoy and Shepard.)
Shepard, Arthur M. (See Pickens and Shepard.)
Shepard, Charles H., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,009,189; Nov. 21; Sp. p. 3458; Gaz. vol. 172; p. 611.

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Shepard, Darwin W., assignor to The Shepard Patent Cement Mine and Tunnel Timbering Company, Denver, Colo. Metal-reinforced-concrete timbering for mine-shafts. No. 992,073; May 9; Sp. p. 2613; Gaz. vol. 166; p. 465.
Shepard, Darwin W., assignor to The Shepard Patent Cement Mine and Tunnel Timbering Company, Denver, Colo. Metal-reinforced-concrete timbering for mine-tunnels. No. 992,813; May 23; Sp. p. 4243; Gaz. vol. 166; p. 783.
Shepard, Edward V., and F. J. Maywald, New York, N. Y.; said Maywald assignor to said Shepard. Flavoring composition. No. 988,213; Mar. 28; Sp. p. 5215; Gaz. vol. 164; p. 925.
Shepard, Frederick C., assignor of one-half to W. S. Levings, Minneapolis, Minn. Valve-locking device. No. 1,003,211; Sept. 12; Sp. p. 2264; Gaz. vol. 170; p. 389.
Shepard, James A., Montour Falls, N. Y. Brake for hoisting apparatus. No. 990,914; May 2; Sp. p. 183; Gaz. vol. 166; p. 33.
Shepard, Melzar, Wayne, Mich. Box-lid fastener. No. 999,891; Aug. 8; Sp. p. 1407; Gaz. vol. 169; p. 267.
Shepard Patent Cement Mine and Tunnel Timbering Company, The. (See Shepard, Darwin W., assignor.)
Shepard, Richard A., Burlington, Vt. Door-support. No. 1,000,302; Aug. 8; Sp. p. 2299; Gaz. vol. 169; p. 408.
Shepard, Wilbur L., Elmwood, and H. J. Wickham, Manchester, Conn. Machine for forming peat into blocks. No. 980,685; Jan. 3; Sp. p. 1104; Gaz. vol. 162; p. 176.
Shepard, Wilbur L., Elmwood, and H. J. Wickham, Manchester, Conn. Fuel-producer. No 985,462; Feb. 28; Sp. p. 4801; Gaz. vol. 163; p. 853.
Shepard, William H., assignor to International Monorail Co., Seattle, Wash. Monorailway-track. No. 1,004,210; Sept. 26; Sp. p. 4489; Gaz. vol. 170; p. 795.
Shephard, Samuel T., Albany, N. Y. Hose-supporter. No. 1,011,865; Dec. 12; Sp. p. 3288; Gaz. vol. 173; p. 546.
Shepherd, Arthur F., Dayton, Ohio. Electrical means for automatically controlling the flow of gases or liquids. No. 995,036; June 13; Sp. p. 2064; Gaz. vol. 167; p. 361.
Shepherd, Daniel W., assignor of one-half to E. D. Harrison, Pocatello, Idaho. Dust-proof stem and sleeve. No. 1,001,463; Aug. 22; Sp. p. 4847; Gaz. vol. 169; p. 874.
Shepherd, Edward S., New York, assignor of one-half to W. W. Machemer, Brooklyn, N. Y. Collapsible packing-case. No. 1,000,955; Aug. 15; Sp. p. 3732; Gaz. vol. 169; p. 669.
Shepherd, Ernest, Philadelphia, Pa. Painter's jack. No. 982,306; Jan. 24; Sp. p. 4727; Gaz. vol. 162; p. 817.
Shepherd, George R., Cambridge, Mass. Nipple for nursing-bottles. No. 1,004,304; Sept. 26; Sp. p. 4670; Gaz. vol. 170; p. 827.
Shepherd, Gilbert C., New York, N. Y., assignor to Office Specialties Deluxe Incorporated, Worcester, Mass. Billing device. No. 983,090; Jan. 31; Sp. p. 6403; Gaz. vol. 162; p. 1112.
Shepherd, Gilbert C., New York, N. Y., assignor to Office Specialties De Luxe, Incorporated, Worcester, Mass. Temporary binder. (Reissue.) No. 13,294; Sept. 26; Sp. p. 5176; Gaz. vol. 170; p. 910.
Shepherd, Gilbert C., New York, N. Y., assignor to Office Specialties De Luxe, Incorporated, Worcester, Mass. Temporary binder. (Reissue.) No. 13,295; Sept. 26; Sp. p. 5178; Gaz. vol. 170; p. 910.
Shepherd, Gilbert C., New York, N. Y., assignor, by mesne assignments, to Office Specialties Deluxe, Incorporated, Worcester, Mass. Bill indexing and sorting device. No. 1,009,447; Nov. 21; Sp. p. 4093; Gaz. vol. 172; p. 705.
Shepherd, John, Toledo, Ohio. Cistern-cleaning apparatus. No. 985,708; Feb. 28; Sp. p. 5353; Gaz. vol. 163; p. 938.
Shepherd, John E. (See Nolen and Shepherd.)
Shepherd, Marshall L., Montgomery, Ala. Switch-operating mechanism. No. 1,011,501; Dec. 12; Sp. p. 2474; Gaz. vol. 173; p. 422.
Shepherd, Marshall L., Montgomery, Ala. Switch-operating mechanism. No. 1,011,502; Dec. 12; Sp. p. 2477; Gaz. vol. 173; p. 422.
Shepherd, Stanley, Ottawa, Ontario, assignor of one-half to W. P. Shannon, Ottawa, Canada. Electric ozonizer. No. 1,011,503; Dec. 12; Sp. p. 2479; Gaz. vol. 173; p. 422.
Shepherd, Sydney H., London, England. Steam-generator. No. 999,187; July 25; Sp. p. 5628; Gaz. vol. 168; p. 1001.
Shepler, John B. (See Scanlon, Robert M., assignor.)
Sheppard, Charles T., assignor of one-half to A. M. Loftis, Holdenville, Okla. Hame-tug and buckle. No. 1,005,896; Oct. 17; Sp. p. 2904; Gaz. vol. 171; p. 527.
Sheppard, Erle R., New York, N. Y. Card-case for folding cards. No. 985 071; Feb. 21; Sp. p. 3878; Gaz. vol. 163; p. 685.
Sheppard, Erle R., New York, N. Y. Card-case for folding cards. No. 995,380; June 13; Sp. p. 2788; Gaz. vol. 167; p. 475.
Sheppard, George, *et al.* (See Roberts, Richard S., assignor.)
Sheppard, George J., and H. F. Adams, Montreal, Quebec, Canada. Vacuum cleaning device. No. 1,002,324; Sept. 5; Sp. p. 321; Gaz. vol. 170; p. 45.
Sheppard, John, *et al.* (See Roberts, Richard S., assignor.)
Sheppe, A. L., administratrix. (See Sheppe, Eaton, and Allen.)
Sheppe, Robert H., deceased, Big Stone Gap, (A. L. Sheppe, administratrix,) H. H. Eaton, Bristol, and C. D. Allen, Meadowview, Va. Automatic cloth-measuring and price-calculating machine. No. 997,942; July 11; Sp. p. 2883; Gaz. vol. 168; p. 492.
Sherard, John H., Sherard, Miss. Draft attachment for harrows. No. 1,011,891; Dec. 12; Sp. p. 3347; Gaz. vol. 173; p. 555.
Sherbine, James, McKeesport, Pa. Wrench. No. 1,000,558; Aug. 15; Sp. p. 2883; Gaz. vol. 169; p. 529.
Sherbondy, Earl H., assignor of one-half to W. E. Sherbondy, Cleveland, Ohio. Explosive-engine. No. 988,514; Apr. 4; Sp. p. 474; Gaz. vol. 165; p. 76.
Sherbondy, William E. (See Sherbondy, Earl H., assignor.)
Sherbondy, William H., Fort Wayne, Ind., assignor to Gould Coupler Company. Electrical system of distribution. No. 989,305; Apr. 11; Sp. p. 2145; Gaz. vol. 165; p. 366.
Sheriden, Matthew H., *et al.* (See Kennedy, John, assignor.)
Sherk, Henry H., Pasadena, Cal., assignor to James B. Clow & Sons, Chicago, Ill. Faucet. No. 998,126; July 18; Sp. p. 3319; Gaz. vol. 168; p. 598.
Sherlock, Charles B., St. Joseph, Mo. Acetylene-gas apparatus. No. 983,863; Feb. 7; Sp. p. 1307; Gaz. vol. 163; p. 208.
Sherman, Alvin G., Detroit, Mich. Stove-door. No. 1,003,212; Sept. 12; Sp. p. 2265; Gaz. vol. 170; p. 389.
Sherman, Alvin G., Detroit, Mich. Gas-burner. No. 1,008,741; Nov. 14; Sp. p. 2518; Gaz. vol. 172; p. 424.
Sherman, Clifton W., assignor to Pratt & Letchworth Company, Buffalo, N. Y. Journal-box. No. 1,007,899; Nov. 7; Sp. p. 571; Gaz. vol. 172; p. 88.
Sherman, Erwin C., assignor to The William B. Pollock Company, Youngstown, Ohio. Regulating-valve. No. 986,410; Mar. 7; Sp. p. 1375; Gaz. vol. 164; p. 222.
Sherman, Erwin C., assignor to The William B. Pollock Company, Youngstown, Ohio. Cinder-car and the like. No. 997,639; July 11; Sp. p. 2177; Gaz. vol. 168; p. 385.
Sherman, Francis W., Everett, assignor to Independent Street Lighting Company, Boston, Mass. Automatic gas lighter and extinguisher. No. 989,654; Apr. 18; Sp. p. 2926; Gaz. vol. 165; p. 516.
Sherman, Harry E. (See Sherman, Louie A. and H. E.)
Sherman, James H., Kansas City, Mo. Hollow metal tile. No. 1,009,865; Nov. 28; Sp. p. 4930; Gaz. vol. 172; p. 891.
Sherman, Louie A. and H. E., Kansas City, Mo. Cartridge-shell. No. 980,351; Jan. 3; Sp. p. 339; Gaz. vol. 162; p. 62.
Sherman, Louis A., Detroit, Mich. Car-door. No. 982,099; Jan. 17; Sp. p. 4294; Gaz. vol. 162; p. 715.
Sherman, Newton, Waltham, Mass. Milk-can. No. 1,004,919; Oct. 3; Sp. p. 812; Gaz. vol. 171; p. 131.
Sherman, Willis S., and A. J. West, Milwaukee, Wis., assignors to The Richardson-Phenix Company. Automatic start and stop feed for oil-pumps. No. 986,512; Mar. 14; Sp. p. 1606; Gaz. vol. 164; p. 285.
Shero, Clarence E., Amarillo, Tex. Cut-off for concrete-mixers. No. 999,525; Aug. 1; Sp. p. 657; Gaz. vol. 169; p. 113.
Shero, Isaac K., Okemah, Okla. Hitching device. No. 986,768; Mar. 14; Sp. p. 2148; Gaz. vol. 164; p. 374.
Shero, Isaac K., Okemah, Okla. Concrete-mixer. No. 1,012,729; Dec. 26; Sp. p. 5167; Gaz. vol. 173; p. 925.
Sherrod, Jennie R., San Francisco, Cal. Hook. No. 1,005,752; Oct. 10; Sp. p. 2584; Gaz. vol. 171; p. 445.
Sherwin-Williams Company, The. (See Ballard, Frederick W., assignor.)
Sherwood, Charles A. (See Pipher, William E. A., assignor.)
Sherwood, Frank E., Scarsdale, N. Y. Hinge-mortising device. No. 1,005,336; Oct. 10; Sp. p. 1671; Gaz. vol. 171; p. 299.
Sherwood, George H., Denver, Colo. Airship. No. 999,471; Aug. 1; Sp. p. 541; Gaz. vol. 169; p. 95.
Sherwood, John S. (See Lithgow and Sherwood.)
Sherwood Manufacturing Company. (See Hart, Thomas J., assignor.)
Sherwood, William D., Bridgeport, assignor to The Valve Seating Tool Company, Fairfield, Conn. Portable driving-head. No. 988,214; Mar. 28; Sp. p. 5215; Gaz. vol. 164; p. 925.
Shibe, Benjamin F., Bala, Pa. Base-ball. No. 999,526; Aug. 1; Sp. p. 658; Gaz. vol. 169; p. 113.
Shibe, Benjamin F., Bala, Pa. Base-ball. No. 999,527; Aug. 1; Sp. p. 660; Gaz. vol. 169; p. 113.
Shields, Curtis W., New York, N. Y. Broiler-gridiron. No. 982,771; Jan. 24; Sp. p. 5689; Gaz. vol. 162; p. 975.
Shields, Edgar B., and W. L. McGuire, Lebanon, Kans. Attachment for hay-stackers. No. 995,918; June 20; Sp. p. 3985; Gaz. vol. 167; p. 692.
Shields, Edward E., *et al.* (See Wilson, John L., assignor.)

Alphabetical list of patentees—Continued.

Shields, Frank S., Cleveland, Ohio. Releasing die-holder. No. 996,890; July 4; Sp. p. 600; Gaz. vol. 168; p. 99.
Shields, Fred E., Newton, Iowa. Manure-spreader. No. 1,002,461; Sept. 5; Sp. p. 642; Gaz. vol. 170; p. 92.
Shields, George A., Columbus, Ohio. Glass-flattening table. No. 1,008,676; Nov. 14; Sp. p. 2379; Gaz. vol. 172; p. 401.
Shields, James A., Atlanta, Ga. Apparatus for treating snap-bolls. No. 994,609; June 6; Sp. p. 1053; Gaz. vol. 167; p. 175.
Shields, John S. (See Lamb and Shields.)
Shields, John S., and W. Lamb, Detroit, Mich. Pneumatic hoisting-engine. No. 986,949; Mar. 14; Sp. p. 2525; Gaz, vol. 164; p. 436.
Shields, John S., and W. Lamb, Detroit, Mich. Mechanical movement for engine-valves. No. 1,005,897; Oct. 17; Sp. p. 2906; Gaz. vol. 171; p. 527.
Shields, Landon S., Marion, Ohio. Slide-trombone. No. 987,922; Mar. 28; Sp. p. 4602; Gaz. vol. 164; p. 828.
Shields, William S., Trenton, N. J., assignor of one-half to D. H. Decker, Millerton, N. Y. Sheet-metal brace or bracket. No. 994,342; June 6; Sp. p. 492; Gaz. vol. 167; p. 85.
Shigley, Cyrus C., Grand Rapids, Mich. Valve-tension scale. No. 985,213; Feb. 28; Sp. p. 4234; Gaz. vol. 163; p. 768.
Shillington, Henry, Lurgan, Ireland. Apparatus for filtering water, sewage, and the like. No. 988,391; Apr. 4; Sp. p. 225; Gaz. vol. 165; p. 36.
Shimer, Allen C. (See Dwiggins, John W., assignor.)
Shimer, Calvin J., and O. Peterson, Sioux City, Iowa. Glove. No. 996,287; June 27; Sp. p. 4808; Gaz. vol. 167; p. 852.
Shimer, Elmer S., assignor to Samuel J. Shimer & Sons, Milton, Pa. Cutter-head. No. 1,000,850; Aug. 15; Sp. p. 3519; Gaz. vol. 169; p. 633.
Shimpf, Walter H., assignor to C. R. Teaboldt, New York, N. Y. Spring-holding device for valves. No. 982,539; Jan. 24; Sp. p. 5215; Gaz. vol. 162; p. 900.
Shine, James W., Macon, Ga. Hinge. No. 980,686; Jan. 3; Sp. p. 1105; Gaz. vol. 162; p. 177.
Shinn, James E., *et al.* (See Stewart, Scott, assignor.)
Shinn, Martin L., and W. H. Kidd, Los Angeles, Cal. Nut-lock. No. 991,379; May 2; Sp. p. 1184; Gaz. vol. 166; p. 197.
Shinn, Martin L., and W. H. Kidd, Los Angeles, Cal. Nut-lock. No. 1,009,801; Nov. 28; Sp. p. 4799; Gaz. vol. 172; p. 869.
Shinn, William C., Lincoln, Nebr. Brace for lightning-rod tops. No. 995,638; June 20; Sp. p. 3378; Gaz. vol. 167; p. 595.
Shinsky, John, and C. Langiotz, New York, assignors to Brooklyn Cooperage Company, Brooklyn, N. Y. Barrel-heading machine. No. 983,841; Feb. 7; Sp. p. 1257; Gaz. vol. 163; p. 201.
Shipley, David E., J. E. Lewis, and C. H. George, Joplin, Mo. Combined weather-strip and door-check. No. 984,306; Feb. 14; Sp. p. 2297; Gaz. vol. 163; p. 388.
Shipley, George A. (See Stockton, George T., assignor.)
Shipley, Grant B., assignor to Allis-Chalmers Company, Milwaukee, Wis. Jig. No. 995,381; June 13; Sp. p. 2789; Gaz. vol. 167; p. 475.
Shipley, Henry T. (See Challoner and Shipley.)
Shipley, Henry T., and J. W. Challoner, Oshkosh, Wis. Hay-loader. No. 986,230; Mar. 7; Sp. p. 976; Gaz. vol. 164; p. 159.
Shipley, Joseph W., Hyattsville, Md. Railway-tie. No. 1,004,483; Sept. 26; Sp. p. 5043; Gaz. vol. 170; p. 887.
Shipley, Thomas, York, Pa. Ice-cutting machine. No. 988,038; Mar. 28; Sp. p. 4885; Gaz. vol. 164; p. 868.
Shipman, Abraham T. (See Davis and Shipman.)
Shipman, Jefferson E. (See Godleskie, Edward, assignor.)
Shipman, Ralph, Sunbury, Pa. Speed-indicator. (Reissue.) No. 13,196; Jan. 10; Sp. p. 3200; Gaz. vol. 162; p. 522.
Shippen, Clara J., Buffalo, Wyo. Skirt-supporter. No. 986,769; Mar. 14; Sp. p. 2150; Gaz. vol. 164; p. 374.
Shippen, Clara J., Buffalo, Wyo. Skirt-supporter. No. 987,091; Mar. 14; Sp. p. 2775; Gaz. vol. 164; p. 480.
Shire, Anton, Harriman, assignor of one-half to C. W. Bartrum, Newburgh, N. Y. Universal adjustable miter jack and vise. No. 1,004,920; Oct. 3; Sp. p. 813; Gaz. vol. 171; p. 131.
Shires, Baltus, Urbana, Ohio. Rail-tie. No. 991,380; May 2; Sp. p. 1185; Gaz. vol. 166; p. 197.
Shirey, Orel M., New Brighton, Pa. Holder for current-collectors. No. 1,006,301; Oct. 17; Sp. p. 3824; Gaz. vol. 171; p. 670.
Shirk, Elbert W., Bedford, Ind. Refrigerator. No. 986,770; Mar. 14; Sp. p. 2151; Gaz. vol. 164; p. 374.
Shirk, Peter E., Blue Ball, Pa. Machine for cutting cigar-wrappers. No. 984,781; Feb. 21; Sp. p. 3333; Gaz. vol. 163; p. 587.
Shirley, Alfred J., Rothsay, Minn. Windmill. No. 989,068; Apr. 11; Sp. p. 1642; Gaz. vol. 165; p. 286.
Shirley, Cephas I., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Apparatus for making spiral rolls without mandrels. No. 991,175; May 2; Sp. p. 740; Gaz. vol. 166; p. 125.
Shirley, Cephas I., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Machine for reducing spirally-wound rolls. No. 994,693; June 6; Sp. p. 1260; Gaz. vol. 167; p. 205.
Shirley, J. P., *et al.* (See Howard, John, assignor.)
Shirley, Stewart, Blairsville, Pa. Railway-joint. No. 995,189; June 13; Sp. p. 2374; Gaz. vol. 167; p. 411.
Shirt, Samuel T., Sydney, New South Wales, Australia. Hand-shears. No. 1,005,661; Oct. 10; Sp. p. 2409; Gaz. vol. 171; p. 414.
Shiver, James B., Rock Hill, assignor of one-third to N. H. Dunlap, Sumter, S. C. Combined book-mark and paper-clip. No. 992,916; May 23; Sp. p. 4475; Gaz. vol. 166; p. 820.
Shoberg, Frank A., Hot Springs, S. D. Combined handle and pulley for cream-separators. No. 1,000,303; Aug. 8; Sp. p. 2300; Gaz. vol. 169; p. 408.
Shock, Abraham H., Lancaster, Pa. Automatically-computing weighing-scale. No. 1,005,337; Oct. 10; Sp. p. 1673; Gaz. vol. 171; p. 299.
Shock & Hay Loader Co. (See Battee, Henry S., assignor.)
Shockey, Ivon R., Paulton, Pa. Lamp-shifter. No. 1,004,484; Sept. 26; Sp. p. 5045; Gaz. vol. 170; p. 888.
Shockey, Willis G., Chicago, Ill. Razor. No. 1,005,753; Oct. 10; Sp. p. 2585; Gaz. vol. 171; p. 445.
Shockley, Willard T., Nashville, Tenn. Machine for skiving leather. No. 1,012,107; Dec. 19; Sp. p. 3858; Gaz. vol. 173; p. 668.
Shoe City Novelty Co. (See Clinch, Charles S., assignor.)
Shoemaker, Alvin H., assignor of one-half to W. I. Ewart, Seattle, Wash. Rail-end clamp. No. 994,038; May 30; Sp. p. 6861; Gaz. vol. 166; p. 1232.
Shoemaker, George E., *et al.* (See Shoemaker, Harry C., assignor.)
Shoemaker, Harry, Jersey City, N. J. Signaling apparatus. No. 997,515; July 11; Sp. p. 1892; Gaz. vol. 168; p. 341.
Shoemaker, Harry, Jersey City, N. J. Receiving apparatus. No. 997,516; July 11; Sp. p. 1895; Gaz. vol. 168; p. 341.
Shoemaker, Harry, Jersey City, N. J. Receiving apparatus. No. 1,009,106; Nov. 21; Sp. p. 3293; Gaz. vol. 172; p. 583.
Shoemaker, Harry, Jersey City, N. J., assignor to International Telegraph Construction Company. Transmitting apparatus. No. 1,005,338; Oct. 10; Sp. p. 1681; Gaz. vol. 171; p. 300.
Shoemaker, Harry C., Hutchinson, Kans., assignor of one-third to G. E. Shoemaker and one-third to J. H. Greider, Freeport, Ill. Motor-tractor. No. 1,012,458; Dec. 19; Sp. p. 4579; Gaz. vol. 173; p. 785.
Shoemaker, Orlando P., Clay Center, Nebr. Heater for incubators. No. 989,881; Apr. 18; Sp. p. 3404; Gaz. vol. 165; p. 594.
Shoemaker, Paul E., Williamsport, Pa. Car-stake. No. 993,890; May 30; Sp. p. 6563; Gaz. vol. 166; p. 1182.
Shoemaker, Rankin L., Newcomerstown, Ohio. Street-sweeper. No. 1,012,171; Dec. 19; Sp. p. 3992; Gaz. vol. 173; p. 689.
Shoenberg, Milton H., San Francisco, Cal. Electrical water-heater. No. 1,005,754; Oct. 10; Sp. p. 2587; Gaz. vol. 171; p. 445.
Shoenberg, Milton H., assignor to Presto Electrical Manufacturing Company, San Francisco, Cal. Electric heater. No. 981,481; Jan. 10; Sp. p. 2969; Gaz. vol. 162; p. 482.
Shoenberg, Milton H., assignor to Presto Electrical Manufacturing Company, San Francisco, Cal. Electric water-heater. No. 993,206; May 23; Sp. p. 5093; Gaz. vol. 166; p. 918.
Shoff, Jacob S., Chattanooga, Tenn. Railway-rail and tie-fastener. No. 1,008,742; Nov. 14; Sp. p. 2519; Gaz. vol. 172; p. 424.
Sholes, Charles H., Portland, Oreg. Street-car. No. 1,003,378; Sept. 12; Sp. p. 2596; Gaz. vol. 170; p. 447.
Sholes, Zalmon G., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 983,941; Feb. 14; Sp. p. 1495; Gaz. vol. 163; p. 263.
Sholty, Walter A., Toledo, Ohio, assignor to Toledo Computing Scale Company, Newark, N. J. Weighing-scale. No. 1,008,374; Nov. 14; Sp. p. 1650; Gaz. vol. 172; p. 294.
Shook, Boyd B., Rittman, Ohio. Holder for pencils, pens, and the like. No. 1,004,093; Sept. 26; Sp. p. 4231; Gaz. vol. 170; p. 754.
Shook, George A., assignor, by mesne assignments, to Pittsburg Water Heater Company, Pittsburg, Pa. Instantaneous water-heater. No. 993,723; May 30; Sp. p. 6229; Gaz. vol. 166; p. 1126.
Shope, David F., St. Paul, Minn. Waterproofing cement blocks. No. 985,709; Feb. 28; Sp. p. 5354; Gaz. vol. 163; p. 938.
Shore, Frank and T., Rochdale, and W. Shore, London, England. Sash-fastener. No. 987,409; Mar. 21; Sp. p. 3493; Gaz. vol. 164; p. 624.
Shore, Richard B. (See Fellman and Shore.)
Shore, Thomas. (See Shore, Frank, T., and W.)
Shore, William. (See Shore, Frank, T., and W.)
Short, Albert E. (See Short, Horace L., A. E., and H. O.)

Alphabetical list of patentees—Continued.

Short, Enos H., Weston, W. Va. Steak-grinder. No. 996,891; July 4; Sp. p. 605; Gaz. vol. 168; p. 99.
Short, Frank L., and A. J. Rieth, St. Louis, Mo. Box for packing and shipping leaf-tobacco. No. 987,752; Mar. 28; Sp. p. 4211; Gaz. vol. 164; p. 769.
Short, Henry E., *et al.* (See Bair, George R., assignor.)
Short, Horace L., A. E., and H. O., Battersea Park, London, England. Wheeled carriage for flying-machines. No. 984,497; Feb. 14; Sp. p. 2680; Gaz. vol. 163; p. 450.
Short, Horace L., A. E., and H. O., Battersea Park, London, England. Aeroplane. No. 999,266; Aug. 1; Sp. p. 142; Gaz. vol. 169; p. 27.
Short, Horace L., A. E., and H. O., Battersea Park, London, England. Tension-adjusting coupling. No. 1,002,001; Aug. 29; Sp. p. 6006; Gaz. vol. 169; p. 1087.
Short, Horace L., A. E., and H. O., Battersea Park, London, England. Aeroplane. No. 1,002,002; Aug. 29; Sp. p. 6008; Gaz. vol. 169; p. 1087.
Short, Hugh O. (See Short, Horace L., A. E., and H. O.)
Short, Milledge C., Boston, Mass. Garbage-receptacle. No. 988,668; Apr. 4; Sp. p. 810; Gaz. vol. 165; p. 131.
Shortt, Henry E., *et al.* (See Bair, George R., assignor.)
Shotwell, Willets H., Glen Cove, N. Y. Weather-vane. No. 993,800; May 30; Sp. p. 6392; Gaz. vol. 166; p. 1152.
Shoup, Louis E., Franklin, Pa. Feed device for drilling-rigs. No. 1,003,011; Sept. 12; Sp. p. 1838; Gaz. vol. 170; p. 318.
Shoup, Samuel R., Hoboken, N. J., assignor to Autographic Register Company, New York, N. Y. Autographic register. No. 998,209; July 18; Sp. p. 3477; Gaz. vol. 168; p. 626.
Show, John D. (See Doty and Show.)
Showalter, Erasmus W., Claypool, Ind. Acetylene-gas generator. No. 989,306; Apr. 11; Sp. p. 2147; Gaz. vol. 165; p. 366.
Shown, Silas, Owensboro, Ky. Plant-bed burner. No. 983,650; Feb. 7; Sp. p. 849; Gaz. vol. 163; p. 135.
Shrauger, Darius E., Atlantic, Iowa. Door-latch. No. 998,592; July 18; Sp. p. 4323; Gaz. vol. 168; p. 764.
Shrayer, William E., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 982,307; Jan. 24; Sp. p. 4729; Gaz. vol. 162; p. 817.
Shredded Wheat Company, The. (See Ford, William H., assignor.)
Shredded Wheat Company, The. (See Towles, Edwin P., assignor.)
Shredded Wheat Company, The. (See Wallace, Edwin L., assignor.)
Shreiner, Henry M., New York, N. Y. Colored glass. No. 990,303; Apr. 25; Sp. p. 4321; Gaz. vol. 165; p. 769.
Shreve, Walter M., Philadelphia, Pa. Barrel. No. 1,010,080; Nov. 28; Sp. p. 5378; Gaz. vol. 172; p. 933.
Shriver, Herschel L., Morgantown, W. Va. Nut-locking device. No. 1,002,185; Aug. 29; Sp. p. 6342; Gaz. vol. 169; p. 1146.
Shriver, William B. (See Burns and Shriver.)
Shrock, Hymie. (See Kubersky and Shrock.)
Shropshire, Randolph. (See Donnell and Shropshire.)
Shropshire, Thomas B. (See Donnell and Shropshire.)
Shroyer, Aaron W., Durham, N. C. Paving-tool. No. 985,214; Feb. 28; Sp. p. 4236; Gaz. vol. 163; p. 769.
Shroyer, William A. (See Lipes, John M., assignor.)
Shrum, Peter J., Monaca, assignor to Colona Manufacturing Company, Pittsburg, Pa. Thread-protector. No. 985,946; Mar. 7; Sp. p. 406; Gaz. vol. 164; p. 65.
Shrum, Peter J., Monaca, assignor to Colona Manufacturing Company, Pittsburg, Pa. Thread-protector. No. 994,880; June 13; Sp. p. 1748; Gaz. vol. 167; p. 309.
Shryock, Robert B., Kansas City, Mo. Machine for washing windows. No. 988,215; Mar. 28; Sp. p. 5219; Gaz. vol. 164; p. 926.
Shuber, Joseph, Manitowoc, Wis. Gate. No. 1,001,464; Aug. 22; Sp. p. 4848; Gaz. vol. 169; p. 875.
Shudera, John G., Winona, Minn. Railway fish-plate. No. 989,196; Apr. 11; Sp. p. 1891; Gaz. vol. 165; p. 329.
Shuey, William, Wellsburg, W. Va. Egg-separator. No. 1,001,314; Aug. 22; Sp. p. 4559; Gaz. vol. 169; p. 825.
Shufflebottom, William, and T. Kenworthy, Ashton-under-Lyne, England. Means for joining the ends of driving and other ropes. No. 981,802; Jan. 17; Sp. p. 3609; Gaz. vol. 162; p. 613.
Shughart, David G., Carlisle, Pa. Boiler-tube spreader. No. 1,004,921; Oct. 3; Sp. p. 814; Gaz. vol. 171; p. 131.
Shuler, Andrew F., Arcanum, Ohio. Poultry-insecticide applicator. No. 988,669; Apr. 4; Sp. p. 812; Gaz. vol. 165; p. 131.
Shulhof, Otto B. (See Thwaite, Robert S., assignor.)
Shull, William B., Goodland, Kans. Pneumatic rail-sander. No. 990,016; Apr. 18; Sp. p. 3698; Gaz. vol. 165; p. 641.
Shull, William B., Goodland, Kans. Self-adjusting metallic packing. No. 990,017; Apr. 18; Sp. p. 3699; Gaz. vol. 165; p. 641.
Shultz, Albert B., Buffalo, N. Y. Pump. No. 999,405; Aug. 1; Sp. p. 420; Gaz. vol. 169; p. 74.
Shultz, Albert B., Buffalo, N. Y. Fastening device for piston-pins, &c. No. 999,892; Aug. 8; Sp. p. 1408; Gaz. vol. 169; p. 267.
Shultz, Charles A., Portland, Oreg. Composition of matter to be used as a coating for grinding-surfaces. No. 1,011,504; Dec. 12; Sp. p. 2480; Gaz. vol. 173; p. 423.
Shultz, Henry B. and L. A., Minneapolis, Minn. Mold for concrete posts. No. 987,499; Mar. 21; Sp. p. 3668; Gaz. vol. 164; p. 654.
Shultz, Llewellyn B. (See Rawson and Shultz.)
Shultz, Louis A. (See Shultz, Henry B. and L. A.)
Shuman, Arno, Philadelphia, Pa. Fire-curtain for windows. No. 980,443; Jan. 3; Sp. p. 553; Gaz. vol. 162; p. 93.
Shuman, Frank, Philadelphia, Pa. Utilizing waste heat of distillation. No. 992,814; May 23; Sp. p. 4245; Gaz. vol. 166; p. 783.
Shuman, Frank, Philadelphia, Pa. Utilizing heat for the development of power. No. 1,002,768; Sept. 5; Sp. p. 1307; Gaz. vol. 170; p. 196.
Shunk, James H., Jr., Sharon, Wis. Fountain-pen. No. 984,710; Feb. 21; Sp. p. 3177; Gaz. vol. 163; p. 562.
Shupert, Frank W. (See Jacobs and Shupert.)
Shuster, Valentine D., Salem, Ohio. Switch. No. 989,197; Apr. 11; Sp. p. 1892; Gaz. vol. 165; p. 329.
Shuter, William H., Maywood, Ill. Axle-nut lock. No. 1,010,457; Dec. 5; Sp. p. 104; Gaz. vol. 173; p. 21.
Shutt, Emmett J., Rochester, N. Y. Opera-chair and means of operating the same. No. 988,515; Apr. 4; Sp. p. 477; Gaz. vol. 165; p. 77.
Shutt, Kirk G., Warren, Pa. Steel tape-measure. No. 987,500; Mar. 21; Sp. p. 3671; Gaz. vol. 164; p. 655.
Shutter, Abram L., West Haven, Conn. Spare-tire holder. No. 1,007,394; Oct. 31; Sp. p. 6251; Gaz. vol. 171; p. 1137.
Shuttleworth, Charles L. (See Shuttleworth, Jonathan C. and C. L.)
Shuttleworth, James B., West Springfield, Mass. Circular glass and gasket cutter. No. 983,173; Jan. 31; Sp. p. 6547; Gaz. vol. 162; p. 1139.
Shuttleworth, Jonathan C. and C. L., Fairmont, W. Va. Combined chair and swing. No. 1,010,812; Dec. 5; Sp. p. 911; Gaz. vol. 173; p. 143.
Shuttleworth, William P. (See Buschor, John J., assignor.)
Sibert, Nicholas S., Neodesha, Kans. Corn-planter. No. 986,513; Mar. 14; Sp. p. 1612; Gaz. vol. 164; p. 286.
Sibert, Nicholas S., Neodesha, Kans. Injector-burner. No. 988,216; Mar. 28; Sp. p. 5222; Gaz. vol. 164; p. 926.
Sibley, Edward L., Bennington, Vt. Suspension-loop for initial cathode-sheets. No. 1,002,462; Sept. 5; Sp. p. 645; Gaz. vol. 170; p. 92.
Sibley, George H., assignor to S. J. Sibley, Springfield, Mass. Fabric-package. No. 1,005,787; Oct. 10; Sp. p. 2654; Gaz. vol. 171; p. 458.
Sibley, J. L. (See Finch, John W., assignor.)
Sibley, Lucien M., Franklin, Pa. Metallic tie and rail-fastener. No. 993,891; May 30; Sp. p. 6564; Gaz. vol. 166; p. 1183.
Sibley, Stephen J. (See Sibley, George H., assignor.)
Sibo, Steve, New York, N. Y. Folding umbrella. No. 992,608; May 16; Sp. p. 3834; Gaz. vol. 166; p. 683.
Sibo, Steve, New York, N. Y. Cuspidor. No. 997,014; July 4; Sp. p. 905; Gaz. vol. 168; p. 143.
Sicard, Simon P., Muskegon, Mich. Railway-rail joint. No. 986,320; Mar. 7; Sp. p. 1173; Gaz. vol. 164; p. 190.
Sick, Edgar J., Dushore, Pa. Fountain-brush. No. 992,074; May 9; Sp. p. 2614; Gaz. vol. 166; p. 465.
Sicka, Louis T., Tooele, Utah. Spark and cinder extinguisher. No. 989,655; Apr. 18; Sp. p. 2928; Gaz. vol. 165; p. 516.
Sickler, Marion M., Pala, Cal. Road-machine. No. 1,006,139; Oct. 17; Sp. p. 3448; Gaz. vol. 171; p. 612.
Siddall, Charles J., Kalamazoo, Mich. Valve and valve-actuating means. No. 982,887; Jan. 31; Sp. p. 5956; Gaz. vol. 162; p. 1044.
Siddall, Thomas H., assignor to Sumter Machinery Company, Sumter, S. C. Gearing. No. 985,463; Feb. 28; Sp. p. 4803; Gaz. vol. 163; p. 853.
Sidebotham, John, Chicago, Ill. Cigar-moistener. No. 1,004,211; Sept. 26; Sp. p. 4490; Gaz. vol. 170; p. 795.
Sideman, Reuben, San Francisco, Cal. Skirt-marker. No. 987,327; Mar. 21; Sp. p. 3319; Gaz. vol. 164; p. 596.
Siders, George A. and S. E., Delphos, Kans. Spring-wheel. No. 1,008,375; Nov. 14; Sp. p. 1657; Gaz. vol. 172; p. 295.
Siders, Samuel E. (See Siders, George A. and S. E.)
Siders, Samuel E., Delphos, Kans., and G. A. Siders, Novinger, Mo. Combined steering and driving mechanism. No. 1,008,376; Nov. 14; Sp. p. 1658; Gaz. vol. 172; p. 295.
Sidwell, Chester C., Rivera, Cal. Drying apparatus. No. 1,011,380; Dec. 12; Sp. p. 2207; Gaz. vol. 173; p. 376.
Sieben, Henry, assignor to Fire and Gas Appliances Company, Kansas City, Mo. Gas-controlling apparatus. (Reissue.) No. 13,193; Jan. 3; Sp. p. 1572; Gaz. vol. 162; p. 249.
Siebenhaar, Otto W., assignor of one-half to B. F. & H. L. Sweet Company, Fond du Lac, Wis. Excavating-machine. No. 998,308; July 18; Sp. p. 3742; Gaz. vol. 168; p. 665.
Siebenmorgen, William, and S. H. Keefer, Plainfield, assignors to Niles-Bement-Pond Company, Jersey City, N. J. System of motor control. No. 986,091; Mar. 7; Sp. p. 716; Gaz. vol. 164; p. 115.
Sieber & Trussell Manufacturing Co. (See Faifer, Anthony, assignor.)

Sieber & Trussell Manufacturing Company. (See Dawson, James C., assignor.)
Sieber & Trussell Manufacturing Company. (See Dawson and Heeter, assignors.)
Siebert, Carl, and A. Kühn, Cassel, Germany. Instrument for high temperatures. No. 1,005,339; Oct. 10; Sp. p. 1685; Gaz. vol. 171; p. 300.
Siebert, Charles M., Jr., Columbus, Ohio. Hand-operated massage device. No. 1,001,175; Aug. 22; Sp. p. 4248; Gaz. vol. 169; p. 777.
Siedersleben & Co., G. m. b. H., W. (See Erhardt, Ludwig, assignor.)
Siegel, Edward and F., Newark, N. J. Window-reacher. No. 986,771; Mar. 14; Sp. p. 2152; Gaz. vol. 164; p. 375.
Siegel, Ernest. (See Cantor and Siegel.)
Siegel, Ernest, and M. J. Cantor, assignors of fifty-one one-hundredths to J. Ruppert, Jr., twenty-four and one-half one-hundredths to E. Siegel, and twenty-four and one-half one-hundredths to M. J. Cantor, New York, N. Y. Tire for vehicles. No. 998,127; July 18; Sp. p. 3320; Gaz. vol. 168; p. 599.
Siegel, Frederick. (See Siegel, Edward and F.)
Siegel, Herman F., Brooklyn, N. Y. Safety-lock for triggers. No. 989,817; Apr. 18; Sp. p. 3280; Gaz. vol. 165; p. 572.
Siegenbruch, Hermann, Heissen, Germany. Electric hand-lamp. No. 995,100; June 13; Sp. p. 2204; Gaz. vol. 167; p. 383.
Siegert, Carl F., Jeppes, near Johannesburg, Transvaal. Treating metalliferous materials. No. 981,696; Jan. 17; Sp. p. 3407; Gaz. vol. 162; p. 576.
Siegfried, Ira D. (See Gross and Siegfried.)
Siegfried, Ira D., Wadsworth, Ohio. Calculating device. No. 984,397; Feb. 14; Sp. p. 2468; Gaz. vol. 163; p. 418.
Siegfried, Robert, Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oil-guard for commutators. No. 981,803; Jan. 17; Sp. p. 3610; Gaz. vol. 162; p. 613.
Siegfried, Robert, Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electrically-propelled vehicle. No. 993,559; May 30; Sp. p. 5861; Gaz. vol. 166; p. 1068.
Siegfried, Robert, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Vehicle-truck. No. 1,005,340; Oct. 10; Sp. p. 1686; Gaz. vol. 171; p. 301.
Sieglinger, Fred, Lone Wolf, Okla. Cotton-chopper. No. 994,343; June 6; Sp. p. 493; Gaz. vol. 167; p. 85.
Siegmann, Heinrich, Grossenwieden-on-the-Weser, Germany. Apparatus for welding tire and like joints. No. 1,000,350; Aug. 8; Sp. p. 2405; Gaz. vol. 169; p. 423.
Siegrist, Albert L., Akron, Ohio. Vehicle-tire. No. 1,012,459; Dec. 19; Sp. p. 4583; Gaz. vol. 173; p. 785.
Sieker, Charley, Waco, Nebr. Combined hames and collar. No. 996,432; June 27; Sp. p. 5160; Gaz. vol. 167; p. 903.
Sielaff, Max, Berlin, Germany. Automatic-delivery machine. No. 1,010,966; Dec. 5; Sp. p. 1249; Gaz. vol. 173; p. 198.
Sieling, Harry G. (See Grove, William E., assignor.)
Sieman, Frederick D., Menominee, Mich. Adjustable vehicle-box. No. 987,328; Mar. 21; Sp. p. 3321; Gaz. vol. 164; p. 596.
Siemens Gebruder & Co. (See Egly, Georg, assignor.)
Siemens & Gebrüder Companie. (See Egly, Georg, assignor.)
Siemens & Halske A. G. (See Erlwein and Warth, assignors.)
Siemens & Halske, A. G. (See Gerdien, Hans, assignor.)
Siemens & Halske, A. G. (See Knips and Ey, assignors.)
Siemens & Halske A. G. (See Simpson, Otto A., assignor.)
Siemens-Schuckert Werke G. m. b. H. (See Thiele, Johannes, assignor.)
Siemens-Schuckertwerke G. m. b. H. (See Klement, Wilhelm, assignor.)
Siese, Edward. (See Smith, Edward H., assignor.)
Sieurin, Paul W., Gottenborg, Sweden. Winch. No. 983,845; Feb. 7; Sp. p. 1264; Gaz. vol. 163; p. 202.
Sievers, Henry, Sheboygan, Wis. Advertising novelty. No. 994,694; June 6; Sp. p. 1262; Gaz. vol. 167; p. 205.
Sievert, Charles E., Council Bluffs, Iowa. Grain-car door. No. 991,248; May 2; Sp. p. 898; Gaz. vol. 166; p. 152.
Sievert, Fredrick J., Somers, Mont. Scroll-saw. No. 984,398; Feb. 14; Sp. p. 2470; Gaz. vol. 163; p. 418.
Siewert, Alexander, Berlin, Germany. Extensible and retractable telescoping mast. No. 989,069; Apr. 11; Sp. p. 1644; Gaz. vol. 165; p. 286.
Sigle, Charles E., Findlay, Ohio, assignor to Central Iron Works, Quincy, Ill. Drawer-operating means. No. 1,006,412; Oct. 17; Sp. p. 4064; Gaz. vol. 171; p. 708.
Sigley, William H., Sylvan Grove, Kans. Package-vending machine. No. 1,004,094; Sept. 26; Sp. p. 4232; Gaz. vol. 170; p. 755.
Signature Company, The. (See Woodward and Crompton, assignors.)
Signorelli, Nick, Amelia, La. Harness-buckle. No. 1,005,341; Oct. 10; Sp. p. 1687; Gaz. vol. 171; p. 301.
Signorelli, Nick, Amelia, La. Rail-joint. No. 1,009,590; Nov. 21; Sp. p. 4368; Gaz. vol. 172; p. 753.
Sigurd, Carl G., San Jose, Cal. Weed-cutter. No. 1,010,813; Dec. 5; Sp. p. 912; Gaz. vol. 173; p. 144.
Sigurdsson, Oddur V., assignor to Oddur Manufacturing Company, New York, N. Y. Type-casting machine. No. 1,002,325; Sept. 5; Sp. p. 324; Gaz. vol. 170; p. 45.
Sikes, Egbert W., Milwaukee, Wis. Leather-covering conical clutch members. No. 992,815; May 23; Sp. p. 4248; Gaz. vol. 166; p. 784.
Silberberg, Saul M., Los Angeles, Cal. Grater. No. 1,008,438; Nov. 14; Sp. p. 1834; Gaz. vol. 172; p. 316.
Silbert, Gustaf I., assignor, by mesne assignments, to Chi-Ill Electric Company, Chicago, Ill. Combination-lock for electric lamps and the like. No. 1,010,814; Dec. 5; Sp. p. 913; Gaz. vol. 173; p. 144.
Silbert, Harry, Boston, and S. Wachtel, Brookline, assignors to Universal Machine Company, Boston, Mass. Machine for making hat-frames. No. 1,011,381; Dec. 12; Sp. p. 2209; Gaz. vol. 173; p. 377.
Silbert, Harry, Boston, and S. Wachtel, Brookline, assignors to Universal Machine Company, Boston, Mass. Machine for making hat-frames. No. 1,011,382; Dec. 12; Sp. p. 2212; Gaz. vol. 173; p. 377.
Silica Syndicate Limited, The. (See Kent, Henry A., assignor.)
Silk, Charles B., Massillon, Ohio. Rail-fastening. No. 990,670; Apr. 25; Sp. p. 5198; Gaz. vol. 165; p. 897.
Silkworth-Froslid Machinery Company. (See Froslid, Anton S., assignor.)
Siller, Albin. (See Siller, Nels and A.)
Siller, Nels and A., Harrowby, Manitoba, Canada. Gang-plow. No. 983,575; Feb. 7; Sp. p. 698; Gaz. vol. 163; p. 109.
Silliman, Benjamin F., assignor to The Cleveland Steel Tool Company, Cleveland, Ohio. Steam-trap. No. 992,453; May 16; Sp. p. 3487; Gaz. vol. 166; p. 627.
Silsby, Frank S., Mobile, Ala. Stand, support, and prop for bicycles, motor-cycles, &c. No. 987,753; Mar. 28; Sp. p. 4212; Gaz. vol. 164; p. 769.
Silva, Claude L., assignor of twenty-five and one-half one-hundredths to P. J. Benbough and forty-nine one-hundredths to H. Coon, J. A. Gillons, C. A. Nelson, N. H. Hargrave, W. V. O'Farrell, D. A. Garra, L. P. Owen, A. O. Walker, N. D. Kuhlman, F. M. Madison, V. E. Hawkins, I. T. Brockett, and P. J. Benbough, San Diego, Cal. Ignition system for internal-combustion engines. No. 995,489; June 20; Sp. p. 3040; Gaz. vol. 167; p. 541.
Silva, Claude L., assignor of twenty-five and one-half one-hundredths to P. J. Benbough and forty-nine one-hundredths to H. Coon, J. A. Gillons, C. A. Nelson, N. H. Hargrave, W. V. O'Farrell, D. A. Garra, L. P. Owen, A. O. Walker, N. D. Kuhlman, F. M. Madison, V. E. Hawkins, I. T. Brockett, and P. J. Benbough, San Diego, Cal. Ignition system for internal-combustion engines. No. 995,490; June 20; Sp. p. 3041; Gaz. vol. 167; p. 542.
Silver, Jesse W. (See Savage and Silver.)
Silver, Joseph, and J. Walter, New York, N. Y. Car-fender. No. 1,007,395; Oct. 31; Sp. p. 6252; Gaz. vol. 171; p. 1138.
Silverberg, Irvin. (See Hutchins, Frederick S., assignor.)
Silversmiths Company, The. (See Heriot, George D., assignor.)
Sim, Alexander, East Milton, Mass. Stem winding and setting mechanism. No. 991,552; May 9; Sp. p. 1562; Gaz. vol. 166; p. 289.
Simenson, Olaf M. (See Simenson, Oley R. and O. M.)
Simenson, Oley R. and O. M., Olympia, Wash. Pole-reversing switch and wiring system. No. 1,006,140; Oct. 17; Sp. p. 3454; Gaz. vol. 171; p. 613.
Simmers, Charles S., Cold Spring, N. Y. Jarring-machine. No. 991,381; May 2; Sp. p. 1186; Gaz. vol. 166; p. 198.
Simmon, Lewis A., Auburndale, Fla. Hive-switchboard. No. 988,828; Apr. 4; Sp. p. 1143; Gaz. vol. 165; p. 183.
Simmons, Andrew J., Farmington, Mo. Harness-saddle. No. 1,005,079; Oct. 3; Sp. p. 1088; Gaz. vol. 171; p. 183.
Simmons, Charles E. (See Raney and Simmons.)
Simmons, Charles M. (See Morrow and Simmons.)
Simmons, Charles P., New York, N. Y. Carbureter. No. 989,307; Apr. 11; Sp. p. 2149; Gaz. vol. 165; p. 367.
Simmons, Francis H. (See Salisbury, George P., assignor.)
Simmons Hardware Company. (See Blackburn and Stellers, assignors.)
Simmons, Harry, assignor of one-half to P. Simmons, Forest Lake, Minn. Box-opener. No. 1,005,755; Oct. 10; Sp. p. 2590; Gaz. vol. 171; p. 446.
Simmons, Henry L., Mexico, Mexico. Washing-machine. No. 989,070; Apr. 11; Sp. p. 1645; Gaz. vol. 165; p. 286.
Simmons, James L. (See Moore and Simmons.)
Simmons, James M., Wichita, Kans. Pipe-cleaner. No. 999,346; Aug. 1; Sp. p. 290; Gaz. vol. 169; p. 54.
Simmons, John E., Portland, Oreg. Spring axle-bearing for vehicles. No. 985,072; Feb. 21; Sp. p. 3879; Gaz. vol. 163; p. 685.
Simmons, John H., Memphis, Tenn. Stave-jointer. No. 984,038; Feb. 14; Sp. p. 1719; Gaz. vol. 163; p. 296.
Simmons, Leo, Washington, D. C. Flushing apparatus. No. 1,008,928; Nov. 14; Sp. p. 2887; Gaz. vol. 172; p. 485.
Simmons Manufacturing Company, The. (See Gail, Charles H., assignor.)
Simmons Manufacturing Company, The. (See Vincent, William W., assignor.)

Alphabetical list of patentees—Continued.

Simmons Manufacturing Company, The. (See Wilson, John C., assignor.)
Simmons, Oliver G., Washington, D. C., assignor of one-half to K. L. Kintzel, Tamaqua, Pa. Aeroplane. No. 993,724; May 30; Sp. p. 6234; Gaz. vol. 166; p. 1127.
Simmons, Peter. (See Simmons, Harry, assignor.)
Simmons Pipe Bending Works. (See Stock, Robert W., assignor.)
Simmons, Robert F., assignor to New York Stamping Company, Brooklyn, N. Y. Frying-pan. No. 998,927; July 25; Sp. p. 5096; Gaz. vol. 168; p. 914.
Simmons, Robert T., Wynne, Ark. Cotton-chopper. No. 997,015; July 4; Sp. p. 906; Gaz. vol. 168; p. 143.
Simmons, Sidney A., Waltham, Mass. Mail-bag catcher. No. 984,163; Feb. 14; Sp. p. 1965; Gaz. vol. 163; p. 337.
Simmons, William, Bothell, Wash. Mail-sack fastener. No. 1,011,866; Dec. 12; Sp. p. 3290; Gaz. vol. 173; p. 546.
Simmons, William A., Kirkwood, Mo. Apparel-belt. No. 990,071; Apr. 18; Sp. p. 3798; Gaz. vol. 165; p. 658.
Simmons, William A., Kirkwood, Mo. Apparel-belt. No. 1,008,439; Nov. 14; Sp. p. 1835; Gaz. vol. 172; p. 316.
Simms, Frederick R., London, England, assignor to The Simms Magneto Company. Distributer for electric-accumulator ignition-gear. No. 1,008,206; Nov. 7; Sp. p. 1195; Gaz. vol. 172; p. 196.
Simms, Frederick R., London, England, assignor to The Simms Magneto Company. High-tension magneto-electric machine. No. 1,012,730; Dec. 26; Sp. p. 5170; Gaz. vol. 173; p. 926.
Simms, Harold H., assignor of one-half to E. S. Clarkson, Washington, D. C. Type-writing machine. No. 1,002,606; Sept. 5; Sp. p. 954; Gaz. vol. 170; p. 141.
Simms Magneto Company, The. (See Simms, Frederick R., assignor.)
Simon, Abraham A., New York, N. Y. Feed-bag. No. 1,001,465; Aug. 22; Sp. p. 4850; Gaz. vol. 169; p. 875.
Simon, Arthur. (See Friedman, Bernhard Z., assignor.)
Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 985,215; Feb. 28; Sp. p. 4237; Gaz. vol. 163; p. 769.
Simon, Arthur, assignor to The Cutler-Hammer Manufacturing Company, Milwaukee, Wis. Alternating-current switch. No. 1,006,504; Oct. 24; Sp. p. 4296; Gaz. vol. 171; p. 770.
Simon, Arthur, assignor, by mesne assignments, of one-half to I. Blackman, Forth Worth, Tex. Watch-charm. No. 993,801; May 30; Sp. p. 6394; Gaz. vol. 166; p. 1153.
Simon, Carl F., assignor to Chemische Fabrik Rhenamia, Stolberg, Rhineland, Germany. Automatic recording apparatus for measuring gaseous fluids. No. 1,009,448; Nov. 21; Sp. p. 4094; Gaz. vol. 172; p. 706.
Simon, Casper. (See Drucklieb and Simon.)
Simon, Charles, Avilla, Ind. Check-controlled postage-stamp-vending machine. No. 1,007,983; Nov. 7; Sp. p. 741; Gaz. vol. 172; p. 116.
Simon, Frank C., Hornell, N. Y. Box-sleigh. No. 1,007,497; Oct. 31; Sp. p. 6477; Gaz. vol. 171; p. 1172.
Simon, Henry H., Atlanta, Ga. Internal-combustion engine. No. 1,004,095; Sept. 26; Sp. p. 4235; Gaz. vol. 170; p. 755.
Simon, Hermann, Steglitz, Germany. Refuse-conveyer. No. 1,001,224; Aug. 22; Sp. p. 4357; Gaz. vol. 169; p. 793.
Simon, John E., Louisville, Ky. Apparatus for making clear can-ice. No. 1,012,108; Dec. 19; Sp. p. 3859; Gaz. vol. 173; p. 668.
Simon, Joseph A., Memphis, Tenn. Track-cleaner. No. 1,013,078; Dec. 26; Sp. p. 5964; Gaz. vol. 173; p. 1044.
Simon, Myer, New York, assignor to R. Wolpert, Brooklyn, N. Y. Garment. No. 1,003,155; Sept. 12; Sp. p. 2130; Gaz. vol. 170; p. 367.
Simonds, Samuel W., *et al.* (See McManama, John W., assignor.)
Simons, Frank, St. Louis, Mo. Bell-ringer. No. 1,003,953; Sept. 19; Sp. p. 3869; Gaz. vol. 170; p. 679.
Simons, Harry, Chicago, Ill. Pattern-rack. No. 997,333; July 11; Sp. p. 1557; Gaz. vol. 168; p. 282.
Simons, Samuel M., Aldan, Pa. Hinged binding-tag. No. 998,646; July 25; Sp. p. 4460; Gaz. vol. 168; p. 815.
Simons, William H., assignor of fifty-one one-hundredths to W. H. Litchford, Columbus, Ohio. Car-coupling. No. 1,011,505; Dec. 12; Sp. p. 2481; Gaz. vol. 173; p. 423.
Simonsen, Ole K., and C. Rasmussen, Chicago, Ill. Glass ceiling construction. No. 1,006,599; Oct. 24; Sp. p. 4522; Gaz. vol. 171; p. 806.
Simonson, Christian J., and T. Fagervik, Minneapolis, Minn. Steel tire. No. 1,002,003; Aug. 29; Sp. p. 6012; Gaz. vol. 169; p. 1088.
Simonyi, Frank, New York, N. Y. Fire-alarm. No. 991,903; May 9; Sp. p. 2288; Gaz. vol. 166; p. 408.
Simple Account Salesbook Company, The. (See Carter, Emory J., assignor.)
Simple Account Salesbook Company, The. (See Metzgar, Leroy, assignor.)
Simplex Adder Company, The. (See Cheape, John A., assignor.)
Simplex Electric Heating Company. (See Ayer, James I., assignor.)
Simplex Electric Heating Company. (See Chandler, Edwin N., assignor.)
Simplex Electric Heating Company. (See Chandler and Lewis, assignors.)
Simplex Electric Heating Company. (See Gale, Horace B., assignor.)
Simplex Electrical Company, The. (See Morss, Everett, assignor.)
Simplex Hose Connection Co. (See Myer, Claus D., assignor.)
Simplex Letter Opener Company, The. (See Ries, Elias E., assignor.)
Simplex Metal Bound Box Company. (See Fleming, Douglas P., assignor.)
Simplex Metal Bound Box Company. (See Flora, Ellsworth E., assignor.)
Simplex Metal Bound Box Company. (See Reineke, Walter E., assignor.)
Simplex Mfg. Co. (See Lowenthal, Bernard, assignor.)
Simplex Motor Car Company, The. (See Gulick, Edward J., assignor.)
Simplex Player Action Co. (See Brown, Theodore P., assignor.)
Simplex Railway Appliance Company. (See Bauer and Fowler, assignors.)
Simplex Railway Appliance Company. (See Bauer and Whitney, assignors.)
Simplex Railway Appliance Company. (See Conrath, Bernard, assignor.)
Simplex Railway Appliance Company. (See Fowler, William E., Jr., assignor.)
Simplex Railway Appliance Company. (See Murray, Charles F., assignor.)
Simplex Roller Bearing Company. (See Upton, Colcord, assignor.)
Simpson, Albert L., San Diego, Cal. Dental napkin. No. 983,174; Jan. 31; Sp. p. 6549; Gaz. vol. 162; p. 1139.
Simpson, Alexander B., New York, N. Y. Vehicle-wheel. No. 1,008,083; Nov. 7; Sp. p. 934; Gaz. vol. 172; p. 150.
Simpson, Arthur D., Orion, Kans. Automobile-tire. No. 994,610; June 6; Sp. p. 1058; Gaz. vol. 167; p. 176.
Simpson, Cassius M., Cincinnati, Ohio. Clasp. No. 989,071; Apr. 11; Sp. p. 1646; Gaz. vol. 165; p. 287.
Simpson, Charles A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 998,719; July 25; Sp. p. 4623; Gaz. vol. 168; p. 840.
Simpson, Charles A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone trunking system. No. 1,009,190; Nov. 21; Sp. p. 3463; Gaz. vol. 172; p. 612.
Simpson, Charles E., Portsmouth, Ohio. Mold-forming machine. No. 1,008,207; Nov. 7; Sp. p. 1198; Gaz. vol. 172; p. 197.
Simpson, Fredrick V., Niagara Falls, N. Y. Ground-anchor. No. 998,720; July 25; Sp. p. 4627; Gaz. vol. 168; p. 841.
Simpson Grate Shaker Company. (See Simpson, William J., assignor.)
Simpson, Henry H., Pilot Grove, Mo. Line-joint tester. No. 1,007,741; Nov. 7; Sp. p. 197; Gaz. vol. 172; p. 31.
Simpson, Herbert A., Homer, Mich. Vacuum-separator. No. 997,864; July 11; Sp. p. 2705; Gaz. vol. 168; p. 464.
Simpson, Isaac, Edgewood Park, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Friction draft and buffing members. No. 1,009,696; Nov. 21; Sp. p. 4564; Gaz. vol. 172; p. 786.
Simpson, James E. (See Poppendieck, William, assignor.)
Simpson, John T., Newark, N. J. Expanded metal. No. 1,006,505; Oct. 24; Sp. p. 4301; Gaz. vol. 171; p. 771.
Simpson, Joseph B. (See Andrews, Hiram B., assignor.)
Simpson, Joseph B., Easton, Pa. Brake-beam and fulcrum therefor. No. 1,010,967; Dec. 5; Sp. p. 1254; Gaz. vol. 173; p. 198.
Simpson, Lee S., St. Louis, Mo. Window-shade bracket. No. 985,848; Mar. 7; Sp. p. 192; Gaz. vol. 164; p. 31.
Simpson, Otto A., Charlottenburg, assignor to Siemens & Halske A. G., Berlin, Germany. Manufacturing metal tubes. No. 993,116; May 23; Sp. p. 4921; Gaz. vol. 166; p. 890.
Simpson, Robert D., Columbus, Ohio. Churn. No. 1,004,305; Sept. 26; Sp. p. 4671; Gaz. vol. 170; p. 827.
Simpson, Robert J., assignor to L. S. Starrett Company, Athol, Mass. Folding steel rule. No. 986,772; Mar. 14; Sp. p. 2153; Gaz. vol. 164; p. 375.
Simpson, Roy B., Chicago, Ill. Ice-cream freezer. No. 1,005,342; Oct. 10; Sp. p. 1688; Gaz. vol. 171; p. 301.
Simpson, Selden L., Cleveland, Ohio. Resilient wheel. No. 993,802; May 30; Sp. p. 6395; Gaz. vol. 166; p. 1153.
Simpson, Selden L., Cleveland, Ohio, assignor of one-half to H. J. Best, Detroit, Mich. Protecting device for collars. No. 1,007,396; Oct. 31; Sp. p. 6255; Gaz. vol. 171; p. 1138.
Simpson, Thomas H., Detroit, Mich. Forming railway-car axles. No. 981,697; Jan. 17; Sp. p. 3409; Gaz. vol. 162; p. 576.
Simpson, William, New York, N. Y. Adjustable and disappearing foot-rest for Morris chairs. No. 988,600; Apr. 4; Sp. p. 670; Gaz. vol. 165; p. 107.
Simpson, William J., Hope, Idaho, assignor to Simpson Grate Shaker Company, Spokane, Wash. Shaker for grates. No. 987,754; Mar. 28; Sp. p. 4213; Gaz. vol. 164; p. 769.

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Simpson, William S., London, England. Extraction of oils and fats. No. 1,012,572; Dec. 19; Sp. p. 4819; Gaz. vol. 173; p. 827.
Simpson, William T., Junction City, Kans. Garage turntable. No. 992,917; May 23; Sp. p. 4477; Gaz. vol. 166; p. 821.
Sims-Bailey, Charles. (See Pillow, Benjamin A., assignor.)
Sims, Florence. (See Sims, Frederick L. H., assignor.)
Sims, Frederick L. H., assignor to F. Sims, Georgetown, Ontario, Canada. Key-bolt. No. 1,000,445; Aug. 15; Sp. p. 2634; Gaz. vol. 169; p. 489.
Sims, Henry, Erie, Pa. Fluid-guide for fluid-conveying tubes. No. 985,216; Feb. 28; Sp. p. 4242; Gaz. vol. 163; p. 769.
Sims, Walter P., assignor of one-half to Ilo Hardware and Implement Company, Ltd., Ilo, Idaho. Clothes-pin. No. 995,298; June 13; Sp. p. 2579; Gaz. vol. 167; p. 447.
Sims, William W., Hammond, Ind. Horseshoe. No. 995,190; June 13; Sp. p. 2375; Gaz. vol. 167; p. 411.
Sinclair, Alexander M. (See Nepean-Hutchison, William, assignor.)
Sinclair, Charles M., Chicago, Ill. Metallic door. No. 1,001,315; Aug. 22; Sp. p. 4560; Gaz. vol. 169; p. 825.
Sinclair, Cora, *et al.* (See Storm, George H., assignor.)
Sinclair, George B. (See Severy and Sinclair.)
Sinclair, Harry L. (See Sinclair, James H. and H. L.)
Sinclair, James H. and H. L., Denver, Colo. Means for clamping drill-steels. No. 984,039; Feb. 14; Sp. p. 1721; Gaz. vol. 163; p. 296.
Sinderson, John B., Rockford, Ill. Grass-trimmer. No. 986,598; Mar. 14; Sp. p. 1790; Gaz. vol. 164; p. 317.
Sinding-Larsen, Alf, Christiania, Norway. Treatment of titaniferous iron ores. No. 995,576; June 20; Sp. p. 3235; Gaz. vol. 167; p. 572.
Sindle, Harold S. (See Thompson, John, assignor.)
Singer, Charles, Peoria, Ill. Jacket for water-bottles. No. 991,098; May 2; Sp. p. 562; Gaz. vol. 166; p. 98.
Singer, Friedrich, Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Vat dyestuff of the anthracene series. No. 999,680; Aug. 1; Sp. p. 952; Gaz. vol. 169; p. 166.
Singer, Fritz, Offenbach-on-the-Main, assignor to Chemische Fabrik Griesheim Elektron, Frankfort-on-the-Main, Germany. Manufacture of anthranol. No. 999,062; July 25; Sp. p. 5404; Gaz. vol. 168; p. 962.
Singer, Joseph, Chicago, Ill. Body-exerciser. No. 992,272; May 16; Sp. p. 3097; Gaz. vol. 166; p. 564.
Singer Manufacturing Company, The. (See Abercrombie, Charles M., assignor.)
Singer Manufacturing Company, The. (See Almond, Lester L., assignor.)
Singer Manufacturing Company, The. (See Barron, William L., assignor.)
Singer Manufacturing Company, The. (See Brown, Otis E., assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Diehl and Eichhorn, assignors.)
Singer Manufacturing Company, The. (See Eichhorn, Hermann, assignor.)
Singer Manufacturing Company, The. (See Gray, Charles F., assignor.)
Singer Manufacturing Company, The. (See Grieb, Alfred, assignor.)
Singer Manufacturing Company, The. (See Heggie, James, assignor.)
Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
Singer Manufacturing Company, The. (See Horton, Charles M., assignor.)
Singer Manufacturing Company, The. (See Hugg, William H., assignor.)
Singer Manufacturing Company, The. (See Laubscher, Alexander, assignor.)
Singer Manufacturing Company, The. (See Loweth, Frederick C., assignor.)
Singer Manufacturing Company, The. (See Mealing, Ernest A., assignor.)
Singer Manufacturing Company, The. (See Molyneux, George E., assignor.)
Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
Singer Manufacturing Company, The. (See Ringe, John C., assignor.)
Singer Manufacturing Company, The. (See Rontke, Albert, assignor.)
Singer Manufacturing Company, The. (See Stegemann, Charles, assignor.)
Singer Manufacturing Company, The. (See Ströbeck, Frans T., assignor.)
Singer Manufacturing Company, The. (See Woehrle, Henriette B., assignor.)
Singer Manufacturing Company, The. (See Woodhead, Frank S., assignor.)
Singer, Samuel, Brooklyn, N. Y. Device for adjusting suspended electric lamps. No. 992,273; May 16; Sp. p. 3100; Gaz. vol. 166; p. 564.
Singer, William H., West Allis, Wis., assignor to Allis-Chalmers Company. Commutator-type dynamo-electric machine. No. 986,028; Mar. 7; Sp. p. 588; Gaz. vol. 164; p. 94.
Single Service Package Corporation of America. (See Beadle, George W., assignor.)
Single Service Package Corporation of America. (See Jenkins, Atwood L., assignor.)
Single Service Package Corporation of America. (See Jenkins, Charles F., assignor.)
Single Service Package Corporation of America. (See Olson, Karl O., assignor.)
Single Service Package Corporation of America. (See Osborn, Francis C., assignor.)
Single Service Package Corporation of America. (See Rodgers, Howard S., assignor.)
Single Service Package Corporation of America. (See Starr, Alden B., assignor.)
Singleton, David T., Willard, Ga. Attachable lamp-protector. No. 1,012,460; Dec. 19; Sp. p. 4585; Gaz. vol. 173; p. 786.
Singleton, Joseph J. C., Fort Worth, Tex. Tankage and manure press. No. 987,649; Mar. 21; Sp. p. 3959; Gaz. vol. 164; p. 706.
Singleton, Mark G. (See Parks and Singleton.)
Sink, Albert E., New York, N. Y. Electric cable. No. 990,398; Apr. 25; Sp. p. 4558; Gaz. vol. 165; p. 804.
Sinks, Frank F., assignor to Condron & Sinks, Chicago, Ill. Monolithic building construction. No. 1,005,756; Oct. 10; Sp. p. 2591; Gaz. vol. 171; p. 446.
Sinnott, James, Chatham, Ill. Self-filler fountain-pen. No. 1,001,225; Aug. 22; Sp. p. 4358; Gaz. vol. 169; p. 793.
Sintz, Clark, assignor of fifty-one one-hundredths to W. A. Gordon, New Orleans, La. Internal-combustion engine. No. 981,952; Jan. 17; Sp. p. 3999; Gaz. vol. 162; p. 667.
Sintz, Clark, assignor of fifty-one one-hundredths to W. A. Gordon, New Orleans, La. Variable-speed transmission mechanism. No. 986,092; Mar. 7; Sp. p. 718; Gaz. vol. 164; p. 115.
Sipes, Alfred M., Mobeetie, Tex. Safety-stirrup. No. 1,007,247; Oct. 31; Sp. p. 5944; Gaz. vol. 171; p. 1085.
Sipp, Grant, Paterson, N. J. Quilling-machine. No. 985,947; Mar. 7; Sp. p. 408; Gaz. vol. 164; p. 65.
Sippel, Cornelius. (See Patitz and Sippel.)
Sipple, Alvie, Elgin, Oreg. Saw-sharpener. No. 996,732; July 4; Sp. p. 264; Gaz. vol. 168; p. 46.
Siragusa, John, and R. E. Wood, Chicago, Ill. Trolley head and harp. No. 994,039; May 30; Sp. p. 6863; Gaz. vol. 166; p. 1232.
Sireno Company, The. (See Illsley, Frank P., assignor.)
Sirgado, José P. (See Escalante and Sirgado.)
Sisson, Thomas F., assignor to A. J. Miller, Providence, R. I. Universal jolt-ramming machine for core-boxes. No. 985,464; Feb. 28; Sp. p. 4805; Gaz. vol. 163; p. 853.
Sisson, Vinton E., Webster Groves, assignor to The Ingoldsby Automatic Car Company, St. Louis, Mo. Dump-car. No. 1,000,446; Aug. 15; Sp. p. 2635; Gaz. vol. 169; p. 489.
Sistermann, Gustav, Cologne, Germany. Collapsible scaffolding and like structure. No. 999,126; July 25; Sp. p. 5520; Gaz. vol. 168; p. 981.
Sisti, Salvatore L., Washington, D. C. Combination bedstead and trunk. No. 996,370; June 27; Sp. p. 5007; Gaz. vol. 167; p. 882.
Sites, Charles F., Newark, Ohio. Chemical sprayer and disinfector. No. 1,004,700; Oct. 3; Sp. p. 320; Gaz. vol. 171; p. 55.
Sitka, Gustav, Chicago, Ill. Safety-trolley. No. 995,191; June 13; Sp. p. 2376; Gaz. vol. 167; p. 412.
Sitz, Clara B., Washington, D. C. Couch-support and spring-holder. No. 987,755; Mar. 28; Sp. p. 4215; Gaz. vol. 164; p. 770.
Sivard, Einar L. M., Brooklyn, N. Y., assignor to Welin Davit and Lane & De Groot Company, Consolidated. Boat construction. No. 986,411; Mar. 7; Sp. p. 1378; Gaz. vol. 164; p. 222.
Siverd, William, Geneseo, N. Y. Vehicle-brake. No. 985,298; Feb. 28; Sp. p. 4426; Gaz. vol. 163; p. 797.
Siverling, George E., Chicago, Ill. Odontometer. No. 984,040; Feb. 14; Sp. p. 1722; Gaz. vol. 163; p. 296.
Sivertson, Lucas K., *et al.* (See Paton, Robert, assignor.)
Sivertson, Lucas K., Carrington, N. D. Compound rotary engine. No. 987,264; Mar. 21; Sp. p. 3183; Gaz. vol. 164; p. 576.
Sizemore, Martha W., Cobb, Ky. Saw. No. 991,249; May 2; Sp. p. 902; Gaz. vol. 166; p. 153.
Sizer, Armour A. (See Sizer, Samuel D. and A. A.)
Sizer, Samuel D. and A. A., Bluefield, W. Va. Spark-arrester. No. 986,599; Mar. 14; Sp. p. 1791; Gaz. vol. 164; p. 317.
Sjobring, Nils P., Chicago, Ill. Sheet-metal door. No. 1,003,070; Sept. 12; Sp. p. 1948; Gaz. vol. 170; p. 337.
Sjöholm, Nils P., St. Louis, Mo. Valve-removing apparatus. No. 1,000,559; Aug. 15; Sp. p. 2885; Gaz. vol. 169; p. 529.
Sjoholm, Nils P., St. Louis, Mo. Tire-holder. No. 1,009,591; Nov. 21; Sp. p. 4369; Gaz. vol. 172; p. 753.

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Sjostrand, Charles, St. Paul, Minn. Chuck. No. 1,012,731; Dec. 26; Sp. p. 5170; Gaz. vol. 173; p. 926.
Sjöstrand, Ulrik S., and H. A. Petterson, Sundbyberg, near Stockholm, assignors of one-fourth to Sven Mattsson, Mörrum, Sweden. Machine for cutting lard and the like. No. 1,008,208; Nov. 7; Sp. p. 1202; Gaz. vol. 172; p. 197.
Sjöström, John G., Jönköping, Sweden. Match-splint-assembling machine. No. 1,011,506; Dec. 12; Sp. p. 2482; Gaz. vol. 173; p. 423.
Skaer, James A., Wichita, Kans. Washing-machine. No. 991,032; May 2; Sp. p. 427; Gaz. vol. 166; p. 73.
Skakel, William, Springfield, S. D. Manure-loader. No. 984,164; Feb. 14; Sp. p. 1966; Gaz. vol. 163; p. 338.
Skalicky, Richard, and F. Mikulka, Vienna, Austria-Hungary. Railway-signal. No. 1,002,087; Aug. 29; Sp. p. 6161; Gaz. vol. 169; p. 1114.
Skatschkoff, James, St. Petersburg, Russia. Means for raising sunken vessels. No. 994,611; June 6; Sp. p. 1059; Gaz. vol. 167; p. 176.
Skeel, Frederick F., Chicago, Ill. Metering electrical distribution system including a metering panel-board. No. 987,650; Mar. 21; Sp. p. 3961; Gaz. vol. 164; p. 706.
Skeen, Samuel T., assignor of one-half to C. F. Patterson, Sandoval, Ill. Match-box attachment for headwear. No. 981,320; Jan. 10; Sp. p. 2625; Gaz. vol. 162; p. 427.
Skeith, Isaac L. (See Lueth and Skeith.)
Skelding, Squire J., Mount Carmel, Pa. Miner's cap. No. 1,007,984; Nov. 7; Sp. p. 744; Gaz. vol. 172; p. 117.
Skellenger, Charles F. (See Beall and Skellenger.)
Skelly, Elizabeth, Chicago, Ill. Hoe-blade. No. 981,698; Jan. 17; Sp. p. 3410; Gaz. vol. 162; p. 576.
Skelotree Company. (See Hawkins, Edward C., assignor.)
Skelton, Charles C., Butler, Ind. Sack-holder. No. 999,406; Aug. 1; Sp. p. 421; Gaz. vol. 169; p. 75.
Skelton, John G., Brown Station, N. Y. Dipper-tooth. No. 1,003,663; Sept. 19; Sp. p. 3215; Gaz. vol. 170; p. 580.
Skelton, John H., Bayonne, N. J. Nut-lock. No. 999,528; Aug. 1; Sp. p. 660; Gaz. vol. 169; p. 114.
Skelton, John H., Bayonne, N. J. Nut-lock. No. 999,529; Aug. 1; Sp. p. 662; Gaz. vol. 169; p. 114.
Skelton, John H., Bayonne, N. J., assignor to The Patent Appliance Company. Fastening device. No. 990,460; Apr. 25; Sp. p. 4696; Gaz. vol. 165; p. 825.
Skiba, Stephen, New York, N. Y. Cover for vessels. No. 1,002,004; Aug. 29; Sp. p. 6013; Gaz. vol. 169; p. 1088.
Skidmore, Charles H. (See Peart, Joseph, assignor.)
Skidmore, Major F., Toledo, Ohio. Fountain-pen. No. 999,407; Aug. 1; Sp. p. 423; Gaz. vol. 169; p. 75.
Skiff, Joseph B., Clinton, Iowa, and C. J. Westphall, Portland, Oreg. Fence-post. No. 997,710; July 11; Sp. p. 2315; Gaz. vol. 168; p. 410.
Skillman, M. R. (See Nicholson, John E., assignor.)
Skinner, Allan D., Erie, Pa. Valve-gear. No. 1,003,664; Sept. 19; Sp. p. 3217; Gaz. vol. 170; p. 580.
Skinner, Burr R., Aberdeen, S. D. Station indicator or advertiser. No. 991,904; May 9; Sp. p. 2289; Gaz. vol. 166; p. 408.
Skinner, Charles E., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Winding-coil for dynamo-electric machines. No. 999,893; Aug. 8; Sp. p. 1410; Gaz. vol. 169; p. 268.
Skinner, Edward B., *et al.* (See Van Wye, Garry P., assignor.)
Skinner, Edwin H., Arrochar, N. Y. Flying-machine. No. 1,000,560; Aug. 15; Sp. p. 2887; Gaz. vol. 169; p. 530.
Skinner, Frank H., Chicago, Ill. Dental tool. No. 989,882; Apr. 18; Sp. p. 3405; Gaz. vol. 165; p. 594.
Skinner, Frank H., assignor of one-half to J. L. Kelly, Chicago, Ill. Dental tool. No. 1,003,213; Sept. 12; Sp. p. 2266; Gaz. vol. 170; p. 390.
Skinner, Frank N., Coffeyville, Kans. Display-rack. No. 990,671; Apr. 25; Sp. p. 5200; Gaz. vol. 165; p. 897.
Skinner, Fred L., Malden, Mass. Gate-controlling mechanism for openings in buildings. No. 1,006,302; Oct. 17; Sp. p. 3825; Gaz. vol. 171; p. 670.
Skinner, George H., Ealing, England. Carbureting apparatus. No. 998,993; July 25; Sp. p. 5260; Gaz. vol. 168; p. 937.
Skinner, Harry C., and E. H. Wells, Detroit, Mich. Heating system. No. 996,733; July 4; Sp. p. 265; Gaz. vol. 168; p. 47.
Skinner, J. W., *et al.* (See Davis, Theodore, assignor.)
Skinner, J. W., *et al.* (See Sondley, William T., assignor.)
Skinner, Le Grand, Erie, Pa. Engine-valve. No. 990,304; Apr. 25; Sp. p. 4322; Gaz. vol. 165; p. 769.
Skinner, Le Grand, Erie, Pa. Engine-valve. No. 990,305; Apr. 25; Sp. p. 4324; Gaz. vol. 165; p. 770.
Skinner & Skinner Co. (See Costello and Skinner, assignors.)
Skinner, Stephen G. (See Costello and Skinner.)
Skinner, Theodore H., assignor to Oneida Community Limited, Oneida, N. Y. Reinforced concrete. No. 996,288; June 27; Sp. p. 4809; Gaz. vol. 167; p. 853.
Skinner, Theodore H., assignor to Oneida Community, Ltd., Oneida, N. Y. Reinforced-concrete column. No. 1,008,209; Nov. 7; Sp. p. 1204; Gaz. vol. 172; p. 197.
Skinner, Theodore H., assignor to Oneida Community, Limited, Oneida, N. Y. Reinforced-concrete structure. No. 1,008,210; Nov. 7; Sp. p. 1206; Gaz. vol. 172; p. 198.
Skipp, Herbert J. (See Nichols and George, assignors.)
Skitt, James H. (See Drum and Skitt.)
Skitt, James H., and G. E. Drum, assignors to Smith, Drum & Company, Philadelphia, Pa. Singeing-machine. No. 1,012,022; Dec. 19; Sp. p. 3664; Gaz. vol. 173; p. 638.
Skitt, James H., and G. E. Drum, assignors to Smith, Drum & Company, Philadelphia, Pa. Singeing-machine. No. 1,012,172; Dec. 19; Sp. p. 3994; Gaz. vol. 173; p. 689.
Skjeldrup, Ingvald, Fergus Falls, Minn. Tilting rake. No. 984,399; Feb. 14; Sp. p. 2472; Gaz. vol. 163; p. 418.
Skjelstad, Andrew, Duluth, Minn. Faucet. No. 1,006,012; Oct. 17; Sp. p. 3163; Gaz. vol. 171; p. 568.
Sklar, John, Brooklyn, N. Y. Veterinary-surgeon's float. No. 994,483; June 6; Sp. p. 778; Gaz. vol. 167; p. 132.
Skofsrud, Anton, Chicago, Ill. Reel or winding-machine. No. 992,692; May 16; Sp. p. 3983; Gaz. vol. 166; p. 710.
Skorge, Peder, Colfax, Wis. Shoe. No. 983,518; Feb. 7; Sp. p. 557; Gaz. vol. 163; p. 89.
Skorupa, Josef, Alpha, N. J. Aeroplane. No. 990,015; Apr. 18; Sp. p. 3693; Gaz. vol. 165; p. 640.
Skorzewski, Witold von, Schloss Lubostron, near Labischin, Germany. Treating fresh vegetable matter. No. 1,003,525; Sept. 19; Sp. p. 2906; Gaz. vol. 170; p. 531.
Skouge, Belle, Forest City, Iowa. Cooking vessel. No. 1,001,778; Aug. 29; Sp. p. 5507; Gaz. vol. 169; p. 1011.
Skouses, Paul, Athens, Greece. Jet propulsion. No. 982,540; Jan. 24; Sp. p. 5216; Gaz. vol. 162; p. 900.
Skov, Soren R., and T. Scullin, Cleveland, Ohio. Passenger-car. No. 987,329; Mar. 21; Sp. p. 3322; Gaz. vol. 164; p. 596.
Skow, Andrew K., Newton, Iowa. Road-grader. No. 986,421; Mar. 7; Sp. p. 1394; Gaz. vol. 164; p. 225.
Skow, Lawrence L., and E. M. F. M. Petersen, Racine, Wis. Universal vise and work-holder. No. 983,091; Jan. 31; Sp. p. 6405; Gaz. vol. 162; p. 1113.
Skowronski, Franz and J., Ostrowo, Germany. Tomb for receiving coffins. No. 991,033; May 2; Sp. p. 429; Gaz. vol. 166; p. 74.
Skowronski, Johann. (See Skowronski, Franz and J.)
Skowronski, Stany, Ottawa, Ill. Door-latch. No. 987,021; Mar. 14; Sp. p. 2650; Gaz. vol. 164; p. 458.
Skowronski, Stany, and W. J. Parks, La Salle, Ill. Door-mat. No. 1,008,618; Nov. 14; Sp. p. 2245; Gaz. vol. 172; p. 382.
Skripec, John P., Cincinnati, Ohio. Airship. No. 1,011,256; Dec. 12; Sp. p. 1936; Gaz. vol. 173; p. 333.
Skubé, Matthias J., Pueblo, Colo. Car-stake. No. 982,308; Jan. 24; Sp. p. 4737; Gaz. vol. 162; p. 818.
Skyum, Christian E., Chicago, Ill. Scoop. No. 993,560; May 30; Sp. p. 5863; Gaz. vol. 166; p. 1069.
Slack, Alexander P., Worcester, Mass. Mop-holder. No. 988,516; Apr. 4; Sp. p. 487; Gaz. vol. 165; p. 77.
Slack, Bernard E., assignor to Medina Foundry Company, Medina, N. Y. Air-inlet for traps. No. 1,001,779; Aug. 29; Sp. p. 5509; Gaz. vol. 169; p. 1012.
Slade, George E. (See Stemm and Slade.)
Slader, Frank J., Chicago, Ill. Building up forms in printing-presses. No. 984,859; Feb. 21; Sp. p. 3471; Gaz. vol. 163; p. 613.
Slamin, Patrick H. (See Thoman and Slamin.)
Slapak, Emil, Cleveland, Ohio. Broach. No. 995,809; June 20; Sp. p. 3756; Gaz. vol. 167; p. 655.
Slapo, Isaac, New York, N. Y. Baker's-oven grate. No. 1,009,697; Nov. 21; Sp. p. 4566; Gaz. vol. 172; p. 786
Slater, Frank, New Britain, Conn. Starter for internal-combustion engines. No. 1,004,485; Sept. 26; Sp. p. 5047; Gaz. vol. 170; p. 888.
Slater, George W. (See Benham and Slater.)
Slaughter, Elmer E., Clifton, Ariz., assignor to W. L. Austin, Riverside, Cal. Extracting metal from solutions. No. 1,001,466; Aug. 22; Sp. p. 4851; Gaz. vol. 169; p. 875.
Slaughter, Harrison E., Los Angeles, Cal. Starting system for gas-engines. No. 999,894; Aug. 8; Sp. p. 1411; Gaz. vol. 169; p. 268.
Slaughter, James M. (See Hoover, Benjaman, assignor.)
Slavin, James J., Los Angeles, Cal. Airship. No. 988,039; Mar. 28; Sp. p. 4888; Gaz. vol. 164; p. 868.
Slawson, Marion G., assignor of one-fourth to C. F. Tannehill, Girard, Kans. Grain-shocker. No. 985,750; Feb. 28; Sp. p. 5427; Gaz. vol. 163; p. 952.
Slay, Frank F., and S. M. Henry, Groom, Tex. Tire-tightener. No. 985,073; Feb. 21; Sp. p. 3880; Gaz. vol. 163; p. 685.
Slaybaugh, William H., East Toledo, assignor of three-eighths to W. T. Davies, Toledo, Ohio. Drier for grain or the like. No. 997,016; July 4; Sp. p. 907; Gaz. vol. 168; p. 144.
Slaymaker Lock Corporation. (See Slaymaker and Miller, assignors.)
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Slaymaker, Samuel R., and G. M. Miller, assignors to Slaymaker Lock Corporation, Lancaster, Pa. Combined stock and display device. No. 997,154; July 4; Sp. p. 1180; Gaz. vol. 168; p. 190.
Slayton, John W., McKeesport, Pa. Tie device for wooden structures. No. 989,198; Apr. 11; Sp. p. 1893; Gaz. vol. 165; p. 329.
Sledge, Paul R., Jr., Augusta, Ga. Holder for curtain-rods. No. 1,001,467; Aug. 22; Sp. p. 4852; Gaz. vol. 169; p. 875.
Slee, Norman. (See Butler and Slee.)
Slee, Reginald G., London, England. Liquid-dispensing apparatus. No. 999,602; Aug. 1; Sp. p. 800; Gaz. vol. 169; p. 140.
Sleep, William H., Montreal, Quebec, Canada. Grain-car door. No. 1,001,468; Aug. 22; Sp. p. 4854; Gaz. vol. 169; p. 875.
Sleeper, Frank P., assignor of seven-sixteenths to J. E. Dowd, Hillsboro, N. H. Picker-stick holder and power-adjusting device. No. 1,003,526; Sept. 19; Sp. p. 2908; Gaz. vol. 170; p. 531.
Sleeper, Frederick L., Chicago, Ill. Ceramic-paint pack age. No. 1,009,449; Nov. 21; Sp. p. 4096; Gaz. vol. 172; p. 706.
Sleeper, Oliver S., assignor to Buffalo Foundry Company, Buffalo, N. Y. Vacuum drying apparatus. No. 980,444; Jan. 3; Sp. p. 555; Gaz. vol. 162; p. 93.
Sleeper, Oliver S., assignor to Buffalo Foundry & Machine Company, Buffalo, N. Y. Drier. No. 985,217; Feb. 28; Sp. p. 4243; Gaz. vol. 163; p. 769.
Sleeper, Oliver S., assignor to Buffalo Foundry and Machine Company, Buffalo, N. Y. Drier and condenser. No. 991,905; May 9; Sp. p. 2294; Gaz. vol. 166; p. 409.
Sleeper, Oliver S., assignor to Buffalo Foundry and Machine Company, Buffalo, N. Y. Drying apparatus. No. 993,892; May 30; Sp. p. 6565; Gaz. vol. 166; p. 1183.
Sleeper, Oliver S., assignor to Buffalo Foundry and Machine Company, Buffalo, N. Y. Shelf-drier. No. 999,063; July 25; Sp. p. 5404; Gaz. vol. 168; p. 962.
Sleight, William H., St. Louis, Mo. Bed-bottom fabric. No. 991,806; May 9; Sp. p. 2091; Gaz. vol. 166; p. 375.
Slentz, Albertus O., assignor to The Canton Foundry and Machine Company, Canton, Ohio. Bearing connection for shears. No. 998,210; July 18; Sp. p. 3481; Gaz. vol. 168; p. 627.
Slentz, Albertus O., assignor to The Canton Foundry & Machine Company, Canton, Ohio. Lifting-jack. No. 998,211; July 18; Sp. p. 3482; Gaz. vol. 168; p. 627.
Slentz, Albertus O., assignor to The Canton Foundry and Machine Company, Canton, Ohio. Head for lifting-jacks. No. 1,006,694; Oct. 24; Sp. p. 4701; Gaz. vol. 171; p. 837.
Slepicka, John J., Indiana Harbor, Ind. Steering-wheel for automobiles. No. 990,915; May 2; Sp. p. 186; Gaz. vol. 166; p. 34.
Slick, Edwin E. (See Dillon and Slick.)
Slick, Edwin E. (See Thorp and Slick.)
Slick, Edwin E., Pittsburg, Pa. Apparatus for rolling metal shapes. No. 982,888; Jan. 31; Sp. p. 5959; Gaz. vol. 162; p. 1045.
Slick, Edwin E., Pittsburg, Pa. Metal wheel-blank. No. 993,117; May 23; Sp. p. 4922; Gaz. vol. 166; p. 890.
Slick, Edwin E., Pittsburg, Pa. Making tapering metal poles. No. 999,267; Aug. 1; Sp. p. 145; Gaz. vol. 169; p. 27.
Slick, Edwin E., Pittsburg, Pa. Wheel construction. No. 1,001,087; Aug. 22; Sp. p. 4094; Gaz. vol. 169; p. 750.
Sliger, Leonard, Indianapolis, Ind. Damper. No. 1,000,304; Aug. 8; Sp. p. 2301; Gaz. vol. 169; p. 408.
Slimp, William L., Panhandle, Tex. Traction-engine frame and steering device. No. 993,893; May 30; Sp. p. 6569; Gaz. vol. 166; p. 1184.
Slinack, Victor H., assignor to The Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Inverted incandescent gas-light. No. 988,217; Mar. 28; Sp. p. 5223; Gaz. vol. 164; p. 926.
Slinack, Victor H., assignor to Pennsylvania Globe Gas Light Company, Philadelphia, Pa. Holder for inverted-mantle supports or carriers. No. 991,099; May 2; Sp. p. 563; Gaz. vol. 166; p. 98.
Slingluff, Eugene, assignor of one-half to E. F. Kirk, Cincinnati, Ohio. Device for cutting sleet from trolley-wires. No. 1,005,483; Oct. 10; Sp. p. 1989; Gaz. vol. 171; p. 350.
Slip Scarf Company. (See Hill, Jacob L., assignor.)
Slipp, George F., assignor to T. C. Entwistle Company, Lowell, Mass. Warp-guide. No. 1,011,507; Dec. 12; Sp. p. 2488; Gaz. vol. 173; p. 424.
Slivenick, Joe, Canton, Ohio. Lock. No. 999,127; July 25; Sp. p. 5522; Gaz. vol. 168; p. 981.
Sloan, Albert C., Salamanca, N. Y. Trolley-wheel. No. 1,006,303; Oct. 17; Sp. p. 3831; Gaz. vol. 171; p. 671.
Sloan, Alfred C., Philadelphia, Pa. Machine for collecting and destroying potato-bugs. No. 990,672; Apr. 25; Sp. p. 5201; Gaz. vol. 165; p. 897.
Sloan, Augustus K., Jr., Brooklyn, N. Y. Electrical condenser. No. 995,728; June 20; Sp. p. 3561; Gaz. vol. 167; p. 627.
Sloan, Benjamin J., Waynesville, N. C. Raking mechanism for cleaning the gratings of water-channels. No. 986,231; Mar. 7; Sp. p. 978; Gaz. vol. 164; p. 159.
Sloan, Harry, Brooklyn, N. Y., assignor, by mesne assignments, to New Jersey Patent Holding Company. Apparatus for the manufacture of plate-ice. No. 994,881; June 13; Sp. p. 1750; Gaz. vol. 167; p. 309.
Sloan, James R., Altoona, Pa. Battery vent-plug. No. 1,010,695; Dec. 5; Sp. p. 648; Gaz. vol. 173; p. 104.
Sloan, James R., Altoona, Pa. Terminal bushing for electric batteries. No. 1,012,461; Dec. 19; Sp. p. 4586; Gaz. vol. 173; p. 786.
Sloan, John H. (See Goodrich, Charles E., assignor.)
Sloan, Robert M., and Z. M. Lindley, Carthage, Mo.; said Lindley assignor to said Sloan. Rotary pump or compressor. No. 981,804; Jan. 17; Sp. p. 3611; Gaz. vol. 162; p. 614.
Sloan, William J., Pittsburgh, Pa. Globe-holder. No. 1,010,081; Nov. 28; Sp. p. 5379; Gaz. vol. 172; p. 964.
Slocum, Earl C. (See Kinne, Martin V., assignor.)
Slocum, Fred, Caro, Mich. Combination tug and hame attachment for horse-collars. No. 1,011,383; Dec. 12; Sp. p. 2215; Gaz. vol. 173; p. 378.
Sloper, Thomas, Devizes, England. Mechanism for manufacturing pneumatic tires. No. 983,408; Feb. 7; Sp. p. 319; Gaz. vol. 163; p. 54.
Sloper, Thomas, Devizes, England. Machine for manufacturing or treating lengths of cord or other material. No. 986,600; Mar. 14; Sp. p. 1792; Gaz. vol. 164; p. 317.
Sloper, Thomas, Devizes, England. Manufacture of cord fabrics. No. 993,465; May 30; Sp. p. 5651; Gaz. vol. 166; p. 1034.
Sloper, Thomas, Devizes, England. Antislipping stud. No. 1,009,191; Nov. 21; Sp. p. 3467; Gaz. vol. 172; p. 612.
Sloper, Thomas, Devizes, England. Manufacture of articles built up from lengths of cord. No. 1,009,192; Nov. 21; Sp. p. 3468; Gaz. vol. 172; p. 612.
Sly, Charles, Corpus Christi, Tex. Reamer. No. 1,011,384; Dec. 12; Sp. p. 2216; Gaz. vol. 173; p. 378.
Sly, George E., assignor to R. M. Mobius, San Diego, Cal. Silk cleaning and twisting machine. No. 995,382; June 13; Sp. p. 2790; Gaz. vol. 167; p. 475.
Slyk, Stanley, Minden, W. Va. Metallic tie and rail-fastener. No. 998,412; July 18; Sp. p. 3958; Gaz. vol. 168; p. 701.
Smaill, Alexander, Jr., Tomahawk, near Dunedin, New Zealand. Milking machinery. No. 982,161; Jan. 17; Sp. p. 4398; Gaz. vol. 162; p. 736.
Small, Henry J., San Francisco, and O. B. Schoenky, Easton, Cal. Car-roof. No. 986,093; Mar. 7; Sp. p. 720; Gaz. vol. 164; p. 115.
Smallwood, Alfred, London, England. Furnace for water-tube boilers. No. 981,699; Jan. 17; Sp. p. 3411; Gaz. vol. 162; p. 577.
Smallwood, James T., Sedalia, Mo. Oil-can. No. 989,435; Apr. 11; Sp. p. 2422; Gaz. vol. 165; p. 409.
Smardon, Arthur F., Maywood, Ill. Oil-burner. No. 1,004,824; Oct. 3; Sp. p. 587; Gaz. vol. 171; p. 97.
Smart, Walter J., New York, N. Y. Filtering device. No. 999,895; Aug. 8; Sp. p. 1413; Gaz. vol. 169; p. 269
Smart, William R. (See Monette and Smart.)
Smartt, Brinay, assignor to T. M. Steger, Nashville, Tenn. Rotary valve. No. 981,019; Jan. 10; Sp. p. 1946; Gaz. vol. 162; p. 321.
Smathers, Alpheus, Steubenville, Ohio. Rail-fastener. No. 981,487; Jan 10; Sp. p. 2981; Gaz. vol. 162; p. 484.
Smelzer, John H., Westmount, Quebec, Canada. Middlings-purifier. No. 984,307; Feb. 14; Sp. p. 2299; Gaz. vol. 163; p. 389.
Smelzer, John H., Westmount, Quebec, Canada. Gearing. No. 997,422; July 11; Sp. p. 1713; Gaz. vol. 168; p. 311.
Smenner, Frederick D., Fort Wayne, Ind. Fire-alarm. No. 981,020; Jan. 10; Sp. p. 1947; Gaz. vol. 162; p. 321.
Smiddy, Jerome J., Honolulu, Hawaii. Crushing-machine. No. 990,018; Apr. 18; Sp. p. 3700; Gaz. vol. 165; p. 641.
Smiester, William F. (See Tulley and Smiester.)
Smiley, Henry, Boston, Mass. Dado-plane. No. 984,610; Feb. 21; Sp. p. 2959; Gaz. vol. 163; p. 525.
Smiley, Henry, Boston, Mass. Dado-plane. No. 1,011,648; Dec. 12; Sp. p. 2850; Gaz. vol. 173; p. 475.
Smiley, John F., Louisville, Ky. Electric ball game. No. 988,829; Apr. 4; Sp. p. 1145; Gaz. vol. 165; p. 183.
Smiley, Luther V. (See Hagaman, Smiley, and Hall.)
Smiley, William V., Staunton, Va. Cigar-holder. No. 986,950; Mar. 14; Sp. p. 2527; Gaz. vol. 164; p. 437.
Smillie, James A., Hamilton, N. D. Sieve-cleaner. No. 1,009,348; Nov. 21; Sp. p. 3844; Gaz. vol. 172; p. 669.
Smith, Abraham, Stuart, Nebr. Puncture-closing device for pneumatic tires. No. 998,413; July 18; Sp. p. 3959; Gaz. vol. 168; p. 701.
Smith, Abraham L., assignor to M. A. Blumenberg, New York, N. Y. Spring-motor. No. 982,444; Jan. 24; Sp. p. 5022; Gaz. vol. 162; p. 867.
Smith, Adelaide, St. Marys, Ontario, Canada. Wrinkle-mask. No. 993,894; May 30; Sp. p. 6570; Gaz. vol. 166; p. 1184.
Smith, Albert, Cleveland, Ohio. Foldable plumber's stand for vises. No. 987,180; Mar. 21; Sp. p. 2998; Gaz. vol. 164; p. 545.
Smith, Albert A., Fall River, Mass. Roof. No. 986,514; Mar. 14; Sp. p. 1613; Gaz. vol. 164; p. 287.

Alphabetical list of patentees—Continued.

Smith, Albert E., assignor of one-half to L. A. Young, Detroit, Mich. Backstay-fastening device. No. 992,274; May 16; Sp. p. 3101; Gaz. vol. 166; p. 565.
Smith, Albert L. (See Minnick and Smith.)
Smith, Albert P., Winnemucca, Nev. Rotary pump. No. 1,000,305; Aug. 8; Sp. p. 2303; Gaz. vol. 169; p. 409.
Smith, Albert W., Providence, R. I., assignor, by mesne assignments, to The Columbia Motor Car Company, Hartford, Conn. Carriage-fitting. No. 1,005,484; Oct. 10; Sp. p. 1990; Gaz. vol. 171; p. 350.
Smith, Alexander C., and W. E. Rickey, Rocky, Okla. Valve-gear. No. 1,001,899; Aug. 29; Sp. p. 5784; Gaz. vol. 169; p. 1054.
Smith, Alexander F., Reading, Pa. Can-closure. No. 1,008,743; Nov. 14; Sp. p. 2522; Gaz. vol. 172; p. 425.
Smith, Allen B., assignor to Baird Manufacturing Company, Chicago, Ill. Combination-lock. No. 996,151; June 27; Sp. p. 4463; Gaz. vol. 167; p. 807.
Smith, Alonzo P. (See Trombley, George, assignor.)
Smith, Alta L., Richmond, Va. Attachment for printing-presses. No. 1,010,193; Nov. 28; Sp. p. 5589; Gaz. vol. 172; p. 1001.
Smith, Amos C. (See Cunningham and Smith.)
Smith, Anna M., Albany, N. Y. Window-screen. No. 994,279; June 6; Sp. p. 366; Gaz. vol. 167; p. 62.
Smith, Archibald, Tarentum, Pa., assignor to The Allegheny Steel Company. Producing practically pure iron. No. 1,008,377; Nov. 14; Sp. p. 1659; Gaz. vol. 172; p. 295.
Smith, Arthur B., Minneapolis, Minn. Washing-machine. No. 982,889; Jan. 31; Sp. p. 5961; Gaz. vol. 162; p. 1045.
Smith, Arthur K., and E. A. Kumming, St. Louis, Mo., assignors, by mesne assignments, to Cutler Mail Chute Company, Rochester, N. Y. Mail-box. No. 986,951; Mar. 14; Sp. p. 2528; Gaz. vol. 164; p. 437.
Smith, Arthur W., Jersey City, N. J., assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 990,306; Apr. 25; Sp. p. 4326; Gaz. vol. 165; p. 771.
Smith, Arthur W., New York, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 999,347; Aug. 1; Sp. p. 291; Gaz. vol. 169; p. 54.
Smith, Asa A., Malaga, N. J. Asparagus-harvesting tool. No. 986,773; Mar. 14; Sp. p. 2155; Gaz. vol. 164; p. 375.
Smith, Austin W., Lebanon, Ky. Animal-blanket. No 994,663; June 6; Sp. p. 1193; Gaz. vol. 167; p. 194.
Smith, Barrett, Boston, Mass. Mutoscope. No. 988,392; Apr. 4; Sp. p. 227; Gaz. vol. 165; p. 36.
Smith, Benjamin W., Lacrosse, Va. Cooking-range. No. 1,007,397; Oct. 31; Sp. p. 6255; Gaz. vol. 171; p. 1138.
Smith, Benjamin W., assignor of one-half to T. C. Neal, Montpelier, Ind. Combined air pump and cushion. No. 998,128; July 18; Sp. p. 3322; Gaz. vol. 168; p. 599.
Smith, Bernard O., Stanley, assignor to Dubuque Gasoline Engine Company, Dubuque, Iowa. Governor for explosive-engines. No. 994,206; June 6; Sp. p. 219; Gaz. vol. 167; p. 38.
Smith, Bernard P., St. Louis, Mo. Combined siphon sink-strainer and waste-pipe cleaner. No. 986,601; Mar. 14; Sp. p. 1796; Gaz. vol. 164; p. 318.
Smith, Bert J., assignor to Home Construction Company, Modesto, Cal. Thermostatic switch. No. 1,008,870; Nov. 14; Sp. p. 2775; Gaz. vol. 172; p. 467.
Smith, Birt Z., Mountain Home, Idaho. Sweat-band for hats. No. 987,501; Mar. 21; Sp. p. 3672; Gaz. vol. 164; p. 655.
Smith, Birt Z., Mountain Home, Idaho. Alarm-bell. No. 1,007,611; Oct. 31; Sp. p. 6728; Gaz. vol. 171; p. 1211.
Smith, Burl H., assignor to The Randolph Paper Box Company, Richmond, Va. Paper-box-manufacturing machine. No. 1,006,885; Oct. 24; Sp. p. 5143; Gaz. vol. 171; p. 905.
Smith Cannery Machines Co. (See Smith, Edmund A., assignor.)
Smith, Carey D., Red Level, Ala. Plow. No. 986,321; Mar. 7; Sp. p. 1174; Gaz. vol. 164; p. 190.
Smith, Carl G., Stockholm, Sweden. Machine for transporting and laying out ties in the constructing of railways. No. 989,932; Apr. 18; Sp. p. 3522; Gaz. vol. 165; p. 612.
Smith, Carl G., Stockholm, Sweden. Means for advancing and locking machines adapted to facilitate constructing and repairing railways and the like. No. 989,933; Apr. 18; Sp. p. 3525; Gaz. vol. 165; p. 612.
Smith, Carl G., Stockholm, Sweden. Machine for splitting or other working of stones and the like. No. 999,896; Aug. 8; Sp. p. 1415; Gaz. vol. 169; p. 269.
Smith, Carl G., Stockholm, and A. C. Aulin, Orsa, Sweden; said Aulin assignor to said Smith. Track-laying machine. No. 989,931; Apr. 18; Sp. p. 3519; Gaz. vol. 165; p. 611.
Smith, Carlos A., Bellaire, Ohio. Moisture collecting and conducting device for pressing-machines. No. 980,687; Jan. 3; Sp. p. 1107; Gaz. vol. 162; p. 177.
Smith, Carlos A., Bellaire, Ohio. Ironing-table for pressing-machines. No. 980,688; Jan. 3; Sp. p. 1107; Gaz. vol. 162; p. 177.
Smith, Carlos A., Bellaire, Ohio. Laundry ironing or pressing machine. No. 1,007,148; Oct. 31; Sp. p. 5725; Gaz. vol. 171; p. 1050.
Smith, Carlos A., Bellaire, Ohio. Laundry pressing-machine. No. 1,010,696; Dec. 5; Sp. p. 649; Gaz. vol. 173; p. 104.
Smith, Carlos A., Bellaire, Ohio. Laundry pressing-machine. No. 1,010,697; Dec. 5; Sp. p. 653; Gaz. vol. 173; p. 104.
Smith, Cecil H., U. S. Navy. Spark-plug. No. 1,007,806; Nov. 7; Sp. p. 356; Gaz. vol. 172; p. 56.
Smith, Charles. (See Olander, Arvid, assignor.)
Smith, Charles E. (See Fulton, William, assignor.)
Smith, Charles E., Oak Lawn, R. I. Machine for packaging metallic leaf in rolls. No. 981,700; Jan. 17; Sp. p. 3412; Gaz. vol. 162; p. 577.
Smith, Charles E., New York, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 980,689; Jan. 3; Sp. p. 1109; Gaz. vol. 162; p. 177.
Smith, Charles E., New York, assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,012,925; Dec. 26; Sp. p. 5631; Gaz. vol. 173; p. 991.
Smith, Charles F., assignor to Landers, Frary & Clark, New Britain, Conn. Percolator-cover. No. 980,352; Jan. 3; Sp. p. 340; Gaz. vol. 162; p. 62.
Smith, Charles F., Bridgeport, Conn., assignor to McCallum Hosiery Company, Northampton, Mass. Tag-machine. No. 986,232; Mar. 7; Sp. p. 982; Gaz. vol. 164; p. 160.
Smith, Charles H. (See Akers, Gus A., assignor.)
Smith, Charles H., Chicago, Ill. Bracket. No. 990,399; Apr. 25; Sp. p. 4559; Gaz. vol. 165; p. 804.
Smith, Charles H., Clifton Forge, Va. Brake-shoe. No. 1,004,596; Oct. 3; Sp. p. 104; Gaz. vol. 171; p. 18.
Smith, Charles H., Rockwood, Ill. Apparatus for priming automobile-engines. No. 1,011,257; Dec. 12; Sp. p. 1939; Gaz. vol. 173; p. 334.
Smith, Charles H., assignor to The Mantle Lamp Company of America, Chicago, Ill. Burner for incandescent vapor gas-lamps. No. 987,022; Mar. 14; Sp. p. 2651; Gaz. vol. 164; p. 458.
Smith, Charles H., assignor to The Mantle Lamp Company of America, Chicago, Ill. Combined mantle-cap and burner-cone for incandescent vapor gas-lamps. No. 988,902; Apr. 4; Sp. p. 1277; Gaz. vol. 165; p. 205.
Smith, Charles H., and A. L. Goddard; said Goddard assignor, by mesne assignments, of one-fourth to W. M. Lawton and one-fourth to W. B. Taylor, Rockford, Ill. Engine-starter. No. 989,934; Apr. 18; Sp. p. 3528; Gaz. vol. 165; p. 613.
Smith, Charles L., New York, N. Y., and A. O. Gullberg, Arlington, N. J. Calipering device for sheet-gathering machines. No. 997,334; July 11; Sp. p. 1559; Gaz. vol. 168; p. 282.
Smith, Charles P. (See Pickens and Shepard, assignors.)
Smith, Charles R., and C. L. Spencer, Camden, N. J. Combination-lock. No. 987,265; Mar. 21; Sp. p. 3186; Gaz. vol. 164; p. 576.
Smith, Charles S., Providence, R. I. Buttonhole-piece. No. 991,034; May 2; Sp. p. 430; Gaz. vol. 166; p. 74.
Smith, Charles S., Berkeley, Cal. Impregnating wood. No. 992,918; May 23; Sp. p. 4479; Gaz. vol. 166; p. 821.
Smith, Charles W., Larimore, N. D. Life-buoy. No. 988,830; Apr. 4; Sp. p. 1147; Gaz. vol. 165; p. 183.
Smith, Charles W., Berlin, Wis. Machine for picking feathers from fowls. No. 1,006,304; Oct. 17; Sp. p. 3832; Gaz. vol. 171; p. 671.
Smith, Charles W., North Baltimore, Ohio. Railway-tie. No. 1,006,695; Oct. 24; Sp. p. 4703; Gaz. vol. 171; p. 837.
Smith, Charles W., assignor of one-fourth to E. E. De Armond and one-fourth to A. M. De Armond, Deepwater, Mo. Slide-valve adjuster. No. 997,098; July 4; Sp. p. 1062; Gaz. vol. 168; p. 171.
Smith, Charls F., Haynesville, La. Well-cleaner. No. 999,603; Aug. 1; Sp. p. 802; Gaz. vol. 169; p. 140.
Smith, Chester J., Jamestown, assignor to National Calculator Company, New York, N. Y. Calculating device. No. 998,414; July 18; Sp. p. 3960; Gaz. vol. 168; p. 702.
Smith, Christian N., Elgin, Ill., assignor, by mesne assignments, of two-thirds to J. A. Haben and C. W. Armbruster. Rotary web-printing press. No. 1,011,508; Dec. 12; Sp. p. 2489; Gaz. vol. 173; p. 424.
Smith, Clarence E., and E. N. Humphrey, assignors to The Traut & Hine Manufacturing Company, New Britain, Conn. Safety-razor. No. 1,008,929; Nov. 14; Sp. p. 2894; Gaz. vol. 172; p. 485.
Smith, Clark J., assignor to The Hardsocg Wonder Drill Company, Ottumwa, Iowa. Riveting and calking machine. No. 1,003,012; Sept. 12; Sp. p. 1840; Gaz. vol. 170; p. 319.
Smith, Claud W., and W. J. Boerger, Toledo, Ohio. Detachable rail-cushion and fastening for railway-ties. No. 1,006,696; Oct. 24; Sp. p. 4703; Gaz. vol. 171; p. 837.
Smith, Claude B., *et al.* (See Renwick, Victor D., Jr., assignor.)
Smith, Claude R., Dayton, assignor to A. L. Herkenhoff, Minster, Ohio. Suction-pump. No. 983,253; Jan. 31; Sp. p. 6727; Gaz. vol. 162; p. 1166.
Smith, Clement, Topeka, Kans. Carbureter. No. 995,919; June 20; Sp. p. 3987; Gaz. vol. 167; p. 692.

Smith, Columbus, Cameron, Tex. Churn. No. 995,101; June 13; Sp. p. 2205; Gaz. vol. 167; p. 383.
Smith & Coventry. (See Coventry, Theodore, assignor.)
Smith, Daniel A., Drummond, Md., and J. P. Mann, assignors to District of Columbia Paper Manufacturing Company, Washington, D. C. Paper-making machine. No. 992,693; May 16; Sp. p. 3985; Gaz. vol. 166; p. 711.
Smith, Daniel A., Drummond, Md., and J. P. Mann, assignors to District of Columbia Paper Manufacturing Company, Washington, D. C. Making paper. No. 992,694; May 16; Sp. p. 3987; Gaz. vol. 166; p. 711.
Smith, Daniel A., Drummond, Md., and J. P. Mann, assignors to District of Columbia Paper Manufacturing Company, Washington, D. C. Paper-making machine. No. 992,695; May 16; Sp. p. 3989; Gaz. vol. 166; p. 712.
Smith, Daniel C., Berkeley, Cal. Shoe-sole clamp. No. 982,541; Jan. 24; Sp. p. 5219; Gaz. vol. 162; p. 900.
Smith, Datus C., Blanchard, N. D. Wire-fence machine. No. 989,199; Apr. 11; Sp. p. 1895; Gaz. vol. 165; p. 329.
Smith, David, Deverre, Nebr. Flying-machine. No. 985,849; Mar. 7; Sp. p. 193; Gaz. vol. 164; p. 31.
Smith, David B., Mount Healthy, Ohio. Cement-brick machine. No. 991,553; May 9; Sp. p. 1564; Gaz. vol. 166; p. 289.
Smith, De Wane B., Deerfield, N. Y. Sprayer. No. 1,000,447; Aug. 15; Sp. p. 2637; Gaz. vol. 169; p. 490.
Smith, Dempster M., Washington, D. C. Change-speed gearing. No. 983,864; Feb. 7; Sp. p. 1309; Gaz. vol. 163; p. 208.
Smith, Donald I. (See Bendle, Smith, and Thorne.)
Smith, Dora, Winchester, Ind. Fence-post. No. 989,436; Apr. 11; Sp. p. 2424; Gaz. vol. 165; p. 409.
Smith, Drew, Kellerman, Ala. Nut-lock. No. 981,321; Jan. 10; Sp. p. 2627; Gaz. vol. 162; p. 427.
Smith, Drum & Company. (See Skitt and Drum, assignors.)
Smith, E. Z., *et al.* (See Purdy and Miller, assignors.)
Smith, Earl C., Greenup, Ky. Railway mail deliverer and receiver. No. 995,577; June 20; Sp. p. 3237; Gaz. vol. 167; p. 572.
Smith, Earl D., Delphi, Ind. Puzzle. No. 1,012,462; Dec. 19; Sp. p. 4586; Gaz. vol. 173; p. 786.
Smith, Earl K., Tonopah, Nev. Rock-drill extractor. No. 1,007,248; Oct. 31; Sp. p. 5946; Gaz. vol. 171; p. 1085.
Smith, Edgar L., assignor of one-half to J. W. Fleck, Boston, Mass. Device for mounting photographic prints, &c. No. 987,756; Mar. 28; Sp. p. 4216; Gaz. vol. 164; p. 770.
Smith, Edgar M., New York, N. Y., assignor to O. R. Barnett, Chicago, Ill. Anticreeping device for rails. No. 981,322; Jan. 10; Sp. p. 2628; Gaz. vol. 162; p. 428.
Smith, Edgar M., New York, N. Y., assignor to O. R. Barnett, Chicago, Ill. Anticreeping device for rails. No. 981,323; Jan. 10; Sp. p. 2629; Gaz. vol. 162; p. 428.
Smith, Edgar M., New York, N. Y., assignor to O. R. Barnett, Chicago, Ill. Anticreeping device for rails. No. 983,942; Feb. 14; Sp. p. 1498; Gaz. vol. 163; p. 264.
Smith, Edgar M., New York, N. Y., assignor to O. R. Barnett, Chicago, Ill. Anticreeping device for rails. No. 987,181; Mar. 21; Sp. p. 2999; Gaz. vol. 164; p. 545.
Smith, Edgar S., Sharon, Pa., assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Forged-steel fulcrum. No. 982,445; Jan. 24; Sp. p. 5024; Gaz. vol. 162; p. 868.
Smith, Edmund A., assignor to Smith Cannery Machines Co., Seattle, Wash. Fish-dressing machine. No. 998,129; July 18; Sp. p. 3324; Gaz. vol. 168; p. 599.
Smith, Edward A., Loveland, Colo. Beet-puller. No. 1,011,867; Dec. 12; Sp. p. 3291; Gaz. vol. 173; p. 547.
Smith, Edward C., Chicago, Ill. Anchoring device or bolt. No. 1,003,527; Sept. 19; Sp. p. 2909; Gaz. vol. 170; p. 531.
Smith, Edward C., San Diego, Cal. Gravity-feed emergency device for motor-vehicles. No. 1,009,193; Nov. 21; Sp. p. 3471; Gaz. vol. 172; p. 613.
Smith, Edward C., and E. L. Marshall, Fremont, assignors to National Carbon Company, Cleveland, Ohio. Galvanic battery. No. 1,011,258; Dec. 12; Sp. p. 1941; Gaz. vol. 173; p. 334.
Smith, Edward H., Aberdeen, Wash. Lamp-regulator. No. 997,155; July 4; Sp. p. 1181; Gaz. vol. 168; p. 191.
Smith, Edward H., Aberdeen, Wash., assignor of one-half to H. C. Inenfeldt, Menomonie, Wis. Adjustable alligator-wrench. No. 997,156; July 4; Sp. p. 1183; Gaz. vol. 168; p. 191.
Smith, Edward H., assignor of one-half to E. Siese, Aberdeen, Wash. Chair. No. 1,008,744; Nov. 14; Sp. p. 2522; Gaz. vol. 172; p. 425.
Smith, Edward J., *et al.* (See Smith, George H., assignor.)
Smith, Edward S., assignor to G. W. Ladley, Indianapolis, Ind. Compressing-machine. No. 991,035; May 2; Sp. p. 431; Gaz. vol. 166; p. 74.
Smith, Edwin B., *et al.* (See Smith, Felix J., assignor.)
Smith, Edwin F., Burdett, N. Y. Veneer-drier. No. 1,008,211; Nov. 7; Sp. p. 1209; Gaz. vol. 172; p. 198.
Smith, Edwin F., Burdett, N. Y. Veneer-drier. (Reissue.) No. 13,341; Dec. 19; Sp. p. 4823; Gaz. vol. 173; p. 828.
Smith, Edwin R., Buffalo, N. Y. Meat-cutting machine. No. 997,017; July 4; Sp. p. 910; Gaz. vol. 168; p. 144.
Smith, Egbert B. (See Wolf and Smith.)
Smith, Elias A. C., Baltimore, Md., assignor to Peirce-Smith Converter Company. Converter-twyer. No. 1,007,149; Oct. 31; Sp. p. 5730; Gaz. vol. 171; p. 1050.
Smith, Elmer H. (See Smith, John W. and E. H.)
Smith, Enoch, Salt Lake City, Utah. Loading-machine. No. 993,418; May 30; Sp. p. 5554; Gaz. vol. 166; p. 1020.
Smith, Ernest, and A. Nelson, Palacios, Tex. Display-cabinet. No. 993,895; May 30; Sp. p. 6571; Gaz. vol. 166; p. 1184.
Smith, Ernest W. (See King, Henry K., assignor.)
Smith, Estus K. (See Smith, Otis M. L. and E. K.)
Smith, Eugene, Philadelphia, Pa. Wax-pot for shoe-sewing machines. No. 984,446; Feb. 14; Sp. p. 2561; Gaz. vol. 163; p. 434.
Smith, Eugene C. and V. E., Providence, R. I. Sealing material for bottles and the like. No. 983,319; Feb. 7; Sp. p. 135; Gaz. vol. 163; p. 24.
Smith, Eugene P., Warren, Pa., assignor to N. S. Chalkley, Drewrys Bluff, Va. Match safe, igniter, and cigar-cutter. No. 1,008,994; Nov. 14; Sp. p. 3048; Gaz. vol. 172; p. 506.
Smith, Eugene R., Menlo, Kans. Music-leaf turner. No. 1,012,732; Dec. 26; Sp. p. 5172; Gaz. vol. 173; p. 926.
Smith, Ezra B., Chicago, Ill. Adjustable curtain-fixture. No. 994,794; June 13; Sp. p. 1518; Gaz. vol. 167; p. 279.
Smith, Ezra B., Chicago, Ill. Adjustable curtain-fixture. No. 1,008,378; Nov. 14; Sp. p. 1660; Gaz. vol. 172; p. 295.
Smith, Ezra S., Attleboro, Mass., assignor to R. F. Simmons Company. Cigar-cutter. No. 1,010,815; Dec. 5; Sp. p. 919; Gaz. vol. 173; p. 144.
Smith, Felix J., Lindsey, assignor of one-third to E. B. Smith and one-third to V. Ernsberger, Fremont, Ohio. Mixing-machine. No. 995,920; June 20; Sp. p. 3989; Gaz. vol. 167; p. 693.
Smith, Forrest. (See McPherson and Smith.)
Smith, Frank. (See Joseph, Larsen, and Smith.)
Smith, Frank, *et al.* (See McClendon, George E., assignor.)
Smith, Frank E., San Bruno, Cal. Waterproof lock-seam for roofing-paper. No. 984,860; Feb. 21; Sp. p. 3472; Gaz. vol. 163; p. 613.
Smith, Frank E., Lestershire, N. Y. Angle-gage for squares. No. 1,001,316; Aug. 22; Sp. p. 4562; Gaz. vol. 169; p. 826.
Smith, Frank L., Chicago, Ill., and T. B. Williams, Orange, Mass. Plug and gate valve. No. 982,446; Jan. 24; Sp. p. 5026; Gaz. vol. 162; p. 868.
Smith, Frank L., Chicago, Ill., and T. B. Williams, Orange, Mass., assignors to The Leavitt Machine Company. Rotary scraper. No. 1,012,926; Dec. 26; Sp. p. 5636; Gaz. vol. 173; p. 992.
Smith, Frank M., New York, N. Y. Refrigerator. No. 1,005,343; Oct. 10; Sp. p. 1691; Gaz. vol. 171; p. 302.
Smith, Frank P., Baypoint, Cal. Dresser for band-saws. No. 1,002,769; Sept. 5; Sp. p. 1309; Gaz. vol. 170; p. 197.
Smith, Frank V., Floriston, Cal. Magnetic vibrator. No. 994,957; June 13; Sp. p. 1906; Gaz. vol. 167; p. 335.
Smith, Frank W., *et al.* (See McCoy, Walter E., assignor.)
Smith, Frank W. (See Swallow and McCoy, assignors.)
Smith, Franklin E. (See Coe, John B., assignor.)
Smith, Franklin P. (See McClure, Edward, assignor.)
Smith, Fred A. (See Cronenwett and Smith.)
Smith, Frederick, Philadelphia, Pa. Railway-switch. No. 1,011,086; Dec. 5; Sp. p. 1501; Gaz. vol. 173; p. 238.
Smith, Frederick, Philadelphia, Pa. Railway-switch. No. 1,011,087; Dec. 5; Sp. p. 1506; Gaz. vol. 173; p. 238.
Smith, Frederick H., assignor to New Eccles Rubber Works Limited, Eccles, England. Machine for making hollow india-rubber balls. No. 1,004,096; Sept. 26; Sp. p. 4238; Gaz. vol. 170; p. 755.
Smith and Furbush Machine Company. (See Booth, James, assignor.)
Smith & Furbush Machine Company. (See Hill, Robert J., assignor.)
Smith, Gary B., Chicago, Ill. Interlocking-hook fabric. No. 981,888; Jan. 17; Sp. p. 3803; Gaz. vol. 162; p. 644.
Smith, George E., Coalinga, Cal. Trussed walking-beam. No. 992,389; May 16; Sp. p. 3371; Gaz. vol. 166; p. 607.
Smith, George F., Covington, Va. Paint compound. No. 992,609; May 16; Sp. p. 3835; Gaz. vol. 166; p. 683.
Smith, George G., St. Albans, Vt. Extracting hops. No. 992,275; May 16; Sp. p. 3103; Gaz. vol. 166; p. 565.
Smith, George H. (See McDonald, Patrick J., assignor.)
Smith, George H., Bridgeport, Conn. Shoe-upper. No. 983,576; Feb. 7; Sp. p. 701; Gaz. vol. 163; p. 109.
Smith, George H., Nutley, N. J., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 993,725; May 30; Sp. p. 6236; Gaz. vol. 166; p. 1127.
Smith, George H., Janesville, Wis., assignor of one-fourth to E. J. Smith, Chicago, Ill., and one-fourth to J. M. Connors, Janesville, Wis. Vehicle-top. No. 1,009,999; Nov. 28; Sp. p. 5204; Gaz. vol. 172; p. 934.
Smith, George K., R. Russell, Albany, J. Anderson, Jr., and H. Grimes, Newcomb, N. Y. Road scraper and grader. No. 982,309; Jan. 24; Sp. p. 4733; Gaz. vol. 162; p. 818.

Smith, George P., New York, N. Y. Railway-rail. No. 987,835; Mar. 28; Sp. p. 4388; Gaz. vol. 164; p. 798.
Smith, George R., assignor of one-half to J. P. Ryan, Chicago, Ill. Printer's tie-up. No. 984,976; Feb. 21; Sp. p. 3689; Gaz. vol. 163; p. 651.
Smith, George T., assignor, by mesne assignments, to George T. Smith Purifying Company, St. Louis, Mo. Bolting-machine. No. 984,041; Feb. 14; Sp. p. 1723; Gaz. vol. 163; p. 297.
Smith, George T., assignor to George T. Smith Middlings Purifier Company, Springfield, Mo. Purifier. No. 994,280; June 6; Sp. p. 368; Gaz. vol. 167; p. 63.
Smith, George W., New Brighton, Pa. Truck. No. 992,276; May 16; Sp. p. 3105; Gaz. vol. 166; p. 565.
Smith, George W., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Milling-machine. No. 991,100; May 2; Sp. p. 564; Gaz. vol. 166; p. 98.
Smith, George W., and J. Gary, Conemaugh, Pa. Fan. No. 1,011,259; Dec. 12; Sp. p. 1942; Gaz. vol. 173; p. 334.
Smith, Gertrude, Valdosta, Ga. Strainer. No. 981,805; Jan. 17; Sp. p. 3617; Gaz. vol. 162; p. 614.
Smith, Godfrey L., Newport News, Va. Pipe, sewer, and conduit. No. 1,008,745; Nov. 14; Sp. p. 2523; Gaz. vol. 172; p. 425.
Smith, Grant M., *et al.* (See Thomas, Albert H., assignor.)
Smith, Greene, Spokane, Wash. Disk harrow. No. 1,011,385; Dec. 12; Sp. p. 2218; Gaz. vol. 173; p. 378.
Smith, Gustavus F., New Berlin, Ohio. Steering and controlling mechanism for motor-vehicles. No. 1,010,082; Nov. 28; Sp. p. 5380; Gaz. vol. 172; p. 964.
Smith, H. Bridgman. (See De Lacy, Thomas H., assignor.)
Smith, H. J. (See Allsup, Ralph W., assignor.)
Smith, Harold B., Worcester, Mass., assignor to Westinghouse Electric and Manufacturing Company. Apparatus for transforming electrical energy into mechanical energy. No. 993,561; May 30; Sp. p. 5865; Gaz. vol. 166; p. 1069.
Smith, Harry E. (See McDuffee and Murray, assignors.)
Smith, Harry E., and N. H. Beebe, assignors to Advance Broom and Manufacturing Company, Wichita, Kans. Broom-making machine. No. 990,072; Apr. 18; Sp. p. 3799; Gaz. vol. 165; p. 658.
Smith, Harry G. (See Utterback, Galbraith, and Smith.)
Smith, Harry H., Brooklyn, N. Y. Telegraphic dot-transmitter. No. 982,638; Jan. 24; Sp. p. 5397; Gaz. vol. 162; p. 931.
Smith, Harry H., Joplin, Mo. Saddle and post clamp. No. 999,897; Aug. 8; Sp. p. 1418; Gaz. vol. 169; p. 270.
Smith, Harry K., Federalsburg, Md. Device for applying liquid solder. No. 989,818; Apr. 18; Sp. p. 3280; Gaz. vol. 165; p. 573.
Smith, Harry V. (See Bailey, Adam N., assignor.)
Smith, Harry W., North Grafton, Mass., assignor to Crompton & Knowles Loom Works. Filling-replenishing mechanism for looms. No. 1,003,528; Sept. 19; Sp. p. 2911; Gaz. vol. 170; p. 532.
Smith, Harvey H., Columbus, Ohio. Lock-washer. No. 1,008,084; Nov. 7; Sp. p. 936; Gaz. vol. 172; p. 151.
Smith & Hemenway Company. (See Kuhl, Burchard, assignor.)
Smith, Henry, Listowel, Ontario, Canada. Combined riding harrow and cultivator. No. 984,042; Feb. 14; Sp. p. 1725; Gaz. vol. 163; p. 297.
Smith, Henry, and R. Whitfield, Thomasville, Ga. Cutter-bar. No. 985,948; Mar. 7; Sp. p. 410; Gaz. vol. 164; p. 65.
Smith, Henry A., assignor of one-fourth to C. C. Hudson and one-sixth to A. I. V. Wilson, Atlanta, Ga. Coin-drawer. No. 1,005,662; Oct. 10; Sp. p. 2410; Gaz. vol. 171; p. 414.
Smith, Henry L., Schenectady, N. Y., assignor to General Electric Company. Solenoid-operated switch. No. 982,100; Jan. 17; Sp. p. 4296; Gaz. vol. 162; p. 716.
Smith, Henry L., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic control system. No. 998,647; July 25; Sp. p. 4461; Gaz. vol. 168; p. 815.
Smith, Henry M., Gladbrook, Iowa. Nut-lock. No. 982,392; Jan. 24; Sp. p. 4896; Gaz. vol. 162; p. 848.
Smith, Herbert E., Westminster, England. Apparatus for the production of water-gas. No. 984,447; Feb. 14; Sp. p. 2562; Gaz. vol. 163; p. 434.
Smith, Herbert E., Haverhill, assignor to Pike Manufacturing Company, Pike, N. H. Sharpening device. No. 997,865; July 11; Sp. p. 2707; Gaz. vol. 168; p. 464.
Smith, Herbert G., Bartlesville, Okla. Pumping-jack. No. 992,075; May 9; Sp. p. 2615; Gaz. vol. 166; p. 465.
Smith, Herbert H. (See Batchelor and Smith.)
Smith, Herbert L., Clinton, assignor to Clinton Wire Cloth Company, Boston, Mass. Reinforced I-beam. No. 992,994; May 23; Sp. p. 4646; Gaz. vol. 166; p. 848.
Smith, Holland O., Bellefontaine, Ohio. Grease-cup. No. 993,896; May 30; Sp. p. 6572; Gaz. vol. 166; p. 1184.
Smith, Horace M., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Filling-machine. No. 980,445; Jan. 3; Sp. p. 565; Gaz. vol. 162; p. 94.
Smith, Horace M., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Filling-machine. No. 980,446; Jan. 3; Sp. p. 567; Gaz. vol. 162; p. 94.
Smith, Horace M., assignor to The Liquid Carbonic Company, Chicago, Ill. Carbonating apparatus. No. 980,447; Jan. 3; Sp. p. 570; Gaz. vol. 162; p. 95.
Smith, Howard R., Washington, Pa. Thermometer-case. No. 1,008,746; Nov. 14; Sp. p. 2526; Gaz. vol. 172; p. 425.
Smith, Irving B., assignor, by mesne assignments, to Electrelle Company, Philadelphia, Pa. Music-roll holder. No. 1,008,440; Nov. 14; Sp. p. 1836; Gaz. vol. 172; p. 317.
Smith, Irving J., New York, N. Y., assignor to I. J. Smith Mfg. Co. Overhead washer. No. 980,353; Jan. 3; Sp. p. 341; Gaz. vol. 162; p. 62.
Smith, J. Jerome, *et al.* (See Senn, Carl, assignor.)
Smith, Jackob, Los Angeles, Cal. Wave-motor. No. 1,009,592; Nov. 21; Sp. p. 4371; Gaz. vol. 172; p. 753.
Smith, James, Reliance, S. D. Rail-brace. No. 1,004,701; Oct. 3; Sp. p. 321; Gaz. vol. 171; p. 55.
Smith, James B., Dallas, Tex. Level. No. 987,182; Mar. 21; Sp. p. 3000; Gaz. vol. 164; p. 545.
Smith, James E., Clinton, Iowa, assignor to National Peat Products & Chemical Company. Grit for poultry. No. 996,289; June 27; Sp. p. 4811; Gaz. vol. 167; p. 853.
Smith, James J., New York, N. Y. Stone-sawing machine. No. 985,465; Feb. 28; Sp. p. 4807; Gaz. vol. 163; p. 854.
Smith, James M., and H. A. Knoener, East Orange, assignors to Crocker-Wheeler Company, Ampere, N. J. Brush-holder for dynamo-electric machines. No. 990,461; Apr. 25; Sp. p. 4697; Gaz. vol. 165; p. 826.
Smith, James T., Newark, N. J. Manufacturing leather. No. 985,466; Feb. 28; Sp. p. 4809; Gaz. vol. 163; p. 854.
Smith, James T., Newark, N. J. Table for setting out leather. No. 1,003,529; Sept. 19; Sp. p. 2913; Gaz. vol. 170; p. 532.
Smith, Jessie E., Fayetteville, Tenn. Scraper. No. 988,601; Apr. 4; Sp. p. 671; Gaz. vol. 165; p. 108.
Smith, Joel A., Chicago, Ill. Transparent knockdown minnow-trap. No. 985,949; Mar. 7; Sp. p. 411; Gaz. vol. 164; p. 66.
Smith, John. (See Thompson, Thomas, assignor.)
Smith, John, Birmingham, England. Rotary pump for machine-tools and other purposes. No. 1,007,742; Nov. 7; Sp. p. 199; Gaz. vol. 172; p. 32.
Smith, John, Bingham, Utah. Adjustable cushion. No. 1,007,985; Nov. 7; Sp. p. 745; Gaz. vol. 172; p. 117.
Smith, John A., Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Combined typewriting and calculating machine. No. 1,001,698; Aug. 29; Sp. p. 5334; Gaz. vol. 169; p. 985.
Smith, John A., Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Register for adding-machines. No. 1,012,463; Dec. 19; Sp. p. 4588; Gaz. vol. 173; p. 786.
Smith, John E., Kansas City, Kans. Rotary motor. No. 1,011,509; Dec. 12; Sp. p. 2494; Gaz. vol. 173; p. 424.
Smith, John E., Baltimore, Md., assignor to American Can Company, New York, N. Y. Soldering-machine. No. 1,002,326; Sept. 5; Sp. p. 325; Gaz. vol. 170; p. 46.
Smith, John F. (See Hudson and Smith.)
Smith, John F., Jersey City, N. J. Resilient ambulance-cot and stretcher. No. 1,002,005; Aug. 29; Sp. p. 6014; Gaz. vol. 169; p. 1088.
Smith, John G., *et al.* (See Ginivin, John P., assignor.)
Smith, John G., Philadelphia, Pa. Wagon-chute. No. 1,010,194; Nov. 28; Sp. p. 5593; Gaz. vol. 172; p. 1002.
Smith, John H. (See Davis and Smith.)
Smith, John J., West Hoboken, N. J. Feed-measuring apparatus. No. 998,994; July 25; Sp. p. 5264; Gaz. vol. 168; p. 937.
Smith, John K., Walthill, Nebr. Railway splice-bar. No. 998,415; July 18; Sp. p. 3964; Gaz. vol. 168; p. 702.
Smith, John K., Santa Rosa, Cal. Dust-protector and packing device for automobiles. No. 999,620; Aug. 1; Sp. p. 834; Gaz. vol. 169; p. 146.
Smith, John M., Poplarville, Miss. Oar-lock. No. 986,774; Mar. 14; Sp. p. 2157; Gaz. vol. 164; p. 376.
Smith, John P. (See Palmer and Smith.)
Smith, John R., *et al.* (See Davis, Clawson, assignor.)
Smith, John T., Quitman, Tex. Bridle-bit. No. 1,012,464; Dec. 19; Sp. p. 4592; Gaz. vol. 173; p. 787.
Smith, John W., administrator, *et al.* (See Howe, Arthur L., assignor.)
Smith, John W., Chicago, Ill. Vacuum-cleaner. No. 995,299; June 13; Sp. p. 2580; Gaz. vol. 167; p. 447.
Smith, John W., Muskogee, Okla. Corn-husking machine. No. 999,128; July 25; Sp. p. 5523; Gaz. vol. 168; p. 982.
Smith, John W., Dayton, Ohio. Knockdown trestle. No. 1,010,458; Dec. 5; Sp. p. 104; Gaz. vol. 173; p. 21.
Smith, John W., Derry, N. H. Flexible shoe. No. 1,012,733; Dec. 26; Sp. p. 5174; Gaz. vol. 173; p. 927.
Smith, John W. and E. H., Minneapolis, Minn. Valve. No. 987,757; Mar. 28; Sp. p. 4218; Gaz. vol. 164; p. 770.
Smith, Joseph C., Forest City, Iowa. Gate-latch. No 997,335; July 11; Sp. p. 1561; Gaz. vol. 168; p. 283.
Smith, Joseph H., Ringston Station, Nova Scotia, Canada. Propeller. No. 985,378; Feb. 28; Sp. p. 4586; Gaz. vol. 163; p. 822.
Smith, Joseph S., *et al.* (See Davis, Clawson, assignor.)

Alphabetical list of patentees—Continued.

Smith, Judd, Minneapolis, Minn., assignor to United Roofing and Manufacturing Company, Philadelphia, Pa. Waterproof floor-covering. No. 1,008,296; Nov. 7; Sp. p. 1410; Gaz. vol. 172; p. 228.
Smith, Julius, and F. N. Lovejoy, Macedon, N. Y. Track-layer for steam-shovels. No. 1,001,317; Aug. 22; Sp. p. 4564; Gaz. vol. 169; p. 826.
Smith, Justus J., New York, N. Y. Window construction. No. 984,611; Feb. 21; Sp. p. 2961; Gaz. vol. 163; p. 525.
Smith, Kenneth R., Totnes, England. Acid-proof electric-battery terminal. No. 1,006,697; Oct. 24; Sp. p. 4704; Gaz. vol. 171; p. 838.
Smith, Laurence, and G. D. Mullihan, Webb City, Mo. Boiler-cleaning device. No. 981,701; Jan. 17; Sp. p. 3414; Gaz. vol. 162; p. 577.
Smith, Lawrence M., Chicago, Ill. Apparatus for treating type. No. 1,012,285; Dec. 19; Sp. p. 4244; Gaz. vol. 173; p. 728.
Smith, Leo, assignor to F. S. Betz, Hammond, Ind. Dental chair. No. 983,780; Feb. 7; Sp. p. 1117; Gaz. vol. 163; p. 179.
Smith, Leon. (See Painter, Jacob A., assignor.)
Smith, Lester C., Rome, N. Y., assignor to Coe Brass Manufacturing Company, Torrington, Conn. Wire-drawing machine. No. 980,569; Jan. 3; Sp. p. 854; Gaz. vol. 162; p. 137.
Smith, Lionel P., Covington, Ky., and J. Cantor, Cincinnati, Ohio. Soldering device. No. 1,004,922; Oct. 3; Sp. p. 816; Gaz. vol. 171; p. 132.
Smith, Lloyd J., administrator. (See Cotton and Henderson.)
Smith, Lucius A., Kansas City, Mo. Face mask or bandage. No. 1,013,079; Dec. 26; Sp. p. 5966; Gaz. vol. 173; p. 1045.
Smith, Luke A., Los Angeles, Cal. Attachment for cooking utensils. No. 987,923; Mar. 28; Sp. p. 4603; Gaz. vol. 164; p. 828.
Smith, Luke P. N., Portsmouth, Ohio. Antislipping attachment for horseshoes. No. 1,001,318; Aug. 22; Sp. p. 4568; Gaz. vol. 169; p. 826.
Smith, Lyle C., Grand Rapids, Mich. Clothes-wringer. No. 992,076; May 9; Sp. p. 2617; Gaz. vol. 166; p. 466.
Smith, Lyman C. (See Ferguson, Arthur C., assignor.)
Smith Manufacturing Company. (See Fitzgerald, Jeremiah C., assignor.)
Smith, Mark H., assignor to Korff Manufacturing Company, Lansing, Mich. Sink-bracket. No. 1,004,597; Oct. 3; Sp. p. 105; Gaz. vol. 171; p. 18.
Smith, Martin W., Somerville, Mass. Shutter-worker. No. 993,118; May 23; Sp. p. 4924; Gaz. vol. 166; p. 891.
Smith, Marvin E., Hazel Green, Wis. Folding pocket-dividers. No. 1,007,807; Nov. 7; Sp. p. 358; Gaz. vol. 172; p. 56.
Smith, Mary H., Syracuse, N. Y. Combined buffer-nipple and filter for water-faucets. No. 981,702; Jan. 17; Sp. p. 3414; Gaz. vol. 162; p. 577.
Smith, Mary O., Auburn, Me. Megaphone. No. 999,408; Aug. 1; Sp. p. 424; Gaz. vol. 169; p. 75.
Smith, Matthew F., Ransom, Ky. Miner's safety-lamp. No. 1,011,868; Dec. 12; Sp. p. 3293; Gaz. vol. 173; p. 547.
Smith, Milton D., Siler City, N. C. Bending-machine. No. 996,152; June 27; Sp. p. 4464; Gaz. vol. 167; p. 807.
Smith, Newell C. (See Clarke, Charles E., assignor.)
Smith, Octavius A. M., Westmount, Quebec, Canada. Keyboard for musical instruments. No. 1,009,194; Nov. 21; Sp. p. 3473; Gaz. vol. 172; p. 613.
Smith, Oma, Three Rivers, Mich. Drinking-fountain. No. 986,775; Mar. 14; Sp. p. 2158; Gaz. vol. 164; p. 376.
Smith, Orbin F., Ottumwa, Iowa, assignor, by mesne assignments, to La Crosse Hay Tool Company, La Crosse, Wis. Hay-loader. No. 985,218; Feb. 28; Sp. p. 4245; Gaz. vol. 163; p. 769.
Smith, Oscar, Glen Haven, Wis. Bit. No. 981,488; Jan. 10; Sp. p. 2982; Gaz. vol. 162; p. 485.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Tapping-machine. No. 986,094; Mar. 7; Sp. p. 722; Gaz. vol. 164; p. 116.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Multiple-spindle automatic lathe. No. 992,277; May 16; Sp. p. 3106; Gaz. vol. 166; p. 566.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Tool holder or bracket. No. 1,008,677; Nov. 14; Sp. p. 2381; Gaz. vol. 172; p. 402.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Machine for castellating nuts. No. 1,010,459; Dec. 5; Sp. p. 106; Gaz. vol. 173; p. 22.
Smith, Oscar A., assignor to The National-Acme Manufacturing Company, Cleveland, Ohio. Automatic nut-castellating machine. No. 1,010,460; Dec. 5; Sp. p. 111; Gaz. vol. 173; p. 22.
Smith, Oscar B., Jasper, Fla. Word-counter for typewriting machines. No. 981,703; Jan. 17; Sp. p. 3415; Gaz. vol. 162; p. 578.
Smith, Oscar L., Philadelphia, Pa. Display-rack. No. 987,183; Mar. 21; Sp. p. 3002; Gaz. vol. 164; p. 546.
Smith, Oscar W., Springfield, Ohio. Detachable coupling for trolley-poles. No. 995,810; June 20; Sp. p. 3758; Gaz. vol. 167; p. 656.
Smith, Otis M. L. and E. K., Newark, Tex. Wire-stretcher. No. 982,542; Jan. 24; Sp. p. 5220; Gaz. vol. 162; p. 900.
Smith, Otto H., New Brunswick, N. J. Whiffletree. No. 982,639; Jan. 24; Sp. p. 5399; Gaz. vol. 162; p. 932.
Smith, Paul H., Columbus, Ohio. Burner. No. 998,130 July 18; Sp. p. 3330; Gaz. vol. 168; p. 600.
Smith, Perry E., Detroit, Mich. Cement-post machine. No. 998,131; July 18; Sp. p. 3331; Gaz. vol. 168; p. 600.
Smith, Philip J., Monroe, Mich. Glue-spreader. No. 1,009,593; Nov. 21; Sp. p. 4373; Gaz. vol. 172; p. 753.
Smith, Phoebe A., Los Angeles, Cal. Packing-form. No. 993,562; May 30; Sp. p. 5868; Gaz. vol. 166; p. 1069.
Smith & Post Company. (See Symons, Edgar B., assignor.)
Smith Premier Typewriter Company, The. (See Barr, John H., assignor.)
Smith Premier Typewriter Company, The. (See Ford, Hannibal C., assignor.)
Smith Premier Typewriter Company, The. (See Glenzing, John Z., assignor.)
Smith, Raymond C., Homer, Mich. Telephone system. No. 998,043; July 18; Sp. p. 3126; Gaz. vol. 168; p. 568.
Smith, Red P., Doxey, assignor to R. D. Clark, Carter, Okla. Corn-harvester. No. 986,233; Mar. 7; Sp. p. 999; Gaz. vol. 164; p. 160.
Smith, Reuben G., North Newport, N. H. Bobbin-lathe. No. 1,008,747; Nov. 14; Sp. p. 2527; Gaz. vol. 172; p. 426.
Smith, Reuben S., Marshall, Tex. Electric hammer. No. 983,943; Feb. 14; Sp. p. 1499; Gaz. vol. 163; p. 264.
Smith, Reuben W. (See Ogilvy and Smith.)
Smith, Robert C., Oak Park, Ill. Oscillating water-motor. No. 981,889; Jan. 17; Sp. p. 3805; Gaz. vol. 162; p. 644.
Smith, Robert D. (See Terry, Otis N., assignor.)
Smith, Robert G., Danville, Va. Special package. No. 985,850; Mar. 7; Sp. p. 194; Gaz. vol. 164; p. 31.
Smith, Robert G., Tama, Iowa. Wagon-loader. No. 1,012,734; Dec. 26; Sp. p. 5176; Gaz. vol. 173; p. 927.
Smith, Robert H., Gleason, Wis. Releasing device for loaders and the like. No. 990,916; May 2; Sp. p. 189; Gaz. vol. 166; p. 34.
Smith, Robert H., Gainesville, Ga. Cotton-grader. No. 991,554; May 9; Sp. p. 1566; Gaz. vol. 166; p. 289.
Smith, Robert J., Yonkers, assignor of one-half to H. P. Eilers, New York, N. Y. Drill. No. 988,903; Apr. 4; Sp. p. 1279; Gaz. vol. 165; p. 205.
Smith, Robert P. (See Drum and Skitt, assignors.)
Smith, Robert P., *et al* (See Griffith, Llewellyn A., assignor.)
Smith, Roy D., Los Angeles, Cal. Coupon passenger-ticket. No. 986,095; Mar. 7; Sp. p. 723; Gaz. vol. 164; p. 116.
Smith, Rudolph C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Traction-elevator control. No. 981,806; Jan. 17; Sp. p. 3618; Gaz. vol. 162; p. 614.
Smith, Rudolph C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator safety device. No. 991,658; May 9; Sp. p. 1797; Gaz. vol. 166; p. 327.
Smith, Samuel C., Daisy, La. Rotary pump. No. 1,004,212; Sept. 26; Sp. p. 4490; Gaz. vol. 170; p. 795.
Smith, Samuel L., Duluth, Minn. Trap-nest. No. 1,004,702; Oct. 3; Sp. p. 322; Gaz. vol. 171; p. 56.
Smith, Samuel S., Schuyler, Pa. Horse-blanket fastener. No. 997,018; July 4; Sp. p. 911; Gaz. vol. 168; p. 144.
Smith, Shirley, Madison, Va. Horse-detacher. No. 989,200; Apr. 11; Sp. p. 1903; Gaz. vol. 165; p. 330.
Smith, Stanley C. (See Burton, Walter, assignor.)
Smith, Stephen, Midway, Utah. Fish-screen. No. 997,157; July 4; Sp. p. 1184; Gaz. vol. 168; p. 191.
Smith, Stewart K., Vintondale, Pa. Foundation apparatus. No. 987,266; Mar. 21; Sp. p. 3187; Gaz. vol. 164; p. 576.
Smith, Theodore, assignor to Theo. Smith Manufacturing Company, Chicago, Ill. Gas-burner for dental tables. No. 991,101; May 2; Sp. p. 567; Gaz. vol. 166; p. 99.
Smith, Theodore E., Weehawken, N. J. Manufacture of butter substitutes. No. 992,521; May 16; Sp. p. 3636; Gaz. vol. 166; p. 653.
Smith, Thomas D., Hamilton, Ontario, Canada. Automatic wood-turning machine. No. 1,001,561; Aug. 22; Sp. p. 5030; Gaz. vol. 169; p. 907.
Smith, Thomas J., Oklahoma, Okla. Stair-builder's square. No. 985,950; Mar. 7; Sp. p. 413; Gaz. vol. 164; p. 66.
Smith, Thomas L., Mohawk, Mich. Snow-shoe strap. No. 992,610; May 16; Sp. p. 3836; Gaz. vol. 166; p. 683.
Smith, Thomas L., assignor to The T. L. Smith Company, Milwaukee, Wis. Mixing-machine. No. 1,000,851; Aug. 15; Sp. p. 3520; Gaz. vol. 169; p. 633.
Smith, Thomas L., and E. W. Meyer, assignors to The T. L. Smith Co., Milwaukee, Wis. Charging device for concrete-mixers. No. 985,751; Feb. 28; Sp. p. 5430; Gaz. vol. 163; p. 952.
Smith, Ulysses G., Lansford, Pa. Sad-iron pattern. No. 981,489; Jan. 10; Sp. p. 2983; Gaz. vol. 162; p. 485.
Smith, Ulysus G., Fayette, Ohio. Automatic stock-tank and heater. No. 982,101; Jan. 17; Sp. p. 4298; Gaz. vol. 162; p. 716.

Alphabetical list of patentees—Continued.

Smith, Ulysus G., Fayette, Ohio. Means for preventing freezing of water in stock-tanks, &c. No. 994,543; June 6; Sp. p. 922; Gaz. vol. 167; p. 152.
Smith, Victor E. (See Smith, Eugene C. and V. E.)
Smith, Walter F., Baltimore, Md., assignor to The Smokeless Stoker Company. Underfed stoker. No. 997,019; July 4; Sp. p. 912; Gaz. vol. 168; p. 144.
Smith, Walter H., assignor to The Harris Automatic Press Company, Niles, Ohio. Numbering-machine. (Reissue.) No. 13,212; Feb. 21; Sp. p. 3980; Gaz. vol. 163; p. 704.
Smith, Walter H., assignor to The Harris Automatic Press Company, Niles, Ohio. Numbering-head. No. 986,234; Mar. 7; Sp. p. 1001; Gaz. vol. 164; p. 160.
Smith, Walter M., assignor of two-thirds to W. C. Lovell and V. J. Logan, Tyrone, Pa. Shaft-support. No. 996,906; July 4; Sp. p. 417; Gaz. vol. 168; p. 70.
Smith, Walter S., assignor to The Columbus Electric Scale Company, Columbus, Ohio. Weighing-scale. No. 992,919; May 23; Sp. p. 4481; Gaz. vol. 166; p. 821.
Smith, Walter S., assignor to The Columbus Electric Scale Company, Columbus, Ohio. Electrically-controlled weighing device. No. 1,001,562; Aug. 22; Sp. p. 5034; Gaz. vol. 169; p. 907.
Smith, Walton D., assignor of one-third to J. A. Firman and one-third to O. P. Petty, Prophetstown, Ill. Package-tie. No. 981,890; Jan. 17; Sp. p. 3810; Gaz. vol. 162; p. 644.
Smith, Walton D., assignor of one-third to F. L. Adams and one-third to J. A. Firman, Prophetstown, Ill. Tag. No. 1,011,869; Dec. 12; Sp. p. 3294; Gaz. vol. 173; p. 547.
Smith, Watson R., assignor, by mesne assignments, to Ventilated Cushion and Spring Co., Jackson, Mich. Spring construction. No. 985,710; Feb. 28; Sp. p. 5355; Gaz. vol. 163; p. 938.
Smith, Wilbert L., trustee. (See Brown, Alexander T., assignor.)
Smith, Wilbur C. (See Martin and Smith.)
Smith, Willard. (See McLaughlin and Smith.)
Smith, William, Cambuslang, Scotland. Lubricator. No. 1,010,195; Nov. 28; Sp. p. 5595; Gaz. vol. 172; p. 1002.
Smith, William A., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Heating carbon. No. 1,004,923; Oct. 3; Sp. p. 818; Gaz. vol. 171; p. 132.
Smith, William A., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Electric-resistance furnace. No. 1,004,924; Oct. 3; Sp. p. 820; Gaz. vol. 171; p. 132.
Smith, William C., Charleroi, Pa. Truck. No. 1,006,985; Oct. 24; Sp. p. 5349; Gaz. vol. 171; p. 938.
Smith, William D., Chicago, Ill. Heat-regulating system. No. 990,602; Apr. 25; Sp. p. 5022; Gaz. vol. 165; p. 875.
Smith, William D., Herbst, Ind. Nut-lock. No. 1,003,379; Sept. 12; Sp. p. 2597; Gaz. vol. 170; p. 447.
Smith, William D., Pittsburgh, Pa. Ordnance. No. 1,007,743; Nov. 7; Sp. p. 200; Gaz. vol. 172; p. 32.
Smith, William D., Pittsburgh, Pa. Ordnance. No. 1,007,744; Nov. 7; Sp. p. 204; Gaz. vol. 172; p. 33.
Smith, William D., Denver, Colo., assignor to Automatic Flareback Prevention Company, Pittsburg, Pa., Gun. No. 983,781; Feb. 7; Sp. p. 1119; Gaz. vol. 163; p. 179.
Smith, William D., Denver, Colo., assignor to Automatic Flareback Prevention Company, Pittsburgh, Pa. Ordnance. No. 1,007,808; Nov. 7; Sp. p. 359; Gaz. vol. 172; p. 57.
Smith, William D., Denver, Colo., assignor to Automatic Flareback Prevention Company, Pittsburgh, Pa. Ordnance. No. 1,007,809; Nov. 7; Sp. p. 363; Gaz. vol. 172; p. 57.
Smith, William E., assignor to Kilbourn Manufacturing Corporation, New Brunswick, N. J. Machine for running on knit goods. No. 1,006,305; Oct. 17; Sp. p. 3833; Gaz. vol. 171; p. 671.
Smith, William E., assignor to Kilbourn Manufacturing Corporation, New Brunswick, N. J. Tubular ribbed fabric. No. 1,009,450; Nov, 21; Sp. p. 4097; Gaz. vol. 172; p. 706.
Smith, William F., Roodhouse, Ill. Aeroplane. No. 992,816; May 23; Sp. p. 4249; Gaz. vol. 166; p. 784.
Smith, William G., assignor to The Russell Manufacturing Co., Middletown, Conn. Elastic webbing. No. 993,803; May 30; Sp. p. 6396; Gaz. vol. 166; p. 1153.
Smith, William H., New Britain, Conn. Razor. No. 997,711; July 11; Sp. p. 2316; Gaz. vol. 168; p. 410.
Smith, William H., Windsor, Mo. Automatic liquid-elevator. No. 1,009,349; Nov. 21; Sp. p. 3846; Gaz. vol. 172; p. 670.
Smith, William H., Atlanta, Ga., assignor to American Can Company, New York, N. Y. Orchard-heater. No. 1,010,461; Dec. 5; Sp. p. 124; Gaz. vol. 173; p. 23.
Smith, William J. (See Stanley, George L., assignor.)
Smith, William J., Tiffin, Ohio. Rug-displayer. No. 997,866; July 11; Sp. p. 2708; Gaz. vol. 168; p. 464.
Smith, William J., New York, N. Y. Type-writer roller or platen. No. 1,010,698; Dec. 5; Sp. p. 656; Gaz. vol. 173; p. 105.
Smith, William J., assignor of one-half to W. S. Hennessy, Jr., Boston, Mass. Resilient wheel. No. 990,788; Apr. 25; Sp. p. 5445; Gaz. vol. 165; p. 937.
Smith, William J., assignor of one-half to W. S. Hennessy, Jr., Boston, Mass. Resilient wheel. No. 990,789; Apr. 25; Sp. p. 5447; Gaz. vol. 165; p. 937.
Smith, William J., New Haven, Conn., assignor to Vickers Sons & Maxim Limited, Westminster, England. Reamer. No. 995,102; June 13; Sp. p. 2206; Gaz. vol. 167; p. 383.
Smith, William N., Burkeville, Tex. Photographic device. No. 1,011,870; Dec. 12; Sp. p. 3295; Gaz. vol. 173; p. 547.
Smith, William R., Erda, Utah. Balancing and steering device for airships. No. 1,003,530; Sept. 19; Sp. p. 2915; Gaz. vol. 170; p. 532.
Smith, William R., assignor to Buffalo Leather Co., Buffalo, N. Y. Dyeing apparatus. No. 1,004,486; Sept. 26; Sp. p. 5048; Gaz. vol. 170; p. 888.
Smith, William T., Bolton, England. Spindle for spinning and doubling machines. No. 984,043; Feb. 14; Sp. p. 1726; Gaz. vol. 163; p. 297.
Smith, William T., Tunnelton, Ind. Rural letter-carrier's all-metal cabinet. No. 1,005,663; Oct. 10; Sp. p. 2414; Gaz. vol. 171; p. 414.
Smith, William T., Philadelphia, Pa. Woven fabric. No. 1,008,930; Nov. 14; Sp. p. 2895; Gaz. vol. 172; p. 486.
Smith, William T., Philadelphia, Pa. Apparatus for preparing chenille strips for weaving. No. 1,009,594; Nov. 21; Sp. p. 4374; Gaz. vol. 172; p. 754.
Smith & Winchester Manufacturing Company. (See Larsen, Ole, assignor.)
Smithwick, Harold, Rumford, Me., assignor to Continental Paper Bag Company. Paper-bag machine. No. 997,336; July 11; Sp. p. 1562; Gaz. vol. 168; p. 283.
Smithwick, Thomas J., Mount Airy, N. C. Jack. No. 980,845; Jan. 3; Sp. p. 1422; Gaz. vol. 162; p. 228.
Smitt, Hermanus M., Utrecht, Netherlands. Tobacco and like packing machine. No. 997,712; July 11; Sp. p. 2317; Gaz. vol. 168; p. 410.
Smock, Jasper D., Terre Haute, Ind. Mold for concrete steps. No. 1,012,735; Dec. 26; Sp. p. 5180; Gaz. vol. 173; p. 928.
Smoke, Hubert L., Irondale, Ala. Nut-lock. No. 1,011,871; Dec. 12; Sp. p. 3296; Gaz. vol. 173; p. 548.
Smokeless Stoker Company, The. (See Smith, Walter F., assignor.)
Smolley, Wayne, Brookville, Ind. Corn-husker. No. 998,928; July 25; Sp. p. 5097; Gaz. vol. 168; p. 914.
Smoot, Charles H., assignor to Rateau Turbine Company, Chicago, Ill. Magnetic shields for electric machines. No. 997,337; July 11; Sp. p. 1566; Gaz. vol. 168; p. 284.
Smoot, Charles H., assignor to Rateau Turbine Company, Chicago, Ill. Brush-holder for dynamos. No. 1,003,817; Sept. 19; Sp. p. 3541; Gaz. vol. 170; p. 630.
Smoot, Lewis E. (See Studds, Julian L., assignor.)
Smoot, Lonnie C., Hillsboro, Tex. Vehicle-wheel. No. 1,004,703; Oct. 3; Sp. p. 324; Gaz. vol. 171; p. 56.
Smoot, Lonnie C., and W. R. Masterson, Hillsboro, Tex. Engine-muffler. No. 1,003,531; Sept. 19; Sp. p. 2917; Gaz. vol. 170; p. 533.
Smyth, Charles, and J. R. Buck, Dayton, Ohio. Rain-water cut-off. No. 983,944; Feb. 14; Sp. p. 1502; Gaz. vol. 163; p. 265.
Smyth, David G., administrator. (See Smyth, David M.)
Smyth, David M., deceased; D. G. Smyth, administrator, assignor to T. C. Miller, Atlanta, Ga. Apparatus for preparing fruit. No 981,130; Jan. 10; Sp. p. 2182; Gaz. vol. 162; p. 360.
Smyth, Isaac, Chicago, Ill. Automobile. No. 995,037; June 13; Sp. p. 2067; Gaz. vol. 167; p. 361.
Smyth Manufacturing Company, The. (See Reynolds, John R., assignor.)
Smyth Manufacturing Company, The. (See White, Samuel K., assignor.)
Smyth, William H., Berkeley, Cal. Apparatus for shaping and sharpening rock-drill bits. No. 996,807; July 4; Sp. p. 418; Gaz. vol. 168; p. 70.
Smyth, William H., Berkeley, Cal. Apparatus for shaping and sharpening rock-drill bits. No. 1,006,306; Oct. 17; Sp. p. 3836; Gaz. vol. 171; p. 672.
Smythe, Jonathan P., Longbeach, Cal. Ore-mill. No. 989,819; Apr. 18; Sp. p. 3282; Gaz. vol. 165; p. 573.
Smythe, Nickolas K., Hilo, Hawaii. Machine for slicing fruit. No. 995,491; June 20; Sp. p. 3043; Gaz. vol. 167; p. 542.
Smythe, Thomas E., Bellefontaine, Ohio. Furnace-door opener and closer. No. 1,002,088; Aug. 29; Sp. p. 6163; Gaz. vol. 169; p. 1115.
Snadon, Frank. (See Lawrence and Snadon.)
Snaman, William E., Pittsburg, Pa. Door construction. No. 997,099; July 4; Sp. p. 1063; Gaz. vol. 168; p. 172.
Snaman, William E., Pittsburg, Pa. Valve. No. 997,158; July 4; Sp. p. 1185; Gaz. vol. 168; p. 192.
Snap-On Tire Chain Company, The. (See Falkenwalde, Oscar, assignor.)
Snapp, Charles. (See Carr, Henry E., assignor.)
Snare, George W. T., Ocean Park, Cal. Surf-pump. No. 992,390; May 16; Sp. p. 3373; Gaz. vol. 166; p. 607.
Snavely, Christian K., Bloomfield, N. J. Shade-roller. No. 1,008,748; Nov. 14; Sp. p. 2530; Gaz. vol. 172; p. 426.
Snavely, Edward M., Middletown, Pa. Hay-rack. No. 994,207; June 6; Sp. p. 221; Gaz. vol. 167; p. 38.

Alphabetical list of patentees—Continued.

Snead, John M., Chicago, Ill., assignor to Gravity Coal Bin Company. Coal-storing apparatus. No. 1,008,085; Nov. 7; Sp. p. 938; Gaz. vol. 172; p. 151.
Snee, John A., West Elizabeth, Pa. Shock-preventing means for fluid-actuating apparatus. No. 989,883; Apr. 18; Sp. p. 3407; Gaz. vol. 165; p. 594.
Snee, William, West Elizabeth, Pa. Windmill-pump. No. 1,001,176; Aug. 22; Sp. p. 4250; Gaz. vol. 169; p. 778.
Sneed, Frank P., Kemper, S. C. Trip-block. No. 995,300; June 13; Sp. p. 2582; Gaz. vol. 167; p. 447.
Sneed, William F., Schenectady, N. Y., assignor to General Electric Company. Vapor electric apparatus. No. 996,371; June 27; Sp. p. 5009; Gaz. vol. 167; p. 882.
Sneeringer, David F., York, Pa. Shock-absorbing coupling. No. 1,008,379; Nov. 14; Sp. p. 1664; Gaz. vol. 172; p. 296.
Snell, Alfred C., London, assignor of one-half to W. R. Comings, Wharncliffe, Wimbledon Park, Surrey, England. Appliance for public amusement. No. 1,007,745; Nov. 7; Sp. p. 208; Gaz. vol. 172; p. 33.
Snell, Arphad. (See Bradoc and Frost, assignors.)
Snell, George D., Denver, Colo. Emergency-horseshoe. No. 992,278; May 16; Sp. p. 3108; Gaz. vol. 166; p. 566.
Snell, Harry B. (See Lawson and Snell.)
Snell, Henry M. (See Potter and Snell.)
Snider, Charles H., Conway, S. C. Sash-lock. No. 1,007,398; Oct. 31; Sp. p. 6258; Gaz. vol. 171; p. 1139.
Snipen, Gulbran, St. Louis, Mo. Dust-collector for vacuum cleaning systems. No. 998,648; July 25; Sp. p. 4464; Gaz. vol. 168; p. 815.
Snoddy, James T., assignor to Auburn Wagon Company, Martinsburg, W. Va. Equalizer for dumping-wagons. No. 1,008,380; Nov. 14; Sp. p. 1666; Gaz. vol. 172; p. 296.
Snodgrass, John A., Enid, Okla. Railway-crossing. No. 1,001,699; Aug. 29; Sp. p. 5341; Gaz. vol. 169; p. 985.
Snodgrass, Ross, Jacksonburg, W. Va. Lid-lifter. No. 1,010,196; Nov. 28; Sp. p. 5596; Gaz. vol. 172; p. 1002.
Snodgrass, S. E. (See Collins, Joseph M., assignor.)
Snook, Homer C., and E. W. Kelly, Philadelphia, Pa. Stereoscopic apparatus. No. 997,338; July 11; Sp. p. 1568; Gaz. vol. 168; p. 284.
Snook, Homer C., and G. H. White, assignors to Roentgen Manufacturing Company, Philadelphia, Pa. X-ray tube and vacuum control therefor. No. 1,010,197; Nov. 28; Sp. p. 5597; Gaz. vol. 172; p. 1002.
Snow, Arthur L., Kingfisher, Okla., assignor to G. C. Snow, Comfort, Tex. Spring. No. 997,423; July 11; Sp. p. 1714; Gaz. vol. 168; p. 312.
Snow, Arthur L., Kingfisher, Okla., assignor to G. C. Snow, Comfort, Tex. Spring. No. 997,424; July 11; Sp. p. 1719; Gaz. vol. 168; p. 312.
Snow, Arthur L., Kingfisher, Okla., assignor to G. C. Snow, Comfort, Tex. Vehicle-spring. No. 997,470; July 11; Sp. p. 1803; Gaz. vol. 168; p. 326.
Snow, Arthur L., deceased; G. C. Snow, executor, Kingfisher, Okla. Spring. No. 997,867; July 11; Sp. p. 2710; Gaz. vol. 168; p. 465.
Snow, Clarence M., Provincetown, Mass. Dredge. No. 1,001,700; Aug. 29; Sp. p. 5345; Gaz. vol. 169; p. 986.
Snow, Frank P., Los Angeles, Cal. Gate-valve. No. 1,012,173; Dec. 19; Sp. p. 4003; Gaz. vol. 173; p. 689.
Snow, Frank P., Los Angeles, assignor to Kellar-Thomason Manufacturing Company, Covina, Cal. Valve or gate. No. 989,201; Apr. 11; Sp. p. 1904; Gaz. vol. 165; p. 330.
Snow, Frank P., Los Angeles, assignor to Kellar-Thomason Manufacturing Company, Covina, Cal. Head-gate. No. 989,202; Apr. 11; Sp. p. 1906; Gaz. vol. 165; p. 330.
Snow, Frank P., Los Angeles, assignor to Kellar-Thomason Manufacturing Company, Covina, Cal. Irrigation-valve. No. 999,409; Aug. 1; Sp. p. 425; Gaz. vol. 169; p. 75.
Snow, Frederick, assignor to Conkling Company, Chicago, Ill. Driving and reversing mechanism for planers and the like. No. 1,003,156; Sept. 12; Sp. p. 2132; Gaz. vol. 170; p. 367.
Snow, Grace C., executor. (See Snow, Arthur L.)
Snow, Guy, Kaufman, Tex. Aerodrome. No. 996,153; June 27; Sp. p. 4465; Gaz. vol. 167; p. 808.
Snow, Henry I., and G. R. Farrell, assignors to Yale Novelty Company, Leominster, Mass. Barrette. No. 989,656; Apr. 18; Sp. p. 2930; Gaz. vol. 165; p. 516.
Snow, Isaac, Lawrence, assignor to Draper Company, Hopedale, Mass. Automatically-threading loom-shuttle. No. 1,006,801; Oct. 24; Sp. p. 4942; Gaz. vol. 171; p. 875.
Snow, Levi T. (See Zastrow and Snow.)
Snow, Renceler C. (See Côté and Snow.)
Snow, Stephen, Everett, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Lasting-machine. (Reissue.) No. 13,292; Sept. 19; Sp. p. 3899; Gaz. vol. 170; p. 685.
Snow, Theodore W. (See Moore, Moses M., assignor.)
Snow, William E., Dedham, assignor to B. F. Sturtevant Company, Boston, Mass. Turbine. No. 981,021; Jan. 10; Sp. p. 1949; Gaz. vol. 162; p. 321.
Snow, William E., Dedham, assignor to B. F. Sturtevant Company, Boston, Mass. Turbine. No. 1,013,080; Dec. 26; Sp. p. 5968; Gaz. vol. 173; p. 1045.
Snow, William E., Hyde Park, assignor to B. F. Sturtevant Company, Boston, Mass. Elastic-fluid turbine. No. 1,007,249; Oct. 31; Sp. p. 5947; Gaz. vol. 171; p. 1086.
Snowden, Irvin C., Richmond, Mo. Counter. No. 988,831; Apr. 4; Sp. p. 1149; Gaz. vol. 165; p. 183.
Snowden, Russell E., Snowden, N. C. Elevator. No. 995,921; June 20; Sp. p. 3991; Gaz. vol. 167; p. 693.
Snyder, Augustus G., Ilion, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 983,651; Feb. 7; Sp. p. 850; Gaz. vol. 163; p. 135.
Snyder, Egbert. (See Hall, John I., assignor.)
Snyder, Emmanuell H., Barberton, Ohio. Corn-planter. No. 1,012,174; Dec. 19; Sp. p. 4005; Gaz. vol. 173; p. 690.
Snyder, Frank M., Cresson, Pa. Blow-off valve. No. 993,726; May 30; Sp. p. 6240; Gaz. vol. 166; p. 1127.
Snyder, Frank M., assignor to Barbee Wire & Iron Works, La Fayette, Ind. Knockdown basket. No. 987,410; Mar. 21; Sp. p. 3494; Gaz. vol. 164; p. 624.
Snyder, Frederick T., Chicago, Ill., assignor to American Steel Foundries, New York, N. Y. Hydraulic equalizer. No. 1,010,000; Nov. 28; Sp. p. 5207; Gaz. vol. 172; p. 935.
Snyder, George C., Washington, D. C. Lock-flange for piano-actions. No. 1,011,510; Dec. 12; Sp. p. 2496; Gaz. vol. 173; p. 425.
Snyder, Jacob A., Cincinnati, Ohio. Inspection device for wearing-apparel. No. 983,320; Feb. 7; Sp. p. 137; Gaz. vol. 163; p. 24.
Snyder, James O. (See Chrysler, William L., assignor.)
Snyder, Joseph L. K., assignor to National Carbon Company, Cleveland, Ohio. Applying protecting-glaze to carbon electrodes. No. 1,000,761; Aug. 15; Sp. p. 3328; Gaz. vol. 169; p. 601.
Snyder, Joseph L. K., assignor to National Carbon Company, Cleveland, Ohio. Electrode-cover for electric furnaces. No. 1,010,001; Nov. 28; Sp. p. 5211; Gaz. vol. 172; p. 935.
Snyder, Robert, Los Angeles, Cal. Water-elevator. No. 1,005,664; Oct. 10; Sp. p. 2417; Gaz. vol. 171; p. 415.
Snyder, Robert C., Spokane, Wash. Flue stop and thimble. No. 994,208; June 6; Sp. p. 223; Gaz. vol. 167; p. 38.
Snyder, Thomas A., St. Louis, Mo. Aerostructure. No. 1,007,810; Nov. 7; Sp. p. 366; Gaz. vol. 172; p. 57.
Snyder, Thomas F. (See Totten and Snyder.)
Snyder, Thomas K., Chicora, Pa. Horseshoer's foot-vise. No. 1,003,665; Sept. 19; Sp. p. 3219; Gaz. vol. 170; p. 580.
Snyder, Thomas O., Baltimore, Md. Granite-surfacing hammer. No. 987,502; Mar. 21; Sp. p. 3673; Gaz. vol. 164; p. 655.
Snyder, Walter E., West Pittston, Pa. Vibrating cup. No. 1,000,700; Aug. 15; Sp. p. 3212; Gaz. vol. 169; p. 580.
Snyder, William, Rochester, N. Y. Fender for automobiles. No. 1,007,150; Oct. 31; Sp. p. 5731; Gaz. vol. 171; p. 1050.
Snyder, William, Columbus, Mont. Nose-bag support. No. 1,012,465; Dec. 19; Sp. p. 4593; Gaz. vol. 173; p. 787.
Snyder, William A. (See Pennington, John K., assignor.)
Snyder, William A., Los Angeles, Cal. Furniture. No. 985,219; Feb. 28; Sp. p. 4250; Gaz. vol. 163; p. 770.
Snyder, William H., Ashbourne, Pa. Anti slipping and skidding device. No. 1,004,487; Sept. 26; Sp. p. 5050; Gaz. vol. 170; p. 889.
Snyder, William M., Savannah, Ga. Switch mechanism for trolley-cars. No. 987,503; Mar. 21; Sp. p. 3674; Gaz. vol. 164; p. 656.
Soars, Robert D., Buffalo, N. Y., assignor to Hunso Machinery Company. Mixing-machine. No. 985,299; Feb. 28; Sp. p. 4434; Gaz. vol. 163; p. 797.
Sobey, William, assignor to J. I. Case Plow Works, Racine, Wis. Wheeled plow. No. 982,191; Jan. 17; Sp. p. 4454; Gaz. vol. 162; p. 747.
Sobinski, Charles O., St. Louis, Mo. Pneumatic massage-tool. No. 1,010,699; Dec. 5; Sp. p. 658; Gaz. vol. 173; p. 105.
Sochor, Friedrich, Vienna, Austria-Hungary. Jib-crane. No. 980,846; Jan. 3; Sp. p. 1423; Gaz. vol. 162; p. 228.
Società Anonima Fiat-San Giorgio. (See Laurenti, Cesare, assignor.)
Societa Anonima Italiana Gio. Ansaldo Armstrong & C. (See Giolitti, Federico, assignor.)
Societa de Monteponi. (See Sartori, Francesco, assignor.)
Societa Fiat-San Giorgio. (See Laurenti, Cesare, assignor.)
Società Generale per la Cianamide. (See Frank, Albert R., assignor.)
Société André Citroen et Cie. (See Citroën, André, assignor.)
Société Anonyme "Alumina." (See Wauthoz, Henri, assignor.)
Société Anonyme des Anciens Etablissements Bosset et Cachard. (See Bosset and Cachard, assignors.)
Société Anonyme des Automobiles et Cycles Peugeot. (See Koechlin, Isaac, assignor.)
Société Anonyme des Elévateurs de Liquides "Chaîne-Helice" Bessonnet-Favre. (See Bessonnet-Favre, Henry, assignor.)
Société Anonyme des Etablissements A. Maguin *et al.* (See Maguin, Alfred, assignor.)
Société Anonyme des Etablissements Ph. Bonvillain and E. Ronceray. (See Ronceray, Eugéne, assignor.)

Alphabetical list of patentees—Continued.

Société Anonyme des Forges et Fonderies de Montataire. (See Planche, Ernest J., assignor.)
Société Anonyme des Manufactures de Glaceset Produits Chimiques de Saint Gobain. (See Crochet, Henry L. J., assignor.)
Societe Anonyme des Perfectionnements aux Lampes Electriques à Filaments Metalliques. (See Triquet, Paul G., assignor.)
Société Anonyme des Plaques & Produits Dufay. (See Dufay, Louis, assignor.)
Société Anonyme des Suspensions et Roues Flexibles. (See Rimailho, Emile, assignor.)
Societe Anonyme des Usines A. E. Decoufle. (See Gueniffet and Nicault, assignors.)
Société Anonyme des Verreries et Manufactures des Glaces d'Aniche. (See Laronde, Michel P. A., assignor.)
Société Anonyme Du Joxyl. (See Josz, Ernest, assignor.) (Reissue.)
Société Anonyme "La Photographie des Couleurs." (See Sury and Bastyns, assignors.)
Societe Anonyme pour l'Exploitation des Procedes Westinghouse-Leblanc. (See Leblanc, Maurice, assignor.)
Société Chimique Des Usines Du Rhône, Anciennement Gilliard, P. Monnet et Cartier. (See Koetschet and Barbier, assignors.)
Société Chimique des Usines du Rhône, anciennement Gilliard P. Monnet et Cartier. (See Koetschet and Meyer, assignors.)
Société Commerciale des Mines, Minerais et Metaux. (See Korda, Désiré, assignor.)
Societe des Moteurs Gnome. (See Seguin, Louis L. A., assignor.)
Societe des Moteurs Sabathe, The. (See Sabathé, Louis G., assignor.)
Société Duflos Freres *et al.* (See Maguin, Alfred, assignor.)
Societe Electro-Metallurgique Francaise. (See Héroult, Paul L. T., assignor.)
Societe Evette et Schaeffer. (See Evette, Paul, assignor.)
Société Française de Constructions Mécaniques (Anciens Etablissements Cail). (See Lavoix, Antoine, assignor.) house-Leblanc. (See Leblanc, Maurice, assignor.)
Société Française de la Viscose. (See Naudin, Laurent, assignor.)
Société Générale de Coutellerie et Orfevrerie. (See Grover, Albert D., assignor.)
Société Generale Des Nitrures. (See Serpek, Ottokar, assignor.)
Société Harle & Cie. (See Matricardi, Guiseppe, assignor.)
Société Industrielle de Delle. (See Dubail, Jules, assignor.)
Societe J. et A. Pavin De Lafarge, The. (See Daher, Charles, assignor.)
Societe Jost & Cie. (See Jost, Jean A., assignor.)
Société Le Ferment. (See Remy, Pierre N. E., assignor.)
Société Levy fils, A. Bernheim & Cie. (See Levy, George E., assignor.)
Société Picard & Pétot. (See Picard, Raymond F., assignor.)
Society Bremer Linoleumwerke Delmenhorst. (See Fritz, Felix E., assignor.)
Society Compagnie Generale De Phonographes, Cinematographes Et Appareils De Precision. (See Ivatts, Ernest A., assignor.)
Society Goudard et Mennesson. (See Jouffret and Renée, assignors.)
Society of Chemical Industry in Basle. (See Baselli, Antonio, assignor.)
Society of Chemical Industry in Basle. (See Engi and Fröhlich, assignors.)
Society of Chemical Industry in Basle. (See Rey, Hermann, assignor.)
Society of Chemical Industry in Basle. (See Steinbuch, Ewald, assignor.)
Society of Chemical Industry in Basle. (See Strauss, David, assignor.)
Society of Chemical Industry in Basle. (See Wuth, Berthold, assignor.)
Sodeau, William H., assignor to W. G. Armstrong Whitworth & Company Limited, Newcastle-upon-Tyne, England. Means for increasing energy of stored compressed air or other gas capable of supporting combustion. No. 1,008,871; Nov. 14; Sp. p. 2776; Gaz. vol. 172; p. 467.
Sodeau, William H., assignor to W. G. Armstrong Whitworth & Company Limited, Newcastle-upon-Tyne, England. Percussive ignition device. No. 1,009,024; Nov. 14; Sp. p. 3114; Gaz. vol. 172; p. 518.
Södelmayer, Anton, Schwäbisch-Gmünd, Germany. Spring seat and back for cane furniture. No. 1,011,134; Dec. 5; Sp. p. 1615; Gaz. vol. 173; p. 256.
Sodemann, Christian W. G., assignor to Sodemann Heat & Power Company, St. Louis, Mo. Dust-collecting shield for heating-radiators. No. 1,009,195; Nov. 21; Sp. p. 3474; Gaz. vol. 172; p. 613.
Sodemann Heat & Power Company. (See Sodemann, Christian W. G., assignor.)
Soderburg, Carl A., Rockford, Ill. Ice-creeper. No. 1,008,286; Nov. 7; Sp. p. 1382; Gaz. vol. 172; p. 225.
Soderberg, Gustav D., Chicago, Ill. Safety-pin. No. 987,758; Mar. 28; Sp. p. 4220; Gaz. vol. 164; p. 771.
Soderberg, John A. (See Westerberg, Hugo E., assignor.)
Soderberg, John G. (See Wyman, Clark, and Soderberg.)
Soderberg, John G., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Jacquard-card-punching machine. No. 1,003,214; Sept. 12; Sp. p. 2267; Gaz. vol. 170; p. 390.
Soderberg, John G., Worcester, Mass., assignor to Crompton & Knowles Loom Works. Grinding-machine. No. 1,003,532; Sept. 19; Sp. p. 2917; Gaz. vol. 170; p. 533.
Soehngen, Gottlieb. (See Zwosta and Soehngen.)
Sofge, John. (See Swing, Alfred J., assignor.)
Sofleiss, Conrad C., Richmond Hill, N. Y. Cesspool. No. 1,002,089; Aug. 29; Sp. p. 6167; Gaz. vol. 169; p. 1115.
Sofrin, Thomas, Bernardsville, N. J. Safety-razor. No. 994,958; June 13; Sp. p. 1907; Gaz. vol. 167; p. 335.
Sohl, Fritz, Magdeburg, Germany. Safety-lock for screw-nuts. No. 1,011,135; Dec. 5; Sp. p. 1616; Gaz. vol. 173; p. 256.
Sohlman, Ragnar, Bofors, Sweden, and W. A. Wilson, Ardeer, Scotland. Concentrating acids. No. 1,009,196; Nov. 21; Sp. p. 3475; Gaz. vol. 172; p. 614.
Sohlman, Ragnar, Bofors, Sweden, and C. O. Lundholm, Ardeer, Scotland. Concentrating nitric acid. No. 1,009,197; Nov. 21; Sp. p. 3477; Gaz. vol. 172; p. 614.
Sohlman, Ragnar, H. Nordenfelt, and H. Morén, Bofors, Sweden. Fuse for shells with safety device. No. 999,268; Aug. 1; Sp. p. 145; Gaz. vol. 169; p. 27.
Sohm, Alfred L., Whittier, assignor to Sohm Electric Signal & Recording Company, Los Angeles, Cal. Electrical signal-recording system. No. 988,218; Mar. 28; Sp. p. 5225; Gaz. vol. 164; p. 927.
Sohm Electric Signal & Recording Company. (See Sohm, Alfred L., assignor.)
Sohn, Charles E. (See Walker and Sohn.)
Sohn, James A., Ione, Cal. Mower. No. 1,012,736; Dec. 26; Sp. p. 5182; Gaz. vol. 173; p. 928.
Sohn, Ralph L., assignor of one-third to H. M. Scott and one-third to W. A. Scott, Arrowsmith, Ill. Tool for cement work. No. 985,074; Feb. 21; Sp. p. 3882; Gaz. vol. 163; p. 686.
Sokolowski, Ernst, Hamburg, and G. Issler, Cologne, Germany, assignors to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Funnel for charging containers for bursting charges with fused explosives. No. 1,011,511; Dec. 12; Sp. p. 2500; Gaz. vol. 173; p. 425.
Sola, Carlo, Davos Platz, Switzerland. Device for cutting paper. No. 1,000,631; Aug. 15; Sp. p. 3066; Gaz. vol. 169; p. 557.
Solberg, Christopher (See Schuttee, Joseph, assignor.)
Solenberger, Levi G., Guildford township, Franklin county, Pa. Sign. No. 986,235; Mar. 7; Sp. p. 1003; Gaz. vol. 164; p. 161.
Soler, Joseph A., Chicago, Ill. Graphophone attachment. No. 1,001,780; Aug. 29; Sp. p. 5512; Gaz. vol. 169; p. 1012.
Soles, William A., New York, N. Y. Locking device for telephones. No. 986,952; Mar. 14; Sp. p. 2530; Gaz. vol. 164; p. 437.
Soletcki, Steven, Chicago, Ill. Combined picture-frame and portfolio. No. 986,236; Mar. 7; Sp. p. 1004; Gaz. vol. 164; p. 161.
Soley, Frank, assignor to Miller Lock Co., Philadelphia, Pa. Combination-lock. No. 986,096; Mar. 7; Sp. p. 726; Gaz. vol. 164; p. 117.
Soley, Frank, assignor to Miller Lock Co., Philadelphia, Pa. Padlock. No. 1,011,872; Dec. 12; Sp. p. 3297; Gaz. vol. 173; p. 548.
Soliani, Nabor, Sestri Ponente, near Genoa, Italy. Ship. No. 999,410; Aug. 1; Sp. p. 427; Gaz. vol. 169; p. 76.
Solidarity Watch Case Co. (See McGrevy, Jeremiah, assignor.)
Soliss, A. N. (See Jones, Paul, assignor.)
Solliday, David F. (See Solliday, Harry J., assignor.)
Solliday, Harry J., assignor of one-half to D. F. Solliday, Oklahoma, Okla. Gas-burner. No. 984,165; Feb. 14; Sp. p. 1967; Gaz. vol. 163; p. 338.
Sollitt, George, Hastings, New Zealand. Venetian blind. No. 1,001,469; Aug. 22; Sp. p. 4856; Gaz. vol. 169; p. 876.
Sollmann, Ekko, Hoboken, N. J., assignor to Geo. Borgfeldt & Co., New York, N. Y. Electric toy. No. 993,727; May 30; Sp. p. 6242; Gaz. vol. 166; p. 1128.
Soloman, David L. (See Lukens, Clarence D., assignor.)
Solomon, Abraham, New York, N. Y. Weather-strip. No. 1,011,649; Dec. 12; Sp. p. 2851; Gaz. vol. 173; p. 476.
Solomon, John, Oakland, Cal. Bed. No. 1,012,737; Dec. 26; Sp. p. 5183; Gaz. vol. 173; p. 928.
Solomon, John I., New York, N. Y. Extracting pearls from oysters. No. 989,072; Apr. 11; Sp. p. 1647; Gaz. vol. 165; p. 287.
Solomonoff, Andrew, assignor to The Will & Baumer Company, Syracuse, N. Y. Raising the melting-points of fatty acids. No. 1,002,186; Aug. 29; Sp. p. 6343; Gaz. vol. 169; p. 1146.
Somers, Edmund F. (See Butcher, John S., assignor.)
Somers, Everett X., assignor to American News-Vending Machine Co., St. Johnsbury, Vt. Vending apparatus. No. 994,882; June 13; Sp. p. 1752; Gaz. vol. 167; p. 310.
Somers, Perrin G., San Diego, assignor of one-half to E. Kingston, Alpine, Cal. Fluid-jet-propelled vessel. No. 1,007,811; Nov. 7; Sp. p. 369; Gaz. vol. 172; p. 58.

Somervillc, George, Denver, Colo. Attachment for violins and like instruments. No. 992,454; May 16; Sp. p. 3489; Gaz. vol. 166; p. 628.
Sommer, Benjamin L., executor. (See Sommer, Peter, J., P. W., and J. W.)
Sommer, Fritz. (See Klages and Sommer.)
Sommer, John. (See Sommer, Peter, J., P. W., and J. W.)
Sommer, Joseph W. (See Sommer, Peter W., J. W., and W.)
Sommer, Peter, Peoria, Ill., J. Sommer, Point Lookout, Utah, and P. W. and J. W. Sommer, Peoria, Ill.; B. L. Sommer executor of said J. W. Sommer, deceased. Fence-fabric machine. No. 1,004,704; Oct. 3; Sp. p. 325; Gaz. vol. 171; p. 56.
Sommer, Peter W. (See Sommer, Peter, J., P. W., and J. W.)
Sommer, Peter W., Peoria, Ill. Safety appliance for elevators. No. 998,416; July 18; Sp. p. 3965; Gaz. vol. 168; p. 702.
Sommer, Peter W., J. W., and W., Peoria, assignors to Keystone Steel and Wire Company, South Bartonville, Ill. Wire-fence machine. No. 999,411; Aug. 1; Sp. p. 429; Gaz. vol. 169; p. 76.
Sommer, Rudolf. (See Ulzer and Sommer.)
Sommer, William. (See Sommer, Peter W., J. W., and W.)
Sommerfeld, August, St. Louis, Mo. Collapsible shipping-box. No. 980,570; Jan. 3; Sp. p. 859; Gaz. vol. 162; p. 138.
Sommers, William. (See Franck, Sommers, and Fritz.)
Sonak, Albert A., Sprague, W. Va. Horse-detacher. No. 990,019; Apr. 18; Sp. p. 3701; Gaz. vol. 165; p. 641.
Sondergard, Thomas, Chicago, Ill. Window frame and sash. No. 981,022; Jan. 10; Sp. p. 1950; Gaz. vol. 162; p. 322.
Sonderup, Christ T. (See Sonderup, Henry T. and C. T.)
Sonderup, Henry T. and C. T., St. Paul, Nebr. Side-curtain supporter. No. 1,005,665; Oct. 10; Sp. p. 2418; Gaz. vol. 171; p. 416.
Sondley, William T., Huntsville, Ala., assignor, by mesne assignments, to J. W. Skinner and A. W. Miller. Clasp. No. 1,006,013; Oct. 17; Sp. p. 3164; Gaz. vol. 171; p. 568.
Sondley, William T., Hunstville, Ala., assignor, by mesne assignments, to J. W. Skinner and A. W. Miller. Elastic cord for garment-supports. No. 1,006,014; Oct. 17; Sp. p. 3166; Gaz. vol. 171; p. 568.
Songer, Martha J. (See Deans and Songer.)
Sonier, Lovince, Gray, La. Attachment for cultivators. No. 981,023; Jan. 10; Sp. p. 1952; Gaz. vol. 162; p. 322.
Sonnberg, Wilhelm, Berlin, Germany. Collapsible gun-mount. No. 1,012,738; Dec. 26; Sp. p. 5184; Gaz. vol. 173; p. 929.
Sonnberg, Wilhelm, assignor to Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Ball-bearing. No. 1,000,044; Aug. 8; Sp. p. 1707; Gaz. vol. 169; p. 319.
Sonnichsen, Christian N., Bridgewater, S. D. Draft appliance. No. 1,009,350; Nov. 21; Sp. p. 3851; Gaz. vol. 172; p. 670.
Sonntag, Alfred, Dresden, Germany. Bed-covering. No. 1,001,088; Aug. 22; Sp. p. 4095; Gaz. vol. 169; p. 750.
Sooy, Ephraim C., Kansas City, Mo. Platform-scale. No. 987,184; Mar. 21; Sp. p. 3007; Gaz. vol. 164; p. 546.
Sooy, Norman H., Kansas City, Mo. Motor-propelled and other vehicle. No. 1,008,212; Nov. 7; Sp. p. 1211; Gaz. vol. 172; p. 198.
Sooy, William L. (See Bisbing and Sooy.)
Soper, Albert L., Cleveland, Ohio, assignor to Warner Instrument Company, Beloit, Wis. Support for speedometer-gearing. No. 1,004,598; Oct. 3; Sp. p. 107; Gaz. vol. 171; p. 19.
Soper, Lewis N., Guelph, Ontario, Canada. Upright-piano action. No. 1,000,762; Aug. 15; Sp. p. 3329; Gaz. vol. 169; p. 601.
Sorensen, Einar N., Athens, Pa. Lining for engine-cylinders. No. 983,409; Feb. 7; Sp. p. 323; Gaz. vol. 163; p. 54.
Sorensen, Peter, and E. N. Gilstrap; said Gilstrap assignor to M. Madsen, Wolbach, Nebr. Animal-detacher. No. 1,010,198; Nov. 28; Sp. p. 5601; Gaz. vol. 172; p. 1003.
Sörensen, Sören, Eaton, Colo. Seeding-machine. No. 981,704; Jan. 17; Sp. p. 3416; Gaz. vol. 162; p. 578.
Sorgan, Otto, New York, N. Y. Non-refillable bottle. No. 1,004,488; Sept. 26; Sp. p. 5052; Gaz. vol. 170; p. 889.
Sorger, Carl, Niederlahnstein-on-the-Rhine, Germany. Acid ferric phosphor tartrate. No. 995,038; June 13; Sp. p. 2068; Gaz. vol. 167; p. 362.
Sorger, Carl, Niederlahnstein, Germany. Acid ferric arsen-tartrate. No. 995,383; June 13; Sp. p. 2793; Gaz. vol. 167; p. 476.
Soss, Charles J., Brooklyn, N. Y. Hinge. No. 1,008,381; Nov. 14; Sp. p. 1667; Gaz. vol. 172; p. 297.
Soss, Joseph, Brooklyn, N. Y. Casting-machine. No. 1,009,107; Nov. 21; Sp. p. 3297; Gaz. vol. 172; p. 583.
Soss, Joseph, Brooklyn, N. Y. Hinge. No. 1,009,108; Nov. 21; Sp. p. 3301; Gaz. vol. 172; p. 584.
Soss, Joseph, Brooklyn, N. Y. Casting-machine. No. 1,009,263; Nov. 21; Sp. p. 3660; Gaz. vol. 172; p. 638.
Soss, Joseph, Brooklyn, N. Y. Hinge. No. 1,011,512; Dec. 12; Sp. p. 2502; Gaz. vol. 173; p. 426.
Soss, Peter, Jr., assignor of one-half to P. Soss, Sr., Bloomington, Ill. Insect-exterminator. No. 988,517; Apr. 4; Sp. p. 488; Gaz. vol. 165; p. 77.
Souden, Harry, and W. S. Leahy, Lebanon, Pa. Rail-joint. No. 1,012,023; Dec. 19; Sp. p. 3669; Gaz. vol. 173; p. 638.
Souder, Jacob J., Washington, D. C. Rail-joint. No. 998,132; July 18; Sp. p. 3332; Gaz. vol. 168; p. 600.
Souders, Perry S., assignor to Rockford Iron Works, Rockford, Ill. Punch-press. No. 998,806; July 25; Sp. p. 4821; Gaz. vol. 168; p. 871.
Soule, Arial S., assignor of one-half to R. H. Woods, Payette, Idaho. Step-ladder. No. 986,953; Mar. 14; Sp. p. 2531; Gaz. vol. 164; p. 437.
Soule, Arthur C. (See Melton, Lloyd L., assignor.)
Soule, Arthur C., assignor to Soule Reversible Window Co., San Francisco, Cal. Reversible window. No. 981,807; Jan. 17; Sp. p. 3632; Gaz. vol. 162; p. 615.
Soule, Arthur C., assignor to Soule Reversible Window Co., San Francisco, Cal. Reversible window. No. 1,005,344; Oct. 10; Sp. p. 1693; Gaz. vol. 171; p. 302.
Soule, Arthur C., assignor to Soule Reversible Window Co., San Francisco, Cal. Reversible window. No. 1,005,345; Oct. 10; Sp. p. 1695; Gaz. vol. 171; p. 302.
Soule, Arthur C., assignor to Soule Reversible Window Co., San Francisco, Cal. Reversible window. No. 1,005,346; Oct. 10; Sp. p. 1698; Gaz. vol. 171; p. 303.
Soule, Herbert C., Wilkinsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Transformer. No. 1,010,083; Nov. 28; Sp. p. 5382; Gaz. vol. 172; p. 965.
Soule Reversible Window Co. (See Soule, Arthur C., assignor.)
Sourek, Joseph S., Bath township, Summit county, Ohio. Rope, chain, or wire stretcher. (Reissue.) No. 13,233; May 2; Sp. p. 1368; Gaz. vol. 166; p. 227.
Sourek, Joseph S., Bath township, Summit county, Ohio. Cleaning implement. No. 1,008,382; Nov. 14; Sp. p 1669; Gaz. vol. 172; p. 297.
South, Augustus W., Clarinda, Iowa, assignor to The A. W. South Manufacturing Company. Program-clock. No. 1,004,097; Sept. 26; Sp. p. 4239; Gaz. vol. 170; p. 756.
South Bend Watch Company. (See Reaves, Frank J., assignor.)
South Fork Smelting Company. (See Heslewood, William R., assignor.)
South, John P., Austin, Tex. Clipping and pruning shears. No. 991,250; May 2; Sp. p. 904; Gaz. vol. 166; p. 153.
Southard, Abraham M., assignor of one-half to The Wheeler Publishing Company, Denver, Colo. Loose-leaf binder. No. 994,959; June 13; Sp. p. 1908; Gaz. vol. 167; p. 335.
Souther, Sidney A., assignor to Homer Roberts Telephone Co., Chicago, Ill. Party-line telephone system. No. 1,002,878; Sept. 12; Sp. p. 1566; Gaz. vol. 170; p. 272.
Southern Cotton Oil Company, The. (See Thompson, Erwin W., assignor.)
Southern Electro-Chemical Company, The. (See Peacock, Samuel, assignor.)
Southern Manufacturing Company. (See Laroy, Thomas E., assignor.)
Southern Manufacturing Company. (See Pope, Frederick, assignor.)
Southern Spring Bed Company. (See Schwab, Robert W., assignor.)
Southgate, Louis W., Worcester, Mass. Amplifying electric currents. No. 992,817; May 23; Sp. p. 4251; Gaz. vol. 166; p. 784.
Southgate, Louis W., Worcester, Mass., assignor, by mesne assignments, to Auto Pneumatic Action Co., New York, N. Y. Device for adjusting the relation between music-sheets and trackers. No. 995,492; June 20; Sp. p. 3045; Gaz. vol. 167; p. 542.
Southgate, Louis W., Worcester, Mass., assignor to The Auto Pneumatic Action Company, New York, N. Y. Device for regulating the speed of pneumatic motors. No. 1,004,213; Sept. 26; Sp. p. 4491; Gaz. vol. 170; p. 795.
Southgate, Louis W., Worcester, Mass., assignor to Auto Pneumatic Action Co., New York, N. Y. Tracker mechanism. No. 1,012,175; Dec. 19; Sp. p. 4009; Gaz. vol. 173; p. 690.
Southgate Machinery Co. (See Upham, Burt F., assignor.)
Southgate Machinery Company. (See Flower, Edwin, assignor.)
Southwark Foundry and Machine Company. (See Petsche, Gustav B., assignor.)
Southwick, George W., Quincy, Ill. Molding-machine. No. 1,000,205; Aug. 8; Sp. p. 2105; Gaz. vol. 169; p. 375.
Southwick, Plin C., Sandwich, Ill. Corn-sheller. No. 998,417; July 18; Sp. p. 3969; Gaz. vol. 168; p. 703.
Southwick, Roy E., Los Angeles, Cal. Telephone attachment. No. 1,002,936; Sept. 12; Sp. p. 1698; Gaz. vol. 170; p. 294.
Southwick, William D., *et al.* (See Dawson and McAlpine, assignors.)

Alphabetical list of patentees—Continued.

Southwick, William S., Mendon, Mass. Heating attachment for lamp-chimneys. No. 989,657; Apr. 18; Sp. p. 2932; Gaz. vol. 165; p. 517.
Southwick, William S., Worcester, assignor of fourteen-sixteenths to S. B. Taft, Uxbridge, Mass. Take-up for looms. No. 1,006,015; Oct. 17; Sp. p. 3167; Gaz. vol. 171; p. 568.
Southworth, Preston B., San Diego, Cal. Mail-bag receiving and delivering apparatus. No. 1,008,213; Nov. 7; Sp. p. 1214; Gaz. vol. 172; p. 199.
Sovereign, George E., Pottersville, N. J. Screening device for feed-crushers. No. 994,960; June 13; Sp. p. 1910; Gaz. vol. 167; p. 336.
Sowards, Charles, Marinette, Wis. Horse-releaser. No. 986,097; Mar. 7; Sp. p. 727; Gaz. vol. 164; p. 117.
Sowers, Charles, Jerome, Pa. Tie and rail-fastener. No. 1,001,470; Aug. 22; Sp. p. 4857; Gaz. vol. 169; p. 876.
Spacesaving Appliance Company. (See Kibby, William J., assignor.)
Spacesaving Appliance Company. (See Minns, Walter J., assignor.)
Spackman, Henry S. (See Lesley and Spackman.)
Spade, Henry E. and H. O., Vicksburg, Mich. Universal joint. No. 991,807; May 9; Sp. p. 2092; Gaz. vol. 166; p. 375.
Spade, Herbert O. (See Spade, Henry E. and H. O.)
Spade, Wilbur, *et al.* (See Distler, Frank, assignor.)
Spade, Wilbur L., O'Fallon, Ill. Camper's-outfit box. No. 1,002,937; Sept. 12; Sp. p. 1699; Gaz. vol. 170; p. 294.
Spadone, Walter W., assignor to Gutta Percha & Rubber Manufacturing Company, New York, N. Y. Conveyer-belt. No. 1,009,264; Nov. 21; Sp. p. 3664; Gaz. vol. 172; p. 639.
Spaeth, Joseph, and A. Tokarski, Port Huron, Mich. Trolley-wheel. No. 1,003,380; Sept. 12; Sp. p. 2598; Gaz. vol. 170; p. 447.
Spahn, John, Wilmington, Del. Snow-plow. No. 1,006,307; Oct. 17; Sp. p. 3838; Gaz. vol. 171; p. 672.
Spaine, Thomas F., Conesus, N. Y. Attachment for anvils. No. 990,673; Apr. 25; Sp. p. 5203; Gaz. vol. 165; p. 898.
Spalding, Aiken. (See Rea, George T., assignor.)
Spalding, Frank, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Micrometer-calipers. No. 1,001,471; Aug. 22; Sp. p. 4858; Gaz. vol. 169; p. 877.
Spalding, George, Stockton, Cal. Frame for tilling-machines. No. 991,461; May 2; Sp. p. 1355; Gaz. vol. 166; p. 225.
Spalding, George, Stockton, Cal. Concave disk. No. 1,007,399; Oct. 31; Sp. p. 6260; Gaz. vol. 171; p. 1139.
Spalding, George, Stockton, Cal., assignor to Spalding Plow Company, Pittsburg, Pa. Wheel-bearing. No. 988,219; Mar. 28; Sp. p. 5231; Gaz. vol. 164; p. 927.
Spalding, George, Stockton, Cal., assignor to Spalding Plow Company, Pittsburg, Pa. Plow. No. 988,739; Apr. 4; Sp. p. 970; Gaz. vol. 165; p. 154.
Spalding, George, Cleveland, Ohio, assignor to Spalding Plow Company, Pittsburg, Pa. Moldboard for tilling-machines. No. 988,740; Apr. 4; Sp. p. 972; Gaz. vol. 165; p. 154.
Spalding, George, Cleveland, Ohio, assignor to Spalding Plow Company, Pittsburg, Pa. Tilling-machine. No. 988,741; Apr. 4; Sp. p. 973; Gaz. vol. 165; p. 154.
Spalding Plow Company. (See Spalding, George, assignor.)
Spaney, Alfred, Piermont, and J. W. Mayer, New York, N. Y. Jewelry. No. 1,006,506; Oct. 24; Sp. p. 4303; Gaz. vol. 171; p. 771.
Spangenberg, Albert. (See Keppeler and Spangenberg.)
Spangenberger, Nicholas W., Springfield, Ohio. Bottle-filling apparatus. No. 980,354; Jan. 3; Sp. p. 344; Gaz. vol. 162; p. 62.
Spangler, Louis P., Denver, Colo. Door-check. No. 984,612; Feb. 21; Sp. p. 2963; Gaz. vol. 163; p. 526.
Spangler, Walter J., Philadelphia, Pa., assignor to American Gas & Power Company. Railway-car. No. 981,131; Jan. 10; Sp. p. 2183; Gaz. vol. 162; p. 360.
Spangler, Washington E., Arlington, Va. Horseshoe. No. 1,008,214; Nov. 7; Sp. p. 1218; Gaz. vol. 172; p. 199.
Spannuth, Wilhelm M., and M. R. Dünnebier, Dresden, assignors to C. Herzberg, Cologne, Germany. Paper-feeding mechanism for machines for manufacturing envelops and the like. No. 987,682; Mar. 21; Sp. p. 4056; Gaz. vol. 164; p. 718.
Spansail, George H., Chicago, Ill., assignor to Chicago Laundry Machinery Co. Collar-shaper. No. 1,006,308; Oct. 17; Sp. p. 3840; Gaz. vol. 171; p. 672.
Spanutius, Frederick W., assignor to Halsey Electric Generator Company, Jersey City, N. J. Electric primary battery. No. 983,175; Jan. 31; Sp. p. 6549; Gaz. vol. 162; p. 1139.
Sparger, Samuel W., Durham, N. C. Book-holder. No. 985,851; Mar. 7; Sp. p. 195; Gaz. vol. 164; p. 31.
Sparks, Ernest, London, England. Pressure-operated gas lighting and extinguishing apparatus. No. 992,279; May 16; Sp. p. 3109; Gaz. vol. 166; p. 566.
Sparks, Fred C., New Sharon, Iowa. Detachable metal sole for footwear. No. 999,681; Aug. 1; Sp. p. 954; Gaz. vol. 169; p. 167.
Sparks, Josiah, University Place, Nebr. Airship. No. 1,010,324; Nov. 28; Sp. p. 5859; Gaz. vol. 172; p. 1044.
Sparks, Laban, administrator. (See Perky, Henry D.)
Sparks, Lorenzo H., Warren, Ohio. Brush-holder. No. 985,951; Mar. 7; Sp. p. 415; Gaz. vol. 164; p. 66.
Sparks, Marion F., M. B. Allen, and R. A. Astley, Lansing, Mich. Gasolene-gas generator. No. 984,448; Feb. 14; Sp. p. 2565; Gaz. vol. 163; p. 435.
Sparks, Walter, New York, N. Y. Method of and machine for creasing book-leaves. No. 996,808; July 4; Sp. p. 421; Gaz. vol. 168; p. 71.
Sparks, William, Jackson, Mich. Rotary fan. No. 989,884; Apr. 18; Sp. p. 3407; Gaz. vol. 165; p. 594.
Sparks, William, assignor to The Sparks-Withington Company, Limited, Jackson, Mich. Combined sheet-metal hub and pulley. No. 985,711; Feb. 28; Sp. p. 5358; Gaz. vol. 163; p. 938.
Sparks, William E., and J. H. Shaw, assignors to Sargent & Company, New Haven, Conn. Lock. No. 995,729; June 20; Sp. p. 3563; Gaz. vol. 167; p. 627.
Sparks, William E., and H. G. Collins, assignors to Sargent & Co., New Haven, Conn. Hotel-lock. No. 1,003,818; Sept. 19; Sp. p. 3543; Gaz. vol. 170; p. 630.
Sparks-Withington Company, The. (See Sparks, William, assignor.)
Sparmo, Giovanni, New Britain, Conn. Fender for self-propelled vehicles. No. 1,011,873; Dec. 12; Sp. p. 3299; Gaz. vol. 173; p. 548.
Sparre, Fin, assignor to The E. I. du Pont de Nemours Powder Company, Wilmington, Del. Conversion of lower oxids of nitrogen to higher oxids of nitrogen. No. 1,008,383; Nov. 14; Sp. p. 1671; Gaz. vol. 172; p. 297.
Sparrow, Simon, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Polyphase motor. No. 992,280; May 16; Sp. p. 1312; Gaz. vol. 166; p. 567.
Sparrow, Simon, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Automatic circuit-controller for electric motors. No. 1,006,802; Oct. 24; Sp. p. 4945; Gaz. vol. 171; p. 876.
Sparrow, Woodson L., Murphysboro, Ill. Faucet. No. 988,040; Mar. 28; Sp. p. 4896; Gaz. vol. 164; p. 869.
Spates, Charles D., assignor of one-half to C. Jameson, Digby, Nova Scotia, Canada. Window lift-lock and holder. No. 987,759; Mar. 28; Sp. p. 4221; Gaz. vol. 164; p. 771.
Spaulding, Arthur W., Tacoma, Wash, and C. K. Bender, Oconomowoc, Wis. Cream-extractor. No. 997,425; July 11; Sp. p. 1722; Gaz. vol. 168; p. 312.
Spaulding, Elijah F., Brooklyn, N. Y. Coin-controlled vending-machine. No. 981,891; Jan. 17; Sp. p. 3812; Gaz. vol. 162; p. 644.
Spaulding, Elijah F., Brooklyn, N. Y. Coin-controlled vending-machine. No. 981,892; Jan. 17; Sp. p. 3825; Gaz. vol. 162; p. 645.
Spaulding, Elijah F., Brooklyn, assignor to A. Ward, New York, N. Y. Coin-controlled vending-machine. No. 1,008,384; Nov. 14; Sp. p. 1674; Gaz. vol. 172; p. 298.
Spaulding, Franklin, assignor of one-third to E. L. Benson and one-third to J. W. Holmes, Galva, Ill. Buttonhole-working attachment for sewing-machines. No. 1,000,126; Aug. 8; Sp. p. 1934; Gaz. vol. 169; p. 348.
Spaulding, Jay, Yuma, Ariz. Wagon-reach. No. 988,393; Apr. 4; Sp. p. 228; Gaz. vol. 165; p. 37.
Spaulding & Sons Company, J. (See Moore, George, assignor.)
Spayd, Fred M. (See Spayd, Walker H. and F. M.)
Spayd, Walker H. and F. M., Van Wert, Ohio. Automatic fluid-injector for spraying devices. No. 1,006,016; Oct. 17; Sp. p. 3169; Gaz. vol. 171; p. 569.
Speakman, Willard A., Wilmington, Del. Valve. No. 985,220; Feb. 28; Sp. p. 4252; Gaz. vol. 163; p. 770.
Spear, Carl, assignor to J. W. Spear & Sons, Nuremberg-Doos, Germany. Paper doll. No. 1,008,619; Nov. 14; Sp. p. 2246; Gaz. vol. 172; p. 382.
Spear, Charles W., Muskegon, Mich. Automatic limit-stop mechanism. No. 985,221; Feb. 28; Sp. p. 4254; Gaz. vol. 163; p. 771.
Spear, Ellis, Jr. (See Dickey, George W., assignor.)
Spear, Fannie G., Grantwood, N. J. Clasp. No. 982,102; Jan. 17; Sp. p. 4300; Gaz. vol. 162; p. 717.
Spear, Furman D., assignor to Armspear Manufacturing Company, New York, N. Y. Lamp-burner. No. 1,003,157; Sept. 12; Sp. p. 2143; Gaz. vol. 170; p. 368.
Spear, Lawrence Y., Quincy, Mass., assignor to Electric Boat Company, New York, N. Y. Compensating for torpedoes discharged from submarine boats. No. 997,713; July 11; Sp. p. 2323; Gaz. vol. 168; p. 411.
Spear & Sons, J. W. (See Spear, Carl, assignor.)
Spear, Wickham B., Los Angeles, Cal. Shade-holder for electric fixtures and the like. No. 993,419; May 30; Sp. p. 5558; Gaz. vol. 166; p. 1020.
Spears, Jesse R., assignor to Goshen Churn & Ladder Company, Goshen, Ind. Extension-ladder. No. 982,890; Jan. 31; Sp. p. 5962; Gaz. vol. 162; p. 1046.
Spears, Mathew E., assignor to A. P. Cosand, Singer, La. Logging-car coupling. No. 999,348; Aug. 1; Sp. p. 304; Gaz. vol. 169; p. 54.
Spears, William H. D., Los Angeles, Cal. Massage-machine. No. 1,008,215; Nov. 7; Sp. p. 1220; Gaz. vol. 172; p. 200.

Alphabetical list of patentees—Continued.

Specht, Christian, *et al.* (See Johnson, Edward H., assignor.)
Specht, Joseph C., *et al.* (See Johnson, Edward H., assignor.)
Specialty Shoe Machinery & Tool Company. (See Crowe, John, assignor.)
Speck, Isaiah, Elizabethville, Pa. Ensilage-cover. No. 992,818; May 23; Sp. p. 4255; Gaz. vol. 166; p. 785.
Speck, Robert D., Rockford, Wash. Veterinary dental halter. No. 1,005,666; Oct. 10; Sp. p. 2419; Gaz. vol. 171; p. 416.
Speck, Theodor. (See Bauer and Speck.)
Speckel, Julie, St. Petersburg, Russia. Device for securing copy-books in the correct position for writing exercises. No. 1,012,739; Dec. 26; Sp. p. 5185; Gaz. vol. 173; p. 929.
Speed, James B. (See Cottrell and Speed.)
Speed, James B., assignor of one-half to E. H. Webb, Berkeley, Cal. Stub-book. No. 997,471; July 11; Sp. p. 1807; Gaz. vol. 168; p. 327.
Speed, James B., assignor of one-half to E. H. Webb, Berkeley, Cal. Check-book and the like. (Reissue.) No. 13,342; Dec. 19; Sp. p. 4826; Gaz. vol. 173; p. 828.
Speer, Clarence E., Hillsdale, Mich. Gas-purifier. No. 995,103; June 13; Sp. p. 2208; Gaz. vol. 167; p. 384.
Speer, Edwin F., Newcomer, Pa. Recorder. No. 999,412; Aug. 1; Sp. p. 436; Gaz. vol. 169; p. 76.
Speer, Erastus A. (See Wilson and Green, assignors.)
Speer, Preston C., Hovey township, Armstrong county, Pa. Slip-socket. No. 991,176; May 2; Sp. p. 742; Gaz. vol. 166; p. 125.
Speer, William, Baltimore, Md. Calipers. No. 1,007,400; Oct. 31; Sp. p. 6261; Gaz. vol. 171; p. 1139.
Speer, William P., St. Louis, Mo. Shoe-crimper. No. 985,467; Feb. 28; Sp. p. 4811; Gaz. vol. 163; p. 855.
Speice, Wilbert B., Payne, Ohio. Box-lid supporter. No. 991,102; May 2; Sp. p. 569; Gaz. vol. 166; p. 99.
Speich, Cora, Sacramento, Cal. Fly-paper holder. No. 1,012,466; Dec. 19; Sp. p. 4594; Gaz. vol. 173; p. 787.
Speicher, Alfred W. (See Clemow, Heid, and Speicher.)
Speiden, Eben C., Niagara Falls, N. Y. Umbrella. No. 1,007,812; Nov. 7; Sp. p. 370; Gaz. vol. 172; p. 58.
Speiden, Eben C., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Electric furnace. No. 992,281; May 16; Sp. p. 3113; Gaz. vol. 166; p. 567.
Speiden, Eben C., assignor to International Acheson Graphite Company, Niagara Falls, N. Y. Electrode. No. 1,007,151; Oct. 31; Sp. p. 5732; Gaz. vol. 171; p. 1051.
Speigelberg, William S. (See Severson, Myron L., assignor.)
Speight, Crittenden R., Burgaw, N. C. Expansion-joint. No. 1,006,507; Oct. 24; Sp. p. 4304; Gaz. vol. 171; p. 772.
Spellacy, Daniel J. (See Bumstead, Albert W., assignor.)
Spellacy, William L., Cleveland, Ohio. Nut-lock. No. 996,892; July 4; Sp. p. 606; Gaz. vol. 168; p. 100.
Speller, Frank N., McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Rolled metal article. No. 1,006,600; Oct. 24; Sp. p. 4524; Gaz. vol. 171; p. 806.
Speller, Frank N., McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Rolling steel. No. 1,006,601; Oct. 24; Sp. p. 4526; Gaz. vol. 171; p. 806.
Speller, Frank N., assignor to The National Tube Company, Pittsburgh, Pa. Removing surface defects. No. 1,006,602; Oct. 24; Sp. p. 4528; Gaz. vol. 171; p. 807.
Spellings, Gideon C., Buena Vista, Tenn. Pitman. No. 987,760; Mar. 28; Sp. p. 4222; Gaz. vol. 164; p. 771.
Spellmeyer, Charles W., St. Louis, Mo. Expansion-valve for refrigerating systems. No. 1,002,463; Sept. 5; Sp. p. 646; Gaz. vol. 170; p. 93.
Spellmeyer, Ernest H., Jr. (See Heckel and Spellmeyer.)
Spellmon, William H., assignor of one-half to S. Buser, Haledon, N. J. Non-refillable bottle. No. 984,400; Feb. 14; Sp. p. 2473; Gaz. vol. 163; p. 419.
Spenard, Homer H., Remington, Ind. Lawn-mower. No. 984,861; Feb. 21; Sp. p. 3473; Gaz. vol. 163; p. 614.
Spencer, Alvah C., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 1,001,701; Aug. 29; Sp. p. 5347; Gaz. vol. 169; p. 986.
Spencer, Arthur C., Washington, D. C. Producing cement and products thereof. No. 1,012,467; Dec. 19; Sp. p. 4595; Gaz. vol. 173; p. 788.
Spencer, Arthur E., San Francisco, and F. C. Thomas, Mill Valley, Cal. Means for automatically arresting talking-machines. No. 998,807; July 25; Sp. p. 4822; Gaz. vol. 168; p. 871.
Spencer, Arthur E., San Francisco, and F. C. Thomas, Mill Valley, Cal. Means for automatically arresting talking-machines. (Reissue.) No. 13,305; Oct. 31; Sp. p. 6839; Gaz. vol. 171; p. 1230.
Spencer, Christopher J. (See Quick and Spencer.)
Spencer, Christopher M., Windsor, assignor to The Universal Machine Screw Company, Hartford, Conn. Metal-working machine. No. 988,670; Apr. 4; Sp. p. 813; Gaz. vol. 165; p. 131.
Spencer, Clarence L. (See Smith and Spencer.)
Spencer, Edward B. T., Rome, Italy. Kaleidoscopic top. No. 984,044; Feb. 14; Sp. p. 1727; Gaz. vol. 163; p. 297.
Spencer, Egbert, Beekman, assignor to Von Lengerke and Detmold, New York, N. Y. Line-drying reel. No. 987,411; Mar. 21; Sp. p. 3496; Gaz. vol. 164; p. 624.
Spencer, Fred, Tenino, Wash. Cattle-guard. No. 1,005,347; Oct. 10; Sp. p. 1701; Gaz. vol. 171; p. 304.
Spencer, Fred W. (See Lecuyer, Frederick F., assignor.)
Spencer, Frederick K., and O. Bennett, Binghamton, N. Y. Insulator-bracket for electrical work. No. 998,649; July 25; Sp. p. 4466; Gaz. vol. 168; p. 816.
Spencer, George F. (See Meyer, Julius, assignor.)
Spencer, George F. (See Spencer, William H., assignor.)
Spencer, Harold R., *et al.* (See Van Schoick, Charles L., assignor.)
Spencer, Henry M., Cheraw, S. C. Guano-distributer. No. 988,220; Mar. 28; Sp. p. 5233; Gaz. vol. 164; p. 928.
Spencer, Henry R. C., Granville, N. Y. Telephone-rent-collecting device. No. 980,690; Jan. 3; Sp. p. 1115; Gaz. vol. 162; p. 178.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Hose connection. No. 980,355; Jan. 3; Sp. p. 348; Gaz. vol. 162; p. 63.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Hose connection. No. 981,705; Jan. 17; Sp. p. 3418; Gaz. vol. 162; p. 578.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Connection for pneumatic systems. No. 981,706; Jan. 17; Sp. p. 3420; Gaz. vol. 162; p. 579.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning-tool and connection. No. 981,893; Jan. 17; Sp. p. 3834; Gaz. vol. 162; p. 647.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Apparatus for forcing air. No. 982,393; Jan. 24; Sp. p. 4897; Gaz. vol. 162; p. 848.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Cleaning-tool. No. 982,640; Jan. 24; Sp. p. 5401; Gaz. vol. 162; p. 932.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Pneumatic dust-separator. No. 999,269; Aug. 1; Sp. p. 147; Gaz. vol. 169; p. 28.
Spencer, Ira H., assignor to The Spencer Turbine Cleaner Company, Hartford, Conn. Pneumatic dust-separator. No. 999,604; Aug. 1; Sp. p. 804; Gaz. vol. 169; p. 140.
Spencer, Joseph M., assignor of one-half to J. J. Sweeney, Philadelphia, Pa. Wool-drying apparatus. No. 983,577; Feb. 7; Sp. p. 702; Gaz. vol. 163; p. 109.
Spencer Lens Company. (See Ott and Leuchsenring, assignors.)
Spencer, Louis R., assignor to J. J. McIntyre, Hartford, Conn. Spark-plug. No. 988,394; Apr. 4; Sp. p. 230; Gaz. vol. 165; p. 37.
Spencer, Manlius F., *et al.* (See Van Schoick, Charles L., assignor.)
Spencer Moulton Rim Syndicate Limited, The. (See Webb, George, assignor.)
Spencer, Norman J., Vancouver, British Columbia, Canada. Car-fender. No. 1,001,472; Aug. 22; Sp. p. 4861; Gaz. vol. 169; p. 877.
Spencer, Oscar A., Bloomer, Wis., assignor of two-thirds to J. G. Prueher and H. E. McWithey. Switchboard-plug. No. 1,004,306; Sept. 26; Sp. p. 4673; Gaz. vol. 170; p. 827.
Spencer, Robert C., Jr., River Forest, Ill. Appliance for reversing casement-windows. No. 1,008,385; Nov. 14; Sp. p. 1676; Gaz. vol. 172; p. 298.
Spencer Turbine Cleaner Company, The. (See Spencer, Ira H., assignor.)
Spencer, William B., Chicago, Ill. Measuring device. No. 981,707; Jan. 17; Sp. p. 3422; Gaz. vol. 162; p. 579.
Spencer, William F., Jr. (See Davis, Elmer E., assignor.)
Spencer, William H., New York, N. Y., assignor to G. F. Spencer, Newark, N. J. Reflecting fixture or chandelier. No. 990,400; Apr. 25; Sp. p. 4561; Gaz. vol. 165; p. 805.
Spencer, William H., New York, N. Y., assignor to G. F. Spencer, Newark, N. J. Illuminating device. No. 996,154; June 27; Sp. p. 4468; Gaz. vol. 167; p. 808.
Spencer, William H., New York, N. Y., assignor to G. F. Spencer, Newark, N. J. Illuminating device. No. 1,007,498; Oct. 31; Sp. p. 6478; Gaz. vol. 171; p. 1172.
Spengler, Charles C., Rockford, assignor to Automatic Pencil Sharpener Company, Chicago, Ill. Pencil-holding means for pencil-sharpeners. No. 998,044; July 18; Sp. p. 3129; Gaz. vol. 168; p. 569.
Spengler, Charles H., *et al.* (See Moses, Mose, assignor.)
Spenst, Gerhard, Gretna, Manitoba, Canada. Grain-separator. No. 996,155; June 27; Sp. p. 4470; Gaz. vol. 167; p. 808.
Sperber, Bernhard, *et al.* (See Riedl, Ferdinand, assignor.)
Sperberg, Edward H., assignor to The World Manufacturing and Specialty Company, Chicago, Ill. Stamp-vending machine. No. 997,714; July 11; Sp. p. 2328; Gaz. vol. 168; p. 411.
Sperl, Anthony, Pittsburg, Pa. Collapsible chair. No. 1,004,489; Sept. 26; Sp. p. 5052; Gaz. vol. 170; p. 889.
Sperry, Herbert B. (See Johnson and Sperry.)
Spery, Charles F., Chicago, Ill. Fuse-cap. No. 1,001,473; Aug. 22; Sp. p. 4863; Gaz. vol. 169; p. 877.

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Spery, Charles F., Chicago, Ill. Magazine developing-camera. No. 1,003,533; Sept. 19; Sp. p. 2920; Gaz. vol. 170; p. 533.
Spery, Philmore F., Chicago, Ill. Magazine developing-camera. No. 1,003,534; Sept. 19; Sp. p. 2924; Gaz. vol. 170; p. 534.
Speyer, George W., Philadelphia, Pa. Dispensing device for soda-water fountains. No. 992,282; May 16; Sp. p. 3114; Gaz. vol. 166; p. 567.
Sphar, Russell H., and E. Ostermier, Charleroi, Pa. Adjusting mechanism for the lamps of automobiles. No. 999,129; July 25; Sp. p. 5526; Gaz. vol. 168; p. 982.
Spicer Brothers Limited. (See Pottinger, Edwin J., assignor.)
Spicer, Clarence W., Plainfield, N. J. Universal joint. No. 996,156; June 27; Sp. p. 4472; Gaz. vol. 167; p. 808.
Spicer, William C., Penacook, N. H. Cord-adjuster. No. 1,000,045; Aug. 8; Sp. p. 1709; Gaz. vol. 169; p. 319.
Spickerman, Theodore J., McKeesport, Pa. Tie and rail-fastener. No. 1,006,309; Oct. 17; Sp. p. 3842; Gaz. vol. 171; p. 673.
Spickernagle, William, Owensboro, Ky. Vehicle top-fastener. No. 1,010,968; Dec. 5; Sp. p. 1256; Gaz. vol. 173; p. 199.
Spiegel, Leopold. (See Sulzberger and Spiegel.)
Spiegelman, Wolf, New York, N. Y. Shoe. No. 991,036; May 2; Sp. p. 435; Gaz. vol. 166; p. 75.
Spielman, Charles, Brooklyn, N. Y. Consecutive-numbering machine. No. 1,007,314; Oct. 31; Sp. p. 6075; Gaz. vol. 171; p. 1109.
Spielman, Max H., assignor to J. F. O'Brien, New York, N. Y. Push-button switch. No. 994,040; May 30; Sp. p. 6864; Gaz. vol. 166; p. 1233.
Spierling, Charles, Dalton, Ill. Beehive. No. 980,691; Jan. 3; Sp. p. 1117; Gaz. vol. 162; p. 178.
Spies, Frederick O., Worth, N. Y. Basket. No. 991,037; May 2; Sp. p. 436; Gaz. vol. 166; p. 75.
Spies, Peter H. F., assignor of one-half to J. F. Keenan, Port Chester, N. Y. Internal-combustion engine. No. 1,003,535; Sept. 19; Sp. p. 2929; Gaz. vol. 170; p. 535.
Spieth, Karl A., Amherst, Nebr. Windmill. No. 1,009,935; Nov. 28; Sp. p. 5057; Gaz. vol. 172; p. 913.
Spiker, Joseph T. (See Melloch and Lewry, assignors.)
Spiller, Wilhelm, assignor to Pulvermacher & Bremermann G. m. b. H., Berlin, Germany. Modeling-machine. No. 999,270; Aug. 1; Sp. p. 149; Gaz. vol. 169; p. 28.
Spillman, Edward O., assignor to Herschell Spillman Company, North Tonawanda, N. Y. Merry-go-round. No. 987,023; Mar. 14; Sp. p. 2653; Gaz. vol. 164; p. 459.
Spilman, Clinton J. (See Wolf and Spilman.)
Spilsbury, Edmund G., New Rochelle, assignor to Just Process Company, Syracuse, N. Y. Separating of solids and liquids. No. 994,281; June 6; Sp. p. 370; Gaz. vol. 167; p. 63.
Spilsbury, Edmund G., New Rochelle, assignor to Just Process Company, Syracuse, N. Y. Apparatus for separating solid particles from gaseous fluids. No. 994,282; June 6; Sp. p. 371; Gaz. vol. 167; p. 63.
Spindler, Perry T., assignor to American Street and Station Indicator Company, Chicago, Ill. Pneumatic operating device for street and station indicators. No. 986,098; Mar. 7; Sp. p. 728; Gaz. vol. 164; p. 117.
Spindler, Perry T., assignor to American Street and Station Indicator Company, Chicago, Ill. Operating device for street and station indicators. No. 992,455; May 16; Sp. p. 3490; Gaz. vol. 166; p. 628.
Spindler, Perry T., assignor to American Street and Station Indicator Company, Chicago, Ill. Street and station indicator. No. 1,006,141; Oct. 17; Sp. p. 3456; Gaz. vol. 171; p. 613.
Spink, Edward J., and J. A. Miller; said Spink assignor to R. S. Humphrey, Council Bluffs, Iowa. Pasteurizing-machine. No. 986,237; Mar. 7; Sp. p. 1005; Gaz. vol. 164; p. 161.
Spinks, Charles C., Memphis, Mo. Attachment for moving-picture devices. No. 1,002,464; Sept. 5; Sp. p. 647; Gaz. vol. 170; p. 93.
Spinks, Charles C., Washington, D. C., assignor to M. C. Spinks and M. A. Poor, Memphis, Mo. Photograph-shutter. No. 1,003,536; Sept. 19; Sp. p. 2931; Gaz. vol. 170; p. 535.
Spinks, Charles C., Washington, D. C., assignor to M. C. Spinks and M. A. Poor, Memphis, Mo. Variable-speed gearing. No. 1,006,017; Oct. 17; Sp. p. 3171; Gaz. vol. 171; p. 569.
Spinks, Charles C., assignor to M. C. Spinks and M. A. Poor, Memphis, Mo. Film-feed device. No. 1,007,012; Oct. 24; Sp. p. 5403; Gaz. vol. 171; p. 947.
Spinks, M. C., *et al.* (See Spinks, Charles C., assignor.)
Spinner, George A., Cincinnati, Ohio. Lathe. No. 1,002,327; Sept. 5; Sp. p. 331; Gaz. vol. 170; p. 46.
Spinner, Joseph. (See Aydt, Albert A., assignor.)
Spinnerei und Weberei Steinen A. G. (See Koechlin, Albert G., assignor.)
Spinney, Burton A., Atlantic, Iowa. Hay-loader. No. 981,894; Jan. 17; Sp. p. 3836; Gaz. vol. 162; p. 647.
Spinney, Fayette A., La Junta, Colo. Spigot. No. 1,011,260; Dec. 12; Sp. p. 1943; Gaz. vol. 173; p. 334.
Spirella Company, The. (See Beeman, Marcus M., assignor.)
Spirella Company, The. (See Kitchen, John F., assignor.)
Spirella Company, The. (See Leffel, Clarence E., assignor.)
Spiro, Charles, New York, N. Y. Back-spacing mechanism. No. 987,761; Mar. 28; Sp. p. 4223; Gaz. vol. 164; p. 771.
Spiro, Charles, New York, N. Y. Type-bar mechanism. No. 987,762; Mar. 28; Sp. p. 4226; Gaz. vol. 164; p. 772.
Spiro, Charles, New York, N. Y. Line-spacing mechanism. No. 987,763; Mar. 28; Sp. p. 4229; Gaz. vol. 164; p. 772.
Spiro, Charles, New York, N. Y. Platen-shifting mechanism. No. 987,764; Mar. 28; Sp. p. 4233; Gaz. vol. 164; p. 773.
Spiro, Charles, New York, N. Y. Line-lock and margin-stop mechanism. No. 987,765; Mar. 28; Sp. p. 4237; Gaz. vol. 164; p. 773.
Spiro, Charles, New York, N. Y. Tabulating mechanism. No. 987,766; Mar. 28; Sp. p. 4241; Gaz. vol. 164; p. 774.
Spiro, Charles, New York, N. Y. Carriage-control mechanism. No. 987,767; Mar. 28; Sp. p. 4246; Gaz. vol. 164; p. 774.
Spiro, Charles, New York, N. Y. Ribbon mechanism. No. 990,917; May 2; Sp. p. 190; Gaz. vol. 166; p. 34.
Spiro, Louis, Clarksburg, W. Va. Attachment for suit-cases and the like. No. 1,001,563; Aug. 22; Sp. p. 5036; Gaz. vol. 169; p. 908.
Spitko, August P., Salt Lake City, Utah. Non-sifting envelop. No. 996,532; June 27; Sp. p. 5351; Gaz. vol. 167; p. 936.
Spitzer, Bernhard, assignor to Corporation of Dellwik-Fleischer Wassergas-Gesellschaft m. b. H., Frankfort-on-the-Main, Germany. Water-gas producer. No. 981,708; Jan. 17; Sp. p. 3424; Gaz. vol. 162; p. 580.
Spitzig, Annie H., Detroit, Mich. Tea and coffee pot. No. 1,006,886; Oct. 24; Sp. p. 5156; Gaz. vol. 171; p. 906.
Spitzli, George H. (See Burnop, William A., assignor.)
Spivak, Bernard. (See Spivak, Isaak, assignor.)
Spivak, Isaak, Brooklyn, assignor of one-half to B. Spivak, Albany, N. Y. Attachment for sewing-machines. No. 1,003,666; Sept. 19; Sp. p. 3221; Gaz. vol. 170; p. 581.
Spivey, Lillian H., Arnim, Tex. Adjustable light shade and reflector. No. 985,852; Mar. 7; Sp. p. 197; Gaz. vol. 164; p. 32.
Spivey, Thomas R., Georgetown, S. C. Blackboard. No. 992,611; May 16; Sp. p. 3837; Gaz. vol. 166; p. 684.
Spivey, Thomas S., Cincinnati, Ohio. Musical advertising toy. No. 986,776; Mar. 14; Sp. p. 2159; Gaz. vol. 164; p. 376.
Spivey, Thomas S., Cincinnati, Ohio. Roller-pole toy. No. 1,003,537; Sept. 19; Sp. p. 2933; Gaz. vol. 170; p. 535.
Splettstosser, Fritz, Stryker, Tex. Folding penholder. No. 999,605; Aug. 1; Sp. p. 806; Gaz. vol. 169; p. 141.
Splitdorf, Charles F. (See Hubert, Theodore, assignor.)
Splitdorf, John, assignor to C. F. Splitdorf, New York, N. Y. Armature for electric generators. No. 1,004,599; Oct. 3; Sp. p. 109; Gaz. vol. 171; p. 19.
Splittorf, Johan G., Cleveland, Ohio. Baker's shovel. No. 1,008,620; Nov. 14; Sp. p. 2247; Gaz. vol. 172; p. 382.
Spoat, Josephine L., *et al.* (See Buell, Harry J., assignor.)
Spofford, Christopher S., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Folding carriage. No. 1,005,348; Oct. 10; Sp. p. 1702; Gaz. vol. 171; p. 304.
Spofford, George E., Blackstone, Mass. Guide-wire for spinning and twisting machines. No. 991,555; May 9; Sp. p. 1567; Gaz. vol. 166; p. 290.
Spohrer, Gregory J., Franklin, Pa. Vehicle-wheel. No. 993,466; May 30; Sp. p. 5655; Gaz. vol. 166; p. 1035.
Spohrer, Gregory J., Franklin, Pa. Engine-starting device. No. 998,418; July 18; Sp. p. 3971; Gaz. vol. 168; p. 703.
Spohrer, Gregory J., Franklin, Pa. Engine-starting device. No. 1,002,465; Sept. 5; Sp. p. 648; Gaz. vol. 170; p. 93.
Spolander, Fridolf N., Chicago, Ill. Aerial craft. No. 1,012,927; Dec. 26; Sp. p. 5637; Gaz. vol. 173; p. 992.
Sponenburg, Hiram H., Gurnee, assignor to O. R. Barnett, Chicago, Ill. Device for checking the creep of railway-rails. No. 994,795; June 13; Sp. p. 1521; Gaz. vol. 167; p. 280.
Sponenburg, Hiram H., Gurnee, assignor to O. R. Barnett, Chicago, Ill. Rail-stay. No. 998,589; July 18; Sp. p. 4315; Gaz. vol. 168; p. 762.
Sponenburg, Hiram H., Gurnee, assignor to O. R. Barnett, Chicago, Ill. Rail-stay. No. 998,590; July 18; Sp. p. 4317; Gaz. vol. 168; p. 763.
Sponenburg, Hiram H., Gurnee, assignor to O. R. Barnett, Chicago, Ill. Rail-anchor. No. 1,001,177; Aug. 22; Sp. p. 4252; Gaz. vol. 169; p. 778.
Sponenburg, Hiram H., Gurnee, assignor to O. R. Barnett, Chicago, Ill. Anticreeper. No. 1,004,600; Oct. 3; Sp. p. 110; Gaz. vol. 171; p. 19.
Sponsel, Charles W. (See Kidder and Sponsel.)
Sponsel, Charles W., Hartford, Conn., assignor to Columbian Rope Company, Auburn, N. Y. Rope-laying machine. No. 991,659; May 9; Sp. p. 1801; Gaz. vol. 166; p. 327.
Spoon, John L., Globe, Ariz. Door-check. No. 1,002,328; Sept. 5; Sp. p. 334; Gaz. vol. 170; p. 47.

Alphabetical list of patentees—Continued.

Spooner, Alley W., Leonidas, Mich. Post-molding machine. No. 997,100; July 4; Sp. p. 1066; Gaz. vol. 168; p. 172.
Spooner, Harry, and S. Albertson, Wheeling, Mo. Button-fastener. No. 983,410; Feb. 7; Sp. p. 324; Gaz. vol. 163; p. 55.
Spooner, William P., Carievale, Saskatchewan, Canada. Shocking-machine. No. 982,447; Jan. 24; Sp. p. 5028; Gaz. vol. 162; p. 869.
Spoonts, Joseph L., and E. M. Eubank, Ballinger, Tex. Wheel. No. 989,437; Apr. 11; Sp. p. 2425; Gaz. vol. 165; p. 409.
Spoor, John S., *et al.* (See Blake, Gene S., assignor.)
Spore, Theodore, Kingston, N. Y. Car-loading device. No. 980,692; Jan. 3; Sp. p. 1118; Gaz. vol. 162; p. 179.
Spotts, Ralph L. (See Lord, John D., assignor.)
Sprado, Carl G., assignor to Allis-Chalmers Company, Milwaukee, Wis. Unloading device. No. 1,002,770; Sept. 5; Sp. p. 1310; Gaz. vol. 170; p. 197.
Sprague, Charles O. and F. E., Bakersfield, Cal. Well-pump. No. 1,007,152; Oct. 31; Sp. p. 5734; Gaz. vol. 171; p. 1051.
Sprague, Clarence B., Salt Lake City, Utah, assignor to United States Smelting, Refining & Mining Company. Treating corrosive gaseous fumes or smoke. No. 984,498; Feb. 14; Sp. p. 2683; Gaz. vol. 163; p. 451.
Sprague, Clarence B., Salt Lake City, Utah, assignor to United States Smelting, Refining & Mining Company, Portland, Me. Apparatus for treating acidulous gases produced in the smelting or treatment of ores. No. 992,391; May 16; Sp. p. 3374; Gaz. vol. 166; p. 608.
Sprague, Frank E. (See Sprague, Charles O. and F. E.)
Sprague, Frederick B., Smyrna, N. Y. Weeder. No. 1,010,084; Nov. 28; Sp. p. 5384; Gaz. vol. 172; p. 965.
Sprague, Frederick H., assignor of one-half to F. L. Grout, Orange, Mass. Fastening device for trousers. No. 1,008,441; Nov. 14; Sp. p. 1842; Gaz. vol. 172; p. 317.
Sprague, James H., Norwalk, Ohio. Umbrella-tip. No. 988,904; Apr. 4; Sp. p. 1280; Gaz. vol. 165; p. 205.
Sprague, James H., Norwalk, Ohio. Wind-shield. No. 995,301; June 13; Sp. p. 2584; Gaz. vol. 167; p. 448.
Sprague, James H., Norwalk, Ohio. Wind-shield. No. 1,002,771; Sept. 5; Sp. p. 1312; Gaz. vol. 170; p. 197.
Sprague, Newton G. (See Walker and Sprague.)
Sprague, Warner & Company. (See Gerster and Hug, assignors.)
Sprague, Wilson, Portland, Me. Friction driving mechanism. No. 1,000,632; Aug. 15; Sp. p. 3067; Gaz. vol. 169; p. 557.
Spraley, Wilbur, Houston, Ohio. Cream-tester. No. 995,192; June 13; Sp. p. 2378; Gaz. vol. 167; p. 412.
Sprankle, James R., *et al.* (See Palmer, Herbert R., assignor.)
Spratley, George, assignor of one-half to T. Byrne, Sherman, Tex. Ash-pan. No. 992,696; May 16; Sp. p. 3991; Gaz. vol. 166; p. 712.
Sprengle, Henry C., Cleveland, Ohio. Metal-bending attachment for presses. No. 1,002,329; Sept. 5; Sp. p. 335; Gaz. vol. 170; p. 47.
Spriggs, James M. (See Fogelsong, George W., assignor.)
Sprinchorn, Ulrich, Jamestown, N. Y. Foldable window-screen. No. 1,007,499; Oct. 31; Sp. p. 6481; Gaz. vol. 171; p. 1172.
Spring, Frank H. (See Owen, Charles J., assignor.)
Spring, Joseph, Chicago, Ill. Gas-flasher apparatus. No. 1,003,538; Sept. 19; Sp. p. 2933; Gaz. vol. 170; p. 536.
Spring Motor Fan Company. (See Hansen, William P., assignor.)
Springer, Aaron M., Portland, Oreg. Ironing-board. No. 1,012,468; Dec. 19; Sp. p. 4597; Gaz. vol. 173; p. 788.
Springer & Burrus. (See Jackson, John L., assignor.)
Springer, Daniel E., Tamaqua, Pa. Glass-cutter. No. 992,819; May 23; Sp. p. 4255; Gaz. vol. 166; p. 785.
Springer, Emil R., assignor of one-half to C. Young, Jasper, Ark. Lock. No. 1,009,698; Nov. 21; Sp. p. 4567; Gaz. vol. 172; p. 787.
Springer, Henry A., Denver, Colo. Roasting and baking pan. No. 985,712; Feb. 28; Sp. p. 5359; Gaz. vol. 163; p. 938.
Springer, Oscar M. (See Morgan, Mathew B, assignor.)
Springer, William N., Peoria, Ill., assignor to Avery Company. Steam gang-plow. No. 982,448; Jan. 24; Sp. p. 5035; Gaz. vol. 162; p. 869.
Springer, William N., Peoria, Ill., assignor, by mesne assignments, to Avery Company. Steam-plow. No. 998,267; July 18; Sp. p. 3631; Gaz. vol. 168; p. 649.
Springford, Charles W., Toronto, Ontario, Canada. Ironing-board. No. 987,267; Mar. 21; Sp. p. 3193; Gaz. vol. 164; p. 577.
Springsteen, Nelson E., Royal Oak, Mich. Ticket-printing device. No. 991,660; May 9; Sp. p. 1805; Gaz. vol. 166; p. 328.
Spross, Elias F., Okemos, and P. R. Woodworth, Lansing, Mich. Rail-tie. No. 992,283; May 16; Sp. p. 3116; Gaz. vol. 166; p. 568.
Sprouls, Charles E., Hereford, Tex. Division-block for baling-presses. No. 993,897; May 30; Sp. p. 6573; Gaz. vol. 166; p. 1184.
Sprout, Waldron & Company. (See Johnson, David B., assignor.)
Spruance, Daniel C., *et al.*, trustees. (See Blackmore, Henry S., assignor.)
Spruce, Clifford J. (See Deknatel and Spruce.)
Spruce, Clifford J., Chicago, Ill., assignor to Mackie-Lovejoy Manufacturing Company. Garment-hanger. No. 980,693; Jan. 3; Sp. p. 1120; Gaz. vol. 162; p. 179.
Sprung, Edmund, and H. Rose, Detroit, Mich. Carbureter. No. 989,515; Apr. 11; Sp. p. 2577; Gaz. vol. 165; p. 436.
Sprung, George, Vancouver, British Columbia, Canada. Automobile wheel-help. No. 986,099; Mar. 7; Sp. p. 729; Gaz. vol. 164; p. 117.
Spühl, Heinrich, St. Gallen, Switzerland. Apparatus for facilitating the removal of the contents of boxes. No. 1,011,513; Dec. 12; Sp. p. 2504; Gaz. vol. 173; p. 426.
Spuhr, John B. (See Hill, Alfred, assignor.)
Spurge, Edward C., Niagara Falls, N. Y. Sterilizer-faucet. No. 1,000,206; Aug. 8; Sp. p. 2109; Gaz. vol. 169; p. 375.
Spurlock, John W., Valdosta, Ga. Weighing-scale. No. 995,922; June 20; Sp. p. 3994; Gaz. vol. 167; p. 694.
Spurney, Anton B., *et al.* (See Deeds, Fred F., assignor.)
Spurrier, Harry, Detroit, Mich. Treating coke. No. 1,007,153; Oct. 31; Sp. p. 5736; Gaz. vol. 171; p. 1051.
Squier, George A., Cleveland, Ohio. Eyeglass-mounting. No. 989,073; Apr. 11; Sp. p. 1650; Gaz. vol. 165; p. 287.
Squier, George A., Cleveland, Ohio. Eyeglass-mounting. No. 1,003,539; Sept. 19; Sp. p. 2935; Gaz. vol. 170; p. 536.
Squier, George O., U. S. Army. Multiplex telephony and telegraphy. No. 980,356; Jan. 3; Sp. p. 349; Gaz. vol. 162; p. 63.
Squier, George O., U. S. Army. Multiplex telephony and telegraphy. No. 980,357; Jan. 3; Sp. p. 355; Gaz. vol. 162; p. 64.
Squier, George O., U. S. Army. Multiplex telephony and telegraphy. No. 980,358; Jan. 3; Sp. p. 360; Gaz. vol. 162; p. 64.
Squier, George O., U. S. Army. Multiplex telephony and telegraphy. No. 980,359; Jan. 3; Sp. p. 364; Gaz. vol. 162; p. 64.
Squire, Edwin E., Black Diamond, Cal. Clothes-line support. No. 1,011,514; Dec. 12; Sp. p. 2506; Gaz. vol. 173; p. 426.
Squires, Charles E., Cleveland, Ohio. Steam-trap. No. 980,694; Jan. 3; Sp. p. 1121; Gaz. vol. 162; p. 179.
Squires, Oliver P. M. (See Lay and Squires.)
Squires, Oliver P. M., Laporte, Ind. Wire stretching and holding device. No. 1,006,018; Oct. 17; Sp. p. 3173; Gaz. vol. 171; p. 570.
Squires, Robert H., East Quogue, N. Y. Flooring-clamp. No. 990,074; Apr. 18; Sp. p. 3804; Gaz. vol. 165; p. 659.
Squyars, Alexander E., assignor of one-half to M. G. McKay, Laurinburg, N. C. Automatic fluid-signal and air connection. No. 1,012,469; Dec. 19; Sp. p. 4598; Gaz. vol. 173; p. 788.
St. Clair, Guy N., Pana, Ill. Elevator-bucket deflector. No. 1,008,995; Nov. 14; Sp. p. 3050; Gaz. vol. 172; p. 507.
St. Clair, Guy N., Springfield, Ill. Elevator. No. 1,008,996; Nov. 14; Sp. p. 3051; Gaz. vol. 172; p. 507.
St. Cyr, David, Winnebago, Nebr. Sanitary cuspidor. No. 992,820; May 23; Sp. p. 4257; Gaz. vol. 166; p. 785.
St. Helens, Joseph B., Rochester, N. Y. Fruit-chute. No. 1,011,261; Dec. 12; Sp. p. 1944; Gaz. vol. 173; p. 335.
St. John, Carlisle, Des Moines, Iowa. Furnace-chimney and ventilator. No. 1,011,497; Dec. 12; Sp. p. 2466; Gaz. vol. 173; p. 420.
St. Joseph Iron Works, The. (See Eklund, John, assignor.)
St. Louis Paper Can & Tube Company. (See Kuechenmiester, John H., assignor.)
St. Louis Street Flushing Machine Co. (See Ratican, William, assignor.)
St. Peter, William, assignor of one-third to T. Lamy and one-third to W. Major, Manchester, N. H. Whirl for spinning-frames. No. 1,007,614; Oct. 31; Sp. p. 6733; Gaz. vol. 171; p. 1211.
Staab, Joseph. (See Welsbacher and Staab.)
Stableford, William, London, England, assignor to The Rotex Manufacturing Company. Multiple copying-machine. No. 981,132; Jan. 10; Sp. p. 2187; Gaz. vol. 162; p. 360.
Stableford, William, London, England, assignor to The Rotex Manufacturing Company. Multiple copying-machine. No. 982,543; Jan. 24; Sp. p. 5221; Gaz. vol. 162; p. 901.
Stacey, Thomas, Wilkes-Barre, Pa. Brake for mine-cars. No. 984,045; Feb. 14; Sp. p. 1728; Gaz. vol. 163; p. 298.
Stächelin, Gregor. (See Handschin and Kuny, assignors.)
Stackhouse, George C., Oakland, assignor to Pacific Spring Bed Company, West Berkeley, Cal. Spring construction. No. 1,011,515; Dec. 12; Sp. p. 2508; Gaz. vol. 173; p. 427.
Stackpole, Ralph D., Canton, Ohio. Folding card-table. No. 994,612; June 6; Sp. p. 1060; Gaz. vol. 167; p. 176.
Stacneck, Stevens S., Gilbertville, Mass. Picker-check. No. 1,009,595; Nov. 21; Sp. p. 4375; Gaz. vol. 172; p. 754.
Stadel, Lewis F., Freeport, Mich. Electric clock. No. 987,768; Mar. 28; Sp. p. 4250; Gaz. vol. 164; p. 775.

Alphabetical list of patentees—Continued.

Staderini, Alessandro, Rome, Italy. Box-making machine. No. 1,001,319; Aug. 22; Sp. p. 4569; Gaz. vol. 169; p. 826.
Stadermann, Curt R., and J. C. Hammer, Hartford, Conn. Return-coupon letter-sheet envelop. No. 1,007,612; Oct. 31; Sp. p. 6729; Gaz. vol. 171; p. 1211.
Stadler, Frank A., Youngstown, Ohio. Advertising device. No. 990,918; May 2; Sp. p. 195; Gaz. vol. 166; p. 35.
Staelen, Henri L. and J., Philadelphia, Pa. Hydraulic motor. No. 993,728; May 30; Sp. p. 6245; Gaz. vol. 166; p. 1128.
Staelen, Julien. (See Staelen, Henri L. and J.)
Staff, Olof, and J. W. Olson, Lothrop, Mont. Variable transmission-gearing. No. 999,530; Aug. 1; Sp. p. 663; Gaz. vol. 169; p. 114.
Stafford, Benjamin E. D., assignor to Flannery Bolt Company, Pittsburg, Pa. Stay-bolt. No. 980,696; Jan. 3; Sp. p. 1122; Gaz. vol. 162; p. 179.
Stafford, Benjamin E. D., assignor to Flannery Bolt Company, Pittsburg, Pa. Steam-boiler and stay-bolt for same. No. 984,862; Feb. 21; Sp. p. 3475; Gaz. vol. 163; p. 614.
Stafford, Benjamin E. D., assignor to The Flannery Bolt Company, Pittsburg, Pa. Flexible stay-bolt for boilers. No. 984,863; Feb. 21; Sp. p. 3476; Gaz. vol. 163; p. 614.
Stafford, Benjamin E. D., assignor to Flannery Bolt Company, Pittsburg, Pa. Flexible stay-bolt for boilers. No. 999,898; Aug. 8; Sp. p. 1419; Gaz. vol. 169; p. 270.
Stafford, Benjamin E. D., assignor to Flannery Bolt Company, Pittsburg, Pa. Flexible stay-bolt for boilers. No. 1,000,046; Aug. 8; Sp. p. 1711; Gaz. vol. 169; p. 320.
Stafford, Clinton A. (See Carpenter, Charles E., assignor.)
Stafford Company, The. (See Jackson, Simeon S., assignor.)
Stafford, Edward B., New Orleans, La. Fender. No. 1,002,187; Aug. 29; Sp. p. 6344; Gaz. vol. 169; p. 1147.
Stafford, Frederick S., Dallas, Tex. Interchangeable illuminated sign. No. 983,945; Feb. 14; Sp. p. 1504; Gaz. vol. 163; p. 265.
Stafford, Frederick S., Dallas, Tex. Combined automobile tail-light and illuminated number. No. 983,946; Feb. 14; Sp. p. 1506; Gaz. vol. 163; p. 265.
Stafford, George A., Belcherville, Tex. Advertising-exhibitor and phonographic annunciator. No. 998,721; July 25; Sp. p. 4633; Gaz. vol. 168; p. 841.
Stafford, Newton, Altamont, N. Y. Combined ironing-board and step-ladder. No. 996,533; June 27; Sp. p. 5352; Gaz. vol. 167; p. 936.
Stage, Albert L., Columbus, Ohio. Music-instruction board. No. 1,000,448; Aug. 15; Sp. p. 2639; Gaz. vol. 169; p. 490.
Stahl, Albert R., Somerset, Pa. Baling-press. No. 982,891; Jan. 31; Sp. p. 5964; Gaz. vol. 162; p. 1046.
Stahl, Arthur W. and J. H., Denver, Colo. Illuminated sign. No. 1,005,898; Oct. 17; Sp. p. 2907; Gaz. vol. 171; p. 527.
Stahl, Benjamin. (See Stahl, John W., assignor.)
Stahl, George H., Quincy, Ill. Incubator-heater. No. 981,324; Jan. 10; Sp. p. 2630; Gaz. vol. 162; p. 428.
Stahl, George H., Quincy, Ill. Incubator. No. 1,010,085; Nov. 28; Sp. p. 5386; Gaz. vol. 172; p. 965.
Stahl, Harvey M., Sunbury, Pa. Grave-digger's dirt-box. No. 990,075; Apr. 18; Sp. p. 3806; Gaz. vol. 165; p. 659.
Stahl, John H. (See Stahl, Arthur W. and J. H.)
Stahl, John W., assignor of one-half to B. Stahl, Union township, Snyder county, Pa. Tongue-support. No. 1,008,749; Nov. 14; Sp. p. 2533; Gaz. vol. 172; p. 427.
Stahl, Karl F., Pittsburg, Pa., assignor to General Chemical Company, New York, N. Y. Receptacle for carboys. No. 1,000,449; Aug. 15; Sp. p. 2641; Gaz. vol. 169; p. 490.
Stahl, William H., New Berlinville, Pa. Antislipping horse-boot. No. 984,166; Feb. 14; Sp. p. 1969; Gaz. vol. 163; p. 338.
Stahly, Alexander, Ocheyedan, Iowa. Truck for mowing-machines. No. 987,836; Mar. 28; Sp. p. 4391; Gaz. vol. 164; p. 799.
Staib-Abendschein Company, The. (See Mayor, Enoch A., assignor.)
Staier, Henry, New York, N. Y. Producing match-composition ingredients. No. 1,011,650; Dec. 12; Sp. p. 2852; Gaz. vol. 173; p. 476.
Stains, George M., Woodlawn, and P. J. Lynch, Shousetown, Pa. Mail-bag catcher and deliverer. No. 988,221; Mar. 28; Sp. p. 5224; Gaz. vol. 164; p. 928.
Stalans, Robert L. (See Johnson and Stalans.)
Stalcup, James F., Houston, Tex. Lumber-calculator. No. 990,603; Apr. 25; Sp. p. 5024; Gaz. vol. 165; p. 875.
Staley, Amos C. (See Bosworth and Staley.)
Staley, Amos C., Chicago, Ill. Multicopying-machine. No. 1,001,226; Aug. 22; Sp. p. 4361; Gaz. vol. 169; p. 794.
Staley, Franklin E., and J. M. Fletcher, Indianapolis, Ind. Car-door. No. 981,709; Jan. 17; Sp. p. 3425; Gaz. vol. 162; p. 580.
Staley, Paul A., *et al.*, receivers. (See Trump, Fuller, assignor.)
Stalfort, Edwin D., Baltimore, Md. Push-button switch. No. 992,077; May 9; Sp. p. 2618; Gaz. vol. 166; p. 466.
Stall, Charles H., assignor to United States Folding Box and Crate Company, Altoona, Pa. Folding crate or box. No. 989,074; Apr. 11; Sp. p. 1653; Gaz. vol. 165; p. 287.
Stall, Walter T., *et al.* (See Golden, Daniel J., assignor.)
Stall, Walter T., assignor to W. T. Stall and C. H. Dean, Brockton, Mass. Interior detachable pad for garments. No. 981,024; Jan. 10; Sp. p. 1954; Gaz. vol. 162; p. 322.
Stalmann, Gerhard. (See Schmitz and Stalmann.)
Stalnaker, James B., *et al.* (See Meixell, William B., assignor.)
Staly, Gustave S., *et al.* (See Emmons, Charles, assignor.)
Stambaugh, George B., and P. W. Brunner, Washington, D. C. Draft-regulator for heating-furnaces. No. 983,411; Feb. 7; Sp. p. 325; Gaz. vol. 163; p. 55.
Stamberger, Charles, Lamoille, Ill. Bell-ringing apparatus. No. 996,157; June 27; Sp. p. 4474; Gaz. vol. 167; p. 809.
Stamford Gas Stove Company. (See Reissner and Warren, assignors.)
Stamm, Ike, *et al.* (See Leftwich and Markle, assignors.)
Stamm, Louis H., Beaver Falls, Pa. Rail-joint. No. 988,041; Mar. 28; Sp. p. 4898; Gaz. vol. 164; p. 869.
Stamp, John. (See Davis, Charles J., assignor.)
Stamps, Henry, Chicago, Ill. Leveling instrument. No. 1,012,740; Dec. 26; Sp. p. 5186; Gaz. vol. 173; p. 929.
Stamps, James M., Sacramento, Cal. Combined strain-plate and guy-support. No. 986,238; Mar. 7; Sp. p. 1010; Gaz. vol. 164; p. 162.
Stamps, William P., Milvid, and W. R. Phillips, Munday, Tex. Alarm device. No. 988,395; Apr. 4; Sp. p. 231; Gaz. vol. 165; p. 37.
Stanbon, Charles P., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Insole-reinforcing machine. (Reissue.) No. 13,278; July 25; Sp. p. 5647; Gaz. vol. 168; p. 1006.
Stanbon, Charles P., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channel-cementing machine. No. 1,004,098; Sept. 26; Sp. p. 4245; Gaz. vol. 170; p. 756.
Stanbon, Charles P., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channel-cementing machine. No. 1,004,705; Oct. 3; Sp. p. 345; Gaz. vol. 171; p. 57.
Stanbrough, William M., Newburgh, N. Y. Ice-boat. No. 1,006,310; Oct. 17; Sp. p. 3844; Gaz. vol. 171; p. 673.
Stancliff Well Screen and Mfg. Co. (See Fisk, Lawnnedo, assignor.)
Standard Adding Machine Company. (See Mallmann and Browning, assignors.)
Standard Auto Valve Company. (See Carlisle, Fred B., assignor.)
Standard Bale Wire Buckle Co. (See McFarland, Frank H., assignor.)
Standard Car Truck Company. (See Barber, John C., assignor.)
Standard Car Truck Company. (See Barber and Webb, assignors.)
Standard Chain Company. (See Hoff, Carlton L., assignor.)
Standard Computing Scale Company. (See Buckingham, Fremont H., assignor.)
Standard Computing Scale Company. (See Jaenichen, Louis, assignor.)
Standard Computing Scale Company. (See Jaenichen and King, assignors.)
Standard Computing Scale Company. (See King, Bert W., assignor.)
Standard Coupler Company. (See Gallagher, Richard D., Jr., assignor.)
Standard Dental Manufacturing Company. (See Moore, Thomas D., assignor.)
Standard Development Company. (See Pfeiffer, Otto G., assignor.)
Standard Directory Company. (See Inge, Eugene, assignor.)
Standard Earth Auger Company, The. (See Chase, Frank H., assignor.)
Standard Electric Lamp Co. (See Welsh, Maurice H., assignor.)
Standard Glass Block Co. (See Arbogast, Francis J., assignor.)
Standard, James L., Hamburg, Ark. Attachment for cotton-gins. No. 1,001,564; Aug. 22; Sp. p. 5037; Gaz. vol. 169; p. 908.
Standard Machine Manufacturing Company, The. (See Wells, Byron B., assignor.)
Standard Manufacturing Co., The. (See Brucker, Francis, assignor.)
Standard Motor Truck Co. (See Christianson, Andrew, assignor.)
Standard Oil Cloth Company. (See Anderson and Buchanan, assignors.)
Standard Oil Company. (See Rheem, Chappell, and Black, assignors.)
Standard Oil Company. (See Saybolt, George M., assignor.)
Standard Oil Company of New York. (See Paine, Findley R., assignor.)
Standard Optical Company, The. (See Bader, Gustav A., assignor.)

Alphabetical list of patentees—Continued.

Standard Pressed Steel Company. (See Hallowell, Howard T., assignor.)
Standard Railway Equipment Company. (See Gaines, Frederick F., assignor.)
Standard Roller Bearing Company. (See Eveland, Samuel S., assignor.)
Standard Roller Bearing Company. (See Ringland, Albert, assignor.)
Standard Roller Bearing Company. (See Ringland and Wood, assignors.)
Standard, Samuel J., Washington, Ga. Plow. No. 981,133; Jan. 10; Sp. p. 2190; Gaz. vol. 162; p. 361.
Standard Sanitary Manufacturing Company. (See Marschuetz, Probst, and Reed, assignors.)
Standard Saw Manufacturing Company, The. (See McKam, Lawrence G., assignor.)
Standard Separator Company *et al.* (See Salisbury, Charles K., assignor.)
Standard Separator Company. (See Shaw, Charles H., assignor.)
Standard Sewing Machine Company, The. (See Mack, William A., assignor.)
Standard Stamp Affixer Company, The. (See Storck, Frederick W., assignor.)
Standard Steel Box Company. (See Armstrong, Curry, and Harrold, assignors.)
Standard Steel Car Company. (See Christianson, Andrew, assignor.)
Standard Supply and Manufacturing Company, The. (See Dorsey, Parmer, assignor.)
Standard Tool Company, The. (See Parpart, Otto, assignor.)
Standard Underground Cable Company. (See Davis, Charles W., assignor.)
Standard Underground Cable Company. (See Fisher, Henry W., assignor.)
Standard Vacuum Cleaner Co., The. (See Baxter and Barrett, assignors.)
Standard Varnish Works. (See Rosenberg, Edward, assignor.)
Standard Vending Company. (See Morris and Edmondson, assignors.)
Standard Veneer Company, The. (See Baxter, Arthur E., assignor.)
Standard Veneer Barrel Company. (See Hardie, George E., assignor.)
Standidge, Harry W., Chicago, Ill. Game apparatus. No. 998,045; July 18; Sp. p. 3130; Gaz. vol. 168; p. 569.
Standing Vending Company. (See Morris and Oliver, assignors.)
Standish, Albert S., Cleveland, Ohio. Chain-link-welding press. No. 996,947; July 4; Sp. p. 724; Gaz. vol. 168; p. 118.
Standish, Edward K., assignor to Diamond Power Specialty Company, Detroit, Mich. Blower for boilers. No. 995,811; June 20; Sp. p. 3762; Gaz. vol. 167; p. 656.
Standish, Edward K., assignor to Diamond Power Specialty Company, Detroit, Mich. Blower for boilers. No. 1,006,019; Oct. 17; Sp. p. 3174; Gaz. vol. 171; p. 570.
Standish, Raymond H., Martinez, Cal. Apparatus for feeding shells. No. 986,777; Mar. 14; Sp. p. 2160; Gaz. vol. 164; p. 377.
Stanecky, Joseph. (See Segel, Ernest, assignor.)
Stanford, Arthur L., Chicago, Ill. Car-seal. No. 989,438; Apr. 11; Sp. p. 2426; Gaz. vol. 165; p. 410.
Stanford, Arthur L., Chicago, Ill. Draft-gearing. No. 1,002,772; Sept. 5; Sp. p. 1314; Gaz. vol. 170; p. 198.
Stanford, Arthur L., Chicago, Ill., assignor to The Rail Joint Company. Rail-joint. No. 991,382; May 2; Sp. p. 1188; Gaz. vol. 166; p. 198.
Stanford, Charles D., Summit, N. J., and F. L. Craddock, New York, assignors to Pfaudler Company, Rochester, N. Y. Manhole-door. No. 1,006,413; Oct. 17; Sp. p. 4065; Gaz. vol. 171; p. 708.
Stange, John, Claresholm, Alberta, Canada. Twine-holder. No. 988,222; Mar. 28; Sp. p. 5236; Gaz. vol. 164; p. 928.
Stange, Theodore E., Chicago, Ill. Valve. No. 1,002,938; Sept. 12; Sp. p. 1701; Gaz. vol. 170; p. 294.
Stanich, Steve O., Anaconda, Mont. Non-refillable bottle. No. 1,001,474; Aug. 22; Sp. p. 4864; Gaz. vol. 169; p. 878.
Stanig, Riccardo, Seattle, Wash. Safety-link for watch-chains. No. 997,020; July 4; Sp. p. 916; Gaz. vol. 168; p. 145.
Staniszewski, Joseph, Wilmington, assignor of one-half to H. Emmons, Brandywine, Del. Leather-working machine. No. 1,002,879; Sept. 12; Sp. p. 1572; Gaz. vol. 170; p. 273.
Stankovich, Jacob, New York, N. Y. Apparatus for the manufacture of barrels. No. 984,167; Feb. 14; Sp. p. 1971; Gaz. vol. 163; p. 339.
Stanley, Arthur M. (See Fish and Stanley.)
Stanley, Arthur M., Lynn, Mass., assignor to General Electric Company. Valve-gear for fluid-pressure engines. No. 995,384; June 13; Sp. p. 2794; Gaz. vol. 167; p. 476.
Stanley, Buell, Herndon, Va. Elevator-ladder. No. 1,010,526; Dec. 5; Sp. p. 279; Gaz. vol. 173; p. 44.
Stanley, Charles B. (See Hammitt and Stanley.)
Stanley, Frank M., Wichita, Kans. Street-indicator for cars. No. 1,005,788; Oct. 10; Sp. p. 2655; Gaz. vol. 171; p. 458.
Stanley, George L., Dongan Hills, assignor of one-third to W. J. Smith, New York, N. Y. Can-truck. No. 990,076; Apr. 18; Sp. p. 3808; Gaz. vol. 165; p. 660.
Stanley, George W., assignor of one-eighth to Z. Taylor, one-eighth to D. Taylor, one-eighth to C. M. Taylor, one-eighth to J. Taylor, and one-fourth to E. D. Morgan, Logansport, Ind. Differential hub. No. 993,563; May 30; Sp. p. 5869; Gaz. vol. 166; p. 1070.
Stanley, George W., assignor of one-eighth to Z., D., C. M., and J. Taylor and one-fourth to E. D. Morgan, Logansport, Ind. Differential hub. No. 997,585; July 11; Sp. p. 2047; Gaz. vol. 168; p. 365.
Stanley, Henry F., Sr., New Orleans, La. Car-door. No. 994,613; June 6; Sp. p. 1062; Gaz. vol. 167; p. 177.
Stanley, John S. (See McNorton and Stanley.)
Stanley, Joseph, assignor of one-half to B. A. Carpenter and F. S. Preston, Geary, Okla. Ore-separator. No. 995,578; June 20; Sp. p. 3240; Gaz. vol. 167; p. 573.
Stanley, Nathan M. (See Grimes, James B., assignor.)
Stanley, Ollie, assignor of one-half to W. E. Thomas, Wakenda, Mo. Coal-oil burner. No. 1,000,956; Aug. 15; Sp. p. 3734; Gaz. vol. 169; p. 669.
Stanley Rule & Level Company, The. (See Bodmer, Christian, assignor.)
Stanley Rule & Level Company, The. (See Bodmer and Peck, assignors.)
Stanley Rule & Level Company, The. (See Bodmer and Schade, assignors.)
Stanley Rule and Level Company. (See Mitchell, Charles E., assignor.)
Stanley Rule and Level Company. (See Schade, Albert F., assignor.)
Stanley Rule & Level Company, The. (See Schade, Edmund A., assignor.)
Stanley Rule & Level Company, The. (See Turnbull, Andrew, assignor.)
Stanley, Theodore D., Detroit, Mich. Steering-wheel lock. No. 985,468; Feb. 28; Sp. p. 4812; Gaz. vol. 163; p. 855.
Stanley, Thomas H., assignor of one-fourth to C. W. Varnum and one-fourth to F. N. Dailey, Denver, Colo. Concrete or cement fence. No. 984,711; Feb. 21; Sp. p. 3179; Gaz. vol. 163; p. 563.
Stanley, Thomas R., Oil City, Pa. Valve. No. 995,193; June 13; Sp. p. 2379; Gaz. vol. 167; p. 412.
Stanley, William E. (See Jamison, Robert G., assignor.)
Stanley, William H., Alameda, Cal. Combination-tool. No. 999,899; Aug. 8; Sp. p. 1420; Gaz. vol. 169; p. 270.
Stanley Works, The. (See Hart and Holtzhouser, assignors.)
Stanley Works, The. (See Moran, Frank J., assignor.)
Stanley Works, The. (See Voight, August, assignor.)
Stannard, John E., *et al.* (See Millea, Francis J., assignor.)
Stannard, John E., Springfield, Mass., assignor to himself, F. J. Millea, and G. W. D. Upton. Spring-wheel. No. 1,003,158; Sept. 12; Sp. p. 2144; Gaz. vol. 170; p. 368.
Stannard, Percival D., Norwalk, Conn. Footboard-quilt. No. 993,119; May 23; Sp. p. 4926; Gaz. vol. 166; p. 891.
Stansell, Guy E., Seattle, Wash. Loose-leaf binder. No. 982,750; Jan. 24; Sp. p. 5641; Gaz. vol. 162; p. 968.
Stansfield, Alfred, Montreal, Quebec, assignor of one-half to J. W. Evans, Belleville, Canada. Preheater and reducer for electric smelting-furnaces. No. 984,308; Feb. 14; Sp. p. 2300; Gaz. vol. 163; p. 389.
Stanton, Charles E., Hampton, Va. Window-screen. No. 992,284; May 16; Sp. p. 3118; Gaz. vol. 166; p. 568.
Stanton, Ed B., Grand Island, Nebr. Water-gage. No. 992,612; May 16; Sp. p. 3838; Gaz. vol. 166; p. 684.
Stanton, George A., Chico, Cal. Talc-ore roaster. No. 988,396; Apr. 4; Sp. p. 233; Gaz. vol. 165; p. 38.
Stanton, William H., Chicago, Ill., assignor to Morgan Construction Company, Worcester, Mass. Steam-motor. No. 996,158; June 27; Sp. p. 4477; Gaz. vol. 167; p. 809.
Stanyon, Henry, Toronto, Ontario, Canada. Davenport-bed. No. 990,401; Apr. 25; Sp. p. 4564; Gaz. vol. 165; p. 805.
Stapel, Adolf G., Montgomery, Ala. Accelerator for hot-water systems. No. 980,360; Jan. 3; Sp. p. 368; Gaz. vol. 162; p. 65.
Stapel, William C., and A. Johannes, Swanville, Minn. Penholder. No. 1,007,250; Oct. 31; Sp. p. 5952; Gaz. vol. 171; p. 1086.
Stapely, William C., Chicago, Ill. Mattress. No. 1,002,006; Aug. 29; Sp. p. 6016; Gaz. vol. 169; p. 1088.
Stapler, Alexander, Charlottenburg, Germany. Solid perfume mixture containing artificial musk. No. 1,000,852; Aug. 15; Sp. p. 3524; Gaz. vol. 169; p. 634.
Staples, Albert F., assignor to Superior Register Company, Canisteo, N. Y. Account-register. No. 1,007,613; Oct. 31; Sp. p. 6730; Gaz. vol. 171; p. 1211.
Staples, Albert F., assignor to Superior Register Company, Canisteo, N. Y. Account-register. No. 1,008,386; Nov. 14; Sp. p. 1678; Gaz. vol. 172; p. 299.
Staples, Augustine E., Chester, Vt. Cow-tail holder. No. 992,995; May 23; Sp. p. 4647; Gaz. vol. 166; p. 848.
Staples, Charles D., San Francisco, Cal. Fishing-reel. No. 990,674; Apr. 25; Sp. p. 5204; Gaz. vol. 165; p. 898.
Staples, George B., Philadelphia, Pa. Paper-file. No. 999,900; Aug. 8; Sp. p. 1421; Gaz. vol. 169; p. 270.

Alphabetical list of patentees—Continued.

Staples, James E., Beloit, Wis. Automatic check-valve. No. 1,003,819; Sept. 19; Sp. p. 3545; Gaz. vol. 170; p. 631.
Staples, Ralph E., Cambridge, Mass. Automatic gas cut-off. No. 996,948; July 4; Sp. p. 727; Gaz. vol. 168; p. 119.
Staples, Willard G., Newburyport, Mass. Metal-strand machine. No. 989,075; Apr. 11; Sp. p. 1656; Gaz. vol. 165; p. 288.
Stapleton, William J. (See Allwardt, Henry A., assignor.)
Stapp, Frederick, Denver, Colo. Orchard-heating device. No. 981,025; Jan. 10; Sp. p. 1955; Gaz. vol. 162; p. 322.
Stappen, Albert, München-Gladbach, Germany. Compound or multiple-expansion engine. No. 1,011,516; Dec. 12; Sp. p. 2509; Gaz. vol. 173; p. 427.
Star Ball Retainer Company, The. (See Chambers, David F., assignor.)
Star Ball Retainer Company, The. (See Straub, Jackson L., assignor.)
Star Brass Manufacturing Company. (See Fernald, Charles F., assignor.)
Star Brass Manufacturing Company. (See Webster, George A., assignor.)
Star Carburetor Co. (See McCarthy, Thomas J., assignor.)
Star Electric Company. (See Doughty and Beach, assignors.)
Star Manufacturing Company. (See Logsdon, Alfred, assignor.)
Star Novelty Company. (See Williams, William W., assignor.)
Star, Richard, U. S. Navy. Apparatus for indicating the speed of ships. No. 988,832; Apr. 4; Sp. p. 1151; Gaz. vol. 165; p. 184.
Star, Richard, New York, N. Y. Motor. No. 997,159; July 4; Sp. p. 1187; Gaz. vol. 168; p. 192.
Star Seal Company. (See Rennie, John A., assignor.)
Star Seal Company. (See Stone, William F., assignor.)
Starck, August W., Sköfde, Sweden. Automatic reel for wire, &c. No. 988,905; Apr. 4; Sp. p. 1282; Gaz. vol. 165; p. 206.
Starck, August W., Sköfde, Sweden. Swinging hot-saw for rolling-mills. No. 1,010,527; Dec. 5; Sp. p. 281; Gaz. vol. 173; p. 45.
Stare, Frank T., assignor to American Dehydrating Co., Waukesha, Wis. Dehydrating apparatus. No. 986,602; Mar. 14; Sp. p. 1797; Gaz. vol. 164; p. 319.
Starin, Frederick D., Whitewater, Wis. Oar-lock. No. 1,001,475; Aug. 22; Sp. p. 4865; Gaz. vol. 169; p. 878.
Stark, Andrew, Chicago, Ill. Concrete railway-track support. No. 991,906; May 9; Sp. p. 2299; Gaz. vol. 166; p. 409.
Stark, Charles W., Mountain Lake, Minn. Fastening device. No. 999,413; Aug. 1; Sp. p. 438; Gaz. vol. 169; p. 77.
Stark, David, and A. R. Carlyle, San Francisco, Cal. Steam-generator. No. 1,004,706; Oct. 3; Sp. p. 351; Gaz. vol. 171; p. 57.
Stark, Emil G., Altchemnitz, near Chemnitz, Germany. Treating brittle vegetable fibers of kapok and other plants. No. 1,006,142; Oct. 17; Sp. p. 3460; Gaz. vol. 171; p. 614.
Stark, George A., and G. Gates, San Jose, Cal. Continuous-rail-joint clamp. No. 991,462; May 2; Sp. p. 1356; Gaz. vol. 166; p. 225.
Stark, Lee P., *et al.* (See Dean, John F., assignor.)
Stark, Michael J., Jr., assignor to W. A. Marguerat, Chicago, Ill. Book-holder. No. 1,001,900; Aug. 29; Sp. p. 5787; Gaz. vol. 169; p. 1054.
Stark, William H., Higbee, Mo. Mail-box attachment. No. 994,614; June 6; Sp. p. 1064; Gaz. vol. 167; p. 177.
Starke, Emil O., Oak Park, Ill., assignor to Rudolph Wurlitzer Company, Cincinnati, Ohio. Harp. No. 1,010,816; Dec. 5; Sp. p. 920; Gaz. vol. 173; p. 144.
Starke, Milton H., Los Angeles, Cal. Drafting instrument. No. 1,001,565; Aug. 22; Sp. p. 5039; Gaz. vol. 169; p. 908.
Starkey, Louis H., assignor of one-half to G. C. Sackett, Rockford, Ill. Clamp for clarinet-mouthpiece reeds. No. 995,104; June 13; Sp. p. 2209; Gaz. vol. 167; p. 384.
Starling, Otho, Dothan, Ala. Car-coupling. No. 989,439; Apr. 11; Sp. p. 2428; Gaz. vol 165; p. 410.
Starn, George E., Camden, assignor to H. M. Dover, Palmyra, N. J. Water-heater. No. 1,009,198; Nov. 21; Sp. p. 3479; Gaz. vol. 172; p. 614.
Starn, Rosalie, Chicago, Ill. Dish-drainer. No. 993,898; May 30; Sp. p. 6575; Gaz. vol. 166; p. 1185.
Starnes, James E. (See Rees, Clayton D., assignor.)
Staron, Stephan G., and S. A. Dolny, Cleveland, Ohio. Stove. No. 997,715; July 11; Sp. p. 2333; Gaz. vol. 168; p. 412.
Starr, Alden B., assignor to Single Service Package Corporation of America, New York, N. Y. Automatic crimping-machine. No. 1,013,081; Dec. 26; Sp. p. 5972; Gaz. vol. 173; p. 1045.
Starr, Frederick J., Asbury Park, N. J., assignor to Consolidated Dental Manufacturing Company, New York, N. Y. Crown-pin. No. 984,782; Feb. 21; Sp. p. 3334; Gaz. vol. 163; p. 588.
Starr, John T., Nowata, Okla. Road-grader. No. 981,710; Jan. 17; Sp. p. 3427; Gaz. vol. 162; p. 580.
Starr, John T., and B. M. McFarland, Nowata, Okla. Fishing-tool. No. 1,006,020; Oct. 17; Sp. p. 3178; Gaz. vol. 171; p. 571.
Starr Piano Company. (See Draper, Francis W., assignor.)
Starr Piano Company. (See Kanouse, Clark D., assignor.)
Starr, Thomas C., Stockton, Cal. Electric sign. No. 1,007,500; Oct. 31; Sp. p. 6483; Gaz. vol. 171; p. 1173.
Starr, Wilmer H. (See Hill, Chester C., assignor.)
Starrett, Laroy S., assignor to L. S. Starrett Company, Athol, Mass. Expansion-pliers. No. 980,361; Jan. 3; Sp. p. 370; Gaz. vol. 162; p. 65.
Starrett, Laroy S., assignor to L. S. Starrett Company, Athol, Mass. Combined square and bevel-protractor. No. 980,362; Jan. 3; Sp. p. 372; Gaz. vol. 162; p. 66.
Starrett, Laroy S., assignor to L. S. Starrett Company, Athol, Mass. Spindle-lock. No. 1,006,508; Oct. 24; Sp. p. 4305; Gaz. vol. 171; p. 772.
Starrett, Laroy S., assignor to L. S. Starrett Company, Athol, Mass. Vice-jaw attachment. No. 1,006,509; Oct. 24; Sp. p. 4306; Gaz. vol. 171; p. 772.
Starrett, Laroy S., assignor to L. S. Starrett Company, Athol, Mass. Combination-tool. No. 1,011,262; Dec. 12; Sp. p. 1947; Gaz. vol. 173; p. 335.
Starrett, Laroy S., assignor to L. S. Starrett Company, Athol, Mass. Vise. No. 1,012,226; Dec. 19; Sp. p. 4126; Gaz. vol. 173; p. 708.
Stata, Alvin T., Minneapolis, Minn. Collapsible straining-funnel. No. 1,007,401; Oct. 31; Sp. p. 6262; Gaz. vol. 171; p. 1139.
State of Minnesota. (See Downing, John H., assignor.)
State Sales Company. (See Weil, Sydney S., assignor.)
Staub, John W. (See Howard, Benjamin F., assignor.)
Stauber, Georg, Berlin, Germany. Elastic shaft-coupling. No. 988,742; Apr. 4; Sp. p. 974; Gaz. vol. 165; p. 154.
Staude, Edwin G., assignor to E. G. Staude Manufacturing Co., Minneapolis, Minn. Machine for making box-blanks. (Reissue.) No. 13,273; July 18; Sp. p. 4327; Gaz. vol. 168; p. 765.
Staudenmaier, Jacob, Oldham, S. D. Meat-spreader. No. 991,383; May 2; Sp. p. 1190; Gaz. vol. 166; p. 198.
Staudt, Amos H., Rainton, Pa. Railway-rail coupling. No. 1,009,936; Nov. 28; Sp. p. 5059; Gaz. vol. 172; p. 913.
Stauffer, Daniel S., Richland Center, Pa. Car-brake. No. 994,041, May 30; Sp. p. 6866; Gaz. vol. 166; p. 1233.
Stauffer, Floyd F., assignor of one-half to W. J. Glynn, Dallas, Tex. Automatic piano. No. 1,000,561; Aug. 15; Sp. p. 2890; Gaz. vol. 169; p. 530.
Stauffer, Floyd F., assignor of one-half to W. J. Glynn, Dallas, Tex. Mechanism for gradually changing rotative velocity. No. 1,000,633; Aug. 15; Sp. p. 3073; Gaz. vol. 169; p. 557.
Staunton, Gray, Evanston, Ill. Apparatus for drying grain. No. 988,671; Apr. 4; Sp. p. 816; Gaz. vol. 165; p. 132.
Staunton, Gray, Evanston, Ill. Vacuum-package apparatus. No. 1,005,349; Oct. 10; Sp. p. 1704; Gaz. vol. 171; p. 304.
Staunton, Gray, assignor to W. S. Potwin, Chicago, Ill. Apparatus for drying grain. No. 987,837; Mar. 28; Sp. p. 4392; Gaz. vol. 164; p. 799.
Staunton, Gray, Evanston, assignor to W. S. Potwin, Chicago, Ill. Compound for printers' inking-rolls and the like. No. 1,000,634; Aug. 15; Sp. p. 3075; Gaz. vol. 169; p. 558.
Stavens, George, Coeur d'Alene, Idaho. Note-book. No. 1,011,651; Dec. 12; Sp. p. 2853; Gaz. vol. 173; p. 476.
Stawartz, John J., assignor of one-half to J. Uhrin, Homestead, Pa. Railway-tie and rail-fastening. No. 1,009,199; Nov. 21; Sp. p. 3482; Gaz. vol. 172; p. 614.
Stayert, Peter, Pittsburg, Pa. Instep-support. No. 990,675; Apr. 25; Sp. p. 5205; Gaz. vol. 165; p. 898.
Staynes, William H. (See Payne, Ernest E. M., assignor.)
Stead, Frank, Providence, R. I. Frame. No. 983,846; Feb. 7; Sp. p. 1265; Gaz. vol. 163; p. 203.
Steam Appliance Manufacturing Company *et al.* (See Ackley, William J., assignor.)
Steam Power Devices Company, The. (See Brown, Charles A., assignor.)
Steam Power Devices Company, The. (See Winslow, William H., assignor.)
Stearns & Co., E. C. (See Cotter, John S., assignor.)
Stearns Company, The. (See Wilkin, William R., assignor.)
Stearns, Edward C., Syracuse, N. Y. Saw-clamp. No. 983,176; Jan. 31; Sp. p. 6551; Gaz. vol. 162; p. 1139.
Stearns & Foster Company, The. (See Paddack, Truman G., assignor.)
Stearns, Joseph S., *et al.* (See Drury, William H., assignor.)
Stearns, Ray, Schenectady, N. Y., assignor to General Electric Company. High and low potential selective switch system. No. 991,556; May 9; Sp. p. 1569; Gaz. vol. 166; p. 290.
Stears, Emily A., Brooklyn, N. Y. All-flexible-rubber sink-seal. No. 1,007,013; Oct. 24; Sp. p. 5405; Gaz. vol. 171; p. 947.
Stebbins, Charles B. (See Hovey and Stebbins.)
Stebbins, Charles B. (See Mahana, Hovey, and Stebbins.)

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Stebbins, Henry A., Malden, and A. A. Adams, Brookline, Mass., assignors, by mesne assignments, to Atlantic National Bank, Providence, R. I. Target-practice apparatus. No. 1,007,154; Oct. 31; Sp. p. 5735; Gaz. vol. 171; p. 1051.
Stebbins, William G., Montague, assignor to Millers Falls Co., Millers Falls, Mass. Thrust-bearing. No. 989,203; Apr. 11; Sp. p. 1908; Gaz. vol. 165; p. 331.
Stebbins, William H., and L. Geynet, Norwich, Conn. Flying-machine. No. 1,000,127; Aug. 8; Sp. p. 1937; Gaz. vol. 169; p. 348.
Stebbins, William H., Jr., Buffalo, N. Y. Trolley-restorer. No. 984,712; Feb. 21; Sp. p. 3181; Gaz. vol. 163; p. 563.
Steber, Bernard T., Utica, N. Y. Slide-rule. No. 1,000,562; Aug. 15; Sp. p. 2894; Gaz. vol. 169; p. 531.
Stebler, Fred, Riverside, Cal. Hand-truck. No. 990,402; Apr. 25; Sp. p. 4566; Gaz. vol. 165; p. 805.
Steck, Francis W. (See Deible, Lewis J., assignor.)
Steckel, Archibald W. F., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Lubricator for chains and the like. No. 997,586; July 11; Sp. p. 2049; Gaz. vol. 168; p. 366.
Steckenrider, Lewis W. (See Eldridge and Steckenrider.)
Steckle, Edward J., Dixon, Ill., assignor of one-third to C. J. Reilly, Syracuse, Ind., and one-third to W. E. Wuerth, Dixon, Ill. Crushing-machine. No. 1,006,143; Oct. 17; Sp. p. 3461; Gaz. vol. 171; p. 614.
Stedinger, Ferd, Rockford, Ill. Platen printing-press. No. 982,892; Jan. 31; Sp. p. 5965; Gaz. vol. 162; p. 1046.
Stedman, Alfred, Middle Grove, N. Y. Glove No. 1,010,199; Nov. 28; Sp. p. 5603; Gaz. vol. 172; p. 1003.
Stedman, Charles H., assignor of one-half to J. M. Riley, Zanesville, Ohio. Rail-brace. No. 1,010,969; Dec. 5; Sp. p. 1257; Gaz. vol. 173; p. 199.
Stedman, William A., Millers, Nev. Electric reciprocating engine. No. 991,384; May 2; Sp. p. 1191; Gaz. vol. 166; p. 198.
Stedman, William H., assignor to The Merrow Machine Company, Hartford, Conn. Presser-foot-lifting mechanism for sewing-machines. No. 1,002,008; Aug. 29; Sp. p. 6017; Gaz. vol. 169; p. 1089.
Stedman, William H., assignor to The Merrow Machine Company, Hartford, Conn. Presser-foot for sewing-machines. No. 1,002,330; Sept. 5; Sp. p. 337; Gaz. vol. 170; p. 48.
Steedman, George F., St. Louis, Mo. Edge-piling lumber-stacker. No. 987,185; Mar. 21; Sp. p. 3009; Gaz. vol. 164; p. 546.
Steedman, George F., St. Louis, assignor to Curtis & Company Manufacturing Company, Wellston, Mo. Packing device. No. 1,000,563; Aug. 15; Sp. p. 2899; Gaz. vol. 169; p. 531.
Steefel, Joseph D., assignor to Steefel, Strauss & Connor, Rochester, N. Y. Garment. No. 1,009,109; Nov. 21; Sp. p. 3303; Gaz. vol. 172; p. 584.
Steefel, Strauss & Connor. (See Steefel, Joseph D., assignor.)
Steel Fireproof Construction Company, The. (See Rude, James M., assignor.)
Steel Fireproofing Company. (See Hill, Hermann, assignor.)
Steel Heddle Manufacturing Company. (See Fehr and Kaufmann, assignors.)
Steel Heddle Manufacturing Company. (See Kaufmann, Jacob, assignor.)
Steel, James, Little Falls, N. J. Type-disk-supporting device. No. 1,000,635; Aug. 15; Sp. p. 3076; Gaz. vol. 169; p. 558.
Steel, James, Little Falls, N. J. Type-assembling device. No. 1,004,601; Oct. 3; Sp. p. 114; Gaz. vol. 171; p. 20.
Steel, Leonard R., Milwaukee, Wis. Milk-can. No. 983,652; Feb. 7; Sp. p. 855; Gaz. vol. 163; p. 136.
Steel, Leonard R., Cleveland, Ohio. Oyster-can. No. 989,658; Apr. 18; Sp. p. 2933; Gaz. vol. 165; p. 517.
Steel, Leonard R., Cleveland, Ohio. Ice-cream receptacle. No. 990,077; Apr. 18; Sp. p. 3809; Gaz. vol. 165; p. 660.
Steel, Leonard R., Cleveland, Ohio. Milk-pail. No. 995,415; June 13; Sp. p. 2868; Gaz. vol. 167; p. 487.
Steel, Leonard R., Cleveland, Ohio. Glass-lined insulated milk-can. No. 1,000,636; Aug. 15; Sp. p. 3079; Gaz. vol. 169; p. 559.
Steel, Leonard R., Cleveland, Ohio. Heat-insulating tube or receptacle. No. 1,002,009; Aug. 29; Sp. p. 6021; Gaz. vol. 169; p. 1089.
Steel, Leonard R., Cleveland, Ohio. Heat-insulated can. No. 1,002,466; Sept. 5; Sp. p. 651; Gaz. vol. 170; p. 94.
Steel, Leonard R., Cleveland, Ohio. Water-cooler. No. 1,004,490; Sept. 26; Sp. p. 5054; Gaz. vol. 170; p. 890.
Steel, Leonard R., Cleveland, Ohio. Combined dispensing-bottle and cooler. No. 1,004,491; Sept. 26; Sp. p. 5056; Gaz. vol. 170; p. 890.
Steel, Leonard R., Cleveland, Ohio. Insulated bottle. No. 1,004,926; Oct. 3; Sp. p. 824; Gaz. vol. 171; p. 133.
Steel, Leonard R., Cleveland, Ohio. Water-cooler. No. 1,004,927; Oct. 3; Sp. p. 825; Gaz. vol. 171; p. 134.
Steel, Leonard R., Cleveland, Ohio. Milk-can. No. 1,007,986; Nov. 7; Sp. p. 746; Gaz. vol. 172; p. 117.
Steel, Leonard R., Cleveland, Ohio. Milk-can. No. 1,007,987; Nov. 7; Sp. p. 748; Gaz. vol. 172; p. 118.
Steel, Leonard R., Cleveland, Ohio. Milk-can. No. 1,008,750; Nov. 14; Sp. p. 2534; Gaz. vol. 172; p. 427.
Steel Mantle Light Company, The. (See Curtis, Frederic A., assignor.)
Steel Tempering Process Company. (See Lee and Booth, assignors.)
Steele, Charles L., *et al.* (See Limbert, Samuel H., assignor.)
Steele, David R., Curtis Bay, assignor of one-half to H. D. Harvey, Baltimore, Md. Furnace-cover attachment. No. 1,004,925; Oct. 3; Sp. p. 822; Gaz. vol. 171; p. 133.
Steele, Edwin C., Oxford, Ind. Interconvertible chair or table. No. 1,010,086; Nov. 28; Sp. p. 5388; Gaz. vol. 172; p. 966.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 981,808; Jan. 17; Sp. p. 3634; Gaz. vol. 162; p. 616.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 981,809; Jan. 17; Sp. p. 3641; Gaz. vol. 162; p. 616.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 983,462; Feb. 7; Sp. p. 438; Gaz. vol. 163; p. 70.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 986,515; Mar. 14; Sp. p. 1614; Gaz. vol. 164; p. 287.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 989,308; Apr. 11; Sp. p. 2145; Gaz. vol. 165; p. 367.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 989,309; Apr. 11; Sp. p. 2159; Gaz. vol. 165; p. 368.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 990,307; Apr. 25; Sp. p. 4342; Gaz. vol. 165; p. 771.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 990,919; May 2; Sp. p. 197; Gaz. vol. 166; p. 35.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 996,809; July 4; Sp. p. 423; Gaz. vol. 168; p. 71.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 998,861; July 25; Sp. p. 4952; Gaz. vol. 168; p. 890.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,002,939; Sept. 12; Sp. p. 1702; Gaz. vol. 170; p. 295.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,008,387; Nov. 14; Sp. p. 1682; Gaz. vol. 172; p. 299.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,009,351; Nov. 21; Sp. p. 3853; Gaz. vol. 172; p. 671.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,010,087; Nov. 28; Sp. p. 5389; Gaz. vol. 172; p. 966.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,010,528; Dec. 5; Sp. p. 282; Gaz. vol. 173; p. 45.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,010,970; Dec. 5; Sp. p. 1258; Gaz. vol. 173; p. 199.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,012,928; Dec. 26; Sp. p. 5639; Gaz. vol. 173; p. 992.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,012,929; Dec. 26; Sp. p. 5643; Gaz. vol. 173; p. 993.
Steele, Herbert H., Marcellus, assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 1,012,930; Dec. 26; Sp. p. 5651; Gaz. vol. 173; p. 993.
Steele, Herbert H., Syracuse, N. Y., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 997,517; July 11; Sp. p. 1897; Gaz. vol. 168; p. 341.
Steele, Lawrence C., Beaver, Pa. Machine for finishing tin-plate. No. 995,639; June 20; Sp. p. 3379; Gaz. vol. 167; p. 595.
Steele, Lawrence C., Beaver, Pa. Apparatus for pickling metal. No. 996,290; June 27; Sp. p. 4812; Gaz. vol. 167; p. 853.

Alphabetical list of patentees—Continued.

Steele, Lawrence C., Beaver, Pa. Conveyer-table. No. 997,868; July 11; Sp. p. 2713; Gaz. vol. 168; p. 465.
Steele, Lawrence C., Beaver, Pa. Apparatus for catching, conveying, and cooling coated metal sheets. No. 997,869; July 11; Sp. p. 2714; Gaz. vol. 168; p. 466.
Steele, Robert A. M. (See Steele, Samuel E., assignor.)
Steele, Samuel E., assignor to R. A. M. Steele, Pittsburg, Pa. Electrical floor or wall connector. No. 982,544; Jan. 24; Sp. p. 5225; Gaz. vol. 162; p. 901.
Steele, Samuel G. (See Queary, William A., assignor.)
Steele, Thomas, assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Artificial-tooth cusp. No. 997,472; July 11; Sp. p. 1808; Gaz. vol. 168; p. 327.
Steele, Wentworth, St. Louis, Mo. Auxiliary starting device for internal-combustion engines. No. 992,920; May 23; Sp. p. 4483; Gaz. vol. 166; p. 822.
Steen, Halfdan A., Milwaukee, Wis., assignor to Allis-Chalmers Company. Contact-finger. No. 991,661; May 9; Sp. p. 1806; Gaz. vol. 166; p. 328.
Steen, Halfdan A., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of motor control. No. 998,419; July 18; Sp. p. 3974; Gaz. vol. 168; p. 704.
Steen, Harry A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Controller. No. 1,005,350; Oct. 10; Sp. p. 1706; Gaz. vol. 171; p. 305.
Steen, Karl, St. Louis, Mo. Hair-drying brush. No. 980,363; Jan. 3; Sp. p. 374; Gaz. vol. 162; p. 66.
Steen, Mary L., Elmo, Tex. Cooling apparatus. No. 988,397; Apr. 4; Sp. p. 234; Gaz. vol. 165; p. 38.
Steenson, Jesse G., Minneapolis, Minn. Washing-machine. No. 999,130; July 25; Sp. p. 5527; Gaz. vol. 168; p. 982.
Steere, Merrill O., Pawtucket, R. I. Shuttle-motion for looms. No. 991,385; May 2; Sp. p. 1195; Gaz. vol. 166; p. 199.
Steere, Merrill O., Pawtucket, R. I. Narrow-ware loom. No. 998,808; July 25; Sp. p. 4824; Gaz. vol. 168; p. 872.
Stefan, Coloman, Vienna, Austria-Hungary. Device for reducing amount of energy required for propulsion of wheeled vehicles. No. 1,000,564; Aug. 15; Sp. p. 2901; Gaz. vol. 169; p. 532.
Stefán, Károly, West Philadelphia, Pa. Electric rat-trap. No. 1,006,887; Oct. 24; Sp. p. 5157; Gaz. vol. 171; p. 906.
Steffen, Carl, Vienna, Austria-Hungary. Apparatus for continuously lixiviating plants. No. 1,006,311; Oct. 17; Sp. p. 3849; Gaz. vol. 171; p. 673.
Steffen, Carl, Vienna, Austria-Hungary. Treating potatoes. No. 1,006,312; Oct. 17; Sp. p. 3852; Gaz. vol. 171; p. 674.
Steffen, Henry E., assignor of one-half to H. J. Steffen, Chicago, Ill. Folding box. No. 1,001,781; Aug. 29; Sp. p. 5513; Gaz. vol. 169; p. 1013.
Steffen, Henry J. (See Steffen, Henry E., assignor.)
Steffen, Tobias L., Bluffton, Ind. Wagon-body lining. No. 995,923; June 20; Sp. p. 3997; Gaz. vol. 167; p. 694.
Steffens, Louis A., Vina, Cal. Animal-trap. No. 1,005,667; Oct. 10; Sp. p. 2420; Gaz. vol. 171; p. 416.
Steffy, Hernando C., Chicago, Ill. Cooling-can. No. 996,033; June 20; Sp. p. 4214; Gaz. vol. 167; p. 732.
Stefhan, Anton, Point Mills, Mich. Door-check. No. 992,996; May 23; Sp. p. 4648; Gaz. vol. 166; p. 848.
Stegeman, John D., Alameda, Cal. Lumber-jack. No. 1,012,286; Dec. 19; Sp. p. 4247; Gaz. vol. 173; p. 729.
Stegemann, Charles, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Welt-guide for sewing-machines. No. 993,564; May 30; Sp. p. 5871; Gaz. vol. 166; p. 1070.
Stegemann, Paul, Racine, Wis. Combined comb and cigar-cutter. No. 995,194; June 13; Sp. p. 2380; Gaz. vol. 167; p. 412.
Steger & Sons Piano Manufacturing Company. (See Betz, William G., assignor.)
Steger, Thomas M. (See Smartt, Brinay, assignor.)
Steger, William, Linden Heights, Ohio. Screen. No. 1,010,700; Dec. 5; Sp. p. 659; Gaz. vol. 173; p. 106.
Steglat, Otto C., Detroit, Mich. Internal-combustion engine. No. 1,001,782; Aug. 29; Sp. p. 5514; Gaz. vol. 169; p. 1013.
Stehlin, Joseph, New York, N. Y. Hydraulic press. No. 1,004,214; Sept. 26; Sp. p. 4494; Gaz. vol. 170; p. 796.
Stehm, Frank R., Des Moines, Iowa. Car. No. 982,103; Jan. 17; Sp. p. 3400; Gaz. vol. 162; p. 717.
Stehman and Swan Manufacturing Company. (See Swan, Milton G., assignor.)
Steick, John H., Sells Station, Pa. Hat-trimming stand. No. 986,412; Mar. 7; Sp. p. 1379; Gaz. vol. 164; p. 223.
Steiger, Andrew W., Bridgeport, Conn., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 990,920; May 2; Sp. p. 200; Gaz. vol. 166; p. 35.
Steiger, Andrew W., Bridgeport, Conn., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 994,209; June 6; Sp. p. 224; Gaz. vol. 167; p. 39.
Steiger, Andrew W., Bridgeport, Conn., assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,008,388; Nov. 14; Sp. p. 1686; Gaz. vol. 172; p. 300.
Stein, Albert E., Los Angeles, Cal. Box for eggs and the like. No. 1,003,013; Sept. 12; Sp. p. 1842; Gaz. vol. 170; p. 319.
Stein, Frederick W., assignor of one-half to T. S. Booth, Chicago, Ill. Carbureter. No. 988,398; Apr. 4; Sp. p. 235; Gaz. vol. 165; p. 38.
Stein, Georg V., assignor of one-fourth to A. B. Knapp, one-fourth to J. E. Crane, and one-fourth to J. P. Molen, Washington, Ind. Non-refillable bottle. No. 988,953; Apr. 4; Sp. p. 1381; Gaz. vol. 165; p. 222.
Stein, George W., Chicago, Ill. Window-fastener. No 998,420; July 18; Sp. p. 3977; Gaz. vol. 168; p. 704.
Stein, George W., Chicago, Ill. Window-ventilator and fly-escape. No. 998,421; July 18; Sp. p. 3978; Gaz. vol. 168; p. 705.
Stein, Leo, New York, assignor of one-half to J. C. Dehls, Brooklyn, N. Y. Compound for use in brewing fermented beverages. No. 981,325; Jan. 10; Sp. p. 2633; Gaz. vol. 162; p. 429.
Stein, Paul F., New York, N. Y. Apparatus for producing artificial ice. No. 984,168; Feb. 14; Sp. p. 1976; Gaz. vol. 163; p. 339.
Stein, Sydney. (See Armbrust, Charles W., assignor.)
Steinberg, Jacob, Pittsburg, Pa. Combined churn and ice-cream freezer. No. 984,309; Feb. 14; Sp. p. 2302; Gaz. vol. 163; p. 390.
Steinberger, Louis, New York, N. Y. Telephone-mouthpiece. No. 982,641; Jan. 24; Sp. p. 5403; Gaz. vol. 162; p. 933.
Steinberger, Louis, New York, N. Y. Telephone-mouthpiece. No. 985,638; Feb. 28; Sp. p. 5163; Gaz. vol. 163; p. 913.
Steinberger, Louis, New York, N. Y. Receiver-casing. No. 988,906; Apr. 4; Sp. p. 1284; Gaz. vol. 165; p. 206.
Steinberger, Louis, New York, N. Y. Mouthpiece. No. 988,907; Apr. 4; Sp. p. 1287; Gaz. vol. 165; p. 207.
Steinberger, Louis, New York, N. Y. Mouthpiece. No. 989,076; Apr. 11; Sp. p. 1658; Gaz. vol. 165; p. 288.
Steinberger, Louis, New York, N. Y. High-tension strain-insulator. No. 999,414; Aug. 1; Sp. p. 439; Gaz. vol. 169; p. 77.
Steinberger, Louis, New York, N. Y. Strain-insulator. No. 1,011,652; Dec. 12; Sp. p. 2854; Gaz. vol. 173; p. 476.
Steinbuch, Ewald, Monthey, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Apparatus for electrolysis of fused alkali chlorids. No. 1,012,470; Dec. 19; Sp. p. 4600; Gaz. vol. 173; p. 788.
Steiner, Arnold, assignor to Chemische Fabrik vormals Sandoz, Basel, Switzerland. Manufacture of coloring-matters derived from gallocyanin. No. 992,613; May 16; Sp. p. 3839; Gaz. vol. 166; p. 684.
Steiner, Clarence M., Pittsburg, Pa. Electrical connector. No. 988,518; Apr. 4; Sp. p. 490; Gaz. vol. 165; p. 78.
Steiner, Diethelm, Philadelphia, Pa. Milling-cutter. No. 991,463; May 2; Sp. p. 1357; Gaz. vol. 166; p. 225.
Steiner, Franklin, Conshohocken, Pa. Two-way faucet. No. 981,711; Jan. 17; Sp. p. 3429; Gaz. vol. 162; p. 581.
Steiner, John, Chicago Heights, Ill. Coal-car-unloading machine. No. 982,694; Jan. 24; Sp. p. 5513; Gaz. vol. 162; p. 950.
Steiner, Joseph C., St. Louis, Mo. Food-chopper. No. 1,009,596; Nov. 21; Sp. p. 4376; Gaz. vol. 172; p. 754.
Steiner, Richard, Pforzheim, Germany. Beading and wainscoting of walls. No. 997,214; July 4; Sp. p. 1299; Gaz. vol. 168; p. 211.
Steinert, Bernhardt W., San Antonio, Tex. Swab-holder. No. 986,029; Mar. 7; Sp. p. 590; Gaz. vol. 164; p. 95.
Steines, Frank. (See Ward and Steines.)
Steinharter, Manuel, Philadelphia, Pa. Breast-roll for staking-machines. No. 999,472; Aug. 1; Sp. p. 543; Gaz. vol. 169; p. 96.
Steinhelper, Jacob, Williamsport, Pa. Window-ventilator. No. 994,961; June 13; Sp. p. 1912; Gaz. vol. 167; p. 336.
Steininger, Edward A., Palo Alto, Cal. Railway-crossing guard. No. 993,729; May 30; Sp. p. 6246; Gaz. vol. 166; p. 1128.
Steinke, Gustave, Denver, Colo. Sanitary pocket-spittoon. No. 1,012,471; Dec. 19; Sp. p. 4601; Gaz. vol. 173; p. 789.
Steinke, Theodore G. (See Greulich and Steinke.)
Steinl, George, assignor of one-half to T. J. Shaw, Ginger, Tex. Gas-producer. No. 998,809; July 25; Sp. p. 4828; Gaz. vol. 168; p. 872.
Steinle, Edward M. and W. J., Chicago, Ill. Variable-speed and reversing mechanism. No. 980,847; Jan. 3; Sp. p. 1425; Gaz. vol. 162; p. 228.
Steinle, George A., assignor to Steinle Turret Machine Company, Madison, Wis. Lathe-carriage. No. 990,504; Apr. 25; Sp. p. 4826; Gaz. vol. 165; p. 842.
Steinle Turret Machine Company. (See Steinle, George A., assignor.)
Steinle, William J. (See Steinle, Edward M. and W. J.)
Steinmassl, John, Corona, assignor to himself, and A. Weinkauf, Jamaica, N. Y. Gas-stove. No. 1,012,472; Dec. 19; Sp. p. 4603; Gaz. vol. 173; p. 759.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Rotary converter. No. 981,134; Jan. 10; Sp. p. 2191; Gaz. vol. 162; p. 361.

Alphabetical list of patentees—Continued.

Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Rectifying system for aluminum-cell lightning-arresters. No. 987,924; Mar. 28; Sp. p. 4605; Gaz. vol. 164; p. 829.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Manufacture of filaments for incandescent lamps. No. 988,148; Mar. 28; Sp. p. 5096; Gaz. vol. 164; p. 904.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Vapor-rectifier system. No. 993,899; May 30; Sp. p. 6576; Gaz. vol. 166; p. 1185.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. No. 996,372; June 27; Sp. p. 5011; Gaz. vol. 167; p. 882.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Electric lighting. No. 1,006,021; Oct. 17; Sp. p. 3180; Gaz. vol. 171; p. 571.
Steinmetz, Charles P., Schenectady, N. Y., assignor to General Electric Company. Electric lighting. No. 1,011,088; Dec. 5; Sp. p. 1512; Gaz. vol. 173; p. 239.
Steinmetz, Hannah A., Denver, Colo. Folding screen. No. 991,662; May 9; Sp. p. 1808; Gaz. vol. 166; p. 328.
Steinschneider, Leo, Brünn, Austria-Hungary. Apparatus for distilling oils of the petroleum, tar, and like industries using a high vacuum. No. 981,953; Jan. 17; Sp. p. 4003; Gaz. vol. 162; p. 667.
Steinway, Theodore E., New York, N. Y. Lid for upright pianos. No. 998,422; July 18; Sp. p. 3979; Gaz. vol. 168; p. 705.
Stelck, Henry, Indianapolis, Ind. Removable faucet. No. 1,002,467; Sept. 5; Sp. p. 653; Gaz. vol. 170; p. 94.
Stell, Alfred, Steeton, near Keighley, and J. Stell, Keighley, England. Spinning-machine. No. 993,467; May 30; Sp. p. 5658; Gaz. vol. 166; p. 1035.
Stell, Alfred, Steeton, near Keighley, and J. Stell, Keighley, England. Spinning-machine. No. 993,565; May 30; Sp. p. 5782; Gaz. vol. 166; p. 1070.
Stell, John. (See Stell, Alfred and J.)
Stella, Andrew. (See Benedetti and Stella.)
Stellard, Walter, New York, N. Y., assignor to Universal Paper Bottle Company. Milk-vending apparatus. No. 1,007,501; Oct. 31; Sp. p. 6484; Gaz. vol. 171; p. 1173.
Stelle, Herbert D., and W. E. Baxter, Los Angeles, Cal. Compression axle-lubricator. No. 1,011,136; Dec. 5; Sp. p. 1617; Gaz. vol. 173; p. 256.
Steller, Hermann, and R. Piepenstock, assignors to W. Lumberg, Oeckinghausen, near Karthausen, Germany. Machine for assembling the parts of butt-hinges and the like. No. 1,006,698; Oct. 24; Sp. p. 4705; Gaz. vol. 171; p. 838.
Stellers, William A. (See Blackburn and Stellers.)
Stelling, Henry G., Sunnyvale, Cal. Device for facing ripe cherries. No. 990,403; Apr. 25; Sp. p. 4568; Gaz. vol. 165; p. 806.
Stem, Edgar S., and T. S. Boyd, assignors to Mechanical Specialty Manufacturing Company, Alderson, Pa. Music-holder. No. 981,026; Jan. 10; Sp. p. 1956; Gaz. vol. 162; p. 323.
Stemm, Jackson B., Chicago, Ill., and G. E. Slade, Brookfield, Mo. Telephone system. No. 995,924; June 20; Sp. p. 3998; Gaz. vol. 167; p. 695.
Stemmer, William, Philadelphia, Pa. Aeroplane. No. 990,404; Apr. 25; Sp. p. 4569; Gaz. vol. 165; p. 806.
Stenborg, Frederick A., Wood River, Wis. Sleigh-knee. No. 980,448; Jan. 3; Sp. p. 573; Gaz. vol. 162; p. 95.
Stenius, Charles A., South Bend, Ind. Serving device. No. 1,002,331; Sept. 5; Sp. p. 339; Gaz. vol. 170; p. 48.
Stenman, Karl, New York, N. Y. Cigar-cutter. No. 1,011,517; Dec. 12; Sp. p. 2510; Gaz. vol. 173; p. 427.
Stenslet, Marcelius, Courtenay, N. D. Grain-shocker. No. 982,642; Jan. 24; Sp. p. 5407; Gaz. vol. 162; p. 933.
Stenson, Edward, *et al.* (See Wahlstrom, Charles S., assignor.)
Stenson, Peter J., San Francisco, Cal. Wheel-grip. No. 984,046; Feb. 14; Sp. p. 1730; Gaz. vol. 163; p. 298.
Stensrud, John A., Gull Lake, Saskatchewan, Canada. Smut-machine. No. 984,613; Feb. 21; Sp. p. 2965; Gaz. vol. 163; p. 526.
Stenzel, John E., North Tonawanda, N. Y. Fireless brooder. No. 996,291; June 27; Sp. p. 4814; Gaz. vol. 167; p. 853.
Stephan, Johannes, Witzenhausen, Germany. Apparatus for making cigars. No. 998,268; July 18; Sp. p. 3634; Gaz. vol. 168; p. 649.
Stephany, Edward, Rochester, N. Y. Ventilator. No. 987,504; Mar. 21; Sp. p. 3676; Gaz. vol. 164; p. 656.
Stephens-Adamson Manufacturing Company. (See Regnier, Alfred A., assignor.)
Stephens-Adamson Mfg. Co. (See Dull, Raymond W., assignor.)
Stephens-Adamson Mnfg. Co. (See Kendall, Myron A., assignor.)
Stephens, Alexander H., Oakland, Cal. Nut-lock. No. 986,778; Mar. 14; Sp. p. 2161; Gaz. vol. 164; p. 377.
Stephens, Augustus W., Waltham, Mass. Bottle-cap remover. No. 982,893; Jan. 31; Sp. p. 5966; Gaz. vol. 162; p. 1047.
Stephens, Augustus W., Waltham, Mass. Bottle-cap remover. No. 999,901; Aug. 8; Sp. p. 1422; Gaz. vol. 169; p. 270.
Stephens, Augustus W., Waltham, Mass. Bottle-cap remover. No. 1,007,502; Oct. 31; Sp. p. 6486; Gaz. vol. 171; p. 1174.
Stephens, Charles N., assignor to The Sanitary Hair Goods Company, Chicago, Ill. Hair-rat. No. 1,006,022; Oct. 17; Sp. p. 3182; Gaz. vol. 171; p. 571.
Stephens, Franklen M., Newbern, Tenn. Automatic stock-feeder. No. 998,423; July 18; Sp. p. 3981; Gaz. vol. 168; p. 705.
Stephens, Henry, Cleveland, Ohio. Track-spike. No. 996,893; July 4; Sp. p. 607; Gaz. vol. 168; p. 100.
Stephens, J. W., *et al.* (See May, Henry P., assignor.)
Stephens, James W., Shrewsbury, W. Va. Rail-joint. No. 981,490; Jan. 10; Sp. p. 2985; Gaz. vol. 162; p. 485.
Stephens, Jasper M., and W. A. Zea, Lawton, Okla. Fish grab-hook. No. 995,493; June 20; Sp. p. 3048; Gaz. vol. 167; p. 543.
Stephens, Richard. (See Elton and Stephens.)
Stephens, Walter C., Aplin, N. D. Automatic guiding device. No. 1,005,351; Oct. 10; Sp. p. 1708; Gaz. vol. 171; p. 305.
Stephens, William A., Nashville, Kans. Covering attachment for listers. No. 1,012,287; Dec. 19; Sp. p. 4248; Gaz. vol. 173; p. 729.
Stephenson, Adolphus C., Bloomington, Ill. Window-pane fastener. No. 983,321; Feb. 7; Sp. p. 138; Gaz. vol. 163; p. 25.
Stephenson, Anderson L., deceased; W. E. Stephenson, Findlay, Ohio, administrator. Baling-press. No. 981,491; Jan. 10; Sp. p. 2985; Gaz. vol. 162; p. 485.
Stephenson, Burnette F. (See Barker, Percy E., assignor.)
Stephenson, Charles H., Lynn, Mass. Refuse-disposal device. No. 1,011,874; Dec. 12; Sp. p. 3302; Gaz. vol. 173; p. 549.
Stephenson, Frank B., Marble, Colo. Door-lock. No. 996,292; June 27; Sp. p. 4816; Gaz. vol. 167; p. 854.
Stephenson, Fred A., Green River, Wyo. Non-refillable bottle. No. 986,516; Mar. 14; Sp. p. 1613; Gaz. vol. 164; p. 287.
Stephenson, James A. (See Billington and Stephenson.)
Stephenson, James R., assignor to The National Automatic Tool Company, Dayton, Ohio. Multiple drill. No. 1,012,024; Dec. 19; Sp. p. 3670; Gaz. vol. 173; p. 638.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Guard-rail tie-plate and chair. No. 984,310; Feb. 14; Sp. p. 2304; Gaz. vol. 163; p. 390.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Metallic railway-tie and rail-fastening. No. 995,195; June 13; Sp. p. 2381; Gaz. vol. 167; p. 413.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Rail-joint. No. 995,196; June 13; Sp. p. 2383; Gaz. vol. 167; p. 413.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Railway-tie and rail-fastening. No. 995,197; June 13; Sp. p. 2384; Gaz. vol. 167; p. 413.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Metal railway-tie. No. 995,385; June 13; Sp. p. 2796; Gaz. vol. 167; p. 476.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Metal railway-tie. No. 995,386; June 13; Sp. p. 2798; Gaz. vol. 167; p. 476.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Track-fastening. No. 1,010,971; Dec. 5; Sp. p. 1262; Gaz. vol. 173; p. 200.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Track-fastening. No. 1,010,972; Dec. 5; Sp. p. 1264; Gaz. vol. 173; p. 200.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Foot-guard for railway-track structures. No. 1,011,653; Dec. 12; Sp. p. 2856; Gaz. vol. 173; p. 477.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Foot-guard for railway-track structures. No. 1,011,654; Dec. 12; Sp. p. 2857; Gaz. vol. 173; p. 477.
Stephenson, John W., Toledo, assignor to The National Malleable Castings Company, Cleveland, Ohio. Foot-guard for railway-track structures. No. 1,011,655; Dec. 12; Sp. p. 2858; Gaz. vol. 173; p. 477.
Stephenson, Minerva J., Seward, Nebr. Water cut-off. No. 992,614; May 16; Sp. p. 3841; Gaz. vol. 166; p. 684.
Stephenson, William, assignor to The Fox Reversible Gasoline Engine Company, Newport, Ky. Explosive-engine. No. 1,012,288; Dec. 19; Sp. p. 4250; Gaz. vol. 173; p. 730.
Stephenson, William A., Minden, La. Refrigerator and water-cooler. No. 980,697; Jan. 3; Sp. p. 1124; Gaz. vol. 162; p. 180.
Stephenson, William E., administrator. (See Stephenson, Anderson L.)

Alphabetical list of patentees—Continued.

Stergianopulos, Demetrios, New York, N. Y. Repeating rifle. No. 999,271; Aug. 1; Sp. p. 150; Gaz. vol. 169; p. 28.
Sterick, Charles W., Philadelphia, Pa., assignor of one-fourth to J. H. Gainer and one-fourth to F. A. Thompson and J. Swail, Bridgeport, Ill. Steam-cooker. No. 1,004,099; Sept. 26; Sp. p. 4248; Gaz. vol. 170; p. 757.
Sterley, Alfred G. C., Hamburg, Germany. Preserving eggs. No. 995,198; June 13; Sp. p. 2386; Gaz. vol. 167; p. 414.
Sterling Bronze Company. (See Wagner, Charles, assignor.)
Sterling, Charles A. (See Zamboni, Lawrence, assignor.)
Sterling Cork & Seal Company, The. (See Wetmore, Earl P., assignor.)
Sterling, David I., Berea, assignor to The Cleveland Stone Company, Cleveland, Ohio. Grindstone attachment. No. 981,810; Jan. 17; Sp. p. 3646; Gaz. vol. 162; p. 617.
Sterling, Edgar H., Bellingham, Wash. Saw-grinder. No. 981,135; Jan. 10; Sp. p. 2193; Gaz. vol. 162; p. 361.
Sterling, Frank H., London, England, Apparatus for sealing newspapers and for similar purposes. No. 993,468; May 30; Sp. p. 5661; Gaz. vol. 166; p. 1036.
Sterling Machine Works. (See Charlton, Thomas, assignor.)
Sterling Manufacturing Company *et al.* (See Platt and Rodemeyer, assignors.)
Sterling-Meaker Company. (See Gierding, Charles E., assignor.)
Sterling, Robert D., Denver, Colo. Horseshoe-calk. No. 1,005,580; Oct. 10; Sp. p. 2237; Gaz. vol. 171; p. 386.
Sterling Sales Company. (See Melvin, Mark G., assignor.)
Sterling, William L., Brooklyn, Pa. Vehicle-wheel brake. No. 983,947; Feb. 14; Sp. p. 1507; Gaz. vol. 163; p. 265.
Stern, Albert, assignor to H. Brockmann and E. Rath, Frankfort-on-the-Main, Germany. Nipple-cap. No. 1,012,473; Dec. 19; Sp. p. 4602; Gaz. vol. 173; p. 789.
Stern, Alfred W., Chicago, Ill. Trousers. No. 987,412; Mar. 21; Sp. p. 3498; Gaz. vol. 164; p. 625.
Stern, Carl L., London, and T. R. G. Parker, Broadheath, assignors to Linotype and Machinery Limited, London, England. Sheet-lay mechanism of printing and other machines. No. 1,002,332; Sept. 5; Sp. p. 341; Gaz. vol. 170; p. 48.
Stern, David, New York, N. Y. Hat. No. 995,990; June 20; Sp. p. 4122; Gaz. vol. 167; p. 717.
Stern, Emil, and W. Paciorkiewicz, Charlottenburg, Germany. Selective mechanism for vending apparatus. No. 1,009,265; Nov. 21; Sp. p. 3665; Gaz. vol. 172; p. 639.
Stern, Isidore, New York, N. Y. Artificial tooth. No. 1,008,569; Nov. 14; Sp. p. 2138; Gaz. vol. 172; p. 364.
Stern, Joseph, Philadelphia, Pa. Arch-supporter for boots and shoes. No. 1,000,450; Aug. 15; Sp. p. 2642; Gaz. vol. 169; p. 490.
Stern, Marcus. (See Brousseau, Harry, assignor.)
Stern, Oscar, New York, N. Y. Shoe. No. 1,010,002; Nov. 28; Sp. p. 5213; Gaz. vol. 172; p. 935.
Stern, Philip K., New York, N. Y., assignor to E. Canedy, Chicago Heights, Ill. Sparking plug. No. 995,039; June 13; Sp. p. 2069; Gaz. vol. 167; p. 362.
Sternau & Company, S. (See Nelson, Charles, assignor.)
Sternberg, Kurt R., Springfield, Mass. Mixing-machine. No. 1,009,802; Nov. 28; Sp. p. 4801; Gaz. vol. 172; p. 869.
Sterner, Clement A., Allentown, Pa. Windmill. No. 993,120; May 23; Sp. p. 4926; Gaz. vol. 166; p. 891.
Sterner, John A., Braddock, Pa. Car-coupling. No. 1,008,872; Nov. 14; Sp. p. 2783; Gaz. vol. 172; p. 468.
Sterner, Melancthon, Philadelphia, Pa. Shaving-cup. No. 1,012,474; Dec. 19; Sp. p. 4605; Gaz. vol. 173; p. 790.
Sterrett, Frank E., Denver, Colo. Banana-crate. No. 1,003,540; Sept. 19; Sp. p. 2936; Gaz. vol. 170; p. 536.
Stettiner Chamotte-Fabrik Actien-Gesellschaft vorm. Didier. (See Flaccus, Ludwig C., assignor.)
Stevens, Arthur C., Hounslow, England. Lock. No. 996,159; June 27; Sp. p. 4480; Gaz. vol. 167; p. 810.
Stevens, Burt D., assignor to The Berlin Machine Works, Beloit, Wis. Holding device for planer-head knives. No. 995,040; June 13; Sp. p. 2078; Gaz. vol. 167; p. 362.
Stevens, Burt D., assignor to The Berlin Machine Works, Beloit, Wis. Adjusting means for saws. No. 1,001,783; Aug. 29; Sp. p. 5516; Gaz. vol. 169; p. 1013.
Stevens, Burt D., assignor to The Berlin Machine Works, Beloit, Wis. Band-resaw. No. 1,010,701; Dec. 5; Sp. p. 661; Gaz. vol. 173; p. 106.
Stevens, Byron, Oakland, Cal. Turbine. No. 983,653; Feb. 7; Sp. p. 856; Gaz. vol. 163; p. 136.
Stevens, Charles C., Saginaw, Mich. Extension-ladder. No. 986,517; Mar. 14; Sp. p. 1619; Gaz. vol. 164; p. 288.
Stevens, Charles P., Merkel, Tex. Harrow attachment for cultivators. No. 1,004,307; Sept. 26; Sp. p. 4675; Gaz. vol. 170; p. 827.
Stevens, Edward F. (See McStay and Stevens.)
Stevens, Elbridge W., Baltimore, Md. Internal-combustion engine. No. 981,811; Jan. 17; Sp. p. 3648; Gaz. vol. 162; p. 617.
Stevens, Elbridge W., Baltimore, Md. Process and apparatus for scavenging internal-combustion engines. No. 990,604; Apr. 25; Sp. p. 5025; Gaz. vol. 165; p. 875.
Stevens, Frank E. (See Corbett and Stevens.)
Stevens, Frederick A., Providence, R. I. Eyeglass-mounting. No. 989,077; Apr. 11; Sp. p. 1660; Gaz. vol. 165; p. 288.
Stevens, Frederick M. (See Whipple, Moody, and Stevens.)
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Connector for electric conductors. No. 981,027; Jan. 10; Sp. p. 1958; Gaz. vol. 162; p. 323.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Electric meter. No. 988,042; Mar. 28; Sp. p. 4899; Gaz. vol. 164; p. 869.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Oscillating electric switch. No. 996,373; June 27; Sp. p. 5013; Gaz. vol. 167; p. 883.
Stevens, George E., Lynn, Mass., assignor to General Electric Company. Electrically-heated tool. No. 1,010,529; Dec. 5; Sp. p. 290; Gaz. vol. 173; p. 45.
Stevens, George L., Philadelphia, Pa. Necktie attachment. No. 991,177; May 2; Sp. p. 744; Gaz. vol. 166; p. 126.
Stevens, George W. (See Weiwoda, Mathias, assignor.)
Stevens, H. A., *et al.* (See May, Henry P., assignor.)
Stevens, Henry V. (See Foster and Stevens.)
Stevens, J. E., *et al.* (See Moore, Louis S., assignor.)
Stevens, John G., Washington, D. C. Bulletin-holder. No. 1,007,988; Nov. 7; Sp. p. 749; Gaz. vol. 172; p. 118.
Stevens, Joseph, Woodland, Miss. Measuring apparatus. No. 995,812; June 20; Sp. p. 3764; Gaz. vol. 167; p. 656.
Stevens, Richard H., Munhall, Pa. Rolling-mill. No. 993,730; May 30; Sp. p. 6247; Gaz. vol. 166; p. 1129.
Stevens, Samuel M., Asheville, N. C. Reamer. No. 981,492; Jan. 10; Sp. p. 2987; Gaz. vol. 162; p. 485.
Stevens, Thomas A., Caney, Kans. Sanitary water cooler and filter. No. 992,921; May 23; Sp. p. 4485; Gaz. vol 166; p. 822.
Stevens, Thomas A., Caney, Kans. Sanitary window-ventilator. No. 996,681; July 4; Sp. p. 168; Gaz. vol. 168; p. 30.
Stevens, Truman E., *et al.* (See Vesey, Richard H., assignor.)
Stevens, William, Los Angeles, Cal. Flying-machine. No. 1,011,387; Dec. 12; Sp. p. 2224; Gaz. vol. 173; p. 379.
Stevens, William, assignor of one-half to E. Remington, Los Angeles, Cal. Flying-machine. No. 1,011,386; Dec. 12; Sp. p. 2219; Gaz. vol. 173; p. 379.
Stevens, William C., Pittsburg, Pa., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 995,730; June 20; Sp. p. 3570; Gaz. vol. 167; p. 628.
Stevens, William C., Akron, Ohio, and A. MacGregor, assignors to Pittsburgh Spiral Wire Hoop Company, Pittsburgh, Pa. Barrel-hoop-driving machine. No. 1,008,570; Nov. 14; Sp. p. 2139; Gaz. vol. 172; p. 364.
Stevens, William H., Trenton, assignor of one-half to D. P. Stryker, Somerville, N. J. Spike. No. 1,012,475; Dec. 19; Sp. p. 4607; Gaz. vol. 173; p. 790.
Stevens, Willie J., South Poland, Me., assignor of forty-nine one-hundredths to William D. Warner, Columbus, Ohio. Variable exhaust. No. 1,006,803; Oct. 24; Sp. p. 4947; Gaz. vol. 171; p. 876.
Stevenson, Albert H., Manchester, England. Container for fragile articles. No. 992,997; May 23; Sp. p. 4649; Gaz. vol. 166; p. 848.
Stevenson, Albert H., Manchester, England. Supporting and retaining device for article carriers or containers. No. 992,998; May 23; Sp. p. 4653; Gaz. vol. 166; p. 849.
Stevenson, Ashton G., assignor to Chicago Lino-Tabler Company, Chicago, Ill. Printing-rule and system of applying same to printing-forms. No. 993,328; May 23; Sp. p. 5338; Gaz. vol. 166; p. 957.
Stevenson, Ashton G., assignor to Chicago Lino-Tabler Company, Chicago, Ill. Lug-forming matrix. No. 1,012,741; Dec. 26; Sp. p. 5187; Gaz. vol. 173; p. 929.
Stevenson, Charles M., Rockford, assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Feed and litter carrier. No. 997,716; July 11; Sp. p. 2334; Gaz. vol. 168; p. 412.
Stevenson, Charles M., Rockford, assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Track for litter-carriers. No. 1,003,128; Sept. 12; Sp. p. 2080; Gaz. vol. 170; p. 358.
Stevenson, Charles M., Rockford, assignor to Hunt, Helm, Ferris & Company, Harvard, Ill. Overhead track. No. 1,003,667; Sept. 19; Sp. p. 3222; Gaz. vol. 170; p. 581.
Stevenson, Clarence M., Los Angeles, Cal. Eyeglass-mounting. No. 994,283; June 6; Sp. p. 373; Gaz. vol. 167; p. 63.
Stevenson, David B., Rankin, Pa. Protector for pneumatic tires. No. 994,210; June 6; Sp. p. 230; Gaz. vol. 167; p. 39.
Stevenson, Edgar M., assignor to The Chapin Manufacturing Company, Indianapolis, Ind. Carbureter. No. 1,000,451; Aug. 15; Sp. p. 2643; Gaz. vol. 169; p. 491.
Stevenson, Edward R., Oakland, Oreg. Form for producing artificial tooth-crowns. No. 1,002,773; Sept. 5; Sp. p. 1318; Gaz. vol. 170; p. 198.
Stevenson, George L., assignor to Household Cabinet Works, Providence, R. I. Horn. No. 997,870; July 11; Sp. p. 2717; Gaz. vol. 168; p. 466.

Alphabetical list of patentees—Continued.

Stevenson, George L., Cranston, assignor to Household Cabinet Works, Providence, R. I. Drop-head cabinet. No. 1,000,637; Aug. 15; Sp. p. 3081; Gaz. vol. 169; p. 559.
Stevenson, Herbert R., Montreal West, Quebec, Canada. Game apparatus. No. 998,424; July 18; Sp. p. 3983; Gaz. vol. 168; p. 706.
Stevenson, James H., Guelph, Ontario, Canada. Triple-draft-hay-sling carrier. No. 1,011,388; Dec. 12; Sp. p. 2225; Gaz. vol. 173; p. 379.
Stevenson, John W. (See Dustin, John F., assignor.)
Stevenson, Robert E., Muncie, assignor to The Peerless Water Softener Company, Indianapolis, Ind. Water-softener. No. 1,011,656; Dec. 12; Sp. p. 2860; Gaz. vol. 173; p. 478.
Stevenson, Robert M., Olean, N. Y. Lubricator-cup. No. 984,713; Feb. 21; Sp. p. 3185; Gaz. vol. 163; p. 564.
Stevenson, Virley, Ballardvale, assignor to H. W. Davies, Andover, Mass. Detachable grease-box. No. 996,293; June 27; Sp. p. 4818; Gaz. vol. 167; p. 854.
Stevenson, William H. H., Baltimore, Md. Can-body forming, locking, and soldering machine. No. 997,021; July 4; Sp. p. 917; Gaz. vol. 168; p. 145.
Stevenson, William M., Bennettsville, S. C., assignor to Securities Holding Company. Rotary explosive-engine. No. 1,001,320; Aug. 22; Sp. p. 4573; Gaz. vol. 169; p. 827.
Stevenson, William S., *et al.* (See Gourley, William R., assignor.)
Steves, Charles H., assignor of one-half to A. E. Peterson, Grand Rapids, Mich. Packing-ring. No. 988,833; Apr. 4; Sp. p. 1152; Gaz. vol. 165; p. 184.
Steward, Jon D., Atlanta, Ga. Combination lamp and sign. No. 990,462; Apr. 25; Sp. p. 4698; Gaz. vol. 165; p. 826.
Stewart Aerial Vehicle Company, The. (See Stewart, Robert W., assignor.)
Stewart, Alfred C., Los Angeles, Cal. Economizing-throttle for internal-combustion engines. No. 983,654; Feb. 7; Sp. p. 858; Gaz. vol. 163; p. 137.
Stewart, Alfred C., Los Angeles, Cal. Valve. No. 1,005,581; Oct. 10; Sp. p. 2239; Gaz. vol. 171; p. 386.
Stewart, Alfred C., Los Angeles, Cal. Carbureter. No. 1,010,003; Nov. 28; Sp. p. 5214; Gaz. vol. 172; p. 936.
Stewart, Annie. (See Stewart, James S., assignor.)
Stewart, Benjamin. (See McLeod, John, assignor.)
Stewart, Burns A. (See Mead, Harry, assignor.)
Stewart, Carroll, Nashville, Tenn. Farming implement. No. 990,921; May 2; Sp. p. 205; Gaz. vol. 166; p. 36.
Stewart, Charles, Brooklyn, N. Y. Boiler-circulator. No. 993,566; May 30; Sp. p. 5876; Gaz. vol. 166; p. 1071.
Stewart, Charles, New York, N. Y. Lubricator. No. 994,284; June 6; Sp. p. 375; Gaz. vol. 167; p. 64.
Stewart, Clarence R., Spokane, Wash. Moistener and sealer for envelops, &c. No. 983,004; Jan. 31; Sp. p. 6214; Gaz. vol. 162; p. 1083.
Stewart, Donald, Redwood Falls, Minn. Merry-go-round. No. 982,310; Jan. 24; Sp. p. 4735; Gaz. vol. 162; p. 818.
Stewart, Edward, Kansas City, Mo. Spring-wheel. No. 985,639; Feb. 28; Sp. p. 5166; Gaz. vol. 163; p. 913.
Stewart, Edward, Kansas City, Mo. Engine-shaft check. No. 1,012,176; Dec. 19; Sp. p. 4010; Gaz. vol. 173; p. 691.
Stewart, Harry O. (See Symons, Boyle, and Blaind, assignors.)
Stewart, Harry S., assignor to Crane Company, Chicago, Ill. Molding-machine. No. 1,009,803; Nov. 28; Sp. p. 4803; Gaz. vol. 172; p. 870.
Stewart Hartshorn Company. (See Hartshorn, Stewart, assignor.)
Stewart & Hay Building Co. (See Hyltone, Alexander, assignor.)
Stewart, Horace P., Grand Rapids, Mich. Weeder. No. 993,900; May 30; Sp. p. 6578; Gaz. vol. 166; p. 1185.
Stewart, Horace P., Grand Rapids, Mich. Poison-indicator. No. 1,009,597; Nov. 21; Sp. p. 4378; Gaz. vol. 172; p. 754.
Stewart, James A., Mahomet, Tex. Wire-stretcher. No. 983,782; Feb. 7; Sp. p. 1124; Gaz. vol. 163; p. 180.
Stewart, James S., assignor to A. Stewart, New York, N. Y. Electric-lamp socket. No. 984,245; Feb. 14; Sp. p. 2161; Gaz. vol. 163; p. 367.
Stewart, James S., assignor to A. Stewart, New York, N. Y. Rosette. No. 986,030; Mar. 7; Sp. p. 591; Gaz. vol. 164; p. 95.
Stewart, James S., assignor to A. Stewart, New York, N. Y. Combined taplet or crossover and receptacle. No. 998,810; July 25; Sp. p. 4829; Gaz. vol. 168; p. 872.
Stewart, James S., assignor to Royal Typewriter Company, New York, N. Y. Type-writing machine. No. 987,925; Mar. 28; Sp. p. 4606; Gaz. vol. 164; p. 829.
Stewart, John, Codnor Park, England. Gas-producer. No. 992,615; May 16; Sp. p. 3843; Gaz. vol. 166; p. 684.
Stewart, John A., Denver, Colo. Railway-tie. No. 998,425; July 18; Sp. p. 3984; Gaz. vol. 168; p. 706.
Stewart, John H., Waterloo, Iowa. Sewer-pipe machine. No. 1,000,638; Aug. 15; Sp. p. 3084; Gaz. vol. 169; p. 559.
Stewart, John H., and J. M. Schenk, assignors to The Cement Tile Machinery Company, Waterloo, Iowa. Former-head for tile-machines. No. 1,006,603; Oct. 24; Sp. p. 4530; Gaz. vol. 171; p. 807.
Stewart, John K., Chicago, Ill. Magnetic tachometer. No. 989,659; Apr. 18; Sp. p. 2935; Gaz. vol. 165; p. 518.
Stewart, John K., Chicago, Ill. Speed-timing device for cream-separators and the like. No. 995,199; June 13; Sp. p. 2387; Gaz. vol. 167; p. 414.
Stewart, John K., Chicago, Ill. Magnetic speedometer. No. 995,731; June 20; Sp. p. 3574; Gaz. vol. 167; p. 628.
Stewart, John K., Chicago, Ill. Odometer-train plate. No. 996,294; June 27; Sp. p. 4820; Gaz. vol. 167; p. 854.
Stewart, John K., Chicago, Ill. Motor-cycle-speed-indicator drive connection. No. 996,295; June 27; Sp. p. 4822; Gaz. vol. 167; p. 855.
Stewart, John K., assignor to Chicago Flexible Shaft Company, Chicago, Ill. Animal shears or clipper. No. 994,883; June 13; Sp. p. 1754; Gaz. vol. 167; p. 310.
Stewart, John S., Houston, Tex. Casing mechanism. No. 984,449; Feb. 14; Sp. p. 2567; Gaz. vol. 163; p. 435.
Stewart, Joseph H., *et al.* (See Crocker, James, assignor.)
Stewart, Lon W., Thorp Spring, Tex. Cultivator attachment. No. 981,493; Jan. 10; Sp. p. 2988; Gaz. vol. 162; p. 486.
Stewart, Lou F., *et al.* (See Edgar, George B., Jr., assignor.)
Stewart, Lyman C. (See Quinn and Stewart.)
Stewart, Malcolm D., Hammond, Ind. Car-bolster. No. 992,285; May 16; Sp. p. 3120; Gaz. vol. 166; p. 568.
Stewart, Neil. (See Dougherty and Stewart.)
Stewart, Pritchard, assignor to Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Broom-corn knife. No. 998,046; July 18; Sp. p. 3132; Gaz. vol. 168; p. 570.
Stewart, Richard F., Briarcliff Manor, N. Y. Butter-cutter. No. 998,722; July 25; Sp. p. 4634; Gaz. vol. 168; p. 841.
Stewart, Robert A., assignor to Hill-Independent Mfg. Co., Muskegon, Mich. Seal-press. No. 989,078; Apr. 11; Sp. p. 1662; Gaz. vol. 165; p. 289.
Stewart, Robert L. (See Holladay and Stewart.)
Stewart, Robert W., assignor to The Stewart Aerial Vehicle Company, Oakland, Cal. Aerial machine. No. 984,311; Feb. 14; Sp. p. 2306; Gaz. vol. 163; p. 390.
Stewart, Scott, Rivesville, assignor of two-thirds to R. W. Hall and J. E. Shinn, Fairmont, W. Va. Fountain-brush. No. 1,003,159; Sept. 12; Sp. p. 2147; Gaz. vol. 170; p. 369.
Stewart, Seymour, Savannah, Ga. Motor-vehicle. No. 1,000,853; Aug. 15; Sp. p. 3525; Gaz. vol. 169; p. 634.
Stewart, Thomas H., Atlanta, Ga., assignor to American Can Company, New York, N. Y. Orchard-heater. No. 1,008,997; Nov. 14; Sp. p. 3052; Gaz. vol. 172; p. 507.
Stewart, Walter E., Hartford City, Ind. Mail-box-transmitting apparatus. No. 982,894; Jan. 31; Sp. p. 5967; Gaz. vol. 162; p. 1047.
Stewart, William B., Philadelphia, Pa. Electrical clamp or adjuster. No. 992,821; May 23; Sp. p. 4258; Gaz. vol. 166; p. 785.
Stewart, William C., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Machine for brushing edges of boot and shoe soles. No. 1,005,352; Oct. 10; Sp. p. 1709; Gaz. vol. 171; p. 305.
Stewart, William G., Cleveland, Ohio. Sink connection. No. 980,848; Jan. 3; Sp. p. 1428; Gaz. vol. 162; p. 229.
Stewart, William G., Cleveland, Ohio. Flushing-tank. No. 1,004,707; Oct. 3; Sp. p. 355; Gaz. vol. 171; p. 58.
Stewart, William G., Cleveland, Ohio, assignor to H. Mueller Manufacturing Company, Decatur, Ill. Bath-tub supply-pipe connection. No. 985,853; Mar. 7; Sp. p. 198; Gaz. vol. 164; p. 32.
Stewart, William H., Boston, Mass. Sectional rod. No. 1,010,702; Dec. 5; Sp. p. 664; Gaz. vol. 173; p. 106.
Stewart, William J., Belfast, Ireland. Reinforced concrete structure. No. 985,640; Feb. 28; Sp. p. 5168; Gaz. vol. 163; p. 914.
Stewart, William J., and J. D. McKinnon, Inverness, Nova Scotia, Canada. Center-bearing for cars. No. 990,308; Apr. 25; Sp. p. 4349; Gaz. vol. 165; p. 771.
Stewart, William W., Columbus, Ga. Surgical instrument. No. 994,884; June 13; Sp. p. 1757; Gaz. vol. 167; p. 310.
Stewarts & Lloyds. (See Ballantyne, Robert, assignor.)
Steyer, Arthur F. (See Miller and Steyer.)
Steynis, Jan, New York, N. Y. Ozonizer. No. 997,339; July 11; Sp. p. 1571; Gaz. vol. 168; p. 284.
Stibgen, Harry W. (See Pearman and Stibgen.)
Stich, Arthur J., assignor to International Tool Company, Detroit, Mich. Compound-lever shears. No. 1,012,289; Dec. 19; Sp. p. 4253; Gaz. vol. 173; p. 730.
Stich, John H., Davenport, Iowa. Glass-beveling machine. No. 1,012,227; Dec. 19; Sp. p. 4128; Gaz. vol. 173; p. 708.
Stickdorn, Robert, Dusseldorf, Germany. Flushing apparatus for water-closets. No. 985,952; Mar. 7; Sp. p. 416; Gaz. vol. 164; p. 66.
Stickel, Harry C., Star Junction, Pa. Car-truck. No. 1,011,518; Dec. 12; Sp. p. 2511; Gaz. vol. 173 p. 427.

Stickelbaut, Charles L., Los Angeles, Cal. Motor-cycle attachment. No. 993,567; May 30; Sp. p. 5878; Gaz. vol. 166; p. 1071.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 981,028; Jan. 10; Sp. p. 1960; Gaz. vol. 162; p. 324.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Stenciling-machine. No. 986,031; Mar. 7; Sp. p. 593; Gaz. vol. 164; p. 95.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 989,820; Apr. 18; Sp. p. 3285; Gaz. vol. 165; p. 574.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 990,169; Apr. 18; Sp. p. 4001; Gaz. vol. 165; p. 690.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 990,170; Apr. 18; Sp. p. 4006; Gaz. vol. 165; p. 691.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 990,309; Apr. 25; Sp. p. 4350; Gaz. vol. 165; p. 772.
Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting machine. No. 1,007,746; Nov. 7; Sp. p. 209; Gaz. vol. 172; p. 33.
Stickney, Charles A., St. Paul, Minn. Sparking igniter for internal-combustion engines. No. 1,001,702; Aug. 29; Sp. p. 5349; Gaz. vol. 169; p. 987.
Stickney, George F., Albany, N. Y. Movable crest for dams. No. 989,079; Apr. 11; Sp. p. 1664; Gaz. vol. 165; p. 289.
Stickney, George F., Albany, N. Y. Spillway. No. 991,907; May 9; Sp. p. 2302; Gaz. vol. 166; p. 410.
Stickney, Henry R., Portland, Me. Gas-engine. No. 982,394; Jan. 24; Sp. p. 4900; Gaz. vol. 162; p. 849.
Stickney, Samuel C., St. Paul, Minn., assignor, by mesne assignments, to Positive Rail Anchor Company, Louisville, Ky. Anticreeper for railway-rails. No. 983,092; Jan. 31; Sp. p. 6407; Gaz. vol. 162; p. 1113.
Stidworthy, Bert T., Netcong, N. J. Power-belt. No. 1,004,308; Sept. 26; Sp. p. 4677; Gaz. vol. 170; 828.
Stiefel, George, Chicago, Ill. Bung-closure for barrels. No. 1,011,089; Dec. 5; Sp. p. 1515; Gaz. vol. 173; p. 239.
Stiefel, Ralph C., Ellwood City, assignor to The Shelby Steel Tube Company, Pittsburg, Pa. Tube-rolling. No. 988,834; Apr. 4; Sp. p. 1153; Gaz. vol. 165; p. 184.
Stiegelmann, Armand, and E. Dehnel, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Bleaching composition. No. 984,312; Feb. 14; Sp. p. 2308; Gaz. vol. 163; p. 391.
Stiegelmeyer, John R., Indianapolis, Ind. Load-equalizing car-brake. No. 1,007,155; Oct. 31; Sp. p. 5741; Gaz. vol. 171; p. 1052.
Stieglitz, Jacob, Yonkers, N. Y. Safety-razor. No. 998,426; July 18; Sp. p. 3985; Gaz. vol. 168; p. 706.
Stier, Fredrick M., Atlantic, Iowa. Clod-crusher. No. 985,641; Feb. 28; Sp. p. 5170; Gaz. vol. 163; p. 914.
Stier, John C., Mason City, Iowa. Governor for engines. No. 1,012,025; Dec. 19; Sp. p. 3673; Gaz. vol. 173; p. 639.
Stigberg, Axel E., New York, N. Y. Embossing-press. No. 998,427; July 18; Sp. p. 3986; Gaz. vol. 168; p. 707.
Stiggins, Edward A. (See Ladd and Stiggins.)
Stiggins, Edward A., Beverly, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Gripper. No. 1,012,742; Dec. 26; Sp. p. 5189; Gaz. vol. 173; p. 930.
Stiles, Fred M., Cooperstown, N. Y. Chimney. No. 992,286; May 16; Sp. p. 3124; Gaz. vol. 166; p. 569.
Stiles, Frederick S., and J. Yemiker, Akron, Ohio, assignors to The Faultless Machine & Manufacturing Company. Core for molding tires. No. 995,732; June 20; Sp. p. 3576; Gaz. vol. 167; p. 628.
Stiles, Nellie D., Sparta, Wis. Shade-guide. No. 984,313; Feb. 14; Sp. p. 2309; Gaz. vol. 163; p. 391.
Still, Cuthbert A., Jr., Overton, Tex. Canning apparatus. No. 981,812; Jan. 17; Sp. p. 3653; Gaz. vol. 162; p. 618.
Still, Frank, Mortonville, Pa. Railway-tie. No. 1,011,657; Dec. 12; Sp. p. 2865; Gaz. vol. 173; p. 478.
Stillesen, Job M. A. (See Meyer and Stillesen.)
Stillesen, Job M. A., Niagara Falls Centre, Ontario, Canada. Preparation of lime nitrogen. No. 982,311; Jan. 24; Sp. p. 4737; Gaz. vol. 162; p. 819.
Stillman, Albert A., Syracuse, N. Y. Target-carrier. No. 1,000,639; Aug. 15; Sp. p. 3087; Gaz. vol. 169; p. 559.
Stillman, Francis H. (See Prindle, Harry A., assignor.)
Stillman, Herbert L., Westerly, R. I. Alaeplane. No. 1,011,519; Dec. 12; Sp. p. 2513; Gaz. vol. 173; p. 428.
Stillman, Linus P., *et al.* (See Umbreit, Frederick W., assignor.)
Stillwaggon, John H., Richmond Hill, N. Y. Fastener. No. 988,743; Apr. 4; Sp. p. 945; Gaz. vol. 165; p. 155.
Stillwell, Claude B., Savannah, Ga. Nut-lock. No. 999,606; Aug. 1; Sp. p. 807; Gaz. vol. 169; p. 141.
Stillwell, Howard A., Woodbury, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Machine for packing nitroglycerin compounds into shells. No. 983,655; Feb. 7; Sp. p. 860; Gaz. vol. 163; p. 137.
Stillwell, Howard A., Woodbury, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Machine for assembling caps in a holder. No. 992,922; May 23; Sp. p. 4487; Gaz. vol. 166; p. 823.
Stilson, Herbert A., Morrison, Ill. Trap. No. 995,733; June 20; Sp. p. 3579; Gaz. vol. 167; p. 629.
Stilson, Herbert A., Morrison, Ill. Trap. No. 998,047; July 18; Sp. p. 3133; Gaz. vol. 168; p. 570.
Stilwell, Charles B., Wayne, Pa. Faucet. No. 980,698; Jan. 3; Sp. p. 1125; Gaz. vol. 162; p. 180.
Stilwell, Charles B., Wayne, Pa. Gas-stove. No. 984,314; Feb. 14; Sp. p. 2310; Gaz. vol. 163; p. 391.
Stilwell, Charles B., Wayne, Pa. Gas-igniter. No. 984,315; Feb. 14; Sp. p. 2311; Gaz. vol. 163; p. 391.
Stilwell, Charles B., Wayne, Pa. Indicating mechanism. No. 987,186; Mar. 21; Sp. p. 3015; Gaz. vol. 164; p. 547.
Stilwell, Charles B., Wayne, Pa. Making receptacles. No. 997,717; July 11; Sp. p. 2336; Gaz. vol. 168; p. 412.
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Thread-cutting temple for looms. No. 990,505; Apr. 25; Sp. p. 4828; Gaz. vol. 165; p. 842.
Stimpson, Edward S., assignor to Draper Company, Hopedale, Mass. Loom-shuttle. No. 996,296; June 27; Sp. p. 4825; Gaz. vol. 167; p. 855.
Stimpson, Edward S., Hopedale, Mass., assignor to Draper Company, Hopedale, Mass., and Portland, Me. Loom. No. 999,064; July 25; Sp. p. 5406; Gaz. vol. 168; p. 963.
Stimpson, Edwin B., New York, N. Y., assignor to Edwin B. Stimpson Company. Antiskidding device. No. 984,499; Feb. 14; Sp. p. 2685; Gaz. vol. 163; p. 451.
Stimpson, Edwin B., New York, N. Y., assignor to Edwin B. Stimpson Company. Tire-protective rivet. No. 984,500; Feb. 14; Sp. p. 2687; Gaz. vol. 163; p. 451.
Stimpson, Edwin B., New York, N. Y., assignor to Edwin B. Stimpson Company. Riveting-machine. No. 990,405; Apr. 25; Sp. p. 4571; Gaz. vol. 165; p. 806.
Stimpson Scale & Manufacturing Company. (See Stimpson, Walter F., assignor.)
Stimpson, Walter F., Detroit, assignor to Stimpson Scale & Manufacturing Company, Milan, Mich. Scale. No. 1,006,414; Oct. 17; Sp. p. 4066; Gaz. vol. 171; p. 708.
Stimson, Arthur N., Waterloo, Iowa. Clutch-pulley. No. 1,004,928; Oct. 3; Sp. p. 827; Gaz. vol. 171; p. 134.
Stimson, Charles W., New York, N. Y. Fabric-holding loop and clasp. No. 981,029; Jan. 10; Sp. p. 1965; Gaz. vol. 162; p. 324.
Stimson, Charles W., New York, N. Y. Button and button and loop clasp. No. 986,518; Mar. 14; Sp. p. 1621; Gaz. vol. 164; p. 288.
Stimson, Charles W., New York, N. Y. Button-and-loop clasp. No. 997,473; July 11; Sp. p. 1809; Gaz. vol. 168; p. 327.
Stimson, Charles W., New York, N. Y. Loop for garment-supporter clasps. No. 1,005,353; Oct. 10; Sp. p. 1711; Gaz. vol. 171; p. 306.
Stimson, Frank G., Providence, R. I. Measurement-indicating instrument. No. 990,605; Apr. 25; Sp. p. 5026; Gaz. vol. 165; p. 876.
Stinchcomb, Everett E. (See Hoffman, Charles F., assignor.)
Stinchcomb, Jefferson D. (See Budesheim and Stinchcomb.)
Stine, Isaac D., Decatur, Ill. Casement-window adjuster. No. 1,002,940; Sept. 12; Sp. p. 1709; Gaz. vol. 170; p. 295.
Stine, Isaac D., Decatur, Ill. Anchor-socket for screws. No. 1,007,747; Nov. 7; Sp. p. 215; Gaz. vol. 172; p. 34.
Stine, Joseph M. (See Scheurle and Stine.)
Stine, Samuel B., Osceola Mills, Pa. Dumping apparatus. No. 993,731; May 30; Sp. p. 6250; Gaz. vol. 166; p. 1129.
Stineman, William H. H., assignor of one-fourth to A. Wegefarth, Baltimore, Md. Stoker. No. 984,316; Feb. 14; Sp. p. 2312; Gaz. vol. 163; p. 391.
Stiner, Savenious C., and R. H. Kehring, McKeesport, Pa. Apparatus for the manufacture of tin or like plates. (Reissue.) No. 13,287; Aug. 29; Sp. p. 6409; Gaz. vol. 169; p. 1155.
Stinson, Albert, Vancouver, British Columbia, Canada. Ticket-holding case. No. 981,030; Jan. 10; Sp. p. 1966; Gaz. vol. 162; p. 324.
Stinson, Robert. (See Guyton, William, assignor. (Reissue.)
Stinson, William, Pipestone, Manitoba, Canada. Grass or stubble burner. No. 985,379; Feb. 28; Sp. p. 4586; Gaz. vol. 163; p. 822.
Stinson, William, Pipestone, Manitoba, Canada. Beet-harvester. No. 1,004,156; Sept. 26; Sp. p. 4390; Gaz. vol. 170; p. 777.
Stipe, Robert and W., assignors of one-fourth to A. J. Boitano, Oakland, and one-fourth to L. D. Field, San Francisco, Cal. Steering-gear for surfacing-machines. No. 984,450; Feb. 14; Sp. p. 2569; Gaz. vol. 163; p. 435.
Stipe, Robert and W., assignors of one-fourth to A. J. Boitano, Oakland, and one-fourth to L. D. Field, San Francisco, Cal. Floor surfacing, cleaning, and polishing machine. No. 984,501; Feb. 14; Sp. p. 2688; Gaz. vol. 163; p. 452.

Alphabetical list of patentees—Continued.

Stipe, William. (See Stipe, Robert and W.)
Stiriss, Jacob, Elizabeth, N. J. Depth-gage. No. 988,672; Apr. 4; Sp. p. 817; Gaz. vol. 165; p. 132.
Stirling, William H., assignor of one-half to J. E. Hogan, St. John, New Brunswick, Canada. Injector. No. 987,769; Mar. 28; Sp. p. 4252; Gaz. vol. 164; p. 775.
Stirton, David M., Cascade, British Columbia, Canada. Explosive compound and manufacturing the same. No. 995,579; June 20; Sp. p. 3243; Gaz. vol. 167; p. 573.
Stirtz, William. (See Gallagher, William T., assignor.)
Stites, Christine H., assignor to E. Stites, Bridgeton, N. J. Suspenders. No. 1,010,703; Dec. 5; Sp. p. 666; Gaz. vol. 173; p. 107.
Stites, Ellsmore. (See Stites, Christine H., assignor.)
Stitzel, Arthur P., Louisville, Ky. Continuous filter. No. 981,031; Jan. 10; Sp. p. 1967; Gaz. vol. 162; p. 324.
Stiver, William H., Altoona, Pa. Hand-rail fastening. No. 984,114; Feb. 14; Sp. p. 1871; Gaz. vol. 163; p. 321.
Stivers, Robert E., Hooper, Colo. Plumb-level. No. 987,770; Mar. 28; Sp. p. 4255; Gaz. vol. 164; p. 775.
Stock, August, and F. Heim, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Blue triphenylmethane dyestuff. No. 995,494; June 20; Sp. p. 3049; Gaz. vol. 167; p. 543.
Stock, Augusta M., assignor to Robert Stock Manufacturing Co., Buffalo, N. Y. Barrel-closure. No. 991,663; May 9; Sp. p. 1809; Gaz. vol. 166; p. 329.
Stock, Guy J., Darlington, England. Apparatus for the manufacture of steel. No. 1,004,029; Oct. 3; Sp. p. 828; Gaz. vol. 171; p. 134.
Stock, Henry F. (See Lindemann and Stock.)
Stock, Henry F., Waukesha, Wis. Bottle washing and soaking machine. No. 981,712; Jan. 17; Sp. p. 3431; Gaz. vol. 162; p. 581.
Stock, Robert, Silver Creek, N. Y. Making animal food. No. 991,178; May 2; Sp. p. 745; Gaz. vol. 166; p. 126.
Stock, Robert, assignor to Robert Stock Manufacturing Company, Buffalo, N. Y. Bung-key. No. 1,006,144; Oct. 17; Sp. p. 3464; Gaz. vol. 171; p. 615.
Stock, Robert W., Newark, N. J., assignor to Simmons Pipe Bending Works. Pipe-flanging machine. No. 1,004,492; Sept. 26; Sp. p. 5057; Gaz. vol. 170; p. 890.
Stock, William F. K., Darlington, England. Fertilizer, insecticide, and fungicide. No. 1,003,541; Sept. 19; Sp. p. 2938; Gaz. vol. 170; p. 537.
Stockall, Alfred H., Bath, England. Printer's galley. No. 990,676; Apr. 25; Sp. p. 5206; Gaz. vol. 165; p. 898.
Stockall, Alfred H., Bath, England. Printer's galley. No. 990,677; Apr. 25; Sp. p. 5207; Gaz. vol. 165; p. 899.
Stockbridge, Joseph P. (See Parsons, Law, and Stockbridge.)
Stockel, Frants C., and J. L. T. Popp, Copenhagen, Denmark. Machine for filling and stoppering bottles. No. 986,603; Mar. 14; Sp. p. 1799; Gaz. vol. 164; p. 319.
Stöckel, Paul, Aix-la-Chapelle, Germany. Adjustable pencil-case. No. 988,399; Apr. 4; Sp. p. 237; Gaz. vol. 165; p. 38.
Stocker, Albert P., Struthers, Ohio. Wheel-hub for automobiles and similar vehicles. No. 999,607; Aug. 1; Sp. p. 810; Gaz. vol. 169; p. 141.
Stocker, George, Pasadena, Cal. Trunk. No. 993,469; May 30; Sp. p. 5664; Gaz. vol. 166; p. 1036.
Stocker, Joseph J., St. Louis, Mo. Blower. No. 996,160; June 27; Sp. p. 4481; Gaz. vol. 167; p. 810.
Stocker, Louis, Grahamton, Ky. Licker-in cloth. No. 1,007,900; Nov. 7; Sp. p. 573; Gaz. vol. 172; p. 89.
Stockhausen, Charles L. (See Chlan, Frank C., assignor.)
Stockhausen, Julius, Crefeld, Germany. Fungicide. No. 982,162; Jan. 17; Sp. p. 4399; Gaz. vol. 162; p. 737.
Stockhausen, Julius, Crefeld, Germany. Detergent and production of same. No. 998,995; July 25; Sp. p. 5266; Gaz. vol. 168; p. 938.
Stocking, James F., New York, N. Y. Water-filter. No. 1,001,784; Aug. 29; Sp. p. 5523; Gaz. vol. 169; p. 1014.
Stockinger, Johann, Holzhäuser, Germany. Blotting-pad. No. 990,463; Apr. 25; Sp. p. 4700; Gaz. vol. 165; p. 826.
Stockland, Charles K., Minneapolis, Minn. Grading-machine. No. 1,012,109; Dec. 19; Sp. p. 3861; Gaz. vol. 173; p. 668.
Stockmann, Marie F. C., New York, N. Y. Writing material. No. 987,926; Mar. 28; Sp. p. 4607; Gaz. vol. 164; p. 829.
Stocks, Harry B., Manchester, England. Combined internal-combustion and fluid-pressure engine. No. 1,011,520; Dec. 12; Sp. p. 2514; Gaz. vol. 173; p. 428.
Stockton, Elmer E., and A. H. Porter, assignors to The E. Ingraham Co., Bristol, Conn. Alarm-clock. No. 989,310; Apr. 11; Sp. p. 2165; Gaz. vol. 165; p. 368.
Stockton, George T., assignor of one-third to G. A. Shipley, St. Louis, Mo. Insole cutter and paster. No. 996,734; July 4; Sp. p. 266; Gaz. vol. 168; p. 47.
Stockton, George T., assignor of one-third to G. A. Shipley, St. Louis, Mo. Insole-duck cutter and paster. No. 999,065; July 25; Sp. p. 5408; Gaz. vol. 168; p. 963.
Stoddard, Charles F., Boston, Mass., assignor to American Pneumatic Service Company, Dover, Del. Pneumatic-despatch-tube apparatus. No. 992,822; May 23; Sp. p. 4259; Gaz. vol. 166; p. 786.

Stoddard, Charles F., Boston, Mass., assignor to American Pneumatic Service Company, Dover, Del. Carrier-buffer for pneumatic-tube apparatus. No. 992,823; May 23; Sp. p. 4262; Gaz. vol. 166; p. 787.
Stoddard, Hart. (See O'Brien and Stoddard.)
Stoddard, James H., Los Gatos, Cal. Combination-tool. No. 986,239; Mar. 7; Sp. p. 1011; Gaz. vol. 164; p. 162.
Stoddart, James, Newark, N. J., assignor to The Enos Company, New York, N. Y. Combined lamp and shade holder. No. 1,000,452; Aug. 15; Sp. p. 2644; Gaz. vol. 169; p. 491.
Stoddart, James, Newark, N. J., assignor to The Enos Company, New York, N. Y. Shade-holder. No. 1,002,090; Aug. 29; Sp. p. 6169; Gaz. vol. 169; p. 1115.
Stodola, Aurel, Zurich, Switzerland. Gas-turbine. No. 991,179; May 2; Sp. p. 747; Gaz. vol. 166; p. 127.
Stoehrel, Friedrig H., assignor to The Nolde & Horst Co., Reading, Pa. Drop-stitch mechanism for knitting-machines. No. 1,008,751; Nov. 14; Sp. p. 2536; Gaz. vol. 172; p. 427.
Stoehrel, Friedrig H., assignor to The Nolde & Horst Co., Reading, Pa. Striping and embroidering mechanism for knitting-machines. No. 1,008,752; Nov. 14; Sp. p. 2538; Gaz. vol. 172; p. 428.
Stoelting Brothers Co. (See Moore, Jay W., assignor.)
Stoetzel, Joseph J., Chicago, Ill. Pneumatic observation-tower. No. 989,821; Apr. 18; Sp. p. 3290; Gaz. vol. 165; p. 574.
Stoetzel, Joseph J., Chicago, Ill. Centrifugal pump or blower. No. 1,003,542; Sept. 19; Sp. p. 2939; Gaz. vol. 170; p. 537.
Stoetzel, Joseph J., assignor of one-half to H. J. Cohn, Chicago, Ill. Pneumatic transmission system. No. 994,344; June 6; Sp. p. 494; Gaz. vol. 167; p. 85.
Stoker, Albert E., Chicago, Ill. Rotary pump. No. 982,895; Jan. 31; Sp. p. 5970; Gaz. vol. 162; p. 1047.
Stokes, Homer, assignor of one-sixth to F. M. Brown, one-sixth to W. L. Craft, and one-sixth to J. R. Craft, Beaver Falls, Pa. Carpet-sweeper. No. 991,908; May 9; Sp. p. 2303; Gaz. vol. 166; p. 410.
Stokes, Percy, Philadelphia, Pa., assignor to S. L. Allen, Moorestown, N. J. Locking mechanism. No. 1,007,251; Oct. 31; Sp. p. 5954; Gaz. vol. 171; p. 1086.
Stokes, Milton J., Terre Haute, Ill. Coop. No. 984,977; Feb. 21; Sp. p. 3691; Gaz. vol. 163; p. 651.
Stokes, William E. D., *et al.* (See Larsson, Thure, assignor.)
Stokes, William E. D. (See Stokes and Davis, assignors.)
Stokes, William E. D., Jr., New York, N. Y., and G. W. Davis, Galilee, N. J., assignors to W. E. D. Stokes, New York, N. Y. Coherer. No. 985,854; Mar. 7; Sp. p. 200; Gaz. vol. 164; p. 33.
Stokes, William E. D., Jr., New York, N. Y., and G. W. Davis, Galilee, N. J., assignors to W. E. D. Stokes, New York, N. Y. Aerial for wireless telegraphy and telephony. No. 1,001,227; Aug. 22; Sp. p. 4364; Gaz. vol. 169; p. 794.
Stokes, William E. D., Jr., New York, N. Y., and G. W. Davis, Galilee, N. J., assignors to W. E. D. Stokes, New York, N. Y. Receiving-circuit for wireless telegraphy and telephony. No. 1,001,228; Aug. 22; Sp. p. 4365; Gaz. vol. 169; p. 795.
Stoll, Corus D., Kansas City, Mo. Refrigerator. No. 995,495; June 20; Sp. p. 3050; Gaz. vol. 167; p. 544.
Stoll, Ernest H., Chicago, Ill. Sad-iron shoe. No. 990,922; May 2; Sp. p. 206; Gaz. vol. 166; p. 36.
Stoll, Henry C., Beatrice, Nebr. Earmark. No. 982,896; Jan. 31; Sp. p. 5972; Gaz. vol. 162; p. 1048.
Stollberg, Charles, Toledo, Ohio, assignor to American Can Company, New York, N. Y. Cover-closure for sheet-metal vessels. No. 984,614; Feb. 21; Sp. p. 2966; Gaz. vol. 163; p. 526.
Stollberg, Charles, Toledo, Ohio, assignor to American Can Company, New York, N. Y. Combined sheet-metal oyster display and icing case and can. No. 1,002,333; Sept. 5; Sp. p. 344; Gaz. vol. 170; p. 49.
Stollberg, Charles, Chicago, Ill., assignor to American Can Company, New York, N. Y. Turpentine-collecting cup. No. 989,660; Apr. 18; Sp. p. 2938; Gaz. vol. 165; p. 518.
Stollerz, Johannes, Osterode-in-the-Harz, Germany. Smoke-tube boiler. No. 1,011,658; Dec. 12; Sp. p. 2866; Gaz. vol. 173; p. 478.
Stolp, Frank H., assignor, by mesne assignments, to Rome-Turney Radiator Company, Rome, N. Y. Crimping-machine. No. 1,002,334; Sept. 5; Sp. p. 349; Gaz. vol. 170; p. 50.
Stolte, August, Zweibrücken, Germany. Rotary gas-washer. No. 988,908; Apr. 4; Sp. p. 1290; Gaz. vol. 165; p. 207.
Stolte, Paul, assignor of one-half to S. Katzenstein, Charlottenburg, Germany. Wall with metallic lathing. No. 1,004,100; Sept. 26; Sp. p. 4250; Gaz. vol. 170; p. 757.
Stoltz, Ernest. (See Beaucoudray and Stoltz.)
Stolz, Friedrich, and G. Korndörfer, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. 1-para-dimethylaminophenyl-2, 3, 4-trimethyl-5-pyrazolone and making same. No. 990,310; Apr. 25; Sp. p. 4358; Gaz. vol. 165; p. 772.
Stolz, William J., New York, N. Y. Wrench. No. 990,078; Apr. 18; Sp. p. 3811; Gaz. vol. 165; p. 660.

Alphabetical list of patentees—Continued.

Stombaugh, Arch, Earl, Nebr. Chicken-roost. No. 995,734; June 20; Sp. p. 3581; Gaz. vol. 167; p. 629.
Stone, Alfred S., Clear Lake, S. D. Manure-loader. No. 995,302; June 13; Sp. p. 2586; Gaz. vol. 167; p. 448.
Stone, Andrew, Independence, Mo. Adjustable chair. No. 1,007,813; Nov. 7; Sp. p. 372; Gaz. vol. 172; p. 58.
Stone, Charles E., assignor to E. H. Corson, Boston, Mass. Wrench. No. 1,001,178; Aug. 22; Sp. p. 4255; Gaz. vol. 169; p. 778.
Stone, Charles G., North Bessemer, Pa. Engine pressure-equalizing valve. No. 1,004,493; Sept. 26; Sp. p. 5062; Gaz. vol. 170; p. 891.
Stone, Edgar E., Lawton, Okla. Starching-machine. No. 984,864; Feb. 21; Sp. p. 3478; Gaz. vol. 163; p. 615.
Stone, Edgar E., Chicago, Ill. Detonating device. No. 986,322; Mar. 7; Sp. p. 1177; Gaz. vol. 164; p. 190.
Stone, Edmond and W., Chicago, Ill. Cylinder-grinding machine. No. 993,901; May 30; Sp. p. 6579; Gaz. vol. 166; p. 1185.
Stone, Elmer B., assignor to The Corbin Cabinet Lock Company, New Britain, Conn. Money-receptacle. No. 1,011,521; Dec. 12; Sp. p. 2516; Gaz. vol. 173; p. 428.
Stone, Elmer H., and E. H. Griffith, Detroit, Mich. Telescoping pole. No. 993,121; May 23; Sp. p. 4928; Gaz. vol. 166; p. 892.
Stone, Enoch G., Dexter, N. Mex. Training-pen. No. 988,519; Apr. 4; Sp. p. 492; Gaz. vol. 165; p. 78.
Stone, Fenn O., Cincinnati, Ohio. Making cakes. No. 998,650; July 25; Sp. p. 4466; Gaz. vol. 168; p. 816.
Stone, Frank, Bradford, Pa. Trolley. No. 986,240; Mar. 7; Sp. p. 1012; Gaz. vol. 164; p. 162.
Stone, Fred L. (See Geisenhöner and Stone.)
Stone, George H., Colorado Springs, Colo. Invalid-bed. No. 1,001,089; Aug. 22; Sp. p. 4096; Gaz. vol. 169; p. 751.
Stone, James S., Omaha, Nebr. Harness attachment. No. 1,003,381; Sept. 12; Sp. p. 2599; Gaz. vol. 170; p. 447.
Stone, John A., Chicago, Ill., assignor to International Harvester Company. Snapping-rolls for corn-harvesters. No. 992,287; May 16; Sp. p. 3126; Gaz. vol. 166; p. 569.
Stone, John A., Chicago, Ill., assignor to International Harvester Company. Harvester-reel support. No. 1,004,930; Oct. 3; Sp. p. 829; Gaz. vol. 171; p. 134.
Stone, John S., Boston, Mass. Space telegraphy. No. 986,651; Mar. 14; Sp. p. 1904; Gaz. vol. 164; p. 336.
Stone, Melvin L., Lawrence, assignor to Draper Company, Hopedale, Mass. Warp stop-motion for looms. No. 996,297; June 27; Sp. p. 4827; Gaz. vol. 167; p. 855.
Stone-Probst Axle Company. (See Fellows, Edwin R., assignor.)
Stone, Richard C., assignor to Warner Electric Company, Muncie, Ind. Cabinet for pole-changers and batteries. No. 1,004,101; Sept. 26; Sp. p. 4252; Gaz. vol. 170; p. 758.
Stone, Richard T., Oakland, Cal. Ferry-slip. No. 982,643; Jan. 24; Sp. p. 5410; Gaz. vol. 162; p. 933.
Stone, Richard T., Oakland, Cal. Ferry-slip. No. 982,644; Jan. 24; Sp. p. 5412; Gaz. vol. 162; p. 934.
Stone, Thomas A. (See Peek, James A., assignor.)
Stone and Webster. (See MacKaye, James, assignor.)
Stone, Wilbur M., New York, N. Y., assignor to Oxford Linen Mills. Machine for treating fibrous plants. No. 991,557; May 9; Sp. p. 1572; Gaz. vol. 166; p. 291.
Stone, William. (See Stone, Edmond and W.)
Stone, William F., Woodbury, N. J., assignor to Star Seal Company. Device for removing bottle-seals. No. 996,423; June 27; Sp. p. 5162; Gaz. vol. 167; p. 904.
Stonebridge, Charles H., New York, N. Y. Tent. No. 988,400; Apr. 4; Sp. p. 238; Gaz. vol. 165; p. 39.
Stonebridge, Charles H., New York, N. Y. Tent. No. 988,401; Apr. 4; Sp. p. 242; Gaz. vol. 165; p. 39.
Stoneham, Charles A., *et al.* (See Geraghty and Naylor, assignors.)
Stoner, Jacob A., Altoona, Pa. Railway-tie. No. 981,954; Jan. 17; Sp. p. 4004; Gaz. vol. 162; p. 668.
Stoney, George F., Lorain, Ohio, assignor to National Tube Company, Pittsburg, Pa. Mold for twyers and other hollow articles. No. 992,288; May 16; Sp. p. 3128; Gaz. vol. 166; p. 570.
Stoney, George G. (See Parsons, Stoney, and Bennett.)
Stoney, John T., Cleveland, Ohio. Molding-machine. No. 1,004,602; Oct. 3; Sp. p. 117; Gaz. vol. 171; p. 20.
Stoney, John T., Cleveland, Ohio. Molding-machine. No. 1,004,708; Oct. 3; Sp. p. 358; Gaz. vol. 171; p. 58.
Stopple, Walter W., assignor to Little Giant Hay Press Company, Alma, Mich. Baling-press. No. 1,003,382; Sept. 12; Sp. p. 2600; Gaz. vol. 170; p. 448.
Stora Kopparbergs Bergslags, Aktiebolag. (See Yngström, Lars, assignor.)
Storch, Benjamin, New York, N. Y. Skylight. No. 981,813; Jan. 17; Sp. p. 3654; Gaz. vol. 162; p. 618.
Storck, Frederick W., Boston, assignor to The Standard Stamp Affixer Company, Somerville, Mass. Stamp-affixing machine. No. 993,732; May 30; Sp. p. 6253; Gaz. vol. 166; p. 1129.
Storck, Jesse, Philadelphia, Pa. Roller. No. 1,002,091; Aug. 29; Sp. p. 6170; Gaz. vol. 169; p. 1116.
Storck, Rosa. (See Browning, John H. F., assignor.)
Storer, Otis D. (See Shailor and Storer.)
Storer, Norman W., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric locomotive. No. 981,713; Jan. 17; Sp. p. 3434; Gaz. vol. 162; p. 581.
Storer, Norman W., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric locomotive. No. 991,038; May 2; Sp. p. 438; Gaz. vol. 166; p. 75.
Storer, Norman W., Pittsburg, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Electric-motor drive for locomotives and other railway-vehicles. No. 993,568; May 30; Sp. p. 5880; Gaz. vol. 166; p. 1071.
Storer, Norman W., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Torque-opposing device. No. 996,735; July 4; Sp. p. 268; Gaz. vol. 168; p. 47.
Storer, Simon B., Syracuse, N. Y. Voltage-regulator. No. 1,004,102; Sept. 26; Sp. p. 4253; Gaz. vol. 170; p. 758.
Storey, Isaac H. (See Kitchen and Storey.)
Storle, Ole O., Tacoma, Wash. Violin. No. 1,012,743; Dec. 26; Sp. p. 5194; Gaz. vol. 173; p. 930.
Storle, Ole O., Tacoma, Wash., assignor to O. O. Storle Valve Company, Green Bay, Wis. Hydrant. No. 985,469; Feb. 28; Sp. p. 4815; Gaz. vol. 163; p. 855.
Storm, Ernest, Eggleston, via Darlington, England. Floor and car for amusement purposes. No. 999,902; Aug. 8; Sp. p. 1423; Gaz. vol. 169; p. 271.
Storm, George H., assignor of one-half to P. W. Masi and one-half to C. Sinclair, New York, N. Y. Supplemental seat for motor-cars. No. 1,005,080; Oct. 3; Sp. p. 1089; Gaz. vol. 171; p. 184.
Stormer, Peter G., Johnstown, Pa. Pliers. No. 993,902; May 30; Sp. p. 6581; Gaz. vol. 166; p. 1186.
Storms, George W., Louisville, Ky. Culvert. No. 995,200; June 13; Sp. p. 2388; Gaz. vol. 167; p. 414.
Storms, Jesse B., Albion, N. Y. Farm-gate. No. 1,008,678; Nov. 14; Sp. p. 2384; Gaz. vol. 172; p. 402.
Storrs, Aaron P., assignor to Storrs Mica Company, Owego, N. Y. Canopy-shade. No. 994,211; June 6; Sp. p. 231; Gaz. vol. 167; p. 39.
Storrs, Aaron P., assignor to Storrs Mica Company, Owego, N. Y. Mica chimney. No. 1,000,047; Aug. 8; Sp. p. 1711; Gaz. vol. 169; p. 320.
Storrs, Aaron P., assignor to Storrs Mica Company, Owego, N. Y. Burner. No. 1,000,048; Aug. 8; Sp. p. 1713; Gaz. vol. 169; p. 320.
Storrs Mica Company. (See Storrs, Aaron P., assignor.)
Storsberg, Fritz, Newark, N. J. Electric-light fitting. No. 1,008,086; Nov. 7; Sp. p. 939; Gaz. vol. 172; p. 151.
Storti, Vittorio, Milan, Italy. Apparatus for reproducing the forms of bodies. No. 991,386; May 2; Sp. p. 1199; Gaz. vol. 166; p. 199.
Story, Elliott M., Whitman, Mass. Safety-razor. No. 1,010,704; Dec. 5; Sp. p. 667; Gaz. vol. 173; p. 107.
Story, Robert E., A. B. and J. Booth, Genesee, La. Signaling device. No. 984,317; Feb. 14; Sp. p. 2314; Gaz. vol. 163; p. 392.
Stott, Arthur, Leigh, England. Endless pleasure-railway. No. 1,000,306; Aug. 8; Sp. p. 2305; Gaz. vol. 169; p. 409.
Stott, Grover T., New Carlisle, Ohio. Earth-auger. No. 993,903; May 30; Sp. p. 6582; Gaz. vol. 166; p. 1186.
Stott, Stanley, Cohoes, N. Y. Lens-clip for rimless eyeglasses. No. 996,534; June 27; Sp. p. 5355; Gaz. vol. 167; p. 937.
Stotts, Elza S., Marion, Iowa. Drain-valve. No. 996,600; June 27; Sp. p. 5481; Gaz. vol. 167; p. 959.
Stotts, Elza S., Marion, Iowa. Car-replacer. No. 1,010,973; Dec. 5; Sp. p. 1265; Gaz. vol. 173; p. 200.
Stouder, Albert W., Emporia, Kans. Fly-trap. No. 1,011,389; Dec. 12; Sp. p. 2228; Gaz. vol. 173; p. 380.
Stoudt, William B., Bernharts, Pa. Automatic gas-valve. No. 993,625; May 30; Sp. p. 6005; Gaz. vol. 166; p. 1092.
Stouffer, Benjamin W., Pittsburg, Pa. Joint and coupling. No. 1,002,774; Sept. 5; Sp. p. 1319; Gaz. vol. 170; p. 198.
Stough, Samuel M., and H. C. Larick, Frankfort, Ind. Pipe-threading machine. No. 984,615; Feb. 21; Sp. p. 2968; Gaz. vol. 163; p. 527.
Stought, Lorain M., Crooksville, Ohio. Car-coupling. No. 983,847; Feb. 7; Sp. p. 1267; Gaz. vol. 163; p. 203.
Stoughton Rubber Company. (See Burnham, Ira F., assignor.)
Stout, Edward, and J. S. Kupka, Martinsburg, Iowa. Party-line telephone system. No. 1,008,216; Nov. 7; Sp. p. 1222; Gaz. vol. 172; p. 200.
Stout, George G., Parkersburg, W. Va. Switch. No. 1,005,899; Oct. 17; Sp. p. 2909; Gaz. vol. 171; p. 528.
Stout, Henry C., Mount Sidney, Va. Portable heating apparatus. No. 985,556; Feb. 28; Sp. p. 5006; Gaz. vol. 163; p. 886.
Stout, Lorenzo D., Moorestown, Mich. Bean-puller. No. 994,796; June 13; Sp. p. 1523; Gaz. vol. 167; p. 280.
Stout, Robert P. (See Meigs, Hughes, and Stout.)
Stout, Robert P. (See Meigs and Stout.)
Stover, Clinton W., Canton, Ohio. Pipe-wrench. No. 999,272; Aug. 1; Sp. p. 152; Gaz. vol. 169; p. 29.
Stover, Henry J. S. (See Stover, Jasper S. and H. J. S.)

Alphabetical list of patentees—Continued.

Stover, Jasper S. and H. J. S., Caddo Gap, Ark. Railway-gate. No. 994,615; June 6; Sp. p. 1065; Gaz. vol. 167; p. 177.
Stover Manufacturing Company, The. (See McCulloch, Harry G., assignor.)
Stover, Mark E., assignor of one-half to W. A. Jackson, Detroit, Mich. Refrigerating device. No. 982,192; Jan. 17; Sp. p. 4459; Gaz. vol. 162; p. 747.
Stow, William H., and N. Vickery, Fennville, Mich. Sprinkler. No. 987,413; Mar. 21; Sp. p. 3499; Gaz. vol. 164; p. 625.
Stowe, Bernard A., assignor, by mesne assignments, to The Adams-Bagnall Electric Company, Cleveland, Ohio. Gearing. No. 988,043; Mar. 28; Sp. p. 4902; Gaz. vol. 164; p. 870.
Stowe, Bernard A., assignor, by mesne assignments, to The Adams-Bagnall Electric Company, Cleveland, Ohio. Ventilating mechanism. No. 992,824; May 23; Sp. p. 4263; Gaz. vol. 166; p. 787.
Stowe, Bernard A., assignor, by mesne assignments, to The Adams-Bagnall Electric Company, Cleveland, Ohio. Oscillating fan. No. 1,012,110; Dec. 19; Sp. p. 3869; Gaz. vol. 173; p. 668.
Stowe, Elihu B., Stockton, Cal. Priming attachment for gasolene-motors. No. 995,201; June 13; Sp. p. 2389; Gaz. vol. 167; p. 414.
Stowe, Horace W., Meriden, Conn. Valve for pneumatics of mechanical musical instruments. No. 1,012,744; Dec. 26; Sp. p. 5195; Gaz. vol. 173; p. 930.
Stoy, Guy E. (See Blackmond and Stoy.)
Stradtman, Henry. (See Maisel, Conrad M., assignor.)
Strahan, John D., Shadypoint, Okla. Bale-tie buckle. No. 1,007,814; Nov. 7; Sp. p. 374; Gaz. vol. 172; p. 58.
Straight, Bennett D. (See Schweiger and Straight.)
Straight, Robert C., Dearborn, Mich. Fire-protector. No. 991,909; May 9; Sp. p. 2304; Gaz. vol. 166; p. 410.
Straight, William J., Chicago, Ill. Vehicle-wheel. No. 983,177; Jan. 31; Sp. p. 6552; Gaz. vol. 162; p. 1140.
Strait, George L., Winsted, Conn. Ice-cutting machine. No. 1,012,745; Dec. 26; Sp. p. 5197; Gaz. vol. 173; p. 931.
Straka, John, and R. Lewis, Kansas City, Mo. Door-bell. No. 995,416; June 13; Sp. p. 2870; Gaz. vol. 167; p. 487.
Straka, John, and R. Lewis, Kansas City, Mo. Lock. No. 995,417; June 13; Sp. p. 2873; Gaz. vol. 167; p. 488.
Strandberg, Frants, Aspedammen, near Fredrikshald, Norway. Stone-dressing tool. No. 988,402; Apr. 4; Sp. p. 246; Gaz. vol. 165; p. 40.
Stranders, Julien, assignor to H. B. Kruger, New York, N. Y. Display device. No. 1,002,775; Sept. 5; Sp. p. 1320; Gaz. vol. 170; p. 199.
Strandt, Gustav, Milwaukee, Wis. Milk-bottling machine. No. 1,011,263; Dec. 12; Sp. p. 1948; Gaz. vol. 173; p. 336.
Strandt, Gustav, Milwaukee, Wis. Milk-bottling machine. No. 1,011,264; Dec. 12; Sp. p. 1952; Gaz. vol. 173; p. 336.
Strange, Ayers A., and W. Anderson, Memphis, Tenn.; said Anderson assignor of one-half to said Strange. Trolley-pole-operating means. No. 991,039; May 2; Sp. p. 440; Gaz. vol. 166; p. 76.
Strange, Ayers A., and W. Anderson, Memphis, Tenn.; said Anderson assignor of one-half to said Strange. Pressure-controlled operating means for trolley-poles. No. 991,040; May 2; Sp. p. 443; Gaz. vol. 166; p. 76.
Strange, Calvin C., and J. M. Hoben, Galesburg, Ill. Grain-elevator. No. 980,699; Jan. 3; Sp. p. 1127; Gaz. vol. 162; p. 180.
Strange, Edward H., assignor to Ribbon Metals Syndicate Limited, London, England. Apparatus for making metal strips, foil, sheets, or ribbons. No. 993,904; May 30; Sp. p. 6583; Gaz. vol. 166; p. 1186.
Strange, Edward H., Staple Inn, London, assignor of one-half to E. R. Burrell, Millwall, London, England. Manufacture of varnishes. No. 1,011,659; Dec. 12; Sp. p. 2868; Gaz. vol. 173; p. 479.
Strange, Frank A. (See Robinson, Julius G., assignor.)
Strange, William H., Chicago, Ill. Floor-scrubbing device. No. 981,032; Jan. 10; Sp. p. 1969; Gaz. vol. 162; p. 324.
Strange, William H., Chicago, Ill. Electric floor-scrubbing machine. No. 990,506; Apr. 25; Sp. p. 4830; Gaz. vol. 165; p. 842.
Strangman, William F., Salem, Mass. Massaging device for the gums. No. 1,002,468; Sept. 5; Sp. p. 654; Gaz. vol. 170; p. 94.
Strasburger, Charles F., Chicago, Ill. Apparatus for testing the consistency of liquids. No. 989,822; Apr. 18; Sp. p. 3293; Gaz. vol. 165; p. 574.
Strasburger, Frank C. H., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Filling-machine. (Reissue.) No. 13,197; Jan. 17; Sp. p. 4537; Gaz. vol. 162; p. 760.
Strasburger, Frank C. H., assignor to Bottlers Machinery Manufacturing Company, Chicago, Ill. Filling-machine. No. 991,664; May 9; Sp. p. 1811; Gaz. vol. 166; p. 329.
Strathern, Alexander G., Gartsherrie, Coatbridge, Scotland. Plate-holding clamp. No. 1,011,660; Dec. 12; Sp. p. 2869; Gaz. vol. 173; p. 479.
Stratton, C. M. (See Stratton, Harper E., assignor.)
Stratton, Edward S., Manchester, N. H. Means for facilitating the handling of roving-cans. No. 990,678; Apr. 25; Sp. p. 5208; Gaz. vol. 165; p. 890.
Stratton, Egbert A., Hampstead, London, assignor to Mansell, Hunt, Catty and Company, Limited, London, England. Contrivance for making capsules for bottles and the like. No. 1,012,026; Dec. 19; Sp. p. 3675; Gaz. vol. 173; p. 639.
Stratton, George M., Conshohocken, Pa., assignor, by mesne assignments, to Johnson & Johnson, New Brunswick, N. J. Container for ligatures, &c. No. 990,679; Apr. 25; Sp. p. 5212; Gaz. vol. 165; p. 900.
Stratton, Harper, Empire, Ohio. Flue-cleaner for boilers. No. 1,000,453; Aug. 15; Sp. p. 2646; Gaz. vol. 169; p. 491.
Stratton, Harper E., Empire, assignor of one-half to C. M. Stratton, Toronto, Ohio. Gear-wheel. No. 995,387; June 13; Sp. p. 2800; Gaz. vol. 167; p. 477.
Stratton, Harry F. (See Eastwood and Stratton.)
Stratton, Harry F., assignor to The Electric Controller and Manufacturing Company, Cleveland, Ohio. Electric controller. No. 1,004,825; Oct. 3; Sp. p. 589; Gaz. vol. 171; p. 97.
Stratton, William H., Chicago, Ill. Paper-guide for printing-presses. No. 990,311; Apr. 25; Sp. p. 4359; Gaz. vol. 165; p. 772.
Straub, Constantine L. (See Pettibone and Straub.)
Straub, Jackson L., assignor to The Star Ball Retainer Company, Lancaster, Pa. Ball-retainer. No. 1,010,974; Dec. 5; Sp. p. 1267; Gaz. vol. 173; p. 201.
Straub, Valentine W., San Jose, Cal. Wheel-detacher. No. 984,978; Feb. 21; Sp. p. 3692; Gaz. vol. 163; p. 652.
Straubel, Richard, and C. J. Vetter, Brooklyn, N. Y., assignors to American Optical Company, Southbridge, Mass. Eyeglasses. No. 988,954; Apr. 4; Sp. p. 1383; Gaz. vol. 165; p. 222.
Straubel, Rudolf, assignor to Firm of C. Zeiss, Jena, Germany. Optical testing appliance. No. 994,962; June 13; Sp. p. 1914; Gaz. vol. 167; p. 337.
Straubel, Rudolf, assignor to The Firm of C. Zeiss, Jena, Germany. Sighting-telescope. No. 1,006,699; Oct. 24; Sp. p. 4707; Gaz. vol. 171; p. 838.
Strauss Bascule and Concrete Bridge Company, The. (See Strauss, Joseph B., assignor.)
Strauss, David, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Precipitating alkaline-earth oxalates. No. 995,041; June 13; Sp. p. 2080; Gaz. vol. 167; p. 363.
Strauss, E. Hugo, *et al.* (See Lange, Wilhelm E., assignor.)
Strauss, Franz P., assignor to The Corporation of Adlerwerke vorm. Heinrich Kleyer A.-G., Frankfort-on-the-Main, Germany. Type-writing machine. No. 981,895; Jan. 17; Sp. p. 3838; Gaz. vol. 162; p. 647.
Strauss, Joseph B., Chicago, Ill. Safety device for vehicles. No. 988,520; Apr. 4; Sp. p. 494; Gaz. vol. 165; p. 79.
Strauss, Joseph B., assignor to The Strauss Bascule and Concrete Bridge Company, Chicago, Ill. Bridge. No. 995,813; June 20; Sp. p. 3766; Gaz. vol. 167; p. 657.
Strauss, S. (See Divok, Allexander F., assignor.)
Strawmeyer, Charles F., assignor of one-fourth to C. Ross, Altoona, Pa. Safety device for air-brake hose. No. 993,122; May 23; Sp. p. 4930; Gaz. vol. 166; p. 892.
Strealy, William J., assignor of one-third to W. T. Anderson, Lewisburg, W. Va. Tool. No. 993,207; May 23; Sp. p. 5094; Gaz. vol. 166; p. 918.
Strebel, Louis. (See Eils and Strebel.)
Strebel, Louis, assignor to Globe Machine & Stopper Company, New York, N. Y. Die. No. 1,009,699; Nov. 21; Sp. p. 4568; Gaz. vol. 172; p. 787.
Streberger, John F., assignor to Jos. N. Smith and Company, Detroit, Mich. Lock for carriage-doors. No. 987,651; Mar. 21; Sp. p. 3966; Gaz. vol. 164; p. 707.
Strecker, Charles B. (See MacCoy, Andrew T., assignor.)
Street, Charles A., St. Louis, Mo. Generator. No. 1,012,476; Dec. 19; Sp. p. 4607; Gaz. vol. 173; p. 790.
Street, Francis L. (See Barry and Street.)
Street, Lulabelle, Tucumcari, N. Mex. Back-support. No. 999,415; Aug. 1; Sp. p. 441; Gaz. vol. 169; p. 78.
Streeter, Alfred L., assignor of one-half to Illinois Malleable Iron Company, Chicago, Ill. Brake-shoe. No. 981,896; Jan. 17; Sp. p. 3839; Gaz. vol. 162; p. 648.
Streeter-Amet Weighing & Recording Company. (See Goetz, George, assignor.)
Streib, John F., Avalon, assignor to Pressed Steel Car Company, Pittsburg, Pa. Door-operating mechanism. No. 998,929; July 25; Sp. p. 5099; Gaz. vol. 168; p. 915.
Streiber, Henry E., assignor to The Sun Vapor Street Light Company, Canton, Ohio. Street-lamp. No. 990,680; Apr. 25; Sp. p. 5212; Gaz. vol. 165; p. 900.
Streibich, John C. (See Gay and Streibich.)
Streich, Frank, assignor to American Bakers' Machinery Company, St. Louis, Mo. Dough-dividing machine. No. 1,003,543; Sept. 19; Sp. p. 2943; Gaz. vol. 170; p. 537.
Streich, Paul B., assignor to American Baker's Machinery Company, St. Louis, Mo. Dough-molding machine. No. 986,413; Mar. 7; Sp. p. 1381; Gaz. vol. 164; p. 223.
Streifert, Charles T., Rome, N. Y. Shaft-holder. No. 990,079; Apr. 18; Sp. p. 3812; Gaz. vol. 165; p. 661.
Streit, Nickolas, Chicago, Ill. Adjustable book-rest. No. 994,797; June 13; Sp. p. 1524; Gaz. vol. 167; p. 280.

Alphabetical list of patentees—Continued.

Strepey, Lindsay S., Victor, Colo. Nut and bolt lock. No. 990,681; Apr. 25; Sp. p. 5214; Gaz. vol. 165; p. 900.
Stresenreuter, Charles H., Chicago, Ill. Builder's crane. No. 983,578; Feb. 7; Sp. p. 704; Gaz. vol. 163; p. 110.
Stricker, Ludwig L. (See Lanier, Lewis H., assignor.)
Strickland, Allison, Drummond, Mich. Saw-sharpener. No. 1,006,986; Oct. 24; Sp. p. 5351; Gaz. vol. 171; p. 939.
Strickland, David, New York, N. Y., assignor to The American Clay Machinery Company, Bucyrus, Ohio. Brickmaking machinery. No. 1,012,290; Dec. 19; Sp. p. 4250; Gaz. vol. 173; p. 731.
Strickler, James P., Columbus, Ohio. Pipe-coupling. No. 1,007,989; Nov. 7; Sp. p. 751; Gaz. vol. 172; p. 118.
Strietelmeier, John E., assignor to The Ideal Wheel Company, Cincinnati, Ohio. Wheel. No. 1,008,679; Nov. 14; Sp. p. 2385; Gaz. vol. 172; p. 403.
Stringfield, Annie M., New York, N. Y. Staff and certain key-symbols for musical notation. No. 1,004,215; Sept. 26; Sp. p. 4501; Gaz. vol. 170; p. 796.
Stringham, John H., Jersey City, N. J. Ignition in explosive-engines. No. 1,000,454; Aug. 15; Sp. p. 2647; Gaz. vol. 169; p. 492.
Stripe, Jacob H., Van Wert, Ohio. Window-sash. No. 1,009,598; Nov. 21; Sp. p. 4379; Gaz. vol. 172; p. 755.
Ströbeck, Frans T., Beachmont, Mass., assignor to The Singer Manufacturing Company. Sewing-machine. No. 986,652; Mar. 14; Sp. p. 1908; Gaz. vol. 164; p. 336.
Strobel, Jacob, New York, N. Y. Life-preserver. No. 1,001,476; Aug. 22; Sp. p. 4866; Gaz. vol. 169; p. 878.
Strohhaecker, George A. (See Hoefer and Strohhaecker.)
Strohl, Friedrich, Rumpenheim-on-the-Main, assignor to C. A. Neubecker, Offenbach-on-the-Main, Germany. Automatic keg washing and sprinkling machine. No. 1,003,014; Sept. 12; Sp. p. 1845; Gaz. vol. 170; p. 319.
Strohm, Albert B., Columbus, Ohio. Pump. No. 985,300; Feb. 28; Sp. p. 4437; Gaz. vol. 163; p. 798.
Strohm, Albert B., Columbus, Ohio. Automatic switch. No. 993,804; May 30; Sp. p. 6397; Gaz. vol. 166; p. 1153.
Strohmaier, Karl A., Chemnitz, Germany. Cutting appliance for sewing-machines. No. 1,012,746; Dec. 26; Sp. p. 5199; Gaz. vol. 173; p. 931.
Strohmer, William, Pueblo, Colo. Motor-plow. No. 987,652; Mar. 21; Sp. p. 3968; Gaz. vol. 164; p. 707.
Strohn, Emil W., assignor to J. P. Devine Company, Buffalo, N. Y. Vacuum drying apparatus. No. 981,494; Jan. 10; Sp. p. 2990; Gaz. vol. 162; p. 486.
Strom, Andrew A. (See Hershberger, Peter W., assignor.)
Strom, Charles J., Augusta, Ga. Stock-taking device. No. 986,955; Mar. 14; Sp. p. 2533; Gaz. vol. 164; p. 438.
Stromberg, Alfred. (See Willis, George M., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Clausen, Henry P., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Dyson, Alfred H., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Kahl, Arthur R., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Schellenger, Newton C., assignor.)
Stromberg-Carlson Telephone Manufacturing Company. (See Temple and Goodrum, assignors.)
Strömberg, Peder P., Gjesaasen, Norway. Shifting spanner. No. 989,080; Apr. 11; Sp. p. 1665; Gaz. vol. 165; p. 289.
Stromborg, Fritz O., Seattle, Wash. Screening device. No. 1,005,900; Oct. 17; Sp. p. 2911; Gaz. vol. 171; p. 528.
Stroner, George, and W. C. Buege, Globe, Ariz. Toolholder. No. 1,010,975; Dec. 5; Sp. p. 1269; Gaz. vol. 173; p. 201.
Strong Arm Manufacturing Company, The. (See Armstrong, William P., assignor.)
Strong, Carlisle & Hammond Company, The. (See Weintz, Jacob, assignor.)
Strong, Dan D., assignor of one-half to M. L. Davis, Memphis, Tenn. Hose-coupling implement. No. 1,001,321; Aug. 22; Sp. p. 4575; Gaz. vol. 169; p. 827.
Strong, Frederick F., St. Petersburg, Fla. Converting fibrous plants into textile fiber and pulp. No. 1,005,354; Oct. 10; Sp. p. 1712; Gaz. vol. 171; p. 306.
Strong, George A., Polytechnic, Tex. Tree-trimmer. No. 1,010,817; Dec. 5; Sp. p. 921; Gaz. vol. 173; p. 145.
Strong, James B., Hillburn, N. Y. Reinforced frog. No. 983,948; Feb. 14; Sp. p. 1509; Gaz. vol. 163; p. 266.
Strong, James B., Hillburn, N. Y. Switch-stand. No. 1,005,081; Oct. 3; Sp. p. 1091; Gaz. vol. 171; p. 184.
Strong, James B., and J. D. McPherson; said Strong assignor to Ramapo Iron Works, Hillburn, N. Y. Track-intersection structure. No. 988,909; Apr. 4; Sp. p. 1292; Gaz. vol. 165; p. 208.
Strong, John O., and F. E. Baer, Baltimore, Md., assignors to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 1,007,748; Nov. 7; Sp. p. 216; Gaz. vol. 172; p. 34.
Strong, Leslie P., assignor to The Clark Manufacturing Company, Cleveland, Ohio. Steam-trap. No. 998,723; July 25; Sp. p. 4636; Gaz. vol. 168; p. 842.
Strong, Samuel D., Homer, Mich. Furnace. No. 1,002,776; Sept. 5; Sp. p. 1322; Gaz. vol. 170; p. 199.
Strong, Sutton, Terre Haute, Ind. Machine for forming concrete blocks. No. 1,000,207; Aug. 8; Sp. p. 2110; Gaz. vol. 169; p. 375.
Strootman, John, Buffalo, N. Y. Cushion instep-raiser for shoes. No. 1,009,110; Nov. 21; Sp. p. 3304; Gaz. vol. 172; p. 584.
Strope, George W. (See Pierce, Harry, assignor.)
Strother, Robert H., New York, N. Y. Power-transmitting device. No. 1,002,880; Sept. 12; Sp. p. 1574; Gaz. vol. 170; p. 273.
Strother, Robert H., Montclair, N. J., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 990,312; Apr. 25; Sp. p. 4360; Gaz. vol. 165; p. 772.
Strother, Robert H., Montclair, N. J., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 990,406; Apr. 25; Sp. p. 4577; Gaz. vol. 165; p. 807.
Strother, William M., assignor, by mesne assignments, to Air Cooling Refrigerating Company, Los Angeles, Cal. Refrigerator. No. 984,714; Feb. 21; Sp. p. 3186; Gaz. vol. 163; p. 564.
Stroud, Harrison E., Los Angeles, Cal. Spring-wheel. No. 1,000,640; Aug. 15; Sp. p. 3089; Gaz. vol. 169; p. 560.
Stroud, William. (See Barr and Stroud.)
Stroup, Daniel W., Braddock, Pa. Forming hollow axles. No. 1,007,815; Nov. 7; Sp. p. 375; Gaz. vol. 172; p. 59.
Stroup, Haltom M., Pineville, N. C. Gin-saw cleaner. No. 1,009,111; Nov. 21; Sp. p. 3305; Gaz. vol. 172; p. 584.
Strouse Alder & Co., The. (See Welton, Frank T., assignor.)
Strouse Corset Co., The. (See Strouse, Jacob E., assignor.)
Strouse, Jacob E., assignor to The Strouse Corset Co., New Haven, Conn. Corset. No. 986,779; Mar. 14; Sp. p. 2162; Gaz. vol. 164; p. 377.
Struble, Jacob B., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-signal. No. 987,653; Mar. 21; Sp. p. 3969; Gaz. vol. 164; p. 707.
Struble, Jacob B., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Relay. No. 988,955; Apr. 4; Sp. p. 1384; Gaz. vol. 165; p. 223.
Struble, Jacob B., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Signaling system for electric railways. No. 997,215; July 4; Sp. p. 1300; Gaz. vol. 168; p. 212.
Strunk, Herschel B., Detroit, Mich., assignor of one-third to E. P. Lang, Chicago, Ill. Starting device for explosion-engines. No. 995,925; June 20; Sp. p. 3999; Gaz. vol. 167; p. 695.
Struthers, James A., Minneapolis, Minn. Undergarment. No. 981,815; Jan. 17; Sp. p. 3660; Gaz. vol. 162; p. 619.
Stryker, Dick P. (See Stevens, William H., assignor.)
Stryker, Frank F., administrator. (See Marsh, Calvin D.)
Strzempkoski, Vincent M., Milwaukee, Wis. Hat-block. No. 1,006,145; Oct. 17; Sp. p. 3466; Gaz. vol. 171; p. 615.
Stuart, Charles E. (See Probert and Stuart.)
Stuart, Charles H., Newark, N. Y. Collapsible tube. No. 1,005,668; Oct. 10; Sp. p. 2422; Gaz. vol. 171; p. 416.
Stuart, Ernest E. (See Swan and Stuart.)
Stuart, Frank, Northfield, assignor of one-half to A. D. McFaul, Machias, Me. Log-bundler. No. 998,651; July 25; Sp. p. 4467; Gaz. vol. 168; p. 816.
Stuart, Harve R., Wheeling, W. Va. Telephone-receiver. No. 988,044; Mar. 28; Sp. p. 4903; Gaz. vol. 164; p. 870.
Stuart, Harve R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 981,816; Jan. 17; Sp. p. 3661; Gaz. vol. 162; p. 619.
Stuart, John A. (See Jones, Edwin, assignor.)
Stuart, Joseph, assignor to Lobdell Car Wheel Company, Wilmington, Del. Car-wheel equipment. No. 986,323; Mar. 7; Sp. p. 1178; Gaz. vol. 164; p. 191.
Stuart, Louis J. F., Bridgeport, Conn. Grapple. No. 993,905; May 30; Sp. p. 6585; Gaz. vol. 166; p. 1186.
Stuart, William H., Rahway, and J. W. Hallard, Plainfield, N. J. Combination-tool. No. 1,001,229; Aug. 22; Sp. p. 4366; Gaz. vol. 169; p. 795.
Stubbers, Joseph, Covington, Ky., assignor to The Incandescent Light & Stove Company, Cincinnati, Ohio. Service-pipe for lighting systems. No. 996,535; June 27; Sp. p. 5355; Gaz. vol. 167; p. 937.
Stubblefield, George, Mayfield, Ky. Log-loader for wagons. No. 990,407; Apr. 25; Sp. p. 4582; Gaz. vol. 165; p. 807.
Stubbs, Charles W., Maple Plain, Minn. Scraper for cleaning lake and river shores. No. 991,665; May 9; Sp. p. 1816; Gaz. vol. 166; p. 330.
Stubbs, James T., Springfield, Ill. Siding-gage. No. 1,011,390; Dec. 12; Sp. p. 2229; Gaz. vol. 173; p. 380.
Stubbs, Marshal A., Dillon, S. C. Fertilizer-distributer. No. 981,136; Jan. 10; Sp. p. 2195; Gaz. vol. 162; p. 361.
Stubenrauch, Herman F., Chicago, Ill. Fountain brush or dauber. No. 1,007,816; Nov. 7; Sp. p. 376; Gaz. vol. 172; p. 59.
Stubling, Arthur C., and F. C. Gibson, Portland, Oreg. Electric garment. No. 1,006,415; Oct. 17; Sp. p. 4068; Gaz. vol. 171; p. 709.

Alphabetical list of patentees—Continued.

Stuck, Everett, Jamestown, N. Y. Metallic shelving. No. 985,222; Feb. 28; Sp. p. 4260; Gaz. vol. 163; p. 771.
Stuckel, William C., Newark, N. J. Pin-protector. No. 997,474; July 11; Sp. p. 1812; Gaz. vol. 168; p. 328.
Stuckey, William, Rice Lake, Wis. Cattle-stanchion. No. 991,558; May 9; Sp. p. 1573; Gaz. vol. 166; p. 291.
Stuckey, William A., Clarkshill, Ind. Stovepipe-cleaner. No. 997,160; July 4; Sp. p. 1189; Gaz. vol. 168; p. 193.
Stucki, Arnold, Allegheny, Pa. Locomotive. No. 1,001,703; Aug. 29; Sp. p. 5351; Gaz. vol. 169; p. 987.
Stuckwisch, Rudolph, Indianapolis, Ind. Dump-wagon. No. 986,604; Mar. 14; Sp. p. 1802; Gaz. vol. 164; p. 319.
Stucky, Stephen, Oxford, assignor of one-half to W. H. McKleroy, Anniston, Ala. Valve. No. 999,608; Aug. 1; Sp. p. 812; Gaz. vol. 169; p. 142.
Studds, Julian L., Alexandria, Va., assignor of one-half to L. E. Smoot, Washington, D. C. Automatic safety gage-cock. No. 1,000,455; Aug. 15; Sp. p. 2649; Gaz. vol. 169; p. 492.
Studebaker Brothers Manufacturing Company. (See Haeske, Charles M., assignor.)
Studebaker Brothers Manufacturing Company. (See Potter, Henry K., assignor.)
Studebaker Brothers Manufacturing Company. (See Pratt, Earl H., assignor.)
Stuebner, Gustavus L., Flushing, N. Y. Bottom-dumping bucket. No. 986,100; Mar. 7; Sp. p. 730; Gaz. vol. 164; p. 118.
Stuebner, Gustavus L., Flushing, N. Y. Bottom-dumping bucket. No. 986,101; Mar. 7; Sp. p. 732; Gaz. vol. 164; p. 118.
Stuebner, Gustavus L., Flushing, N. Y. Dumping-bucket. No. 999,903; Aug. 8; Sp. p. 1425; Gaz. vol. 169; p. 271.
Stuebner, Gustavus L., Flushing, N. Y. Bottom-dumping bucket. No. 1,010,325; Nov. 28; Sp. p. 5862; Gaz. vol. 172; p. 1044.
Stuebner, Henry, Philadelphia, Pa. Antifriction-bearing. No. 986,871; Mar. 14; Sp. p. 2369; Gaz. vol. 164; p. 410.
Stuehck, Rudolf, Roosevelt, Wash. Pump. No. 995,042; June 13; Sp. p. 2081; Gaz. vol. 167; p. 363.
Stugner, John. (See Kerchner, John, assignor.)
Stühler, Martin, Cologne, Germany. Carbonating apparatus. No. 998,428; July 18; Sp. p. 3988; Gaz. vol. 168; p. 707.
Stuhlmacher, Richard, Reichenbrand, near Chemnitz, assignor to Wanderer-Werke vormals Winklhofer und Jaenicke Aktien-Gesellschaft, Schönau, near Chemnitz, Germany. Driving-gear mechanism. No. 986,241; Mar. 7; Sp. p. 1015; Gaz. vol. 164; p. 163.
Stull, Emmett W., Norwood, Ohio, assignor to Allis-Chalmers Company. Motor-control system. No. 982,897; Jan. 31; Sp. p. 5973; Gaz. vol. 162; p. 1048.
Stull, Emmett W., assignor to Allis-Chalmers Company, Milwaukee, Wis. Motor-control system. No. 983,519; Feb. 7; Sp. p. 557; Gaz. vol. 163; p. 89.
Stull, Emmett W., Milwaukee, Wis., assignor to Allis-Chalmers Company. System of electrical distribution. No. 996,894; July 4; Sp. p. 609; Gaz. vol. 168; p. 100.
Stull, Emmett W., Milwaukee, Wis., assignor to Allis-Chalmers Company. Controller. No. 1,012,027; Dec. 19; Sp. p. 3676; Gaz. vol. 173; p. 640.
Stull, Emmett W., and G. B. Schley, Milwaukee, Wis., assignors to Allis-Chalmers Company. Multiple-voltage controller. No. 992,289; May 16; Sp. p. 3130; Gaz. vol. 166; p. 570.
Stults, Henry, Oronogo, Mo. Garden-tool. No. 1,008,873; Nov. 14; Sp. p. 2784; Gaz. vol. 172; p. 468.
Stump, Christopher W. (See Stump, Katherine J. and C. W.)
Stump, Ira E., Cleveland, Ohio. Valve and horn. No. 990,923; May 2; Sp. p. 207; Gaz. vol. 166; p. 36.
Stump, Ira E., Cleveland, Ohio. Valve and horn. No. 990,924; May 2; Sp. p. 209; Gaz. vol. 166; p. 36.
Stump, Katherine J. and C. W., Washington, D. C. Convertible trunk and bed. No. 992,616; May 16; Sp. p. 3845; Gaz. vol. 166; p. 685.
Stumpf, Johann, Berlin, Germany. Four-cylinder locomotive-engine. No. 980,572; Jan. 3; Sp. p. 865; Gaz. vol. 162; p. 138.
Stumpf, Johann, Berlin, Germany. Steam-engine. (Reissue.) No. 13,191; Jan. 3; Sp. p. 1567; Gaz. vol. 162; p. 248.
Stumpf, Johann, Berlin, Germany. Steam-engine with piston-controlled exhaust-ports. No. 982,395; Jan. 24; Sp. p. 4901; Gaz. vol. 162; p. 849.
Stumpf, Johann, Berlin, Germany. Condensing-engine. No. 993,280; May 23; Sp. p. 5236; Gaz. vol. 166; p. 939.
Stumpf, Johann, Berlin, Germany. Steam-engine. No. 994,484; June 6; Sp. p. 779; Gaz. vol. 167; p. 133.
Stumpf, Johann, Berlin, Germany. Valve. No. 1,004,494; Sept. 26; Sp. p. 5064; Gaz. vol. 170; p. 891.
Sturdevant, Berton E. (See Parks and Sturdevant.)
Sturdevant, Charles R., Worcester, Mass., assignor to The American Steel & Wire Company, Hoboken, N. J. Apparatus for brazing or similar work. No. 1,000,456; Aug. 15; Sp. p. 2651; Gaz. vol. 169; p. 492.
Sturdevant, Charles R., Worcester, Mass., assignor to The American Steel & Wire Company, Hoboken, N. J. Clamp for brazing or similar work. No. 1,002,941; Sept. 12; Sp. p. 1711; Gaz. vol. 170; p. 296.
Sturdevant, Harvey C., assignor to The Sturdevant Machine Co., Inc., Jamestown, N. Y. Double traverse for textile-machines. No. 1,011,137; Dec. 5; Sp. p. 1618; Gaz. vol. 173; p. 256.
Sturdevant Machine Co., The. (See Sturdevant, Harvey C., assignor.)
Sturgeon, Harold M., Erie, Pa. Pneumatic carpet-cleaner. No. 996,810; July 4; Sp. p. 427; Gaz. vol. 168; p. 71.
Sturgeon, John C. (See Williams and Sturgeon.)
Sturgeon, William N., and H. R. Shanley, Galesburg, Ill. Electric cut-off. No. 983,178; Jan. 31; Sp. p. 6555; Gaz. vol. 162; p. 1140.
Sturges, Clarence B. (See Sanderson and Sturges.)
Sturges, Lee, Chicago, Ill. Storage-receptacle for milk or other liquids. No. 998,652; July 25; Sp. p. 4468; Gaz. vol. 168; p. 816.
Sturgis, Charles M., Birmingham, Ala. Weighing-scale. No. 993,906; May 30; Sp. p. 6586; Gaz. vol. 166; p. 1187.
Sturgis, Herbert M., assignor of one-half to F. E. Wear, Kansas City, Mo. Loose-leaf device. No. 1,011,391; Dec. 12; Sp. p. 2231; Gaz. vol. 173; p. 380.
Sturgis Steel Go-Cart Company. (See Spofford, Christopher S., assignor.)
Sturm, Andrew F., Nehawka, Nebr. Power-transmission device. No. 994,616; June 6; Sp. p. 1067; Gaz. vol. 167; p. 178.
Stürmann, Carl, and A. Moll, Dusseldorf, Germany. Sliding window. No. 1,002,777; Sept. 5; Sp. p. 1325; Gaz. vol. 170; p. 200.
Sturrock, John, Chicago, Ill., assignor to International Harvester Company. Journal-bearing. No. 1,007,014; Oct. 24; Sp. p. 5406; Gaz. vol. 171; p. 947.
Sturrock, John, and D. A. Schutt, Chicago, Ill., assignors to International Harvester Company. Lid-retaining mechanism. No. 1,001,477; Aug. 22; Sp. p. 4868; Gaz. vol. 169; p. 878.
Sturtevant, Charles A., Plainfield, N. J., assignor to E. C. Fuller Company, New York, N. Y. Registering mechanism for folding-machines &c. No. 981,137; Jan. 10; Sp. p. 2197; Gaz. vol. 162; p. 362.
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant Mill Company. (See Sturtevant, Thomas L. and T. J., assignors.)
Sturtevant, Orange S., assignor to Adrian Wire Fence Company, Adrian, Mich. Staple-feeding mechanism. No. 987,024; Mar. 14; Sp. p. 2655; Gaz. vol. 164; p. 459.
Sturtevant, Thomas J. (See Sturtevant, Thomas L. and T. J.)
Sturtevant, Thomas J., Wellesley, Mass., assignor to Sturtevant Mill Company. Crushing-mill. No. 988,403; Apr. 4; Sp. p. 247; Gaz. vol. 165; p. 40.
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Wellesley, Mass., assignors to Sturtevant Mill Company. Crushing-machine. No. 995,580; June 20; Sp. p. 3244; Gaz. vol. 167; p. 574.
Sturtevant, Thomas L., Quincy, and T. J. Sturtevant, Wellesley, Mass., assignors to Sturtevant Mill Company. Crushing-mill. No. 1,000,457; Aug. 15; Sp. p. 2654; Gaz. vol. 169; p. 493.
Stüssy, Henry H., Sioux City, Iowa. Milk purifying and homogenizing machine. No. 988,149; Mar. 28; Sp. p. 5096; Gaz. vol. 164; p. 904.
Stüting, Heinrich, Witten, Germany. Roll-train for rolling out hollow billets or tubes. No. 1,009,937; Nov. 28; Sp. p. 5061; Gaz. vol. 172; p. 913.
Stutz, Charles C., Norwood, Ohio. Manufacture of glass articles. No. 1,007,156; Oct. 31; Sp. p. 5743; Gaz. vol. 171; p. 1052.
Stutz, Charles C., Norwood, Ohio. Manufacture of glass articles. No. 1,007,252; Oct. 31; Sp. p. 5955; Gaz. vol. 171; p. 1087.
Stutz, Charles C., Plainfield, N. J., assignor to American Cement Tile Manufacturing Company, Wampum, Pa. Roofing-tile with compound light-pane. No. 989,440; Apr. 11; Sp. p. 2430; Gaz. vol. 165; p. 411.
Stutz, Charles C., Plainfield, N. J., assignor to American Cement Tile Manufacturing Company, Wampum, Pa. Tile. No. 1,003,820; Sept. 19; Sp. p. 3546; Gaz. vol. 170; p. 631.
Stutzman, Frank, Williamsport, Pa. Cutter-head. No. 1,009,352; Nov. 21; Sp. p. 3858; Gaz. vol. 172; p. 671.
Stverak, Joseph, St. Louis, Mo. Car-seat. No. 984,783; Feb. 21; Sp. p. 3335; Gaz. vol. 163; p. 588.
Styles, John S., Asheville, N. C. Machine for making pinless clothes-lines. No. 999,131; July 25; Sp. p. 5529; Gaz. vol. 168; p. 983.
Styles, John S., Asheville, N. C. Pinless clothes-line. No. 1,009,700; Nov. 21; Sp. p. 4569; Gaz. vol. 172; p. 787.
Styll, Harry H. (See Carson and Styll.)
Subers, Lawrence A. (See Bayne and Subers.)
Subers, Lawrence A., Cleveland, Ohio. Hose constructed of laminated cohesive interwound members with variably-expansible zones. No. 1,010,088; Nov. 28; Sp. p. 5394; Gaz. vol. 172; p. 966.
Subers, Lawrence A., Cleveland, Ohio. Fire-hose and analogous tubing constructed of laminated cohesive interwound members having varying limits of elasticity. No. 1,011,090; Dec. 5; Sp. p. 1517; Gaz. vol. 173; p. 240.

Alphabetical list of patentees—Continued.

Subert, Max, New York, N. Y. Egg-receptacle. No. 1,009,451; Nov. 21; Sp. p. 4099; Gaz. vol. 172; p. 707.
Sublett, Alvin H. (See Huffman, Howard H., assignor.)
Submarine Signal Company. (See Gray, Elisha, assignor.)
Submarine Signal Company. (See Mundy, Gale, and Dewing, assignors.)
Submarine Signal Company. (See Wood and Marden, assignors.)
Such, Benjamin J., Perth Amboy, N. J. Tobacco-pipe. No. 1,001,785; Aug. 29; Sp. p. 5524; Gaz. vol. 169; p. 1014.
Such, George J., assignor of one-fourth to R. F. Grady, Chicago, Ill. Offset mechanism for printing-presses. No. 1,006,313; Oct. 17; Sp. p. 3854; Gaz. vol. 171; p. 674.
Suchy, Robert. (See Hoffmann and Suchy.)
Suck, Charles M., Clarksburg, assignor of one-half to J. W. Worley, Salem, W. Va. Frog-trap. No. 998,429; July 18; Sp. p. 3988; Gaz. vol. 168; p. 707.
Sucker, Bernhard, Weichau, Germany. Changeable exhibitor. No. 1,004,931; Oct. 3; Sp. p. 832; Gaz. vol. 171; p. 135.
Suddarth, Johnson A., St. Joseph, Mo. Resilient wheel. No. 1,011,091; Dec. 5; Sp. p. 1523; Gaz. vol. 173; p. 240.
Suddick, Louise F., Dallas, Tex. Rain-skirt. No. 999,132; July 25; Sp. p. 5531; Gaz. vol. 168; p. 985.
Suderov, Abraham, New York, N. Y. Jewel-setting. No. 1,007,253; Oct. 31; Sp. p. 5959; Gaz. vol. 171; p. 1087.
Sudlow, William E., Washington, and H. J. White, Augusta, Ga. Smoke-consuming furnace. No. 984,979; Feb. 21; Sp. p. 3692; Gaz. vol. 163; p. 652.
Suelzen, Herman J., Chicago, Ill. Indicating device for vehicles. No. 997,161; July 4; Sp. p. 1191; Gaz. vol. 168; p. 193.
Sugarman, Solomon, Toledo, Ohio. Folding box. No. 1,009,804; Nov. 28; Sp. p. 4805; Gaz. vol. 172; p. 870.
Suggs, Theophilus W., assignor of one-half to R. E. Jones, Arba, N. C. Automatic vending-machine for postage-stamps. No. 990,020; Apr. 18; Sp. p. 3703; Gaz. vol. 165; p. 642.
Suhling, Paul H., Chicago, Ill. Mechanical picture. No. 1,012,747; Dec. 26; Sp. p. 5199; Gaz. vol. 173; p. 931.
Suhr, Herman G., New York, assignor of one-half to S. A. Sancier, Baldwin, N. Y. Flagpole attachment. No. 982,645; Jan. 24; Sp. p. 5414; Gaz. vol. 162; p. 934.
Suits, Bert C., assignor of one-half to J. A. Kreglo and R. M. Cotton, Indianapolis, Ind. Combined guard and screen for windows. No. 999,682; Aug. 1; Sp. p. 955; Gaz. vol. 169; p. 167.
Suits, James E., and R. B. Armstrong, Douglas, Ariz. Oil-well control. No. 989,441; Apr. 11; Sp. p. 2432; Gaz. vol. 165; p. 411.
Suits, Seymour, Newark, N. J., assignor of one-half to P. C. Brashear, New York, N. Y. Illuminating device for vehicles. No. 994,695; June 6; Sp. p. 1264; Gaz. vol. 167; p. 205.
Sukeforth, Clara S., Brooklyn, N. Y. Key-fastener. No. 994,285; June 6; Sp. p. 378; Gaz. vol. 167; p. 64.
Sulikx, Theodore, Duquesne, Pa. Broom-holder. No. 987,505; Mar. 21; Sp. p. 3677; Gaz. vol. 164; p. 656.
Sullivan, Charles A., Windsor, Ontario, Canada, and J. W. Potter, assignors of one-fourth to E. J. Woodison and one-fourth to C. L. Ackerson, Detroit, Mich. Internal-combustion engine. No. 1,011,875; Dec. 12; Sp. p. 3307; Gaz. vol. 173; p. 549.
Sullivan, Charles E., Pueblo, Colo., assignor of one-half to C. Bailey, McCook, Nebr. Safety attachment for railway-cars. No. 988,404; Apr. 4; Sp. p. 249; Gaz. vol. 165; p. 40.
Sullivan, Charles F., Judith Gap, Mont. Repair attachment for car-couplings. No. 983,412; Feb. 7; Sp. p. 327; Gaz. vol. 163; p. 55.
Sullivan, Dennis J., Aliquippa, Pa. Elevator safety device. No. 1,003,215; Sept. 12; Sp. p. 2270; Gaz. vol. 170; p. 390.
Sullivan, Eugene C., Corning, N. Y. Material for use in the manufacture of glass. No. 990,606; Apr. 25; Sp. p. 5029; Gaz. vol. 165; p. 876.
Sullivan, Eugene C., Corning, N. Y. Manufacture of glass. No. 990,607; Apr. 25; Sp. p. 5031; Gaz. vol. 165; p. 876.
Sullivan, Flurrence L., Gordon, Pa. Wheel-guard. No. 1,001,902; Aug. 29; Sp. p. 5790; Gaz. vol. 169; p. 1055.
Sullivan, James E., Pawtucket, R. I. Brooch. No. 1,003,216; Sept. 12; Sp. p. 2279; Gaz. vol. 170; p. 390.
Sullivan, James F. (See Palmer, Joseph, and Sullivan.)
Sullivan, James J., Elmhurst, N. Y. Wrapping-machine. No. 1,001,179; Aug. 22; Sp. p. 4256; Gaz. vol. 169; p. 779.
Sullivan, James J., Elmhurst, N. Y. Feeding mechanism. No. 1,001,230; Aug. 22; Sp. p. 4367; Gaz. vol. 169; p. 795.
Sullivan, James J., Long Island City, N. Y. Feeding mechanism. No. 1,001,231; Aug. 22; Sp. p. 4376; Gaz. vol. 169; p. 796.
Sullivan, Jeremiah J., New Decatur, Ala. Car-truck. No. 986,242; Mar. 7; Sp. p. 1016; Gaz. vol. 164; p. 163.
Sullivan, John G., Montreal, Quebec, Canada. Railway-frog. No. 981,495; Jan. 10; Sp. p. 2992; Gaz. vol. 162; p. 487.
Sullivan, John H., Grand Rapids, Mich. Wire-holding means for wrenches. No. 986,954; Mar. 14; Sp. p. 2532; Gaz. vol. 164; p. 438.
Sullivan Machinery Company. (See Ball, Albert, assignor.)
Sullivan Machinery Company. (See Ball and Mercer, assignors.)
Sullivan Machinery Company. (See Champagne, Albert E., assignor.)
Sullivan Machinery Company. (See Gilman, George H., assignor.)
Sullivan Machinery Company. (See Mercer, Henry H., assignor.)
Sullivan Machinery Company. (See Nelson, Sven T., assignor.)
Sullivan, Michael H., Poughkeepsie, N. Y., assignor to J. L. Murphy, Chelsea, Mass. Compound gas-engine. No. 1,006,416; Oct. 17; Sp. p. 4069; Gaz. vol. 171; p. 709.
Sullivan, Michael H., Poughkeepsie, N. Y., assignor to J. L. Murphy, Chelsea, Mass. Rotary compound explosive-engine. No. 1,006,417; Oct. 17; Sp. p. 4071; Gaz. vol. 171; p. 710.
Sullivan, Thomas F. (See Kelly, Thomas F., assignor.)
Sullivan, William G. (See Adler, Theodor L. A., assignor.)
Sulsona, Joseph D., New York, N. Y., assignor to Taximeter Control Company. Taximeter control. No. 1,002,778; Sept. 5; Sp. p. 1327; Gaz. vol. 170; p. 200.
Sultz, Fannie B., Hartland, Kans. Mail-box. No. 990,925; May 2; Sp. p. 210; Gaz. vol. 166; p. 37.
Sulzberger, Nathan, New York, N. Y. Beef and vegetable extract. No. 994,885; June 13; Sp. p. 1758; Gaz. vol. 167; p. 311.
Sulzberger, Nathan, Berlin, and L. Spiegel, Charlottenburg, Germany. Esters of salicylic-acid derivatives and making the same. No. 987,771; Mar. 28; Sp. p. 4256; Gaz. vol. 164; p. 776.
Sulzer, Georg, Harrison, N. J., assignor to Henry R. Worthington, New York, N. Y. Centrifugal, turbine, and similar pump. No. 990,507; Apr. 25; Sp. p. 4832; Gaz. vol. 165; p. 843.
Sulzer, Jakob, Winterthur, Switzerland. Combustion-engine. No. 983,322; Feb. 7; Sp. p. 139; Gaz. vol. 163; p. 25.
Sulzer, Leo E., Chillicothe, Ohio. Car-fender. No. 984,616; Feb. 21; Sp. p. 2972; Gaz. vol. 163; p. 528.
Sulzer, Leo E., Chillicothe, Ohio. Car-fender. No. 984,865; Feb. 21; Sp. p. 3482; Gaz. vol. 163; p. 615.
Suman, Walter A., and G. W. Reichard, assignors of one-third to W. F. Milligan, Portland, Ind. Aeroplane flying-machine. No. 981,714; Jan. 17; Sp. p. 3436; Gaz. vol. 162; p. 582.
Sumerlin, L. C. (See Allison, Robert J., assignor.)
Summa, Victor M., Webster Groves, Mo. Car-truck side frame. No. 1,002,335; Sept. 5; Sp. p. 353; Gaz. vol. 170; p. 50.
Summa, Victor M., assignor to American Car and Foundry Company, St. Louis, Mo. Underframe for railway-cars. No. 1,002,469; Sept. 5; Sp. p. 655; Gaz. vol. 170; p. 94.
Summa, Victor M., St. Louis, Mo., assignor to Wolff Truck Frame Company, Chicago, Ill. Truck-frame. No. 1,009,112; Nov. 21; Sp. p. 3307; Gaz. vol. 172; p. 585.
Summerfield, Oliver. (See McCullough, William, assignor.)
Summeril, Frank H., Denver, Colo., assignor to The Universal Motor Company, Newcastle, Ind. Apparatus for transmitting power. No. 990,171; Apr. 18; Sp. p. 4011; Gaz. vol. 165; p. 691.
Summers, Amos W., and J. V. Thompson, Circleville, Ohio. Auto mail-hook. No. 1,002,779; Sept. 5; Sp. p. 1329; Gaz. vol. 170; p. 200.
Summers, Bertrand S., assignor to The Summers Fiber Company, Chicago, Ill. Fiber-cleaning machine. No. 988,150; Mar. 28; Sp. p. 5099; Gaz. vol. 164; p. 904.
Summers, Bertrand S., assignor to The Summers Fiber Company, Chicago, Ill. Preparing fiber for commercial purposes. No. 988,151; Mar. 28; Sp. p. 5103; Gaz. vol. 164; p. 905.
Summers, Bertrand S., Port Huron, Mich., assignor, by mesne assignments, to International Flax Twine Company. Making flax twine or yarn. No. 1,001,704; Aug. 29; Sp. p. 5354; Gaz. vol. 169; p. 987.
Summers Fiber Company, The. (See Summers, Bertrand S., assignor.)
Summers, Leland L., assignor to Continuous Process Coke Company, Chicago, Ill. Coking-oven. No. 992,078; May 9; Sp. p. 2620; Gaz. vol. 166; p. 466.
Summers, Leland L., assignor to Continuous Process Coke Company, Chicago, Ill. Coking-furnace. No. 992,079; May 9; Sp. p. 2623; Gaz. vol. 166; p. 467.
Summers, Leland L., assignor to Continuous Process Coke Company, Chicago, Ill. Coking-furnace. (Reissue.) No. 13,274; July 18; Sp. p. 4329; Gaz. vol. 168; p. 765.
Summers, Leland L., assignor to Continuous Process Coke Company, Chicago, Ill. Coking-furnace and conveyer therefor. No. 1,003,544; Sept. 19; Sp. p. 2946; Gaz. vol. 170; p. 538.

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Summerscales and Sons (1898) Limited, W. (See Longsdon and Bottomley, assignors.)
Summey, David L., assignor to Chase Rolling Mill Co., Waterbury, Conn. Machine for and method of scalping flat metal bars. No. 1,011,265; Dec. 12; Sp. p. 1955; Gaz. vol. 173; p. 337.
Summey, David L., assignor to Chase Rolling Mill Co., Waterbury, Conn. Method of and machine for extruding metal. No. 1,011,522; Dec. 12; Sp. p. 2518; Gaz. vol. 173; p. 429.
Summey, David L., assignor to Chase Rolling Mill Co., Waterbury, Conn. Method of and machine for extruding metal. No. 1,011,876; Dec. 12; Sp. p. 3309; Gaz. vol. 173; p. 550.
Sumner, Fred H., San Francisco, Cal. Shear-guide. No. 1,005,082; Oct. 3; Sp. p. 1093; Gaz. vol. 171; p. 184.
Sumner Iron Works. (See Lueth and Skeith, assignors.)
Sumner, William, Liverpool, England. Cash-register. No. 996,161; June 27; Sp. p. 4483; Gaz. vol. 167; p. 811.
Sumpter, Ernest W. (See Carence and Sumpter.)
Sumter Machinery Company. (See Siddall, Thomas H., assignor.)
Sumter Telephone Mfg. Co., The. (See Mason, Charles T., assignor.)
Sumwalt, Thomas J. (See Blume, Charles A., assignor.)
Sun Power Company. (See Bradley, Charles S., assignor.)
Sun Vapor Street Light Company, The. (See Streiber, Henry E., assignor.)
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Sund, Martin L., Warland, Mont. Spur for driving-reins. No. 988,152; Mar. 28; Sp. p. 5106; Gaz. vol. 164; p. 905.
Sundberg, Per T., assignor to Aktiebolaget Express Separator Emil G. Lind & Co., Stockholm, Sweden. Centrifugal separator for milk and other fluids. No. 994,485; June 6; Sp. p. 780; Gaz. vol. 167; p. 133.
Sunde, Adinius R., Antonito, Colo. Stick-pin. No. 996,298; June 27; Sp. p. 4829; Gaz. vol. 167; p. 856.
Sundelius, Severus. (See Davidson and Sundelius.)
Sundh, August. (See Lindquist and Sundh.)
Sundh, August. (See Pearson and Sundh.)
Sundh, August, Yonkers, N. Y. Hydraulic engine. No. 980,449; Jan. 3; Sp. p. 575; Gaz. vol. 162; p. 96.
Sundh, August, Yonkers, N. Y. Magnetically-controlled power-transmission mechanism. No. 983,949; Feb. 14; Sp. p. 1510; Gaz. vol. 163; p. 266.
Sundh, August, Yonkers, N. Y. Mechanically-controlled power-transmitting mechanism. No. 983,950; Feb. 14; Sp. p. 1517; Gaz. vol. 163; p. 267.
Sundh, August, Yonkers, N. Y. Hydraulic variable gear for power transmission. No. 986,780; Mar. 14; Sp. p. 2163; Gaz. vol. 164; p. 377.
Sundh, August, Yonkers, N. Y. Motor control. No. 1,011,268; Dec. 12; Sp. p. 1965; Gaz. vol. 173; p. 338.
Sundh, August, Yonkers, N. Y. Electrohydraulic speed-governing device for power transmission. No. 1,011,269; Dec. 12; Sp. p. 1971; Gaz. vol. 173; p. 338.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Combined brake and tensioning device for traction-elevators. No. 981,897; Jan. 17; Sp. p. 3842; Gaz. vol. 162; p. 648.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Inductive-motor control. No. 982,695; Jan. 24; Sp. p. 5515; Gaz. vol. 162; p. 951.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current elevator system. No. 986,243; Mar. 7; Sp. p. 1018; Gaz. vol. 164; p. 164.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Power-transmitting device. No. 986,414; Mar. 7; Sp. p. 1383; Gaz. vol. 164; p. 223.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Uniform-movement device. No. 994,212; June 6; Sp. p. 234; Gaz. vol. 167; p. 40.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Current-controlling apparatus. No. 994,345; June 6; Sp. p. 497; Gaz. vol. 167; p. 86.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Floor-controller. No. 998,653; July 25; Sp. p. 4469; Gaz. vol. 168; p. 816.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Induction-motor-controlling apparatus. No. 1,002,336; Sept. 5; Sp. p. 355; Gaz. vol. 170; p. 50.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Variable-speed motor-controlling apparatus. No. 1,005,355; Oct. 10; Sp. p. 1716; Gaz. vol. 171; p. 306.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Braking apparatus. No. 1,008,189; Nov. 7; Sp. p. 1156; Gaz. vol. 172; p. 190.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Ash-hoist construction. No. 1,011,266; Dec. 12; Sp. p. 1958; Gaz. vol. 173; p. 337.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Motor control. No. 1,011,267; Dec. 12; Sp. p. 1961; Gaz. vol. 173; p. 338.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Compound brake. No. 1,011,661; Dec. 12; Sp. p. 2870; Gaz. vol. 173; p. 479.
Sundh, August, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Switchboard construction for alternating-current controllers. No. 1,011,662; Dec. 12; Sp. p. 2872; Gaz. vol. 173; p. 480.
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Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Power mechanism. No. 1,011,664; Dec. 12; Sp. p. 2878; Gaz. vol. 173; p. 481.
Sundh, August, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Alternating-current-motor-controlling apparatus. No. 1,012,477; Dec. 19; Sp. p. 4611; Gaz. vol. 173; p. 791.
Sundh, August, Hastings, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Power-transmitting mechanism. No. 1,010,976; Dec. 5; Sp. p. 1270; Gaz. vol. 173; p. 201.
Sundstrand, Gustaf D., Rockford, Ill. Milling-machine. No. 1,008,753; Nov. 14; Sp. p. 2541; Gaz. vol. 172; p. 428.
Sundstrom, Karl J., Detroit, Mich. Gas-producer. No. 989,661; Apr. 18; Sp. p. 2939; Gaz. vol. 165; p. 518.
Sundvall, Edwin, Stockholm, Wis. Operating device for force-feed lubricators. No. 986,872; Mar. 14; Sp. p. 2371; Gaz. vol. 164; p. 410.
Sundvall, Edwin A., Stockholm, Wis. Tire. No. 1,003,071; Sept. 12; Sp. p. 1950; Gaz. vol. 170; p. 337.
Sunlight Curtain Company. (See Hanlon, Patrick J., assignor.)
Superb Stamp Pad Company. (See Woodruff, Alonzo, assignor.)
Superior Register Company. (See Dorsey, Farnum F., assignor.)
Superior Register Company. (See Staples, Albert F., assignor.)
Suppes, Max M., Elyria, Ohio. Stock-handling and stock-storage yard and equipment. No. 999,904; Aug. 8; Sp. p. 1426; Gaz. vol. 169; p. 271.
Suppes, Max M., Elyria, Ohio. Handling stock. No. 999,905; Aug. 8; Sp. p. 1429; Gaz. vol. 169; p. 272.
Suppes, Max M., Elyria, Ohio. Safety-gate for metal-mixers. No. 1,006,700; Oct. 24; Sp. p. 4708; Gaz. vol. 171; p. 839.
Supplee, Samuel G., East Orange, N. J. Reinforced tooth-crown. No. 986,653; Mar. 14; Sp. p. 1914; Gaz. vol. 164; p. 337.
Supplee, Samuel G., East Orange, N. J. Denture. No. 994,213; June 6; Sp. p. 237; Gaz. vol. 167; p. 40.
Supreme Knitting Bobbin Company. (See Wardwell, Simon W., assignor.)
Surbaugh, John S., Vincennes, Ind. Drilling-machine. No. 989,204; Apr. 11; Sp. p. 1909; Gaz. vol. 165; p. 331.
Sure Number Lamp Company. (See Robinson, Frederick, assignor.)
Suren, Nathan H., Needham, Mass., assignor to The Gamewell Fire-Alarm Telegraph Company, New York, N. Y. Fire-alarm telegraph apparatus. No. 989,516; Apr. 11; Sp. p. 2579; Gaz. vol. 165; p. 437.
Sury, Joseph, Wyneghem, and E. Bastyns, Antwerp, assignors to Société Anonyme "La Photographie des Couleurs," Antwerp, Belgium. Treating photographic paper. No. 1,010,200; Nov. 28; Sp. p. 5603; Gaz. vol. 172; p. 1003.
Susol, Emeric, assignor of one-fifth to M. Weleski, Arnold, Pa. Non-refillable bottle. No. 1,004,495; Sept. 26; Sp. p. 5065; Gaz. vol. 170; p. 891.
Suspension Steel Concrete Company. (See Graham, George M., assignor.)
Susquehanna Silk Mills. (See Rutler, Adolph, assignor.)
Süssmann, Heinrich, assignor to Deutsche Gasglühlicht Aktiengesellschaft (Auergesellschaft), Berlin, Germany. Gas-burner. No. 1,006,023; Oct. 17; Sp. p. 3185; Gaz. vol. 171; p. 571.
Suster, Martin, East Pittsburg, Pa. Ratchet tool-handle. No. 1,004,496; Sept. 26; Sp. p. 5066; Gaz. vol. 170; p. 892.
Sutch, John, and W. M. Clark, Somerset, Colo. Coal-mining machine. No. 998,654; July 25; Sp. p. 4476; Gaz. vol. 168; p. 817.
Sutemeier, Arthur, Avalon, Cal. Animal-trap. No. 1,006,701; Oct. 24; Sp. p. 4710; Gaz. vol. 171; p. 839.
Suter, Werner. (See Pfaff and Suter.)
Sutherland, Emil, assignor to A. E. Yerkes, Los Angeles, Cal. Spraying device. No. 1,004,709; Oct. 3; Sp. p. 360; Gaz. vol. 171; p. 59.
Sutherland, Fred E., and J. A. Brown, assignors to The Radial Power Hammer Company, Los Angeles, Cal. Disk crank. No. 982,545; Jan. 24; Sp. p. 5227; Gaz. vol. 162; p. 901.
Sutherland, Fred E., and J. A. Brown, assignors to The Radial Power Hammer Company, Los Angeles, Cal. Clutch mechanism. No. 986,324; Mar. 7; Sp. p. 1180; Gaz. vol. 164; p. 191.

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Sutro Bros. Braid Co. (See Plumb, Frederic W., assignor.)
Sutro, Harry H., New York, N. Y. Drainage system. No. 994,617; June 6; Sp. p. 1068; Gaz. vol. 167; p. 178.
Sutter, Charles, Elizabeth, and L. L. Willfong, Clairton, Pa. Hydraulic valve. No. 994,544; June 6; Sp. p. 923; Gaz. vol. 167; p. 152.
Sutter, Josiah H., Lake Arthur, N. Mex. Power-pump. No. 995,581; June 20; Sp. p. 3248; Gaz. vol. 167; p. 574.
Sutton, Frank W., North English, Iowa. Draft-equalizer. No. 994,618; June 6; Sp. p. 1070; Gaz. vol. 167; p. 178.
Sutton, Fred A., Utica, assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Binding attachment for sewing-machines. No. 1,011,877; Dec. 12; Sp. p. 3312; Gaz. vol. 173; p. 550.
Sutton, George C., Priest River, Idaho. Current-motor. No. 1,012,291; Dec. 19; Sp. p. 4258; Gaz. vol. 173; p. 731.
Sutton, Louis O., Wilmington, Del. Game apparatus. No. 994,963; June 13; Sp. p. 1916; Gaz. vol. 167; p. 337.
Sutton, William S., Madison, Wis., assignor to Allis-Chalmers Company. Commutator for electric machines. No. 996,895; July 4; Sp. p. 611; Gaz. vol. 168; p. 100.
Svagell, Franck, and W. H. Padfield, Verona, Pa. Carbureter for gas and gasolene engines. No. 986,605; Mar. 14; Sp. p. 1803; Gaz. vol. 164; p. 320.
Svejnar, Anton, Chicago, Ill. Vaginal appliance. No. 1,003,821; Sept. 19; Sp. p. 3547; Gaz. vol. 170; p. 631.
Svenson, John, Malden, Mass. Arch-support. No. 989,823; Apr. 18; Sp. p. 3295; Gaz. vol. 165; p. 575.
Svenson, Sven, La Crosse, Wis. Box-fastener. No. 994,486; June 6; Sp. p. 781; Gaz. vol. 167; p. 133.
Svenson, Sven and T., La Crosse, Wis. Metallic hoop or band. No. 983,093; Jan. 31; Sp. p. 6409; Gaz. vol. 162; p. 1114.
Svenson, Tobias. (See Svenson, Sven and T.)
Svensson, Claes A., Buffalo, N. Y. Wire guide and cutter. No. 996,896; July 4; Sp. p. 614; Gaz. vol. 168; p. 101.
Svoboda, Anton, Rochlitz, near Reichenberg, Austria-Hungary. Hand printing-machine. No. 1,006,987; Oct. 24; Sp. p. 5351; Gaz. vol. 171; p. 939.
Svoboda, Ludvik, South Omaha, Nebr. Spike. No. 988,744; Apr. 4; Sp. p. 978; Gaz. vol. 165; p. 155.
Svojse, George M., Chicago, Ill. Clothes-drier. No. 992,923; May 23; Sp. p. 4490; Gaz. vol. 166; p. 823.
Swabb, George L. (See Fawcett and Swabb.)
Swafford, Edmond O., Clovis, N. Mex. Wood-sawing machine. No. 982,312; Jan. 24; Sp. p. 4738; Gaz. vol. 162; p. 819.
Swafford, Levi W., Vicksburg, Miss. Heat-concentrating ring for gas or vapor stoves or ranges. No. 983,413; Feb. 7; Sp. p. 329; Gaz. vol. 163; p. 56.
Swafford, Levi W., assignor of one-half to B. W. Griffith, Vicksburg, Miss. Buckle for cotton-ties. No. 980,700; Jan. 3; Sp. p. 1130; Gaz. vol. 162; p. 181.
Swafford, Levi W., assignor of one-half to B. W. Griffith, Vicksburg, Miss. Buckle for cotton-ties. No. 980,701; Jan. 3; Sp. p. 1131; Gaz. vol. 162; p. 181.
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Swain, Ernest R., Greensfork, Ind. Switch-operating apparatus. No. 991,387; May 2; Sp. p. 1201; Gaz. vol. 166; p. 200.
Swain, George F., Chicago, Ill. Internal-combustion engine. No. 1,000,128; Aug. 8; Sp. p. 1939; Gaz. vol. 169; p. 349.
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Swainson, Edward, Livingston, Mont. Nail-extractor. No. 990,926; May 2; Sp. p. 212; Gaz. vol. 166; p. 37.
Swalestuen, J. D., *et al.* (See Olson, Edward, assignor.)
Swallow, Joseph G., *et al.* (See McCoy, Walter E., assignor.)
Swallow, Joseph G., and W. E. McCoy, assignors of one-third to F. W. Smith, New York, N. Y. Meter and outlet box. No. 993,123; May 23; Sp. p. 4931; Gaz. vol. 166; p. 892.
Swan, Alfred, Upper Montclair, N. J., assignor to General Electric Company. Soldering-machine. No. 996,374; June 27; Sp. p. 5014; Gaz. vol. 167; p. 883.
Swan, Alfred, Upper Montclair, N. J., assignor to General Electric Company. Lamp-making machine. No. 1,011,523; Dec. 12; Sp. p. 2523; Gaz. vol. 173; p. 429.
Swan, Alfred H. S., assignor to Rochester Stamping Co., Rochester, N. Y. Receptacle. No. 991,388; May 2; Sp. p. 1206; Gaz. vol. 166; p. 200.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Vapor-lamp. No. 1,008,389; Nov. 14; Sp. p. 1700; Gaz. vol. 172; p. 300.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Controlling-valve for vapor-lamps. No. 1,008,390; Nov. 14; Sp. p. 1704; Gaz. vol. 172; p. 300.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Vapor-lamp. No. 1,010,462; Dec. 5; Sp. p. 126; Gaz. vol. 173; p. 23.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Chafing-dish lamp. No. 1,012,748; Dec. 26; Sp. p. 5200; Gaz. vol. 173; p. 931.
Swan, Benjamin, and E. E. Stuart, St. Albans, England. Horn for use on motor-cars and the like. No. 987,772; Mar. 28; Sp. p. 4257; Gaz. vol. 164; p. 776.
Swan, Harry M., Corry, assignor to J. C. Thoms, agent, Erie, Pa. Shears. No. 989,824; Apr. 18; Sp. p. 3296; Gaz. vol. 165; p. 575.
Swan, John C., Marietta, Ohio. Underreamer. No. 997,718; July 11; Sp. p. 2337; Gaz. vol. 168; p. 413.
Swan, Milton G., assignor to Stehman and Swan Manufacturing Company, Lancaster, Pa. Attachment-securing means. No. 1,009,266; Nov. 21; Sp. p. 3668; Gaz. vol. 172; p. 639.
Swan, Peter S., Calcutta, India. Lubricated bearing. No. 996,536; June 27; Sp. p. 5356; Gaz. vol. 167; p. 937.
Swan, William W., Frankfort, S. D. Draft-evener. No. 984,246; Feb. 14; Sp. p. 2164; Gaz. vol. 163; p. 367.
Swanberg, Floyd L., assignor to The D. T. Williams Valve Company, Cincinnati, Ohio. Priming-cup for gasolene-engines. No. 985,223; Feb. 28; Sp. p. 4261; Gaz. vol. 163; p. 772.
Swanberg, Floyd L., assignor to The D. T. Williams Valve Company, Cincinnati, Ohio. Generator-valve for gasolene-engines. No. 994,886; June 13; Sp. p. 1759; Gaz. vol. 167; p. 311.
Swanger, Charles H., St. Joseph, Mo., assignor of one-half to A. F. Barnes, Memphis, Tenn. Bed-jack. No. 992,080; May 9; Sp. p. 2625; Gaz. vol. 166; p. 467.
Swangren, Edwin V., Maywood, Ill., assignor to American Can Company, New York, N. Y. Can-head cutting and forming and flange-curling machine. No. 984,169; Feb. 14; Sp. p. 1978; Gaz. vol. 163; p. 339.
Swangren, Edwin V., Maywood, Ill., assignor to American Can Company, New York, N. Y. Feed mechanism for can-heads and can-bodies. No. 1,002,337; Sept. 5; Sp. p. 361; Gaz. vol. 170; p. 51.
Swann, Gideon W., *et al.*, administrators. (See Burgess, Neilson.)
Swanson, Alfred, Chicago, Ill. Moving stair. No. 988,910; Apr. 4; Sp. p. 1295; Gaz. vol. 165; p. 208.
Swanson, Anton, Chicago, Ill. Motor-cycle. No. 1,006,804; Oct. 24; Sp. p. 4950; Gaz. vol. 171; p. 877.
Swanson, Frank A. (See Wallace and Swanson.)
Swanson, Herman L., Stromsburg, Nebr. Bundle-fastener. No. 1,003,822; Sept. 19; Sp. p. 3549; Gaz. vol. 170; p. 631.
Swanson, Oscar W., New Haven, Conn. Trolley-pole. No. 991,389; May 2; Sp. p. 1206; Gaz. vol. 166; p. 200.
Swanson, Peter N., Kewanee, Ill. Gate. No. 999,906; Aug. 8; Sp. p. 1431; Gaz. vol. 169; p. 272.
Swanson, Sven, Bailey, Mich. Potato-digging machine. No. 988,835; Apr. 4; Sp. p. 1161; Gaz. vol. 165; p. 185.
Swanson, Theodore A. (See Kenne, Carmody, and Swanson.)
Swanson, Victor, *et al.* (See Feldra, Robert, assignor.)
Swanstrom, Martin S., Chicago, Ill. Spring-support for beds. No. 1,005,485; Oct. 10; Sp. p. 1992; Gaz. vol. 171; p. 351.
Swaren, William A., Chicago, assignor, by mesne assignments, to International Voting Machine Company, Elgin, Ill. Voting-machine. No. 1,001,705; Aug. 29; Sp. p. 5355; Gaz. vol. 169; p. 987.
Swart, Robert B., assignor to American Metal Screen and Weatherstrip Company, Detroit, Mich. Window-screen. No. 1,002,781; Sept. 5; Sp. p. 1330; Gaz. vol. 170; p. 201.
Swartley, Elmer D. (See Carpenter, Swartley, and Derstine.)
Swarts, Thomas A., Columbus, Ohio. Carbureter. No. 996,897; July 4; Sp. p. 617; Gaz. vol. 168; p. 101.
Swartwout, Denton K., assignor to The Ohio Blower Company, Cleveland, Ohio. Apparatus for separating particles. No. 985,953; Mar. 7; Sp. p. 418; Gaz. vol. 164; p. 67.
Swartz, Albert, and R. Holland, Huntington, Ind. Safety switch and signal device. No. 1,012,028; Dec. 19; Sp. p. 3679; Gaz. vol. 173; p. 640.
Swartz, John W. (See Belknap and Swartz.)
Swartz, John W., East Liverpool, Ohio. Freight-car. No. 982,024; Jan. 17; Sp. p. 4142; Gaz. vol. 162; p. 691.
Swartz, Warren E., assignor to Milwaukee Casket Company, Milwaukee, Wis. Burial-casket. No. 998,133; July 18; Sp. p. 3333; Gaz. vol. 168; p. 600.
Swartz, William H., York, Pa. Clutch. No. 995,043; June 13; Sp. p. 2083; Gaz. vol. 167; p. 363.
Swartzendruber, Menno S., Dorchester, Nebr. Curb-bit. No. 988,836; Apr. 4; Sp. p. 1162; Gaz. vol. 165; p. 185.
Swartzwelder, Richard C., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Brake mechanism. No. 994,286; June 6; Sp. p. 379; Gaz. vol. 167; p. 65.
Swasey, Benjamin A., assignor of one-half to William G. McDonald, Portland, Me. Window-ventilator. No. 988,745; Apr. 4; Sp. p. 980; Gaz. vol. 165; p. 155.
Swash Motor Washer Company, The. (See Yassenoff, Isidor, assignor.)
Swazey, George A., Oakland, assignor of one-half to A. J. McNaughton, Millinocket, Me. Gun-cleaner. No. 1,004,710; Oct. 3; Sp. p. 363; Gaz. vol. 171; p. 59.

Alphabetical list of patentees—Continued.

Swedlund, David N., and A. L. Lundahl, Chicago, Ill. Adjustable protector for lace curtains. No. 1,012,111; Dec. 19; Sp. p. 3872; Gaz. vol. 173; p. 669.
Sweeney, Benjamin F., Neosho, Mo. Weed-puller. No. 988,405; Apr. 4; Sp. p. 250; Gaz. vol. 165; p. 40.
Sweeney, Edward A. (See Schultz and Sweeney.)
Sweeney, James M., Howell, Fla. Insulator. No. 1,008,087; Nov. 7; Sp. p. 942; Gaz. vol. 172; p. 152.
Sweeney, John J. (See Spencer, Joseph M., assignor.)
Sweeney, John M., Detroit, Mich. Gate. No. 1,009,866; Nov. 28; Sp. p. 4932; Gaz. vol. 172; p. 891.
Sweeney, Mary E., Washington, D. C. Cable or telegraph code. No. 990,021; Apr. 18; Sp. p. 3705; Gaz. vol. 165; p. 642.
Sweeny, Jared S., and W. W. Grindle, Decatur, Ill. Feed-water heater. No. 988,223; Mar. 28; Sp. p. 5237; Gaz. vol. 164; p. 929.
Sweeny, Jared S., and W. W. Grindle, Decatur, Ill. Feed-water heater. No. 988,224; Mar. 28; Sp. p. 5239; Gaz. vol. 164; p. 929.
Sweeny, Jared S., and W. W. Grindle, Decatur, Ill. Feed-water heater. No. 988,225; Mar. 28; Sp. p. 5242; Gaz. vol. 164; p. 930.
Sweet, Alonzo L., assignor of one-half to H. W. Ward, Norwich, Conn. Poultry-feeder. No. 1,002,782; Sept. 5; Sp. p. 1332; Gaz. vol. 170; p. 201.
Sweet, Arthur J. (See Cooper and Sweet.)
Sweet, Burton W., assignor to H. Z. Sands, Cleveland, Ohio. Detachable telephone-support. No. 1,002,783; Sept. 5; Sp. p. 1334; Gaz. vol. 170; p. 202.
Sweet, Charles E., Wilkinsburg, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburg, Pa. Blading and lining for turbines. No. 997,216; July 4; Sp. p. 1302; Gaz. vol. 168; p. 212.
Sweet, Charles E., Wilkinsburg, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburg, Pa. Securing means for turbine-blades. No. 998,862; July 25; Sp. p. 4954; Gaz. vol. 168; p. 891.
Sweet, Charles E., Wilkinsburg, assignor, by mesne assignments, to The Colonial Trust Company, trustee, Pittsburgh, Pa. Blading means for turbines. No. 1,012,749; Dec. 26; Sp. p. 5202; Gaz. vol. 173; p. 932.
Sweet, Eli, Binghamton, N. Y. Dental articulator. No. 989,540; Apr. 11; Sp. p. 2660; Gaz. vol. 165; p. 447.
Sweet, John A., Hartford City, Ind. Method of and apparatus for manufacturing hollow glass bodies. No. 1,007,503; Oct. 31; Sp. p. 6488; Gaz. vol. 171; p. 1174.
Sweet, John E., assignor to The Direct Separator Company, Syracuse, N. Y. Steam-separator. No. 988,406; Apr. 4; Sp. p. 253; Gaz. vol. 165; p. 41.
Sweet, Philip K., Westwood, N. J. Stove-damper. No. 1,001,478; Aug. 22; Sp. p. 4869; Gaz. vol. 169; p. 879.
Sweet, Welcome F., St. Louis, Mo. Marble-shooter. No. 994,887; June 13; Sp. p. 1761; Gaz. vol. 167; p. 311.
Sweet, Welcome F., St. Louis, Mo. Marble-shooter. No. 994,888; June 13; Sp. p. 1762; Gaz. vol. 167; p. 311.
Sweet, Welcome F., St. Louis, Mo. Marble-shooter. No. 1,011,665; Dec. 12; Sp. p. 2882; Gaz. vol. 173; p. 481.
Sweetland, Ernest J., Los Angeles, Cal. Pressure-filter. No. 996,537; June 27; Sp. p. 5358; Gaz. vol. 167; p. 938.
Sweger, Russell L., assignor of one-half to F. O. Cleland, Carlisle, Pa. Door-lock. No. 985,224; Feb. 28; Sp. p. 4262; Gaz. vol. 163; p. 772.
Sweigart, Henry W. (See Sweigart, Mary B., assignor.)
Sweigart, Mary B., assignor of one-half to H. W. Sweigart, Lewiston, Pa. Collar-supporter. No. 1,005,901; Oct. 17; Sp. p. 2913; Gaz. vol. 171; p. 529.
Swem, Lawrence W., West Liberty, Iowa. Mold for castings of precious metal. No. 981,033; Jan. 10; Sp. p. 1971; Gaz. vol. 162; p. 325.
Swem, William A. (See La Shell and Swem.)
Swenarton, Waitstill H., Montclair, N. J. Desiccating the solid content of milk. No. 995,303; June 13; Sp. p. 2588; Gaz. vol. 167; p. 448.
Sweney, Robert C., Marion, Ohio. Signal for railway-cars. No. 988,746; Apr. 4; Sp. p. 981; Gaz. vol. 165; p. 156.
Sweney, William P., San Francisco, Cal. Flange-setting tool. No. 1,011,092; Dec. 5; Sp. p. 1524; Gaz. vol. 173; p. 241.
Swenning, Rebecca T., Los Angeles, Cal. Preparing backgrounds on pile fabric. No. 997,101; July 4; Sp. p. 1068; Gaz. vol. 168; p. 172.
Swenson, Albert, Willmar, Minn. Lock-out party-line telephone system. No. 982,546; Jan. 24; Sp. p. 5228; Gaz. vol. 162; p. 902.
Swenson, Albert, Duluth, Minn. Apparatus for digging holes for posts, &c. No. 995,496; June 20; Sp. p. 3052; Gaz. vol. 167; p. 544.
Swenson, Charles A., assignor of one-half to O. E. Kuehl, Medford, Mass. Propeller. No. 997,587; July 11; Sp. p. 2052; Gaz. vol. 168; p. 366.
Swenson, Edward, Balaton, Minn. Wire-splicing tool. No. 1,004,309; Sept. 26; Sp. p. 4678; Gaz. vol. 170; p. 828.
Swenson, Frank O., and O. E. Hallen, Moline, Ill. Cotton-chopper. No. 995,735; June 20; Sp. p. 3582; Gaz. vol. 167; p. 629.
Swenson, John O., Montclair, N. J. Device for holding plumb-rules. No. 987,187; Mar. 21; Sp. p. 3017; Gaz. vol. 164; p. 547.
Swenson, Josephine M., and T. S. Olsen, New York, N. Y. Attachment for invalid-beds. No. 998,996; July 25; Sp. p. 5267; Gaz. vol. 168; p. 938.
Swenson, Paul, West Minneapolis, Minn. Safety starting-crank for explosive-engines. No. 982,898; Jan. 31; Sp. p. 5978; Gaz. vol. 162; p. 1048.
Swett, Charles E., Providence, R. I. Rendering porous metals dense. No. 986,519; Mar. 14; Sp. p. 1623; Gaz. vol. 164; p. 288.
Swett, Edward C., Beloit, Wis. Liquid-gage for tanks. No. 1,000,208; Aug. 8; Sp. p. 2114; Gaz. vol. 169; p. 376.
Swiderski, Xawery F., Kenosha, Wis. Lock. No. 999,907; Aug. 8; Sp. p. 1434; Gaz. vol. 169; p. 272.
Swift, Edwin M., assignor of one-half to S. L. Cravens, Seattle, Wash. Automatic retainer. No. 1,004,216; Sept. 26; Sp. p. 4503; Gaz. vol. 170; p. 797.
Swift, Francis E., Dayton, Ohio. Ventilating apparatus. No. 983,179; Jan. 31; Sp. p. 6555; Gaz. vol. 162; p. 1140.
Swift, George L., Chicago, Ill. Fine-fuel-feeding apparatus. No. 984,715; Feb. 21; Sp. p. 3187; Gaz. vol. 163; p. 564.
Swift, John. (See Schofield and Swift.)
Swift, Judson R., New York, N. Y. Syringe. No. 1,005,356; Oct. 10; Sp. p. 1721; Gaz. vol. 171; p. 307.
Swift, Samuel S., Woodland, Pa. Key and lock brick. No. 998,811; July 25; Sp. p. 4832; Gaz. vol. 168; p. 873.
Swift, Stanley C., Cuba, N. Y. Stanchion. No. 988,602; Apr. 4; Sp. p. 672; Gaz. vol. 165; p. 108.
Swift, William H., Everett, Mass. Blind-fast. No. 982,396; Jan. 24; Sp. p. 4902; Gaz. vol. 162; p. 849.
Swift, Willis C. (See Mills, Charles, assignor.)
Swift, Willis C., Hinsdale, Ill. Ball-bearing. No. 993,470; May 30; Sp. p. 5666; Gaz. vol. 166; p. 1037.
Swift, Willis C., Hinsdale, Ill. Ball-bearing. No. 993,471; May 30; Sp. p. 5669; Gaz. vol. 166; p. 1037.
Swindell, James H., Atlanta, Ga. Envelop. No. 1,012,112; Dec. 19; Sp. p. 3873; Gaz. vol. 173; p. 669.
Swindle, Houston H., Temple, Tex. Plow-point mount. No. 989,729; Apr. 18; Sp. p. 3072; Gaz. vol. 165; p. 541.
Swineford, George A., assignor to The G. A. Swineford Company, Canton, Ohio. Hay-knife. No. 1,008,088; Nov. 7; Sp. p. 943; Gaz. vol. 172; p. 152.
Swinford, J. P., *et al.* (See Morris, George A., assignor.)
Swing, Alfred J., Cincinnati, Ohio. Apparatus for cutting perforated music-sheets. No. 983,094; Jan. 31; Sp. p. 6410; Gaz. vol. 162; p. 1114.
Swing, Alfred J., assignor of one-half to J. Sofge, Cincinnati, Ohio. Perforating-machine. No. 983,254; Jan. 31; Sp. p. 6730; Gaz. vol. 162; p. 1167.
Swing, Alfred J., assignor to The Auto-Spring Wheel Company, Cincinnati, Ohio. Spring-wheel. No. 1,003,668; Sept. 19; Sp. p. 3224; Gaz. vol. 170; p. 581.
Swingle, Ira, Wendel, Pa. Blasting-plug. No. 993,907; May 30; Sp. p. 6588; Gaz. vol. 166; p. 1187.
Swinglehurst, Harry, Philadelphia, Pa., assignor, by mesne assignments, to Scott & Williams, Incorporated, Camden, N. J. Hosiery-knitting machine. No. 995,304; June 13; Sp. p. 2593; Gaz. vol. 167; p. 449.
Swink, Charles B., Delphos, Ohio. Printing-press. No. 980,850; Jan. 3; Sp. p. 1431; Gaz. vol. 162; p. 230.
Swink, Charles B., assignor to The Swink Printing Press Company, Delphos, Ohio. Impression adjustment for printing-presses. No. 998,863; July 25; Sp. p. 4956; Gaz. vol. 168; p. 891.
Swink Printing Press Company, The. (See Swink, Charles B., assignor.)
Swisher, William C., Bryan, Ohio. Eaves-trough support. No. 984,716; Feb. 21; Sp. p. 3193; Gaz. vol. 163; p. 565.
Swope, Frederick E., Jr. (See Ramsburg, Phillips, and Swope.)
Swope, George B. (See Thomas, Albert H., assignor.)
Sword, Charles D., New York, N. Y. Shock-absorber. No. 1,002,470; Sept. 5; Sp. p. 657; Gaz. vol. 170; p. 95.
Swoveland, William F., assignor of one-half to W. C. Fletcher, Altoona, Pa. Wheel-mounting. No. 1,007,315; Oct. 31; Sp. p. 6079; Gaz. vol. 171; p. 1109.
Swoyer, Alfred E., Paterson, N. J. Attachment for cameras. No. 991,390; May 2; Sp. p. 1208; Gaz. vol. 166; p. 201.
Sydnor, Leslie A., Fort Worth, Tex. Railway-switch. No. 988,673; Apr. 4; Sp. p. 818; Gaz. vol. 165; p. 132.
Sykes, Alexander L., Covington, Ky., assignor to The A. L. Sykes Manufacturing Company, Cincinnati, Ohio. Cooking appliance. No. 1,005,357; Oct. 10; Sp. p. 1722; Gaz. vol. 171; p. 307.
Sykes, William, Jackson, Miss. Grading-machine. No. 1,005,146; Oct. 17; Sp. p. 3467; Gaz. vol. 171; p. 615.
Sykes, William L., Buffalo, N. Y. Railway tie or sleeper. No. 985,470; Feb. 28; Sp. p. 4817; Gaz. vol. 163; p. 856.
Sylvanus Smith & Company. (See Merchant, Percy W., assignor.)
Syme, David M., Newport, R. I. Holder for fly-paper. No. 996,375; June 27; Sp. p. 5019; Gaz. vol. 167; p. 884.
Syme, David M., Newport, R. I. Nipple-retaining device for nursing-bottles. No. 1,001,180; Aug. 22; Sp. p. 4272; Gaz. vol. 169; p. 779.
Syme, David M., Newport, R. I. Corkscrew. No. 1,012,931; Dec. 26; Sp. p. 5659; Gaz. vol. 173; p. 994.

Symington, Thomas H., Baltimore, Md. Friction draft and buffing gear. No. 1,004,497; Sept. 26; Sp. p. 5068; Gaz. vol. 170; p. 892.
Symington, Thomas H., Baltimore, Md. Friction-gear for cars. No. 1,004,498; Sept. 26; Sp. p. 5069; Gaz. vol. 170; p. 892.
Symington, Thomas H., assignor to The T. H. Symington Company, Baltimore, Md. Dust-guard. No. 980,573; Jan. 3; Sp. p. 866; Gaz. vol. 162; p. 139.
Symmonds, Robert, Jr., assignor to T. B. Jeffery, Kenosha, Wis. Carbureter. No. 1,013,082; Dec. 26; Sp. p. 5975; Gaz. vol. 173; p. 1046.
Symonds, Clarence M., San Anselmo, Cal., assignor to American Can Company, New York, N. Y. Nozzle. No. 981,326; Jan. 10; Sp. p. 2635; Gaz. vol. 162; p. 429.
Symonds, Harold, London, England. Washing-machine. No. 981,715; Jan. 17; Sp. p. 3438; Gaz. vol. 162; p. 582.
Symons, Arthur H., Kansas City, Mo. Baling-press. No. 984,717; Feb. 21; Sp. p. 3194; Gaz. vol. 163; p. 565.
Symons, Edgar B. (See Symons, Josiah E. and E. B.)
Symons, Edgar B., Milwaukee, Wis. Dumping-wagon. No. 1,001,706; Aug. 29; Sp. p. 5359; Gaz. vol. 169; p. 988.
Symons, Edgar B., Milwaukee, Wis. Crushing-machine. No. 1,010,977; Dec. 5; Sp. p. 1272; Gaz. vol. 173; p. 202.
Symons, Edgar B., assignor to Smith & Post Co., Milwaukee, Wis. Head-adjusting device for gyratory stone-crushers. No. 995,044; June 13; Sp. p. 2087; Gaz. vol. 167; p. 364.
Symons, Edgar B., assignor to Smith & Post Company, Milwaukee, Wis. Stone-crusher. No. 1,000,049; Aug. 8; Sp. p. 1714; Gaz. vol. 169; p. 320.
Symons, Edgar B., assignor to Smith and Post Company, Milwaukee, Wis. Crushing-machine. No. 1,005,358; Oct. 10; Sp. p. 1723; Gaz. vol. 171; p. 307.
Symons, Johnson V. (See Wolle and Symons.)
Symons, Johnson V., Westmont, Pa. Twyer-sight for blast-furnaces. No. 1,005,359; Oct. 10; Sp. p. 1726; Gaz. vol. 171; p. 308.
Symons, Josiah E., Chicago, Ill. Crushing-machine. No. 982,899; Jan. 31; Sp. p. 5980; Gaz. vol. 162; p. 1049.
Symons, Josiah E., Chicago, Ill., and E. B. Symons, Milwaukee, Wis. Current-motor. No. 1,000,351; Aug. 8; Sp. p. 2406; Gaz. vol. 169; p. 423.
Symons, Walter J., R. J. Boyle, and W. A. Blaind, assignors of one-fourth to H. O. Stewart, Belleville, Ontario, Canada. Film-feeding mechanism for kinetoscopes. No. 987,506; Mar. 21; Sp. p. 3679; Gaz. vol. 164; p. 657.
Symons, William H., San Diego, Cal. Fire-hydrant. No. 991,559; May 9; Sp. p. 1575; Gaz. vol. 166; p. 291.
Synck, Henry, assignor to New Idea Spreader Company, Maria Stein, Ohio. Fertilizer-distributer. No. 1,008,089; Nov. 7; Sp. p. 945; Gaz. vol. 172; p. 152.
Syracuse Faucet & Valve Company, The. (See Woodworth, John B., assignor.)
Syracuse Industrial Gas Company. (See Henderson, Nelson H., assignor.)
Syverson, Ole, Tolley, N. D. Automatic wagon-brake. No. 981,138; Jan. 10; Sp. p. 2201; Gaz. vol. 162; p. 362.
Szabados, Antony, assignor of one-half to S. Thomas, New Michel, Canada. Folding umbrella. No. 1,010,089; Nov. 28; Sp. p. 5396; Gaz. vol. 172; p. 967.
Szarvasy, Emerich. (See Pfeifer and Szarvasy.)
Szekely, Steve, New Brunswick, N. J. Dirigible lamp for automobiles. No. 1,008,090; Nov. 7; Sp. p. 948; Gaz. vol. 172; p. 153.
Szentivanyi, Kalman, assignor of fifteen one-hundredths to R. F. Horvath, Hartford, Conn. Safety elevator device. No. 1,010,090; Nov. 28; Sp. p. 5398; Gaz. vol. 172; p. 967.
Szentivanyi, Kalman, assignor of fifteen one-hundredths to R. F. Horvath, Hartford, Conn. Hat-pin-point protector. No. 1,010,978; Dec. 5; Sp. p. 1274; Gaz. vol. 173; p. 202.
Szilard, Béla, assignor to B. Szilard and H. Bergerat, Paris, France. Separating mercury from poor ores by electrolysis. No. 980,364; Jan. 3; Sp. p. 374; Gaz. vol. 162; p. 66.
Szluka, Paul, Unionville, Ohio. Lock. No. 1,012,292; Dec. 19; Sp. p. 4259; Gaz. vol. 173; p. 731.
Szubert, Stanislaw, Pankow, near Berlin, Germany. Electric-arc lamp. No. 998,212; July 18; Sp. p. 3485; Gaz. vol. 168; p. 628.
T. Martin & Brother Manufacturing Company. (See Sargent, Henry D., assignor.)
T. Taylor Limited. (See Dawson, Henry, assignor.)
T. B. Laycock Manufacturing Company. (See Laycock, Thomas B., assignor.)
T. C. Entwistle Company. (See Slipp, George F., assignor.)
T. C. Prouty Company. (See Dice, Alvin, assignor.)
T. H. Symington Company, The. (See Symington, Thomas H., assignor.)
T. L. Smith Co., The. (See Brackenbury, Edward W., assignor.)
T. L. Smith Co., The. (See Smith and Meyer, assignors.)
T. L. Smith Company, The. (See Smith, Thomas L., assignor.)
Taaffe, Peter J., Brooklyn, N. Y. Curtain-holder. No. 981,139; Jan. 10; Sp. p. 2203; Gaz. vol. 162; p. 363.
Tabard, Georges. (See Collon and Tabard.)
Taber, William V., Not, Mo. Flue-cleaner. No. 1,003,545; Sept. 19; Sp. p. 2951; Gaz. vol. 170; p. 538.
Tablas, Michael H. (See Abitbol and Tablas.)
Tabor, Clinton D., New Dorp, N. Y., assignor to Tabor Sash Company, Newark, N. J. Hinge. No. 983,323; Feb. 7; Sp. p. 141; Gaz. vol. 163; p. 25.
Tabor, Clinton D., New Dorp, N. Y., assignor to Tabor Sash Company, Newark, N. J. Combined sash lock and opener. No. 987,330; Mar. 21; Sp. p. 3324; Gaz. vol. 164; p. 597.
Tabor, Clinton D., New Dorp, N. Y., assignor to Tabor Sash Company, Newark, N. J. Elevating pivot-fixture for windows. No. 1,001,322; Aug. 22; Sp. p. 4576; Gaz. vol. 169; p. 828.
Tabor, Clinton D., New Dorp, N. Y., assignor to Tabor Sash Fixture Company, Newark, N. J. Elevating pivot-fixture. No. 1,010,979; Dec. 5; Sp. p. 1275; Gaz. vol. 173; p. 202.
Tabor, Levi L., Milwaukee, Wis. Glove and mitten. No. 1,004,711; Oct. 3; Sp. p. 364; Gaz. vol. 171; p. 59.
Tabor, Levi L., Milwaukee, Wis. Glove and mitten. No. 1,006,510; Oct. 24; Sp. p. 4308; Gaz. vol. 171; p. 772.
Tabor Manufacturing Company, The. (See Hathaway, Horace K., assignor.)
Tabor Sash Company. (See Tabor, Clinton D., assignor.)
Tabulating Machine Company, The. (See Hollerith, Herman, assignor.)
Tacey, John P., Detroit, Mich. Medical syringe. No. 1,004,103; Sept. 26; Sp. p. 4256; Gaz. vol. 170; p. 758.
Tackabury, William W., *et al.* (See Shank, Augustus W., assignor.)
Tackett, James R., Olive Hill, Ky. Brick-press. No. 997,162; July 4; Sp. p. 1201; Gaz. vol. 168; p. 194.
Taepke, Charles A., assignor to M. O'Brien & Son, Chicago, Ill. Illuminating device. No. 1,000,129; Aug. 8; Sp. p. 1941; Gaz. vol. 169; p. 349.
Taffner, Martin, Waterloo, Iowa. Horse-collar pad. No. 984,247; Feb. 14; Sp. p. 2166; Gaz. vol. 163; p. 367.
Taft, Samuel B. (See Southwick, William S., assignor.)
Taft, Sydney E. (See Gooding and Taft.)
Taggart, Carrie S. (See Francis and Taggart.)
Taggart, Thomas, *et al.* (See Gray, Thomas J., assignor.)
Taggart, William H., Chicago, Ill. Making dental inlay-fillings and the like. No. 983,579; Feb. 7; Sp. p. 707; Gaz. vol. 163; p. 110.
Taggart, William H., Chicago, Ill. Apparatus for making castings. No. 983,580; Feb. 7; Sp. p. 710; Gaz. vol. 163; p. 110.
Taggartt, Frank M. (See Rasmussen and Taggartt.)
Tagliabue, Charles J. (See Roesch, Alfred, assignor.)
Tagliabue, Charles J. (See Schneider, Ralph F., assignor.)
Tague, John J., Bellton, W. Va. Pipe or tubing wrench. No. 1,006,024; Oct. 17; Sp. p. 3186; Gaz. vol. 171; p. 571.
Taigman, Max. (See Wald, Britsch, and Taigman.)
Tailors' Accessories Co., The. (See Long, Adam A., assignor.)
Tainter, Frank S., Far Hills, assignor to Power Developement Company, Hoboken, N. J. Dam. No. 1,012,750; Dec. 26; Sp. p. 5204; Gaz. vol. 173; p. 932.
Tainter, Silas B. (See Kelly and Tainter.)
Tait, Alfred L. J., Dunedin, New Zealand. Fiber-dressing machinery. No. 986,244; Mar. 7; Sp. p. 1023; Gaz. vol. 164; p. 164.
Tait, Godfrey M. S., Montclair, N. J., assignor to Tait Producer Company, New York, N. Y. Gas-pressure regulator. No. 991,180; May 2; Sp. p. 749; Gaz. vol. 166; p. 127.
Tait, Godfrey M. S., Montclair, N. J., assignor to Tait Producer Company, New York, N. Y. Charging-hopper. No. 992,697; May 16; Sp. p. 3993; Gaz. vol. 166; p. 712.
Tait, Godfrey M. S., Montclair, N. J., assignor to Tait Producer Company, New York, N. Y. Gas-scrubber. No. 998,930; July 25; Sp. p. 5102; Gaz. vol. 168; p. 915.
Tait, Godfrey M. S., Montclair, N. J., assignor to Tait Producer Company, New York, N. Y. Gas-valve. No 998,931; July 25; Sp. p. 5103; Gaz. vol. 168; p. 915.
Tait, Godfrey M. S., Montclair, N. J., assignor to Gas Power Company, New York, N. Y. Scrubber and method of mingling gas and liquid and creating pressure in the gas. No. 992,081; May 9; Sp. p. 2626; Gaz. vol. 166; p. 467.
Tait, Godfrey M. S., Montclair, N. J., and C. Ellis, White Plains, N. Y. Generating and regulating the generation of power. No. 998,655; July 25; Sp. p. 4477; Gaz. vol. 168; p. 817.
Tait, James, *et al.* (See Homan, James, assignor.)
Tait, John B., and T. Maloney, Maricopa, Cal. Ejector for wells. No. 981,716; Jan. 17; Sp. p. 3440; Gaz. vol. 162; p. 582.
Tait Producer Company. (See Tait, Godfrey M. S., assignor.)
Takács, Bertalan, Perth Amboy, N. J. Railway-track construction. No. 1,004,932; Oct. 3; Sp. p. 833; Gaz. vol. 171; p. 135.
Takács, Imre, New York, N. Y. Non-refillable bottle. No. 981,327; Jan. 10; Sp. p. 2636; Gaz. vol. 162; p. 429.

Alphabetical list of patentees—Continued.

Takamine, Jokichi, New York, N. Y. Enzym. No. 991,560; May 9; Sp. p. 1577; Gaz. vol. 166; p. 292.
Takamine, Jokichi, New York, N. Y. Amylolytic enzym. No. 991,561; May 9; Sp. p. 1579; Gaz. vol. 166; p. 292.
Talbert, Daniel H., Indianapolis, Ind. Game apparatus. No. 1,006,314; Oct. 17; Sp. p. 3859; Gaz. vol. 171; p. 674.
Talbert, Daniel H., C. Shaw, J. I. Holcomb, and J. F. Hoke, Jr.; said Shaw, Holcomb, and Hoke assignors to The American Box Ball Company, Indianapolis, Ind. Amusement apparatus. No. 1,004,712; Oct. 3; Sp. p 365; Gaz. vol. 171; p. 59.
Talbert, William W. (See Patenall and Talbert.)
Talbot, Benjamin, Darlington, England. Making steel and ingot-iron. No. 985,225; Feb. 28; Sp. p. 4264; Gaz. vol. 163; p. 772.
Talbot, Benjamin, Darlington, England. Converter or vessel for refining iron and steel. No. 990,313; Apr. 25; Sp. p. 4363; Gaz. vol. 165; p. 773.
Talbot, Charles R., *et al.* (See Cooper and Prismall, assignors.)
Talbot, James A. (See Brett, Henry E., assignor.)
Talbot, James A., and H. E. Brett, Los Angeles, Cal. Combined punching and riveting machine. No. 980,450; Jan. 3; Sp. p. 581; Gaz. vol. 162; p. 96.
Talbot, William O., Biloxi, Miss. Dentist's balance. No. 1,002,784; Sept. 5; Sp. p. 1336; Gaz. vol. 170; p. 202.
Talbutt, Robert H., Baltimore, Md., assignor to J. E. Baines, trustee, Washington, D. C. Electric coffee-roaster. No. 1,012,293; Dec. 19; Sp. p. 4260; Gaz. vol. 173; p. 731.
Taliofarro, Silas D. (See Workman, Joshua, assignor.)
Talley, Charles H., Lincoln, Ill. Engine. No. 996,434; June 27; Sp. p. 5163; Gaz. vol. 167; p. 904.
Talley, Herbert, assignor to Independent Powder Co. of Missouri, Joplin, Mo. Machine for filling shells with explosives. No. 995,045; June 13; Sp. p. 2089; Gaz. vol. 167; p. 364.
Talley, Herbert, assignor to Independent Powder Co. of Missouri, Joplin, Mo. Machine for filling shells with explosives. No. 995,046; June 13; Sp. p. 2094; Gaz. vol. 167; p. 365.
Tallmadge, Fred E. (See Ewer, Malcolm G., assignor.)
Tallmage, Millard F. (See Cole, Frank M., assignor.)
Tallman, Chris, La Fayette, Oreg. Halter. No. 985,642; Feb. 28; Sp. p. 5171; Gaz. vol. 163; p. 914.
Tallman, Ellsworth, Morley, Iowa. Vehicle-tire. No. 1,010,980; Dec. 5; Sp. p. 1279; Gaz. vol. 173; p. 203.
Tallman, George B., Suffern, N. Y. Wearing-shoe for wheelbarrows. No. 993,805; May 30; Sp. p. 6399; Gaz. vol. 166; p. 1153.
Talmon, Charlie E., Berrien Springs, Mich. Spool-holder. No. 1,006,702; Oct. 24; Sp. p. 4712; Gaz. vol. 171; p. 839.
Tambach, Rudolf, assignor to Knoll and Company, Ludwigshafen-on-the-Rhine, Germany. Extract of ergot. No. 1,004,499; Sept. 26; Sp. p. 5071; Gaz. vol. 170; p. 893.
Tambour, Joseph, Nanterre, near Paris, France. Automatic safety device for small-arms with one or several locks. No. 992,082; May 9; Sp. p. 2628; Gaz. vol. 166; p. 468.
Tamburini, Matteo, Paterson, N. J. Mechanical combination-lock. No. 981,140; Jan. 10; Sp. p. 2204; Gaz. vol. 162; p. 363.
Tamburini, Matteo, Paterson, N. J. Combination-lock. No. 1,002,338; Sept. 5; Sp. p. 366; Gaz. vol. 170; p. 51.
Tamm, Henry. (See Jackson and Tamm.)
Tandy, John L., Kansas City, Mo. Cot or couch. No. 1,006,147; Oct. 17; Sp. p. 3470; Gaz. vol. 171; p. 616.
Tandy, John L., Kansas City, Mo. Convertible furniture. No. 1,007,817; Nov. 7; Sp. p. 377; Gaz. vol. 172; p. 59.
Tangen, Louis H., Duluth, Minn. Server for toothpicks or articles of similar splint-like form. No. 1,004,933; Oct. 3; Sp. p. 834; Gaz. vol. 171; p. 135.
Tångring, Olof, Worcester, Mass., assignor to The American Steel & Wire Company of New Jersey, Pittsburg, Pa. Flattened-strand rope. No. 1,004,546; Sept. 26; Sp. p. 5164; Gaz. vol. 170; p. 908.
Tank, Henry P., Alameda, assignor of three-tenths to L. B. Krieger and four-tenths to B. L. Davis, San Francisco, Cal. Variable-pressure chamber. No. 995,497; June 20; Sp. p. 3053; Gaz. vol. 167; p. 544.
Tank, Henry P., Alameda, assignor of three-tenths to L. B. Krieger and four-tenths to B. L. Davis, San Francisco, Cal. Automatic sprinkler. No. 995,498; June 20; Sp. p. 3054; Gaz. vol. 167; p. 545.
Tank, Ludwig. (See Hofmann and Tank.)
Tankersley, William, La Junta, Colo. Hose-coupling-applying implement. No. 994,664; June 6; Sp. p. 1194; Gaz. vol. 167; p. 194.
Tann, James H., Dayton, Ohio. Convertible chair. No. 993,733; May 30; Sp. p. 6260; Gaz. vol. 166; p. 1130.
Tannehill, Charles F. (See Slawson, Marion G., assignor.)
Tannehill, L. B., *et al.* (See Wilkerson, Berra M., assignor.)
Tanner, Charles A., and A. P. Saxer, Pittsburgh, Pa. Gage-cock. No. 1,011,093; Dec. 5; Sp. p. 1525; Gaz. vol. 173; p. 241.
Tanner, Charles A., and A. P. Saxer; said Tanner assignor to Pittsburgh Gage & Supply Company, Pittsburgh, Pa. Water-level indicator. No. 1,011,270; Dec. 12; Sp. p. 1977; Gaz. vol. 173; p. 339.
Tanner, Frank J., and I. E. Jones, assignors to International Text Book Company, Scranton, Pa. Ribbon-spool for type-writing machines. No. 983,180; Jan. 31; Sp. p. 6556; Gaz. vol. 162; p. 1141.
Tanner, Frank J., and I. E. Jones, assignors to International Text Book Company, Scranton, Pa. Paper-feeding mechanism for type-writing machines. No. 1,012,113; Dec. 19; Sp. p. 3874; Gaz. vol. 173; p. 669.
Tanner, Frank J., and E. F. Griffin, assignors to International Text Book Company, Scranton, Pa. Type-writing machine. No. 996,538; June 27; Sp. p. 5361; Gaz. vol. 167; p. 938.
Tanner, George W., Carterville, Ill. Cotton-harvester. No. 1,007,504; Oct. 31; Sp. p. 6491; Gaz. vol. 171; p. 1174.
Tanner, John A., deceased, Boston, Mass.; L. L. Green, administrator. Making sole-leather. No. 983,005; Jan. 31; Sp. p. 6216; Gaz. vol. 162; p. 1083.
Tanner, William G., New Castle, Pa. Curtain and drapery fixture. No. 1,011,666; Dec. 12; Sp. p. 2884; Gaz. vol. 173; p. 481.
Tansey, Thomas F., New York, N. Y. Collapsible container. No. 1,005,083; Oct. 3; Sp. p. 1094; Gaz. vol. 171; p. 185.
Taphorn, William H., Belleville, Ill. Mold-pattern for stove-lids. No. 981,898; Jan. 17; Sp. p. 3846; Gaz. vol. 162; p. 648.
Taplin-Rice, Clerkin Company, The. (See Clerkin, William, assignor.)
Tappan, Frank. (See Crocker, and Tappan.)
Tappenden, Richard L. (See Ashworth, Luke, assignor.)
Tappendorff, Fred H., Eureka, Cal. Saw-swage. No. 1,008,621; Nov. 14; Sp. p. 2250; Gaz. vol. 172; p. 383.
Tapper, Reginald H. (See Large and Tapper.)
Taraglio, Giuseppe, Rome, Italy. Pneumatic shock-absorber. No. 998,997; July 25; Sp. p. 5269; Gaz. vol. 168; p. 938.
Tarbet, Clarence W., Chicago, Ill. Attachment for bedsteads. No. 996,811; July 4; Sp. p. 429; Gaz. vol. 168; p. 72.
Tarbox, Ubert P., Toronto, Ontario, Canada. Mop-holder. No. 1,001,090; Aug. 22; Sp. p. 4098; Gaz. vol. 169; p. 751.
Tardieu, Victorien, Arles, France. Telephone-body support. No. 986,606; Mar. 14; Sp. p. 1804; Gaz. vol. 164; p. 320.
Tardif, William D., Stanford, Ky. Locomotive-coupling. No. 1,007,818; Nov. 7; Sp. p. 384; Gaz. vol. 172; p. 60.
Tarien, Elmer A., and C. F. Werth, Detroit, Mich. Indicator. No. 985,855; Mar. 7; Sp. p. 201; Gaz. vol. 164; p. 33.
Tarnow, George E., Chicago, Ill. Fastening device for ribbon bows and the like. No. 985,075; Feb. 21; Sp. p. 3883; Gaz. vol. 163; p. 686.
Tarr, John P., Jingo, Tenn. Spigot. No. 986,520; Mar. 14; Sp. p. 1624; Gaz. vol. 164; p. 288.
Tarrant, William P., Saratoga Springs, N. Y. Portable platform. No. 985,471; Feb. 28; Sp. p. 4820; Gaz. vol. 163; p. 856.
Tarrant, William P., Saratoga Springs, N. Y. Pouring-pot. No. 1,005,582; Oct. 10; Sp. p. 2240; Gaz. vol. 171; p. 386.
Tarrant, William P., Saratoga Springs, N. Y. Asphalt-distributer. No. 1,009,805; Nov. 28; Sp. p. 4806; Gaz. vol. 172; p. 870.
Tarrisse, Mathurin, Suresnes, France. Frictional gearing. No. 982,104; Jan. 17; Sp. p. 4303; Gaz. vol. 162; p. 717.
Tartar Chemical Company. (See Moszczenski, John B., assignor.)
Tarver, Charles T., Hollywood, Ark. Bolt-holder. No. 985,557; Feb. 28; Sp. p. 5007; Gaz. vol. 163; p. 886.
Tarver, Freeman D., Valdosta, Ga. Plow. No. 987,507; Mar. 21; Sp. p. 3682; Gaz. vol. 164; p. 657.
Tarvin, Guy H., Sisseton, S. D. Shock-loader. No. 1,008,217; Nov. 7; Sp. p. 1229; Gaz. vol. 172; p. 200.
Tate, Alfred O., Toronto, Ontario, Canada. Apparatus for treating liquids electrolytically. No. 991,760; May 9; Sp. p. 1996; Gaz. vol. 166; p. 359.
Tate, Earl H., Los Angeles, Cal. Aero ore-concentrator and placer-machine. No. 984,866; Feb. 21; Sp. p. 3483; Gaz. vol. 163; p. 615.
Tate, Frank C., *et al.* (See Cunningham, Edward R., assignor.)
Tate, James E., Middleton, Ga. Crate. No. 986,102; Mar. 7; Sp. p. 735; Gaz. vol. 164; p. 118.
Tate, Thomas A., Bisbee, Ariz., assignor of one-half to E. F. Williams, Los Angeles, Cal. Ironing-board. No. 983,656; Feb. 7; Sp. p. 863; Gaz. vol. 163; p. 138.
Tatham, James E., Balmain, near Sydney, New South Wales, assignor to himself, and F. J. McDonald, Sydney, Australia. Needle-holder. No. 995,305; June 13; Sp. p. 2596; Gaz. vol. 167; p. 449.
Tatro, Charles P. (See Delius and Tatro.)
Tatro, Charles P., Seattle, Wash. Extension tree-prop. No. 999,908; Aug. 8; Sp. p. 1435; Gaz. vol. 169; p. 273.

Alphabetical list of patentees—Continued.

Tattershall, Thomas, Newport, Ky. Attachment for lathes. No. 998,656; July 25; Sp. p. 4481; Gaz. vol. 168; p. 818.
Tattu, Radu, New York, N. Y. Tube-bending machine. No. 986,654; Mar. 14; Sp. p. 1915; Gaz. vol. 164; p. 337.
Tatum, Charles A., assignor to Whitall Tatum Company, New York, N. Y. Breast-pump. No. 993,124; May 23; Sp. p. 4933; Gaz. vol. 166; p. 893.
Tatum, Franklin M., Teneha, assignor of three-fourths to J. P. Clevenger, Nacogdoches, and one-fourth to D. B. Woods and H. E. Norris, Shelby county, Tex. Vehicle-wheel. No. 1,007,615; Oct. 31; Sp. p. 6735; Gaz. vol. 171; p. 1212.
Tatum, John J. (See Prendergast and Tatum.)
Tatum, John J., Baltimore, Md. Car. No. 1,005,757; Oct. 10; Sp. p. 2595; Gaz. vol. 171; p. 447.
Tatum, Lewis L., Milwaukee, Wis. Motor-controlling device. No. 1,007,402; Oct. 31; Sp. p. 6263; Gaz. vol. 171; p. 1140.
Taub, Ludwig. (See Kropp and Taub.)
Täubert, Ernst. (See Köhn, Claus H., assignor.)
Tauson, Reinhold W., Texas City, Tex. Mail-bag catcher and deliverer. No. 995,202; June 13; Sp. p. 2390; Gaz. vol. 167; p. 415.
Taussig, John H., Philadelphia, Pa. Vertical-retort gas apparatus. No. 999,349; Aug. 1; Sp. p. 305; Gaz. vol. 169; p. 55.
Tawlks, Allan, assignor of one-half to I. D. Clark, Harvey, N. D. Car-coupling. No. 990,349; Apr. 25; Sp. p. 4438; Gaz. vol. 165; p. 785.
Taximeter Control Company. (See Sulsona, Joseph D., assignor.)
Taxis, Frederick C., St. Louis, Mo., assignor of one-half to William B. Hough Company, Chicago, Ill. Concrete floor construction. (Reissue.) No. 13,252; May 30; Sp. p. 7021; Gaz. vol. 166; p. 1261.
Taylor, Adrian A., Lincoln, Nebr. Car-step. No. 986,103; Mar. 7; Sp. p. 736; Gaz. vol. 164; p. 119.
Taylor, Adrian A., Lincoln, Nebr. Collapsible crate. No. 991,666; May 9; Sp. p. 1818; Gaz. vol. 166; p. 330.
Taylor, Adrian A., Lincoln, Nebr. Separable cask or barrel. No. 1,001,323; Aug. 22; Sp. p. 4579; Gaz. vol. 169; p. 828.
Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Pneumatic hammer. No. 981,899; Jan. 17; Sp. p. 3847; Gaz. vol. 162; p. 648.
Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Hammer-drill. No. 982,397; Jan. 24; Sp. p. 4904; Gaz. vol. 162; p. 850.
Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Hammer-drill. No. 991,667; May 9; Sp. p. 1819; Gaz. vol. 166; p. 330.
Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Hammer-drill. No. 992,456; May 16; Sp. p. 3491; Gaz. vol. 166; p. 628.
Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Rotation device for fluid-pressure-operated hammer-tools. No. 998,864; July 25; Sp. p. 4958; Gaz. vol. 168; p. 891.
Taylor, Albert H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Rotation device for fluid-pressure-operated hammer-tools. No. 998,932; July 25; Sp. p. 5106; Gaz. vol. 168; p. 916.
Taylor, Alfred, Colwood, British Columbia, Canada. Cultivator. No. 997,426; July 11; Sp. p. 1724; Gaz. vol. 168; p. 313.
Taylor, Alfred M., Birmingham, England. System of electrical distribution. No. 1,004,826; Oct. 3; Sp. p. 591; Gaz. vol. 171; p. 98.
Taylor, Anna, Ottawa, Ontario, Canada. Artificial eyelash. No. 994,619; June 6; Sp. p. 1071; Gaz. vol. 167; p. 178.
Taylor, Arthur B., Morwell, Victoria, Australia. Animal feed-trough. No. 984,980; Feb. 21; Sp. p. 3695; Gaz. vol. 163; p. 652.
Taylor, Arthur B., assignor of one-half to W. P. Culver, Detroit, Mich. Detachable-link chain. No. 992,740; May 16; Sp. p. 4077; Gaz. vol. 166; p. 728.
Taylor, Arthur E., Elyria, Ohio. Nut-tapping machine. No. 1,012,294; Dec. 19; Sp. p. 4265; Gaz. vol. 173; p. 732.
Taylor, Arthur M., Keuka Park, N. Y., assignor to The Taylor Basket and Machine Company, Erie, Pa. Nail-feeding device. No. 987,331; Mar. 21; Sp. p. 3326; Gaz. vol. 164; p. 597.
Taylor, Arthur M., Keuka Park, N. Y., assignor to The Taylor Basket and Machine Company, Erie, Pa. Basket. No. 994,214; June 6; Sp. p. 238; Gaz. vol. 167; p. 40.
Taylor Basket and Machine Company, The. (See Taylor, Arthur M., assignor.)
Taylor, C. R., administrator. (See Taylor and Boin.)
Taylor, Charles E., Methuen, Mass., assignor to Crompton & Knowles Loom Works. Binder-finger-releasing mechanism. No. 994,545; June 6; Sp. p. 924; Gaz. vol. 167; p. 153.
Taylor, Charles E., deceased, and G. S. Boin, Watsonville, Cal.; C. R. Taylor, administrator. Box-lid press. No. 1,005,669; Oct. 10; Sp. p. 2423; Gaz. vol. 171; p. 417.
Taylor, Charles F., Hartford, Conn. Machine for binding tablets. No. 984,115; Feb. 14; Sp. p. 1872; Gaz. vol. 163; p. 321.
Taylor, Charles M., Paris, Ky. Lineman's pruning implement. No. 988,153; Mar. 28; Sp. p. 5106; Gaz. vol. 164; p. 905.
Taylor, Charles S., Los Angeles, Cal. Polishing compound. No. 983,783; Feb. 7; Sp. p. 1126; Gaz. vol. 163; p. 180.
Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Machine-brake. No. 987,927; Mar. 28; Sp. p. 4608; Gaz. vol. 164; p. 829.
Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Overhead crane. No. 996,162; June 27; Sp. p. 4487; Gaz. vol. 167; p. 811.
Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Three-high-roll mill. No. 1,004,500; Sept. 26; Sp. p. 5073; Gaz. vol. 170; p. 893.
Taylor, Clark M., *et al.* (See Stanley, George W., assignor.)
Taylor, Daniel H., Palisades, Colo. Electric drop-light. No. 1,005,902; Oct. 17; Sp. p. 2914; Gaz. vol. 171; p. 529.
Taylor, David H., Adelaide, South Australia, Australia. Game apparatus. No. 1,008,874; Nov. 14; Sp. p. 2785; Gaz. vol. 172; p. 468.
Taylor, Daws, *et al.* (See Stanley, George W., assignor.)
Taylor, Edward E., and D. H. Elkins, assignors to Gray & Davis, Amesbury, Mass. Lamp-socket. No. 997,588; July 11; Sp. p. 2053; Gaz. vol. 168; p. 366.
Taylor, Edward H., Atlanta, Ga. Hair-ironing comb. No. 1,002,942; Sept. 12; Sp. p. 1713; Gaz. vol. 170; p. 296.
Taylor, Edward R., Penn Yan, N. Y. Electric smelting-furnace. No. 985,226; Feb. 28; Sp. p. 4265; Gaz. vol. 163; p. 772.
Taylor, Edwin, Brooklyn, assignor to Union Clay Products Company, New York, N. Y. Preparation of aluminous compositions. No. 989,662; Apr. 18; Sp. p. 2941; Gaz. vol. 165; p. 519.
Taylor, Edwin, Brooklyn, assignor to Union Clay Products Company, New York, N. Y. Aluminous composition. No. 1,004,934; Oct. 3; Sp. p. 836; Gaz. vol. 171; p. 136.
Taylor, Elmer Z., London, England, assignor, by mesne assignments, to American Mono Service Company, Atlantic City, N. J. Apparatus for manufacture of paper vessels. No. 987,928; Mar. 28; Sp. p. 4610; Gaz. vol. 164; p. 830.
Taylor, Ernest W., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Means for handling freight in storage-buildings. No. 1,008,218; Nov. 7; Sp. p. 1233; Gaz. vol. 172; p. 201.
Taylor, Floyd T., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for electric motors. No. 990,464; Apr. 25; Sp. p. 4701; Gaz. vol. 165; p. 827.
Taylor, Floyd T., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controller for electric motors. No. 991,181; May 2; Sp. p. 752; Gaz. vol. 166; p. 127.
Taylor, George, Jersey City, N. J. Regulating-valve. No. 993,806; May 30; Sp. p. 6400; Gaz. vol. 166; p. 1154.
Taylor, George B., Birmingham, England. Certain kind of spiral chucks. No. 990,172; Apr. 18; Sp. p. 4013; Gaz. vol. 165; p. 691.
Taylor, George F. (See Payne, Taylor, and Peterson.)
Taylor, George P., Holyoke, Mass. Envelop-machine. No. 984,451; Feb. 14; Sp. p. 2570; Gaz. vol. 163; p. 435.
Taylor, George P., Luther, Okla. Speedometer. No. 995,926; June 20; Sp. p. 4001; Gaz. vol. 167; p. 695.
Taylor, George R., Blackpool, England. Apparatus for bending cardboard. No. 999,909; Aug. 8; Sp. p. 1436; Gaz. vol. 169; p. 273.
Taylor, George W. (See Harris, William A., assignor.)
Taylor, George W., Philadelphia, Pa. Emergency-brake. No. 999,531; Aug. 1; Sp. p. 667; Gaz. vol. 169; p. 114.
Taylor, Harold B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric heating device and constructing the same. No. 1,005,360; Oct. 10; Sp. p. 1729; Gaz. vol. 171; p. 308.
Taylor, Harry M., Columbia, S. C. Platform or gangway for freight-cars. No. 1,006,025; Oct. 17; Sp. p. 3188; Gaz. vol. 171; p. 572.
Taylor, Henry B., Montreal, Quebec, Canada. Bottle-closure. No. 985,856; Mar. 7; Sp. p. 203; Gaz. vol. 164; p. 33.
Taylor, Henry H., Bridgeport, Conn. Garment-clasp. No. 997,217; July 4; Sp. p. 1304; Gaz. vol. 168; p. 212.
Taylor, Henry O., Rockford, Ill. Hand tenoning-machine. No. 991,668; May 9; Sp. p. 1821; Gaz. vol. 166; p. 330.
Taylor, Henry R., Copperton, N. Mex. Miner's tool. No. 999,133; July 25; Sp. p. 5532; Gaz. vol. 168; p. 983.
Taylor, Henry W., Corsicana, Tex. Caster. No. 992,290; May 16; Sp. p. 3133; Gaz. vol. 166; p. 570.
Taylor, Herbert B., assignor to Federal Signal Company, Albany, N. Y. Holding and releasing device for electrical instruments. No. 1,008,571; Nov. 14; Sp. p. 2143; Gaz. vol. 172; p. 365.
Taylor Instrument Companies. (See Howe, James, assignor.)

Alphabetical list of patentees—Continued.

Taylor Instrument Companies. (See Norwood, Harry Y., assignor.)
Taylor Instrument Companies. (See Thompson, John A., assignor.)
Taylor Instrument Companies. (See Winn, Herbert J., assignor.)
Taylor Iron & Steel Company. (See Fish, Samuel W., assignor.)
Taylor Iron & Steel Company. (See Fish and Layton, assignors.)
Taylor Iron & Steel Company. (See Hunt, Harry A., assignor.)
Taylor, Isaac F., East Dulwich, London, England. Crane. No. 998,134; July 18; Sp. p. 3335; Gaz. vol. 168; p. 601.
Taylor, James, *et al.* (See Anderson, Gustave, assignor.)
Taylor, James, Peoria, Ill. Automatic mine-door. No. 996,949; July 4; Sp. p. 728; Gaz. vol. 168; p. 119.
Taylor, James, Peoria, Ill. Miner's acetylene-lamp. No. 996,950; July 4; Sp. p. 733; Gaz. vol. 168; p. 120.
Taylor, James H., Chicago, Ill. Making car-wheels. No. 981,034; Jan. 10; Sp. p. 1972; Gaz. vol. 162; p. 325.
Taylor, James H., Oak Park, Ill. Bending pipe. No. 996,163; June 27; Sp. p. 4489; Gaz. vol. 167; p. 812.
Taylor, James H., Woodstock, assignor to The Oliver Typewriter Company, Chicago, Ill. Paper-carriage for typewriting machines. No. 983,581; Feb. 7; Sp. p. 715; Gaz. vol. 163; p. 111.
Taylor, James M. R. (See Wilson, Peter M., assignor.)
Taylor, James W., Antigonishe, Nova Scotia, Canada. Broiler. No. 1,010,981; Dec. 5; Sp. p. 1281; Gaz. vol. 173; p. 203.
Taylor, Jesse M. (See Taylor, William S. and J. M.)
Taylor, John B., Schenectady, N. Y., assignor to General Electric Company. Neutralizing inductive disturbances. No. 996,376; June 27; Sp. p. 5020; Gaz. vol. 167; p. 884.
Taylor, John B., Schenectady, N. Y., assignor to General Electric Company. Neutralizing inductive disturbances. No. 1,010,982; Dec. 5; Sp. p. 1282; Gaz. vol. 173; p. 203.
Taylor, John E. S., Highland Park, assignor of one-half to R. M. MacKenzie, Detroit, Mich. Cleaning and polishing device. No. 1,000,458; Aug. 15; Sp. p. 2655; Gaz. vol. 169; p. 493.
Taylor, John J., 2d, Wilkinsburg, Pa. Folding box and crate. No. 1,003,217; Sept. 12; Sp. p. 2272; Gaz. vol. 170; p. 391.
Taylor, John J., and L. K. Hoss, Cherryvale, Kans. Plug-retainer. No. 990,508; Apr. 25; Sp. p. 4834; Gaz. vol. 165; p. 843.
Taylor, John L., Portland, Oreg. Hand-derrick. No. 1,003,072; Sept. 12; Sp. p. 1952; Gaz. vol. 170; p. 338.
Taylor, John L., Chicago, Ill. Portable derrick. No. 1,010,530; Dec. 5; Sp. p. 291; Gaz. vol. 173; p. 46.
Taylor, John W., Cincinnati, Ohio. Paper pulley. No. 1,002,607; Sept. 5; Sp. p. 957; Gaz. vol. 170; p. 142.
Taylor, Joseph. (See Ensbury, Alexander, and Taylor.)
Taylor, Joseph, *et al.* (See Stanley, George W., assignor.)
Taylor, Jotham B., Auburn, N. Y. Lifting-jack. No. 986,781; Mar. 14; Sp. p. 2167; Gaz. vol. 164; p. 378.
Taylor, Leslie B., Bournbrook, Birmingham, England. Firearm. No. 985,076; Feb. 21; Sp. p. 3884; Gaz. vol. 163; p. 686.
Taylor, Lewis W., assignor to O. H. Briggs, trustee, Washington, D. C. Firing mechanism for guns. No. 1,008,091; Nov. 7; Sp. p. 949; Gaz. vol. 172; p. 153.
Taylor, Marshall, Pittsburg, Pa. Adhesive plaster. No. 986,655; Mar. 14; Sp. p. 1916; Gaz. vol. 164; p. 337.
Taylor Provision Company, The. (See Seitz, George W., assignor.)
Taylor, Robert, Clapton, London, England. Safety-razor. No. 990,682; Apr. 25; Sp. p. 5215; Gaz. vol. 165; p. 900.
Taylor, Robert A., Travellers Rest, S. C. Threading shuttle-eye. No. 988,294; Mar. 28; Sp. p. 5385; Gaz. vol. 164; p. 952.
Taylor, Robert F., American Falls, Idaho. Wrench. No. 1,007,819; Nov. 7; Sp. p. 386; Gaz. vol. 172; p. 60.
Taylor, Robert W., Kalamazoo, Mich. Hat-pin holder. No. 996,682; July 4; Sp. p. 169; Gaz. vol. 168; p. 30.
Taylor, Rufus O. (See Floyd, Harry W., assignor.)
Taylor, Russell E., New York, N. Y. Bed. No. 1,004,104; Sept. 26; Sp. p. 4257; Gaz. vol. 170; p. 759.
Taylor, Russell L., Fair Grounds, Oreg. Horse-releaser. No. 981,496; Jan. 10; Sp. p. 2994; Gaz. vol. 162; p. 487.
Taylor, Samuel, Houston, Tex. Hair-drying brush. No. 990,314; Apr. 25; Sp. p. 4365; Gaz. vol. 165; p. 773.
Taylor, Samual D., Unionville, Iowa. Rail-joint. No. 1,004,217; Sept. 26; Sp. p. 4506; Gaz. vol. 170; p. 797.
Taylor, Samuel M., assignor of one-half to I. Pasinetti, Truckee, Cal. Display-rack. No. 997,518; July 11; Sp. p. 1907; Gaz. vol. 168; p. 342.
Taylor, Thomas H., Luzerne, N. Y. Trap. No. 1,003,303; Sept. 12; Sp. p. 2451; Gaz. vol. 170; p. 422.
Taylor, Walter B., *et al.* (See Smith and Goddard, assignors.)
Taylor, Walter F., and V. Durbin, Brookline, Mass., assignors to Holtzer-Cabot Electric Company. Telephone instrument. No. 1,010,531; Dec. 5; Sp. p. 293; Gaz. vol. 173; p. 46.
Taylor, Warren H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock for safes and vaults. No. 991,669; May 9; Sp. p. 1822; Gaz. vol. 166; p. 331.
Taylor, Warren H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Safe-deposit lock. No. 993,908; May 30; Sp. p. 6589; Gaz. vol. 166; p. 1187.
Taylor, Warren H., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock. No. 995,814; June 20; Sp. p. 3769; Gaz. vol. 167; p. 657.
Taylor, William. (See Hunt and Taylor.)
Taylor, William, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Storage-battery separator. No. 1,012,751; Dec. 26; Sp. p. 5206; Gaz. vol. 173; p. 933.
Taylor, William, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Storage-battery separator. No. 1,012,752; Dec. 26; Sp. p. 5207; Gaz. vol. 173; p. 933.
Taylor, William E., Eastport, Me., assignor to American Can Company, New York, N. Y. Can-body-making machine. No. 1,002,339; Sept. 5; Sp. p. 368; Gaz. vol. 170; p. 52.
Taylor, William G., Waterbury, Conn. Valve. No. 984,718; Feb. 21; Sp. p. 3198; Gaz. vol. 163; p. 566.
Taylor, William H., Kewanee, Ill. Sleeping-berth. No. 989,081; Apr. 11; Sp. p. 1667; Gaz. vol. 165; p. 290.
Taylor, William H., Flint, Mich. Tool-holder. No. 1,011,667; Dec. 12; Sp. p. 2885; Gaz. vol. 173; p. 481.
Taylor, William L. (See Hays and Dinkins, assignors.)
Taylor, William N., Portland, Me. Game apparatus. No. 1,004,935; Oct. 3; Sp. p. 836; Gaz. vol. 171; p. 136.
Taylor, William S., Roll, and J. M. Taylor, Centerville, Ind. Ringer. No. 997,340; July 11; Sp. p. 1572; Gaz. vol. 168; p. 285.
Taylor, Zachra, *et al.* (See Stanley, George W., assignor.)
Tea Tray Company of Newark, N. J. (See Beecroft, Clement, assignor.)
Tea Tray Company of Newark, N. J., The. (See Beetham, Thomas J., assignor.)
Teaboldt, C. R. (See Shimpf, Walter H., assignor.)
Teachout, Franklin D. (See King, Henry N., assignor.)
Teague, Elmer E., *et al.* (See Messer, Vladimir V., assignor.)
Teate, Thomas A., assignor of three-fourths to Neel Bros., Thomasville, Ga. Sewing-machine attachment. No. 995,499; June 20; Sp. p. 3056; Gaz. vol. 167; p. 545.
Tebbetts, Lewis B., 2d, assignor of one-half to Hoyt Metal Company, St. Louis, Mo. Making composite metal plates. No. 1,011,524; Dec. 12; Sp. p. 2532; Gaz. vol. 173; p. 430.
Tebbit, Arber, Medina, Ohio. Homogenizing-machine. No. 1,000,641; Aug. 15; Sp. p. 3091; Gaz. vol. 169; p. 560.
Tebbutt, John T., Three Rivers, Quebec, Canada. Manufacture of shoes. No. 1,011,668; Dec. 12; Sp. p. 2886; Gaz. vol. 173; p. 481.
Tebyriçá, Mario W., Sao Paulo, Brazil. Hydromobile. No. 987,508; Mar. 21; Sp. p. 3683; Gaz. vol. 164; p. 657.
Technical Supply Company. (See Frantz, Jacob A., assignor.)
Techno-Chemical Laboratories Limited. (See Ekenberg, Martin, assignor.)
Tedder, Iverson G., Holland, Tex. Draft-equalizer. No. 1,003,160; Sept. 12; Sp. p. 2148; Gaz. vol. 170; p. 369.
Tedesco, Thomas, Peckville, Pa. Steam-fitter drafting-machine. No. 1,011,271; Dec. 12; Sp. p. 1979; Gaz. vol. 173; p. 340.
Teeter, Clyde S., and R. E. Bird, Chicago, Ill. Coin-actuated mechanism. No. 1,011,272; Dec. 12; Sp. p. 1981; Gaz. vol. 173; p. 340.
Teeter, Samuel M., Wellston, Mo. Adjustable measuring device. No. 984,452; Feb. 14; Sp. p. 2579; Gaz. vol. 163; p. 436.
Teetor, Charles N., Hagerstown, Ind. Valve for internal-combustion engines. No. 1,009,599; Nov. 21; Sp. p. 4380; Gaz. vol. 172; p. 755.
Tefft, Charles W., Toledo, Ohio. Car-door hanger and track. No. 1,010,818; Dec. 5; Sp. p. 922; Gaz. vol. 173; p. 145.
Tefo, George, Vulcan, Mich. Potato-digger. No. 989,442; Apr. 11; Sp. p. 2433; Gaz. vol. 165; p. 411.
Tegmeier, George H., Edwardsville, Ill. Holder for samples of cloth. No. 1,007,403; Oct. 31; Sp. p. 6266; Gaz. vol. 171; p. 1140.
Teich, Ernest L. (See Arens and Teich.)
Teich, Ernest L. (See Corbin and Teich.)
Teichgraeber, Theodor. (See Müller, Franz, assignor.)
Teichner, Gustav, assignor to Consortium für Elektrochemische Industrie Gesellschaft mit beschränkter Haftung, Nuremberg, Germany. Production of compounds of persulfuric acid. No. 981,900; Jan. 17; Sp. p. 3849; Gaz. vol. 162; p. 649.
Teisset, Jules, and J. Prat, Paris, France. Kessler apparatus for concentrating sulfuric acid. No. 993,125; May 23; Sp. p. 4933; Gaz. vol. 166; p. 893.
Telechronometer Company. (See Babcock, Garrison, assignor.)
Telelectric Company, The. (See Powers and Jewell, assignors.) (Reissue.)
Telepost Company, The. (See Arnold, George A., assignor.)

Alphabetical list of patentees—Continued.

Telepost Company, The. (See Delany, Patrick B., assignor.)
Telford, James P., Owen Sound, Ontario, Canada. Trolling-hook. No. 1,002,785; Sept. 5; Sp. p. 1338; Gaz. vol. 170; p. 202.
Temco Manufacturing Company, The. (See Meier, Albert J., assignor.)
Temme, William H., New Kensington, Pa. Conductor or drain-pipe. No. 1,011,669; Dec. 12; Sp. p. 2887; Gaz. vol. 173; p. 482.
Temperley, John R. (See Cockburn and Temperley.)
Temperley, Joseph. (See Cockburn and Temperley.)
Temple, C. H., *et al.* (See Woodbury, Roy J., assignor.)
Temple, David L., Chicago, Ill., and C. L. Goodrum, Atlantic City, N. J., assignors, by mesne assignments, to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone system. No. 989,205; Apr. 11; Sp. p. 1910; Gaz. vol. 165; p. 331.
Temple Engineering Company, The. (See Temple, Robert, assignor.)
Temple, George W., Philadelphia, Pa. Machine for manufacturing hard fiber in flat form. No. 995,736; June 20; Sp. p. 3583; Gaz. vol. 167; p. 630.
Temple, John C., Whitefield, N. H. Combined tire-support and tool-case. No. 1,008,680; Nov. 14; Sp. p. 2389; Gaz. vol. 172; p. 403.
Temple, Joseph N., Uhrichsville, Ohio. Air-brake. No. 1,002,092; Aug. 29; Sp. p. 6171; Gaz. vol. 169; p. 1116.
Temple, Mary A., *et al.* (See Woodbury, Roy J., assignor.)
Temple, Robert, assignor to The Temple Engineering Company, Denver, Colo. Air-compressor. No. 995,815; June 20; Sp. p. 3772; Gaz. vol. 167; p. 658.
Temple, Robert, assignor to The Temple Engineering Company, Denver, Colo. Rock-cutting apparatus. No. 1,001,903; Aug. 29; Sp. p. 5791; Gaz. vol. 169; p. 1055.
Temple, Robert, assignor to The Temple Engineering Company, Denver, Colo. Rock-cutter. No. 1,002,786; Sept. 5; Sp. p. 1339; Gaz. vol. 170; p. 202.
Temple, William O., *et al.* (See Ross, Harry B., assignor.)
Temples, Ambrose, McIntire, Ga. Conveying apparatus. No. 989,663; Apr. 18; Sp. p. 2942; Gaz. vol. 165; p. 519.
Temples, William W., Columbus, Ga. Fluid-pressure valve. No. 999,273; Aug. 1; Sp. p. 154; Gaz. vol. 169; p. 29.
Templeton, John, *et al.* (See Ogden, George J., assignor.)
Templeton, William F., Bigcut, Va. Churn. No. 987,773; Mar. 28; Sp. p. 4258; Gaz. vol. 164; p. 776.
Templeton, William M., Averyville, Ill. Lubricator. No. 1,012,114; Dec. 19; Sp. p. 3876; Gaz. vol. 173; p. 670.
Templin, Richard L., Cleveland, Ohio. Water-heater. No. 1,007,749; Nov. 7; Sp. p. 220; Gaz. vol. 172; p. 35.
Ten Eyck, Frank E., Auburn, N. Y., assignor to A. W. Pope, Boston, Mass. Automobile pump-bracket. No. 987,332; Mar. 21; Sp. p. 3328; Gaz. vol. 164; p. 597.
Ten Eyck, Peter C. (See Reynolds and Ten Eyck.)
Ten Eyck, Peter G., Albany, N. Y. Insulated rail-joint. No. 997,475; July 11; Sp. p. 1813; Gaz. vol. 168; p. 328.
Ten Winkel, Herman, Denver, Colo. Oil separator and purifier. No. 985,961; Mar. 7; Sp. p. 433; Gaz. vol. 164; p. 70.
Tenham, Herman, Brandon, Wis. Equalizing drive mechanism. No. 993,472; May 30; Sp. p. 5671; Gaz. vol. 166; p. 1037.
Tennal, Samuel J., Wallace, Idaho. Sand and slime separator. No. 1,004,105; Sept. 26; Sp. p. 4260; Gaz. vol. 170; p. 759.
Tennant, Arthur S., and G. Prendergast, Buffalo, N. Y. Grape-tie. No. 997,022; July 4; Sp. p. 921; Gaz. vol. 168; p. 146.
Tenney, Charles H. (See Burgi, Herman, assignor.)
Tenney, Jay A., Eureka, Cal. Beading attachment for harness-machines. No. 999,416; Aug. 1; Sp. p. 443; Gaz. vol. 169; p. 78.
Tenney, Perry L., assignor of one-half to W. M. Latham, Alameda, Cal. Rotary valve. No. 994,620; June 6; Sp. p. 1072; Gaz. vol. 167; p. 179.
Tenney, Robert B., Jr., Schenectady, N. Y. Signaling device. No. 990,683; Apr. 25; Sp. p. 5217; Gaz. vol. 165; p. 501.
Tennison, John T., Okemah, Okla. Vehicle-axle. No. 1,008,875; Nov. 14; Sp. p. 2787; Gaz. vol. 172; p. 469.
Tenny, Warren L. (See March and Tenny.)
Tenow, Adolf J., assignor to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Machine for sawing timber. No. 1,010,091; Nov. 28; Sp. p. 5399; Gaz. vol. 172; p. 967.
Tenow, Adolf J., and J. E. Boström, assignors to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Sawing-machine and the like. No. 1,007,157; Oct. 31; Sp. p. 5751; Gaz. vol. 171; p. 1053.
Tenow, Adolf J., and C. E. Andersson, assignors to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Means for placing timber in position for sawing. No. 1,007,158; Oct. 31; Sp. p. 5753; Gaz. vol. 171; p. 1053.
Ter Weer, Garhardus L., assignor of one-third to S. R. Tymstra and J. H. Figee, Detroit, Mich. Carbureter. No. 1,006,033; Oct. 17; Sp. p. 3203; Gaz. vol. 171; p. 575.
Terhorst, Harvey, Milwaukee, Wis. Vehicle shock-absorber. No. 994,546; June 6; Sp. p. 926; Gaz. vol. 167; p. 153.
Tern, Robert, Schwartau, near Lübeck, Germany. Conserving fish-meat. No. 999,274; Aug. 1; Sp. p. 155; Gaz. vol. 169; p. 29.
Terpening, Elmer A., Geneseo, Ill. Tire-inflation-testing appliance. No. 984,453; Feb. 14; Sp. p. 2580; Gaz. vol. 163; p. 436.
Terrasit-Industrie G. m. b. H. (See Cramer, Eduard, assignor.)
Terrel, David, Degraff, Ohio. Rail-joint. No. 1,011,670; Dec. 12; Sp. p. 2888; Gaz. vol. 173; p. 482.
Terrell, Clarence D., Covington, Ga. Filing-machine attachment. No. 1,002,010; Aug. 29; Sp. p. 6022; Gaz. vol. 169; p. 1090.
Terrell, James W., Chico, Cal. Faucet. No. 1,012,295; Dec. 19; Sp. p. 4271; Gaz. vol. 173; p. 732.
Terrell, Thomas, London, England. Manufacture of incandescent mantles. No. 987,333; Mar. 21; Sp. p. 3329; Gaz. vol. 164; p. 598.
Terrisse, Henri, assignor to Fabrique de Vernis et Produits Chimiques Société Anonyme, Vernier, near Geneva, Switzerland. Submarine paint. No. 1,012,177; Dec. 19; Sp. p. 4012; Gaz. vol. 173; p. 691.
Terry, Alfred E., Redditch, England. Screw locking nut. No. 988,911; Apr. 4; Sp. p. 1298; Gaz. vol. 165; p. 209.
Terry, Carlton L., and P. Townsend, Cleveland, Ohio. Electrical switch. No. 1,006,148; Oct. 17; Sp. p. 3474; Gaz. vol. 171; p. 616.
Terry, Coleman A., deceased, New York, N. Y.; Emma J. Terry, administratrix, assignor to Terry Core Drill Company. Core-drill. No. 1,006,418; Oct. 17; Sp. p. 4075; Gaz. vol. 171; p. 710.
Terry Core Drill Company. (See Terry, Coleman A., assignor.)
Terry, Emma J., administratrix. (See Terry, Coleman A.)
Terry, Ervin C. (See Terry, James L. and E. C.)
Terry, Franklin A., San Francisco, Cal. Aerial toy. No. 985,301; Feb. 28; Sp. p. 4439; Gaz. vol. 163; p. 798.
Terry, George O., Minneapolis, Minn. Spark-plug. No. 1,009,867; Nov. 28; Sp. p. 4933; Gaz. vol. 172; p. 891.
Terry, Ira C., Monroe, La. Hay-press. No. 986,873; Mar. 14; Sp. p. 2372; Gaz. vol. 164; p. 411.
Terry, James L. and E. C., Lisbon, Iowa. Hopple. No. 985,472; Feb. 28; Sp. p. 4822; Gaz. vol. 163; p. 857.
Terry, Lee P., Fairland, Okla. Railway-spike. No. 989,825; Apr. 18; Sp. p. 3298; Gaz. vol. 165; p. 575.
Terry, Otis N., Lincoln, Nebr., assignor of one-half to R. D. Smith, Boston, Mass. Grease-cup. No. 989,311; Apr. 11; Sp. p. 2167; Gaz. vol. 165; p. 369.
Terry, Otis N., Lincoln, Nebr., assignor of one-half to R. D. Smith, Boston, Mass. Grease-plug. No. 1,009,113; Nov. 21; Sp. p. 3308; Gaz. vol. 172; p. 585.
Terry Steam Turbine Company, The. (See London, William J. A., assignor.)
Terry, William S., *et al.* (See Dunham, William L., assignor.)
Terwilliger, Charles E., Santa Cruz, Cal. Electrically-heated cooker. No. 990,927; May 2; Sp. p. 214; Gaz. vol. 166; p. 37.
Terwilliger, Charles O., Mohawk, N. Y. Union garment. No. 992,291; May 16; Sp. p. 3134; Gaz. vol. 166; p. 571.
Terzian, Bedros M., and W. Hughes, Oakland, Cal. Fountain blacking-brush. No. 1,004,936; Oct. 3; Sp. p. 838; Gaz. vol. 171; p. 136.
Tesse, Theodore F. (See Nauton, de Marsac, and Tesse.)
Tesseyman, John E., assignor to The Ralston Steel Car Company, Columbus, Ohio. Dumping-car. No. 1,007,820; Nov. 7; Sp. p. 387; Gaz. vol. 172; p. 60.
Tessier, Eugène, New Bedford, Mass. Horseshoeing-rack. No. 988,407; Apr. 4; Sp. p. 255; Gaz. vol. 165; p. 41.
Teste, Etienne, Paris, France. Reed for motor-horns and the like. No. 1,000,307; Aug. 8; Sp. p. 2306; Gaz. vol. 169; p. 409.
Tester, George, Liberty Center, Ohio. Neck attachment for shrouds. No. 988,226; Mar. 28; Sp. p. 5244; Gaz. vol. 164; p. 930.
Testman, Peter C., Baltimore, Md. Toy. No. 992,292; May 16; Sp. p. 3136; Gaz. vol. 166; p. 571.
Testro, James C. (See Dondey and Testro.)
Tetlow, Lewis J., assignor to New England Trolley Wheel Company, Holyoke, Mass. Trolley-wheel. No. 1,000,854; Aug. 15; Sp. p. 3527; Gaz. vol. 169; p. 634.
Teufel, Wilhelm J., Stuttgart, Germany. Plaster bandage. No. 1,003,161; Sept. 12; Sp. p. 2149; Gaz. vol. 170; p. 369.
Teurich, Karl, Chicago, Ill. Lock. No. 1,003,823; Sept. 19; Sp. p. 3551; Gaz. vol. 170; p. 632.
Teuscher, Edward C., *et al.* (See Coup, Albert A., assignor.)
Teuton, Henry C., Adamsville, Tenn. Shoe-lace retainer. No. 1,008,681; Nov. 14; Sp. p. 2391; Gaz. vol. 172; p. 403.
Tevander, Olof N., and A. Manierre, Chicago, Ill. Sealing bottles. (Reissue.) No. 13,190; Jan. 3; Sp. p. 1564; Gaz. vol. 162; p. 248.
Tewksbury, Russell B., Cleveland, Ohio. Thread-cutting tool. No. 1,006,511; Oct. 24; Sp. p. 4309; Gaz. vol. 171; p. 773.

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Tewksbury, Russell B., Cleveland, Ohio. Thread-cutting tool. No. 1,006,512; Oct. 24; Sp. p. 4312; Gaz. vol. 171; p. 773.
Texley, Andrew. (See Morris, William H., assignor.)
Textile Appliances Limited. (See Carver, Thomas A. B., assignor.)
Textile Machine Works. (See Thun and Rahm, assignors.)
Thackray, George E., Westmont borough, Pa. Rail-splice. No. 1,006,604; Oct. 24; Sp. p. 4531; Gaz. vol. 171; p. 808.
Thaden, Herman, Atlanta, Ga. Airship. No. 1,002,093; Aug. 29; Sp. p. 6173; Gaz. vol. 169; p. 1116.
Thalhammer, Karl W., Los Angeles, Cal. Electropneumatic photo-exposure apparatus. No. 1,000,972; Aug. 15; Sp. p. 3782; Gaz. vol. 169; p. 674.
Thalheim, John, assignor to Gurney Refrigerator Co., Fond du Lac, Wis. Refrigerator. No. 982,313; Jan. 24; Sp. p. 4741; Gaz. vol. 162; p. 819.
Tharaldsen, Bernt, Christiansand, Norway. Pulp-strainer. No. 983,784; Feb. 7; Sp. p. 1127; Gaz. vol. 163; p. 180.
Tharaldsen, Filip. (See Thoresen and Tharaldsen.)
Tharaldsen, Filip, Trondhjem, Norway. Reduction and smelting of ore and arrangement therefor. No. 1,007,990; Nov. 7; Sp. p. 753; Gaz. vol. 172; p. 119.
Tharp, Cynthia, Hornell, N. Y. Implement-holder. No. 988,837; Apr. 4; Sp. p. 1164; Gaz. vol. 165; p. 185.
Tharp, John H., Cherokee, Kans. Animal-trap. No. 983,181; Jan. 31; Sp. p. 6558; Gaz. vol. 162; p. 1141.
Thatcher, Frank B., *et al.* (See Thatcher, Thomas J., assignor.)
Thatcher Furnace Company. (See Miller, William, assignor.)
Thatcher, Thomas J., assignor of one-third to F. B. Thatcher and one-third to J. Gray, Detroit, Mich. Tire. No. 1,007,015; Oct. 24; Sp. p. 5407; Gaz. vol. 171; p. 948.
Thau, Max F., Chicago, Ill. Adjustable hat-creasing form or block. No. 998,430; July 18; Sp. p. 3989; Gaz. vol. 168; p. 707.
Thaubald, John, Elkins, W. Va. Portable extension-scaffold. No. 991,182; May 2; Sp. p. 756; Gaz. vol. 166; p. 128.
Thauss, Alfred. (See Dressel, Kothe, and Thauss.)
Thayer, Dexter J., Pittsburg, Pa. Cushion-tire. No. 988,045; Mar. 28; Sp. p. 4904; Gaz. vol. 164; p. 870.
Thayer, E. B., *et al.* (See Rosean, John H., assignor.)
Thayer, Fred I., Farmington, N. H. Outlet-box. No. 982,193; Jan. 17; Sp. p. 4460; Gaz. vol. 162; p. 748.
Thayer, Garland T., Charleston, W. Va. Adjustable screen-bar holder. No. 985,558; Feb. 28; Sp. p. 5009; Gaz. vol. 163; p. 887.
Thayer, George L., Mount Upton, N. Y. Banjo. No. 1,007,750; Nov. 7; Sp. p. 223; Gaz. vol. 172; p. 35.
Thayer, John W. (See Hyde, Emory B., assignor.)
Thayer, Lou V., Atlantic, assignor of one-half to M. A. Williams, Jamestown, Pa. Device for delivering written orders and messages to moving trains. No. 988,046; Mar. 28; Sp. p. 4906; Gaz. vol. 164; p. 870.
Thayer, Ralph W., Jamestown, N. Y. Box-case. No. 1,003,669; Sept. 19; Sp. p. 3225; Gaz. vol. 170; p. 581.
Thebeau, Stephen S., Bangor, Me. Sawmill-dog. No. 985,752; Feb. 28; Sp. p. 5433; Gaz. vol. 163; p. 953.
Theim, Herman J., Hobart, N. Y. Machine for applying insecticide. No. 999,275; Aug. 1; Sp. p. 156; Gaz. vol. 169; p. 30.
Theimer, Max, Elizabeth, N. J. Toggle. No. 998,431; July 18; Sp. p. 3991; Gaz. vol. 168; p. 708.
Theis, Friedrich C., assignor to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Bucking or bleaching vegetable fibers dyed with vat dyestuffs. No. 983,951; Feb. 14; Sp. p. 1521; Gaz. vol. 163; p. 267.
Theis, William J., Chicago, Ill., assignor to Manufacturers Equipment Company. Valve. No. 987,334; Mar. 21; Sp. p. 3330; Gaz. vol. 164; p. 598.
Theisen, Bruno H., and G. S. Keller, Minneapolis, Minn. Pull-off mechanism for stitching-machines. No. 982,547; Jan. 24; Sp. p. 5233; Gaz. vol. 162; p. 902.
Theisen, Bruno H., and G. S. Keller, Minneapolis, Minn. Shuttle mechanism. No. 982,548; Jan. 24; Sp. p. 5234; Gaz. vol. 162; p. 903.
Thelan, Frank A., Kewanee, Ill., assignor to A. Mohler, Kewanee, Ill. Bottle-filling device. No. 995,927; June 20; Sp. p. 4004; Gaz. vol. 167; p. 696.
Thele, Walter, Hamburg, Germany. Self-acting tipping vessel with traveling carriage. No. 986,325; Mar. 7; Sp. p. 1182; Gaz. vol. 164; p. 191.
Thelen, Arnold J., St. Johns, Mich. Signal device. No. 1,007,751; Nov. 7; Sp. p. 224; Gaz. vol. 172; p. 35.
Thelen, Frank A., assignor to A. Mohler, Kewanee, Ill. Machine for capping bottles. No. 981,817; Jan. 17; Sp. p. 3663; Gaz. vol. 162; p. 619.
Thelen, Jacob J., Schenectady, N. Y. Rail-joint. No. 1,005,670; Oct. 10; Sp. p. 2425; Gaz. vol. 171; p. 417.
Thelitz, Franz, Hennef-on-the-Sieg, Germany. Centrifugal separator for purifying oils. No. 1,002,471; Sept. 5; Sp. p. 659; Gaz. vol. 170; p. 95.
Theo. Smith Manufacturing Company. (See Smith, Theodore, assignor.)
Theobald, William M., Cleveland, Ohio. Heating and rolling bars. No. 1,005,361; Oct. 10; Sp. p. 1730; Gaz. vol. 171; p. 308.
Therens, Paul S., Regina, Saskatchewan, Canada, assignor to International Harvester Company. Tandem draft connection for harvesters. No. 1,007,254; Oct. 31; Sp. p. 5960; Gaz. vol. 171; p. 1087.
Theriault, Epiphane, Taunton, Mass. Spoon-cover. No. 1,002,094; Aug. 29; Sp. p. 6177; Gaz. vol. 169; p. 1117.
Thermolac Manufacturing Company. (See Maynard, Harlan J., assignor.)
Thew Automatic Shovel Company, The. (See Harris, Hollis H., assignor.)
Thew Manufacturing Company, The. (See Harris, Hollis H., assignor.)
Thexton, Henry A., Minneapolis, assignor to G. W. Hughes, St. Paul, Minn. Autographic register. No. 980,702; Jan. 3; Sp. p. 1133; Gaz. vol. 162; p. 181.
Thibault, Arthuer H., Seattle, Wash. Pneumatic-spoke wheel. No. 1,007,901; Nov. 7; Sp. p. 575; Gaz. vol. 172; p. 89.
Thibault, Magloire, and M. Samwold; said Samwold assignor of one-third to H. J. May, Ottawa, Ontario, Canada. Air-engine plant. No. 1,002,943; Sept. 12; Sp. p. 1715; Gaz. vol. 170; p. 296.
Thibodeau, Charles, Cambridge, assignor to American Circular Loom Company, Boston, Mass. Process and apparatus for insulating electric conduits. No. 1,008,572; Nov. 14; Sp. p. 2145; Gaz. vol. 172; p. 365.
Thiébaut, Camille, Paris, France. Machine for manufacturing corrugated papers or cardboards. No. 990,080; Apr. 18; Sp. p. 3813; Gaz. vol. 165; p. 661.
Thiel, Martin A., Mount Vernon, Ohio. Piston-rod packing. No. 1,003,162; Sept. 12; Sp. p. 2150; Gaz. vol. 170; p. 369.
Thiel, Rudolf, Lübeck, Germany. Radiator. No. 982,163; Jan. 17; Sp. p. 4400; Gaz. vol. 162; p. 737.
Thielbar, William A., Morton, Ill. Cylinder-bar for threshing-machines. No. 1,010,201; Nov. 28; Sp. p. 5604; Gaz. vol. 172; p. 1004.
Thielbeule, Otto, assignor to Gas-Laternenfernzuendung System Dr. Rostin G. M. B. H., Berlin, Germany. Gas-igniter. No. 997,341; July 11; Sp. p. 1574; Gaz. vol. 168; p. 285.
Thiele, Albrecht. (See Dohrn and Thiele.)
Thiele, Johannes, Friedenau, near Berlin, assignor to Siemens-Schuckert Werke G. m. b. H., Berlin, Germany. Percussion-tool. No. 1,001,707; Aug. 29; Sp. p. 5362; Gaz. vol. 169; p. 988.
Thiele, Ludwig, Holland, Mich. Apparatus for manufacturing glue. No. 989,826; Apr. 18; Sp. p. 3299; Gaz. vol. 165; p. 576.
Thiellmann, Ernest A., Almorah Crescent, Jersey, England. Knife-sharpener. No. 993,734; May 30; Sp. p. 6262; Gaz. vol. 166; p. 1130.
Thiem, Edward A., assignor of one-fourth to E. G. Walton, Minneapolis, Minn. Transmission mechanism. No. 992,083; May 9; Sp. p. 2632; Gaz. vol. 166; p. 468.
Thiem, Louis, Toledo, Ohio. Automatic cistern-cleaning apparatus. No. 989,827; Apr. 18; Sp. p. 3301; Gaz. vol. 165; p. 576.
Thieme, Andrew H., Hebron, Nebr. Animal-yoke. No. 987,025; Mar. 14; Sp. p. 2656; Gaz. vol. 164; p. 459.
Thieme, George. (See Martin, Frank J., assignor.)
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Platen-release for type-writing machines. No. 985,713; Feb. 28; Sp. p. 5361; Gaz. vol. 163; p. 939.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Full-stroke mechanism for calculating-machines. No. 995,816; June 20; Sp. p. 3774; Gaz. vol. 167; p. 658.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Ribbon-reverse for type-writing machines. No. 996,164; June 27; Sp. p. 4491; Gaz. vol. 167; p. 812.
Thieme, Otto, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Marginal release for type-writing machines. No. 996,539; June 27; Sp. p. 5363; Gaz. vol. 167; p. 938.
Thiemer, William H., assignor to The Winton Motor Carriage Company, Cleveland, Ohio. Broaching-machine. No. 988,154; Mar. 28; Sp. p. 5110; Gaz. vol. 164; p. 906.
Thien, Frank P., Chicago, Ill. Baking-pan. No. 981,717; Jan. 17; Sp. p. 3441; Gaz. vol. 162; p. 583.
Thien, Frank P., Chicago, Ill., assignor, by mesne assignments, to Lockwood Manufacturing Company, Cincinnati, Ohio. Baking-pan. (Reissue.) No. 13,327; Nov. 28; Sp. p. 6055; Gaz. vol. 172; p. 1074.
Thierry, Charles, Paris, France, and J. Thomson, New York, N. Y. Method of and apparatus for condensing zinc vapor to liquid metal. No. 994,889; June 13; Sp. p. 1764; Gaz. vol. 167; p. 311.
Thilo, Walter, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Projectile for hand-firearms. No. 995,928; June 30; Sp. p. 4006; Gaz. vol. 167; p. 696.
Thim, Carl J., Logan, Utah. Runner attachment for wheels. No. 983,324; Feb. 7; Sp. p. 145; Gaz. vol. 163; p. 26.
Thim, Carl J., Logan, Utah. Peen-hammer. No. 983,325; Feb. 7; Sp. p. 145; Gaz. vol. 163; p. 26.

Alphabetical list of patentees—Continued.

Thiollier, Jean V. E., Paris, France. Process of and means for securing threaded bolts in wood and the like. No. 1,011,392; Dec. 12; Sp. p. 2234; Gaz. vol. 173; p. 381.
Thiry, Oden F., *et al.* (See Bremer, Russell H., assignor.)
Thissen, Jacob, Bangor, Pa. Resilient tire. No. 996,299; June 27; Sp. p. 4830; Gaz. vol. 167; p. 856.
Thoellden, Anton E. H. J., New Haven, Conn. Intermittent driving mechanism. No. 987,509; Mar. 21; Sp. p. 3685; Gaz. vol. 164; p. 658.
Thoen, John C., Burke, Idaho. Vehicle-wheel. No. 1,004,501; Sept. 26; Sp. p. 5075; Gaz. vol. 170; p. 893.
Tholen, John B. (See Cardwell and Tholen.)
Tholl, John N., Cassia county, Idaho. Wheeled plow. No. 997,102; July 4; Sp. p. 1069; Gaz. vol. 168; p. 172.
Thom, George L., Washington, D. C. Transposing device for player-pianos. No. 1,010,983; Dec. 5; Sp. p. 1285; Gaz. vol. 173; p. 204.
Thom, Peter R., Appleton, assignor of one-half to Kimberly-Clark Company, Neenah, Wis. Couch-roll mechanism for paper-machines. No. 983,326; Feb. 7; Sp. p. 146; Gaz. vol. 163; p. 26.
Thom, Thomas M., Cheshunt, and H. Pryor, Hempstead Saffron Walden, England. Retort-furnace. No. 995,268; June 13; Sp. p. 2530; Gaz. vol. 167; p. 437.
Thoma, Andrew, Cambridge, assignor to Plymouth Rubber Company, Stoughton, Mass. Treating adhesive-coated fabric. No. 983,327; Feb. 7; Sp. p. 149; Gaz. vol. 163; p. 26.
Thoma, Andrew, Cambridge, assignor to Plymouth Rubber Company, Stoughton, Mass. Apparatus for treating adhesive-coated fabric. No 986,032; Mar. 7; Sp. p. 595; Gaz. vol. 164; p. 96.
Thoma, Andrew, Cambridge, Mass., assignor to Thoma Corporation, Portland, Me. Method and apparatus for handling coated reinforcing fabric. (Reissue.) No. 13,213; Feb. 21; Sp. p. 3982; Gaz. vol. 163; p. 705.
Thoma, Andrew, Cambridge, Mass., assignor to Thoma Corporation, Portland, Me. Apparatus for cementing flat pieces of leather. No. 1,005,486; Oct. 10; Sp. p. 1993; Gaz. vol. 171; p. 351.
Thoma Corporation. (See Thoma, Andrew, assignor.) (Reissue.)
Thoma, Henry J., *et al.* (See Schirra, Julius, assignor.)
Thoman, Anthony B., and P. H. Slamin, assignors to The Empire Tire Company, Trenton, N. J. Tire. No. 985,302; Feb. 28; Sp. p. 4440; Gaz. vol. 163; p. 798.
Thomann, Clara, Paris, France. Pocket. No. 1,007,505; Oct. 31; Sp. p. 6496; Gaz. vol. 171; p. 1175.
Thomann, Eduard, Zurich, Switzerland. Making a dense stable composition containing alkali peroxid. No. 1,000,701; Aug. 15; Sp. p. 3213; Gaz. vol. 169; p. 581.
Thomas, Abraham L. (See Krech and Hansen, assignors.)
Thomas, Albert H., assignor to G. B. Swope, Springfield, Ohio. Gas-engine. No. 1,009,353; Nov. 21; Sp. p. 3859; Gaz. vol. 172; p. 671.
Thomas, Albert H., assignor of one-third to G. M. Smith and one-third to C. W. Foster, Springfield, Ohio. Speed-regulator for gas-engines. No. 1,005,362; Oct. 10; Sp. p. 1733; Gaz. vol. 171; p. 309.
Thomas, Almer B., Hardwick, Vt. Wind-shield for automobiles. No. 999,350; Aug. 1; Sp. p. 307; Gaz. vol. 169; p. 55.
Thomas, Andrew, Jr., Ashland, Ky. Accenting device. No. 1,012,932; Dec. 26; Sp. p. 5660; Gaz. vol. 173; p. 994.
Thomas, Anthony H., Jr., Atlanta, Ga. Cuspidor. No. 998,933; July 25; Sp. p. 5108; Gaz. vol. 168; p. 916.
Thomas, Arvine N., Canton, Ohio. Embroidery-hoop. No. 998,657; July 25; Sp. p. 4483; Gaz. vol. 168; p. 818.
Thomas, Asa M. (See Thomas, Howard A. and A. M.)
Thomas, Augustus, Hollywood, Cal. Detachable leg for ladders. No. 1,008,931; Nov. 14; Sp. p. 2897; Gaz. vol. 172; p. 486.
Thomas, Bradford A., San Francisco, Cal. Monkey-wrench. No. 1,009,938; Nov. 28; Sp. p. 5065; Gaz. vol. 172; p. 914.
Thomas, Carl C., Ithaca, N. Y. Steam-boiler. No. 991,562; May 9; Sp. p. 1581; Gaz. vol. 166; p. 292.
Thomas, Charles E., assignor of one-half to F. C. McKay, Dallas, Tex. Spring-trip-foot-adjusting device. No. 987,604; Mar. 21; Sp. p. 3871; Gaz. vol. 164; p. 689.
Thomas, Charles L., Canisteo, N. Y. Means for operating the gasolene-tank valves of motor-cars. No. 1,012,933; Dec. 26; Sp. p. 5663; Gaz. vol. 173; p. 994.
Thomas, Charles W., Lindenwold, N. J. Furnace. No. 989,443; Apr. 11; Sp. p. 2434; Gaz. vol. 165; p. 411.
Thomas, Charles W., Lindenwold, N. J. Charging-tool. No. 989,444; Apr. 11; Sp. p. 2437; Gaz. vol. 165; p. 412.
Thomas, Charles W., Collingswood, N. J., and F. B. Riley, Flemington, W. Va. Charging-tool. No. 989,445; Apr. 11; Sp. p. 2438; Gaz. vol. 165; p. 412.
Thomas, David C., Bronwydd, Llanishen, England. Tire. No. 991,563; May 9; Sp. p. 1586; Gaz. vol. 166; p. 292.
Thomas, Edwin L., Buffalo, N. Y. Explosion-engine. No. 991,670; May 9; Sp. p. 1825; Gaz. vol. 166; p. 331.
Thomas, Elmer A., Red Cloud, Nebr. Seat. No. 990,315; Apr. 25; Sp. p. 4366; Gaz. vol. 165; p. 773.
Thomas, Frank C. (See Spencer and Thomas.) (Reissue.)
Thomas, Franklin D., Saginaw, Mich. Rotary gas-engine. No. 987,929; Mar. 28; Sp. p. 4622; Gaz. vol. 164; p. 830.
Thomas, Frederick, London, England. Apparatus for removing dies, heads, and the like from stamp-batteries for crushing or milling ores. No. 993,473; May 30; Sp. p. 5674; Gaz. vol. 166; p. 1038.
Thomas, George B. (See Anderson and Thomas.)
Thomas, George B. (See Seeley and Thomas.)
Thomas, George B., assignor to The Perkins Electric Switch Mfg. Company, Bridgeport, Conn. Rotary snap-switch. No. 982,549; Jan. 24; Sp. p. 5236; Gaz. vol. 162; p. 903.
Thomas, George B., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric switch. No. 1,003,954; Sept. 19; Sp. p. 3872; Gaz. vol. 170; p. 679.
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp socket. No. 987,414; Mar. 21; Sp. p. 3501; Gaz. vol. 164; p. 625.
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-lamp socket. No. 1,010,985; Dec. 5; Sp. p. 1287; Gaz. vol. 173; p. 205.
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,012,296; Dec. 19; Sp. p. 4273; Gaz. vol. 173; p. 732.
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,012,297; Dec. 19; Sp. p. 4274; Gaz. vol. 173; p. 733.
Thomas, George B., and F. E. Seeley, assignors to The Bryant Electric Company, Bridgeport, Conn. Attachment-plug. No. 1,010,984; Dec. 5; Sp. p. 1286; Gaz. vol. 173; p. 204.
Thomas, George W., assignor of one-half to J. M. Halbert, Red Oak, Iowa. Loose-leaf binder. No. 1,003,824; Sept. 19; Sp. p. 3553; Gaz. vol. 170; p. 632.
Thomas, Gustav, Los Angeles, Cal. Grading or sorting machine. No. 981,955; Jan. 17; Sp. p. 4005; Gaz. vol. 162; p. 668.
Thomas, Gustav, Lind, Wash. Weeder. No. 983,952; Feb. 14; Sp. p. 1521; Gaz. vol. 163; p. 267.
Thomas, Gustav, Lind, Wash. Weeder. No. 997,640; July 11; Sp. p. 2179; Gaz. vol. 168; p. 386.
Thomas, Henry J., *et al.* (See Schirra, Julius, assignor.)
Thomas, Henry O., St. Louis, Mo. Mop and wringer. No. 1,011,525; Dec. 12; Sp. p. 2534; Gaz. vol. 173; p. 430.
Thomas, Horace T., assignor to Reo Motor Car Company, Lansing, Mich. Control mechanism for change-speed gearing. No. 1,002,188; Aug. 29; Sp. p. 6346; Gaz. vol. 169; p. 1147.
Thomas, Howard A. and A. M., Driscoll, N. D. Well-drilling machine. No. 1,000,459; Aug. 15; Sp. p. 2658; Gaz. vol. 169; p. 493.
Thomas, Howard W., Charleroi, Pa. Hose-coupling. No. 987,026; Mar. 14; Sp. p. 2657; Gaz. vol. 164; p. 459.
Thomas, Isaac D. (See Harrison, William H., assignor.)
Thomas, James, Joliet, Ill. Rail-splice. No. 982,900; Jan. 31; Sp. p. 5983; Gaz. vol. 162; p. 1049.
Thomas, James J., Whiting, Iowa. Shoe-lacer. No. 991,251; May 2; Sp. p. 904; Gaz. vol. 166; p. 153.
Thomas, James J., Liverpool, England. Point-controlling mechanism for tramways and the like. No. 997,871; July 11; Sp. p. 2719; Gaz. vol. 168; p. 466.
Thomas, John A., assignor of one-half to S. A. Weller, Zanesville, Ohio. Chemical-engine. No. 983,006; Jan. 31; Sp. p. 6217; Gaz. vol. 162; p. 1083.
Thomas, John A., assignor of one-half to S. A. Weller, Zanesville, Ohio. Conveyer and mixer. No. 998,048; July 18; Sp. p. 3135; Gaz. vol. 168; p. 570.
Thomas, John A., assignor of one-half to S. A. Weller, Zanesville, Ohio. Chemical-engine. (Reissue.) No. 13,288; Aug. 29; Sp. p. 6411; Gaz. vol. 169; p. 1156.
Thomas, John G. P., Chiswick, England. Electrical controller. No. 1,005,084; Oct. 3; Sp. p. 1096; Gaz. vol. 171; p. 185.
Thomas, John R., Wilkes-Barre, Pa. Abrasive tool. No. 1,012,479; Dec. 19; Sp. p. 4616; Gaz. vol. 173; p. 791.
Thomas, John R., assignor to Hall & Brown Woodworking Machine Co., St. Louis, Mo. Blade-truing device. No. 985,473; Feb. 28; Sp. p. 4823; Gaz. vol. 163; p. 857.
Thomas, John R., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Clamping apparatus. No. 985,857; Mar. 7; Sp. p. 205; Gaz. vol. 164; p. 33.
Thomas, John R., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Cutter-head. No. 988,227; Mar. 28; Sp. p. 5244; Gaz. vol. 164; p. 930.
Thomas, John W., Amarillo, Tex. Frog and guard-rail for railway-tracks. No. 994,215; June 6; Sp. p. 239; Gaz. vol. 167; p. 41.
Thomas, Joseph G. (See Hubbard, Charles N., assignor.)
Thomas, Kirby. (See Carpenter, Franklin R. and A. H., assignors.)
Thomas, Louis, Ans, near Liege, Belgium. Coal-cutting machine. No. 993,474; May 30; Sp. p. 5676; Gaz. vol. 166; p. 1038.
Thomas, Lucien M., Strassburg, Germany, assignor to Henry Simon Ltd., Manchester, England. Milling and conditioning flour from wheat. No. 1,010,202; Nov. 28; Sp. p. 5606; Gaz. vol. 172; p. 1004.
Thomas, Luther B., Shreveport, La. Calculator. No. 992,925; May 23; Sp. p. 4493; Gaz. vol. 166; p. 824.

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Thomas, Luther B., Shreveport, La. Dispensing attachment for bins. No. 998,812; July 25; Sp. p. 4834; Gaz. vol. 168; p. 873.
Thomas, Luther B., assignor to National Computing Bin Company, Ltd., Shreveport, La. Combined measuring and dispensing attachment for bins. No. 1,005,363; Oct. 10; Sp. p. 1735; Gaz. vol. 171; p. 309.
Thomas Manufacturing Company, The. (See Pelton, Charles H., assignor.)
Thomas, Marion, Georgetown, Ind. Boring-tool. No. 1,002,787; Sept. 5; Sp. p. 1341; Gaz. vol. 170; p. 203.
Thomas, Martha R., executrix. (See Thomas, Richard H.)
Thomas, Milton C., Mount Pleasant, Iowa. Nut-lock. No. 994,798; June 13; Sp. p. 1526; Gaz. vol. 167; p. 280.
Thomas, Owen W., St. Paul, assignor of one-half to G. F. Kreisel, Hennepin county, Minn. Combination hose coupling and valve. No. 1,000,642; Aug. 15; Sp. p. 3092; Gaz. vol. 169; p. 561.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Means for producing a vacuum. No. 981,141; Jan. 10; Sp. p. 2205; Gaz. vol. 162; p. 363.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Operating means for vapor electric devices. No. 981,229; Jan. 10; Sp. p. 2439; Gaz. vol. 162; p. 395.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Removing deleterious gases. No. 981,497; Jan. 10; Sp. p. 2995; Gaz. vol. 162; p. 487.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Controlling vapor electric apparatus. No. 1,008,391; Nov. 14; Sp. p. 1707; Gaz. vol. 172; p. 301.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Manufacture of vapor electric apparatus. No. 1,009,939; Nov. 28; Sp. p. 5066; Gaz. vol. 172; p. 914.
Thomas, Percy H., East Orange, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Electric switch. No. 1,012,753; Dec. 26; Sp. p. 5208; Gaz. vol. 173; p. 933.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Operating vapor electric devices. No. 981,328; Jan. 10; Sp. p. 2637; Gaz. vol. 162; p. 429.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Vacuum apparatus. No. 981,498; Jan. 10; Sp. p. 2997; Gaz. vol. 162; p. 488.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Means for starting vapor-converters in series. No. 984,248; Feb. 14; Sp. p. 2166; Gaz. vol. 163; p. 367.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Vapor-converter and controlling device therefor. No. 1,004,106; Sept. 26; Sp. p. 4261; Gaz. vol. 170; p. 759.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company, New York, N. Y. Vapor electric lamp. No. 1,008,998; Nov. 14; Sp. p. 3055; Gaz. vol. 172; p. 508.
Thomas, Percy H., Montclair, N. J., assignor to Cooper Hewitt Electric Company. Controlling vapor electric devices. No. 1,009,025; Nov. 14; Sp. p. 3116; Gaz. vol. 172; p. 518.
Thomas, Perry, Silverton, Tex. Well-bucket. No. 997,476; July 11; Sp. p. 1815; Gaz. vol. 168; p. 328.
Thomas, Richard H., deceased; M. R. Thomas, executrix, assignor to Richard H. Thomas, Inc., New York, N. Y. Gas-regulator. No. 1,013,083; Dec. 26; Sp. p. 5978; Gaz. vol. 173; p. 1046.
Thomas, Rufus Y., New Albany, Ind., assignor to The Computing Scale Company, Dayton, Ohio. Recording weighing-scale. No. 1,011,273; Dec. 12; Sp. p. 1984; Gaz. vol. 173; p. 340.
Thomas, Samuel B., Manchester, N. H. Frying-pan cover. No. 984,318; Feb. 14; Sp. p. 2317; Gaz. vol. 163; p. 392.
Thomas, Samuel B., Manchester, N. H. Top-fastener. No. 984,319; Feb. 14; Sp. p. 2318; Gaz. vol. 163; p. 392.
Thomas, Steve. (See Szabados, Antony, assignor.)
Thomas, Theodore G., Houston, Tex. Smoothing-iron. No. 1,010,092; Nov. 28; Sp. p. 5402; Gaz. vol. 172; p. 968.
Thomas, Victor W., assignor to C. Miller, Chicago, Ill. Ice-boat for horses. No. 984,617; Feb. 21; Sp. p. 2979; Gaz. vol. 163; p. 528.
Thomas, W. E. (See Stanley, Ollie, assignor.)
Thomas W. Pangborn Company, The. (See Hull, Foster J., assignor.)
Thomas, Walter B., Chicago, Ill. Safety attachment for elevators. No. 995,500; June 20; Sp. p. 3057; Gaz. vol. 167; p. 545.
Thomas, Walter B., Chicago, Ill. Safety attachment for elevators. No. 1,002,881; Sept. 12; Sp. p. 1580; Gaz. vol. 170; p. 274.
Thomas, Wesley A., assignor of one-third to C. L. Clancy and one-third to J. P. Pelegrin, Memphis, Tenn. Safety device for jointing-machines. No. 982,105; Jan. 17; Sp. p. 4305; Gaz. vol. 162; p. 718.
Thomas, William, Booneville, Ark. Wrench. No. 996,683; July 4; Sp. p. 170; Gaz. vol. 168; p. 30.
Thomas, William C., Odessa, Del. Planter. No. 990,081; Apr. 18; Sp. p. 3815; Gaz. vol. 165; p. 661.
Thomas, William D., Langhorne, Pa. Eyeglass-guard. No. 994,346; June 6; Sp. p. 500; Gaz. vol. 167; p. 86.
Thomas, William F., *et al.* (See Miller, Robert I., assignor.)
Thomas, William H., Whittier, Cal. Automatic latch-and-knob-locking latch-lock. No. 995,640; June 20; Sp. p. 3382; Gaz. vol. 167; p. 596.
Thomas, William H., Whittier, Cal. Consolidated latch and dead bolt lock. No. 1,009,600; Nov. 21; Sp. p. 4384; Gaz. vol. 172; p. 755.
Thomas, William H., and R. C. Thompson, McCrory, Ark. Rail tie and fastener. No. 988,408; Apr. 4; Sp. p. 257; Gaz. vol. 165; p. 41.
Thomas, William N., Marion, Ala. Antirattler and thill-support. No. 981,142; Jan. 10; Sp. p. 2207; Gaz. vol. 162; p. 363.
Thomas, William N., Liberty, Mo. Self-soaping device for washboards. No. 1,009,601; Nov. 21; Sp. p. 4389; Gaz. vol. 172; p. 756.
Thomas, William R. (See Hazelrigg, Ross, assignor.)
Thomas, William S., Renovo, Pa. Brake-shoe. No. 1,004,218; Sept. 26; Sp. p. 4507; Gaz. vol. 170; p. 797.
Thomas, William T., Glenside, and H. T. Paiste, assignors to The H. T. Paiste Company, Inc., Philadelphia, Pa. Adjustable outlet for electrical apparatus. No. 995,203; June 13; Sp. p. 2392; Gaz. vol. 167; p. 415.
Thomas, William W. (See Porter and Thomas.)
Thomas, Willie O., assignor to Owen Thomas Motor Car Company, Janesville, Wis. Buffer mechanism. No. 1,003,015; Sept. 12; Sp. p. 1546; Gaz. vol. 170; p. 319.
Thomaschewski, Paul. (See Unger and Thomaschewski.)
Thomaschewski, Paul, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 993,735; May 30; Sp. p. 6264; Gaz. vol. 166; p. 1131.
Thomaschewski, Paul, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 993,736; May 30; Sp. p. 6265; Gaz. vol. 166; p. 1131.
Thomaschewski, Paul, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Layer & Co., Elberfeld, Germany. Violet wool-dye. No. 1,004,107; Sept. 26; Sp. p. 4263; Gaz. vol. 170; p. 760.
Thomaschewski, Paul, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Vat dye. No. 1,010,463; Dec. 5; Sp. p. 128; Gaz. vol. 173; p. 24.
Thomaschewski, Paul, H. Raeder, Vohwinkel, W. Mieg and P. Fischer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellowish-red vat dye. No. 986,521; Mar. 14; Sp. p. 1625; Gaz. vol. 164; p. 289.
Thomaschewski, Paul, H. Raeder, Vohwinkel, W. Mieg and P. Fischer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Brown vat dye. (Reissue.) No. 13,257; June 13; Sp. p. 2917; Gaz. vol. 167; p. 492.
Thomason, Elmer O., assignor to Kellar-Thomason Manufacturing Company, Covina, Cal. Flume-gate. No. 992,293; May 16; Sp. p. 3138; Gaz. vol. 166; p. 571.
Thomassin, Francis A., Streatham, England. Device for indicating variations in synchronous running of kinematographs and gramophones. No. 1,001,091; Aug. 22; Sp. p. 4099; Gaz. vol. 169; p. 751.
Thomasson, Julius F., *et al.* (See Hills, Leon P., assignor.)
Thomlinson, Thomas D. (See Thomlinson, William R. and T. D.)
Thomlinson, William R. and T. D., Liverpool, England. Hat-pin guard or protector. No. 986,874; Mar. 14; Sp. p. 2376; Gaz. vol. 164; p. 411.
Thompson, Abraham D., and W. Morlok, Philadelphia, Pa. Hedge-trimmer. No. 997,218; July 4; Sp. p. 1305; Gaz. vol. 168; p. 212.
Thompson, Alanson C., assignor of one-half to G. E. Cox, Monmouth, Ill. Rod-packing. No. 1,011,671; Dec. 12; Sp. p. 2889; Gaz. vol. 173; p. 482.
Thompson, Albert W., Manchester, N. H., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Wire-cloth apron. No. 987,415; Mar. 21; Sp. p. 3501; Gaz. vol. 164; p. 626.
Thompson, Alfred, Erie, Pa. Constructing images and hollow articles. No. 983,582; Feb. 7; Sp. p. 716; Gaz. vol. 163; p. 111.
Thompson, Alvin C. (See Myers, Absalom G., assignor.)
Thompson, Cassius M., Stoneham, assignor, by mesne assignments, to C. P. Warren, trustee, Boston, Mass. Shoemaker's light. No. 991,391; May 2; Sp. p. 1209; Gaz. vol. 166; p. 201.
Thompson, Charles, *et al.* (See Crecelius, Louis J., assignor.)
Thompson, Charles A., Relay, and D. Pierce, Elkridge, Md. Signal-lantern. No. 994,890; June 13; Sp. p. 1769; Gaz. vol. 167; p. 312.
Thompson, Charles J., assignor of one-half to E. E. Kellogg, Panora, Iowa. Plow-jack. No. 988,228; Mar. 28; Sp. p. 5247; Gaz. vol. 164; p. 931.
Thompson, Clara G., Winchester, Ind. Type-writer. No. 1,004,108; Sept. 26; Sp. p. 4264; Gaz. vol. 170; p. 760.

Thompson, Clayton, and C. W. Newton, Des Moines, Iowa. Adding-machine. No. 982,901; Jan. 31; Sp. p. 5986; Gaz. vol. 162; p. 1049.
Thompson, Clement B., assignor of one-half to W. A. Russell, Los Angeles, Cal. Well shut-off. No. 991,392; May 2; Sp. p. 1211; Gaz. vol. 166; p. 201.
Thompson, David D., assignor of one-half to C. L. Faber and one-half to J. G. Coats, Fort Pierce, Fla. Clamping device. No. 997,103; July 4; Sp. p. 1070; Gaz. vol. 168; p. 173.
Thompson, Earl, Syracuse, N. Y. Loose-leaf tablet. No. 991,393; May 2; Sp. p. 1212; Gaz. vol. 166; p. 202.
Thompson, Earl, Syracuse, assignor, by mesne assignments, to Adjustable Tablet Company, Petersburg, N. Y. Loose-leaf binder. No. 983,007; Jan. 31; Sp. p. 6219; Gaz. vol. 162; p. 1084.
Thompson, Erwin W., Charlotte, N. C., assignor to The Southern Cotton Oil Company, Jersey City, N. J. Cotton filling for comforts and the like. No. 1,009,806; Nov. 28; Sp. p. 4809; Gaz. vol. 172; p. 871.
Thompson, Everett L., Bensonhurst, N. Y. Automatic sprinkler system. No. 998,934; July 25; Sp. p. 5109; Gaz. vol. 168; p. 916.
Thompson, Evert W., Niles, Mich. Iron or nosing for concrete-work. No. 1,011,274; Dec. 12; Sp. p. 1986; Gaz. vol. 173; p. 341.
Thompson, F. A., *et al.* (See Sterick, Charles W., assignor.)
Thompson, Firman, Newark, Del. Obtaining potash salts from feldspar. No. 995,105; June 13; Sp. p. 2210; Gaz. vol. 167; p. 384.
Thompson, Frank, Chicago, Ill. Refrigerator-car. No. 993,909; May 30; Sp. p. 6591; Gaz. vol. 166; p. 1188.
Thompson, Fred W. (See Lawson and Snell, assignors.)
Thompson, Frederick S. (See Greenleaf and Thompson.)
Thompson, Fredrick B., assignor to National Waterproof Film Company, Chicago, Ill. Picture-film. No. 987,092; Mar. 14; Sp. p. 2776; Gaz. vol. 164; p. 480.
Thompson, George G., assignor to American Electric Fuse Company, Muskegon, Mich. Motor-starter or electric-circuit controller. No. 992,294; May 16; Sp. p. 3140; Gaz. vol. 166; p. 572.
Thompson, George G., assignor to American Electric Fuse Co., Muskegon, Mich. Electric-current controller. No. 993,475; May 30; Sp. p. 5678; Gaz. vol. 166; p. 1039.
Thompson, George O., Minneapolis, Minn. Ball-cock. No. 1,012,029; Dec. 19; Sp. p. 3681; Gaz. vol. 173; p. 641.
Thompson, George S., Hockessin, Del., assignor to The Flexible Bolt Company. Stay-bolt. No. 1,004,937; Oct. 3; Sp. p. 839; Gaz. vol. 171; p. 137.
Thompson, George S., Hopkinton, Mass., and R. Netter, assignors of seven twenty-fourths to F. I. Eldridge, one-third to W. M. Kingsley, New York, N. Y., and five twenty-fourths to W. A. Fuller, Clinton, Mass. Engine-starting apparatus for automobiles. No. 987,930; Mar. 28; Sp. p. 4629; Gaz. vol. 164; p. 831.
Thompson, George W., Kingston, Okla. Aeroplane. No. 1,010,986; Dec. 5; Sp. p. 1288; Gaz. vol. 173; p. 205.
Thompson, Gordon D., Detroit, Mich. Printing mechanism. No. 1,010,093; Nov. 28; Sp. p. 5403; Gaz. vol. 172; p. 968.
Thompson, Harry D., and B. G. Jones, Youngstown, Ohio. Cinder-ladle. No. 985,227; Feb. 28; Sp. p. 4273; Gaz. vol. 163; p. 773.
Thompson, Henry C., Mobile, Ala. Rivet-holder. No. 1,007,821; Nov. 7; Sp. p. 388; Gaz. vol. 172; p. 61.
Thompson, Hiram F., Lexington, Ohio. Irrigating device for trees. No. 1,010,819; Dec. 5; Sp. p. 923; Gaz. vol. 173; p. 145.
Thompson, Jacob M., Fond du Lac, Wis. Mold for refrigerator-linings and other purposes. No. 1,005,364; Oct. 10; Sp. p. 1737; Gaz. vol. 171; p. 310.
Thompson, James, Greeley, Colo. Potato-sorter. No. 996,165; June 27; Sp. p. 4494; Gaz. vol. 167; p. 812.
Thompson, James, Greeley, Colo. Bag-holder. No. 999,910; Aug. 8; Sp. p. 1438; Gaz. vol. 169; p. 273.
Thompson, James A., and E. M. Mackie, Franklin, Pa., assignors to Chicago Pneumatic Tool Company, Chicago, Ill. Rock-drill. No. 1,000,130; Aug. 8; Sp. p. 1943; Gaz. vol. 169; p. 349.
Thompson, James H. (See Graham, Michael J., assignor.)
Thompson, James H., Trenton, N. J. Identification device. No. 997,342; July 11; Sp. p. 1577; Gaz. vol. 168; p. 285.
Thompson, James M. (See Thompson, Walter, assignor.)
Thompson, James M., Milwaukee, Wis. Grinding-machine. No. 994,216; June 6; Sp. p. 240; Gaz. vol. 167; p. 41.
Thompson, James M., assignor to Luther Bros. Co., Milwaukee, Wis. Gear-casing. No. 1,006,026; Oct. 17; Sp. p. 3189; Gaz. vol. 171; p. 572.
Thompson, James V. (See Summers and Thompson.)
Thompson, James W., Harlingen, Tex. Hand-transplanter. No. 1,007,752; Nov. 7; Sp. p. 227; Gaz. vol. 172; p. 36.
Thompson, James W., and J. F., Hathaway, Harlingen, Tex. Water-elevator. No. 1,002,742; Sept 5; Sp. p. 660; Gaz. vol. 170; p. 95.
Thompson, Jefferson D., Washington, D. C. Skylight construction. No. 1,004,938; Oct. 3; Sp. p. 841; Gaz. vol. 171; p. 137.
Thompson, Jesse M., Chicago, Ill. Condenser. No. 999,417; Aug. 1; Sp. p. 444; Gaz. vol. 169; p. 78.
Thompson, Jesse M., Chicago, Ill. Condenser. No. 999,418; Aug. 1; Sp. p. 446; Gaz. vol. 169; p. 79.
Thompson, John, assignor of one-half to H. S. Sindle, Little Falls, N. J. Means for bracing the walls of furnaces. No. 990,928; May 2; Sp. p. 215; Gaz. vol. 166; p. 38.
Thompson, John, assignor of one-half to H. S. Sindle, Little Falls, N. J. Means for feeding water to boilers. No. 996,812; July 4; Sp. p. 431; Gaz. vol. 168; p. 72.
Thompson, John A., assignor to Taylor Instrument Companies, Rochester, N. Y. Hygrometer. No. 998,049; July 18; Sp. p. 3136; Gaz. vol. 168; p. 571.
Thompson, John B., Arlberg, Ark. Brooder. No. 988,747; Apr. 4; Sp. p. 982; Gaz. vol. 165; p. 156.
Thompson, John D., Bozeman, Mont. Bottle opener and closer. No. 987,268; Mar. 21; Sp. p. 3194; Gaz. vol. 164; p. 577.
Thompson, Joseph F., Marietta, Ohio. Elevator for well-casings. No. 1,003,546; Sept. 19; Sp. p. 2952; Gaz. vol. 170; p. 538.
Thompson, Louis W. (See Gardner, Frederick N. and F. E., assignors.)
Thompson, Love C., Canon City, Colo. Shaving-case. No. 1,008,754; Nov. 14; Sp. p. 2542; Gaz. vol. 172; p. 428.
Thompson, Martin W., Hammond, Ind. Clutch. No. 1,001,708; Aug. 29; Sp. p. 5363; Gaz. vol. 169; p. 989.
Thompson, Milton D., South Portland, assignor to The Thompson Propeller Company, Portland, Me. Propeller. No. 993,126; May 23; Sp. p. 4935; Gaz. vol. 166; p. 893.
Thompson, Nelson W. (See Peetz, McDanel, and Thompson.)
Thompson, Oliver B., and C. R. Moeller, Buffalo, N. Y. Electric ignition system for explosion-engines. No. 987,188; Mar. 21; Sp. p. 3019; Gaz. vol. 164; p. 548.
Thompson, Oscar S., Dallas, Tex. Revolving bag-holder. No. 986,104; Mar. 7; Sp. p. 737; Gaz. vol. 164; p. 119.
Thompson Propeller Company, The. (See Thompson, Milton D., assignor.)
Thompson, Ralph P. (See Koeb and Thompson.)
Thompson, Ralph P., Springfield, Ohio. Grinding-machine. No. 989,206; Apr. 11; Sp. p. 1917; Gaz. vol. 165; p. 332.
Thompson, Richard C. (See Thomas and Thompson.)
Thompson, Robert M., Tacoma, Wash. Automatic lateral-balance-controlling device for flying-machines. No. 1,003,670; Sept. 19; Sp. p. 3226; Gaz. vol. 170; p. 582.
Thompson, Thomas, London, England. Pump and valve. No. 1,002,788; Sept. 5; Sp. p. 1342; Gaz. vol. 170; p. 203.
Thompson, Thomas, Danbury, assignor of one-half to J. Smith, Bethel, Conn. Shutter-slat operator. No. 1,006,149; Oct. 17; Sp. p. 3475; Gaz. vol. 171; p. 616.
Thompson, Walter, assignor of one-half to J. M. Thompson, Chester, Pa. Piston-head. No. 1,003,304; Sept. 12; Sp. p. 2452; Gaz. vol. 170; p. 422.
Thompson, Walter M., Granite Falls, Minn. Automatic screen. No. 1,008,499; Nov. 14; Sp. p. 1976; Gaz. vol. 172; p. 338.
Thompson, William, Los Angeles, Cal. Window-screen. No. 987,654; Mar. 21; Sp. p. 3971; Gaz. vol. 164; p. 708.
Thompson, William, New York, N. Y. Foldable bed-spring. No. 989,446; Apr. 11; Sp. p. 2440; Gaz. vol. 165; p. 412.
Thompson, William B., assignor to Acorn Brass Manufacturing Company, Chicago, Ill. Fluid-controlling valve mechanism. No. 1,001,324; Aug. 22; Sp. p. 4580; Gaz. vol. 169; p. 828.
Thompson, William E., assignor of one-half to J. W. Holmes, Rosalie, Tex. Folding bed-spring. No. 985,380; Feb. 28; Sp. p. 4588; Gaz. vol. 163; p. 823.
Thompson, William J., Burlington, N. C. Washing-machine. No. 995,737; June 20; Sp. p. 3591; Gaz. vol. 167; p. 630.
Thompson, William R., and E. E. Case, South Norwalk, Conn., assignors of one-half to J. Tiebout, New York, N. Y. Pump. No. 984,320; Feb. 14; Sp. p. 2319; Gaz. vol. 163; p. 393.
Thompson, William R., and E. E. Case, South Norwalk, Conn., assignors of one-half to J. Tiebout, Brooklyn, N. Y. Compound air-compressor. No. 984,321; Feb. 14; Sp. p. 2320; Gaz. vol. 163; p. 393.
Thompson, Wilson, assignor of one-half to C. V. Ryno, Leslie, Ark. Convertible implement. No. 1,003,383; Sept. 12; Sp. p. 2606; Gaz. vol. 170; p. 448.
Thoms, Frederick. Oakland, Cal. Ratchet mechanism. No. 983,463; Feb. 7; Sp. p. 443; Gaz. vol. 163; p. 71.
Thoms, John C., agent. (See Swan, Harry M., assignor.)
Thoms, William H., and H. W. Dummert, Carleton Place, Ontario, Canada. Journal-bearing. No. 1,011,094; Dec. 5; Sp. p. 1527; Gaz. vol. 173; p. 241.
Thomsen, Herman E., and W. A. Rienhardt, assignors of one-third to R. E. L. Jenkins, Houston, Tex. Cash-fare-slip holder. No. 1,011,393; Dec. 12; Sp. p. 2234; Gaz. vol. 173; p. 381.
Thomsen, Johannes, Chicago, Ill. Vehicle-tire. No. 995,738; June 20; Sp. p. 3593; Gaz. vol. 167; p. 630.
Thomshaw, Micheal A., Vintondale, Pa. Nut-lock. No. 996,540; June 27; Sp. p. 5366; Gaz. vol. 167; p. 939.
Thomson, Alfred J., assignor to H. T. Nelson, Canton, Mass. Collar-supporter. No. 1,005,085; Oct. 3; Sp. p. 1098; Gaz. vol. 171; p. 185.

Alphabetical list of patentees—Continued.

Thomson, Alfred J., Canton, assignor of two-thirds to M. Cohen, Boston, Mass. Spinning-ring. No. 1,009,602; Nov. 21; Sp. p. 4390; Gaz. vol. 172; p. 756.
Thomson, Charles R., Adams, Mass., assignor to Renfrew Manufacturing Company. Printing device for selvage-printing. No. 1,012,480; Dec. 19; Sp. p. 4618; Gaz. vol. 173; p. 792.
Thomson Electric Welding Company. (See Rietzel, Adolph F., assignor.)
Thomson Electric Welding Company. (See Thomson, Elihu, assignor.)
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Incandescent lamp. No. 980,703; Jan. 3; Sp. p. 1134; Gaz. vol. 162; p. 181.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Speed-indicator. No. 993,910; May 30; Sp. p. 6594; Gaz. vol. 166; p. 1188.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Changeable-compression engine. No. 996,378; June 27; Sp. p. 5025; Gaz. vol. 167; p. 885.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Generating high-temperature vapor. No. 997,940; July 11; Sp. p. 2874; Gaz. vol. 168; p. 491.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Vapor electric apparatus. No. 1,001,709; Aug. 29; Sp. p. 5365; Gaz. vol. 169; p. 989.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. System of electrical distribution. No. 1,001,710; Aug. 29; Sp. p. 5366; Gaz. vol. 169; p. 989.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Mercury-vapor device. No. 1,006,805; Oct. 24; Sp. p. 4952; Gaz. vol. 171; p. 877.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric heater. No. 1,008,622; Nov. 14; Sp. p. 2251; Gaz. vol. 172; p. 383.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Make-and-break sparker for internal-combustion engines. No. 1,010,987; Dec. 5; Sp. p. 1290; Gaz. vol. 173; p. 205.
Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Vibrating rectifier. No. 1,011,526; Dec. 12; Sp. p. 2537; Gaz. vol. 173; p. 430.
Thomson, Elihu, Swampscott, assignor, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Electric welding. No. 984,719; Feb. 21; Sp. p. 3200; Gaz. vol. 163; p. 566.
Thomson, Elihu, Swampscott, assignor, by mesne assignments, to Thomson Electric Welding Company, Lynn, Mass. Transformer-secondary. No. 1,003,547; Sept. 19; Sp. p. 2954; Gaz. vol. 170; p. 539.
Thomson, Elihu, Swampscott, assignor to Thomson Electric Welding Company, Lynn, Mass. Electric metal-working apparatus. No. 1,012,934; Dec. 26; Sp. p. 5664; Gaz. vol. 173; p. 995.
Thomson, Elihu, Swampscott, and R. Shand, Lynn, Mass., assignors to General Electric Company. Electric measuring instrument. No. 996,377; June 27; Sp. p. 5022; Gaz. vol. 167; p. 884.
Thomson, Frederick W., Fort William, Ontario, Canada. Dipper-door. No. 986,522; Mar. 14; Sp. p. 1626; Gaz. vol. 164; p. 289.
Thomson, Gilbert J., and R. R. Armstrong, Terre Haute, Ind. Grease-cup. No. 992,825; May 23; Sp. p. 4265; Gaz. vol. 166; p. 787.
Thomson, Henry C., Boston, Mass., assignor to Electric Goods Manufacturing Company. Incased induction-coil. No. 981,718; Jan. 17; Sp. p. 3442; Gaz. vol. 162; p. 583.
Thomson, Henry C., Boston, Mass., assignor to Electric Goods Manufacturing Company. Vibrator-box. No. 1,009,940; Nov. 28; Sp. p. 5069; Gaz. vol. 172; p. 914.
Thomson, Herbert G. (See Roehrich, Frank N., assignor.)
Thomson, Hugh, Collingwood, near Melbourne, Victoria, Australia. Last. No. 993,911; May 30; Sp. p. 6597; Gaz. vol. 166; p. 1189.
Thomson, John. (See Thierry and Thomson.)
Thomson, John, New York, N. Y., assignor to John Thomson Press Company, Jersey City, N. J. Printing-press. No. 980,451; Jan. 3; Sp. p. 584; Gaz. vol. 162; p. 97.
Thomson, John, New York, N. Y., assignor to John Thomson Press Company, Jersey City, N. J. Platen-press. No. 980,452; Jan. 3; Sp. p. 587; Gaz. vol. 162; p. 97.
Thomson, John, New York, N. Y., assignor to John Thomson Press Company, Jersey City, N. J. Printing-press. No. 980,453; Jan. 3; Sp. p. 588; Gaz. vol. 162; p. 97.
Thomson, John, New York, N. Y., assignor to John Thomson Press Company, Jersey City, N. J. Printing-press. No. 980,454; Jan. 3; Sp. p. 590; Gaz. vol. 162; p. 98.
Thomson, John, New York, N. Y., assignor to John Thomson Press Company, Jersey City, N. J. Press. No. 980,455; Jan. 3; Sp. p. 591; Gaz. vol. 162; p. 98.
Thomson, John, New York, N. Y., assignor to John Thomson Press Company, Jersey City N. J. Press. No. 980,456; Jan. 3; Sp. p. 595; Gaz. vol. 162; p. 98.
Thomson, John, New York, N. Y., assignor to John Thomson Press Company, Jersey City, N. J. Brake for printing-presses. No. 985,228; Feb. 28; Sp. p. 4275; Gaz. vol. 163; p. 773.
Thomson, John, assignor to Imbert Process Company, New York, N. Y. Electric furnace. No. 994,217; June 6; Sp. p. 241; Gaz. vol. 167; p. 41.
Thomson, Luther M., St. Louis Park, Minn., assignor of one-half to Advance Thresher Company, Battle Creek, Mich. Attachment for threshing-machines. No. 997,641; July 11; Sp. p. 2180; Gaz. vol. 168; p. 386.
Thomson, Samuel G. (See Thomson, William P. and S. G.)
Thomson-Thomson Company. (See Thomson, William P. and S. G., assignors.)
Thomson, Walter S. (See Veitch, Thomas, assignor.)
Thomson, Walter S., New York, N. Y. Internal-combustion engine. No. 1,009,941; Nov. 28; Sp. p. 5072; Gaz. vol. 172; p. 915.
Thomson, Warren T. (See Schaefer and Thomson.)
Thomson, William I., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Means for driving generators from car-axles. No. 986,656; Mar. 14; Sp. p. 1917; Gaz. vol. 164; p. 338.
Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Rail-joint. No. 985,858; Mar. 7; Sp. p. 207; Gaz. vol. 164; p. 34.
Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Nut-lock. No. 1,004,502; Sept. 26; Sp. p. 5076; Gaz. vol. 170; p. 894.
Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Rail-joint. No. 1,005,583; Oct. 10; Sp. p. 2242; Gaz. vol. 171; p. 386.
Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Splice-bar for rails. No. 1,009,026; Nov. 14; Sp. p. 3119; Gaz. vol. 172; p. 519.
Thomson, William P. and S. G., assignors to Thomson-Thomson Company, Philadelphia, Pa. Rail-joint. No. 1,011,095; Dec. 5; Sp. p. 1529; Gaz. vol. 173; p. 242.
Thomson, William P., Philadelphia, Pa., and S. G. Thomson, Buffalo, N. Y., assignors to Thomson-Thomson Company, Philadelphia, Pa. Splice-bar for rail-joints. No. 986,326; Mar. 7; Sp. p. 1183; Gaz. vol. 164; p. 192.
Thomson, William S., assignor to The H. D. Smith and Company, Plantsville, Conn. Die for forging. No. 1,000,050; Aug. 8; Sp. p. 1717; Gaz. vol. 169; p. 321.
Thomson, William S., assignor to The H. D. Smith and Company, Plantsville, Conn. Screw-driver having adjustable handle. No. 1,000,051; Aug. 8; Sp. p. 1719; Gaz. vol. 169; p. 321.
Thonen, Jacob, *et al.* (See Pierce, Franklin A., assignor.)
Thorburn, James. (See Sayers, Wilson, and Thorburn.)
Thorbus, C. T. (See Parks and Sturdevant, assignors.)
Thordarson, Chester H., Chicago, Ill. Electric switch. No. 1,000,052; Aug. 8; Sp. p. 1720; Gaz. vol. 169; p. 321.
Thordarson, Chester H., assignor to S. J. Gorman, Chicago, Ill. Electromagnetic vibrator. No. 983,657; Feb. 7; Sp. p. 864; Gaz. vol. 163; p. 138.
Thoresen, Johan J., Christiania, and F. Tharaldsen, Meraker, Norway. Method of and apparatus for deviating electric arcs. No. 996,951; July 4; Sp. p. 734; Gaz. vol. 168; p. 120.
Thörl, Friedrich, Harburg-on-the-Elbe, Germany. Preparing starch. No. 990,929; May 2; Sp. p. 217; Gaz. vol. 166; p. 38.
Thormeyer, Franz E., Hamburg, Germany. Device for controlling the operation of two reproducing apparatus. No. 989,207; Apr. 11; Sp. p. 1918; Gaz. vol. 165; p. 332.
Thörn, Folke R. E., assignor to Aktiebolaget Separator, Stockholm, Sweden. Spring-bearing. No. 1,004,939; Oct. 3; Sp. p. 845; Gaz. vol. 171; p. 137.
Thornburg, Samuel A., assignor of one-half to A. J. Fletcher, Frontenac, Kans. Power-hammer. No. 1,007,159; Oct. 31; Sp. p. 5754; Gaz. vol. 171; p. 1053.
Thornburg, William H., East St. Louis, Ill. Elevating-truck. No. 981,329; Jan. 10; Sp. p. 2638; Gaz. vol. 162; p. 430.
Thornbury, Jesse L., Spokane, Wash. Foot-protector. No. 1,000,643; Aug. 15; Sp. p. 3094; Gaz. vol. 169; p. 561.
Thorne, Frank D., *et al.* (See Johnson, Edwin E., assignor.)
Thorne, John, Bootle, England. Cooking utensil. No. 987,510; Mar. 21; Sp. p. 3688; Gaz. vol. 164; p. 658.
Thorne, Thomas B. H. (See Bendle, Smith, and Thorne.)
Thorne, Thomas H., Vancouver, British Columbia, Canada. Cigarette-box. No. 985,859; Mar. 7; Sp. p. 209; Gaz. vol. 164; p. 34.
Thorne, Walter L., Cincinnati, Ohio. Display apparatus. No. 1,007,753; Nov. 7; Sp. p. 229; Gaz. vol. 172; p. 37.
Thorne, William F., and J. R. I. Hopkins, Winnipeg, Manitoba, Canada. Attachment for shocking-machines. No. 999,911; Aug. 8; Sp. p. 1439; Gaz. vol. 169; p. 274.
Thorne, William F., and J. R. I. Hopkins, Winnipeg, Manitoba, Canada. Shocking-machine. No. 1,010,464; Dec. 5; Sp. p. 129; Gaz. vol. 173; p. 24.
Thorner, Bernard D., assignor to The Hospital Supply Company, New York, N. Y. Operating-table for use of physicians and surgeons. No. 987,189; Mar. 21; Sp. p. 3022; Gaz. vol. 164; p. 548.
Thorning, Edwin B., Alameda, assignor to W. A. Plummer, San Francisco, Cal. Water-bag. No. 994,287; June 6; Sp. p. 381; Gaz. vol. 167; p. 65.
Thornley, Albert J., assignor to Narragansett Machine Company, Pawtucket, R. I. Lock and latch. No. 987,655; Mar. 21; Sp. p. 3973; Gaz. vol. 164; p. 708.

Alphabetical list of patentees—Continued.

Thornley, Albert J., assignor to Narragansett Machine Company, Pawtucket, R. I. Door for lockers. No. 1,010,326; Nov. 28; Sp. p. 5864; Gaz. vol. 172; p. 1044.
Thornley, William T., assignor of one-half to G. W. Heath, Anderson, Ind. Car-door hanger. No. 984,170; Feb. 14; Sp. p. 1981; Gaz. vol. 163; p. 340.
Thornton, Charles W., Dalhart, assignor of one-tenth to J. L. Williams, Texhoma, Tex. Sanitary cleansing and indicating device for drinking vessels. (Reissue.) No. 13,280; Aug. 8; Sp. p. 2424; Gaz. vol. 169; p. 426.
Thornton, Henry C., Stephenville, Tex. Back-brace. No. 1,008,500; Nov. 14; Sp. p. 1978; Gaz. vol. 172; p. 338.
Thornton, Henry P., Tropico, Cal. Metal-binding-strip machine. No. 991,564; May 9; Sp. p. 1587; Gaz. vol. 166; p. 293.
Thornton, John E., Philadelphia, Pa., assignor to Fireproof Film Company. Photographic developing-tank. No. 981,035; Jan. 10; Sp. p. 1974; Gaz. vol. 162; p. 325.
Thornycroft, John E., Chiswick, England. Liquid-sprayer. No. 982,106; Jan. 17; Sp. p. 4307; Gaz. vol. 162; p. 718.
Thorp, Frederick W. (See Clennell and Thorp.)
Thorp, George G., Chicago, Ill., and E. E. Slick, Pittsburg, Pa. Apparatus for forging axles and similar articles. No. 999,276; Aug. 1; Sp. p. 157; Gaz. vol. 169; p. 30.
Thorp, George H., Yarasloff, Russia. Hot-air drying plant. No. 981,719; Jan. 17; Sp. p. 3445; Gaz. vol. 162; p. 583.
Thorp, Thomas J., Los Angeles, Cal. Farm-automobile. No. 988,287; Mar. 28; Sp. p. 5366; Gaz. vol. 164; p. 950.
Thorp, William, Vancouver, British Columbia, Canada. Sawmill-dog. No. 1,010,820; Dec. 5; Sp. p. 924; Gaz. vol. 173; p. 145.
Thorpe, Dyer P., Detroit, Mich. Carriage-prop pivot. No. 1,000,209; Aug. 8; Sp. p. 2117; Gaz. vol. 169; p. 376.
Thorpe, Mortimer A., New York, N. Y. Sanitary garbage-receptacle. No. 999,912; Aug. 8; Sp. p. 1442; Gaz. vol. 169; p. 274.
Thorpe, Wilfred B., Balham, London, England. Electrolytic apparatus. No. 1,002,882; Sept. 12; Sp. p. 1581; Gaz. vol. 170; p. 274.
Thorpe, Wilfred B., Balham, London, England. Electrolytic device. No. 1,005,671; Oct. 10; Sp. p. 2426; Gaz. vol. 171; p. 417.
Thorpe, Wilfred B., Balham, London, England. Electrolytic apparatus. No. 1,005,672; Oct. 10; Sp. p. 2432; Gaz. vol. 171; p. 418.
Thors, Karl O. S., assignor to A. Karlson, Metall. & Maskin Aktiebolag, Stockholm, Sweden. Feeding device for rotary apparatus. No. 991,183; May 2; Sp. p. 757; Gaz. vol. 166; p. 128.
Thorsby, Karl J., assignor to California Corrugated Culvert Company, Oakland, Cal. Head-gate. No. 994,347; June 6; Sp. p. 501; Gaz. vol. 167; p. 86.
Thorsby, Karl J., assignor to California Corrugated Culvert Company, Oakland, Cal. Metallic culvert. No. 996,166; June 27; Sp. p. 4495; Gaz. vol. 167; p. 812.
Thorsen, Benjamin B. (See Erwin, Jeremiah, assignor.)
Thorsen, Benjamin B., assignor of three-fourths to J. Erwin, Chicago, Ill. Spreader for mucilage and other liquids. No. 1,000,053; Aug. 8; Sp. p. 1724; Gaz. vol. 169; p. 322.
Thorsk, John F., Tacoma, Wash. Flushometer. No. 993,912; May 30; Sp. p. 6598; Gaz. vol. 166; p. 1189.
Thorvig, Albert J. (See Nelson and Thorvig.)
Thos. H. Dallett Co. (See Van Sickel, Wilber H., assignor.)
Thowless, Orlando M., Newark, N. J. Glower for electrical incandescent lamps. No. 982,751; Jan. 24; Sp. p. 5642; Gaz. vol. 162; p. 968.
Thowless, Orlando M., Newark, N. J. Illuminant for electrical incandescent lamps. No. 985,474; Feb. 28; Sp. p. 4825; Gaz. vol. 163; p. 857.
Thrailkill, George W., Kansas City, Mo. Grease-cup. No. 994,429; June 6; Sp. p. 682; Gaz. vol. 167; p. 117.
Thrailkill, M. E., *et al.*, administrators. (See Robinson, Stillman W. and E. G.)
Thrasher, Elmer E., South Cumberland, assignor of one-half to A. J. Weber, Cumberland, Md. Magazine plate-holder. No. 980,704; Jan. 3; Sp. p. 1135; Gaz. vol. 162; p. 182.
Thrasher, Samuel P., Hartford, Conn. Electric signaling apparatus. No. 994,218; June 6; Sp. p. 243; Gaz. vol. 167; p. 42.
Threading Machine Company, The. (See Farnsworth, Hiland R., assignor.)
Threewits, Alvin M., Centerville, Ind. Railway-tie. No. 983,658; Feb. 7; Sp. p. 867; Gaz. vol. 163; p. 138.
Threlkel, Walter O., Newcastle, Cal. Window. No. 981,720; Jan. 17; Sp. p. 3447; Gaz. vol. 162; p. 584.
Thresher, Robert R. (See Le Beau and Thresher.)
Thron, Heinrich, assignor to Vereinigte Chininfabriken Zimmer & Co., G. m. b. H., Frankfort-on-the-Main, Germany. Manufacture of hydrocinchona alkaloids. No. 989,664; Apr. 18; Sp. p. 2943; Gaz. vol. 165; p. 519.
Thropp, Joseph W., Trenton, N. J. Tire-mold. No. 983,785; Feb. 7; Sp. p. 1127; Gaz. vol. 163; p. 180.
Thropp, Peter D. (See De Laski and Thropp.)
Thullen, Louis H., Cincinnati, Ohio, assignor to The Triumph Electric Company. Commutator-short-circuiting device. No. 1,007,902; Nov. 7; Sp. p. 578; Gaz. vol. 172; p. 89.
Thum, Frank, San Francisco, assignor to Pacific Manifolding Book Company, Emeryville, Cal. Restaurant-pay-check holder. No. 988,047; Mar. 28; Sp. p. 4907; Gaz. vol. 164; p. 871.
Thum, Julius, Dresden, Germany. Cleaning and refining coffee-beans. No. 982,902; Jan. 31; Sp. p. 5990; Gaz. vol. 162; p. 1050.
Thum, Martin, and T. Wright, Rochester, N. Y. Display device. No. 1,009,452; Nov. 21; Sp. p. 4101; Gaz. vol. 172; p. 707.
Thumler, Robert K. (See Bedford and Thumler.)
Thun, Ferdinand, and R. C. Rahm, Wyomissing, near Reading, assignors to Textile Machine Works, Wyomissing, Pa. Braiding-machine. No. 1,001,092; Aug. 22; Sp. p. 4101; Gaz. vol. 169; p. 751.
Thurber, Edwin L., and M. Judge, Brooklyn, N. Y. Combined cooking, drying, and conveying machine. No. 989,447; Apr. 11; Sp. p. 2441; Gaz. vol. 165; p. 413.
Thurler, Eugène, Fribourg, Switzerland. Device for the suppression of the report of firearms. No. 1,000,702; Aug. 15; Sp. p. 3214; Gaz. vol. 169; p. 581.
Thurman, John S., St. Louis, Mo. Atomizer. No. 982,903; Jan. 31; Sp. p. 5991; Gaz. vol. 162; p. 1050.
Thurman, John S., St. Louis, Mo. Vacuum cleaning-tool. No. 986,245; Mar. 7; Sp. p. 1025; Gaz. vol. 164; p. 165.
Thurman, John S., St. Louis, Mo. Relief-valve. No. 991,671; May 9; Sp. p. 1828; Gaz. vol. 166; p. 331.
Thurman, Lee O., Lueders, Tex. Branding-iron. No. 1,012,754; Dec. 26; Sp. p. 5209; Gaz. vol. 173; p. 933.
Thurman, William, Plymouth, Wis. Conveyer. No. 993,737; May 30; Sp. p. 6266; Gaz. vol. 166; p. 1131.
Thurston, Edwin L., Boston, Mass. Faucet. No. 988,521; Apr. 4; Sp. p. 497; Gaz. vol. 165; p. 79.
Thurston, Edwin L., Boston, Mass. Flushing apparatus. No. 988,522; Apr. 4; Sp. p. 498; Gaz. vol. 165; p. 79.
Thurston, Fredrick A., Lynn, Mass. Machine for skiving counters. No. 994,219; June 6; Sp. p. 246; Gaz. vol. 167; p. 42.
Thurston, Fredrick A., Lynn, Mass. Internal-combustion engine. No. 1,011,275; Dec. 12; Sp. p. 1987; Gaz. vol. 173; p. 341.
Thurston, Fredrick A., assignor of forty-eight one-hundredths to H. M. Jones, Lynn, Mass. Clutch mechanism. No. 1,004,940; Oct. 3; Sp. p. 846; Gaz. vol. 171; p. 137.
Thurston, Thomas O., assignor of one-half to E. C. Bellwood, Manchester, Va. Platform for corn-harvesters. No. 1,011,672; Dec. 12; Sp. p. 2891; Gaz. vol. 173; p. 483.
Thurstone, Louis L., Jamestown, N. Y. Machine for producing flickerless moving pictures. No. 982,904; Jan. 31; Sp. p. 5993; Gaz. vol. 162; p. 1050.
Thwaite, Robert S., assignor to O. B. Shulhof, New York, N. Y. Spark-plug for internal-combustion engines. No. 984,454; Feb. 14; Sp. p. 2582; Gaz. vol. 163; p. 437.
Tibbens, Henry J., Danville, Ill. Device for repairing boiler-flues. No. 1,004,310; Sept. 26; Sp. p. 4679; Gaz. vol. 170; p. 828.
Tibbetts, George R., Springfield, Mass. Collapsible box. No. 980,705; Jan. 3; Sp. p. 1139; Gaz. vol. 162; p. 182.
Tibbetts, Milton, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Shock-absorber. No. 992,457; May 16; Sp. p. 3493; Gaz. vol. 166; p. 629.
Tice, Andrew J., and C. Gorsuch, Alliance; said Tice assignor to The American Case & Register Company, Salem, Ohio. Credit-cabinet. No. 1,007,822; Nov. 7; Sp. p. 390; Gaz. vol. 172; p. 61.
Tice, Steven, Rock Springs, Wyo. Rail-joint. No. 1,004,941; Oct. 3; Sp. p. 848; Gaz. vol. 171; p. 138.
Tichenor, William S., and O. Grimwood, Owensville, Ind. Hydraulic motor. No. 1,001,093; Aug. 22; Sp. p. 4103; Gaz. vol. 169; p. 752.
Ticknor, Charles W., Mount Kisco, N. Y. Device for aerating, cooling, and cleaning milk. No. 1,003,826; Sept. 19; Sp. p. 3556; Gaz. vol. 170; p. 633.
Ticknor, Frank E., and G. Manierre, Milwaukee, Wis. Loading-machine. No. 988,674; Apr. 4; Sp. p. 820; Gaz. vol. 165; p. 132.
Tidd, Joseph H., *et al.* (See Barney, Frank P., assignor.)
Tidd, Winthrop L., *et al.* (See Barney, Frank P., assignor.)
Tidmarsh, William H., Elgin, Ill. Spark-plug. No. 1,008,219; Nov. 7; Sp. p. 1235; Gaz. vol. 172; p. 201.
Tidyman, Arthur F. A., Mayville, Wis. Stanchion. No. 987,269; Mar. 21; Sp. p. 3195; Gaz. vol. 164; p. 577.
Tiebout, John. (See Thompson and Case, assignors.)
Tiedemann, Frederick E. (See Watts, Brusse, and Tiedemann.)
Tielemann, Otto. (See Eichler and Tielemann.)
Tiemann, Fritz, Berlin, Germany. Drying non-pulverulent materials. No. 992,295; May 16; Sp. p. 3145; Gaz. vol. 166; p. 573.
Tiemann, Fritz, Berlin, Germany. Process and apparatus for purifying solutions. No. 997,477; July 11; Sp. p. 1816; Gaz. vol. 168; p. 328.
Tiemann, Fritz, Berlin, Germany. Compression of precipitates in settling vessels. No. 1,007,823; Nov. 7; Sp. p. 393; Gaz. vol. 172; p. 62.
Tiemann, Harry D., Washington, D. C. Regulating and maintaining humidity. No. 981,818; Jan. 17; Sp. p. 3664; Gaz. vol. 162; p. 619.

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Tiernan, William, and H. M. Schreiber, Rolfe, Iowa. Draft appliance. No. 1,009,267; Nov. 21; Sp. p. 3669; Gaz. vol. 172; p. 640.
Tiernan, William M., and H. M. Schreiber, Rolfe, Iowa. Harrow connection. No. 987,838; Mar. 28; Sp. p. 4394; Gaz. vol. 164; p. 799.
Tierney, Charles H., Pawtucket, R. I. Crape-holder. No. 997,519; July 11; Sp. p. 1909; Gaz. vol. 168; p. 342.
Tierney, John W. (See Boys and Tierney.)
Tierney, Joseph P., Booterstown, and J. Malone, Phibsboro, Ireland. Electric track-switch. No. 989,730; Apr. 18; Sp. p. 3073; Gaz. vol. 165; p. 542.
Tiesse, August, Chicago, Ill. Pasteurizing apparatus. No. 991,808; May 9; Sp. p. 2095; Gaz. vol. 166; p. 376.
Tiffany, George S., Summit, N. J., assignor, by mesne assignments, to Bankers Trust Company, trustee. Printing-telegraph. No. 991,672; May 9; Sp. p. 1830; Gaz. vol. 166; p. 332.
Tiffany, George S., Summit, N. J., assignor, by mesne assignments, to Bankers Trust Company, trustee. Electric switch mechanism. No. 1,008,392; Nov. 14; Sp. p. 1712; Gaz. vol. 172; p. 301.
Tiffany, Henry L. (See Gess, Charles, assignor.)
Tifft, Charles F., and N. B. Shelly, Brainerd, Minn. Freight-car-door latch. No. 991,394; May 2; Sp. p. 1214; Gaz. vol. 166; p. 202.
Tigerman, William H. (See Pfautz, Daniel M., assignor.)
Tigerstrand, Emil. (See Richardson and Tigerstrand.)
Tilghman Refrigerator Company. (See Tilghman, Roswell L., assignor.)
Tilghman, Roswell L., assignor to Tilghman Refrigerator Company, Birmingham, Ala. Floral and display refrigerator. No. 986,875; Mar. 14; Sp. p. 2377; Gaz. vol. 164; p. 411.
Tilhet, Maurice, Paris, France. Variable-speed pedal-gear for cycles, motocycles, &c. No. 993,738; May 30; Sp. p. 6269; Gaz. vol. 166; p. 1131.
Till, Henry, Los Angeles, Cal. Collar-support. No. 983,953; Feb. 14; Sp. p. 1523; Gaz. vol. 163; p. 267.
Till, Henry, Los Angeles, Cal. Collar-support. No. 983,954; Feb. 14; Sp. p. 1525; Gaz. vol. 163; p. 268.
Till, Henry J., Los Angeles, Cal. Adhesive compound for collar-supports. No. 983,955; Feb. 14; Sp. p. 1527; Gaz. vol. 163; p. 268.
Tiller, Carolyn M. B., Stoneville, N. C. Skirt-marker. No. 1,007,903; Nov. 7; Sp. p. 581; Gaz. vol. 172; p. 90.
Tilley, Frederick C. (See Brown, Tom W., assignor.)
Tilley, John S., Watervliet, N. Y. Platform or plank. No. 982,905; Jan. 31; Sp. p. 5996; Gaz. vol. 162; p. 1051.
Tillinghast, Barrett D., and H. B. Porterfield, McDonald, Pa. Operating and reversing mechanism. No. 991,809; May 9; Sp. p. 2102; Gaz. vol. 166; p. 376.
Tillinghast, James, trustee. (See Loring, Benjamin C., assignor.)
Tillinghast, Wallace E., Worcester, Mass. Aeroplane. No. 1,009,200; Nov. 21; Sp. p. 3483; Gaz. vol. 172; p. 615.
Tillison, Charles D., Oakland, Cal. Valve. No. 989,885; Apr. 18; Sp. p. 3409; Gaz. vol. 165; p. 595.
Tillison, Charles D., Oakland, Cal. Trap-operating means. No. 1,007,616; Oct. 31; Sp. p. 6740; Gaz. vol. 171; p. 1212.
Tillman, Ferdinand J., St. Louis, Mo. Calculating attachment for type-writing machines. No. 1,003,671; Sept. 19; Sp. p. 3229; Gaz. vol. 170; p. 582.
Tillman, Ferdinand J., St. Louis, Mo. Adding-machine. No. 1,003,672; Sept. 19; Sp. p. 3233; Gaz. vol. 170; p. 583.
Tillmanns, Fritz. (See Fuchs and Tillmanns.)
Tilt, Charles A., assignor to J. W. Blackledge, Chicago, Ill. Automobile-spring. No. 988,229; Mar. 28; Sp. p. 5248; Gaz. vol. 164; p. 931.
Tilton, Albro M., New York, N. Y. Chain wrench. No. 996,684; July 4; Sp. p. 171; Gaz. vol. 168; p. 30.
Tilton, George P., Newburyport, Mass. Sectional chest. No. 984,784; Feb. 21; Sp. p. 3337; Gaz. vol. 163; p. 588.
Tilton, George P., Newburyport, Mass. Drawer-lock. No. 1,006,605; Oct. 24; Sp. p. 4535; Gaz. vol. 171; p. 808.
Tilyou, George C., New York, N. Y. Amusement apparatus. No. 992,999; May 23; Sp. p. 4655; Gaz. vol. 166; p. 849.
Tilyou, George C., New York, N. Y. Amusement device. No. 995,388; June 13; Sp. p. 2801; Gaz. vol. 167; p. 477.
Tim & Co. (See Zillhardt, Jacob, assignor.)
Tim, Louis B., New York, N. Y. Collar. No. 982,646; Jan. 24; Sp. p. 5415; Gaz. vol. 162; p. 934.
Timar, Dagobert. (See Dreger, Karl von, assignor.)
Timberlake, J. T., *et al.* (See Anderson, Oliver H., assignor.)
Timberlake, Wilbur B. (See Moore and Timberlake.)
Time Marking Machine Company. (See Rehak, James, assignor.)
Timewell Sack Filling & Sewing Machine Company. (See Scott, George E. and E. D., assignors.)
Timken Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
Timm, John C., Youngstown, Ohio. Eaves-trough hanger. No. 985,860; Mar. 7; Sp. p. 211; Gaz. vol. 164; p. 35.
Timm, William H., *et al.* (See Arner, Otto H., assignor.)
Timmerman, John A., Creston, Iowa. Mail crane and catcher. No. 1,004,109; Sept. 26; Sp. p. 4265; Gaz. vol. 170; p. 760.
Timming, August C., South Bend, assignor to Mishawaka Woolen Manufacturing Co., Mishawaka, Ind. Knitting-machine. No. 1,000,460; Aug. 15; Sp. p. 2660; Gaz. vol. 169; p. 493.
Timmins, Joseph, Ruckings, near Ashford, England. Vapor-engine. No. 982,449; Jan. 24; Sp. p. 5037; Gaz. vol. 162; p. 869.
Timmis, Walter S., Cranford, N. J. Machine for producing justified lines. No. 996,300; June 27; Sp. p. 4832; Gaz. vol. 167; p. 856.
Timms, James, Columbus, Ohio. Draft-rigging. No. 990,684; Apr. 25; Sp. p. 5220; Gaz. vol. 165; p. 501.
Timms, James, Columbus, Ohio. Device for securing railway-rails to ties. No. 996,685; July 4; Sp. p. 174; Gaz. vol. 168; p. 31.
Tingley, David E., Marshall, Ill. Concrete-mold. No. 988,048; Mar. 28; Sp. p. 4908; Gaz. vol. 164; p. 871.
Tingley, David E., Marshall, Ill. Concrete-mold. No. 988,049; Mar. 28; Sp. p. 4910; Gaz. vol. 164; p. 871.
Tingley, Egbert M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil-support for dynamo-electric machines. No. 1,007,506; Oct. 31; Sp. p. 6497; Gaz. vol. 171; p. 1175.
Tingley, Egbert M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manfacturing Company. Coil-support for dynamo-electric machinery. No. 1,007,617; Oct. 31; Sp. p. 6741; Gaz. vol. 171; p. 1213.
Tingue, Brown & Co. (See Decker, Ammiel F., assignor.)
Tinker, Andy, Stecker, Okla. Hay-press. No. 1,005,903; Oct. 17; Sp. p. 2915; Gaz. vol. 171; p. 529.
Tinkham, Francis M., Springfield, Mass. Extensible couch. No. 984,720; Feb. 21; Sp. p. 3203; Gaz. vol. 163; p. 566.
Tinkham, Francis M., Springfield, Mass. Couch-bed. No. 990,608; Apr. 25; Sp. p. 5032; Gaz. vol. 165; p. 877.
Tinlin, James. (See Williams and Tinlin.) (Reissue.)
Tinline, William J., Hastings, New Zealand. Means for sharpening and dressing parts of horse-clipping and other machines. No. 1,002,095; Aug. 29; Sp. p. 6178; Gaz. vol. 169; p. 1117.
Tinnin, Henry C., Farmington, Cal. Metallic railway-tie. No. 1,006,988; Oct. 24; Sp. p. 5354; Gaz. vol. 171; p. 939.
Tinsley, Addison B., Anstead, W. Va. Insulator. No. 999,683; Aug. 1; Sp. p. 957; Gaz. vol. 169; p. 167.
Tinsley, Robert, assignor to The Pullman Company, Chicago, Ill. Wall construction. No. 993,127; May 23; Sp. p. 4936; Gaz. vol. 166; p. 893.
Tinsley, Robert, Pullman, assignor to The Pullman Company, Chicago, Ill. Car-roof construction. No. 1,007,754; Nov. 7; Sp. p. 231; Gaz. vol. 172; p. 37.
Tinsman, Samuel H., St. Joseph, Mo. Cultivator. No. 986,607; Mar. 14; Sp. p. 1806; Gaz. vol. 164; p. 320.
Tinsman, Samuel H., St. Joseph, Mo. Planter. No. 1,004,942; Oct. 3; Sp. p. 850; Gaz. vol. 171; p. 138.
Tippett, William E., Washington, D. C. Vestibule-curtain holder. No. 1,000,131; Aug. 8; Sp. p. 1944; Gaz. vol. 169; p. 350.
Tipton, William M. (See Godwin, Albert G., assignor.)
Tirrill, Allen A., Schenectady, N. Y., assignor to General Electric Company. Regulator for storage batteries. No. 996,379; June 27; Sp. p. 5028; Gaz. vol. 167; p. 885.
Tirrill, Allen A., Schenectady, N. Y., assignor to General Electric Company. System of voltage regulation. No. 1,001,711; Aug. 29; Sp. p. 5367; Gaz. vol. 169; p. 990.
Tirrill, Jacob P., St. Louis, Mo. Sample-sheet holder. No. 984,867; Feb. 21; Sp. p. 3487; Gaz. vol. 163; p. 616.
Tirrill, Maud M., administratrix. (See Tirrill, Phil S.)
Tirrill, Phil S., deceased, Montpelier, Vt.; M. M. Tirrill, administratrix, (now by marriage M. M. Heath.) Packing. No. 998,558; July 18; Sp. p. 4234; Gaz. vol. 168; p. 750.
Tisdale, Archie W., Mobile, Ala. Pin-spotting device for bowling-alleys. No. 983,956; Feb. 14; Sp. p. 1527; Gaz. vol. 163; p. 268.
Tisdale, Julius P., Zearing, Iowa. Churn-dasher. No. 994,891; June 13; Sp. p. 1772; Gaz. vol. 167; p. 312.
Titanium Alloy Manufacturing Company, The. (See Rossi, Auguste J., assignor.)
Titchell, Joseph, Chicago, Ill. Tape-measure attachment. No. 991,103; May 2; Sp. p. 570; Gaz. vol. 166; p. 99.
Titcomb, George E., Philadelphia, Pa. Plant for handling and storing coal. No. 1,011,276; Dec. 12; Sp. p. 1990; Gaz. vol. 173; p. 342.
Titcomb, George E., Philadelphia, Pa., assignor to The J. M. Dodge Company, Naugatuck, Conn. Coal-handling apparatus. No. 983,659; Feb. 7; Sp. p. 868; Gaz. vol. 163; p. 138.
Titrud, Carl, Cokato, Minn. Stanchion. No. 1,009,807; Nov. 28; Sp. p. 4809; Gaz. vol. 172; p. 871.
Titterton, Frank, Birmingham, England. Locking mechanism for safes, strong-rooms, and the like. No. 992,296; May 16; Sp. p. 3147; Gaz. vol. 166; p. 573.
Tittle, Reuben D., Springfield, Ohio. Gearing. No. 1,010,705; Dec. 5; Sp. p. 669; Gaz. vol. 173; p. 108.
Titus, Henry W., New York, N. Y. Adjustable dumb-bell. No. 984,721; Feb. 21; Sp. p. 3205; Gaz. vol. 163; p. 567.
Tixier, Auguste, Billancourt, France. Sand filter and the like. No. 989,665; Apr. 18; Sp. p. 2944; Gaz. vol. 165; p. 519.

Toal, David J., Glen Oak, Ontario, Canada. Automatic fare-register. No. 986,523; Mar. 14; Sp. p. 1627; Gaz. vol. 164; p. 289.
Toan, Robert O., Jackson, Mich. Sanitary drinking vessel. No. 999,134; July 25; Sp. p. 5533; Gaz. vol. 168; p. 984.
Tober, Carl, Oberschöneweide, Germany. Rolling-mill guiding appliance for wire, strip metal, &c. No. 989,731; Apr. 18; Sp. p. 3077; Gaz. vol. 165; p. 542.
Tobey, W. L. (See Craig, Frank R., assignor.)
Tobias, Guy O., Clinton, Mo. Fuel-valve for internal-combustion engines. No. 981,819; Jan. 17; Sp. p. 3667; Gaz. vol. 162; p. 620.
Tobin, Edward M. (See Holden and Tobin.)
Toborg, George, Chicago, Ill. Automatic firearm. No. 1,008,498; Nov. 14; Sp. p. 1974; Gaz. vol. 172; p. 338.
Toch, Henry M. (See Toch, Maximilian, assignor.)
Toch, Maximilian, assignor of one-half to H. M. Toch, New York, N. Y. Bottle for advertising. No. 1,009,453; Nov. 21; Sp. p. 4103; Gaz. vol. 172; p. 707.
Todaro, Vincent S., New York, N. Y. Button-sewing attachment for sewing-machines. No. 1,009,701; Nov. 21; Sp. p. 4570; Gaz. vol. 172; p. 787.
Todd, Andrew B., Short Beach, Conn. Stairway. No. 1,002,096; Aug. 29; Sp. p. 6180; Gaz. vol. 169; p. 1117.
Todd, Charles W., Manchester, N. H. Steam-boiler. No. 1,004,713; Oct. 3; Sp. p. 367; Gaz. vol. 171; p. 60.
Todd, Charles W., assignor of one-third to L. W. Crockett, Manchester, N. H., and one-third to D. A. Burt, Boston, Mass. Steam-boiler. No. 986,876; Mar. 14; Sp. p. 2380; Gaz. vol. 164; p. 412.
Todd & Company, G. W. (See Todd, Libanus M., assignor.)
Todd, Frank, assignor to J. B. Long, Chicago, Ill. Radiator. No. 993,318; May 23; Sp. p. 5309; Gaz. vol. 166; p. 953.
Todd, George W., Omaha, Nebr. Artificial tooth. No. 1,005,365; Oct. 10; Sp. p. 1739; Gaz. vol. 171; p. 310.
Todd, H. Stanley. (See Ostergren, Oscar P., assignor.)
Todd, John H. C., *et al.* (See Homan, James, assignor.)
Todd, John P., assignor of one-third to W. H. Frierson, Anderson, S. C. Metallic shingle. No. 993,281; May 23; Sp. p. 5237; Gaz. vol. 166; p. 939.
Todd, John T., Springfield, Ill. Game apparatus. No. 999,913; Aug. 8; Sp. p. 1443; Gaz. vol. 169; p. 274.
Todd, John W. (See Fulson, Charles H., assignor.)
Todd, Leon S., Sandrock, Wis. Shingle-sawing machine. No. 1,000,210; Aug. 8; Sp. p. 2118; Gaz. vol. 169; p. 377.
Todd, Libanus M., Rochester, N. Y. Negotiable instrument. No. 980,365; Jan. 3; Sp. p. 375; Gaz. vol. 162; p. 67.
Todd, Libanus M., assignor to G. W. Todd & Company, Rochester, N. Y. Printing apparatus. No. 982,752; Jan. 24; Sp. p. 5645; Gaz. vol. 162; p. 968.
Todd, Marquis J., assignor to Buffalo Pitts Company, Buffalo, N. Y. Steering mechanism for road freight-cars. No. 981,499; Jan. 10; Sp. p. 2999; Gaz. vol. 162; p. 488.
Todd, Marquis J., assignor to Buffalo Pitts Company, Buffalo, N. Y. Traction-wheel. No. 994,348; June 6; Sp. p. 503; Gaz. vol. 167; p. 87.
Todd, Marvin L. (See Buck and Todd.)
Todd, William J., Denver, Colo. Fire-escape. No. 1,007,255; Oct. 31; Sp. p. 5961; Gaz. vol. 171; p. 1088.
Todt, Willy, Dusseldorf, Germany. Dam as closure for collecting-basins constructed in a filterlike manner of loose small rock. No. 998,813; July 25; Sp. p. 4836; Gaz. vol. 168; p. 873.
Toegel, Ludolf, Buffalo, N. Y. Pipe-cutting tool. No. 1,008,393; Nov. 14; Sp. p. 1714; Gaz. vol. 172; p. 301.
Toennes, Richard, Boonville, Mo. Embankment-protector. No. 991,041; May 2; Sp. p. 445; Gaz. vol. 166; p. 77.
Tojbin, Rachmel, Berlin, Germany. Counting apparatus. No. 996,541; June 27; Sp. p. 5367; Gaz. vol. 167; p. 939.
Tokarski, August. (See Spaeth and Tokarski.)
Tokheim, John J., Cedar Rapids, Iowa. Bracket. No. 989,208; Apr. 11; Sp. p. 1922; Gaz. vol. 165; p. 333.
Tokheim Mfg. Co., The. (See Fuhrman, Herman C., assignor.)
Toland, John, Boston, Mass. Button-burnishing machine. No. 1,003,218; Sept. 12; Sp. p. 2273; Gaz. vol. 170; p. 391.
Tolbert, Fred, Rogers, Ark. Automatic-switch construction. No. 998,050; July 18; Sp. p. 3137; Gaz. vol. 168; p. 571.
Toledo Computing Scale Company. (See De Vilbiss, Allen, Jr., assignor.)
Toledo Computing Scale Company. (See Drew, William F., assignor.)
Toledo Computing Scale Company. (See Engelhardt, Frank M., assignor.)
Toledo Computing Scale Company. (See Ganzhorn and Mueller, assignors.)
Toledo Computing Scale Company. (See Hansen, Niels M., assignor.)
Toledo Computing Scale Company. (See Pool, Elmer C., assignor.)
Toledo Computing Scale Company. (See Reeves, Orevell C., assignor.)
Toledo Computing Scale Company. (See Sholty, Walter A., assignor.)
Toledo Computing Scale Company. (See Wetzel, Lewis C., assignor.)
Toledo Electric Welder Company, The. (See Macneale, Neil, assignor.)
Toledo Parlor Furniture Company, The. (See Klopping, Adolph C., assignor.)
Toles, Justin K., Stockton, Cal. Artificial limb. No. 980,457; Jan. 3; Sp. p. 600; Gaz. vol. 162; p. 99.
Toles, Justin K., Stockton, Cal. Aerial navigation. No. 988,523; Apr. 4; Sp. p. 500; Gaz. vol. 165; p. 80.
Tolhurst, Frederick A. (See Groat, Croasdale, and Tolhurst.)
Tolhurst, Frederick A., New York, assignor to Tolhurst Machine Works, Troy, N. Y. Drying and polishing. No. 1,003,827; Sept. 19; Sp. p. 3557; Gaz. vol. 170; p. 633.
Tolhurst Machine Works. (See Tolhurst, Frederick A., assignor.)
Toliver, James A., Oklahoma, Okla. Reversing mechanism for steam-engines. No. 991,673; May 9; Sp. p. 1843; Gaz. vol. 166; p. 332.
Tolleson, John T., and C. James, Manhattan, Nev. Water-motor. No. 997,719; July 11; Sp. p. 2350; Gaz. vol. 168; p. 413.
Tolman, James P., Newton, and J. L. Bixby, Jr., Arlington, assignors to Samson Cordage Works, Boston, Mass. Rope-coupling. No. 999,914; Aug. 8; Sp. p. 1446; Gaz. vol. 169; p. 275.
Tolnay, Jozsef, Bridgeport, Conn. Lock. No. 1,010,094; Nov. 28; Sp. p. 5404; Gaz. vol. 172; p. 968.
Tolsma, Raymond S. (See Graef, Anthony H., assignor.)
Tomaszswski, Maryan, New York, N. Y. Cuspidor. No. 1,010,095; Nov. 28; Sp. p. 5405; Gaz. vol. 172; p. 969.
Tomblin, Oscar I., Chicago, Ill. Corn-planter. No. 998,998; July 25; Sp. p. 5271; Gaz. vol. 168; p. 938.
Tomer, Ellis, Visalia, Cal. Sprinkling-machine. No. 984,455; Feb. 14; Sp. p. 2584; Gaz. vol. 163; p. 437.
Tomischka, Alois, Mödling, near Vienna, Austria-Hungary. Firearm. No. 985,229; Feb. 28; Sp. p. 4276; Gaz. vol. 163; p. 774.
Tomkins, Alfred, Pittsburgh, Pa. Furnace. No. 1,008,876; Nov. 14; Sp. p. 2788; Gaz. vol. 172; p. 469.
Tomkins, Calvin. (See Bishop, William A., assignor.)
Tomlinson, Charles E., assignor to A. T. Brown, Syracuse, N. Y. Type-writing machine. No. 996,813; July 4; Sp. p. 432; Gaz. vol. 168; p. 72.
Tomlinson, Charles E., assignor to A. E. Parsons, trustee, Syracuse, N. Y. Means for holding record-receiving elements. No. 997,427; July 11; Sp. p. 1725; Gaz. vol. 168; p. 313.
Tomlinson, George E., Winchester, Ky. Automobile-tire. No. 990,609; Apr. 25; Sp. p. 5035; Gaz. vol. 165; p. 877.
Tomlinson, Joseph N., Vineland, N. J. Third rail for electric railways. No. 995,204; June 13; Sp. p. 2393; Gaz. vol. 167; p. 415.
Tomlinson, Royal D., assignor to Allis-Chalmers Company, Milwaukee, Wis. Barometric condenser. No. 1,002,814; Sept. 5; Sp. p. 1392; Gaz. vol. 170; p. 212.
Tomm, Edward P. (See Gustafson, Axel R., assignor.)
Tompkins, Clarence W., Brookfield, Mo. Automobile-wheel. No. 1,009,942; Nov. 28; Sp. p. 5079; Gaz. vol. 172; p. 915.
Tompkins, Ernest N., *et al.* (See Estes, Charles E., assignor.)
Tompkins, Margaret A., Louisville, Ky. Curtain-draping apparatus. No. 988,912; Apr. 4; Sp. p. 1299; Gaz. vol. 165; p. 209.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Grinding and polishing wheel. No. 986,246; Mar. 7; Sp. p. 1026; Gaz. vol. 164; p. 165.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Production of dense compacted silicon carbid. No. 992,698; May 16; Sp. p. 3995; Gaz. vol. 166; p. 713.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Silicon-oxygen product. No. 993,913; May 30; Sp. p. 6600; Gaz. vol. 166; p. 1189.
Tone, Frank J., assignor to The Carborundum Company, Niagara Falls, N. Y. Treating emery ore. No. 1,002,608; Sept. 5; Sp. p. 958; Gaz. vol. 170; p. 142.
Tönjes, Carl, Delmenhorst, Germany. Making composite wooden bodies. No. 1,010,706; Dec. 5; Sp. p. 672; Gaz. vol. 173; p. 108.
Tonkin, John O., Steglitz, near Berlin, Germany. Recording speed-indicator. No. 998,213; July 18; Sp. p. 3487; Gaz. vol. 168; p. 628.
Tonsor, John P., Arlington, assignor of one-half to C. Ortholf, Belleville, N. J. Time-actuated releasing device. No. 1,004,827; Oct. 3; Sp. p. 597; Gaz. vol. 171; p. 98.
Toohey, John A., Rockwell, assignor of one-nineteenth to Daniel G. Watkins, Dunnellon, Fla. Vehicle-wheel. No. 983,848; Feb. 7; Sp. p. 1268; Gaz. vol. 163; p. 203.
Tool, Archie W., Bellaire, Kans. Horse-detacher. No. 1,003,073; Sept. 12; Sp. p. 1953; Gaz. vol. 170; p. 338.
Toole, Edward, Philadelphia, assignor of one-half to W. W. Russell, Devon, Pa. Belt-lacing machine. No. 983,520; Feb. 7; Sp. p. 560; Gaz. vol. 163; p. 90.
Tooley, Charles M., Griggsville, Ill. Brush-knife. No. 984,401; Feb. 14; Sp. p. 2475; Gaz. vol. 163; p. 419.
Toomer, Robert, *et al.* (See Gambill and Woods, assignors.)

Alphabetical list of patentees—Continued.

Toomey, Charles W., Athol, Mass. Cue-locking device. No. 997,428; July 11; Sp. p. 1729; Gaz. vol. 168; p. 314.
Toomey, John A., Chicago, Ill. Stake for cars. No. 1,004,311; Sept. 26; Sp. p. 4680; Gaz. vol. 170; p. 828.
Toomey, Simon, assignor to R. Hillgrove, Glace Bay, Nova Scotia, Canada. Hat-pin protector. No. 1,010,532; Dec. 5; Sp. p. 295; Gaz. vol. 173; p. 47.
Toomy, Edmond F., Jersey City, N. J. Mail-box. No. 997,478; July 11; Sp. p. 1818; Gaz. vol. 168; p. 329.
Topping, W. V. B. (See Plice, Thomas V., assignor.)
Torchiani, Harry, Chicago, Ill. Air-filter. No. 1,001,094; Aug. 22; Sp. p. 4105; Gaz. vol. 169; p. 752.
Toren, Joseph, Thornton, Ill. Antiskidding device. No. 1,011,277; Dec. 12; Sp. p. 1993; Gaz. vol. 173; p. 342.
Torgersen, Hjalmar, Ashby, Minn. Hay-rake. No. 1,001,904; Aug. 29; Sp. p. 5798; Gaz. vol. 169; p. 1056.
Torgerson, Lewis, Turtle Lake, N. D. Drive-pulley. No. 981,500; Jan. 10; Sp. p. 3001; Gaz. vol. 162; p. 489.
Torjusen, Carsten E. (See Price, Davis G., assignor.)
Torma, Joseph, and J. F. Orth, East Pittsburgh, Pa. Headlight-controlling device. No. 1,011,278; Dec. 12; Sp. p. 1994; Gaz. vol. 173; p. 342.
Tormin, Egmont M., Newton Center, assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Telephone signaling system. No. 990,685; Apr. 25; Sp. p. 5222; Gaz. vol. 165; p. 902.
Tormin, Egmont M., Newton Center, assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Circuit-interrupter. No. 990,790; Apr. 25; Sp. p. 5448; Gaz. vol. 165; p. 938.
Tormin, Egmont M., Newton Center, assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Ignition system for gas-engine dynamo sets. No. 994,288; June 6; Sp. p. 382; Gaz. vol. 167; p. 65.
Tormin, Egmont M., Newton Center, assignor to Holtzer-Cabot Electric Company, Brookline, Mass. Apparatus for indicating the condition of storage batteries. No. 1,012,298; Dec. 19; Sp. p. 4276; Gaz. vol. 173; p. 733.
Tormin, Egmont M., Brookline, Mass., assignor to Holtzer-Cabot Electric Company. Dynamo-electric machine. No. 1,010,533; Dec. 5; Sp. p. 296; Gaz. vol. 173; p. 47.
Tornberg, Knut, Lynn, Mass., assignor to General Electric Company. Cast electrode. No. 998,865; July 25; Sp. p. 4959; Gaz. vol. 168; p. 891.
Tornquist, John A., Davenport, Iowa. Electric fuse. No. 1,003,673; Sept. 19; Sp. p. 3235; Gaz. vol. 170; p. 583.
Tornwall, Pery A., and R. M. Boyd, Houston, Miss. Drinking-fountain. No. 985,861; Mar. 7; Sp. p. 212; Gaz. vol. 164; p. 35.
Tornyay-Schosberger, Rudolf, Budapest, Austria-Hungary. Manufacturing cement. No. 983,521; Feb. 7; Sp. p. 562; Gaz. vol. 163; p. 90.
Torrence, Otis M., Groom, Tex. Switch. No. 1,011,673; Dec. 12; Sp. p. 2892; Gaz. vol. 173; p. 483.
Torrey, Charles E., New York, N. Y. Carboy-holder. No. 988,675; Apr. 4; Sp. p. 825; Gaz. vol. 165; p. 133.
Torrey, Levi F., assignor to M. E. Torrey, Buffalo, N. Y. Mechanical stoker. No. 986,877; Mar. 14; Sp. p. 2382; Gaz. vol. 164; p. 412.
Torrey, Margaret E. (See Torrey, Levi F., assignor.)
Torsell, Carl T., Warren, Ohio. Manufacture of combined steel ingots and plates. No. 987,774; Mar. 28; Sp. p. 4259; Gaz. vol. 164; p. 777.
Torsion Balance Company, The. (See Lewis, Rollin C., assignor.)
Toscano, Frank C. (See Marchese and Toscano.)
Tosco, Agostino, San Francisco, Cal. Water-heating gas-stove. No. 988,524; Apr. 4; Sp. p. 502; Gaz. vol. 165; p. 80.
Toskov, John, Little Neck, N. Y. Medicinal-powder toller. No. 985,303; Feb. 28; Sp. p. 4442; Gaz. vol. 163; p. 798.
Tóth, Béla, Cleveland, Ohio. Grinding and dressing machine for castings. No. 987,511; Mar. 21; Sp. p. 3689; Gaz. vol. 164; p. 658.
Toth, Ferencz, Zanesville, Ohio. Horse feeding-bag. No. 1,011,674; Dec. 12; Sp. p. 2893; Gaz. vol. 173; p. 483.
Toth, Joseph. (See Michki and Toth.)
Toth, Karl, Detroit, Mich. Mirror. No. 1,006,315; Oct. 17; Sp. p. 3861; Gaz. vol. 171; p. 675.
Toth, Peter, Vintondale, Pa. Lock. No. 982,696; Jan. 24; Sp. p. 5521; Gaz. vol. 162; p. 951.
Tothill, William S., Chicago, Ill. Rocking-boat amusement device. No. 982,314; Jan. 24; Sp. p. 4742; Gaz. vol. 162; p. 820.
Tothill, William S., Chicago, Ill. Lawn-swing. No. 993,000; May 23; Sp. p. 4659; Gaz. vol. 166; p. 849.
Totten, Cleophas, Jewett, Ohio. Nut-locking device. No. 994,547; June 6; Sp. p. 928; Gaz. vol. 167; p. 154.
Totten, Homer L., and T. F. Snyder, Canton, Ohio. Embroidery-hoop. No. 1,010,534; Dec. 5; Sp. p. 299; Gaz. vol. 173; p. 47.
Totten, John H., Marion, N. C. Veneer-sizing machine. No. 1,000,855; Aug. 15; Sp. p. 3528; Gaz. vol. 169; p. 635.
Tottle & Co., Wm. A. (See McMillan, Hugh P., assignor.)
Totty, Benjamin E., Richmond, Va. Combination implement. No. 1,004,312; Sept. 26; Sp. p. 4685; Gaz. vol. 170; p. 829.
Touchstone, Jonas C., Corsicana, Tex. Quilting-machine attachment. No. 983,182; Jan. 31; Sp. p. 6559; Gaz. vol. 162; p. 1141.
Tournier, Julius C., Schenectady, N. Y., assignor to General Electric Company. Cluster-socket. No. 1,010,465; Dec. 5; Sp. p. 131; Gaz. vol. 173; p. 24.
Tousley, Isaac N., Chicago, Ill. Liquid-strainer. No. 1,005,366; Oct. 10; Sp. p. 1740; Gaz. vol. 171; p. 310.
Touzalin, Leslie A., Chicago, Ill. Apparatus for determining dust and moisture in gases. No. 984,047; Feb. 14; Sp. p. 1730; Gaz. vol. 163; p. 298.
Tovey, William M., assignor of one-half to T. E. Price, Montreal, Quebec, Canada. Disinfecting device. No. 1,009,868; Nov. 28; Sp. p. 4936; Gaz. vol. 172; p. 891.
Tower, Clement B., Jr., Hyde Park, Mass. Amusement device. No. 993,282; May 23; Sp. p. 5239; Gaz. vol. 166; p. 940.
Tower, Clinton A., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 997,219; July 4; Sp. p. 1307; Gaz. vol. 168; p. 213.
Tower, Clinton A., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 999,915; Aug. 8; Sp. p. 1448; Gaz. vol. 169; p. 275.
Tower, Clinton A., assignor to The National Malleable Castings Company, Cleveland, Ohio. Car-coupling. No. 999,916; Aug. 8; Sp. p. 1450; Gaz. vol. 169; p. 275.
Tower, Daniel W., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. No. 980,458; Jan. 3; Sp. p. 602; Gaz. vol. 162; p. 99.
Tower, Daniel W., assignor to Grand Rapids Brass Co., Grand Rapids, Mich. Latch-lock. No. 987,190; Mar. 21; Sp. p. 3025; Gaz. vol. 164; p. 548.
Tower, Daniel W., assignor to Grand Rapids Brass Co., Grand Rapids, Mich. Latch-lock. (Reissue.) No. 13,275; July 18; Sp. p. 4331; Gaz. vol. 168; p. 766.
Tower, Ray J., assignor of one-half to The Gordon Hollow Blast Grate Company, Greenville, Mich. Edger. No. 1,002,883; Sept. 12; Sp. p. 1585; Gaz. vol. 170; p. 274.
Tower, William J., *et al.* (See De Rosier, Horace, assignor.)
Towle, Charles R., Haverhill, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Heel-nailing machine. No. 982,550; Jan. 24; Sp. p. 5237; Gaz. vol. 162; p. 903.
Towles, Edwin P., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Vertical cylindrical drier. No. 1,000,211; Aug. 8; Sp. p. 2120; Gaz. vol. 169; p. 377.
Town, Frederic E., New York, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator-door lock. No. 986,327; Mar. 7; Sp. p. 1186; Gaz. vol. 164; p. 192.
Towne, Ernest W., Auburndale, Mass. Card-delivery device. No. 984,785; Feb. 21; Sp. p. 3340; Gaz. vol. 163; p. 589.
Townley, Charles E., Dryden, N. Y. Fence-gate. No. 989,082; Apr. 11; Sp. p. 1670; Gaz. vol. 165; p. 290.
Townley, William D., San Francisco, Cal., assignor to Hercules Auto Starter (Inc.). Cranking device for explosion-engines. No. 1,011,096; Dec. 5; Sp. p. 1531; Gaz. vol. 173; p. 242.
Towns, Elson, Elm River township, Wayne county, assignor of one-half to C. O. Truscott, Cisne, Ill. Clock striking mechanism. No. 1,001,095; Aug. 22; Sp. p. 4107; Gaz. vol. 169; p. 753.
Towns, Jeremiah M., Towns, Ga. Turpentine-cup. No. 1,006,150; Oct. 17; Sp. p. 3476; Gaz. vol. 171; p. 617.
Towns, Jeremiah M., Towns, Ga. Turpentine-gathering gutter. No. 1,011,279; Dec. 12; Sp. p. 1996; Gaz. vol. 173; p. 343.
Townsend, Arthur L., assignor of one-half to A. A. Lohr, Washington, D. C. Relay. No. 1,006,703; Oct. 24; Sp. p. 4713; Gaz. vol. 171; p. 840.
Townsend, Charles E., Decatur county, Kans. Combination dipping and loading chute. No. 981,330; Jan. 10; Sp. p. 2640; Gaz. vol. 162; p. 430.
Townsend, Elvin E., Oakland, Cal. Valve-grinder. No. 996,435; June 27; Sp. p. 5166; Gaz. vol. 167; p. 904.
Townsend, George, Moscow, Russia, assignor to Job Day and Sons Limited, Leeds, England. Packaging and wrapping machine. No. 989,666; Apr. 18; Sp. p. 2946; Gaz. vol. 165; p. 520.
Townsend, George, Moscow, Russia, assignor to Job Day and Sons Limited, Leeds, England. Paper-bag-making machine. No. 989,667; Apr. 18; Sp. p. 2949; Gaz. vol. 165; p. 520.
Townsend, George E., Springfield, Ohio. Lawn-mower. No. 991,910; May 9; Sp. p. 2306; Gaz. vol. 166; p. 411.
Townsend, Harry E., New York, N. Y. Water-heater. No. 1,001,096; Aug. 22; Sp. p. 4109; Gaz. vol. 169; p. 753.
Townsend, Harry E., New York, N. Y. Water-heater. No. 1,001,232; Aug. 22; Sp. p. 4379; Gaz. vol. 169; p. 796.
Townsend, Harry E., Brooklyn, assignor to Jaburg Bros., New York, N. Y. Mixer. No. 989,733; Apr. 18; Sp. p. 3084; Gaz. vol. 165; p. 543.
Townsend, Harry P., New Britain, Conn. Toy. No. 989,732; Apr. 18; Sp. p. 3080; Gaz. vol. 165; p. 542.
Townsend, James E., assignor to Peoples Wagon Company, Philadelphia, Pa. Chute coal-wagon. No. 998,724; July 25; Sp. p. 4639; Gaz. vol. 168; p. 842.
Townsend, James H., Gloversville, N. Y. Carpet-sweeper. No. 989,083; Apr. 11; Sp. p. 1671; Gaz. vol. 165; p. 290.

Alphabetical list of patentees—Continued.

Townsend, Pitt. (See Terry and Townsend.)
Townsend, Roy C., Beloit, Wis., assignor to Fairbanks, Morse and Company, Chicago, Ill. Transmission-gearing. No. 1,004,714; Oct. 3; Sp. p. 368; Gaz. vol. 171; p. 60.
Townsend, Samuel P., Orange, N. J. Grease-gun. No. 983,095; Jan. 31; Sp. p. 6411; Gaz. vol. 162; p. 1114.
Towsley, John T. (See Felts, Orange O., assignor.)
Towson, Morris S., Cleveland, Ohio. Controller. No. 997,520; July 11; Sp. p. 1910; Gaz. vol. 168; p. 342.
Tozer, Archibald B., Erie, Pa., assignor of one-fifth to D. O. Summers Cleaning Company, Cleveland, Ohio. Laundrying. No. 998,935; July 25; Sp. p. 5115; Gaz. vol. 168; p. 917.
Tozer, Archibald B., Erie, Pa., assignor of one-fifth to D. O. Summers Cleaning Company, Cleveland, Ohio. Machine for laundrying. No. 1,002,473; Sept. 5; Sp. p. 662; Gaz. vol. 170; p. 96.
Tracy, George H., Albion, Nebr. Grain-shocking device. No. 994,799; June 13; Sp. p. 1527; Gaz. vol. 167; p. 281.
Tracy, Hayden H., Berkeley, and H. E. Boyrie, San Francisco, Cal. Setting for boiler-furnaces. No. 1,003,548; Sept. 19; Sp. p. 2956; Gaz. vol. 170; p. 539.
Tracy, Hayden H., Berkeley, and H. E. Boyrie, San Francisco, Cal. Steam-separator. No. 1,012,755; Dec. 26; Sp. p. 5211; Gaz. vol. 173; p. 933.
Tracy, Helen. (See Hughes, John, assignor.)
Tracy, J. A. (See Morrison, William J., assignor.)
Tracy, Seab T., Gainesville, Ga., and A. M. Moylan, Century, Fla. Stamp-cutting machine. No. 989,734; Apr. 18; Sp. p. 3087; Gaz. vol. 165; p. 543.
Tracy, Thomas E., Kansas City, Mo. Thumb-tack. No. 1,002,609; Sept. 5; Sp. p. 959; Gaz. vol. 170; p. 142.
Trafelet, Louis, Flint, Mich. Sash-lock. No. 980,574; Jan. 3; Sp. p. 868; Gaz. vol. 162; p. 139.
Trainer, George H., Salem, W. Va. Gas-well construction. No. 1,009,943; Nov. 28; Sp. p. 5080; Gaz. vol. 172; p. 916.
Traiser, Charles H. (See Falwell, Wray, assignor.)
Trana, Ole A., assignor of one-half to W. J. Westphal, St. Paul, Minn. Antislipping device for resilient tires. No. 995,428; June 13; Sp. p. 2914; Gaz. vol. 167; p. 492.
Transportation Appliance Corporation. (See Schenck, Charles, assignor.)
Transue, George A., Factoryville, Pa. Hand addressing-machine. No. 1,005,367; Oct. 10; Sp. p. 1741; Gaz. vol. 171; p. 310.
Trantham, Lizzie, McKinney, Tex. Quilting-frame. No. 983,957; Feb. 14; Sp. p. 1530; Gaz. vol. 163; p. 268.
Trapp, Clyde C., *et al.* (See Baublits, Don P., assignor.)
Trapp, Jesse L. (See Pryor and Trapp.)
Trask, Laura M., Brokaw, Wis. Lady's hand bag. No. 991,252; May 2; Sp. p. 906; Gaz. vol. 166; p. 153.
Trask, Samuel J., Utica, N. Y. Crutch. No. 991,104; May 2; Sp. p. 571; Gaz. vol. 166; p. 100.
Trask, Wilber C., New Orleans, La. Harness-saddle. No. 1,008,755; Nov. 14; Sp. p. 2544; Gaz. vol. 172; p. 429.
Traub Jewelry Manufacturing Company, The. (See Scott, Lisle T., assignor.)
Traub, Ural S., Yonkers, N. Y. Internal-combustion engine. No. 990,082; Apr. 18; Sp. p. 3816; Gaz. vol. 165; p. 662.
Traut & Hine Manufacturing Company, The. (See Humphrey, Ernest N., assignor.)
Traut & Hine Manufacturing Company, The. (See Schoell, Eugene F., assignor.)
Traut & Hine Manufacturing Company, The. (See Smith and Humphrey, assignors.)
Travelers Insurance Company, The. (See Penfield, George S., assignor.)
Travelers' Insurance Machine Company, The. (See Castleman, Samuel T., assignor.)
Travelers Insurance Machine Company, The. (See Church, Edmund S., assignor.)
Traver, George A., *et al.* (See Macduffee, Chester E., assignor.)
Travers, John T., *et al.* (See Pierce, Franklin A., assignor.)
Travers, William J., assignor of one-half to J. Collins, Olinda, Cal. Purifying oil. No. 1,004,219; Sept. 26; Sp. p. 4509; Gaz. vol. 170; p. 798.
Traversi, Frank P., New York, N. Y. Garment-hanger. No. 989,448; Apr. 11; Sp. p. 2443; Gaz. vol. 165; p. 413.
Traves, Webster F., assignor to J. McMyler, Cleveland, Ohio. Switch-stand. No. 981,721; Jan. 17; Sp. p. 3449; Gaz. vol. 162; p. 584.
Traves, Webster F., assignor to W. H. Becker, Cleveland, Ohio. Railway-rail. No. 1,000,461; Aug. 15; Sp. p. 2661; Gaz. vol. 169; p. 494.
Travis, Clarence C. (See Dunlap, John W., assignor.)
Travis, Denison E. (See Heywood and Travis.)
Travis, James, Cascade, Mont. Aerodrome. No. 997,521; July 11; Sp. p. 1911; Gaz. vol. 168; p. 343.
Travis, John M., St. Louis, Mo. Faucet. No. 1,005,368; Oct. 10; Sp. p. 1744; Gaz. vol. 171; p. 311.
Travis, Roy G. (See Seaton and Travis.)
Travis, William B. (See Horr and Travis.)
Traxler, Cisco R., Winston Salem, N. C., assignor to American Farm Tractor Co., New York, N. Y. Traction-wheel. No. 1,004,313; Sept. 26; Sp. p. 4686; Gaz. vil. 170; p. 829.
Traxler, Maroni, E. E. Long, and F. M. Weld, Lamoni, Iowa; said Traxler assignor to said Long and said Weld. Mold for making plastic blocks and bricks. No. 998,051; July 18; Sp. p. 3138; Gaz. vol. 168; p. 571.
Trayer, William H., and F. Campbell, Carlisle, Pa. Music-book holder and leaf-turner. No. 1,005,673; Oct. 10; Sp. p. 2436; Gaz. vol. 171; p. 418.
Traylor, Bruce W., New York, N. Y. Rock and ore crusher. No. 980,575; Jan. 3; Sp. p. 869; Gaz. vol. 162; p. 139.
Traylor, Bruce W., New York, N. Y. Continuous filter. No. 1,000,856; Aug. 15; Sp. p. 3531; Gaz. vol. 169; p. 635.
Traylor, Samuel W., Allentown, Pa., assignor to M. P. Schantz, trustee. Water-jacket. No. 985,077; Feb. 21; Sp. p. 3887; Gaz. vol. 163; p. 687.
Traylor, Samuel W., Allentown, Pa., assignor to M. P. Schrantz, trustee. Water-jacket. No. 998,658; July 25; Sp. p. 4485; Gaz. vol. 168; p. 818.
Treadwell, Munson H., New York, N. Y. Built-up ladle. No. 1,006,606; Oct. 24; Sp. p. 4537; Gaz. vol. 171; p. 809.
Treat, Francis H., Cleveland, Ohio. Flexible bearing for shafts. No. 999,917; Aug. 8; Sp. p. 1451; Gaz. vol. 169; p. 275.
Trebert, Henry L. F., Rochester, N. Y. Internal-combustion engine. No. 980,366; Jan. 3; Sp. p. 377; Gaz. vol. 162; p. 67.
Trecker, Theodore. (See Kearney and Trecker.)
Treese, Albert L., assignor to Treese Cotton Cleaner Company, Jennings, Okla. Cotton-cleaner. No. 997,104; July 4; Sp. p. 1073; Gaz. vol. 168; p. 173.
Treese, Albert L., Jennings, assignor to W. L. and B. Clayton and M. D. Anderson, Oklahoma, Okla. Cotton-press. No. 980,706; Jan. 3; Sp. p. 1141; Gaz. vol. 162; p. 182.
Treese Cotton Cleaner Company. (See Treese, Albert L., assignor.)
Treese, Frank L., Juniata, Pa. Grease-cup. No. 1,003,305; Sept. 12; Sp. p. 2456; Gaz. vol. 170; p. 423.
Tregoning, Alfred, Los Angeles, Cal. Hose-nozzle. No. 981,956; Jan. 17; Sp. p. 4007; Gaz. vol. 162; p. 668.
Tregoning Electric Manufacturing Company, The. (See Tregoning, William C., assignor.
Tregoning, William C., assignor to The Tregoning Electric Manufacturing Company, Cleveland, Ohio. Lamp-socket. No. 991,761; May 9; Sp. p. 1998; Gaz. vol. 166; p. 359.
Tregoning, William C., assignor to The Tregoning Electric Manufacturing Company, Cleveland, Ohio. Shade-holder for electric lamps. No. 991,762; May 9; Sp. p. 1999; Gaz. vol. 166; p. 359.
Tregoning, William C., assignor to The Tregoning Electric Manufacturing Company, Cleveland, Ohio. Shade-holder for electric lamps. No. 991,763; May 9; Sp. p. 2000; Gaz. vol. 166; p. 360.
Tregoning, William C., assignor to The Tregoning Electric Manufacturing Co., Cleveland, Ohio. Attachment-plug for electric wires. No. 1,005,119; Oct. 3; Sp. p. 1167; Gaz. vol. 171; p. 197.
Treiber, Frank A., Cumberland, Md. Printing-machine. No. 988,603; Apr. 4; Sp. p. 674; Gaz. vol. 165; p. 108.
Treiber, Theodore R., Kansas City, Mo. Powder-disseminator. No. 998,052; July 18; Sp. p. 3141; Gaz. vol. 168; p. 572.
Treichler, Lorin W., Williamsville, assignor to J. P. Devine Company, Buffalo, N. Y. Vacuum drying apparatus. No. 981,501; Jan. 10; Sp. p. 3002; Gaz. vol. 162; p. 489.
Treier, Oscar, New York, N. Y. Engine valve mechanism. No. 997,105; July 4; Sp. p. 1075; Gaz. vol. 168; p. 174.
Treinis, Samuel, New York, N. Y. Garment. No. 998,999; July 25; Sp. p. 5274; Gaz. vol. 168; p. 939.
Tremblay, Alfred, assignor of one-half to O. F. Moreau, Manchester, N. H. Door-latch. No. 994,800; June 13; Sp. p. 1529; Gaz. vol. 167; p. 281.
Tremmel, George M., and E. Christensen, Two Rivers, Wis. Spring-wheel. No. 987,191; Mar. 21; Sp. p. 3027; Gaz. vol. 164; p. 549.
Tremmel, Henry G. (See Carr, Charles J., assignor.)
Tremoulet, Joseph C., New Orleans, La. Furnace-hood. No. 1,011,675; Dec. 12; Sp. p. 2894; Gaz. vol. 173; p. 483.
Trenary, William F., Marietta, Ga. Pulverizing-machine. No. 984,048; Feb. 14; Sp. p. 1733; Gaz. vol. 163; p. 298.
Trenary, William F., Marietta, Ga. Centrifugal pump. No. 984,456; Feb. 14; Sp. p. 2585; Gaz. vol. 163; p. 437.
Trenkamp Stove & Manufacturing Company, The. (See Geurink, Bernard A., assignor.)
Trent, Lemartine C., Reno, Nev. Roller ore-crusher. No. 986,608; Mar. 14; Sp. p. 1807; Gaz. vol. 164; p. 321.
Trenton Iron Company, The. (See Hewitt, William, assignor.)
Trenton Iron Company, The. (See Webber, Samuel S., assignor.)
Trepreau, Alexandre, Joinville-le-Pont, Seine, France. Electric heating apparatus. No. 998,269; July 18; Sp. p. 3636; Gaz. vol. 168; p. 650.
Trepreau, Alexandre, Joinville-le-Pont, France. Apparatus for heating water. No. 1,009,354; Nov. 21; Sp. p. 3860; Gaz. vol. 172; p. 672.

Alphabetical list of patentees—Continued.

Tresckow, Leon von, New Orleans, La. Continuous decanter. No. 990,022; Apr. 18; Sp. p. 3706; Gaz. vol. 165; p. 642.
Trescott, Charles B., San Francisco, Cal., assignor to H. L. Millis, Chicago, Ill. Apparatus for curing food products. No. 1,010,327; Nov. 28; Sp. p. 5865; Gaz. vol. 172; p. 1045.
Trestman, Leon, assignor of one-half to I. Schereschewsky, New York, N. Y. Flat-iron with detachable handle. No. 1,012,481; Dec. 19; Sp. p. 4619; Gaz. vol. 173; p. 792.
Trevithick, Frederick H., Zeitoun, Cairo, Egypt. Steam-generator of the locomotive type. No. 1,001,712; Aug. 29; Sp. p. 5369; Gaz. vol. 169; p. 990.
Triantafilu, Nicholas, New Britain, Conn. Creeper. No. 985,954; Mar. 7; Sp. p. 420; Gaz. vol. 164; p. 67.
Triantafilu, Nicholas, New Britain, Conn. Lock. No. 986,657; Mar. 14; Sp. p. 1919; Gaz. vol. 164; p. 338.
Triantafilu, Nicholas, New Britain, Conn. Door-lock. No. 1,002,097; Aug. 29; Sp. p. 6181; Gaz. vol. 169; p. 1118.
Triftshauser, John, Hornell, N. Y. Lubrication apparatus. No. 982,906; Jan. 31; Sp. p. 5998; Gaz. vol. 162; p. 1051.
Trigg, John H., Corinth, Ky. Hoe. No. 996,686; July 4; Sp. p. 176; Gaz. vol. 168; p. 31.
Trimble, Charles P., Pittsburg, Pa. Clamping device for building constructions. No. 1,000,212; Aug. 8; Sp. p. 2121; Gaz. vol. 169; p. 377.
Trimble, Charles P., Pittsburg, Pa. Clamping device for building constructions. No. 1,000,213; Aug. 8; Sp. p. 2123; Gaz. vol. 169; p. 378.
Trimble, James A., Farrar, Iowa. Seed-corn drier and hanger. No. 985,230; Feb. 28; Sp. p. 4277; Gaz. vol. 163; p. 774.
Trimmer, Frank W. (See Macklin, Harbison, and Trimmer.)
Trimont Manufacturing Company. (See Vinton, John H., assignor.)
Trinks, Franz. (See Werner and Trinks.)
Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,007,618; Oct. 31; Sp. p. 6743; Gaz. vol. 171; p. 1213.
Trinque, Oliver, East Douglass, Mass. Furniture-foot socket. No. 1,000,308; Aug. 8; Sp. p. 2307; Gaz. vol. 169; p. 409.
Tripp, Harry C., New York, N. Y. Underfeed stoker. No. 997,220; July 4; Sp. p. 1308; Gaz. vol. 168; p. 213.
Trippe, Fritz, Dortmund, assignor to Gewerkschaft Dorstfeld, Dorstfeld, Germany. Rock loosening and impregnating device. No. 999,000; July 25; Sp. p. 5275; Gaz. vol. 168; p. 939.
Triquet, Paul G., Paris, France, assignor to Societe Anonyme des Perfectionnements aux Lampes Electriques à Filaments Metalliques, Brussels, Belgium. Implement for manipulating and mounting filaments of electric incandescent lamps. No. 989,735; Apr. 18; Sp p. 3094; Gaz. vol. 165; p. 544.
Trist, Arthur R., assignor to Trist Piano Player Limited, London, England. Piano-playing mechanism and the like. No. 1,009,268; Nov. 21; Sp. p. 3671; Gaz. vol. 172; p. 640.
Trist Piano Player Limited. (See Trist, Arthur R., assignor.)
Trites, Elias S. (See Lefever, Charles F., assignor.)
Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 980,707; Jan. 3; Sp. p. 1147; Gaz. vol. 162; p. 183.
Triumph Couch-Bed Co. (See Hammond, William P., assignor.)
Triumph Electric Company, The. (See Thullen, Louis H., assignor.)
Triumph Laundry Machinery Company, The. (See Brockardt, Paul L., assignor.)
Triumph Voting Machine Company. (See Abbott, Charles C., assignor.)
Troendle, Joseph F., Toledo, Ohio. Shaft-hanger. No 991,184; May 2; Sp. p. 758; Gaz. vol. 166; p. 129.
Trog, Carl, assignor to Anker-Werke Actiengesellschaft vormals Hengstenberg & Co., Bielefeld, Germany. Cash-register. No. 995,501; June 20; Sp. p. 3059; Gaz. vol. 167; p. 545.
Trog, Carl, assignor to Company Anker-Werke A. G. vormals Hengstenberg & Co., Bielefeld, Germany. Automatic intermittent coupling. No. 1,006,806; Oct. 24; Sp. p. 4954; Gaz. vol. 171; p. 877.
Trogdon, George D., Toccoa, Ga. Feed attachment for hand-jointers. No. 986,782; Mar. 14; Sp. p. 2169; Gaz. vol. 164; p. 378.
Trogdon, George D., Toccoa, Ga. Feed-rollers. No. 997,479; July 11; Sp. p. 1818; Gaz. vol. 168; p. 329.
Troike, Ernst, Sandusky, Ohio. Engine-muffler. No. 990,686; Apr. 25; Sp. p. 5226; Gaz. vol. 165; p. 902.
Trombley, George, assignor of one-half to A. P. Smith, Bloomingdale, N. Y. Stamp-vending machine. No. 986,247; Mar. 7; Sp. p. 1027; Gaz. vol. 164; p. 165.
Trombly, Jerry M., Highgate Center, Vt. Extension window-shade and curtain-rod fixture. No. 988,838; Apr. 4; Sp. p. 1165; Gaz. vol. 165; p. 186.
Troop, Alfred E. (See Chamberlain and Troop.)
Trosky, Bernhard, *et al.* (See Williams, David C., assignor.)
Trosper, James W., Tekoa, Wash. Dental pliers for holding teeth. No. 1,007,824; Nov. 7; Sp. p. 395; Gaz. vol. 172; p. 62.
Trostler, William, *et al.* (See Risbridger, William C. and M. W., assignors.)
Troth, Harry W., Philadelphia, Pa., assignor to Victor Talking Machine Company. Cabinet-latch for talking-machines. No. 997,343; July 11; Sp. p. 1578; Gaz. vol. 168; p. 286.
Troth, Thomas O., Millville, N. J. Sleeve-board support. No. 1,006,027; Oct. 17; Sp. p. 3191; Gaz. vol. 171; p. 573.
Trotman, Walter K., Wood Green, London, England. Apparatus for watermarking paper. No. 984,618; Feb. 21; Sp. p. 2977; Gaz. vol. 163; p. 528.
Trott, Rolland S., Denver, Colo. Rock-drill. No. 981,036; Jan. 10; Sp. p. 1974; Gaz. vol. 162; p. 326.
Trott, Rolland S., Denver, Colo. Lubricating and packing system for explosive-engines. No. 992,458; May 16; Sp. p. 3496; Gaz. vol. 166; p. 629.
Trotter, George C., Mount Oliver, assignor of one-half to J. W. Kraus, Mount Oliver borough, Allegheny county, Pa. Shutter. No. 1,005,584; Oct. 10; Sp. p. 2247; Gaz. vol. 171; p. 387.
Trottier, René E., Hussein-Dey, France. Apparatus for classifying and concentrating ores. No. 981,230; Jan. 10; Sp. p. 2440; Gaz. vol. 162; p. 395.
Troupenat, Othon, Beauvais, France. Safety device for saws. No. 997,720; July 11; Sp. p. 2352; Gaz. vol. 168; p. 413.
Trout, Walter C., Lufkin, Tex., and W. H. Trout, Milwaukee, Wis., assignors to said Walter C. Trout and Lufkin Foundry and Machine Company. Soda-tank for dipping lumber. No. 1,011,280; Dec. 12; Sp. p. 1997; Gaz. vol. 173; p. 343.
Trout, William H. (See Trout, Walter C. and W. H.)
Trout, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Sawmill set-works. No. 995,205; June 13; Sp. p. 2395; Gaz. vol. 167; p. 416.
Trout, William H., assignor to Allis-Chalmers Company, Milwaukee, Wis. Saw-guide. No. 995,991; June 20; Sp. p. 4123; Gaz. vol. 167; p. 718.
Troutman, Percival H., Canon City, Colo. Orchard-heater. No. 1,009,027; Nov. 14; Sp. p. 3121; Gaz. vol. 172; p. 519.
Troutman, Percival H., Canon City, Colo. Open-air heating device. No. 1,009,603; Nov. 21; Sp. p. 4392; Gaz. vol. 172; p. 756.
Trow, Frederick H., Leonia, N. J. Washtub-cover. No. 993,329; May 23; Sp. p. 5340; Gaz. vol. 166; p. 957.
Trowbridge, Amasa, assignor to Veeder Manufacturing Company, Hartford, Conn. Speed-indicator. No. 983,096; Jan. 31; Sp. p. 6413; Gaz. vol. 162; p. 1114.
Trowbridge, Amasa, assignor to The Veeder Manufacturing Company, Hartford, Conn. Odometer. No. 1,002,011; Aug. 29; Sp. p. 6024; Gaz. vol. 169; p. 1090.
Trowbridge, Frank C. (See Kutter, Herman L., assignor.)
Troy Carriage Sun Shade Company, The. (See Dillingham, Frederick A., assignor.)
Troy, Daniel W., Montgomery, Ala. Apparatus for advertising. No. 1,004,503; Sept. 26; Sp. p. 5078; Gaz. vol. 170; p. 894.
Troy, Hugh C., Ithaca, N. Y. Milk-testing bottle. No. 988,155; Mar. 28; Sp. p. 5113; Gaz. vol. 164; p. 906.
Troy Laundry Machinery Company. (See Bartholomew, William, assignor.)
Troy Laundry Machinery Company. (See Bartholomew and Balzer, assignors.)
Troy Laundry Machinery Company. (See Bartholomew and Phillips, assignors.)
Troy Laundry Machinery Company. (See Wilcox, Henry S., assignor.)
Troy, Matthew O., Schenectady, N. Y., assignor to General Electric Company. Transformer. No. 1,008,623; Nov. 14; Sp. p. 2253; Gaz. vol. 172; p. 383.
Troy Scale Company. (See Kelley, Frederick A. W., assignor.)
Troy Telephone Specialty Company. (See Grauel, Edwin L., assignor.)
Truckers Crate and Barrel Company, The. (See Robinson, Edward W., assignor.)
Trudeau, Louis. (See Belodeau and Trudeau.)
True, Charles H., Ravinia, assignor to The Railway Materials Company, Chicago, Ill. Brake-shoe. No. 992,297; May 16; Sp. p. 3149; Gaz. vol. 166; p. 573.
True, George A., assignor of one-half to Northern Engineering Works, Detriot, Mich. Crane. No. 981,820; Jan. 17; Sp. p. 3669; Gaz. vol. 162; p. 620.
True, Harry U., Brighton, Mass. Hand-grip. No. 1,012,299; Dec. 19; Sp. p. 4277; Gaz. vol. 173; p. 734.
True, Henry W., Cambridge, Mass. Fuel-support. No. 1,002,012; Aug. 29; Sp. p. 6025; Gaz. vol. 169; p. 1090.
True, William D., *et al.* (See Gratigny, Ralph K., assignor.)
Truesdale, Andrew, and W. S. Virgin, Washington, D. C.; said Truesdale assignor to said Virgin. Surgical atomizer. No. 984,619; Feb. 21; Sp. p. 2979; Gaz. vol. 163; p. 529.
Truesdale, Eddie P., Camden, S. C. Safety attachment for razors. No. 1,012,756; Dec. 26; Sp. p. 5213; Gaz. vol. 173; p. 934.

Truesdell, George A., New York, N. Y. Line-fastener. No. 1,009,808; Nov. 28; Sp. p. 4811; Gaz. vol. 172; p. 872.
Truitt, William B., Greensboro, N. C. Dividing-engine. No. 997,522; July 11; Sp. p. 1913; Gaz. vol. 168; p. 343.
Trull, Herbert A., assignor, by mesne assignments, to W. H. McElwain Company, Boston, Mass. Protector for shoe-uppers. No. 997,023; July 4; Sp. p. 922; Gaz. vol. 168; p. 146.
Trulock, Charles W., Los Angeles, Cal. Incandescent-lamp lock. No. 992,084; May 9; Sp. p. 2634; Gaz. vol. 166; p. 469.
Trulove, John C., Shoals, N. C. Water-carrier. No. 989,449; Apr. 11; Sp. p. 2444; Gaz. vol. 165; p. 413.
Truman, Charles, assignor of one-half to C. V. Urschel, Toledo, and J. W. Urschel, Bowling Green, Ohio. Die and tap holder for threading devices for automatic screw-machines. No. 985,231; Feb. 28; Sp. p. 4278; Gaz. vol. 163; p. 774.
Truman, Joseph F., Butler, Pa. Adjustable cake-pan. No. 993,914; May 30; Sp. p. 6601; Gaz. vol. 166; p. 1190.
Truman, Percival H., assignor to O. R. Barnett, Chicago, Ill. Rail-stay. No. 1,004,603; Oct. 3; Sp. p. 119; Gaz. vol. 171; p. 21.
Trumble, Milon J., assignor, by mesne assignments, to Trumble Refining Company, Los Angeles, Cal. Evaporator for petroleum-oils or other liquids. No. 996,736; July 4; Sp. p. 269; Gaz. vol. 168; p. 47.
Trumble, Milon J., assignor, by mesne assignments, to Trumble Refining Company, Los Angeles, Cal. Apparatus for refining petroleums. No. 1,002,474; Sept. 5; Sp. p. 667; Gaz. vol. 170; p. 96.
Trumble Refining Company. (See Trumble, Milon J., assignor.)
Trumbull Electric Manufacturing Company, The. (See Hebden, George R., assignor.)
Trumbull, Oscar W., Palmyra, N. Y. Cutting-machine. No. 999,918; Aug. 8; Sp. p. 1454; Gaz. vol. 169; p. 276.
Trump, Edward N. (See Pennock, Witherby, Blauvelt, Trump, and Tufts.)
Trump, Fuller, assignor to P. A. Staley and J. F. Trump, receivers, Springfield, Ohio. Bearing for water-wheels. No. 993,420; May 30; Sp. p. 5559; Gaz. vol. 166; p. 1021.
Trump, J. F., *et al.*, receivers. (See Trump, Fuller, assignor.)
Truscott, Charles O. (See Towns, Elson, assignor.)
Trussed Concrete Steel Company. (See Kahn, Julius, assignor.)
Trussed Concrete Steel Company. (See Kane, Thomas H., assignor.)
Trusts and Guarantee Company, The, administrator. (See Crawford, Abner W.)
Truxal, Winfield S., Homestead, Pa. Rail and rail-joint. No. 985,475; Feb. 28; Sp. p. 4827; Gaz. vol. 163; p. 858.
Tryon Auto Pump Company, The. (See Tryon, Edward E., assignor.)
Tryon, Edward E., West Hartford, Conn., assignor to The Tryon Auto Pump Company, New York, N. Y. Air-pump. No. 985,476; Feb. 28; Sp. p. 4829; Gaz. vol. 163; p. 858.
Tschop, James E., Lebanon, Pa. Measuring and marking instrument. No. 986,783; Mar. 14; Sp. p. 2172; Gaz. vol. 164; p. 379.
Tschudy, Fred, Birmingham, Ala. Compensating device for furnaces. No. 994,892; June 13; Sp. p. 1773; Gaz. vol. 167; p. 312.
Tubergen, George J., Grand Rapids, Mich. Vending-machine. No. 1,000,857; Aug. 15; Sp. p. 3534; Gaz. vol. 169; p. 635.
Tubes Limited. (See Reinhard, Henry, assignor.)
Tucholski, John, and A. E. Koziczenski, Racine, Wis. Woodworking-tool. No. 992,392; May 16; Sp. p. 3377; Gaz. vol. 166; p. 608.
Tucker, Benjamin W., Newark, N. J., assignor to The American Tobacco Company, New York, N. Y. Tube-making machine. No. 994,801; June 13; Sp. p. 1531; Gaz. vol. 167; p. 282.
Tucker, Benjamin W., Newark, N. J., assignor to The American Tobacco Company, New York, N. Y. Packing-machine. No. 998,936; July 25; Sp. p. 5118; Gaz. vol. 168; p. 917.
Tucker, Bertram M., Mooers Forks, N. Y. Combined milking-stool and pail-support. No. 1,010,535; Dec. 5; Sp. p. 300; Gaz. vol. 173; p. 47.
Tucker, Clarence E., assignor of one-half to D. F. Grant, Philadelphia, Pa., one-fourth to E. S. Tucker, Washington, D. C., and one-fourth to L. L. Tucker, Waltham, Mass. Non-refillable bottle. No. 1,009,944; Nov. 28; Sp. p. 5081; Gaz. vol. 172; p. 916.
Tucker, Curtis A., Edgewood Park, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Contact member for electric switching devices. No. 981,821; Jan. 17; Sp. p. 3670; Gaz. vol. 162; p. 621.
Tucker, Edwin W., San Francisco, Cal. Liquid-fuel-burning system. No. 996,737; July 4; Sp. p. 272; Gaz. vol. 168; p. 48.
Tucker, Emory S., *et al.* (See Tucker, Clarence E., assignor.)
Tucker, George D., Meridian, Miss. Swing. No. 1,003,828; Sept. 19; Sp. p. 3559; Gaz. vol. 170; p. 633.
Tucker, Holling G., Hereford, Tex., Vehicle-wheel. No. 992,085; May 9; Sp. p. 2637; Gaz. vol. 166; p. 469.
Tucker, Laurence E., and O. L. Miskell, Upland, Cal. Fruit-packing bench. No. 990,408; Apr. 25; Sp. p. 4583; Gaz. vol. 165; p. 807.
Tucker, Luther L., *et al.* (See Tucker, Clarence E., assignor.)
Tucker, Mary L., New York, N. Y. Geographical-game apparatus. No. 989,209; Apr. 11; Sp. p. 1923; Gaz. vol. 165; p. 333.
Tudhope, Hugh R. (See Begg, Roderick, assignor.)
Tueckmantel, Hugo, Irvington, N. J. Garment-hanger. No. 987,416; Mar. 21; Sp. p. 3503; Gaz. vol. 164; p. 626.
Tuerk, Frederick W., and E. H. Goudie, Chicago, Ill. Window-screen. No. 983,958; Feb. 14; Sp. p. 1531; Gaz. vol. 163; p. 269.
Tufting Machine Supply Company. (See Krueger, Henry L. E., assignor.)
Tufts, Charles G. (See Pennock, Witherby, Blauvelt, Trump, and Tufts.)
Tulane, Axel G., Chicago, Ill. Lawn-mower attachment. No. 1,005,086; Oct. 3; Sp. p. 1100; Gaz. vol. 171; p. 186.
Tulane, Axel G., Chicago, Ill. Lawn-mower. No. 1,006,807; Oct. 24; Sp. p. 4955; Gaz. vol. 171; p. 878.
Tulbovitch, Meyer, New York, N. Y. Vehicle-spring. No. 983,097; Jan. 31; Sp. p. 6415; Gaz. vol. 162; p. 1115.
Tuller, Herman, Bellingham, Wash. Axle. No. 1,001,905; Aug. 29; Sp. p. 5799; Gaz. vol. 169; p. 1056.
Tulley, Francis H., and W. F. Smiester, Brookville, Ind. Sectional roof for silos. No. 1,011,281; Dec. 12; Sp. p. 2000; Gaz. vol. 173; p. 344.
Tullis, Roland L., Sherman, Cal. Gate-latch. No. 1,008,220; Nov. 7; Sp. p. 1237; Gaz. vol. 172; p. 202.
Tully, Bernard, Tiffin, Ohio. Power-transmitting device for automobiles. No. 995,641; June 20; Sp. p. 3386; Gaz. vol. 167; p. 596.
Tully, Robert J., New Castle, Pa. Expansion cutter-head. No. 981,502; Jan. 10; Sp. p. 3004; Gaz. vol. 162; p. 489.
Tumo, Paul, Toleston, Ind. Metallic tie and rail-fastener. No. 1,001,479; Aug. 22; Sp. p. 4870; Gaz. vol. 169; p. 879.
Tunis, Howard H., Baltimore Md., assignor to American Monorail Company. Resilient support for railway-tracks. No. 982,315; Jan. 24; Sp. p. 4743; Gaz. vol. 162; p. 820.
Tunks, Charles A., Cleveland, Ohio. Boring-tool. No. 994,430; June 6; Sp. p. 683; Gaz. vol. 167; p. 117.
Tunnicliff, John C., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Corn-planter. No. 1,000,462; Aug. 15; Sp. p. 2663; Gaz. vol. 169; p. 494.
Tuohy, John, Black Diamond, Cal. Flask-bar. No. 1,003,549; Sept. 19; Sp. p. 2958; Gaz. vol. 170; p. 539.
Tuohy, John, Black Diamond, Cal. Molding-flask. No. 1,005,369; Oct. 10; Sp. p. 1748; Gaz. vol. 171; p. 311.
Tuor, Joseph B., St. Paul, Minn. Removable spout for jacketed cans. No. 984,981; Feb. 21; Sp. p. 3696; Gaz. vol. 163; p. 653.
Turbayne, William A., Lancaster, N. Y., assignor, by mesne assignments, to Gould Coupler Company. Electrical switch. No. 987,192; Mar. 21; Sp. p. 3029; Gaz. vol. 164; p. 549.
Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical regulating apparatus. No. 987,193; Mar. 21; Sp. p. 3032; Gaz. vol. 164; p. 550.
Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 987,194; Mar. 21; Sp. p. 3037; Gaz. vol. 164; p. 550.
Turbayne, William A., Lancaster, N. Y., assignor, by mesne assignments, to Gould Coupler Company. Electrical system of distribution. No. 991,105; May 2; Sp. p. 572; Gaz. vol. 166; p. 100.
Turbayne, William A., Lancaster, N. Y., assignor, by mesne assignments, to Gould Coupler Company. Electrical system of distribution. No. 991,106; May 2; Sp. p. 576; Gaz. vol. 166; p. 100.
Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 991,108; May 2; Sp. p. 584; Gaz. vol. 166; p. 101.
Turbayne, William A. Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 991,109; May 2; Sp. p. 587; Gaz. vol. 166; p. 101.
Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 991,110; May 2; Sp. p. 592; Gaz. vol. 166; p. 102.
Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 991,111; May 2; Sp. p. 595; Gaz. vol. 166; p. 102.
Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 991,112; May 2; Sp. p. 600; Gaz. vol. 166; p. 103.
Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Charging apparatus. No. 991,113; May 2; Sp. p. 605; Gaz. vol. 166; p. 103.
Turbayne, William A., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 991,114; May 2; Sp. p. 608; Gaz. vol. 166; p. 104.
Turbayne, William A., Lancaster, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 987,270; Mar. 21; Sp. p. 3198; Gaz. vol. 164; p. 578.

Alphabetical list of patentees—Continued.

Turbayne, William A., Lancaster, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 991,107; May 2; Sp. p. 580; Gaz. vol. 166; p. 101.
Turbeville, John B., Cleburne, Tex. Cook-stove. No. 1,010,536; Dec. 5; Sp. p. 301; Gaz. vol. 173; p. 48.
Turck, Joseph A., Providence, R. I., assignor, by mesne assignments, to Buttonholes, Incorporated, New York, N. Y. Buttonhole cutting and stitching attachment for sewing-machines. No. 989,668; Apr. 18; Sp. p. 2952; Gaz. vol. 165; p. 520.
Turck, Joseph A., Providence, R. I., assignor, by mesne assignments, to Buttonholes, Incorporated, New York, N. Y. Buttonhole cutting and stitching attachment for sewing-machines. No. 990,610; Apr. 25; Sp. p. 5036; Gaz. vol. 165; p. 877.
Turek, Joe, Christopher, Ill. Operating mechanism for street-indicators. No. 1,007,507; Oct. 31; Sp. p. 6500; Gaz. vol. 171; p. 1175.
Turgeon, George V., Auburn, Me. Rod-suspender. No. 1,007,755; Nov. 7; Sp. p. 233; Gaz. vol. 172; p. 37.
Turk, Hugo, Iserohlm, Germany. Bottle-closure. No. 1,010,396; Nov. 28; Sp. p. 6020; Gaz. vol. 172; p. 1067.
Turkis, Charles F. (See Bradshaw, Julius C., assignor.)
Turley, Leslie C., *et al.* (See Ross, Robert J., assignor.)
Turmelle, Louis T., Lake Etchemin, Quebec, Canada. Automatic swing. No. 989,517; Apr. 11; Sp. p. 2594; Gaz. vol. 165; p. 437.
Turnage, Benjaman H., Blenheim, S. C. Lubricator. No. 995,389; June 13; Sp. p. 2802; Gaz. vol. 167; p. 477.
Turnbull, Andrew, assignor to The Stanley Rule & Level Company, New Britain, Conn. Miter-box. No. 997,221; July 4; Sp. p. 1312; Gaz. vol. 168; p. 214.
Turnbull, James C., and B. J. Hatlay, Fenwick, W. Va. Vehicle-brake. No. 999,919; Aug. 8; Sp. p. 1457; Gaz. vol. 169; p. 276.
Turnbull, James M. (See Flinchbaugh, Frederick T., assignor.)
Turnbull, John. (See Parsons, Cook, and Turnbull.)
Turnbull, Luke W. (See Brown, John E., assignor.)
Turnbull, Nicholas K., Manchester, England. Machine for forming wire-drawing dies or plates. No. 1,008,442; Nov. 14; Sp. p. 1843; Gaz. vol. 172; p. 317.
Turnbull, Thomas, Jr., Pittsburg, Pa. Internal-combustion engine. No. 983,583; Feb. 7; Sp. p. 718; Gaz. vol. 163; p. 111.
Turnbull, Walter J., New Orleans, La. Torpedo or bomb. No. 983,786; Feb. 7; Sp. p. 1129; Gaz. vol. 163; p. 181.
Turnbull, Werd W., Columbus, Ohio. Baking-machine. No. 1,009,355; Nov. 21; Sp. p. 3862; Gaz. vol. 172; p. 672.
Turner Automatic Switch Company. (See Turner, John B., assignor.)
Turner, Benjamin F. (See Burdick, Frank W., assignor.)
Turner, Charles, and R. F. Schroeder, assignors of three-fourths to C. Turner and one-fourth to R. F. Schroeder, Chicago, Ill. Extracting oils from solids. No. 985,862; Mar. 7; Sp. p. 214; Gaz. vol. 164; p. 35.
Turner, Charles, and R. F. Schroeder, assignors of three-fourths to C. Turner and one-fourth to R. F. Schroeder, Chicago, Ill. Oil-extracting apparatus. No. 985,863; Mar. 7; Sp. p. 217; Gaz. vol. 164; p. 36.
Turner, Charles C., Salem, Mass. Concrete-mixer. No. 995,047; June 13; Sp. p. 2099; Gaz. vol. 167; p. 365.
Turner, Charles F., assignor of one-fourth to E. Williams, one-fourth to H. Le Roy, and one-fourth to E. J. Dockery, Boise, Idaho. Headlight-adjuster. No. 984,620; Feb. 21; Sp. p. 2980; Gaz. vol. 163; p. 529.
Turner, Charles H., Belvidere, Ill. Collar. No. 992,459; May 16; Sp. p. 3497; Gaz. vol. 166; p. 630.
Turner, Claude A. P., Minneapolis, Minn. Steel-skeleton concrete construction. No. 985,119; Feb. 21; Sp. p. 3964; Gaz. vol. 163; p. 700.
Turner, Claude A. P., Minneapolis, Minn. Concrete arch-bridge. No. 1,002,944; Sept. 12; Sp. p. 1717; Gaz. vol. 170; p. 297.
Turner, Claude A. P., Minneapolis, Minn. Short-span flat-slab bridge. No. 1,002,945; Sept. 12; Sp. p. 1718; Gaz. vol. 170; p. 297.
Turner, Claude A. P., Minneapolis, Minn. Steel-skeleton concrete construction. No. 1,003,384; Sept. 12; Sp. p. 2607; Gaz. vol. 170; p. 448.
Turner, Darius L. (See Greer and Turner.)
Turner, Edward T., Dayton, Ohio. Feed-water heater. No. 981,901; Jan. 17; Sp. p. 3849; Gaz. vol. 162; p. 649.
Turner, Edwin E. (See Eno, Frank F., assignor.)
Turner, Estey M., Pasadena, Cal. Phonograph. No. 983,183; Jan. 31; Sp. p. 6560; Gaz. vol. 162; p. 1142.
Turner Flexible Inersole Co. (See Fraser, Warren F., assignor.)
Turner, Francis D., and N. D. Corser, Salt Lake City, Utah. Folding brace. No. 1,006,316; Oct. 17; Sp. p. 3862; Gaz. vol. 171; p. 675.
Turner, George T., assignor to Gurney Scale Co., Hamilton, Ontario, Canada. Railway track-scale. No. 1,012,935; Dec. 26; Sp. p. 5667; Gaz. vol. 173; p. 995.
Turner, Gilbert, Falconer, N. Y. Mold for burial-cases. No. 1,010,821; Dec. 5; Sp. p. 927; Gaz. vol. 173; p. 146.
Turner, Gilbert, White Plains, N. Y. Bottle-closure. No. 1,011,282; Dec. 12; Sp. p. 2001; Gaz. vol. 173; p. 344.
Turner, Guy S., Memphis, Tenn. Seal. No. 989,450; Apr. 11; Sp. p. 2446; Gaz. vol. 165; p. 414.
Turner, Harry C., Los Angeles, Cal. Shock-absorber. No. 1,009,454; Nov. 21; Sp. p. 4103; Gaz. vol. 172; p. 707.
Turner, Harry Q., *et al.* (See Ivor, Barry, assignor.)
Turner, James W., assignor to C. T. Patterson Company Limited, New Orleans, La. Chain-conveyer flight. No. 1,001,097; Aug. 22; Sp. p. 4112; Gaz. vol. 169; p. 754.
Turner, John, Uxbridge, assignor to The Rubber Patents Limited of Orb Works, Cowley, England. Playing-ball case. No. 1,002,789; Sept. 5; Sp. p. 1344; Gaz. vol. 170; p. 203.
Turner, John B., assignor to Turner Automatic Switch Company, Fort Smith, Ark. Automatic switch. No. 993,476; May 30; Sp. p. 5679; Gaz. vol. 166; p. 1039.
Turner, John C., assignor to The Schieble Toy & Novelty Company, Dayton, Ohio. Toy. No. 985,078; Feb. 21; Sp. p. 3889; Gaz. vol. 163; p. 687.
Turner, Joseph, and H. Dean, Huddersfield, England. Direct-dyeing cotton-dyestuff. No. 987,417; Mar. 21; Sp. p. 3506; Gaz. vol. 164; p. 626.
Turner, Joseph L., Philadelphia, Pa., and C. E. Vanderkleed, Collingswood, N. J., assignors to H. K. Mulford Company, Philadelphia, Pa. Preparing bismuth beta-naphtholate. No. 985,559; Feb. 28; Sp. p. 5010; Gaz. vol. 163; p. 887.
Turner, Lawrence R., Long Pine, Nebr. Marker attachment. No. 985,643; Feb. 28; Sp. p. 5172; Gaz. vol. 163; p. 914.
Turner, Marvin E., Lookout Mountain, Tenn. Pen-nib. No. 989,451; Apr. 11; Sp. p. 2446; Gaz. vol. 165; p. 414.
Turner, Newton H., Royersford, Pa. Car-fender. No. 1,011,677; Dec. 12; Sp. p. 2896; Gaz. vol. 173; p. 484.
Turner, Otto F. (See Maple and Turner.)
Turner, Samuel W., Canonbury, London, England, assignor to Yost Writing Machine Company, Ilion, N. Y. Type-writing machine. No. 1,008,394; Nov. 14; Sp. p. 1716; Gaz. vol. 172; p. 302.
Turner Tanning Machinery Company, The. (See Perkins, Franklin J., assignor.)
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Control-valve for water-jacketed pumps. No. 985,864; Mar. 7; Sp. p. 220; Gaz. vol. 164; p. 36.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake. No. 988,604; Apr. 4; Sp. p. 679; Gaz. vol. 165; p. 108.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake. No. 994,220; June 6; Sp. p. 249; Gaz. vol. 167; p. 43.
Turner, Walter V., Edgewood, assignor to Westinghouse Air Brake Company, Pittsburg, Pa. Duplex pressure-control apparatus. No. 997,523; July 11; Sp. p. 1915; Gaz. vol. 168; p. 343.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Pressure-governor for pumps. No. 1,003,163; Sept. 12; Sp. p. 2151; Gaz. vol. 170; p. 370.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Pressure-control apparatus for fluid-pressure brakes. No. 1,004,110; Sept. 26; Sp. p. 4268; Gaz. vol. 170; p. 761.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburg, Pa. Fluid-pressure brake. No. 1,004,111; Sept. 26; Sp. p. 4270; Gaz. vol. 170; p. 761.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Electric-pump governor. No. 1,004,943; Oct. 3; Sp. p. 851; Gaz. vol. 171; p. 139.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Electric signal system. No. 1,011,527; Dec. 12; Sp. p. 2538; Gaz. vol. 173; p. 430.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. High-pressure-service brake. No. 1,011,528; Dec. 12; Sp. p. 2539; Gaz. vol. 173; p. 431.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Train-pipe release-valve. No. 1,011,529; Dec. 12; Sp. p. 2545; Gaz. vol. 173; p. 431.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Brake-pipe-vent-valve device. No. 1,012,757; Dec. 26; Sp. p. 5214; Gaz. vol. 173; p. 934.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. Fluid-pressure brake. No. 1,012,759; Dec. 26; Sp. p. 5218; Gaz. vol. 173; p. 935.
Turner, Walter V., Edgewood, assignor to The Westinghouse Air Brake Company, Pittsburgh, Pa. High-pressure emergency-brake. No. 1,012,760; Dec. 26; Sp. p. 5221; Gaz. vol. 173; p. 935.
Turner, Walter V., and W. M. Cady, Edgewood, assignors to The Westinghouse Air Brake Company, Pittsburgh, Pa. Duplex pressure-control apparatus. No. 1,012,758; Dec. 26; Sp. p. 5215; Gaz. vol. 173; p. 935.

Alphabetical list of patentees—Continued.

Turner, William A., Portland, Me. Shoe. No. 989,084; Apr. 11; Sp. p. 1674; Gaz. vol. 165; p. 291.
Turner, William B., Melrose, assignor to Leather Finishing Machine Company, Boston, Mass. Leather-glazing machine. No. 982,398; Jan. 24; Sp. p. 4906; Gaz. vol. 162; p. 850.
Turner, William B., assignor to Leather Finishing Machine Company, Boston, Mass. Leather-glazing machine. No. 1,007,160; Oct. 31; Sp. p. 5756; Gaz. vol. 171; p. 1054.
Turner, William C., Casey, Ill. Water-wheel. No. 980,708; Jan. 3; Sp. p. 1149; Gaz. vol. 162; p. 183.
Turner, William H., Jr., Amsterdam, N. Y. Embalming instrument. No. 985,865; Mar. 7; Sp. p. 223; Gaz. vol. 164; p. 37.
Turner, William J., assignor to Putnam Foundry and Machine Company, Providence, R. I. Automatic damper-regulator. No. 986,658; Mar. 14; Sp. p. 1921; Gaz. vol. 164; p. 338.
Turney, Daniel T., New Albany, Ind. Molder's flask. No. 1,008,221; Nov. 7; Sp. p. 1239; Gaz. vol. 172; p. 202.
Turney, Eugene T., assignor to Artista Piano Player Co., Rock Island, Ill. Equalizer for pneumatic actions. No. 988,409; Apr. 4; Sp. p. 258; Gaz. vol. 165; p. 42.
Turney, Eugene T., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Check-controlled mechanism. No. 988,410; Apr. 4; Sp. p. 262; Gaz. vol. 165; p. 42.
Turney, Eugene T., Rock Island, assignor to The Artista Piano Player Company, Milan, Ill. Folding treadle for piano-playing attachments. No. 997,344; July 11; Sp. p. 1580; Gaz. vol. 168; p. 286.
Turney, Eugene T., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Fall-board for pianos and the like. No. 998,135; July 18; Sp. p. 3337; Gaz. vol. 168; p. 601.
Turney, Eugene T., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Treadle for piano-playing attachments. No. 998,136; July 18; Sp. p. 3338; Gaz. vol. 168; p. 602.
Turney, Eugene T., Rock Island, assignor to Artista Piano Player Company, Milan, Ill. Automatic-piano-player treadle. No. 1,000,463; Aug. 15; Sp. p. 2665; Gaz. vol. 169; p. 495.
Turney, Harry L., Portland, Oreg. Logging-hook. No. 1,005,370; Oct. 10; Sp. p. 1749; Gaz. vol. 171; p. 312.
Turney, James M. (See Larsen, Turney, and Oakes.)
Turon, Peter, Los Angeles, Cal. Front-wheel drive for automobiles. No. 1,012,936; Dec. 26; Sp. p. 5668; Gaz. vol. 173; p. 995.
Turpin, Ernest, Dannevirke, assignor of one-half to G. Wright, Waitahova, New Zealand. Apparatus for sharpening knives of chaff-cutters. No. 984,049; Feb. 14; Sp. p. 1739; Gaz. vol. 163; p. 299.
Turton, Charles M., Los Angeles, Cal. Holding means. No. 989,085; Apr. 11; Sp. p. 1675; Gaz. vol. 165; p. 291.
Turton, Charles M., Los Angeles, Cal. Type-writer attachment. No. 998,814; July 25; Sp. p. 4837; Gaz. vol. 168; p. 874.
Tussey, Frank W., *et al.*, trustees. (See Kenevel, Jeannot W., assignor.)
Tuteur, Julius, Cleveland, Ohio. Hanger for joists. No. 996,687; July 4; Sp. p. 178; Gaz. vol. 168; p. 32.
Tuthill, Harry H., New Suffolk, N. Y. Concrete piling for bulkheads. No. 1,004,828; Oct. 3; Sp. p. 599; Gaz. vol. 171; p. 99.
Tuthill, Victor M., *et al.* (See Sage, Hayden W., assignor.)
Tuttle, Calvin B., Lynn, Mass., assignor to United-Xpedite Finishing Company, Berwick, Me. Machine for finishing heels and soles for boots and shoes. No. 993,477; May 30; Sp. p. 5682; Gaz. vol. 166; p. 1040.
Tuttle, Daniel M., Canastota, N. Y. Internal-combustion engine. No. 994,696; June 6; Sp. p. 1266; Gaz. vol. 167; p. 206.
Tuttle, Gutie H. (See Kent and Tuttle.)
Tuttle, Henry W., Chicago, Ill. Mangle. No. 989,669; Apr. 18; Sp. p. 2954; Gaz. vol. 165; p. 521.
Tuttle, Ivory A., Oneonta, N. Y. Bedclothes-holder. No. 985,477; Feb. 28; Sp. p. 4833; Gaz. vol. 163; p. 859.
Tuttle, John J., assignor of one-half to W. W. Durward, Davenport, Iowa. Mail-carrying device. No. 984,402; Feb. 14; Sp. p. 2476; Gaz. vol. 163; p. 419.
Tuttle, Josiah S., Kansas City, Mo., assignor to The Geo. Ertel Company, Quincy, Ill. Merry-go-round. No. 1,010,537; Dec. 5; Sp. p. 303; Gaz. vol. 173; p. 48.
Tuttle, Ralph P., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 980,709; Jan. 3; Sp. p. 1151; Gaz. vol. 162; p. 184.
Tuttle, Washington I., Baltimore, Md. Box. No. 994,221; June 6; Sp. p. 251; Gaz. vol. 167; p. 43.
Tuttle, Washington I., Baltimore, Md. Box. No. 994,222; June 6; Sp. p. 252; Gaz. vol. 167; p. 43.
Tuttle, William R., Meadville, Pa. Loader for concrete-batch mixers. No. 994,802; June 13; Sp. p. 1539; Gaz. vol. 167; p. 282.
Tutton, Alfred, Boston, Mass. Laundry-net clamp. No. 985,714; Feb. 28; Sp. p. 5362; Gaz. vol. 163; p. 939.
Twaddell, Otis H., *et al.* (See Kangas, Frank O., assignor.)
Twaddell, Sneed H., *et al.* (See Kangas, Frank O., assignor.)
Tweedale, Charles L., Weston, near Otley, England. Kite and similar aerial machine. No. 992,086; May 9; Sp. p. 2638; Gaz. vol. 166; p. 470.
Tweedie, Charles, Jefferson City, Mo. Lasting button-boots. No. 984,868; Feb. 21; Sp. p. 3489; Gaz. vol. 163; p. 616.
Tweedy, Charles F., Minneapolis, Minn. Oil-burner. No. 990,083; Apr. 18; Sp. p. 3820; Gaz. vol. 165; p. 662.
Tweedy, John N., assignor of one-half to F. Lamb, Worden, Ill. Acetylene-gas generator. No. 986,784; Mar. 14; Sp. p. 2173; Gaz. vol. 164; p. 379.
Twentieth Century Drill Company. (See English, Peter, assignor.)
Twentieth Century Machinery Company, The. (See Volz, Simon, assignor.)
20th Century Machinery Company, The. (See Weiss, George, assignor.)
Twiss, George V., Wimbledon Park, assignor of one-half to W. R. Comings, county of Surrey, England. Form for boots or shoes. No. 985,232; Feb. 28; Sp. p. 4282; Gaz. vol. 163; p. 775.
Twiss, Nelson W., New Haven, Conn. Liberating cut-off-valve gear. No. 1,006,808; Oct. 24; Sp. p. 4956; Gaz. vol. 171; p. 878.
Twitchell, Charles R., Los Angeles, Cal. Fastening for demountable rims. No. 1,008,573; Nov. 14; Sp. p. 2147; Gaz. vol. 172; p. 366.
Twitchell, Donn I., assignor to G. H. Benjamin, New York, N. Y. Two-cycle internal-combustion engine. No. 981,331; Jan. 10; Sp. p. 2642; Gaz. vol. 162; p. 430.
Twohig, John C., *et al.* (See Maurer, George, assignor.)
Twombly, Alexander H., Summit, N. J., assignor to Gerard Ozone Process Company, New York, N. Y. Composition yielding ozone. No. 984,722; Feb. 21; Sp. p. 3206; Gaz. vol. 163; p. 567.
Twombly Motors Company. (See Twombly, Willard I., assignor.)
Twombly, Willard I., assignor, by mesne assignments, to Twombly Motors Company, New York, N. Y. Combination convertible vehicle-body. No. 992,298; May 16; Sp. p. 3150; Gaz. vol. 166; p. 574.
Twombly, Willard I., assignor, by mesne assignments, to Twombly Motors Company, New York, N. Y. Internal-combustion engine. No. 997,480; July 11; Sp. p. 1821; Gaz. vol. 168; p. 330.
Ty-Sa-Man Machine Company. (See Savage, Arthur, assignor.)
Tyden, Emil. (See Burton, Charles S., assignor.)
Tyden, Emil, Hastings, Mich. Extension-table. No. 981,143; Jan. 10; Sp. p. 2209; Gaz. vol. 162; p. 364.
Tyden, Emil, Hastings, Mich. Pedestal-extension-table lock. No. 981,144; Jan. 10; Sp. p. 2213; Gaz. vol. 162; p. 364.
Tyden, Emil, Hastings, Mich. Extension-table. No. 981,145; Jan. 10; Sp. p. 2216; Gaz. vol. 162; p. 365.
Tyden, Emil, Hastings, Mich. Extension-table. No. 1,004,220; Sept. 26; Sp. p. 4510; Gaz. vol. 170; p. 798.
Tyden, Emil, Hastings, Mich. Extension-table. No. 1,004,221; Sept. 26; Sp. p. 4512; Gaz. vol. 170; p. 798.
Tyler, Edgar M., Detroit, assignor of one-half to R. J. Welsh, Kalamazoo, Mich. Portable electric lamp. No. 1,007,404; Oct. 31; Sp. p. 6267; Gaz. vol. 171; p. 1141.
Tyler, Edward B. (See Knox and Tyler.)
Tyler, Edward B., Wilkinsburg, Pa. Pipe connection. No. 1,006,317; Oct. 17; Sp. p. 3863; Gaz. vol. 171; p. 675.
Tyler, John H., Winchester, Ky. Window-sash. No. 992,393; May 16; Sp. p. 3377; Gaz. vol. 166; p. 608.
Tyler, Melvin H., Muncie, Ind. Compound tool. No. 988,605; Apr. 4; Sp. p. 682; Gaz. vol. 165; p. 109.
Tymstra, Sybren R., *et al.* (See Ter Weer, Garhardus L., assignor.)
Tynes, Lucius M., Gloster, Miss. Attachment for sewing-machines. No. 991,911; May 9; Sp. p. 2309; Gaz. vol. 166; p. 411.
Typograph G. m. b. H. (See Dorneth, Julius, assignor.)
Tyreman, Lee, Stroudsburg, assignor of one-half to G. E. Wagner, Tobyhanna, Pa. Milk-stool. No. 1,006,513; Oct. 24; Sp. p. 4314; Gaz. vol. 171; p. 773.
Tyrone Finance Company. (See Miller, Charles M., assignor.)
Tyson Company, The. (See Tyson, Frank, assignor.)
Tyson, Frank, assignor to The Tyson Company, Canton, Ohio. Dasher for ice-cream freezers. No. 999,473; Aug. 1; Sp. p. 545; Gaz. vol. 169; p. 96.
Tyson, Frank, assignor to The Tyson Company, Canton, Ohio. Ice-cream-freezer head. No. 1,001,906; Aug. 29; Sp. p. 5800; Gaz. vol. 169; p. 1056.
Tyson, James R., Reading, Pa. Auxiliary pedal. No. 984,723; Feb. 21; Sp. p. 3207; Gaz. vol. 163; p. 567.
Tyson, James R., Reading, Pa. Auxiliary piano-pedal. No. 992,522; May 16; Sp. p. 3638; Gaz. vol. 166; p. 653.
Tyson, James R., assignor of three-fifths to F. S. Yoder, Reading, Pa. Vehicle-jack. No. 1,003,164; Sept. 12; Sp. p. 2153; Gaz. vol. 170; p. 370.
Tyson, Thomas O. (See Tyson, William D. and T. O.)
Tyson, William D. and T. O., Rosebud, Tex. Evaporative cooler. No. 1,000,132; Aug. 8; Sp. p. 1945; Gaz. vol. 169; p. 350.

Alphabetical list of patentees—Continued.

U. C. Coupling Company, The. (See Robinson, Forster, assignor.)
U. S. Metal & Manufacturing Co. *et al.* (See Wolfe, John, assignor.)
U. S. Slicing Machine Co. (See Hand, Enos A., assignor.)
Ubbink, Joseph, Port Washington, Wis. Sidewalk-form. No. 1,008,395; Nov. 14; Sp. p. 1717; Gaz. vol. 172; p. 302.
Udstad, George S., assignor of one-half to C. Lietz, Aurora, Ill. Flying-machine. No. 991,115; May 2; Sp. p. 611; Gaz. vol. 166; p. 104.
Uebelmesser, Charles R., assignor to American Moving Picture Machine Company, New York, N. Y. Reeling apparatus. No. 989,736; Apr. 18; Sp. p. 3095; Gaz. vol. 165; p. 544.
Uebelmesser, Charles R., assignor to American Moving Picture Machine Company, New York, N. Y. Film-actuating mechanism. No. 994,042; May 30; Sp. p. 6867; Gaz. vol. 166; p. 1233.
Uebelmesser, Charles R., assignor to American Moving Picture Machine Company, New York, N. Y. Moving-picture machine. No. 994,043; May 30; Sp. p. 6871; Gaz. vol. 166; p. 1234.
Uebelmesser, Charles R., assignor to American Moving Picture Machine Company, New York, N. Y. Film-holding device for moving-picture machines. No. 994,044; May 30; Sp. p. 6873; Gaz. vol. 166; p. 1234.
Uebelmesser, Charles R., assignor to American Moving Picture Machine Company, New York, N. Y. Film-actuating mechanism for moving-picture machines. No. 996,952; July 4; Sp. p. 737; Gaz. vol. 168; p. 120.
Uebelmesser, Charles R., assignor to American Moving Picture Machine Company, New York, N. Y. Winding mechanism for moving-picture machines. No. 1,001,098; Aug. 22; Sp. p. 4115; Gaz. vol. 169; p. 754.
Uehlin, John. (See Mettler, William J., assignor.)
Ufford, Morrell J. (See Fowler and Ufford.)
Ufford, Morrell J., Amenia, N. D. Bathing-boat. No. 982,025; Jan. 17; Sp. p. 4144; Gaz. vol. 162; p. 692.
Uhde, Adolph, New York, N. Y. Filter. No. 989,086; Apr. 11; Sp. p. 1677; Gaz. vol. 165; p. 291.
Uhl, Edgar G., San Antonio, Tex. Automatic vehicle-brake. No. 988,676; Apr. 4; Sp. p. 826; Gaz. vol. 165; p. 133.
Uhl, Henry, and U. S. G. Barnhart, Longmont, Colo. Electric-drop-light hanger. No. 982,222; Jan. 17; Sp. p. 4519; Gaz. vol. 162; p. 758.
Uhl, Henry W., Portsmouth, Ohio. Flexible stay-bolt. No. 996,167; June 27; Sp. p. 4496; Gaz. vol. 167; p. 813.
Uhlenhuth, Egide L. V., Paris, France. Belt-fastener. No. 991,395; May 2; Sp. p. 1215; Gaz. vol. 166; p. 202.
Uhler Motor Co. (See Anderson, Charles C., assignor.)
Uhlik, John L. (See Brown and Uhlik.)
Uhlmann, Bernhard, Garfield, N. J. Self-switching alarm. No. 1,008,756; Nov. 14; Sp. p. 2545; Gaz. vol. 172; p. 429.
Uhlmann, Ernst, Albany, N. Y. Beer-making apparatus. No. 998,815; July 25; Sp. p. 4839; Gaz. vol. 168; p. 874.
Uhrin, John. (See Stawartz, John J., assignor.)
Uhrnell, Carl A., Stamford, Tex. Pliers. No. 993,128; May 23; Sp. p. 4938; Gaz. vol. 166; p. 894.
Uhtbrock, Frederick, New York, N Y. Rotary explosive-engine. No. 1,012,115; Dec. 19; Sp. p. 3878; Gaz. vol. 173; p. 670.
Ulfers, Jacob S., Beach, N. D. Traction-wheel. No. 991,396; May 2; Sp. p. 1217; Gaz. vol. 166; p. 203.
Ullman, James A., New York, N. Y. Storage-tank. No. 1,012,300; Dec. 19; Sp. p. 4278; Gaz. vol. 173; p. 734.
Ullman, James A., New York, N. Y. Storage-tank. No. 1,012,937; Dec. 26; Sp. p. 5670; Gaz. vol. 173; p. 996.
Ullmann, Fritz, Charlottenburg, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Halogenized carboxylic acid of the phenylaminoanthraquinone series. No. 993,915; May 30; Sp. p. 6602; Gaz. vol. 166; p. 1190.
Ullmann, Fritz, Charlottenburg, assignor to Actien Gesellschaft für Anilin Fabrikation, Berlin, Germany. Product of the anthraquinone series and making same. No. 1,001,325; Aug. 22; Sp. p. 4582; Gaz. vol. 169; p. 829.
Ullmen, Phillip C. (See Shafer, John P., assignor.)
Ullom, Andrew W., Athens, Ohio. Bill file and binder. No. 989,210; Apr. 11; Sp. p. 1924; Gaz. vol. 165; p. 333.
Ullrich, Emil H. W., Chicago, Ill. Receptacle. No. 1,010,538; Dec. 5; Sp. p. 304; Gaz. vol. 173; p. 48.
Ullrich, George F. (See Weigert, Graham, and Ullrich.)
Ullrich, Howard A., Chicago, Ill. Building-block. No. 1,011,283; Dec. 12; Sp. p. 2002; Gaz. vol. 173; p. 344.
Ullrich, Jacob, Hoboken, N. J. Self-filling fountain-pen. No. 991,764; May 9; Sp. p. 2002; Gaz. vol. 166; p. 360.
Ulmer, Absalom C., Pascagoula, Miss. Life-preserver for aviators. No. 982,907; Jan. 31; Sp. p. 6000; Gaz. vol. 162; p. 1051.
Ulmer, Charles, Lisbon, N. D. Vehicle-wheel. No. 1,001,907; Aug. 29; Sp. p. 5801; Gaz. vol. 169; p. 1056.
Ulmer, Leslie J., Terre Haute, Ind. Heat-insulated receptacle. No. 1,004,604; Oct. 3; Sp. p. 121; Gaz. vol. 171; p. 21.
Ulrich, Charles B., Hancock, Mich. Vacuum-clip. No. 1,000,858; Aug. 15; Sp. p. 3536; Gaz. vol. 169; p. 636.
Ulrich, Julius M., Greenwich, Conn., assignor of one-half to W. Rahr, Jr., Manitowoc, Wis. Carbureter. No. 1,000,054; Aug. 8; Sp. p. 1725; Gaz. vol. 169; p. 322.
Ulrich, Julius M., and W. Rahr, Jr., Manitowoc, Wis. Carbureter for internal-combustion engines. No. 1,006,809; Oct. 24; Sp. p. 4959; Gaz. vol. 171; p. 878.
Ulrich, Milton H. (See Amanson and Ulrich.)
Ulrich, Roy, Overton, Nebr. Cushion attachment for wheels. No. 999,609; Aug. 1; Sp. p. 813; Gaz. vol. 169; p. 142.
Ulrich, William E., Detroit, Mich. Metallic window-sash. No. 991,042; May 2; Sp. p. 447; Gaz. vol. 166; p. 77.
Ulrich, William E., Detroit, Mich. Joint for intersecting metallic members. No. 1,012,761; Dec. 26; Sp. p. 5222; Gaz. vol. 173; p. 936.
Ulzer, Ferdinand, and R. Sommer, Vienna, Austria-Hungary. Extracting radium compounds. No. 1,001,480; Aug. 22; Sp. p. 4871; Gaz. vol. 169; p. 879.
Umbanhowar, James H., Homer, Ill. Corn-harvester reel. No. 1,012,938; Dec. 26; Sp. p. 5673; Gaz. vol. 173; p. 996.
Umbenhaur, Richard H., Detroit, Mich. Fire-kindler. No. 1,003,550; Sept. 19; Sp. p. 2959; Gaz. vol. 170; p. 539.
Umbreit, Frederick W., Clarion, assignor of one-half to L. P. Stillman, Dolliver, Iowa, and one-half to J. E. Williams, Denver, Colo. Ditching-machine. No. 1,000,309; Aug. 8; Sp. p. 2308; Gaz. vol. 169; p. 410.
Umhau, Bernard O., Washington, D. C. Lubricator for elevator-guides. No. 996,168; June 27; Sp. p. 4498; Gaz. vol. 167; p. 813.
Umlandt, Henry, *et al.* (See Hopkins, Fred M., assignor.)
Umrath, Theodore, Chicago, Ill., assignor to Liberty Cow Milker Company, Hammond, Ind. Milking-machine. No. 1,010,203; Nov. 28; Sp. p. 5608; Gaz. vol. 172; p. 1004.
Umrath, Theodore, Chicago, Ill., assignor to Liberty Cow Milker Company, Hammond, Ind. Milking-machine. No. 1,010,204; Nov. 28; Sp. p. 5613; Gaz. vol. 172; p. 1005.
Umrath, Theodore, Chicago, Ill., assignor to Liberty Cow Milker Company, Hammond, Ind. Dairy machinery. No. 1,010,328; Nov. 28; Sp. p. 5868; Gaz. vol. 172; p. 1045.
Undeland, Andrew L., Omaha, Nebr. Barber-chair. No. 997,937; July 11; Sp. p. 2868; Gaz. vol. 168; p. 490
Under-Feed Stoker Company of America. (See Kenney, William J., assignor.)
Underfeed Stoker Company of America. (See Daley, Fred A., assignor.)
Underhill, George H., Boston, Mass. Phonograph. No. 980,459; Jan. 3; Sp. p. 604; Gaz. vol. 162; p. 100.
Underhill, George H., Boston, Mass. Sound-reproducing or sound-recording machine. No. 989,737; Apr. 18; Sp. p. 3098; Gaz. vol. 165; p. 545.
Underhill, George H., Boston, Mass. Sound-reproducing or sound-recording machine. No. 995,390; June 13; Sp. p. 2804; Gaz. vol. 167; p. 478.
Underhill, Walter A., Auburn, N. Y. Dump-wagon. No. 1,006,151; Oct. 17; Sp. p. 3478; Gaz. vol. 171; p. 617.
Underpinning Company, The. (See Breuchaud, Jules, assignor.)
Underpinning Company, The. (See Pruyn, Francis L., assignor.)
Underwood Automatic Typewriter Pay Station Company. (See Corcoran, Cornelius B., assignor.)
Underwood Computing Machine Company. (See Degener, Gustave O., assignor.)
Underwood, Elvy T., Llano, Tex. Cultivator attachment. No. 1,009,356; Nov. 21; Sp. p. 3865; Gaz. vol. 172; p. 672.
Underwood, John T., Kachelmacher, Ohio. Kiln. No. 988,411; Apr. 4; Sp. p. 264; Gaz. vol. 165; p. 42.
Underwood, Louis E., Lynn, Mass., assignor to General Electric Company. Dynamo. No. 1,003,955; Sept. 19; Sp. p. 3873; Gaz. vol. 170; p. 679.
Underwood, Sidney S., Montreal, Quebec, Canada. Track-sander. No. 1,000,055; Aug. 8; Sp. p. 1729; Gaz. vol. 169; p. 322.
Underwood Typewriter Co. (See Ashe and Fricks assignors.)
Underwood Typewriter Company. (See Barnard, Walter E., assignor.)
Underwood Typewriter Company. (See Broughton, Lyman D., assignor.)
Underwood Typewriter Company. (See Cooper, John J., assignor.)
Underwood Typewriter Company. (See Corcoran, Cornelius B., assignor.)
Underwood Typewriter Company. (See Dennis, Adolphus S., assignor.)
Underwood Typewriter Company. (See Doane and Self, assignors.)
Underwood Typewriter Company. (See Foddrill, Henry T., assignor.)
Underwood Typewriter Company. (See Fortin and Horton, assignors.)
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Lockwood, Marquis H., assignor.)
Underwood Typewriter Company. (See Lux, Julius K., assignor.)
Underwood Typewriter Company. (See McLaughlin, John C., assignor.)

Alphabetical list of patentees—Continued.

Underwood Typewriter Company. (See McLaughlin, William P., assignor.)
Underwood Typewriter Company. (See Ney, Louis, assignor.)
Underwood Typewriter Company. (See Shaver, James E., Jr., assignor.)
Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)
Underwood Typewriter Company. (See Strong and Baer, assignors.)
Underwood Typewriter Company. (See Wagner, Franz X., assignor.)
Underwood Typewriter Company. (See Young, Frank A., assignor.)
Underwood, Walter H., Hutchinson, Kans. Orchard-heating apparatus. No. 994,223; June 6; Sp. p. 254; Gaz. vol. 167; p. 43.
Underwood, Walter H., New York, N. Y. Compound plastic material. No. 1,012,030; Dec. 19; Sp. p. 3683; Gaz. vol. 173; p. 641.
Underwood, Walter H., New York, N. Y. Metallic yarn and fabric. No. 1,012,031; Dec. 19; Sp. p. 3685; Gaz. vol. 173; p. 641.
Underwood, William. (See Bryant and Underwood.)
Underwood, William N. (See Warden and Underwood.)
Underwriters Company, The. (See Jaeger, Otto, assassignor.)
Ungar, Carl L. (See Doll, William, assignor.)
Unger, Charles W., Jr., assignor of one-half to F. W. Unger, Los Angeles, Cal. Supporting-stand and playing mechanism for musical instruments. No. 994,289; June 6; Sp. p. 385; Gaz. vol. 167; p. 66.
Unger, Frances W. (See Unger, Charles W., Jr., assignor.)
Unger, Frank, and W. Corrigan, Cleveland, Ohio. Firearm. No. 993,129; May 23; Sp. p. 4939; Gaz. vol. 166; p. 894.
Unger, Frank C., St. Louis, Mo. Telephone system. No. 983,098; Jan. 31; Sp. p. 6416; Gaz. vol. 162; p. 1115.
Unger, Hugo, assignor to Lintz & Eckhardt, Berlin, Germany. Hemstitching-machine. No. 988,050; Mar. 28; Sp. p. 4912; Gaz. vol. 164; p. 871.
Unger, John S., Chicago, Ill. Apparatus for supplying lime to ammonia-stills. No. 994,431; June 6; Sp. p. 684; Gaz. vol. 167; p. 117.
Unger, Oskar, Leverkusen, near Cologne, and P. Thomaschewski, Vohwinkel, near Elberfeld, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dye. No. 994,803; June 13; Sp. p. 1542; Gaz. vol. 167; p. 282.
Unger, Oskar, Leverkusen, and P. Thomaschewski, Vohwinkel, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. 4-metachlorophenylamino 1-anthra-n-methylpyridon. No. 995,306; June 13; Sp. p 2597; Gaz. vol. 167; p. 450.
Ungerer, Herman F., and J. R. Van Tassel, Geneva, N. Y. Coat-hanger. No. 983,464; Feb. 7; Sp. p. 444; Gaz. vol. 163; p. 71.
Ungren, Einar A., and A. R. Forster, Pine Bluff, Ark. Stereopticon. No. 1,006,318; Oct. 17; Sp. p. 3864; Gaz. vol. 171; p. 675.
Uni-Typebar. (See Link and Hyde, assignors.)
Uni-Typebar. (See Link and Morgan, assignors.)
Union Carbide Company. (See Morehead, John M., assignor.)
Union Clay Products Company. (See Taylor, Edwin, assignor.)
Union Fibre Company. (See Brown, Alfred G., assignor.)
Union, Frank L., New York, N. Y. Catch-basin. No. 1,005,371; Oct. 10; Sp. p. 1751; Gaz. vol. 171; p. 312.
Union Iron Works Co. (See Dahl, Knut M., assignor.)
Union Lock Stitch Company. (See Merrick, Frank W., assignor.)
Union Mattress Company, The. (See Klipfel, Thomas, assignor.)
Union Paper Bag Machine Company. (See Lorenz, William A., assignor.)
Union Paper Bag Machine Company. (See Merritt, Joseph, assignor.)
Union Special Machine Company. (See Hunter, Warren N., assignor.)
Union Special Machine Company. (See Onderdonk, Lansing, assignor.)
Union Special Sewing Machine Company. (See McNeil, Chester, assignor.)
Union Special Sewing Machine Company. (See Onderdonk, Lansing, assignor.)
Union Steel Screen Company. (See Dean, George E., assignor.)
Union Steel Screen Company. (See Wiselogel, Christian D., assignor.)
Union Switch & Signal Company, The. (See Coleman, John P., assignor.)
Union Switch & Signal Company, The. (See Coleman and Utne, assignors.)
Union Switch & Signal Company, The. (See Griffin, Henry W., assignor.)
Union Switch & Signal Company, The. (See Hanlon, Marquis D., assignor.)
Union Switch and Signal Company, The. (See Howard, Lemuel F., assignor.)
Union Switch and Signal Company, The. (See Lewis, Harry W., assignor.)
Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
Union Switch & Signal Company, The. (See Livermore, Arthur C., assignor.)
Union Switch & Signal Company, The. (See McCarthy, Daniel J., assignor.)
Union Switch & Signal Company, The. (See Neubert, Walter P., assignor.)
Union Switch and Signal Company, The. (See Neubert and McClelland, assignors.)
Union Switch & Signal Company, The. (See Patenall and Talbert, assignors.)
Union Switch & Signal Company, The. (See Pfeil, George H., assignor.)
Union Switch & Signal Company, The. (See Reid, Edward, assignor.)
Union Switch & Signal Company, The. (See Struble, Jacob B., assignor.)
Union Switch & Signal Company, The. (See Tuttle, Ralph P., assignor.)
Union Switch & Signal Company, The. (See Utne, Per, assignor.)
Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)
Union Twist Drill Co. (See MacKay, Simon, assignor.)
Union Typewriter Company. (See Babcock, William G., assignor.)
Union Typewriter Company. (See Barrett, Glenn J., assignor.)
Union Typewriter Company. (See Barron, Walter J., assignor.)
Union Typewriter Company. (See Burnett, William E., assignor.)
Union Typewriter Company. (See Clauder, Arthur W., assignor.)
Union Typewriter Company. (See Daugherty, James D., assignor.)
Union Typewriter Company. (See Feibel, Jacob, assignor.)
Union Typewriter Company. (See Finigan, Benjamin P., assignor.)
Union Typewriter Company. (See Ingram, Oscar L., assignor.)
Union Typewriter Company. (See Labofish, Louis W., assignor.)
Union Typewriter Company. (See Moore, David P., assignor.)
Union Typewriter Company. (See Mosher, Charles P., assignor.)
Union Typewriter Company. (See Roche, William J., assignor.)
Union Typewriter Company. (See Schaaff, John T., assignor.)
Union Typewriter Company. (See Seib, George A., assignor.)
Union Typewriter Company. (See Shepard, Charles H., assignor.)
Union Typewriter Company. (See Sholes, Zalmon G., assignor.)
Union Typewriter Company. (See Smith, Charles E., assignor.)
Union Typewriter Company. (See Smith, George H., assignor.)
Union Typewriter Company. (See Snyder, Augustus G., assignor.)
Union Typewriter Company. (See Steele, Herbert H., assignor.)
Union Typewriter Company. (See Steiger, Andrew W., assignor.)
Union Typewriter Company. (See Strother, Robert H., assignor.)
Union Typewriter Company. (See Waldheim, John, assignor.)
Union Typewriter Company. (See Woodward, Oscar, assignor.)
Union Water Meter Company. (See Larrabee, William H., assignor.)
Unit Construction Company. (See Conzelman, John E., assignor.)
Unit Construction Company. (See Meier, Albert J., assignor.)
Unit Steel Cabinet Company, The. (See Mott, Garret, assignor.)
Unit Steel Cabinet Company, The. (See Walton, Samuel T., assignor.)
United Bottle Machinery Co. (See Pawling, Francis W., assignor.)
United Cotton Gin Company. (See Prior, Matthew, assignor.)
United Electric Company. (See Dillon, Charles A., assignor.)
United Electric Company, The. (See Goughnour, Charles L., assignor.)
United Engineering & Foundry Company. (See Biggert, Florence C., Jr., assignor.)
United Engineering and Foundry Company. (See Cordes, Frank, assignor.)
United Engineering & Foundry Company. (See Ellis, Frank I., assignor.)

Alphabetical list of patentees—Continued.

United Engineering & Foundry Company. (See Ellis and McIlvried, assignors.)
United Engineering & Foundry Company. (See Gardner and Biggert, assignors.)
United Engineering & Foundry Company. (See Hoofring, Eric L., assignor.)
United Engineering & Foundry Company. (See McIlvried, Edwin J., assignor.)
United Gas Improvement Company, The. (See Crisfield, James A. P., assignor.)
United Gas Improvement Company, The. (See Knapp, Isaac N., assignor.)
United Gas Improvement Company, The. (See Waring, George H., assignor.)
United Injector Company, The. (See Williston, Belvin T., assignor.)
United Iron Works Company. (See Freeman, John W., assignor.)
United Ladder-Scaffold Company, The. (See Valentine, Fred C., assignor.)
United Lamp and Burner Company. (See Blount, Nelson, assignor.)
United Paper Company. (See Bolt, Joseph, assignor.)
United Printing Machinery Company. (See Piper, Myron H., assignor.)
United Revolving Door Company. (See Clymer, Frederick, assignor.)
United Ribbon Company. (See Lewin, Irving, assignor.)
United Rim Company, The. (See Shaw, Edwin C., assignor.)
United Roofing and Manufacturing Company. (See Smith, Judd, assignor.)
United Salt Company, The. (See Frasch, Herman, assignor.)
United Shirt and Collar Company. (See Cooper, Ella H., assignor.)
United Shoe Machinery Co. (See Russell, Arthur L., assignor.)
United Shoe Machinery Company. (See Alexander, Alexander M., assignor.)
United Shoe Machinery Company. (See Alley and Pack, assignors.)
United Shoe Machinery Company. (See Ambler, George A., assignor.)
United Shoe Machinery Company. (See Ashton, Orrell, assignor.)
United Shoe Machinery Company. (See Ashworth, Fred, assignor.)
United Shoe Machinery Company. (See Ball, Augustus A., Jr., assignor.)
United Shoe Machinery Company. (See Barclay and Gouldbourn, assignors.)
United Shoe Machinery Company. (See Bates, Arthur, assignor.)
United Shoe Machinery Company. (See Bates, Jerram, and Gouldbourn, assignors.)
United Shoe Machinery Company. (See Bayard, Emery, assignor.)
United Shoe Machinery Company. (See Bond, William A., assignor.)
United Shoe Machinery Company. (See Brock, Matthias, assignor.)
United Shoe Machinery Company. (See Brogan, James A., assignor.)
United Shoe Machinery Company. (See Brothers, Eli, assignor.)
United Shoe Machinery Company. (See Bryant and Underwood, assignors.)
United Shoe Machinery Company. (See Buckminster, Ira C., assignor.)
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United Shoe Machinery Company. (See Cady, Carson J., assignor.)
United Shoe Machinery Company. (See Casgrain, Louis A., assignor.)
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United Shoe Machinery Company. (See Clary, Burton N., assignor.)
United Shoe Machinery Company. (See Courser, Fred M., assignor.)
United Shoe Machinery Company. (See Covell, George S., assignor.)
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United Shoe Machinery Company. (See Drey, Wilfred J., assignor.)
United Shoe Machinery Company. (See Drown, Frank E., assignor.)
United Shoe Machinery Company. (See Eaton, Harrison H., assignor.)
United Shoe Machinery Company. (See Engberg, Arvid L., assignor.)
United Shoe Machinery Company. (See Engel, Karl, assignor.)
United Shoe Machinery Company. (See Eppler, Andrew, assignor.)
United Shoe Machinery Company. (See Files, True H., assignor.)
United Shoe Machinery Company. (See Flynt, Louis W. G., assignor.)
United Shoe Machinery Company. (See Frasier, Warren, assignor.)
United Shoe Machinery Company. (See Furber, Frederick M., assignor.)
United Shoe Machinery Company. (See Gibson and Pegg, assignors.)
United Shoe Machinery Company. (See Glidden, John E., assignor.)
United Shoe Machinery Company. (See Goddu, George, assignor.)
United Shoe Machinery Company. (See Gordon, William, assignor.)
United Shoe Machinery Company. (See Gouldbourn, Joseph, assignor.)
United Shoe Machinery Company. (See Graham, Charles E., assignor.)
United Shoe Machinery Company. (See Hadaway, John B., assignor.)
United Shoe Machinery Company. (See Hawkins, Frank H., assignor.)
United Shoe Machinery Company. (See Heys, John J., assignor.)
United Shoe Machinery Company. (See Hodskinson, Jabez H., assignor.)
United Shoe Machinery Company. (See Hooper, Frederick E., assignor.)
United Shoe Machinery Company. (See Jackson, James E., assignor.)
United Shoe Machinery Company. (See Jerram, Arthur E., assignor.)
United Shoe Machinery Company. (See Jorgensen, Christian, assignor.)
United Shoe Machinery Company. (See Jörgensen and Haahr, assignors.) (Reissue.)
United Shoe Machinery Company. (See Keall and Gouldbourn, assignors.)
United Shoe Machinery Company. (See Keyes, Eugene L., assignor.)
United Shoe Machinery Company. (See Ladd, Sherman W., assignor.)
United Shoe Machinery Company. (See Ladd and Stiggins, assignors.)
United Shoe Machinery Company. (See Latham, Albert, assignor.)
United Shoe Machinery Company. (See Lund, Thomas, assignor.)
United Shoe Machinery Company. (See MacLeod, Albert A., assignor.)
United Shoe Machinery Company. (See Marcy, Grosvenor D., assignor.)
United Shoe Machinery Company. (See Marsh and Bates, assignors.)
United Shoe Machinery Company. (See Matthews, Algernon W., assignor.)
United Shoe Machinery Company. (See Mayo, Benjamin F., assignor.)
United Shoe Machinery Company. (See McFeely, Ronald F., assignor.)
United Shoe Machinery Company. (See Meyer, William C., assignor.)
United Shoe Machinery Company. (See Olson, August, assignor.)
United Shoe Machinery Company. (See Pearson, Marshall H., assignor.)
United Shoe Machinery Company. (See Pearson and Jerram, assignors.)
United Shoe Machinery Company. (See Peck, Stephen F., assignor.)
United Shoe Machinery Company. (See Perri, Angelo, assignor.)
United Shoe Machinery Company. (See Perry, Frederick H., assignor.)
United Shoe Machinery Company. (See Phelan, Merton D., assignor.)
United Shoe Machinery Company. (See Plant, Thomas G., assignor.)
United Shoe Machinery Company. (See Pope, Joseph H., assignor.)
United Shoe Machinery Company. (See Pope and Elliott, assignors.)
United Shoe Machinery Company. (See Preble, Edwin N., assignor.)
United Shoe Machinery Company. (See Prindle, Edwin J., assignor.)
United Shoe Machinery Company. (See Raymond, Freeborn F., 2d, assignor.)
United Shoe Machinery Company. (See Reid, John F., assignor.)
United Shoe Machinery Company. (See Richardson, John H., assignor.)
United Shoe Machinery Company. (See Rumney, Fred A., assignor.)

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United Shoe Machinery Company. (See Shaw, Walter, assignor.)
United Shoe Machinery Company. (See Snow, Stephen, assignor.) (Reissue.)
United Shoe Machinery Company. (See Spencer, Alvah C., assignor.)
United Shoe Machinery Company. (See Stanbon, Charles P., assignor.) (Reissue.)
United Shoe Machinery Company. (See Stewart, William C., assignor.)
United Shoe Machinery Company. (See Stiggins, Edward A., assignor.)
United Shoe Machinery Company. (See Towle, Charles R., assignor.)
United Shoe Machinery Company. (See Warren, George E., assignor.)
United Shoe Machinery Company. (See Wentworth, Samuel J., assignor.)
United Shoe Machinery Company. (See Wheeler, Walter O., assignor.)
United Shoe Machinery Company. (See Winkley, Erastus E., assignor.)
United Shoe Machinery Company. (See Winter, Henry W., assignor.)
United States Automatic Loom Attachment Company. (See Harrington, Leslie, assignor.)
United States Ball Bearing Manufacturing Company, The. (See Schneider, Stefan, assignor.)
United States Coal & Coke Company. (See Eavenson, Buffum, and Flexner, assignors.)
United States Concentrating Company. (See King, Orrin H., assignor.)
United States Consolidated Seeded Raisin Company. (See Langer, Gotthold L., assignor.)
United States Construction and Utilization Company. (See Wiselogel, Frederick G., assignor.)
United States Cotton Seed Oil Company. (See Worth, William E., assignor.)
United States Electrographic Company. (See Dexter and Mather, assignors.)
United States Envelope Co. (See Heywood and Travis, assignors.)
United States Envelope Company. (See Schmidt, Ferdinand, assignor.)
United States Fibre Stopper Company. (See Ketcheson, John H., assignor.)
United States Folding Box and Crate Company. (See Stall, Charles H., assignor.)
United States Headlight Company. (See Kirby, John, Jr., assignor.)
United States Life Saving Equipment Company. (See Miller, Edward F., assignor.)
United States Light and Heating Company, The. (See Bliss, William L., assignor.)
United States Light & Heating Company, The. (See McElroy, James F., assignor.)
United States Metals Refining Company. (See Addicks and Marks, assignors.)
United States Ordnance & Projectile Company. (See Brown, John H., assignor.)
United States Patented Inventions Co., The. (See Jaques, Fernando O., Jr., assignor.)
United States Police and Fire Signal Company. (See Dement, Alfred K., assignor.)
United States Pump and Tank Company. (See Davis and Holt, assignors.)
United States Safety Gas Machine Company. (See Andres, J. Frank, assignor.)
United States Sanitary Manufacturing Company. (See Danver, James H., assignor.)
United States Smelting, Refining & Mining Company. (See Sprague, Clarence B., assignor.)
United States Telephone Herald Company. (See Németh, Árpád, assignor.)
United States Whip Company. (See Hull, David C., assignor.)
United States Whip Company. (See Whipple, George E., assignor.)
United-Xpedite Finishing Company. (See Tuttle, Calvin B., assignor.)
Unity Mfg. Co., The. (See Reed, Franklin M., assignor.)
Universal Adding Machine Company. (See Rinsche, Frank C., assignor.)
Universal Bed and Hospital Supply Company. (See Barnett, Arthur R., assignor.)
Universal Brush Company. (See Bradshaw, James W., assignor.)
Universal Car Seal & Appliance Co. (See Martineau, William C., assignor.)
Universal Coin-Wrapping Machine Company. (See Batdorf, Charles S., assignor.)
Universal Electric Welding Company. (See Lachman, Laurence S., assignor.)
Universal Electric Welding Company. (See Lachman, Maurice, assignor.)
Universal Electric Welding Company. (See Rietzel, Adolph F., assignor.)
Universal Hartel Light Company. (See Hartel, Albert E., assignor.)
Universal Implement Company. (See Pribil, Alexis R., assignor.)
Universal Lock-Nut & Bolt Company. (See Miller, Isaac L., assignor.)
Universal Machine Company. (See Silbert and Wachtel, assignors.)
Universal Machine Screw Company, The. (See Spencer, Christopher M., assignor.)
Universal Mail Despatcher Company. (See Jones, William H., assignor.)
Universal Mail Equipment Company. (See Isenberger, Jacob N., assignor.)
Universal Manufacturing Company. (See Ayer, Albert E., assignor.)
Universal Motor Company, The. (See Rhodes, Harry A., assignor.)
Universal Motor Company, The. (See Summeril, Frank H., assignor.)
Universal Ore Reducing Company. (See Rennie, William D., assignor.)
Universal Ore Reduction Company. (See Robertson, James H., assignor.)
Universal Paper Bottle Company. (See Stellard, Walter, assignor.)
Universal Sanitary Reduction and Power Company. (See Carson, George C., assignor.)
Universal Speed Control Company, The. (See Porter, Holbrook F. J., assignor.)
Universal Tool Company, The. (See Millea, Thomas D., assignor.)
Universal Winding Company. (See Ryden, Claes, assignor.)
Universal Winding Company. (See Wardwell, Simon W., assignor.)
Universal Wrench Company, The. (See Bovee, Ransom Y., assignor.)
Universelle Cigaretten-Maschinen-Industrie System Otto Bergstrasser, Alfred Klinge. (See Grahl, Max C., assignor.)
Unsinger, Phillip H., Fremont, Ohio. Safety-razor. No. 1,006,607; Oct. 24; Sp. p. 4538; Gaz. vol. 171; p. 809.
Unsinger, Phillip H., Fremont, Ohio. Safety-razor. No. 1,009,114; Nov. 21; Sp. p. 3309; Gaz. vol. 172; p. 585.
Unterberg, Gustav A., Durlach, Germany. Contact-breaker for magneto-electric igniting apparatus. No. 981,599; Jan. 10; Sp. p. 3196; Gaz. vol. 162; p. 522.
Unverzagt, Charles H. (See Hamlin, Pulaski M., assignor.)
Upchurch, Fred, London, Ontario, Canada. Fence-post. No. 1,004,112; Sept. 26; Sp. p. 4272; Gaz. vol. 170; p. 761.
Updegraff, William B., New York, N. Y. Electric apparatus for measuring and indicating sizes of tiles, &c. No. 980,851; Jan. 3; Sp. p. 1433; Gaz. vol. 162; p. 230.
Updegraff, William B., New York, N. Y. Press for plastic material. No. 989,211; Apr. 11; Sp. p. 1928; Gaz. vol. 165; p. 334.
Updegraff, William B., New York, N. Y. Means for detecting and indicating tile-warpage. No. 992,460; May 16; Sp. p. 3498; Gaz. vol. 166; p. 630.
Updegraff, William B., New York, N. Y. Automatic apparatus for measuring and indicating sizes of tiles, &c. No. 992,926; May 23; Sp. p. 4495; Gaz. vol. 166; p. 824.
Updegraff, William B., New York, N. Y. Press for plastic materials. No. 994,349; June 6; Sp. p. 505; Gaz. vol. 167; p. 87.
Upham, Burt F., Evanston, Ill. Sheet-dividing apparatus. No. 995,582; June 20; Sp. p. 3249; Gaz. vol. 167; p. 574.
Upham, Burt F., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-delivery mechanism. No. 992,826; May 23; Sp. p. 4267; Gaz. vol. 166; p. 788.
Upham, Burt F., assignor to Southgate Machinery Co., Boston, Mass. Printing-press. No. 1,009,115; Nov. 21; Sp. p. 3310; Gaz. vol. 172; p. 586.
Upham, George B. (See Whitney, George E., assignor.)
Upham, George B. (See Wilkinson, Walter S., assignor.)
Upham, Samuel R. (See Kempster, Daniel E., assignor.)
Uphoff, William F., Chicago, Ill. Car-door lock. No. 991,116; May 2; Sp. p. 614; Gaz. vol. 166; p. 105.
Upp, John W., and W. O. Wakefield, Schenectady, N. Y., assignors to General Electric Company. Machine for washing blue-prints. No. 1,008,624; Nov. 14; Sp. p. 2254; Gaz. vol. 172; p. 384.
Uppercu, Inglis M., Newark N. J. Testing-stand for automobiles. No. 984,050; Feb. 14; Sp. p. 1740; Gaz. vol. 163; p. 299.
Upson, Delevan P., Jacksonville, Fla. Steam-engine. No. 992,927; May 23; Sp. p. 4498; Gaz. vol. 166; p. 825.
Upson, Maxwell M., Englewood, N. J. Concrete-piling retaining-wall structure. No. 981,822; Jan. 17; Sp. p. 3672; Gaz. vol. 162; p. 621.
Upson, Maxwell M., Englewood, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y. Bulkhead. No. 982,697; Jan. 24; Sp. p. 5522; Gaz. vol. 162; p. 951.
Upson, Maxwell M., assignor to Raymond Concrete Pile Company, New York, N. Y. Retaining-wall. No 982,698; Jan. 24; Sp. p. 5526; Gaz. vol. 162; p. 952.
Upson, Maxwell M., Englewood, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y. Pile-shell. No. 990,611; Apr. 25; Sp. p. 5039; Gaz. vol. 165; p. 878.

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Upton, Albert W., Los Angeles, Cal. Attachment for door-latches. No. 987,271; Mar. 21; Sp. p. 3202; Gaz. vol. 164; p. 578.
Upton, Colcord, Baltimore, Md., assignor to Simplex Roller Bearing Company, New York, N. Y. Antifriction-bearing. No. 1,003,551; Sept. 19; Sp. p. 2961; Gaz. vol. 170; p. 540.
Upton, George W., Warren, Ohio. Fishing-rod handle. No. 1,001,326; Aug. 22; Sp. p. 4584; Gaz. vol. 169; p. 829.
Upton, George W. D., *et al.* (See Millea, Francis J., assignor.)
Upton, George W. D., *et al.* (See Stannard, John E., assignor.)
Upton, Linford H., Chicago, Ill. Gas-producing apparatus. No. 1,011,530; Dec. 12; Sp. p. 2547; Gaz. vol. 173; p. 431.
Upton, Robert J., *et al.* (See Allatt, Thomas, assignor.)
Urbach, John T., Baltimore, Md., assignor of one-third to J. W. Varney, Alexandria, Va., and one-third to W. T. Ruckle, Baltimore, Md. Square and bevel. No. 1,000,133; Aug. 8; Sp. p. 1947; Gaz. vol. 169; p. 350.
Urban, Adolph O., San Francisco, Cal. Telegraphic translator. No. 1,003,074; Sept. 12; Sp. p. 1955; Gaz. vol. 170; p. 338.
Urban, Albert F., Highland, Ill. Fastener for display-box fronts. No. 1,002,013; Aug. 29; Sp. p. 6027; Gaz. vol. 169; p. 1091.
Urban, Anton, *et al.* (See Jergle, Machal, and Heller, assignors.)
Urbanski, Josef. (See Popiel and Urbanski.)
Uren, Nicholas A., Jr., Juneau, Alaska. Steam-boiler. No. 995,929; June 20; Sp. p. 4007; Gaz. vol. 167; p. 696.
Urie, William T., Kansas City, Mo. Spring-wheel. No. 998,937; July 25; Sp. p. 5141; Gaz. vol. 168; p. 918.
Urschel, Clyde V., *et al.* (See Truman, Charles, assignor.)
Urschel, Jacob W., *et al.* (See Truman, Charles, assignor.)
Utahna Development Company. (See Pfeiffer, Otto G., assignor.)
Utne, Per. (See Coleman and Utne.)
Utne, Per, Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Relay. No. 991,117; May 2; Sp. p. 615; Gaz. vol. 166; p. 105.
Uto, Ralph, Brockton, Mass. Leather-channeling tool. No. 1,011,678; Dec. 12; Sp. p. 2897; Gaz. vol. 173; p. 484.
Utsch, Herman, Little Falls, Minn. Copy-holder. No. 1,009,455; Nov. 21; Sp. p. 4106; Gaz. vol. 172; p. 708.
Utterback, Ival R., W. L. Galbraith, and H. G. Smith, Vancouver, Wash. Cattle-guard. No. 1,008,757; Nov. 14; Sp. p. 2546; Gaz. vol. 172; p. 429.
Utterberg, Hjalmar. (See Welin and Utterberg.)
Utz, John G., Detroit, Mich. Clutch. No. 1,009,702; Nov. 21; Sp. p. 4571; Gaz. vol. 172; p. 783.
Utz, Raymond H., and H. F. Grahl, U. S. Navy. Hose-coupling. No. 1,011,284; Dec. 12; Sp. p. 2003; Gaz. vol. 173; p. 344.
Utzler, Elmer W., Pittsburg, Pa. Reflector. No. 995,739; June 20; Sp. p. 3595; Gaz. vol. 167; p. 631.
V. Weber & Company. (See Freas, Thomas B., assignor.)
V. L. Ney Company, The. (See Ney, Valentine L., assignor.)
Vaco Manufacturing Company. (See Hazelrigg, Ross, assignor.)
Vacuum Cleaner Company, The. (See Hein, Adolf, assignor.)
Vacuum Engineering Company. (See Williams, David T., assignor.)
Vacuum Glass Company. (See Campbell, Charles E., assignor.)
Vagtborg, Christian, Chicago, Ill. Swimming-shoe. No. 982,316; Jan. 24; Sp. p. 4745; Gaz. vol. 162; p. 820.
Vaichis, Aristidis and C., and H. Arvan, Chicago, Ill. Water-elevator. No. 994,487; June 6; Sp. p. 782; Gaz. vol. 167; p. 133.
Vaichis, Cost. (See Vaichis and Arvan.)
Vail, Henry B., assignor of one-half to A. Gay, Arlington, Ohio. Plow-fender. No. 1,005,372; Oct. 10; Sp. p. 1753; Gaz. vol. 171; p. 312.
Vail, Henry W., Macomb, Ill. Stalk-shredder. No. 993,001; May 23; Sp. p. 4660; Gaz. vol. 166; p. 850.
Vail, Herbert E., assignor of one-third to W. R. Andrew and one-third to E. C. Parsons, Salt Lake City, Utah. Combined trolley-pole base and catcher. No. 1,009,357; Nov. 21; Sp. p. 3867; Gaz. vol. 172; p. 673.
Vail, Robert W., New York, N. Y. Rotary pump. No. 1,000,464; Aug. 15; Sp. p. 2667; Gaz. vol. 169; p. 495.
Vail, Walter J., Chicago, Ill., assignor to Grand Crossing Tack Company, Grand Crossing, Ill. Wire-fence machine. No. 1,008,222; Nov. 7; Sp. p. 1242; Gaz. vol. 172; p. 202.
Vale, Baldwin, Stockton, Cal. Water-heater. No. 994,432; June 6; Sp. p. 688; Gaz. vol. 167; p. 118.
Valentin, Auguste, Puteaux, and J. Zerreiss, Courbevoie, France. Producing printing-plates. No. 1,012,762; Dec. 26; Sp. p. 5224; Gaz. vol. 173; p. 936.
Valentine, Fred C., assignor to The United Ladder-Scaffold Company, Cleveland, Ohio. Ladder-scaffold. No. 991,565; May 9; Sp. p. 1589; Gaz. vol. 166; p. 293.
Valentine, Gordon, Chicago, Ill. Self-locking package-depository. No. 1,005,373; Oct. 10; Sp. p. 1754; Gaz. vol. 171; p. 312.
Valenza, Lodovico, South Bethlehem, Pa. Leaf-turning device. No. 1,008,092; Nov. 7; Sp. p. 953; Gaz. vol. 172; p. 153.
Valerius, Theodore L., Fort Atkinson, Wis., assignor to Creamery Package Manufacturing Company, Chicago, Ill. Feeding and mixing device. No. 988,412; Apr. 4; Sp. p. 266; Gaz. vol. 165; p. 43.
Valiant, George, Toronto, Ontario, Canada. Ventilated boot and shoe. No. 1,005,674; Oct. 10; Sp. p. 2438; Gaz. vol. 171; p. 418.
Valiquet, Louis P., New York, N. Y., assignor to Victor Talking Machine Company. Motor for talking-machines. No. 987,272; Mar. 21; Sp. p. 3203; Gaz. vol. 164; p. 579.
Valiquett, Joseph J., and C. F. Roush, Toledo, Ohio. Means for elevating and handling dirt, sand, or the like. No. 1,004,715; Oct. 3; Sp. p. 371; Gaz. vol. 171; p. 61.
Valkelberg, Albert, Hiteman, Iowa. Rail tie and fastening. No. 1,006,319; Oct. 17; Sp. p. 3867; Gaz. vol. 171; p. 676.
Vallarino, Davide, San Leandro, assignor to California Fruit Canners Association, San Francisco, Cal. Can-switch. No. 988,051; Mar. 28; Sp. p. 4914; Gaz. vol. 164; p. 872.
Vallentyne, John F., Minneapolis, Minn. Portable grain-elevator. No. 1,002,014; Aug. 29; Sp. p. 6028; Gaz. vol. 169; p. 1091.
Vallette, Edmond, Kankakee, assignor to Foley & Williams Mfg. Co., Chicago, Ill. Treadle. No. 996,301; June 27; Sp. p. 4859; Gaz. vol. 167; p. 857.
Vallier, John J., Oakland, Cal. Liquid-fuel burner. No. 985,644; Feb. 28; Sp. p. 5175; Gaz. vol. 163; p. 915.
Vallilee, Edward F., and R. L. Post, Syracuse, N. Y., assignors, by mesne assignments, of one-third to said R. L. Post. Indicator. No. 990,930; May 2; Sp. p. 218; Gaz. vol. 166; p. 38.
Vallillee, Leonard A., Buckingham, Quebec, Canada. Internal-combustion engine. No. 983,328; Feb. 7; Sp. p. 151; Gaz. vol. 163; p. 27.
Vallone, Charles, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Support for hinged or other movable members. No. 988,052; Mar. 28; Sp. p. 4916; Gaz. vol. 164; p. 872.
Valve Seating Tool Company, The. (See Sherwood, William D., assignor.)
Van Akin, Samuel L., Jr., Liverpool, N. Y. Telephonic instrument. No. 982,450; Jan. 24; Sp. p. 5040; Gaz. vol. 162; p. 870.
Van Aller, Tycho. (See Andrews and Van Aller.)
Van Berendonck, Philippe, Brussels, Belgium. Pneumatic conveying apparatus. No. 1,005,098; Oct. 3; Sp. p. 1122; Gaz. vol. 171; p. 190.
Van Bergh, Carlos, West Nyack, N. Y. Threshing-machine. No. 1,000,056; Aug. 8; Sp. p. 1731; Gaz. vol. 169; p. 323.
Van Berkel, Wilhelmus A., Rotterdam, Netherlands. Meat-support for meat-slicing machines. No. 1,007,991; Nov. 7; Sp. p. 755; Gaz. vol. 172; p. 119.
Van Blerck, Joseph C. W., Detroit, Mich. Intake-manifold for explosive-engines. No. 980,576; Jan. 3; Sp. p. 872; Gaz. vol. 162; p. 140.
Van Bochove, Richard. (See Haynes, Fred C., assignor.)
Van Brunt, Abram, Bridgeport, Conn. Water-column. No. 1,001,099; Aug. 22; Sp. p. 4117; Gaz. vol. 169; p. 754.
Van Brunt, Abram, Bridgeport, Conn. Valve-release mechanism for steam-engines. No. 1,003,165; Sept. 12; Sp. p. 2154; Gaz. vol. 170; p. 370.
Van Brunt, Willard A., Horicon, Wis. Disk furrow-opener for grain-drills. No. 1,009,869; Nov. 28; Sp. p. 4936; Gaz. vol. 172; p. 892.
Van Buren, Hildebert, Philadelphia, Pa. Combined range and water-heater. No. 981,332; Jan. 10; Sp. p. 2651; Gaz. vol. 162; p. 431.
Van Buskirk, Henry C. (See Pflager and Van Buskirk.)
Van Buskirk, William R. (See Cooper and Van Buskirk.)
Van Court, George H., Chicago, Ill. Bottle-holding receptacle. No. 980,852; Jan. 3; Sp. p. 1435; Gaz. vol. 162; p. 230.
Van Daalen, Herman B., London, England. Actuation of controllers and the like for electric machinery. No. 1,004,314; Sept. 26; Sp. p. 4687; Gaz. vol. 170; p. 829.
Van Dam, Cornelius W. H. (See Appelboom, Pieter A. F., assignor.)
Van De Boe, Charles C., *et al.* (See Farley, Alfred C., assignor.)
Van de Kamp, Willem A. J., Haarlem, Netherlands. Apparatus for preventing explosions and danger from the escape of gas. No. 993,283; May 23; Sp. p. 5240; Gaz. vol. 166; p. 940.
Van der Eerden, Wilhelm, Berlin, Germany. Type-writer. No. 1,007,825; Nov. 7; Sp. p. 396; Gaz. vol. 172; p. 62.
Van der Heyden, Willem, assignor to Naamlooze Vennootschap Algemeene Uitvinding Exploitatie Maatschappy, Amsterdam, Netherlands. Manufacture of an elastic caoutchouc-like substance from animal matter. No. 993,626; May 30; Sp. p. 6005; Gaz. vol. 166; p. 1092.
Van Derveer, Clarence A. (See Morris and Van Derveer.)
Van Deventer, John H., Buffalo, N. Y. Rotary engine. No. 996,169; June 27; Sp. p. 4500; Gaz. vol. 167; p. 813.

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Van Dolsen, Clarence S., Centralia, Ill. Quilting-frame. No. 988,913; Apr. 4; Sp. p. 1300; Gaz. vol. 165; p. 209.
Van Doorn, Charles E., Rochester, N. Y. Mop-wringer. No. 980,710; Jan. 3; Sp. p. 1157; Gaz. vol. 162; p. 184.
Van Dorn & Dutton Company, The. (See Schneider and Dunfee, assignors.)
Van Dorn, Dwight B., and J. T. Whitehouse, assignors to The Van Dorn Iron Works Company, Cleveland, Ohio. Prison-cell-door mechanism. No. 1,007,316; Oct. 31; Sp. p. 6080; Gaz. vol. 171; p. 1109.
Van Dorn Iron Works Company, The. (See Van Dorn, James H., assignor.)
Van Dorn Iron Works Company, The. (See Van Dorn, and Whitehouse, assignors.)
Van Dorn, James H., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Cell-door-locking mechanism. No. 981,037; Jan. 10; Sp. p. 1980; Gaz. vol. 162; p. 326.
Van Dusen, Frank L., assignor to Bingham Trunk Company, Buffalo, N. Y. Door-fastening device. No. 1,002,340; Sept. 5; Sp. p. 372; Gaz. vol. 170; p. 52.
Van Duyne, John R., White Plains, N. Y. Contour-interpolator. No. 986,248; Mar. 7; Sp. p. 1031; Gaz. vol. 164; p. 165.
Van Dyck Gravure Company, The. (See Van Middlesworth, Charles, assignor.)
Van Dyne, William H. (See Clark and Van Dyne.)
Van Egeren, Theodore, Glenburnie, Md. Plow. No. 1,012,032; Dec. 19; Sp. p. 3686; Gaz. vol. 173; p. 641.
Van Engelen, Lucy, Missoula, Mont. Cake-mixer. No. 991,253; May 2; Sp. p. 907; Gaz. vol. 166; p. 154.
Van Gelder, Mozes, Chicago, Ill. Mattress. No. 1,009,703; Nov. 21; Sp. p. 4574; Gaz. vol. 172; p. 783.
Van Gilder, Wayne C., Hammond, Ind. Drafting instrument. No. 1,007,992; Nov. 7; Sp. p. 756; Gaz. vol. 172; p. 120.
Van Hoevenberg, Henry, Lake Placid Club, N. Y. Acetylene-gas lighter. No. 1,008,287; Nov. 7; Sp. p. 1383; Gaz. vol. 172; p. 225.
Van Horn, Thomas M., Chicago, Ill., and L. E. Endsley, La Fayette, assignors to American Spark Arrester Company, Indianapolis, Ind. Spark-arrester. No. 1,012,301; Dec. 19; Sp. p. 4280; Gaz. vol. 173; p. 734.
Van Horn, Vandiver J., Chicago, Ill. Support for washtubs and the like. No. 1,012,302; Dec. 19; Sp. p. 4282; Gaz. vol. 173; p. 734.
Van Houweling, Arthur C., Pella, Iowa. Band-cutter and feeder. No. 985,478; Feb. 28; Sp. p. 4833; Gaz. vol. 163; p. 859.
Van Huffel, Peter, Galesburg, Ill. Feed-mill. No. 989,087; Apr. 11; Sp. p. 1678; Gaz. vol. 165; p. 292.
Van Kannel Revolving Door Company. (See Haviland, Edward C., assignor.)
Van Keep, Paulus F., Breda, assignor to Amsterdamsche Maatschappij tot Exploitatie van Uitvindingen, Amsterdam, Netherlands. Spring-wheel. No. 1,012,033; Dec. 19; Sp. p. 3688; Gaz. vol. 173; p. 642.
Van Keuren, George P., Lyndonville, N. Y. Horse-collar pad. No. 1,012,763; Dec. 26; Sp. p. 5231; Gaz. vol. 173; p. 937.
Van Kooy, Kornelis, Clara City, Minn. Harvester-reel. No. 991,213; May 2; Sp. p. 826; Gaz. vol. 166; p. 140.
Van Liew, Neilson W. (See Bancroft and Van Liew.)
Van Luven, Mary E., Oakland, Cal. Irrigating vessel. No. 1,005,675; Oct. 10; Sp. p. 2440; Gaz. vol. 171; p. 418.
Van Meter, Emma G., *et al.* (See Crowder and Sansbury, assignors.)
Van Meter, Joseph C., *et al.* (See Crowder and Sansbury, assignors.)
Van Middlesworth, Charles, Brooklyn, assignor to The Van Dyck Gravure Company, New York, N. Y. Drop-guide and operating mechanism therefor. No. 1,008,288; Nov. 7; Sp. p. 1385; Gaz. vol. 172; p. 225.
Van Middlesworth, Charles, Brooklyn, assignor to The Van Dyck Gravure Company, New York, N. Y. Feeding mechanism for paper. No. 1,008,289; Nov. 7; Sp. p. 1388; Gaz. vol. 172; p. 226.
Van Middlesworth, William, Centerville, Mich., assignor of one-half to O. R. Hunt, Chicago, Ill. Spring structure. No. 1,012,939; Dec. 26; Sp. p. 5674; Gaz. vol. 173; p. 997.
Van Natta, Clarence, Potosi, Wis. Check-row wire. No. 989,452; Apr. 11; Sp. p. 2447; Gaz. vol. 165; p. 414.
Van Nette, Luther, Bradford, Pa. Vacuum-cleaner. No. 1,004,504; Sept. 26; Sp. p. 5079; Gaz. vol. 170; p. 894.
Van Nieuwkerk, William, and T. Gutcheis, Passaic, N. J. Spring-wheel. No. 1,000,645; Aug. 15; Sp. p. 3097; Gaz. vol. 169; p. 562.
Van Norman, Joseph T., and G. A. Baxter, Meridian, Miss. Cylinder bleed-cock. No. 1,011,531; Dec. 12; Sp. p. 2551; Gaz. vol. 173; p. 432.
Van Nort, James L. (See Godlove and Van Nort.)
Van Nostran, Edgar M., Wabash, Ind. Aerial conduit and cable-guard. No. 989,212; Apr. 11; Sp. p. 1934; Gaz. vol. 165; p. 335.
Van Note, Ella E. (See Jadronja, Mark, assignor.)
Van Nuis, Charles S., New Brunswick, N. J. Electric switch. No. 981,823; Jan. 17; Sp. p. 3683; Gaz. vol. 162; p. 622.
Van Nuis, Charles S., Philadelphia, Pa. Electric switch. No. 983,660; Feb. 7; Sp. p. 870; Gaz. vol. 163; p. 139.
Van Oosterwyck, Jean, Liege, Belgium. Steam-generator. No. 981,722; Jan. 17; Sp. p. 3450; Gaz. vol. 162; p. 585.
Van Oosterwyck, Jean, Liege, Belgium. Tubular boiler. No. 1,004,315; Sept. 26; Sp. p. 4691; Gaz. vol. 170; p. 830.
Van Orsdel, John C., Youngstown, Ohio. Driving and steering gear for self-propelled vehicles. No. 998,725; July 25; Sp. p. 4640; Gaz. vol. 168; p. 842.
Van Ostrand, Cliffton J., Ashland, Ohio. Earth-anchor. No. 1,008,501; Nov. 14; Sp. p. 1979; Gaz. vol. 172; p. 339.
Van Pelt, Ada H., Los Angeles, Cal. Apparatus for utilizing momentum. No. 1,002,610; Sept. 5; Sp. p. 960; Gaz. vol. 170; p. 143.
Van Pelt, Frank. (See Pulliam and Van Pelt.)
Van Pool, Elmer E. and P. J., Janesville, Wis. Base-board radiator. No. 1,010,205; Nov. 28; Sp. p. 5619; Gaz. vol. 172; p. 1005.
Van Pool, Perry J. (See Van Pool, Elmer E. and P. J.)
Van Raalte, Frank. (See Wolfe, Walter G., assignor.)
Van Riper, Lewis C., New York, N. Y. Self-closing receptacle. No. 985,955; Mar. 7; Sp. p. 421; Gaz. vol. 164; p. 68.
Van Sant, James A., San Diego, Cal. Stage apparatus. No. 984,322; Feb. 14; Sp. p. 2322; Gaz. vol. 163; p. 393.
Van Saun, Peter E., assignor to Mill and Smelter Engineering Company, New York, N. Y. Chilian mill. No. 985,305; Feb. 28; Sp. p. 4444; Gaz. vol. 163; p. 799.
Van Schoick, Charles L., Milwaukee, assignor of one-third to H. R. Spencer and one-third to M. F. Spencer, Portland, Oreg. Cooler for internal-combustion engines. No. 984,982; Feb. 21; Sp. p. 3697; Gaz. vol. 163; p. 653.
Van Schoonhoven, William J., Raspeburg, Md. Trap-nest. No. 999,920; Aug. 8; Sp. p. 1459; Gaz. vol. 169; p. 277.
Van Scoten, John D., *et al.* (See Griffin, William H., assignor.)
Van Scoter Current Water Power Company. (See Van Scoter, William, assignor.)
Van Scoter, William, assignor to Van Scoter Current Water Power Company, Buffalo, N. Y. Water-wheel. No. 1,008,396; Nov. 14; Sp. p. 1718; Gaz. vol. 172; p. 302.
Van Scoter, William, assignor of one-fourth to W. J. Hayes, Buffalo, N. Y. Cranking device for gas-engines. No. 1,012,116; Dec. 19; Sp. p. 3881; Gaz. vol. 173; p. 671.
Van Sickel, Wilber H., Philadelpha, Pa., assignor to Thos. H. Dallett Co. Pneumatic tool. No. 998,659; July 25; Sp. p. 4486; Gaz. vol. 168; p. 819.
Van Sickle, Paul A., assignor to Verity Plow Company, Limited, Brantford, Ontario, Canada. Gang-plow. No. 1,009,269; Nov. 21; Sp. p. 3673; Gaz. vol. 172; p. 640.
Van Slyke, John C., Fort Collins, Colo. Cot attachment for invalid-beds. No. 985,306; Feb. 28; Sp. p. 4446; Gaz. vol. 163; p. 799.
Van Slyke, John C., Fort Collins, Colo. Attachment for invalid-beds. No. 985,307; Feb. 28; Sp. p. 4447; Gaz. vol. 163; p. 800.
Van Tassel, Jefferson M., Conneaut, Ohio. Drain-spout. No. 1,012,764; Dec. 26; Sp. p. 5232; Gaz. vol. 173; p. 937.
Van Tassel, John R. (See Ungerer and Van Tassel.)
Van Tienen, Wilhelm O. T., Rotterdam, assignor to De Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Treatment of acid tar. No. 1,000,646; Aug. 15; Sp. p. 3099; Gaz. vol. 169; p. 562.
Van Valkenburg, Hermon L., Norwood, Ohio, assignor to Bullock Electric Manufacturing Company. Electrically-operated circuit-breaker. No. 987,775; Mar. 28; Sp. p. 4261; Gaz. vol. 164; p. 777.
Van Valkenburg, Hermon L., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. System of electrical distribution. No. 1,005,904; Oct. 17; Sp. p. 2918; Gaz. vol. 171; p. 530.
Van Valkenburg, Hermon L., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. System of electrical distribution. No. 1,005,905; Oct. 17; Sp. p. 2924; Gaz. vol. 171; p. 530.
Van Valkenburg, Hermon L., Norwood, Ohio, assignor to The Bullock Electric Manufacturing Company. Circuit-breaker. No. 1,011,097; Dec. 5; Sp. p. 1533; Gaz. vol. 173; p. 242.
Van Valkenburg, Randall J. (See Neal and Van Valkenburg.)
Van Vechten, Orville R., Tompkinsville, assignor, by mesne assignments, of one-half to F. J. Grace, New York, N. Y. Braiding-machine. No. 988,678; Apr. 4; Sp. p. 829; Gaz. vol. 165; p. 134.
Van Vliet, Arthur. (See Maxlow and Van Vliet.)
Van Volkenburgh, Philip. (See Newcomb, Edward C., assignor.)
Van Voorhis, Jesse O., Osawatomie, Kans. Firearm. No. 985,308; Feb. 28; Sp. p. 4448; Gaz. vol. 163; p. 800.
Van Voorhis, Lemert C., Salt Lake City, Utah. Statement and balance book. No. 992,618; May 16; Sp. p. 3848; Gaz. vol. 166; p. 686.
Van Vorce, Bert, assignor of one-half to S. D. Fraser, Los Angeles, Cal. Ice-cream stand. No. 985,309; Feb. 28; Sp. p. 4449; Gaz. vol. 163; p. 800.
Van Wagenen, Edward. (See Hubbard and Van Wagenen.)

Alphabetical list of patentees—Continued.

Van Wagenen, Edward, New York, N. Y., assignor to Gould Storage Battery Company. Electrical system of distribution. No. 1,003,829; Sept. 19; Sp. p. 3562; Gaz. vol. 170; p. 633.
Van Weede, Hendrik M., Washington, D. C. Boat. No. 996,738; July 4; Sp. p. 275; Gaz. vol. 168; p. 48.
Van Wert, Earl C. L., Valhalla, N. Y. Conveyer. No. 999,419; Aug. 1; Sp. p. 448; Gaz. vol. 169; p. 79.
Van Westrum, Leonard S., Berlin, Germany, assignor to Westrumite Company of America, Chicago, Ill. Manufacturing watery solutions of oils, fats, tar, asphalt, &c. No. 992,313; May 16; Sp. p. 3192; Gaz. vol. 166; p. 580.
Van Winkle, Ralph F., Erie, Pa. Fountain-pen. No. 995,307; June 13; Sp. p. 2598; Gaz. vol. 167; p. 450.
Van Wormer, John R., Toledo, Ohio, assignor to The Weis-Van Wormer Company. Package for liquids. No. 998,309; July 18; Sp. p. 3748; Gaz. vol. 168; p. 666.
Van Wyck, Anna B., *et al.*, executrices. (See Van Wyck, James P.)
Van Wyck, Augusta P., *et al.*, executrices. (See Van Wyck, James P.)
Van Wyck, James P., deceased, Hudson, N. Y.; A. B. and A. P. Van Wyck, executrices. Horseshoe-calk. No. 986,956; Mar. 14; Sp. p. 2535; Gaz. vol. 164; p. 438.
Van Wye, Garry P., New York, N. Y. Snow-melting apparatus. No. 1,004,113; Sept. 26; Sp. p. 4273; Gaz. vol. 170; p. 762.
Van Wye, Garry P., New York, assignor by mesne assignments, of two-thirds to E. B. Skinner and one-third to L. H. Reynolds, Brooklyn, N. Y. Vacuum-insulated bottle. No. 1,005,087; Oct. 3; Sp. p. 1101; Gaz. vol. 171; p. 186.
Van Yorx, Percival K., assignor to The Wilcox & White Company, Meriden, Conn. Expression-marking for note-sheets. No. 982,648; Jan. 24; Sp. p. 5418; Gaz. vol. 162; p. 935.
Van Yorx, Percival K., assignor to The Wilcox & White Company, Meriden, Conn. Expression-marking for note-sheets. No. 1,001,566; Aug. 22; Sp. p. 5041; Gaz. vol. 169; p. 909.
Vanatta, John C. (See Lawrence, William G., assignor.)
Vance, Harvey G., St. Louis, Mo. Lubricating-pulley. No. 1,012,482; Dec. 19; Sp. p. 4620; Gaz. vol. 173; p. 792.
Vance, Herman E., Columbus, Ohio. Fireproof window-frame. No. 982,317; Jan. 24; Sp. p. 4745; Gaz. vol. 162; p. 820.
Vance, James R., Geneva, N. Y. Steam-boiler. No. 983,184; Jan. 31; Sp. p. 6564; Gaz. vol. 162; p. 1142.
Vance, James W., Ligonier, Ind. Sack-holder. No. 983,185; Jan. 31; Sp. p. 6566; Gaz. vol. 162; p. 1142.
Vance, John R. (See Lottridge, William M., assignor.)
Vance, William H., San Francisco, Cal. Salt-shaker. No. 981,333; Jan. 10; Sp. p. 2653; Gaz. vol. 162; p. 432.
Vancil, Samuel A., Greenway, Ark. Feed-box for poultry. No. 980,367; Jan. 3; Sp. p. 380; Gaz. vol. 162; p. 67.
Vandemar, Edmund O., Portland, Oreg. Fire-door for elevators. No. 983,465; Feb. 7; Sp. p. 445; Gaz. vol. 163; p. 71.
Vanderburg, Edward, *et al.* (See Cooper and Prismall, assignors.)
Vandercook, Robert O., Chicago, Ill. Proof printing-press. No. 992,461; May 16; Sp. p. 3501; Gaz. vol. 166; p. 630.
Vandercook, Wesley, Jr., Lake Charles, La. Rail-fastener. No. 1,003,306; Sept. 12; Sp. p. 2457; Gaz. vol. 170; p. 423.
Vanderkleed, Charles E. (See Turner and Vanderkleed.)
Vanderkleed, Charles E., Collingswood, N. J., assignor to H. K. Mulford Company, Philadelphia, Pa. Preparing extractive compounds of the suprarenal gland. No. 1,000,214; Aug. 8; Sp. p. 2126; Gaz. vol. 169; p. 378.
Vandermark, Edwin H., *et al.* (See Downer, John H., assignor.)
Vanderpool, Harry, Turtle Creek, assignor to Braddock Ornamental Iron and Wire Works, Braddock, Pa. Electric heating-iron. No. 981,334; Jan. 10; Sp. p. 2654; Gaz. vol. 162; p. 432.
Vanderveld, Anthony, assignor to Grand Rapids Show Case Co., Grand Rapids, Mich. Rotary display-rack. No. 1,004,605; Oct. 3; Sp. p. 123; Gaz. vol. 171; p. 21.
Vanderveld, Anthony, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Movable garment-support for wardrobes. No. 1,005,374; Oct. 10; Sp. p. 1756; Gaz. vol. 171; p. 313.
Vanderveld, Anthony, assignor to Grand Rapids Show Case Co., Grand Rapids, Mich. Adjustable bracket. No. 1,005,375; Oct. 10; Sp. p. 1757; Gaz. vol. 171; p. 313.
Vandervell, Charles A. (See Midgley and Vandervell.)
Vandervoort, Freegift, Carrizo Springs, Tex. Coin-holder. No. 992,087; May 9; Sp. p. 2640; Gaz. vol. 166; p. 470.
Vandervort, Charles F. (See Vandervort, Pitt, and Vandervort.)
Vandervort, Charles L., O. J. Pitt, and C. F. Vandervort, Enderlin, N. D. Automobile-tire. No. 983,008; Jan. 31, Sp. p. 6220; Gaz. vol. 162; p. 1084.
Vandevender, William. (See Worsham and Vandevender.)
Vandin, Jonas, Somerville, Mass. Pneumatic-motor apparatus. No. 1,006,810; Oct. 24; Sp. p. 4961; Gaz. vol. 171; p. 879.
Vandiver, Leslie A., Chicago, Ill. Vending-machine. No. 1,012,940; Dec. 26; Sp. p. 5676; Gaz. vol. 173; p. 997.
Vanhook, Henry B., Washington, N. C. Attachment for piano-pedals. No. 985,304; Feb. 28; Sp. p. 4443; Gaz. vol. 163; p. 799.
Vanhook, Henry B., Washington, N. C. Guard for pedal-openings of pianos. No. 997,163; July 4; Sp. p. 1203; Gaz. vol. 168; p. 194.
Vaniman, Melvin, Gennevilliers, France. Propelling mechanism for airships. No. 982,647; Jan. 24; Sp. p. 5417; Gaz. vol. 162; p. 935.
Vanmanen, William, Grand Rapids, Mich. Warehouse-truck. No. 988,677; Apr. 4; Sp. p. 827; Gaz. vol. 165; p. 133.
Vannatter, John E., assignor of one-third to P. Schurg and one-third to J. Nolan, Philadelphia, Pa. Water-level recording and indicating device for steam-boilers. No. 996,170; June 27; Sp. p. 4507; Gaz. vol. 167; p. 814.
Vanneman, Howard, and C. Zimmerlin, New York, N. Y. Apparatus and method of transferring and candling eggs. No. 1,000,644; Aug. 15; Sp. p. 3095; Gaz. vol. 169; p. 561.
Vannette, Jasper, Tiffin, Ohio. Sewing-machine. No. 998,053; July 18; Sp. p. 3142; Gaz. vol. 168; p. 572.
Vanorman, William H., Auburn, N. Y. Artificial rawhide leg. No. 995,817; June 20; Sp. p. 3776; Gaz. vol. 167; p. 658.
Vanskike, Newton J., and G. H. Ebert, Prescott, Wash. Weeder. No. 987,512; Mar. 21; Sp. p. 3691; Gaz. vol. 164; p. 659.
Vanstone, Samuel, Providence, R. I. Mechanism for smoothing and polishing the edges of nut-blanks. No. 990,687; Apr. 25; Sp. p. 5227; Gaz. vol. 165; p. 902.
Varchmin, Arthur, and W. J. Kittle, Pearl River, N. Y. Adjustable hinge. No. 992,617; May 16; Sp. p. 3847; Gaz. vol. 166; p. 685.
Varia, Pietro, White Plains, N. Y. Coin-controlled apparatus. No. 1,012,941; Dec. 26; Sp. p. 5681; Gaz. vol. 173; p. 997.
Variety Manufacturing Company. (See Gervais, Wainwright B., assignor.)
Variety Manufacturing Company. (See Gilmore, Millard, assignor.)
Varin, Victor, Montreal, Quebec, Canada. Chain-saw mortiser attachment. No. 997,345; July 11; Sp. p. 1584; Gaz. vol. 168; p. 287.
Varley, Richard, Englewood, N. J., assignor to The Autocoil Company. Induction-coil. No. 986,033; Mar. 7; Sp. p. 597; Gaz. vol. 164; p. 96.
Varner, Samuel B., *et al.* (See Kneeland, Matt, assignor.)
Varner, Samuel B., Granby, Mo. Door-bolt socket. No. 1,005,906; Oct. 17; Sp. p. 2929; Gaz. vol. 171; p. 531.
Varney, John W., *et al.* (See Urbach, John T., assignor.)
Varney, Nathan E., Denver, Colo. Miner's folding candlestick. No. 1,011,878; Dec. 12; Sp. p. 3316; Gaz. vol. 173; p. 551.
Varney, Theodore, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Overhead structure for electric railways. No. 1,010,096; Nov. 28; Sp. p. 5407; Gaz. vol. 172; p. 969.
Varnum, Charles W., *et al.* (See Stanley, Thomas H., assignor.)
Vater, George C. F. (See Heuss and Vater.)
Vauclain, Andrew C., Philadelphia, Pa. Drilling-tool. No. 984,323; Feb. 14; Sp. p. 2324; Gaz. vol. 163; p. 394.
Vaughan, Alonzo, Houston, Tex. Combined board-set and nail-driver. No. 1,000,859; Aug. 15; Sp. p. 3538; Gaz. vol. 169; p. 636.
Vaughan, Bernard G., Joliet, Ill., assignor to National Match Company. Match-making machine. No. 1,010,822; Dec. 5; Sp. p. 928; Gaz. vol. 173; p. 146.
Vaughan, Bernard G., assignor to National Match Company, Joliet, Ill. Match-box-filling machine. No. 1,010,823; Dec. 5; Sp. p. 934; Gaz. vol. 173; p. 147.
Vaughan, Bernard G., assignor to National Match Company, Joliet, Ill. Setting-head for match-making machines. No. 1,010,824; Dec. 5; Sp. p. 942; Gaz. vol. 173; p. 147.
Vaughan, Bernard G., assignor to National Match Company, Joliet, Ill. Setting-head for match-making machines. No. 1,010,825; Dec. 5; Sp. p. 945; Gaz. vol. 173; p. 148.
Vaughan, Bernard G., assignor to National Match Company, Joliet, Ill. Setting-head for match-making machines. No. 1,010,826; Dec. 5; Sp. p. 947; Gaz. vol. 173; p. 148.
Vaughan, Bernard G., assignor to National Match Company, Joliet, Ill. Match-making machine. No. 1,010,827; Dec. 5; Sp. p. 949; Gaz. vol. 173; p. 148.
Vaughan, Bernard G., assignor to National Match Company, Joliet, Ill. Box-filling machine. No. 1,010,828; Dec. 5; Sp. p. 952; Gaz. vol. 173; p. 149.
Vaughan, Charles C., Florence, Ala. Spirit-level for contractors. No. 999,066; July 25; Sp. p. 5411; Gaz. vol. 168; p. 963.
Vaughan, Henry H., *et al.* (See Grahn, Thorwald E., assignor.)
Vaughan, Henry H., Montreal, Quebec, Canada, assignor of one-half to Locomotive Superheater Co., New York, N. Y. Steam-boiler superheater. No. 994,045; May 30; Sp. p. 6875; Gaz. vol. 166; p. 1235.

Alphabetical list of patentees—Continued.

Vaughan, Henry L., El Paso, Tex. Fiber-cleaning machine. No. 998,054; July 18; Sp. p. 3145; Gaz. vol. 168; p. 572.
Vaughan, Henry L., El Paso, Tex. Fiber-cleaning machine. No. 1,001,481; Aug. 22; Sp. p. 4873; Gaz. vol. 169; p. 879.
Vaughan, Thomas M., Detroit, Mich., assignor to Box Office Ticket Printing Machine Company. Ticket-printing machine. No. 980,711; Jan. 3; Sp. p. 1159; Gaz. vol. 162; p. 184.
Vaughan, Thomas M., Detroit, Mich., assignor to Box Office Ticket Printing Machine Company. Ticket-printing machine. No. 984,403; Feb. 14; Sp. p. 2477; Gaz. vol. 163; p. 419.
Vaughn, Calvin W., Cuyahoga Falls, Ohio. Safety device for die-holders. No. 981,335; Jan. 10; Sp. p. 2656; Gaz. vol. 162; p. 432.
Vaughn, De Will G., assignor of one-half to D. A. Shaffer, Richmond, Va. Valve-grinding device. No. 1,010,829; Dec. 5; Sp. p. 955; Gaz. vol. 173; p. 149.
Vaughn, Francis E., Tippecanoe City, Ohio. Explosive-gas engine. No. 1,012,034; Dec. 19; Sp. p. 3689; Gaz. vol. 173; p. 642.
Vaughn, Francis W., Jr., West Medford, Mass. Fountain-pen. No. 984,116; Feb. 14; Sp. p. 1875; Gaz. vol. 163; p. 322.
Vaughn, Marion E., Plainfield, Ind. Excessive-electrical-current arrester. No. 982,551; Jan. 24; Sp. p. 5243; Gaz. vol. 162; p. 904.
Vaughn Rail Support Co. (See Vaughn, Thomas E., assignor.) (Reissue.)
Vaughn, Thomas E., assignor to Vaughn Rail Support Co., Chicago, Ill. Rail-support. (Reissue.) No. 13,306; Oct. 31; Sp. p. 6840; Gaz. vol. 171; p. 1231.
Vautier, Maurice A. (See Bailly, Vautier, and Godard.)
Veale, Farley D., Washington, D. C. Elastic horseshoe. No. 1,000,215; Aug. 8; Sp. p. 2127; Gaz. vol. 169; p. 378.
Veatch, Frank G. (See Ross and Veatch.)
Veazie, Henry A., New Orleans, La. Pencil. No. 1,012,765; Dec. 26; Sp. p. 5234; Gaz. vol. 173; p. 937.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Register. No. 1,000,860; Aug. 15; Sp. p. 3539; Gaz. vol. 169; p. 636.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Odometer. No. 1,000,861; Aug. 15; Sp. p. 3541; Gaz. vol. 169; p. 637.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Odometer. No. 1,002,015; Aug. 29; Sp. p. 6031; Gaz. vol. 169; p. 1091.
Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Odometer. No. 1,002,016; Aug. 29; Sp. p. 6032; Gaz. vol. 169; p. 1092.
Veeder Manufacturing Company. (See Trowbridge, Amasa, assignor.)
Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
Vehicle Storm & Top Co. (See Jordan, William H., assignor.)
Veil, Harry F. (See Hern and Veil.)
Veitch, Leslie W., Des Moines, Iowa. Vegetable-cutter. No. 1,003,674; Sept. 19; Sp. p. 3237; Gaz. vol. 170; p. 584.
Veitch, Thomas, Dumont, N. J., assignor to W. S. Thomson, New York, N. Y. Internal-combustion engine. No. 1,009,945; Nov. 28; Sp. p. 5083; Gaz. vol. 172; p. 917.
Velen, Luther T., Cleburne, Kans. Cradle. No. 981,336; Jan. 10; Sp. p. 2658; Gaz. vol. 162; p. 432.
Velie Motor Vehicle Company. (See Fuller, Lawson M., assignor.)
Venable, William H., *et al.* (See Poe, George, assignor.)
Venard, William G., Seattle, Wash. Bracket. No. 985,079; Feb. 21; Sp. p. 3890; Gaz. vol. 163; p. 687.
Veneer Machinery Company, The. (See Dennis, Alfred A., assignor.)
Venn, Isaac H., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Automatic stop-valve for hydraulic elevators. No. 986,328; Mar. 7; Sp. p. 1193; Gaz. vol. 164; p. 193.
Venn Manufacturing Company, The. (See Dennis, Oliver C., assignor.)
Venner, William N., Brockley, England. Apparatus for machining helical surfaces. No. 1,001,908; Aug. 29; Sp. p. 5802; Gaz. vol. 169; p. 1056.
Venners, James H., assignor of one-half to W. L. Millspaugh, Brooklyn, N. Y. Traction-engine. No. 1,010,988; Dec. 5; Sp. p. 1293; Gaz. vol. 173; p. 205.
Veno, James, Vancouver, British Columbia, Canada. Non-refillable bottle. No. 988,413; Apr. 4; Sp. p. 268; Gaz. vol. 165; p. 43.
Ventilated Cushion and Spring Co. (See Smith, Watson R., assignor.)
Venturi Alarm Company. (See Hamilton, John R., assignor.)
Ver Planck, William E., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. No. 1,010,466; Dec. 5; Sp. p. 132; Gaz. vol. 173; p. 25.
Vercelli, Bernard, *et al.* (See Fessia, Charles, assignor.)
Verdier, Mary, Oakland, Cal. Orchestral transposition-chart. No. 996,542; June 27; Sp. p. 5369; Gaz. vol. 167; p. 939.
Verdin, Alois N., and W. H. Kappes, Glendale, assignors to Verdin, Kappes & Verdin, Cincinnati, Ohio. Forming-press. No. 1,004,829; Oct. 3; Sp. p. 601; Gaz. vol. 171; p. 99.
Verdin, Innes T., Cincinnati, Ohio. Hanger. No. 987,776; Mar. 28; Sp. p. 4264; Gaz. vol. 164; p. 777.
Verdin, Kappes & Verdin. (See Verdin and Kappes, assignors.)
Vereinigte Chininfabriken Zimmer & Co., G. m. b. H. (See Thron, Heinrich, assignor.)
Veres, Frank, Russellville, Ky. Foundation for buildings in earthquake localities. No. 981,824; Jan. 17; Sp. p. 3686; Gaz. vol. 162; p. 622.
Verge, Reginald E., Halifax, Nova Scotia, Canada. Air-cushion for vehicles. No. 1,008,290; Nov. 7; Sp. p. 1389; Gaz. vol. 172; p. 226.
Verges, George, Washington, D. C. Newspaper-holder. No. 1,005,376; Oct. 10; Sp. p. 1758; Gaz. vol. 171; p. 313.
Verges, Henry A. (See Duenkel, Charles L., assignor.)
Vergona, Frank A., Boston, Mass. Bottle. No. 999,067; July 25; Sp. p. 5412; Gaz. vol. 168; p. 963.
Verhoeven, Arnold, Marianna, and W. R. Oliver, Walnut Ridge, Ark.; said Oliver assignor to said Verhoeven. Station or street indicator. No. 988,839; Apr. 4; Sp. p. 1166; Gaz. vol. 165; p. 186.
Verity Plow Company. (See Van Sickle, Paul A., assignor.)
Vermeer, Johan J., Oakland, Cal. Printing-telegraph. No. 985,233; Feb. 28; Sp. p. 4283; Gaz. vol. 163; p. 775.
Vermillion, Charles F., Lemonville, Mo. Spark-deflector. No. 982,318; Jan. 24; Sp. p. 4746; Gaz. vol. 162; p. 821.
Vermond, Edmond N. (See Quellennec, Edouard M., assignor.)
Vernaz, Eugene, Geneva, Switzerland. Filing or planing tool. No. 991,566; May 9; Sp. p. 1591; Gaz. vol. 166; p. 293.
Vernet, Arthur, Dijon, France. Multiple-milling machine. No. 988,231; Mar. 28; Sp. p. 5252; Gaz. vol. 164; p. 932.
Vernet. Arthur, Dijon, France. Means for mounting the tools of milling-machines. No. 997,024; July 4; Sp. p. 923; Gaz. vol. 168; p. 147.
Verneuil, Auguste V. L., Paris, France, assignor to L. Heller & Son, New York, N. Y. Producing synthetic sapphires. No. 988,230; Mar. 28; Sp. p. 5250; Gaz. vol. 164; p. 931.
Verneuil, Auguste V. L., Paris, France, assignor to L. Heller & Son, New York, N. Y. Synthetic sapphire. No. 1,004,505; Sept. 26; Sp. p. 5082; Gaz. vol. 170; p. 895.
Vernier, Charles P., Cedar Rapids, Iowa. Silo-door. No. 1,009,809; Nov. 28; Sp. p. 4812; Gaz. vol. 172; p. 872.
Vernon, Henry H., Hawarden, Iowa. Disk-sharpener. No. 1,005,487; Oct. 10; Sp. p. 1996; Gaz. vol. 171; p. 351.
Vernon-Inkpen, George C., Portsmouth, England. Concrete pile. No. 996,688; July 4; Sp. p. 179; Gaz. vol. 168; p. 32.
Vernon, Thomas G., and R. C. Brophy, Chicago, Ill., assignors, by mesne assignments, to The Ransom & Randolph Co., Toledo, Ohio. Apparatus for forming castings. No. 985,080; Feb. 21; Sp. p. 3891; Gaz. vol. 163; p. 687.
Vernon, Walter, Mount Vernon, Ohio. Combined mop-wringer and scrub-brush holder. No. 980,712; Jan. 3; Sp. p. 1161; Gaz. vol. 162; p. 185.
Verplanck, Holly M., assignor to Lansing Wheelbarrow Company, Lansing, Mich. Turn-table. No. 1,004,114; Sept. 26; Sp. p. 4279; Gaz. vol. 170; p. 762.
Verplast, Frederick, Boston, Mass. Adjustable means for affixing pointers to shafts. No. 1,011,285; Dec. 12; Sp. p. 2005; Gaz. vol. 173; p. 345.
Verret, Nicholas J., Little Rock, Ark. Illuminating-lamp. No. 996,436; June 27; Sp. p. 5167; Gaz. vol. 167; p. 905.
Versen, Bruno, Dortmund, Germany. Gas-producer. No. 987,195; Mar. 21; Sp. p. 3040; Gaz. vol. 164; p. 551.
Verwys, Adrian L. H. (See Brochu and Verwys.)
Verwys, Martin C. (See Brochu and Verwys.)
Vesey, Richard H., Denver, Colo., assignor to T. E. Stevens, Omaha, Nebr., and C. C. Denny, Chicago Heights, Ill. Post-hole auger. No. 980,853; Jan. 3; Sp. p. 1435; Gaz. vol. 162; p. 230.
Vessot, Samuel, and O. Riendeau, Joliette, Quebec, Canada. Whip-operating attachment for hay-presses or the like. No. 1,002,790; Sept. 5; Sp. p. 1347; Gaz. vol. 170; p. 204.
Vessot, Samuel, E. Nadeau, and A. Paquin, Joliette, Quebec, Canada; said Paquin assignor to said Vessot. Candy forming and cutting machine. No. 986,878; Mar. 14; Sp. p. 2386; Gaz. vol. 164; p. 413.
Vesta Accumulator Co. (See Perry and Eis, assignors.)
Vesta Accumulator Company. (See Morrison, William, assignor.)
Vestal, William B., administrator. (See O'Brien, James F.)
Vestine, Andrew O. (See Miller, Charles L., assignor.)
Vetter, Charles J. (See Straubel and Vetter.)
Vetter, John C. (See Brookins and Vetter.)
Vial, Frederick K., Chicago, Ill., assignor to Griffin Wheel Company. Car-wheel. No. 994,350; June 6; Sp. p. 511; Gaz. vol. 167; p. 88.
Vial, Frederick K., assignor to Griffin Wheel Company, Chicago, Ill. Making locally-hardened castings. No. 1,004,115; Sept. 26; Sp. p. 4280; Gaz. vol. 170; p. 762.

Alphabetical list of patentees—Continued.

Vial, John, *et al.* (See Vial, William, assignor.)
Vial, William, Swissvale, assignor of one-third to W. D. Berry, New Brighton, and one-third to J. Vial, Braddock, Pa. Injector-valve. No. 1,002,884; Sept. 12; Sp. p. 1586; Gaz. vol. 170; p. 275.
Viall, William G., Bridgeport, Conn. Toy electric movement. No. 988,914; Apr. 4; Sp. p. 1302; Gaz. vol. 165; p. 209.
Viani, Elia F., assignor of one-half to J. H. Wucher, Chicago, Ill. Artificial-block structure. No. 996,437; June 27; Sp. p. 5169; Gaz. vol. 167; p. 905.
Vick, August O., Chicago, Ill. Mortising-machine. No. 990,316; Apr. 25; Sp. p. 4367; Gaz. vol. 165; p. 774.
Vick, August O., Chicago, Ill. Mortising-machine. No. 1,009,201; Nov. 21; Sp. p. 3486; Gaz. vol. 172; p. 615.
Vick, Rollo M., Detroit, Mich. Record-cabinet. No. 984,051; Feb. 14; Sp. p. 1746; Gaz. vol. 163; p. 300.
Vickers, Edwin J., New Philadelphia, Ohio. Account-file. No. 992,299; May 16; Sp. p. 3156; Gaz. vol. 166; p. 574.
Vickers, John W., Jersey City, N. J. Snow-plow. No. 993,739; May 30; Sp. p. 6270; Gaz. vol. 166; p. 1132.
Vickers Sons & Maxim. (See Dawson and Buckham, assignors.)
Vickers Sons & Maxim. (See Dawson and Horne, assignors.)
Vickers Sons & Maxim. (See Williamson, Alfred D., assignor.)
Vickers Sons & Maxim Limited. (See Peddie, John T., assignor.)
Vickers Sons & Maxim Limited. (See Smith, William J., assignor.)
Vickery, Benjamin F., Girard, Ala. Friction tool-holder. No. 993,421; May 30; Sp. p. 5560; Gaz. vol. 166; p. 1021.
Vickery, Frederick W., London, England. Machine for feeding or separating sheets of paper and the like. No. 997,025; July 4; Sp. p. 925; Gaz. vol. 168; p. 147.
Vickery, Frederick W., London, England. Sheet-feeding apparatus. No. 997,026; July 4; Sp. p. 928; Gaz. vol. 168; p. 147.
Vickery, George A., Medford, Mass. Making brushes. No. 997,346; July 11; Sp. p. 1586; Gaz. vol. 168; p. 287.
Vickery, Ila F., *et al.* (See Morris, George A., assignor.)
Vickery, Nelson. (See Stow and Vickery.)
Victor, Alexander F., Toledo, Ohio, assignor to White Lily Manufacturing Company, Davenport, Iowa. Gearing. No. 1,009,270; Nov. 21; Sp. p. 3675; Gaz. vol. 172; p. 641.
Victor Appliance Company, The. (See Bigelman, Augustus, assignor.)
Victor Chemical Works. (See Brown and Holbrook, assignors.)
Victor Electric Company. (See Wantz, Julius B., assignor.)
Victor Manufacturing Company. (See Moody, Henry T., assignor.)
Victor Safe & Lock Co., The. (See Hattersley and Koenig, assignors.)
Victor Sporting Goods Company. (See Rogers, Burt T., assignor.)
Victor Talking Machine Company. (See Babson and Haug, assignors.)
Victor Talking Machine Company. (See English, John C., assignor.)
Victor Talking Machine Company. (See Hewitt, Albertis, assignor.)
Victor Talking Machine Company. (See Owen, James W., assignor.)
Victor Talking Machine Company. (See Troth, Harry W., assignor.)
Victor Talking Machine Company. (See Valiquet, Louis P., assignor.)
Victorius, Myer L., New York, N. Y. Developing-tank. No. 1,002,946; Sept. 12; Sp. p. 1719; Gaz. vol. 170; p. 297.
Vidák, Michael, Chicago, Ill. Floor scrubbing and wiping machine. No. 1,010,097; Nov. 28; Sp. p. 5408; Gaz. vol. 172; p. 969.
Vidal, Juan B., New York, N. Y. Type-writer attachment. No. 1,001,482; Aug. 22; Sp. p. 4876; Gaz. vol. 169; p. 880.
Vidinghoff, Charles A., assignor to Buffalo Scale Company, Buffalo, N. Y. Bearing for weighing-scales. No. 1,012,303; Dec. 19; Sp. p. 4283; Gaz. vol. 173; p. 735.
Vierengel, Matthew, Brooklyn, N. Y. Envelop-machine. No. 1,000,057; Aug. 8; Sp. p. 1732; Gaz. vol. 169; p. 323.
Vierengel, Matthew, Brooklyn, N. Y. Paper-feeding machine. No. 1,000,058; Aug. 8; Sp. p. 1746; Gaz. vol. 169; p. 324.
Vierengel, Matthew, assignor, by mesne assignments, to The Autopress Company, New York, N. Y. Inking apparatus for printing-presses. No. 1,004,606; Oct. 3; Sp. p. 125; Gaz. vol. 171; p. 22.
Vierling, Joseph, Pittsburg, Pa. Washing-machine. No. 994,548; June 6; Sp. p. 929; Gaz. vol. 167; p. 154.
Vieser, John H., Chicago, Ill. Index in books. No. 999,001; July 25; Sp. p. 5276; Gaz. vol. 168; p. 939.
Vieth, Hermann, assignor to Knoll and Company, Ludwigshafen-on-the-Rhine, Germany. Phenolphthalein diisovalerate. No. 998,726; July 25; Sp. p. 4643; Gaz. vol. 168; p. 843.
Vietor, William A., Eureka, Cal. Spool. No. 1,011,532; Dec. 12; Sp. p. 2554; Gaz. vol. 173; p. 432.
Vik, Andrew H., assignor of one-half to R. H. Vik, Poulsbo, Wash. Shifting mechanism. No. 982,399; Jan. 24; Sp. p. 4912; Gaz. vol. 162; p. 850.
Vik, Rasmus H. (See Vik, Andrew H., assignor.)
Vilas, Percival M. (See McKee and Vilas.)
Villeneuve, Archelas, Franklin, N. H. Knitting-machine stop mechanism. No. 1,003,675; Sept. 19; Sp. p. 3239; Gaz. vol. 170; p. 584.
Villeneuve, George, Pittsfield, Mass. Drafting instrument. No. 1,006,704; Oct. 24; Sp. p. 4715; Gaz. vol. 171; p. 840.
Villiger, Viktor, and E. Fussenegger, assignors to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Yellow azo dye. No. 990,173; Apr. 18; Sp. p. 4015; Gaz. vol. 165; p. 692.
Vincent Clay Products Company *et al.* (See Goldner, George E., assignor.)
Vincent, Ernest P., New York, N. Y. Aeronautic device. No. 996,171; June 27; Sp. p. 4510; Gaz. vol. 167; p. 814.
Vincent, Ernest P., New York, N. Y. Flying-machine. No. 1,005,120; Oct. 3; Sp. p. 1169; Gaz. vol. 171; p. 198.
Vincent, Frederic, Matawatchan, Ontario, Canada. Window-pane fastener. No. 1,010,329; Nov. 28; Sp. p. 5874; Gaz. vol. 172; p. 1046.
Vincent, Jesse G. (See Fisher and Vincent.)
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 983,009; Jan. 31; Sp. p. 6222; Gaz. vol. 162; p. 1084.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Power-drive for adding-machines. No. 989,670; Apr. 18; Sp. p. 2957; Gaz. vol. 165; p. 521.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Power-drive for adding-machines. No. 990,317; Apr. 25; Sp. p. 4369; Gaz. vol. 165; p. 774.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding and listing machine. No. 998,727; July 25; Sp. p. 4644; Gaz. vol. 168; p. 843.
Vincent, Jesse G., assignor to Burroughs Adding Machine Company, Detroit, Mich. Keyboard mechanism for adding-machines. No. 1,002,341; Sept. 5; Sp. p. 374; Gaz. vol. 170; p. 53.
Vincent, Leslie H., Grand Rapids, Mich. Sanitary mattress. No. 1,001,909; Aug. 29; Sp. p. 5805; Gaz. vol. 169; p. 1057.
Vincent, William J., assignor to The Rotoplunge Pump Company, Limited, Cardiff, England. Change-speed and reversing gearing. No. 1,007,756; Nov. 7. Sp. p. 234; Gaz. vol. 172; p. 38.
Vincent, William J., Powis, and F. J. Hancox, Penarth, England. Rotary reversible-plunger pump. No. 996,543; June 27; Sp. p. 5370; Gaz. vol. 167; p. 940.
Vincent, William J., Cardiff, and J. V. Harrison, Penarth, near Cardiff, assignors to The Rotoplunge Pump Company, Limited, Cardiff, England. Hydraulic clutch. No. 980,368; Jan. 3; Sp. p. 381; Gaz. vol. 162; p. 68.
Vincent, William W., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Heating device for bedstead-trimmings. No. 1,012,035; Dec. 19; Sp. p. 3692; Gaz. vol. 173; p. 643.
Vindrier, Pierre, Lyon, France. Self-acting mule. No. 984,786; Feb. 21; Sp. p. 3342; Gaz. vol. 163; p. 589.
Vines, James W., Wills Point, Tex. Washing-machine. No. 987,839; Mar. 28; Sp. p. 4395; Gaz. vol. 164; p. 799.
Vineyard, Mantle, Missoula, Mont. Music-leaf turner. No. 993,740; May 30; Sp. p. 6271; Gaz. vol. 166; p. 1132.
Vinton, Frederick W., Weehawken, N. J. Fireman's hood. No. 996,739; July 4; Sp. p. 276; Gaz. vol. 168; p. 48.
Vinton, John H., Boston, assignor to Trimont Manufacturing Company, Roxbury, Mass. Wrench. No. 1,012,036; Dec. 19; Sp. p. 3693; Gaz. vol. 173; p. 643.
Vinton, John H., Jamaica Plain, assignor to Trimont Manufacturing Company, Boston, Mass. Wrench. No. 1,012,037; Dec. 19; Sp. p. 3695; Gaz. vol. 173; p. 643.
Vinton, John H., Jamaica Plain, assignor to Trimont Manufacturing Company, Boston, Mass. Quick-adjustable pipe-cutter. No. 1,012,304; Dec. 19; Sp. p. 4285; Gaz. vol. 173; p. 735.
Vinton, Joseph, assignor of one-half to O. Gamble, Spokane, Wash. Corn-planter. No. 982,649; Jan. 24; Sp. p. 5419; Gaz. vol. 162; p. 935.
Vinzent, Theodore R., and F. C. Bell, Alameda, Cal. Rotary compressor. No. 983,010; Jan. 31; Sp. p. 6233; Gaz. vol. 162; p. 1085.
Violett, William H., Fruita, Colo. Scraper and grader. No. 982,319; Jan. 24; Sp. p. 4748; Gaz. vol. 162; p. 821.
Viratelle, Marcel N., Paris, France. Change-speed gearing. No. 990,824; Apr. 25; Sp. p. 5511; Gaz. vol. 165; p. 949.
Virden Manufacturing Company, The. (See Aspinwall, Robert S., assignor.)
Virdin, Joseph D. (See Perkins, William A., assignor.)
Virdin, Joseph D., Baltimore, assignor of one-half to D. M. Wolf, Mount Washington, Md. Grinding and sharpening machine. No. 999,610; Aug. 1; Sp. p. 814; Gaz. vol. 169; p. 142.
Virgin, Walter S. (See Truesdale and Virgin.)

Virginia Laboratory Company. (See Seward and Kügelgen, assignors.) (Reissue.)
Virginia Patent Sales Corporation. (See Guerrant, George M. and W. R., assignors.)
Virtue, James. (See Chatwin and Virtue.)
Viscol Company. (See Buckley, John, assignor.)
Visseaux, Jacques, Lyon, France. Manufacture of incandescent mantles. No. 995,740; June 20; Sp. p. 3597; Gaz. vol. 167; p. 631.
Vitali, Frank, Healdsburg, Cal. Wheel-tire. No. 1,010,539; Dec. 5; Sp. p. 306; Gaz. vol. 173; p. 48.
Vives, George, Thibodaux, La. Sugar-cutting attachment for sugar-centrifugals. No. 1,012,766; Dec. 26; Sp. p. 5235; Gaz. vol. 173; p. 937.
Vivian, Avando W. H., *et al.* (See Grote, Ludwig, assignor.)
Vivian, John D. (See Ryckman and Vivian.)
Vivion, David R., Columbia, Mo. Planting depth-gage and covering attachment for planters. No. 1,007,256; Oct. 31; Sp. p. 5963; Gaz. vol. 171; p. 1088.
Vize, James R., Evansville, Ind. Flying apparatus. No. 1,012,767; Dec. 26; Sp. p. 5238; Gaz. vol. 173; p. 938.
Vlchek, Frank J., Cleveland, Ohio. Compound tool. No. 998,660; July 25; Sp. p. 4488; Gaz. vol. 168; p. 819.
Vobrouček, Frank, assignor of one-half to J. Korinek, Chicago, Ill. Cuff-button. No. 1,009,704; Nov. 21; Sp. p. 4575; Gaz. vol. 172; p. 789.
Voeck, Arthur H., North Freedom, Wis. Means for treating cream-separator disks. No. 988,606; Apr. 4; Sp. p. 683; Gaz. vol. 165; p. 109.
Voegtle, Richard H., Sharpsburg, Pa. Yieldable gearing. No. 989,312; Apr. 11; Sp. p. 2168; Gaz. vol. 165; p. 369.
Voelker, August, Beuel, near Bonn, Germany. Electric furnace. No. 989,671; Apr. 18; Sp. p. 2963; Gaz. vol. 165; p. 522.
Voetsch, Charles. (See Brunelle and Voetsch.)
Voetsch, George, Jr. (See Brunelle and Voetsch.)
Vogel, Ernest H., assignor of one-half to C. Marx, New York, N. Y. Metal-stamping press. No. 993,916; May 30; Sp. p. 6603; Gaz. vol. 166; p. 1190.
Vogel, Eugene W., assignor to The Railroad Supply Company, Chicago, Ill. Lightning-arrester. No. 991,912; May 9; Sp. p. 2310; Gaz. vol. 166; p. 411.
Vogel, Leopold H., *et al.* (See Gooding and Taft, assignors.)
Vogel, Otto, Berlin, assignor to Fabrik Isolirter Drähte (vormals C. J. Vogel Telegraphendraht-Fabrik) Aktiengesellschaft, Adlershof, Germany. Wire-cable and the like covering machine. No. 1,002,475; Sept. 5; Sp. p. 670; Gaz. vol. 170; p. 97.
Vogel, Victor, Riga, Russia. Calculating-machine. No. 1,012,483; Dec. 19; Sp. p. 4623; Gaz. vol. 173; p. 793.
Vogel, William C., Rockford, Ill. Piano-action. No. 993,478; May 30; Sp. p. 5684; Gaz. vol. 166; p. 1040.
Vogelbach, John B., Brooklyn, N. Y. Float for supply-valves of water-closet tanks. No. 984,117; Feb. 14; Sp. p. 1877; Gaz. vol. 163; p. 322.
Vogeler, Bernhard, assignor to Fried, Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Chain rammer. No. 987,513; Mar. 21; Sp. p. 3692; Gaz. vol. 164; p. 659.
Vogelmann, Joseph A., Brooklyn, N. Y. Self-filling fountain-pen. No. 1,007,619; Oct. 31; Sp. p. 6746; Gaz. vol. 171; p. 1213.
Vogelmann, Joseph A., Brooklyn, N. Y. Needle. No. 1,012,768; Dec. 26; Sp. p. 5239; Gaz. vol. 173; p. 938.
Vogelsang, Henry, Brooklyn, N. Y. Game device. No. 1,010,540; Dec. 5; Sp. p. 307; Gaz. vol. 173; p. 49.
Voglesong, John W., Elyria, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburg, Pa. Making plaster-board. No. 999,474; Aug. 1; Sp. p. 546; Gaz. vol. 169; p. 96.
Vogt, A., *et al.* (See Kendrick, Solomon, assignor.)
Vogt, A. E., *et al.* (See Kendrick, Solomon, assignor.)
Vogt, Adolf, Tulse Hill, county of Surrey, England. Internal-combustion engine. No. 1,012,769; Dec. 26; Sp. p. 5240; Gaz. vol. 173; p. 938.
Vogt, Axel S., Altoona, Pa. Signal-cord hanger. No. 1,009,946; Nov. 28; Sp. p. 5087; Gaz. vol. 172; p. 917.
Vogt, Jacob G., and J. A. Johnson, Topeka, Kans. Fly-trap. No. 990,084; Apr. 18; Sp. p. 3821; Gaz. vol. 165; p. 662.
Vogt, William, New York, N. Y. Cushion-heel. No. 1,005,585; Oct. 10; Sp. p. 2249; Gaz. vol. 171; p. 387.
Vogtländische Maschinen-Fabrik (vormals J. C. & H. Dietrich) Akt.-Ges. (See Egli, Arnold, assignor.)
Voight, August, assignor to The Stanley Works, New Britain, Conn. Hasp. No. 981,825; Jan. 17; Sp. p. 3687; Gaz. vol. 162; p. 622.
Voight, Henry G., New Britain, Conn. Molder's flask. No. 981,723; Jan. 17; Sp. p. 3453; Gaz. vol. 162; p. 585.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Locking device for emergency exit-doors. No. 983,011; Jan. 31; Sp. p. 6235; Gaz. vol. 162; p. 1085.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Sash-pulley construction. No. 985,715; Feb. 28; Sp. p. 5363; Gaz. vol. 163; p. 939.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 986,329; Mar. 7; Sp. p. 1197; Gaz. vol. 164; p. 193.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock-indicator. No. 986,659; Mar. 14; Sp. p. 1924; Gaz. vol. 164; p. 339.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 990,613; Apr. 25; Sp. p. 5042; Gaz. vol. 165; p. 878.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-stop. No. 991,674; May 9; Sp. p. 1844; Gaz. vol. 166; p. 333.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Double-acting floor-hinge. No. 993,002; May 23; Sp. p. 4662; Gaz. vol. 166; p. 850.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Mortise-lock. No. 995,818; June 20; Sp. p. 3778; Gaz. vol. 167; p. 659.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Adjustable cylinder-lock. No. 997,429; July 11; Sp. p. 1732; Gaz. vol. 168; p. 314.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Unit-lock. No. 997,524; July 11; Sp. p. 1918; Gaz. vol. 168; p. 344.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Cylinder-lock construction. No. 1,002,098; Aug. 29; Sp. p. 6182; Gaz. vol. 169; p. 1118.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Strike-plate for spring-latches. No. 1,003,219; Sept. 12; Sp. p. 2276; Gaz. vol. 170; p. 391.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 1,003,552; Sept. 19; Sp. p. 2963; Gaz. vol. 170; p. 540.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Mortise-lock. No. 1,003,956; Sept. 19; Sp. p. 3876; Gaz. vol. 170; p. 680.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Casing construction for pin-cylinder locks. No. 1,003,957; Sept. 19; Sp. p. 3877; Gaz. vol. 170; p. 680.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 1,004,506; Sept. 26; Sp. p. 5084; Gaz. vol. 170; p. 895.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Strike-plate for spring-latches. No. 1,004,716; Oct. 3; Sp. p. 371; Gaz. vol. 171; p. 61.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Communicating-room lock. No. 1,007,826; Nov. 7; Sp. p. 398; Gaz. vol. 172; p. 63.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Overhead sash-pulley. No. 1,010,467; Dec. 5; Sp. p. 141; Gaz. vol. 173; p. 25.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-stop. No. 1,010,541; Dec. 5; Sp. p. 309; Gaz. vol. 173; p. 49.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Adjustable cylinder-lock. No. 1,011,286; Dec. 12; Sp. p. 2007; Gaz. vol. 173; p. 345.
Voight, Henry G., assignor to Russell & Erwin Manufacturing Company, New Britain, Conn. Door-holder for door-closers. No. 1,011,287; Dec. 12; Sp. p. 2008; Gaz. vol. 173; p. 345.
Voight, Henry G., and N. B. Hurd, assignors to Russell & Erwin Manufacturing Company, New Britain, Conn. Lock. No. 1,009,202; Nov. 21; Sp. p. 3487; Gaz. vol. 172; p. 616.
Voight, L. A., *et al.* (See Voigt, Charles L., assignor.)
Voigt, Albert, New York, N. Y. Lock. No. 1,001,100; Aug. 22; Sp. p. 4118; Gaz. vol. 169; p. 755.
Voigt, Albert, New York, N. Y. Mounting for sliding doors. No. 1,007,757; Nov. 7; Sp. p. 236; Gaz. vol. 172; p. 38.
Voigt, Charles L., assignor of one-fourth to J. L. Fritz, one-fourth to L. A. Voight, and one-fourth to H. B. Cornish, Sr., Minneapolis, Minn. Carbureter. No. 1,002,791; Sept. 5; Sp. p. 1349; Gaz. vol. 170; p. 204.
Vold, Lars H., Westville, N. J., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Automatic chuck for boring and turning mills. No. 981,724; Jan. 17; Sp. p. 3456; Gaz. vol. 162; p. 586.
Vold, Lars H., Westville, N. J., assignor to William Sellers & Company, Incorporated, Philadelphia, Pa. Clamping mechanism. No. 991,675; May 9; Sp. p. 1845; Gaz. vol. 166; p. 333.
Volk, Joseph A., Jr., South Norwalk, Conn. Renewable fuse for electric circuits. No. 981,038; Jan. 10; Sp. p. 1982; Gaz. vol. 162; p. 327.
Volk, Joseph A., Jr., South Norwalk, Conn. Self-centering electric-fixture support. No. 981,039; Jan. 10; Sp. p. 1983; Gaz. vol. 162; p. 327.
Volk, Max C., Chicago, Ill. Coal-elevator. No. 983,584; Feb. 7; Sp. p. 719; Gaz. vol. 163; p. 112.

Alphabetical list of patentees—Continued.

Volkmar, Bernhard, assignor, by mesne assignments, to C. Hubert, New York, N. Y. Maximum-hand for indicating devices. No. 989,088; Apr. 11; Sp. p. 1680; Gaz. vol. 165; p. 292.
Vollans, Bert H., Everett, Wash. Log-cradle. No. 999,277; Aug. 1; Sp. p. 159; Gaz. vol. 169; p. 30.
Völler, Karl, Dusseldorf, Germany. Automatic rapid-fire cannon. No. 993,741; May 30; Sp. p. 6275; Gaz. vol. 166; p. 1133.
Völler, Karl, Dusseldorf, Germany. Gun having a recoiling barrel. No. 1,000,216; Aug. 8; Sp. p. 2129; Gaz. vol. 169; p. 379.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren-und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Vehicle-wheel axle. No. 983,186; Jan. 31; Sp. p. 6567; Gaz. vol. 162; p. 1143.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren-und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Gun. No. 989,453; Apr. 11; Sp. p. 2448; Gaz. vol. 165; p. 414.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren-und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Hydraulic brake for guns having recoiling barrels. No. 993,003; May 23; Sp. p. 4664; Gaz. vol. 166; p. 850.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Artillery-ammunition. No. 993,917; May 30; Sp. p. 6607; Gaz. vol. 166; p. 1190.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Field-gun having a recoiling barrel. No. 1,000,647; Aug. 15; Sp. p. 3100; Gaz. vol. 169; p. 562.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Shell-fuse. No. 1,000,862; Aug. 15; Sp. p. 3542; Gaz. vol. 169; p. 637.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Recoil-brake for ordnance. No. 1,004,116; Sept. 26; Sp. p. 4284; Gaz. vol. 170; p. 762.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Breech-piece for guns. No. 1,008,223; Nov. 7; Sp. p. 1244; Gaz. vol. 172; p. 203.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Gun adapted to fire at high elevations. No. 1,010,330; Nov. 28; Sp. p. 5875; Gaz. vol. 172; p. 1046.
Völler, Karl, Dusseldorf, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Hydraulic brake for guns. No. 1,010,707; Dec. 5; Sp. p. 674; Gaz. vol. 173; p. 108.
Vollers, George, Guide Rock, Nebr. Shock-loader. No. 985,645; Feb. 28; Sp. p. 5178; Gaz. vol. 163; p. 915.
Vollman, John, assignor of one-third to P. De Vogel, Racine, Wis. Resilient wheel. No. 1,011,679; Dec. 12; Sp. p. 2898; Gaz. vol. 173; p. 484.
Vollmer, Frank A., St. Louis, Mo. Mail-bag catcher and deliverer. No. 995,391; June 13; Sp. p. 2813; Gaz. vol. 167; p. 478.
Volmer, Frederick P. (See Brupbacher and Volmer.)
Volnagel, George, Bremerton, Wash. Lawn-trimmer. No. 999,135; July 25; Sp. p. 5535; Gaz. vol. 168; p. 984.
Voltz, Frank C., Fullerton, Cal. Underreamer. No. 985,956; Mar. 7; Sp. p. 423; Gaz. vol. 164; p. 68.
Volz, Simon, assignor to The Twentieth Century Machinery Company, Milwaukee, Wis. Receptacle holding and carrying device. No. 995,992; June 20; Sp. p. 4125; Gaz. vol. 167; p. 718.
Von Below, Matthias, Memphis, Tenn. Terrace-mattress. No. 984,324; Feb. 14; Sp. p. 2325; Gaz. vol. 163; p. 394.
Von der Lieth, Henry J., New York, N. Y. Tire-armor. No. 1,005,377; Oct. 10; Sp. p. 1758; Gaz. vol. 171; p. 314.
Von der Linde, Carl, St. Tönis, near Crefeld, Germany. Detinning tin scraps. No. 981,775; Jan. 17; Sp. p. 3560; Gaz. vol. 162; p. 604.
Von der Linde, Carl, Crefeld, Germany. Purifying tin scraps preparatory to detinning the same. No. 996,380; June 27; Sp. p. 5032; Gaz. vol. 167; p. 886.
Von der Oelsnitz, Hans, Pittsburg, Pa. Gas-aeroplane motor-airship. No. 999,068; July 25; Sp. p. 5413; Gaz. vol. 168; p. 964.
Von Duprin Fire Exit Latch Co. (See Dupont, Henry H., assignor.)
Von Heine, Henry G. (See Presser, John P., assignor.)
Von Lengerke and Detmold. (See Spencer, Egbert, assignor.)
Von Pein, Edward J. (See Bockhoff and Von Pein.)
Vondracek, Frank J., Cedar Rapids, Iowa. Lawn-edger. No. 998,055; July 18; Sp. p. 3152; Gaz. vol. 168; p. 573.
Voorhees, Gardner T., Boston, Mass. Multiple-effect gas-compressing apparatus. No. 982,753; Jan. 24; Sp. p. 5650; Gaz. vol. 162; p. 968.
Voorhees, Gardner T., Boston, Mass. Concentric-circular-cell ice-making apparatus. No. 984,052; Feb. 14; Sp. p. 1750; Gaz. vol. 163; p. 301.
Voorhees, Gardner T., Boston, Mass., assignor to W. H. Llewellyn, New York, N. Y. Apparatus for ice-making. No. 983,466; Feb. 7; Sp. p. 447; Gaz. vol. 163; p. 72.
Voorhees, Philip, Logansport, Ind. Gate. No. 994,488; June 6; Sp. p. 784; Gaz. vol. 167; p. 134.
Vorda, Frank. (See Lau, Charles, assignor.)
Vordemfelde, Fred L., Celina, Ohio. Comb-cleaner. No. 986,785; Mar. 14; Sp. p. 2174; Gaz. vol. 164; p. 379.
Vorsanger, Herman, New York, N. Y. Machine for splitting carcasses. No. 986,105; Mar. 7; Sp. p. 738; Gaz. vol. 164; p. 119.
Vosberg, Heddo, Leer, Germany. Apparatus for the preparation of horseshoes. No. 983,522; Feb. 7; Sp. p. 564; Gaz. vol. 163; p. 90.
Vosburgh, Charles C., Chicago, Ill. Corset-fitting device. No. 1,005,488; Oct. 10; Sp. p. 1998; Gaz. vol. 171; p. 352.
Vose, Ambrose S., Brookline, assignor, by mesne assignments, to A. F. Gray and J. M. Hall, trustees, Cambridge, Mass. Edge-trimming machine. No. 987,656; Mar. 21; Sp. p. 3975; Gaz. vol. 164; p. 708.
Voss, Frederick, Chicago, Ill. Metallic stud for fireproof partitions. No. 981,040; Jan. 10; Sp. p. 1984; Gaz. vol. 162; p. 327.
Voss, Ludwig, Trier, Germany. School-desk. No. 996,172; June 27; Sp. p. 4512; Gaz. vol. 167; p. 815.
Voss, William H., Davenport, Iowa. Intermittent propelling device. No. 987,777; Mar. 28; Sp. p. 4266; Gaz. vol. 164; p. 778.
Voss, William H., Davenport, Iowa. Means for operating washing-machine wringers. No. 1,004,607; Oct. 3; Sp. p. 132; Gaz. vol. 171; p. 23.
Voss, William H., Davenport, Iowa. Means for operating washing-machines. No. 1,008,502; Nov. 14; Sp. p. 1980; Gaz. vol. 172; p. 339.
Voss, William R., assignor, by mesne assignments, to Commercial Non-Refillable Bottle Stopper Company, San Francisco, Cal. Non-refillable bottle. No. 997,525; July 11; Sp. p. 1922; Gaz. vol. 168; p. 345.
Vote Berger Company, The. (See Lundgren, Carl E., assignor.)
Votey, Edwin S., Summit, N. J., assignor to The Aeolian Company, New York, N. Y. Combination player-piano and phonograph. No. 994,489; June 6; Sp. p. 786; Gaz. vol. 167; p. 134.
Vötsch, Hermann, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Trigger device for guns. No. 987,514; Mar. 21; Sp. p. 3694; Gaz. vol. 164; p. 659.
Vough Piano Company. (See Vough, William C., assignor.)
Vough, William C., assignor to Vough Piano Company, Waterloo, N. Y. Transposing means for piano-actions. No. 981,826; Jan. 17; Sp. p. 3687; Gaz. vol. 162; p. 623.
Vought, De Witt C., Williams Bridge, N. Y. Flying-machine. No. 1,004,117; Sept. 26; Sp. p. 4290; Gaz. vol. 170; p. 763.
Voye, Louis, McDonald, Pa. Portable cash-box. No. 994,893; June 13; Sp. p. 1774; Gaz. vol. 167; p. 313.
Vraalstad, Edward J., Buffalo, N. Y. Molding apparatus. No. 1,000,863; Aug. 15; Sp. p. 3544; Gaz. vol. 169; p. 637.
Vroom, Robert C. (See Hunt and Vroom.)
Vsetecka, Frank, Waucoma, Iowa. Automobile-horn. No. 1,001,101; Aug. 22; Sp. p. 4119; Gaz. vol. 169; p. 775.
Vucash, P. M., *et al.* (See Kenney, Frank, assignor.)
Vulcan Detinning Company. (See Hamilton, Frank H., assignor.)
Vulcan Furnace Company. (See Palmer, De Witt H., assignor.)
Vulcan Soot Cleaner Company, The. (See Eichelberger and Hibner, assignors.)
Vulcan Soot Cleaner Company of Pittsburg, Pa., The. (See Hibner, De Los E., assignor.)
Vulcan Steam Shovel Company, The. (See Frayer, Charles A., assignor.)
"Vulkan" Joint-Stock Company. (See Köchling, Conrad, assignor.)
W. A. Anderson & Co. (See Anderson, Charles A., assignor.)
W. A. Whitney Manufacturing Company. (See Whitney, William A., assignor.) (Reissue.)
W. D. Allen Manufacturing Company. (See Allen, William D., assignor.)
W. D. Allen Manufacturing Company. (See Gibbs, Henry, assignor.)
W. & E. T. Fitch Co., The. (See Wright, Louis W., assignor.)
W. F. & John Barnes Company. (See Barnes, John S., assignor.)
W. G. Armstrong Whitworth & Company. (See Sodeau, William H., assignor.)
W. H. Bundy Recording Company. (See Bundy, Willard H., assignor.)
W. H. Hibbard M'f'g Co. (See Hibbard, William H., assignor.)
W. H. McElwain Company. (See Trull, Herbert A., assignor.)
W. J. Clark Company, The. (See Clark, William H., assignor.)
W. & L. E. Gurley. (See Gurley, William F., assignor.)
W. & L. E. Gurley. (See Hess, Wendell, Jr., assignor.)
W. P. Taylor Company. (See Gibney, James W., assignor.)
W. S. Ray Manufacturing Co. (See Ray, William R., assignor.)
W. S. Tyler Company, The. (See Hoffman, Edward, assigner.)

Alphabetical list of patentees—Continued.

W. W. Kimball Company. (See Hiscock, Emory C., assignor.)
Wachtel, Charles, Jamaica, N. Y. Pocket cigar-lighter. No. 1,006,152; Oct. 17; Sp. p. 3480; Gaz. vol. 171; p. 617.
Wachtel, Sidney. (See Silbert and Wachtel.)
Wachtelhausen, Henry, assignor to The Parker Clock Company, Meriden, Conn. Alarm-clock. No. 990,465; Apr. 25; Sp. p. 4704; Gaz. vol. 165; p. 827.
Wachter, Carl, Weingarten, Germany. Shears for cutting metal. No. 983,585; Feb. 7; Sp. p. 721; Gaz. vol. 163; p. 112.
Wachter, Charles L., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Cableway excavating system. No. 1,002,545; Sept. 5; Sp. p. 814; Gaz. vol. 170; p. 119.
Wachter, Karl, assignor to Maschinenfabrik Weingarten, Weingarten, Germany. Metal-shearing machine. No. 993,284; May 23; Sp. p. 5242; Gaz. vol. 166; p. 940.
Wack, Arthur D., St. Louis, Mo. Resilient wheel. No. 1,007,993; Nov. 7; Sp. p. 759; Gaz. vol. 172; p. 120.
Wacker, Charles, Byrdton, Va. Fish-cutting machine. No. 1,000,648; Aug. 15; Sp. p. 3102; Gaz. vol. 169; p. 562.
Wacker, Charles H. (See Bauroth, Leonhard, assignor.)
Wacker, Charles H. (See Weiss, George, assignor.)
Wackerhagen, Edward, Fort Lee, N. J. Shuttle. No. 1,001,910; Aug. 29; Sp. p. 5806; Gaz. vol. 169; p. 1057.
Waddell, Alexander, Dunfermline, Scotland. Vehicle. No. 982,320; Jan. 24; Sp. p. 4750; Gaz. vol. 162; p. 821.
Waddell, B. C. (See Richardson, Robert H., assignor.)
Waddell, John. (See Harrison, Noble F., assignor.)
Wade, Charles E., Masonville, and C. J. Lagerwall, New York, N. Y. Automobile-wheel with pneumatic and spring hub. No. 995,502; June 20; Sp. p. 3061; Gaz. vol. 167; p. 546.
Wade, Charles T., U. S. Navy. Gas-engine. No. 1,006,989; Oct. 24; Sp. p. 5355; Gaz. vol. 171; p. 939.
Wade, Edwin T., assignor of one-third to W. E. Brogan, Seminary, Miss. Railway-tie. No. 1,003,553; Sept. 19; Sp. p. 2964; Gaz. vol. 170; p. 541.
Wade, Eliza H., *et al.* (See Wade, William N., assignor.)
Wade, Evan H. (See Loedige, Frederick, assignor.) (Reissue.)
Wade, George W., assignor to Becker & Wade Company, Chicago, Ill. Boiler and superheater. No. 996,302; June 27; Sp. p. 4860; Gaz. vol. 167; p. 857.
Wade, Harry R., Toledo, Ohio, assignor to J. W. Hughes. Safety-razor. No. 1,000,059; Aug. 8; Sp. p. 1753; Gaz. vol. 169; p. 324.
Wade, James T., Brady, Tex. Tie. No. 1,012,942; Dec. 26; Sp. p. 5683; Gaz. vol. 173; p. 998.
Wade, Samuel L., Whistler, Ala. Hand-lever. No. 1,006,028; Oct. 17; Sp. p. 3193; Gaz. vol. 171; p. 573.
Wade, William N., Imperial Beach, assignor of three-eighths to N. S. Abrahamson, three-eighths to E. H. Wade, and one-fourth to J. W. Puterbaugh, San Diego, Cal. Automatically-closing grating. No. 1,006,029; Oct. 17; Sp. p. 3195; Gaz. vol. 171; p. 573.
Wadhams, Darius T. (See Gray and Wadhams.)
Wadleigh, George C., Haverhill, Mass. Cooking-stove. No. 991,676; May 9; Sp. p. 1848; Gaz. vol. 166; p. 334.
Wadsack, Ernest, Hutchinson, Kans. Rail-joint. No. 989,454; Apr. 11; Sp. p. 2450; Gaz. vol. 165; p. 414.
Wadsack, Ernest, Hutchinson, Kans. Switch-tongue. No. 1,006,153; Oct. 17; Sp. p. 3882; Gaz. vol. 171; p. 618.
Wadsack, Ernest, Hutchinson, Kans. Rail-joint. No. 1,007,257; Oct. 31; Sp. p. 5964; Gaz. vol. 171; p. 1088.
Wadsworth, Chester J., Cleveland, Ohio. Display-rack. No. 998,056; July 18; Sp. p. 3153; Gaz. vol. 168; p. 573.
Wadsworth, Dwight W., Bangor, Mich. Spark-plug. No. 988,840; Apr. 4; Sp. p. 1168; Gaz. vol. 165; p. 186.
Wadsworth, Frank L. O., Pittsburg, Pa., assignor to Pressed Prism Plate Glass Company, Morgantown, W. Va. Article of prism glass. No. 982,772; Jan. 24; Sp. p. 5691; Gaz. vol. 162; p. 976.
Wadsworth, Frank L. O., Sewickley, assignor to Window Glass Machine Company, Pittsburg, Pa. Drawing hollow glass articles. No. 985,866; Mar. 7; Sp. p. 224; Gaz. vol. 164; p. 37.
Wadsworth, Frank L. O., Sewickley, Pa., assignor to Miller Non-Corrosive Metal Company. Method of and apparatus for treating metals. No. 988,915; Apr. 4; Sp. p. 1303; Gaz. vol. 165; p. 210.
Wadsworth, Frank M., assignor to H. D. Wood, Jr., and T. J. Buerger, Minneapolis, Minn. Necktie-support. No. 1,004,830; Oct. 3; Sp. p. 609; Gaz. vol. 171; p. 100.
Wadsworth, George L., Brooklyn, N. Y. Necktie-holder. No. 995,741; June 20; Sp. p. 3598; Gaz. vol. 167; p. 631.
Wadsworth, John W., Leetsdale, Pa. Airship. No. 989,455; Apr. 11; Sp. p. 2451; Gaz. vol. 165; p. 414.
Wadsworth, William J., Pittsburgh, Pa. Pan and plate lifter. No. 1,009,604; Nov. 21; Sp. p. 4394; Gaz. vol. 172; p. 757.
Waechter, Ferdinand F., Philadelphia, Pa., assignor to The J. M. Dodge Company, Naugatuck, Conn. Conveying apparatus. No. 1,010,989; Dec. 5; Sp. p. 1296; Gaz. vol. 173; p. 206.
Wafer, William, Chicago, Ill. Wash-out plug or valve. No. 1,008,093; Nov. 7; Sp. p. 956; Gaz. vol. 172; p. 154.
Wagandt, Charles L., assignor to National Enameling and Stamping Company, Baltimore, Md. Bail-ear for tapered buckets. No. 997,938; July 11; Sp. p. 2873; Gaz. vol. 168; p. 490.
Wagemaker, Daniel. (See Curtis, Andrew J., assignor.)
Wagg, James B., *et al.* (See Wagg, Solomon R., assignor.)
Wagg, Solomon R., assignor of one-third to J. B. Wagg and one-third to W. L. Wagg, Appleton, Wis. Driving mechanism for beating-engines. No. 983,187; Jan. 31; Sp. p. 6568; Gaz. vol. 162; p. 1143.
Wagg, William L., *et al.* (See Wagg, Solomon R., assignor.)
Waggoner, Herva I. (See Sayles, Henry W., assignor.)
Waggoner, Thomas T., Ward, S. D. Reversing-gear and speed-changer for steam-engines. No. 989,456; Apr. 11; Sp. p. 2456; Gaz. vol. 165; p. 415.
Wagley, S. Clyde. (See Adams, Theodore C., assignor.)
Wagner, Adam, Cedar Falls, Iowa. Sled-runner. No. 988,679; Apr. 4; Sp. p. 833; Gaz. vol. 165; p. 134.
Wagner, Adam, Cedar Falls, Iowa. Wagon-brake. No. 988,680; Apr. 4; Sp. p. 834; Gaz. vol. 165; p. 134.
Wagner, Argus D., Manilla, Ind. End-gate fastener. No. 990,931; May 2; Sp. p. 222; Gaz. vol. 166; p. 39.
Wagner, Charles, New York, N. Y., assignor to Sterling Bronze Company. Electric-light switch. No. 985,234; Feb. 28; Sp. p. 4292; Gaz. vol. 163; p. 775.
Wagner, Edward A., Fort Wayne, Ind., assignor to General Electric Company. Regulating device. No. 1,010,990; Dec. 5; Sp. p. 1298; Gaz. vol. 173; p. 206.
Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)
Wagner Electric Manufacturing Company. (See Sparrow, Simon, assignor.)
Wagner, Frank. (See Moeller, Kieweg, and Wagner.)
Wagner, Franz X., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 984,621; Feb. 21; Sp. p. 2983; Gaz. vol. 163; p. 529.
Wagner, George E. (See Tyreman, Lee, assignor.)
Wagner, Gustav, Reutlingen, Germany. Driving mechanism. No. 1,003,220; Sept. 12; Sp. p. 2277; Gaz. vol. 170; p. 392.
Wagner, Gustav, Reutlingen, Germany. Variable-speed gearing. No. 1,003,221; Sept. 12; Sp. p. 2279; Gaz. vol. 170; p. 392.
Wagner, Henry J., Dellwood, N. Y. Combined cornice and gutter. No. 1,002,611; Sept. 5; Sp. p. 962; Gaz. vol. 170; p. 143.
Wagner, Herman, *et al.* (See Haws, William H., assignor.)
Wagner, Hermann, Waterloo, Wis. Compass-needle. No. 996,689; July 4; Sp. p. 182; Gaz. vol. 168; p. 32.
Wagner, John L., Chicago, Ill. Combination circuit-controller. No. 984,325; Feb. 14; Sp. p. 2326; Gaz. vol. 163; p. 394.
Wagner, John L., Syracuse, N. Y. Insulating-hanger for trolley-wires. No. 987,515; Mar. 21; Sp. p. 3696; Gaz. vol. 164; p. 660.
Wagner, Joseph B., Yonkers, N. Y. Barrel-heading machine. No. 983,329; Feb. 7; Sp. p. 153; Gaz. vol. 163; p. 27.
Wagner Manufacturing Co., The. (See Bingham, Robert O., assignor.)
Wagner, Orlando S. (See Burgess, James C., assignor.)
Wagner, Reinhold, Berlin, Germany. Conveyer for incandescent materials. No. 983,586; Feb. 7; Sp. p. 724; Gaz. vol. 163; p. 113.
Wagner, Royal W., Spirit Lake, Iowa. Vehicle. No. 982,451; Jan. 24; Sp. p. 5045; Gaz. vol. 162; p. 870.
Wagner, Rudolf, Karlstad, Sweden, assignor to J. Orten-Böving, London, England. Pulp-strainer. No. 987,657; Mar. 21; Sp. p. 3977; Gaz. vol. 164; p. 709.
Wagner, Rudolf, Stettin, and C. von Radinger, Wellingdorf, near Kiel, Germany. Airship, balloon, aeroplane, and the like. No. 1,007,405; Oct. 31; Sp. p. 6269; Gaz. vol. 171; p. 1141.
Wagner, William L., Ankeny, Iowa. Stanchion. No. 1,005,489; Oct. 10; Sp. p. 1999; Gaz. vol. 171; p. 352.
Wagniere, August, assignor to H. J. Pauly, Los Angeles, Cal. Loose-leaf binder. No. 986,609; Mar. 14; Sp. p. 812; Gaz. vol. 164; p. 321.
Wagnitz, John A., assignor of one-half to L. A. Frankenberg, Columbus, Ohio. Folding box. No. 993,919; May 30; Sp. p. 6608; Gaz. vol. 166; p. 1191.
Wagor, Jay B. (See Rush, James M., assignor.)
Wagy, James I. (See Morton, Marshall J., assignor.)
Wahl, Alfred, Freiburg, Breisgau, Germany. Apparatus for the delivery of measured quantities of liquid. No. 997,939; July 11; Sp. p. 2874; Gaz. vol. 168; p. 491.
Wahl, Arnold C. G., Louisiana, Mo. Rule-holder. No. 989,213; Apr. 11; Sp. p. 1936; Gaz. vol. 165; p. 335.
Wahl, Henry R., Elvins, Mo. Apparatus for disposal of waste rock from concentrating-mills. No. 984,326; Feb. 14; Sp. p. 2331; Gaz. vol. 163; p. 395.
Wahl, Henry R., Elvins, Mo. Apparatus for disposal of waste rock from concentrating-mills and the like. No. 1,003,385; Sept. 12; Sp. p. 2612; Gaz. vol. 170; p. 449.
Wahl, Robert, Chicago, Ill. Manufacture of fermented malt beverages. No. 1,006,154; Oct. 17; Sp. p. 3483; Gaz. vol. 171; p. 618.
Wahl, Robert, Chicago, Ill. Manufacture of malt beverages. (Reissue.) No. 13,315; Nov. 14; Sp. p. 3137; Gaz. vol. 172; p. 523.

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Wahlgren, Carl, Robinson, Colo. Load-binder. No. 1,008,503; Nov. 14; Sp. p. 1983; Gaz. vol. 172; p. 339.
Wahlstrom, Charles S., Wallstreet, assignor of one-fourth to G. T. Johnson and one-fourth to E. Stenson, Denver, Colo. Dust-collector for rock-drills. No. 1,003,075; Sept. 12; Sp. p. 1958; Gaz. vol. 170; p. 339.
Wahlstrom, Verner J., New York, assignor of one-half to B. T. Burchardi, Brooklyn, N. Y. Hand-tool. No. 994,804; June 13; Sp. p. 1543; Gaz. vol. 167; p. 283.
Wahlstrom, Verner J., assignor of one-half to B. T. Burchardi, Brooklyn, N. Y. Chuck. No. 996,953; July 4; Sp. p. 739; Gaz. vol. 168; p. 121.
Wahlstrom, Verner J., assignor of one-half to B. T. Burchardi, Brooklyn, N. Y. Chuck. No. 996,954; July 4; Sp. p. 740; Gaz. vol. 168; p. 121.
Wahlstrom, Verner J., assignor of one-half to B. T. Burchardi, Brooklyn, N. Y. Chuck. No. 996,955; July 4; Sp p. 742; Gaz. vol. 168; p. 121.
Waibel, Henry, Cleveland, Ohio. Cleansing and pitching machine. No. 1,003,076; Sept. 12; Sp. p. 1961; Gaz. vol. 170; p. 339.
Wainwright, Charles, Erie, Pa. Valve. No. 1,010,206; Nov. 28; Sp. p. 5622; Gaz. vol. 172; p. 1006.
Wainwright, Frank R., Jersey City, N. J. Type-writing machine. No. 988,053; Mar. 28; Sp. p. 4918; Gaz. vol. 164; p. 873.
Wainwright, John, Benezette, Pa. Surveying instrument. No. 997,222; July 4; Sp. p. 1314; Gaz. vol. 168; p. 214.
Wainwright, John G., London, England. Sash-fastening. No. 982,699; Jan. 24; Sp. p. 5528; Gaz. vol. 162; p. 952.
Wait, Henry H., Chicago, Ill. Rotor for dynamo-electric machines. No. 988,916; Apr. 4; Sp. p. 1305; Gaz. vol. 165; p. 210.
Wait, Henry H., Chicago, Ill. Magnetic shield for electric machines. No. 996,381; June 27; Sp. p. 5033; Gaz. vol. 167; p. 886.
Wait, Henry H., Chicago, Ill. Steam-equalizer. No. 996,740; July 4; Sp. p. 279; Gaz. vol. 168; p. 49.
Wait, Lorenzo M. (See Wasson and Wait.)
Wait, Walter S., Newton, Mass. Smoke-consumer for locomotives. No. 1,012,484; Dec. 19; Sp. p. 4625; Gaz. vol. 173; p. 793.
Wait, Wesley, Newburgh, N. Y. Aerial vessel. No. 996,741; July 4; Sp. p. 282; Gaz. vol. 168; p. 49.
Wait, Wesley, Newburgh, N. Y. Supporting-brace. No. 1,000,465; Aug. 15; Sp. p. 2673; Gaz. vol. 169; p. 496.
Wait, Wesley, Newburgh, N. Y. Aerial vessel. No. 996,815; July 4; Sp. p. 441; Gaz. vol. 168; p. 73.
Waite, Fred, Otley, England. Means for driving the inking mechanism of rotary lithographic-printing machines. No. 996,438; June 27; Sp. p. 5171; Gaz. vol. 167; p. 905.
Waite, Fred, Otley, England. Rotary lithographic offset printing-machine. No. 1,012,485; Dec. 19; Sp. p. 4627; Gaz. vol. 173; p. 793.
Waite Grass Carpet Co. (See Waite, Ossian T., assignor.)
Waite, Harry F., Harrison, N. Y. Vacuum discharge-gap for producing electrical oscillations. No. 981,503; Jan. 10; Sp. p. 3005; Gaz. vol. 162; p. 490.
Waite, Harry F., New York, N. Y. X-ray tube. No. 982,552; Jan. 24; Sp. p. 5244; Gaz. vol. 162; p. 904.
Waite, Ossian T., assignor to Waite Grass Carpet Co., Oshkosh, Wis. Grass-twine machine. No. 1,000,763; Aug. 15; Sp. p. 3331; Gaz. vol. 169; p. 602.
Waitt, George L., Buffalo, N. Y. Chaplet for molding. No. 1,010,542; Dec. 5; Sp. p. 310; Gaz. vol. 173; p. 49.
Waitz, Charles A., Rouseville, Pa. Cup-packer. No 997,721; July 11; Sp. p. 2354; Gaz. vol. 168; p. 414.
Waitz, Charles A., Rouseville, Pa. Working barrel for pumps. No. 1,010,098; Nov. 28; Sp. p. 5409; Gaz. vol. 172; p. 970.
Wakefield, Charles C., London, England. Automatic regulator for acetylene-gas generators. No. 983,255; Jan. 31; Sp. p. 6734; Gaz. vol. 162; p. 1167.
Wakefield, Charles C., London, England. Condenser-feed lubricator. No. 986,330; Mar. 7; Sp. p. 1198; Gaz. vol. 164; p. 193.
Wakefield, Charles C., London, England. Pump. No. 993,920; May 30; Sp. p. 6610; Gaz. vol. 166; p. 1191.
Wakefield, Charles C., London, England. Signal-lantern. No. 999,921; Aug. 8; Sp. p. 1461; Gaz. vol. 169; p. 277.
Wakefield, Frederick W., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Lighting-fixture. No. 1,010,099; Nov. 28; Sp. p. 5411; Gaz. vol. 172; p. 970.
Wakefield, Nathan S., Los Angeles, Cal. Diaphragm for sound-reproducers. No. 980,713; Jan. 3; Sp. p. 1162; Gaz. vol. 162; p. 185.
Wakefield, Seymour, Burlington, Vt. Cutter-head. No. 983,330; Feb. 7; Sp. p. 161; Gaz. vol. 163; p. 28.
Wakefield, Thomas, Taylor, Ariz. Railway-spike. No. 995,503; June 20; Sp. p. 3063; Gaz. vol. 167; p. 546.
Wakefield, Thomas M., Bandana, Ky. Bucket. No. 991,397; May 2; Sp. p. 1218; Gaz. vol. 166; p. 203.
Wakefield, William O. (See Upp and Wakefield.)
Wakefield, William R., Mount Union, Pa. Grinding-machine. No. 988,841; Apr. 4; Sp. p. 1168; Gaz. vol. 165; p. 186.
Wakeland, Edwin C., Oakland, Cal. Key-duplicating machine. No. 983,787; Feb. 7; Sp. p. 1130; Gaz. vol. 163; p. 181.
Walberg, Bernard E., Worcester, Mass. Folding stand. No. 1,006,155; Oct. 17; Sp. p. 3486; Gaz. vol. 171; p. 618.
Walch, Herman, assignor of one-half to P. J. Dougherty, Mason City, Iowa. Air-brake coupling. No. 1,012,770; Dec. 26; Sp. p. 5242; Gaz. vol. 173; p. 939.
Walcher, Alfred, St. Louis, Mo., and H. M. Plaisted, Granite City, Ill. Grab-bucket. No. 1,010,331; Nov. 28; Sp. p. 5877; Gaz. vol. 172; p. 1046.
Walcott, Albert H., Canton, Mass. Preserve jar and bottle. No. 992,928; May 23; Sp. p. 4499; Gaz. vol. 166; p. 825.
Walcott, Erastus L., Quincy, Ill. Stop-cock box. No. 996,956; July 4; Sp. p. 744; Gaz. vol. 168; p. 122.
Wald, David, O. C. Britsch, and M. Taigman, New York, N. Y. Motor-control apparatus. No. 984,327; Feb. 14; Sp. p. 2334; Gaz. vol. 163; p. 395.
Wald, David, O. C. Britsch, and M. Taigman, New York, N. Y. Motor-control apparatus. No. 1,000,864; Aug. 15; Sp. p. 3548; Gaz. vol. 169; p. 638.
Wald, David, O. C. Britsch, and M. Taigman, New York, N. Y. Sewing-machine attachment. No. 1,003,830; Sept. 19; Sp. p. 3565; Gaz. vol. 170; p. 634.
Wald, Edward. (See La Belle, Peter J., assignor.)
Waldburger, John A., assignor to Forter-Miller Engineering Company, McKeesport, Pa. Gas-producer. No. 992,523; May 16; Sp. p. 3639; Gaz. vol. 166; p. 653.
Walden, Jesse C., Mystic, Iowa. Electric switch. No. 997,106; July 4; Sp. p. 1077; Gaz. vol. 168; p. 174.
Waldheim, John, Newark, N. J., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,007,994; Nov. 7; Sp. p. 760; Gaz. vol. 172; p. 120.
Waldheim, John, Newark, N. J., assignor to Union Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,012,943; Dec. 26; Sp. p. 5684; Gaz. vol. 173; p. 998.
Waldran, Crook M., *et al.* (See Pill, William, assignor.)
Waldron, John C., Brooklyn, N. Y. Gyroscopic steering apparatus. No. 983,467; Feb. 7; Sp. p. 449; Gaz. vol. 163; p. 72.
Waldschmidt, Henry, Benson, Ill. Lantern-holder. No. 991,914; May 9; Sp. p. 2314; Gaz. vol. 166; p. 412.
Waldvogel, Paul E., Milwaukee, Wis. Confection-cone case. No. 986,610; Mar. 14; Sp. p. 1815; Gaz. vol. 164; p. 321.
Waldvogel, Paul E., Milwaukee, Wis. Draft appliance. No. 1,011,288; Dec. 12; Sp. p. 2009; Gaz. vol. 173; p. 346.
Waldvogel, Paul E., Milwaukee, Wis. Draft appliance. No. 1,011,289; Dec. 12; Sp. p. 2011; Gaz. vol. 173; p. 346.
Wales, Charles, assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 990,174; Apr. 18; Sp. p. 4015; Gaz. vol. 165; p. 692.
Wales, Charles M., New York, N. Y. Making hollow car-axles. No. 983,849; Feb. 7; Sp. p. 1269; Gaz. vol. 163; p. 203.
Wales, Charles M., New York, N. Y. Hollow axle. No. 1,010,004; Nov. 28; Sp. p. 5218; Gaz. vol. 172; p. 936.
Wales, Claude A., Stratford, Conn., assignor to Boston Pressed Metal Company, Worcester, Mass. Savings-bank. No. 994,621; June 6; Sp. p. 1074; Gaz. vol. 167; p. 179.
Wales, Nathaniel B., Braintree, Mass., assignor to G. B. Collier, Kinderhook, N. Y. Apparatus for generating motive fluid. No. 989,214; Apr. 11; Sp. p. 1937; Gaz. vol. 165; p. 335.
Wales, Samuel S., Munhall, assignor to Carnegie Steel Company, Pittsburg, Pa. Manufacture of steel. No. 987,840; Mar. 28; Sp. p. 4396; Gaz. vol. 164; p. 800.
Wales, Samuel S., Munhall, assignor to Carnegie Steel Company, Pittsburg, Pa. Making armor-plates. No. 996,544; June 27; Sp. p. 5371; Gaz. vol. 167; p. 940.
Wales, William H., Jr., Norfolk, Va. Resilient metallic vehicle-wheel. No. 1,008,224; Nov. 7; Sp. p. 1246; Gaz. vol. 172; p. 203.
Walgreen, Charles R., and A. E. Detwiler, Chicago, Ill. Display-stand. No. 989,313; Apr. 11; Sp. p. 2169; Gaz. vol. 165; p. 369.
Walk Auto Tire Company, The. (See Bottomly, Edward S., assignor.)
Walk, George W., Pittsburg, Pa. Machine for cleaning and greasing pans. No. 997,347; July 11; Sp. p. 1588; Gaz. vol. 168; p. 287.
Walk, Isaac C., Chambersburg, Pa. Ruler. No. 986,611; Mar. 14; Sp. p. 1816; Gaz. vol. 164; p. 322.
Walker, A. O., *et al.* (See Silva, Claude L., assignor.)
Walker, Alexander D., Seattle, Wash. Window-screen. No. 1,000,352; Aug. 8; Sp. p. 2410; Gaz. vol. 169; p. 424.
Walker, Benjamin D., and F. Cook, West Point, Ga. Tool for removing or attaching electrical fixtures. No. 996,690; July 4; Sp. p. 184; Gaz. vol. 168; p. 32.
Walker, Charles, Knoxville, Tenn. Drainage system. No. 995,930; June 20; Sp. p. 4013; Gaz. vol. 167; p. 697.
Walker, Charles, Knoxville, Tenn. Drainage system. No. 1,003,307; Sept. 12; Sp. p. 2460; Gaz. vol. 170; p. 424.
Walker, Charles H. (See Anthony, Marcus O., assignor.)
Walker, Clarence L. (See Walker, Edwin and C. L.)
Walker, Clio W., Miami, Ariz. Steel tie. No. 985,081; Feb. 21; Sp. p. 3893; Gaz. vol. 163; p. 688.

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Walker, Edwin and C. L., Erie, Pa. Ice-cream dipper. No. 1,012,944; Dec. 26; Sp. p. 5694; Gaz. vol. 173; p. 998.
Walker, Eli M., Meriden, Conn., assignor to The Charles Parker Company. Coffee-mill. No. 999,684; Aug. 1; Sp. p. 959; Gaz. vol. 169; p. 168.
Walker, Emmitt S., Roscoe, Tex. Postal cash-sales receptacle. No. 991,567; May 9; Sp. p. 1592; Gaz. vol. 166; p. 294.
Walker, Frank H., Bromley, and C. E. Sohn, Harringay, England. Manufacture of vehicles for paints and the like. No. 999,611; Aug. 1; Sp. p. 816; Gaz. vol. 169; p. 143.
Walker, Fred I., Babylon, N. Y. Depth-gage. No. 1,009,605; Nov. 21; Sp. p. 4395; Gaz. vol. 172; p. 757.
Walker, Gaines M., St. Louis, Mo. Knockdown shipping-crate. No. 988,414; Apr. 4; Sp. p. 269; Gaz. vol. 165; p. 44.
Walker, Gaines M., St. Louis, Mo. Staple forming and clenching machine. No. 1,007,258; Oct. 31; Sp. p. 5966; Gaz. vol. 171; p. 1089.
Walker, George, Newton, Mass. Typographical computing-machine. No. 996,173; June 27; Sp. p. 4513; Gaz. vol. 167; p. 815.
Walker, George and S., San Jose, Cal. Self-operated hatch-cover. No. 987,197; Mar. 21; Sp. p. 3045; Gaz. vol. 164; p. 551.
Walker, George and S., San Francisco, Cal. Self-operating elevator-hatch sliding cover. No. 997,481; July 11; Sp. p. 1823; Gaz. vol. 168; p. 330.
Walker, George E., Masten, Pa. Harrow. No. 983,523; Feb. 7; Sp. p. 565; Gaz. vol. 163; p. 90.
Walker, Harry, Maxwell, N. Mex. Automobile spindle device. No. 989,457; Apr. 11; Sp. p. 2459; Gaz. vol. 165; p. 416.
Walker, Henry C., Newton, Mass. Hat-marker. No. 1,006,320; Oct. 17; Sp. p. 3868; Gaz. vol. 171; p. 676.
Walker, Henry C., Newton, assignor to Walker-Longfellow Company, Boston, Mass. Box. No. 993,330; May 23; Sp. p. 5343; Gaz. vol. 166; p. 957.
Walker, Henry W., assignor to J. W. Lee, Jr., Syracuse, N. Y. Air-pressure indicator. No. 988,917; Apr. 4; Sp. p. 1308; Gaz. vol. 165; p. 210.
Walker, Irving E., Providence, R. I. Cuff-protector. No. 999,136; July 25; Sp. p. 5536; Gaz. vol. 168; p. 984.
Walker, James A., Los Angeles, Cal. Switch-operating mechanism. No. 987,778; Mar. 28; Sp. p. 4268; Gaz. vol. 164; p. 778.
Walker, James A., Los Angeles, Cal. Railway-crossing. No. 987,779; Mar. 28; Sp. p. 4269; Gaz. vol. 164; p. 778.
Walker, James A., Monrovia, Cal. Drill-chuck. No. 989,215; Apr. 11; Sp. p. 1941; Gaz. vol. 165; p. 336.
Walker, James B., and P. J. Hampton, Rush Springs, Okla. Holder for drinking-cups. No. 1,003,831; Sept. 19; Sp. p. 3565; Gaz. vol. 170; p. 634.
Walker, James J., London, England. Self-playing musical instrument. No. 993,479; May 30; Sp. p. 5685; Gaz. vol. 166; p. 1040.
Walker, James J., London, England. Music-record for use in automatic musical instruments. No. 1,012,178; Dec. 19; Sp. p. 4013; Gaz. vol. 173; p. 691.
Walker, James L. (See Ellis and Walker.)
Walker, James L., Eagle Point, Oreg. Flying-machine. No. 995,819; June 20; Sp. p. 3779; Gaz. vol. 167; p. 659.
Walker, James M., Quill Lake, Sascatchewan, Canada. Combined fire and burgler alarm. No. 1,006,608; Oct. 24; Sp. p. 4540; Gaz. vol. 171; p. 809.
Walker, Jesse W. (See Loe, Syver, assignor.)
Walker, John, Jr., London, England. File, temporary binder, loose-leaf book, and the like. No. 1,000,649; Aug. 15; Sp. p. 3104; Gaz. vol. 169; p. 563.
Walker, John, Jr., London, England. Cover for loose-leaf books, files, and temporary binders. No. 1,001,483; Aug. 22; Sp. p. 4878; Gaz. vol. 169; p. 880.
Walker, John, Jr., London, England. Lock. No. 1,003,554; Sept. 19; Sp. p. 2966; Gaz. vol. 170; p. 541.
Walker, John B., Ensley, Ala. Collapsible core. No. 997,027; July 4; Sp. p. 931; Gaz. vol. 168; p. 148.
Walker, John E. (See Croasman, Robert W., assignor.)
Walker, John G., New York, N. Y., assignor to J. G. Walker, Sewaren, N. J., and A. Kern, New York, N. Y. Apparatus for treating garbage. No. 990,688; Apr. 25; Sp. p. 5228; Gaz. vol. 165; p. 902.
Walker, John L., Newark, N. J. Grinding or honing device. No. 1,012,771; Dec. 26; Sp. p. 5243; Gaz. vol. 173; p. 939.
Walker, John L., Newark, N. J. Grinding or honing device. No. 1,012,772; Dec. 26; Sp. p. 5247; Gaz. vol. 173; p. 940.
Walker, John W., Bradford, England. Engaging and disengaging gear for attaching and liberating boats and for other purposes. No. 1,010,708; Dec. 5; Sp. p. 675; Gaz. vol. 173; p. 109.
Walker, Lewellyn B. (See Macom and Walker.)
Walker-Longfellow Company. (See Walker, Henry C., assignor.)
Walker, Mae E. (See Hunt and Walker.)
Walker Manufacturing Company. (See Rasmussen, Laurits T., assignor.)
Walker, Miles, Manchester, England, assignor to Westinghouse Electric & Manufacturing Company. Electromagnetic apparatus. No. 992,300; May 16; Sp. p. 3160; Gaz. vol. 166; p. 575.
Walker, Norman D., Steeton, near Keighley, England. Apparatus for stripping waste off single-headed tubes, bobbins, or pirns. No. 993,422; May 30; Sp. 5561; Gaz. vol. 166; p. 1021.
Walker, Osceola A. A. O., Mechanicsburg, Ohio. Automatic throttle governor-valve. No. 993,921; May 30; Sp. p. 6612; Gaz. vol. 166; p. 1192.
Walker, Robert, Plymouth, England. Driving and braking mechanism for cycles and the like. No. 1,000,353; Aug. 8; Sp. p. 2411; Gaz. vol. 169; p. 424.
Walker, Robert, Plymouth, England. Braking mechanism for cycles and the like. No. 1,000,354; Aug. 8; Sp. p. 2414; Gaz. vol. 169; p. 424.
Walker, Robert J., and N. C. Sprague; said Sprague assignor to W. S. Pease, Fort Dodge, Iowa. Cooker. No. 990,689; Apr. 25; Sp. p. 5231; Gaz. vol. 165; p. 903.
Walker, Robert L. (See Walker, Thomas H., assignor.)
Walker, Samuel M., Los Angeles, Cal. Boiler. No. 993,480; May 30; Sp. p. 5689; Gaz. vol. 166; p. 1041.
Walker, Samuel M., Los Angeles, Cal. Water feed, heater, and purifier for steam-boilers. No. 998,816; July 25; Sp. p. 4841; Gaz. vol. 168; p. 874.
Walker, Sidney. (See Walker, George and S.)
Walker, Thomas, Paris, Ky. Dump-car. No. 998,432; July 18; Sp. p. 3992; Gaz. vol. 168; p. 708.
Walker, Thomas F. and T. S., Birmingham, England. Electrical ship-log apparatus. No. 1,008,225; Nov. 7; Sp. p. 1248; Gaz. vol. 172; p. 204.
Walker, Thomas H., Kansas City, Mo. Steam or hot-water radiator. No. 981,231; Jan. 10; Sp. p. 2443; Gaz. vol. 162; p. 396.
Walker, Thomas H., Kansas City, Mo. Automatic valve. No. 982,400; Jan. 24; Sp. p. 4913; Gaz. vol. 162; p. 851.
Walker, Thomas H., assignor of one-half to R. L. Walker, Lumber City, Ga. Stalk-cutter. No. 992,699; May 16; Sp. p. 3996; Gaz. vol. 166; p. 713.
Walker, Thomas S. (See Walker, Thomas F. and T. S.)
Walker, Tupper G. (See Adkins, Joseph H., assignor.)
Walker, Walter F., assignor to National Equipment Company, Springfield, Mass. Machine for decorating confections. No. 990,175; Apr. 18; Sp. p. 4020; Gaz. vol. 165; p. 692.
Walker, William. (See Mitchell and Walker.)
Walker, William A. (See Moore, Joseph C., assignor.) (Reissue.)
Walker, William A., Racine, Wis. Combined rail-joint and spike-protector. No. 985,867; Mar. 7; Sp. p. 228; Gaz. vol. 164; p. 37.
Walker, William F., Chicago, Ill. Seal-lock. No. 1,004,831; Oct. 3; Sp. p. 609; Gaz. vol. 171; p. 100.
Walker, William H., Chicago, Ill. Memorandum device for telephones. No. 990,318; Apr. 25; Sp. p. 4374; Gaz. vol. 165; p. 774.
Walker, William H., Newton, Mass. Cellulose compound. No. 1,009,116; Nov. 21; Sp. p. 3312; Gaz. vol. 172; p. 586.
Walker, William O. (See Mitchell and Walker.)
Walker, William R., New York, N. Y. Manufacture of steel. No. 980,369; Jan. 3; Sp. p. 382; Gaz. vol. 162; p. 68.
Walker, William R., and J. H. Gray, New York, N. Y. Manufacture of steel. No. 1,000,217; Aug. 8; Sp. p. 2131; Gaz. vol. 169; p. 379.
Walker, Willis F., Seisholtzville, Pa. Railway-tie and fastener. No. 982,452; Jan. 24; Sp. p. 5047; Gaz. vol. 162; p. 871.
Walker, Willis F., Seisholtzville, Pa. Railway-tie. No. 985,381; Feb. 28; Sp. p. 4590; Gaz. vol. 163; p. 823.
Walkers, Parker & Co. Limited. (See Eckford, William, assignor.)
Walkley, James B., Salt Lake City, Utah. Bank-check form. No. 998,817; July 25; Sp. p. 4842; Gaz. vol. 168; p. 874.
Walkup, Rankin C., Crawfordsville, Ind. Portable water-fountain. No. 1,011,290; Dec. 12; Sp. p. 2012; Gaz. vol. 173; p. 346.
Wall, Arthur W., Birmingham, England. Spring-fork for cycles and other vehicles. No. 984,787; Feb. 21; Sp. p. 3344; Gaz. vol. 163; p. 590.
Wall, Edgar G., St. Louis, Mo. Elevator safety device. No. 980,460; Jan. 3; Sp. p. 607; Gaz. vol. 162; p. 100.
Wall, Enos A., Salt Lake City, Utah. Ore-concentrating table. No. 988,748; Apr. 4; Sp. p. 985; Gaz. vol. 165; p. 157.
Wall, Enos A., Salt Lake City, Utah. Ore-crusher. No. 988,749; Apr. 4; Sp. p. 988; Gaz. vol. 165; p. 157.
Wall, Enos A., Salt Lake City, Utah. Ore-feeder. No. 991,677; May 9; Sp. p. 1850; Gaz. vol. 166; p. 334.
Wall, Enos A., Salt Lake City, Utah. Ore and coal jig. No. 993,481; May 30; Sp. p. 5691; Gaz. vol. 166; p. 1041.
Wall, Enos A., Salt Lake City, Utah. Resilient wheel. No. 1,001,714; Aug. 29; Sp. p. 5371; Gaz. vol. 169; p. 991.
Wall, Enos A., Salt Lake City, Utah. Spring-wheel. No. 1,001,715; Aug. 29; Sp. p. 5372; Gaz. vol. 169; p. 991.
Wall, Enos A., Salt Lake City, Utah. Ore-screen. No. 1,005,907; Oct. 17; Sp. p. 2930; Gaz. vol. 171; p. 531.

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Wall, Enos A., Salt Lake City, Utah. Wave-actuated air-compressor. No. 1,008,683; Nov. 14; Sp. p. 2394; Gaz. vol. 172; p. 404.
Wall, Enos A., Salt Lake City, Utah. Differential reciprocating bumping mechanism. No. 1,011,680; Dec. 12; Sp. p. 2900; Gaz. vol. 173; p. 485.
Wall, John D., Chicago, Ill. Fork. No. 992,394; May 16; Sp. p. 3378; Gaz. vol. 166; p. 608.
Wall, John H., Bristol, R. I. Bobbin feeding and counting apparatus. No. 1,010,332; Nov. 28; Sp. p. 5881; Gaz. vol. 172; p. 1047.
Wall, William F., *et al.* (See Williams, Dick B., assignor.)
Wall, Worthworks, Bradford, England. Coat hanger or suspender. No. 1,010,709; Dec. 5; Sp. p. 677; Gaz. vol. 173; p. 109.
Wallace, Alexander, assignor to H. R. Bowers, Herminie, Pa. Automatic safety-catch for elevators. No. 1,002,947; Sept. 12; Sp. p. 1721; Gaz. vol. 170; p. 298.
Wallace, Andrew, Jr., New York, N. Y. Hat-guard. No. 998,559; July 18; Sp. p. 4236; Gaz. vol. 168; p. 751.
Wallace, Charles A., C. T. Porter, and W. A. Dillon, San Francisco, Cal.; said Wallace assignor to said Porter and Dillon. Separable brush. No. 996,957; July 4; Sp. p. 745; Gaz. vol. 168; p. 122.
Wallace, Charles F. (See Meeker and Wallace.)
Wallace, Charles G., Hastings, Nebr. Coal-chute. No. 1,001,713; Aug. 29; Sp. p. 5370; Gaz. vol. 169; p. 990.
Wallace, Edwin C., East Auburn, Cal., assignor of one-half to W. G. McKendrick, Toronto, Canada. Non-refillable bottle. No. 981,827; Jan. 17; Sp. p. 3689; Gaz. vol. 162; p. 623.
Wallace, Edwin L., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Filamentous cereal biscuit. No. 993,922; May 30; Sp. p. 6615; Gaz. vol. 166; p. 1192.
Wallace, Emma L., Halsey, Oreg. Milk-cooler. No. 994,433; June 6; Sp. p. 690; Gaz. vol. 167; p. 118.
Wallace, F. T. D., Jr. (See Compton, Joseph B., assignor.)
Wallace, Francis C., Drummond, Md., and C. F. Forsyth, assignors to Eureka Bottle Cap Remover Company, Washington, D. C. Combined bottle-cap and remover. No. 986,524; Mar. 14; Sp. p. 1628; Gaz. vol. 164; p. 290.
Wallace, Fred, assignor of one-half to J. Scheible, Eden, N. Y. Combined curtain and shade support. No. 992,088; May 9; Sp. p. 2641; Gaz. vol. 166; p. 470.
Wallace, George C. N., Anderson, Ind. Steam-turbine. No. 984,788; Feb. 21; Sp. p. 3345; Gaz. vol. 163; p. 590.
Wallace, Harry B., assignor to Samuel Cupples Wooden Ware Company, St. Louis, Mo. Roll-paper holder and cutter. No. 1,011,681; Dec. 12; Sp. p. 2901; Gaz. vol. 173; p. 485.
Wallace, Harry P., Minneapolis, Minn. Roof-jacket for ventilating-pipes. No. 1,010,100; Nov. 28; Sp. p. 5414; Gaz. vol. 172; p. 970.
Wallace, Harvey. (See Wallace, James L. and H.)
Wallace, Herbert A., New York, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling system. No. 1,011,291; Dec. 12; Sp. p. 2015; Gaz. vol. 173; p. 347.
Wallace, Hugh, and F. A. Swanson, Chicago, Ill. Rechargeable safety-fuse. No. 985,082; Feb. 21; Sp. p. 3894; Gaz. vol. 163; p. 688.
Wallace, James A., Bowling Green, Ky. Tail-holder. No. 1,011,292; Dec. 12; Sp. p. 2017; Gaz. vol. 173; p. 347.
Wallace, James L. and H., assignors to Perfection Vacuum Cleaner Company, Chicago, Ill. Cleaning apparatus. No. 996,691; July 4; Sp. p. 185; Gaz. vol. 168; p. 32.
Wallace, John A. (See Martin and Wallace.)
Wallace, John A., and J. W. Martin, Darlington, assignors to Acme Novelty Company, Pittsburgh, Pa. Toy sand-grabber. No. 1,006,705; Oct. 24; Sp. p. 4719; Gaz. vol. 171; p. 840.
Wallace, John A., and J. W. Martin, Darlington, assignors to Acme Novelty Company, Pittsburgh, Pa. Toy. No. 1,009,870; Nov. 28; Sp. p. 4938; Gaz. vol. 172; p. 892.
Wallace, John H., San Francisco, Cal. Air-brake apparatus. No. 999,351; Aug. 1; Sp. p. 308; Gaz. vol. 169; p. 55.
Wallace, John M., Newbold-upon-Avon, England, assignor to General Electric Company. Oil-switch. No. 1,001,716; Aug. 29; Sp. p. 5373; Gaz. vol. 169; p. 991.
Wallace, John S. and W., Hopewell township, Beaver county, Pa. Horse-collar. No. 986,331; Mar. 7; Sp. p. 1199; Gaz. vol. 164; p. 194.
Wallace, Joseph A. (See Bowman and Wallace.)
Wallace, Nathaniel P., Ypsilanti, Mich. Child's closet-seat. No. 982,553; Jan. 24; Sp. p. 5246; Gaz. vol. 162; p. 904.
Wallace, Washington. (See Wallace, John S. and W.)
Wallace, William. (See Owen, Westall, and Wallace.)
Wallace, William A., assignor of one-half to W. O. Brawley, Altus, Okla. Insect-trap. No. 987,841; Mar. 28; Sp. p. 4397; Gaz. vol. 164; p. 800.
Wallace, William A., and A. Crume, Brush, Colo. Liquid-fuel burner. No. 981,504; Jan. 10; Sp. p. 3007; Gaz. vol. 162; p. 490.
Wallace, William M. (See Masson and Wallace.) (Reissue.)
Walldren, Edward E., Chicago, Ill. Flush-valve ball. No. 1,003,555; Sept. 19; Sp. p. 2967; Gaz. vol. 170; p. 541.
Walle, Alfred, Ludington, Mich. Foot-power hammer. No. 995,742; June 20; Sp. p. 3599; Gaz. vol. 167; p. 631.
Wallem, Axel B. (See Gamble and Wallem.)
Wallenberg, Gustaf O. (See Ohlsson, Olof, assignor.)
Waller, Albert, Philadelphia, Pa. Printing apparatus. No. 985,479; Feb. 28; Sp. p. 4841; Gaz. vol. 163; p. 859.
Waller, Anthony E., Pawtucket, R. I. Catch. No. 993,482; May 30; Sp. p. 5693; Gaz. vol. 166; p. 1042.
Waller, Carl R., Trenton, N. J., assignor to De Laval Steam Turbine Company, New York, N. Y. Elastic-fluid turbine. No. 987,842; Mar. 28; Sp. p. 4398; Gaz. vol. 164; p. 800.
Waller, Charles W., Chicago, Ill. Flying-machine. No. 999,278; Aug. 1; Sp. p. 160; Gaz. vol. 169; p. 31.
Waller, Thomas S., assignor to Diamond Power Specialty Company, Detroit, Mich. Blower for boilers. No. 995,931; June 20; Sp. p. 4015; Gaz. vol. 167; p. 698.
Waller, Thomas S., and E. B. Barnhill, assignors to Diamond Power Specialty Company, Detroit, Mich. Blower for boilers. No. 981,146; Jan. 10; Sp. p. 2218; Gaz. vol. 162; p. 365.
Waller, Thomas S., and J. V. Carr, assignors to R. Herman, Detroit, Mich. Boiler-tube cleaner. No. 984,622; Feb. 21; Sp. p. 2985; Gaz. vol. 163; p. 530.
Waller, William W., Washington, D. C., assignor of one-half to H. E. Hanes, Herndon, Va. Air-cooling machine. No. 997,872; July 11; Sp. p. 2720; Gaz. vol. 168; p. 467.
Wallerstein, Abraham, St. Louis, Mo. Steam-generator. No. 994,805; June 13; Sp. p. 1544; Gaz. vol. 167; p. 283.
Wallerstein, Leo, New York, N. Y. Beer and preparing same. No. 995,820; June 20; Sp. p. 3782; Gaz. vol. 167; p. 660.
Wallerstein, Leo, New York, N. Y. Treating fermented beverages. No. 995,821; June 20; Sp. p. 3785; Gaz. vol. 167; p. 660.
Wallerstein, Leo, New York, N. Y. Preparation containing lupulin and making same. No. 995,822; June 20; Sp. p. 3786; Gaz. vol. 167; p. 660.
Wallerstein, Leo, New York, N. Y. Preparation for use in brewing. No. 995,823; June 20; Sp. p. 3787; Gaz. vol. 167; p. 660.
Wallerstein, Leo, New York, N. Y. Treating beer or ale. No. 995,824; June 20; Sp. p. 3788; Gaz. vol. 167; p. 660.
Wallerstein, Leo, New York, N. Y. Treating beer or ale. No. 995,825; June 20; Sp. p. 3791; Gaz. vol. 167; p. 660.
Wallerstein, Leo, New York, N. Y. Treating beer or ale. No. 995,826; June 20; Sp. p. 3793; Gaz. vol. 167; p. 660.
Wallerstein, Leo, New York, N. Y. Treating beer or ale. No. 997,873; July 11; Sp. p. 2723; Gaz. vol. 168; p. 467.
Wallick, John G., Indianapolis, Ind. Garbage-pulverizer for sewers. No. 996,958; July 4; Sp. p. 747; Gaz. vol. 168; p. 122.
Wallin, George W., Wood River, Nebr. Post-mold. No. 986,957; Mar. 14; Sp. p. 2536; Gaz. vol. 164; p. 438.
Wallin, George W., McCool Junction, Nebr. Mail-catcher. No. 1,002,885; Sept. 12; Sp. p. 1587; Gaz. vol. 170; p. 275.
Wallin, Gustaf E., Kansas City, Mo. Matrix-ear file. No. 982,554; Jan. 24; Sp. p. 5247; Gaz. vol. 162; p. 905.
Walling, Alice A. (See Pope, Alice A.)
Walling, Thomas M., Tinton Falls, N. J., assignor to Monmouth Aerial Vehicle and Transportation Company. Aeroplane. No. 1,004,944; Oct. 3; Sp. p. 853; Gaz. vol. 171; p. 139.
Wallingsford, William R., Crossett, Ark. Automatic gate-latch. No. 1,006,609; Oct. 24; Sp. p. 4541; Gaz. vol. 171; p. 809.
Wallis, Charles, and A. E. Pearce, Bay City, Mich. Packing and reshipping box. No. 1,003,016; Sept. 12; Sp. p. 1847; Gaz. vol. 170; p. 320.
Wallis, Henry A., Martin, Tenn. Wheat-scouring machine. No. 981,828; Jan. 17; Sp. p. 3690; Gaz. vol. 162; p. 624.
Wallis, Henry E., Terre Haute, Ind. Furnace. No. 985,480; Feb. 28; Sp. p. 4845; Gaz. vol. 163; p. 860.
Wallis, Henry E., Chicago, Ill. Hair-shield. No. 999,922; Aug. 8; Sp. p. 1462; Gaz. vol. 169; p. 277.
Wallis, John W., Waterbury, Conn. Spiral-tube-making machine. No. 998,214; July 18; Sp. p. 3489; Gaz. vol. 168; p. 629.
Wallis, Joseph T., Sydney, New South Wales, Australia. Horse-holder. No. 986,879; Mar. 14; Sp. p. 2391; Gaz. vol. 164; p. 414.
Wallmann, Johann G., Oakland, Cal. Electric heater and sterilizer. No. 987,658; Mar. 21; Sp. p. 3979; Gaz. vol. 164; p. 709.
Wallmann, Johann G., Oakland, Cal. Electric water-heating apparatus. No. 1,004,608; Oct. 3; Sp. p. 135; Gaz. vol. 171; p. 23.
Wallmann, Johann G., Oakland, Cal. Combination policeman's truncheon and extension pistol-barrel. No. 1,009,358; Nov. 21; Sp. p. 3870; Gaz. vol. 172; p. 673.
Wallmark, Axel A. (See Boyer, Martin, assignor.)
Wallquist, Ida A., Bucklin, Mo. Draining attachment for dish-pans. No. 982,908; Jan. 31; Sp. p. 6001; Gaz. vol. 162; p. 1051.
Walls, J. W., *et al.* (See Koch, Leonard, assignor.)
Walls, James W., Trinidad, Colo. Switch-frog. No. 987,027; Mar. 14; Sp. p. 2659; Gaz. vol. 164; p. 460.
Walls, Owen & Stambach Company. (See Moore, Charles M., assignor.)

Alphabetical list of patentees—Continued.

Walp, Clara C. (See Walp, James, assignor.)
Walp, James, assignor to C. C. Walp, Allentown, Pa. Grate. No. 980,370; Jan. 3; Sp. p. 383; Gaz. vol. 162; p. 68.
Walpole Rubber Company. (See Gleason, Frederick J., assignor.)
Walsh-Baker Corporation. (See Walsh, Thomas P., assignor.)
Walsh, Charles J. (See Hughes and Walsh.)
Walsh, Harriet M. (See Lankler, Margaret J., assignor.)
Walsh, Harriet M., Sandy Hook, Conn. Fortune-telling die. No. 985,868; Mar. 7; Sp. p. 229; Gaz. vol. 164; p. 38.
Walsh, Harry C. H., Chicago, Ill., assignor of one-half to A. A. Kinne, Minneapolis, Minn. Metal-creasing machine. No. 1,002,342; Sept. 5; Sp. p. 379; Gaz. vol. 170; p. 53.
Walsh, John, Dushore, Pa. Cutting-nippers. No. 990,932; May 2; Sp. p. 223; Gaz. vol. 166; p. 39.
Walsh, John J., Yonkers, N. Y. Cable or conductor hanger. No. 992,301; May 16; Sp. p. 3164; Gaz. vol. 166; p. 575.
Walsh, John P., Boston, Mass. Sand-blasting nozzle. No. 990,409; Apr. 25; Sp. p. 4585; Gaz. vol. 165; p. 808.
Walsh, Margaret Z., *et al.* (See Burnap, James M., assignor.)
Walsh, Patrick J. (See Williams, Walter, assignor.)
Walsh, Thomas B., Chicago, Ill. Hod. No. 991,118; May 2; Sp. p. 618; Gaz. vol. 166; p. 105.
Walsh, Thomas P., Boston, Mass., assignor to Walsh-Baker Corporation, Portland, Me. Machine for straightening tube-frames for Axminster looms. No. 1,006,811; Oct. 24; Sp. p. 4966; Gaz. vol. 171; p. 880.
Walsh, Thomas P., Boston, Mass., assignor to Walsh-Baker Corporation, Portland, Me. Machine for straightening tube-frames for Axminster looms. (Reissue.) No. 13,335; Dec. 5; Sp. p. 1649; Gaz. vol. 173; p. 263.
Walston, John T., Springfield, Mo. Railway-crossing. No. 985,646; Feb. 28; Sp. p. 5179; Gaz. vol. 163; p. 916.
Walston, Walter O., Asheville, N. C. Clothes-line. No. 1,000,218; Aug. 8; Sp. p. 2133; Gaz. vol. 169; p. 379.
Walstrom, Axel M., Minneapolis, Minn. Means for facilitating the starting of hydrocarbon-engines. No. 981,337; Jan. 10; Sp. p. 2665; Gaz. vol. 162; p. 433.
Walter A. Wood Mowing and Reaping Machine Company. (See Beckett, James A., assignor.)
Walter, Carl C. (See Walter, George A. and C. C.)
Walter, Edward H., Philadelphia, Pa. Ball-trap. No. 1,007,161; Oct. 31; Sp. p. 5759; Gaz. vol. 171; p. 1054.
Walter, Felix, Highfield, Md. Apparatus for heating buildings by hot water. No. 1,005,378; Oct. 10; Sp. p. 1759; Gaz. vol. 171; p. 314.
Walter, George A. and C. C., Fredericktown, Ohio. Drinking-fount. No. 1,010,543; Dec. 5; Sp. p. 311; Gaz. vol. 173; p. 49.
Walter, Harrison B., assignor to National Fibre Box Company, Danville, Ill. Box. No. 984,404; Feb. 14; Sp. p. 2481; Gaz. vol. 163; p. 420.
Walter, Harrison B., assignor to National Fibre Box Company, Danville, Ill. Tool for sealing and locking end flaps of boxes together. No. 993,923; May 30; Sp. p. 6615; Gaz. vol. 166; p. 1192.
Walter, Henry L., and C. E. Goodrich, Washington, D. C. Fat-extraction apparatus. No. 1,010,991; Dec. 5; Sp. p. 1300; Gaz. vol. 173; p. 207.
Walter, Jacob, assignor of one-half to J. A. Walter, Natrona, Pa. Make-and-break mechanism for electrical circuits. No. 1,002,886; Sept. 12; Sp. p. 1589; Gaz. vol. 170; p. 275.
Walter, Jacob, assignor of one-half to J. A. Walter, Natrona, Pa. Make-and-break mechanism for electrical circuits. No. 1,002,887; Sept. 12; Sp. p. 1592; Gaz. vol. 170; p. 276.
Walter, John A. (See Walter, Jacob, assignor.)
Walter, John F., Lake Placid, N. Y., assignor of one-half to R. O. Walter, Newton, Mass. Holder for stationery. No. 985,235; Feb. 28; Sp. p. 4293; Gaz. vol. 163; p. 776.
Walter, John H., assignor of one-half to G. Regelmann, Brooklyn, N. Y. Vending-machine. No. 985,382; Feb. 28; Sp. p. 4592; Gaz. vol. 163; p. 823.
Walter, John H., assignor of one-half to G. Regelmann, Brooklyn, N. Y. Vending-machine. No. 1,004,832; Oct. 3; Sp. p. 611; Gaz. vol. 171; p. 100.
Walter, John J., Los Angeles, Cal. Article-holder. No. 1,005,490; Oct. 10; Sp. p. 2000; Gaz. vol. 171; p. 352.
Walter, Joseph. (See Silver and Walter.)
Walter, Joseph C., Lecompton, Kans. Manure-loader. No. 987,198; Mar. 21; Sp. p. 3047; Gaz. vol. 164; p. 552.
Walter, Lewis C. (See Gilmore, Charles B., assignor.)
Walter, Michael, Tylersburg, Pa. Folding coop. No. 1,006,991; Oct. 24; Sp. p. 5358; Gaz. vol. 171; p. 940.
Walter, Nathaniel F., Onley, Va. Potato-digger. No. 998,433; July 18; Sp. p. 3994; Gaz. vol. 168; p. 708.
Walter, Richard O. (See Walter, John F., assignor.)
Walter, Willard, Sturgis, Mich. Curtain-fixture. No. 1,009,359; Nov. 21; Sp. p. 3872; Gaz. vol. 172; p. 674.
Walter, William H., assignor to O. W. Hinckley and G. J. Schmitt, Chicago, Ill. Apparatus for cooling and dispensing liquids. No. 991,568; May 9; Sp. p. 1594; Gaz. vol. 166; p. 294.
Walters, Alva M. (See Walters, Clarence E. and A. M.)
Walters, Charles W., assignor to Keeler Brass Company, Grand Rapids, Mich. Handle for locks and latches. No. 980,714; Jan. 3; Sp. p. 1163; Gaz. vol. 162; p. 185.
Walters, Clarence E. and A. M., Red Oak, Iowa. Headlight-controller for vehicles. No. 987,843; Mar. 28; Sp. p. 4400; Gaz. vol. 164; p. 800.
Walters, Edmund R., Reidsville, N. C. Folding ladder. No. 983,188; Jan. 31; Sp. p. 6570; Gaz. vol. 162; p. 1143.
Walters, Frank E., Toledo, Ohio. Apparatus for the distribution of concrete or the like. No. 1,009,117; Nov. 21; Sp. p. 3313; Gaz. vol. 172; p. 586.
Walters, George F., Findlay, Ohio. Baling-press. No. 982,650; Jan. 24; Sp. p. 5422; Gaz. vol. 162; p. 936.
Walters, George W., Sharon, Pa. Hydraulic ram. No. 992,524; May 16; Sp. p. 3641; Gaz. vol. 166; p. 654.
Walters, Hiram, and N. Bumpus, Curtice, Ohio. Excavating-machine. No. 983,959; Feb. 14; Sp. p. 1532; Gaz. vol. 163; p. 269.
Walters, John T., East Radford, Va. Churn. No. 993,130; May 23; Sp. p. 4940; Gaz. vol. 166; p. 894.
Walters, Joseph, Detroit, Mich. Removable sleigh-runner for vehicles. No. 1,005,379; Oct. 10; Sp. p. 1761; Gaz. vol. 171; p. 314.
Walters, Joseph C., Jamestown, N. Y. Non-refillable bottle. No. 980,715; Jan. 3; Sp. p. 1164; Gaz. vol. 162; p. 185.
Walthall, Anderson M., *et al.* (See Anson, Warren J., assignor.)
Waltham Watch Company. (See Hull, Edgar L., assignor.)
Walther, Carl, Zella, Germany. Automatic firearm with stationary barrel. No. 991,398; May 2; Sp. p. 1219; Gaz. vol. 166; p. 203.
Walther, Emil, Werdau, assignor to Firm of F. A. Sattler, Neukirchen, Germany. Can-opener. No. 1,008,932; Nov. 14; Sp. p. 2898; Gaz. vol. 172; p. 486.
Walther, Gustav. (See Salzer and Walther.)
Walther, Hans, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Dyeing half-wool goods. No. 990,023; Apr. 18; Sp. p. 3708; Gaz. vol. 165; p. 643.
Walther, Henry, Milwaukee, Wis. Adjustable reamer. No. 1,002,612; Sept. 5; Sp. p. 965; Gaz. vol. 170; p. 143.
Walther, Max A., Buffalo, N. Y. Railway-switch. No. 1,009,871; Nov. 28; Sp. p. 4940; Gaz. vol. 172; p. 892.
Walther, Rudolph J., Davenport, Iowa. Mechanical motor for gas-machines. No. 982,321; Jan. 24; Sp. p. 4752; Gaz. vol. 162; p. 822.
Walton, Anna E., Clare, Iowa. Coffee or tea pot strainer. No. 987,516; Mar. 21; Sp. p. 3697; Gaz. vol. 164; p. 660.
Walton, Charles A., Broken Bow, Nebr. Shipping-crate. No. 986,249; Mar. 7; Sp. p. 1032; Gaz. vol. 164; p. 166.
Walton, Charles S., Los Angeles, Cal. Safety device for immersion-heaters. No. 994,351; June 6; Sp. p. 513; Gaz. vol. 167; p. 89.
Walton, Edmund G. (See Thiem, Edward A., assignor.)
Walton, Harry P., Mineral Point, Mo. Weed-burning apparatus. No. 993,131; May 23; Sp. p. 4942; Gaz. vol. 166; p. 895.
Walton, John, Erie, Pa. Locomotive. No. 993,924; May 30; Sp. p. 6616; Gaz. vol. 166; p. 1192.
Walton, John P., Pilot Mound, Manitoba, Canada. Garment-supporter. No. 980,461; Jan. 3; Sp. p. 610; Gaz. vol. 162; p. 101.
Walton, Joseph, Denver, Colo. Excavating-machine. No. 998,818; July 25; Sp. p. 4844; Gaz. vol. 168; p. 875.
Walton, Lemuel, Plains, Pa. Safety device for inclined railways. No. 1,009,118; Nov. 21; Sp. p. 3315; Gaz. vol. 172; p. 586.
Walton, Richard N., Los Angeles, Cal. Railway-joint. No. 988,156; Mar. 28; Sp. p. 5114; Gaz. vol. 164; p. 907.
Walton, Samuel T., Brooklyn, assignor to The Unit Steel Cabinet Company, New York, N. Y. Follower structure for record-receptacles. No. 990,319; Apr. 25; Sp. p. 4375; Gaz. vol. 165; p. 775.
Walton, William M. (See Carleton, Ernest W., assignor.)
Waltz, Winfield S., Medina, Ohio. Automatically-controlled headlight for cars. No. 986,106; Mar. 7; Sp. p. 742; Gaz. vol. 164; p. 119.
Walworth Run Foundry Company, The. (See Hoehn and Gerdum, assignors.)
Walz, Edgar A., New York, N. Y. Head-protector. No. 1,004,507; Sept. 26; Sp. p. 5085; Gaz. vol. 170; p. 895.
Walz, William, Toronto, Ontario, Canada. Electric-circuit breaker. No. 989,458; Apr. 11; Sp. p. 2460; Gaz. vol. 165; p. 416.
Wanamaker, Charles B., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Snare-strainer. No. 1,011,533; Dec. 12; Sp. p. 2555; Gaz. vol. 173; p. 432.
Wanamaker, John. (See Rehfuss, Martin O., assignor.)
Wanamaker, William, Carrollton, Ohio. Post-hole digger. No. 1,011,682; Dec. 12; Sp. p. 2902; Gaz. vol. 173; p. 485.
Wanderer Werke vorm. Winklhofer & Jaenicke A. G. (See Buschmann, Theodor E., assignor.)
Wanderer-Werke vormals Winklhofer und Jaenicke Aktien-Gesellschaft. (See Stuhlmacher, Richard, assignor.)
Wankel, Mary J. (See Wankel, William B., assignor.)
Wankel, William B., New York, assignor to M. J. Wankel, Brooklyn, N. Y. File-handle. No. 983,788; Feb. 7; Sp. p. 1133; Gaz. vol. 163; p. 181.

Alphabetical list of patentees—Continued.

Wankmüller, Romeo, assignor to Luft-Verkehrs-Gesellschaft, m. b. H., Charlottenburg, Germany. Airship. No. 1,000,865; Aug. 15; Sp. p. 3552; Gaz. vol. 169; p. 639.
Wankmüller, Romeo, Berlin, assignor to Luft-Verkehrs-Gesellschaft m. b. H., Charlottenburg, near Berlin, Germany. Airship. No. 1,005,097; Oct. 3; Sp. p. 1121; Gaz. vol. 171; p. 189.
Wanko, John J., Westport, Md. Glass-molding apparatus. No. 994,806; June 13; Sp. p. 1547; Gaz. vol. 167; p. 283.
Wanlin, Alphonse, Seattle, Wash. Automatic-recoil awl-haft. No. 1,008,226; Nov. 7; Sp. p. 1252; Gaz. vol. 172; p. 204.
Wanner, Albert, Jr., *et al.* (See Wilkinson, John A., assignor.)
Wanner, Albert, Jr., Hoboken, N. J. Opera-chair. No. 981,232; Jan. 10; Sp. p. 2445; Gaz. vol. 162; p. 396.
Wanner, Albert, Jr., Hoboken, N. J. Opera-chair. No. 981,338; Jan. 10; Sp. p. 2667; Gaz. vol. 162; p. 433.
Wanner, Edwin P., *et al.* (See Wilkinson, John A., assignor.)
Wannschaff, Georg, and J. Savelsberg, Papenburg, Germany. Separating zinc or zinc oxid. No. 999,420; Aug. 1; Sp. p. 450; Gaz. vol. 169; p. 79.
Wantling, Isaac, Peoria, Ill. Sifting mechanism. No. 1,002,343; Sept. 5; Sp. p. 384; Gaz. vol. 170; p. 54.
Wantz, Julius B., assignor to Victor Electric Company, Chicago, Ill. Electrotherapeutic device. No. 1,003,676; Sept. 19; Sp. p. 3241; Gaz. vol. 170; p. 584.
Wanzer, Charles M., Urbana, Ohio. Aeroplane-propeller. No. 988,681; Apr. 4; Sp. p. 835; Gaz. vol. 165; p. 135.
Wanzer, Charles M., Urbana, Ohio. Aeroplane. No. 1,005,908; Oct. 17; Sp. p. 2932; Gaz. vol. 171; p. 531.
Wappler Electric Manufacturing Company. (See Wappler, Reinhold H., assignor.)
Wappler, Reinhold H., assignor to Wappler Electric Manufacturing Company, New York, N. Y. Electric machine for therapeutic purposes. No. 992,302; May 16; Sp. p. 3166; Gaz. vol. 166; p. 575.
Wappler, Reinhold H., assignor to American Cystoscope Makers, New York, N. Y. Endoscope. No. 998,310; July 18; Sp. p. 3750; Gaz. vol. 168; p. 666.
Wappler, Reinhold H., assignor to American Cystoscope Makers Inc., New York, N. Y. Endoscope. No. 1,001,786; Aug. 29; Sp. p. 5526; Gaz. vol. 169; p. 1014.
Wappler, Reinhold H., assignor to American Cystoscope Makers Inc., New York, N. Y. Endoscope. No. 1,001,787; Aug. 29; Sp. p. 5528; Gaz. vol. 169; p. 1015.
Wappler, Reinhold H., assignor, by mesne assignments, to Wappler Electric Manufacturing Company, New York, N. Y. Interrupter. No. 1,003,222; Sept. 12; Sp. p. 2280; Gaz. vol. 170; p. 392.
Ward, Ada, assignor of one-half to M. F. Porter, Enid, Okla. Tailoring device. No. 1,002,613; Sept. 5; Sp. p. 973; Gaz. vol. 170; p. 144.
Ward, Albert H. (See Williams, Everett A., assignor.)
Ward, Artemas. (See Spaulding, Elijah F., assignor.)
Ward, Bertrand G., Jersey City, N. J. Game device. No. 997,348; July 11; Sp. p. 1589; Gaz. vol. 168; p. 288.
Ward, Bertrand G., Jersey City, N. J. Game device. No. 997,349; July 11; Sp. p. 1591; Gaz. vol. 168; p. 288.
Ward, Bertrand G., Jersey City, N. J. Game device. No. 999,069; July 25; Sp. p. 5419; Gaz. vol. 168; p. 964.
Ward, Charles and C. E., Charleston, W. Va. Outboard condenser. No. 1,000,310; Aug. 8; Sp. p. 2310; Gaz. vol. 169; p. 410.
Ward, Charles E. (See Ward, Charles and C. E.)
Ward, Charles W., Hancock, Mich. Valve. No. 1,002,948; Sept. 12; Sp. p. 1722; Gaz. vol. 170; p. 298.
Ward, Columbus L., assignor to I. M. Lantz, McArthur, Ohio. Trace. No. 1,011,534; Dec. 12; Sp. p. 2557; Gaz. vol. 173; p. 433.
Ward-Dickey Steel Co. (See Ward, Henry J., assignor.)
Ward, Elmer E., assignor of two-tenths to M. W. Owen, Colorado Springs, Colo. Mop-wringer. No. 1,006,706; Oct. 24; Sp. p. 4720; Gaz. vol. 171; p. 841.
Ward Equipment Company. (See Ward, John E., assignor.)
Ward, Ernest N., Baxter Springs, Kans., assignor of one-half to J. F. Ripley, Joplin, Mo. Starting device. No. 1,004,508; Sept. 26; Sp. p. 5086; Gaz. vol. 170; p. 896.
Ward, Harry W. (See Sweet, Alonzo L., assignor.)
Ward, Henry J., Peoria, Ill., assignor to Ward-Dickey Steel Co., Indiana Harbor, Ind. Car-seal. No. 987,083; Mar. 14; Sp. p. 2761; Gaz. vol. 164; p. 478.
Ward, Irving, assignor of one-half to D. S. Seaman, Providence, R. I. Slug-catcher. No. 992,303; May 16; Sp. p. 3169; Gaz. vol. 166; p. 576.
Ward, Jefferson W., Uvalde, Tex. Press for attaching comb foundations to honey-frames for beehives. No. 985,236; Feb. 28; Sp. p. 4295; Gaz. vol. 163; p. 776.
Ward, John E., assignor to Ward Equipment Company, New York, N. Y. Pipe-coupling. No. 997,874; July 11; Sp. p. 2724; Gaz. vol. 168; p. 467.
Ward, Joseph E., Longbeach, Cal. Making roadways. No. 991,043; May 2; Sp. p. 448; Gaz. vol. 166; p. 77.
Ward, Joseph M., Solvay, N. Y. Mold for forming cast-steel ingots. No. 993,004; May 23; Sp. p. 4665; Gaz. vol. 166; p. 851.
Ward, Josiah, Oak Park, Ill. Tool-holder. No. 993,569; May 30; Sp. p. 5882; Gaz. vol. 166; p. 1072.
Ward-Mackey Co. (See Holmes, John A., assignor.)
Ward, Mattie R., Leesville, La. Curtain-pole. No. 999,923; Aug. 8; Sp. p. 1463; Gaz. vol. 169; p. 277.
Ward, R. L. (See Williams, Charles G., assignor.)
Ward, Thomas F., New York, N. Y. Water-closet fixture. No. 1,006,812; Oct. 24; Sp. p. 4971; Gaz. vol. 171; p. 880.
Ward, Thomas G., *et al.* (See McNaughton, Andrew, assignor.)
Ward, William E., New York, N. Y. Calk attachment for horseshoes. No. 988,525; Apr. 4; Sp. p. 503; Gaz. vol. 165; p. 80.
Ward, William E., and F. Steines, Sheffield, Iowa. Post-hole-digging machine. No. 1,006,156; Oct. 17; Sp. p. 3488; Gaz. vol. 171; p. 619.
Ward, William L., Port Chester, N. Y. Producing nut-blanks from stock-bars. No. 998,215; July 18; Sp. p. 3492; Gaz. vol. 168; p. 629.
Ward, William L., Port Chester, N. Y. Construction of metal-swaging dies. No. 998,216; July 18; Sp. p. 3498; Gaz. vol. 168; p. 630.
Warden, Henry, and W. N. Underwood, Fredericksburg, Va. Gate-operating mechanism. No. 998,311; July 18; Sp. p. 3751; Gaz. vol. 168; p. 666.
Wardlaw, Frank A., Brooklyn, N. Y. Blow-off valve. No. 993,742; May 30; Sp. p. 6278; Gaz. vol. 166; p. 1133.
Wardwell, Simon W. (See Parks and Wardwell.)
Wardwell, Simon W., Providence, R. I. Tension for braiding-carriers. No. 981,958; Jan. 17; Sp. p. 4011; Gaz. vol. 162; p. 669.
Wardwell, Simon W., Providence, R. I. Bobbin. No. 989,886; Apr. 18; Sp. p. 3410; Gaz. vol. 165; p. 595.
Wardwell, Simon W., Providence, R. I. Stop device for braiding-machines. No. 1,007,904; Nov. 7; Sp. p. 582; Gaz. vol. 172; p. 90.
Wardwell, Simon W., Providence, R. I. Braiding-machine. No. 1,008,504; Nov. 14; Sp. p. 1984; Gaz. vol. 172; p. 340.
Wardwell, Simon W., Providence, R. I., assignor to Universal Winding Company, Portland, Me. Counter. No. 987,273; Mar. 21; Sp. p. 3207; Gaz. vol. 164; p. 579.
Wardwell, Simon W., Providence, R. I., assignor to Supreme Knitting Bobbin Company, Portland, Me. Yarn-package. No. 998,057; July 18; Sp. p. 3156; Gaz. vol. 168; p. 574.
Wardwell, Simon W., and E. F. Parks, Providence, R. I. Tension device for braiding-machines. No. 981,957; Jan. 17; Sp. p. 4008; Gaz. vol. 162; p. 668.
Ware, Charles. (See Ware, Stephen and C.)
Ware, James F., Denver, Colo. Photoprinting-cabinet. No. 1,001,911; Aug. 29; Sp. p. 5807; Gaz. vol. 169; p. 1057.
Ware, Joseph L., St. Paul, Minn., assignor, by mesne assignments, to The Roberts Lumber Company. Knock-down box. No. 991,569; May 9; Sp. p. 1598; Gaz. vol. 166; p. 294.
Ware Machine & Loom Company. (See Coté, Henry, assignor.)
Ware Machine & Loom Company. (See Côté and Snow, assignors.)
Ware, Reginald, Lewiston, Me. Sash-fastener. No. 1,006,030; Oct. 17; Sp. p. 3196; Gaz. vol. 171; p. 574.
Ware, Stephen and C., Hornsby, near Sydney, New South Wales, Australia. Rail and fish joint. No. 1,004,945; Oct. 3; Sp. p. 857; Gaz. vol. 171; p. 140.
Ware, Thomas, Racine, Wis. Hanger for electrical conductors. No. 1,004,316; Sept. 26; Sp. p. 4695; Gaz. vol. 170; p. 830.
Ware, Thomas D., Chicago, Ill. Insect-destroyer. No. 1,007,620; Oct. 31; Sp. p. 6747; Gaz. vol. 171; p. 1214.
Wareham, Harold J., Brixton, London, England. Coupling for the ends of elastic or other exerciser-cords. No. 989,216; Apr. 11; Sp. p. 1943; Gaz. vol. 165; p. 336.
Wares, James, and J. W. Kippen, Pullman Station, Ill. Junction-box. No. 1,004,946; Oct. 3; Sp. p. 858; Gaz. vol. 171; p. 140.
Warffuel, Ernest M. (See Cole, William B., assignor.)
Warfield, Douglas R., *et al.* (See Rodgers and Richter, assignors.)
Waring, George H., Omaha, Nebr., assignor to The United Gas Improvement Company, Philadelphia, Pa. Manufacture of gas. No. 982,754; Jan. 24; Sp. p. 5658; Gaz. vol. 162; p. 969.
Waring, Nicholas, Rochester, N. Y. Planter. No. 1,001,102; Aug. 22; Sp. p. 4121; Gaz. vol. 169; p. 755.
Waring, Stewart, Evanston, Ill., assignor to Sears, Roebuck & Company. Paper-winding machine. No. 999,352; Aug. 1; Sp. p. 312; Gaz. vol. 169; p. 56.
Waring, Stewart, Evanston, assignor, to Sears, Roebuck and Co., Chicago, Ill. Strip-serving device. No. 1,012,038; Dec. 19; Sp. p. 3696; Gaz. vol. 173; p. 644.
Waring, William, Quincy, assignor to National Brake & Clutch Company, Boston, Mass. Power-transmission device. No. 988,607; Apr. 4; Sp. p. 684; Gaz. vol. 165; p. 109.
Warlic Heater Manufacturing Company. (See Warner and Lichty, assignors.)
Warme, Ivar F. (See Schoeneck and Warme.)
Warne-Browne, Alfred J., London, England. Box or case for containing goods for transport. No. 983,099; Jan. 31; Sp. p. 6420; Gaz. vol. 162; p. 1115.

Alphabetical list of patentees—Continued.

Warner, Adna D., Mishawaka, Ind. Rubber boot or shoe. No. 989,089; Apr. 11; Sp. p. 1683; Gaz. vol. 165; p. 292.
Warner, Alonzo A., assignor to Landers Frary and Clark, New Britain, Conn. Safety-razor. No. 993,132; May 23; Sp. p. 4944; Gaz. vol. 166; p. 895.
Warner, Alonzo A., assignor to Landers, Frary and Clark, New Britain, Conn. Vapor-lamp. No. 993,925; May 30; Sp. p. 6618; Gaz. vol. 166; p. 1193.
Warner, Alonzo A., assignor to Landers, Frary and Clark, New Britain, Conn. Safety-razor. No. 1,012,039; Dec. 19; Sp. p. 3701; Gaz. vol. 173; p. 644.
Warner, Alonzo C., assignor of one-half to L. H. De Vasher, Muskogee, Okla. Trap. No. 986,612; Mar. 14; Sp. p. 1817; Gaz. vol. 164; p. 322.
Warner, Augustus J., Harrisonville, Ohio. Hat-fastener. No. 983,524; Feb. 7; Sp. p. 566; Gaz. vol. 163; p. 91.
Warner, Bert L. (See Wood and Warner.)
Warner Brothers Co. (See Graham, William S., assignor.)
Warner Brothers Co. (See Hill, George S., assignor.)
Warner, Dennis A. (See Clark, Charles W., assignor.)
Warner, Egbert T., Petersburg, Ind. Fire-escape. No. 1,010,544; Dec. 5; Sp. p. 313; Gaz. vol. 173; p. 50.
Warner Electric Company. (See Stone, Richard C., assignor.)
Warner, Frederick H. and L. D., Eddyville, Iowa. Stereopticon-slide carrier. No. 1,012,945; Dec. 26; Sp. p. 5696; Gaz. vol. 173; p. 999.
Warner Gear Company. (See Jones, Frank H., assignor.)
Warner, George W., Topeka, Kans. Sash-hanger. No. 1,007,406; Oct. 31; Sp. p. 6271; Gaz. vol. 171; p. 1141.
Warner, Harry G., Tampa, Fla. Protector for buoys. No. 996,545; June 27; Sp. p. 5373; Gaz. vol. 167; p. 940.
Warner, Howard E., Harvey, N. D. Center-pin for locomotives. No. 992,619; May 16; Sp. p. 3850; Gaz. vol. 166; p. 686.
Warner Instrument Company. (See Soper, Albert L., assignor.)
Warner, James, assignor to American Skate Company, Boston, Mass. Roller-skate. No. 995,504; June 20; Sp. p. 3065; Gaz. vol. 167; p. 547.
Warner, James L., South Bend, Ind. Violin-piano. No. 983,012; Jan. 31; Sp. p. 6237; Gaz. vol. 162; p. 1086.
Warner, John A., assignor to F. Pintler, Ontario, N. Y. Fruit-handling device. No. 980,371; Jan. 3; Sp. p. 385; Gaz. vol. 162; p. 68.
Warner, John A., assignor to F. Pintler, Ontario, N. Y. Machine for handling fruit. No. 980,462; Jan. 3; Sp. p. 611; Gaz. vol. 162; p. 101.
Warner, Lorenzo D. (See Warner, Frederick H. and L. D.)
Warner, Walter J., and D. A. Lichty, assignors to Warlic Heater Manufacturing Company, St. Louis, Mo. Water-heater. No. 981,725; Jan. 17; Sp. p. 3460; Gaz. vol. 162; p. 586.
Warner, William D. (See Stevens, Willie J., assignor.)
Warning Signal Lamp Company, The. (See Rosenfeld, Maurice S., assignor.)
Warnock, Hugh A. (See Niemann, Alfred C., assignor.)
Warnock, Matthew C., Tesla, Cal. Carpet-cleaning apparatus. No. 988,232; Mar. 28; Sp. p. 5254; Gaz. vol. 164; p. 932.
Warnock, Samuel B., Catlettsburg, Ky. Gas-burner. No. 1,007,162; Oct. 31; Sp. p. 5760; Gaz. vol. 171; p. 1054.
Warnock, Wallace S., Chicago, Ill. Printing-press cylinder. No. 999,279; Aug. 1; Sp. p. 162; Gaz. vol. 169; p. 31.
Warnock, Wallace S., Chicago, Ill. Printer's registering device. No. 1,007,163; Oct. 31; Sp. p. 5761; Gaz. vol. 171; p. 1054.
Warnock, Wallace S., Chicago, Ill. Printer's registering device. No. 1,007,164; Oct. 31; Sp. p. 5764; Gaz. vol. 171; p. 1055.
Warns, John J., Wentworth, S. D. Gate-latch. No. 991,119; May 2; Sp. p. 620; Gaz. vol. 166; p. 106.
Warr, George C., New York, N. Y., assignor to Edfa Produce Company. Producing edible and odorless fat from cocoanuts and other similar nuts. No. 992,525; May 16; Sp. p. 3643; Gaz. vol. 166; p. 654.
Warren, Aldred K., Swampscott, Mass., assignor to General Electric Company. Space-block for turbines. No. 1,008,758; Nov. 14; Sp. p. 2548; Gaz. vol. 172; p. 430.
Warren, Alfred T., New York, N. Y. Trick cigar. No. 999,924; Aug. 8; Sp. p. 1465; Gaz. vol. 169; p. 278.
Warren, Anna S., executrix. (See Warren, Samuel E.)
Warren, Charles, Rockford, Ill. Interior-player piano. No. 1,011,293; Dec. 12; Sp. p. 2019; Gaz. vol. 173; p. 347.
Warren, Charles K., assignor to The Warren Featherbone Company, Three Oaks, Mich. Mounting for fabric-supports. No. 1,010,545; Dec. 5; Sp. p. 315; Gaz. vol. 173; p. 50.
Warren, Clifford P., trustee. (See Thompson, Cassius M., assignor.)
Warren, Edward C., Philadelphia, Pa. Internal-combustion pressure-generator. No. 981,339; Jan. 10; Sp. p. 2669; Gaz. vol. 162; p. 433.
Warren Featherbone Company, The. (See Warren, Charles K., assignor.)
Warren Featherbone Company of Michigan. (See Webster, William, assignor.)
Warren, Frederic A., Canon City, Colo. Centrifugal oiling-bearing for car and other wheels. No. 986,525; Mar. 14; Sp. p. 1630; Gaz. vol. 164; p. 290.
Warren, Frederic A., Canon City, Colo. Centrifugal oiling-bearing for car-wheels. No. 986,526; Mar. 14; Sp. p. 1633; Gaz. vol. 164; p. 290.
Warren, Frederic A., Canon City, Colo. Centrifugal oiling-bearing for car and other wheels. No. 1,002,614; Sept. 5; Sp. p. 975; Gaz. vol. 170; p. 144.
Warren, George E., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Shoe-sewing machine. No. 1,007,905; Nov. 7; Sp. p. 587; Gaz. vol. 172; p. 91.
Warren, Henry J. (See Reissner and Warren.)
Warren, Herbert C., Hartford, Conn. Power-transferring device. No. 1,003,017; Sept. 12; Sp. p. 1849; Gaz. vol. 170; p. 320.
Warren, Hugh J., assignor to Perfection Churn Company, Owatonna, Minn. Churn. No. 992,304; May 16; Sp. p. 3170; Gaz. vol. 166; p. 576.
Warren, Ivan G., and H. A. Edwards, London, England. Manufacture of dental plates. No. 990,320; Apr. 25; Sp. p. 4378; Gaz. vol. 165; p. 775.
Warren, James W., Rogers, Ohio. Harness-hitching device. No. 980,716; Jan. 3; Sp. p. 1166; Gaz. vol. 162; p. 186.
Warren, John C., Mooresville, N. C. Automatic switch-operating mechanism. No. 995,827; June 20; Sp. p. 3795; Gaz. vol. 167; p. 661.
Warren Paint Company, The. (See Coe, Henry L., assignor.)
Warren, Samuel E., deceased, Eureka, Cal.; A. S. Warren, executrix. Press-roll. No. 1,006,990; Oct. 24; Sp. p. 5357; Gaz. vol. 171; p. 940.
Warren Steam Pump Company. (See Gage, Burt O., assignor.)
Warren, Thomas E., Ticonderoga, N. Y. Vacuum stock thickening and washing machine. No. 1,002,017; Aug. 29; Sp. p. 6032; Gaz. vol. 169; p. 1092.
Warren, Virgil P., Atlanta, Ga. Hinge. No. 995,743; June 20; Sp. p. 3600; Gaz. vol. 167; p. 632.
Warren, Walter W., and J. E. Knox, Terryville, Conn. Ice-creeper. No. 1,005,676; Oct. 10; Sp. p. 2440; Gaz. vol. 171; p. 419.
Warren Webster & Company. (See Comfort, Edward W., assignor.)
Warren Webster & Company. (See Fitts and Montgomery, assignors.)
Warren Webster & Company. (See Osbourn, Millard P., assignor.)
Warren Webster & Company. (See Serrell, John A., assignor.)
Warrenfeltz, Edward M., Funkstown, Md. Manure-loader. No. 998,058; July 18; Sp. p. 3157; Gaz. vol. 168; p. 574.
Warrick, John A., Chicago, Ill. Pipe-hanger. No. 1,011,294; Dec. 12; Sp. p. 2021; Gaz. vol. 173; p. 348.
Warrick, Oliver C., Pittsboro, Ind. Cultivator. No. 1,011,295; Dec. 12; Sp. p. 2022; Gaz. vol. 173; p. 348.
Warrington, James. (See Cornelius, Charles H., assignor.)
Warrington, Joshua, Lambert, Miss. Railway air-coupling. No. 997,875; July 11; Sp. p. 2725; Gaz. vol. 168; p. 467.
Warth, Karl. (See Erlwein and Warth.)
Warthen, Ernest, Hebron, Nebr. Track lifter and liner. No. 982,401; Jan. 24; Sp. p. 4916; Gaz. vol. 162; p. 851.
Warwick, Charles, Vancouver, British Columbia, Canada. Shingle-drying machine. No. 984,623; Feb. 21; Sp. p. 2990; Gaz. vol. 163; p. 530.
Warwick, Charles, Vancouver, British Columbia, Canada. Shingle-cutting machine. No. 984,624; Feb. 21; Sp. p. 2992; Gaz. vol. 163; p. 530.
Warwick, Vesper V., *et al.* (See Burton, George W., assignor.)
Waschka, Felix A., Crowley, La. Lubricator for furrow-cutters. No. 1,001,103; Aug. 22; Sp. p. 4127; Gaz. vol. 169; p. 756.
Washburn, Arthur W., Memphis, Tenn., and C. D. Keeler, Perthshire, Miss. Lint-cotton cleaner. No. 995,993; June 20; Sp. p. 4127; Gaz. vol. 167; p. 718.
Washburn, Frank S., Nashville, Tenn., assignor to American Cyanamid Company, Baltimore, Md. Apparatus for producing calcium cyanamid. No. 999,071; July 25; Sp. p. 5422; Gaz. vol. 168; p. 965.
Washburn, Frank S., Nashville, Tenn., assignor to American Cyanamid Company, Baltimore, Md. Making cyanamid. No. 1,004,509; Sept. 26; Sp. p. 5088; Gaz. vol. 170; p. 896.
Washburn, Frank S., Nashville, Tenn., assignor to American Cyanamid Company, Baltimore, Md. Making calcium cyanamid. No. 1,009,705; Nov. 21; Sp. p. 4576; Gaz. vol. 172; p. 789.
Washburn, Frank S., assignor to American Cyanamid Company, Baltimore, Md. Producing phosphorus pentoxid and cementitious products. No. 1,000,311; Aug. 8; Sp. p. 2312; Gaz. vol. 169; p. 410.
Washburn, Samuel D., assignor of one-half to The In-er Globe Lamp Company, Boston, Mass. Incandescent lamp. No. 1,008,933; Nov. 14; Sp. p. 2899; Gaz. vol. 172; p. 487.

Alphabetical list of patentees—Continued.

Washburn, Wilbur H., Wildwood, N. J. Boring-machine. No. 1,011,098; Dec. 5; Sp. p. 1535; Gaz. vol. 173; p. 243.
Washington, George M., Houston, Tex. Baling-press. No. 995,932; June 20; Sp. p. 4016; Gaz. vol. 167; p. 698.
Washington Iron Works. (See Watt, Sern P., assignor.)
Washington, William E., Capron, Va. Wrench. No. 1,003,556; Sept. 19; Sp. p. 2969; Gaz. vol. 170; p. 542.
Wassermann, Franz J., Spahl, Germany. Device for applying mosaic ornamentation to cement slabs. No. 995,206; June 13; Sp. p. 2398; Gaz. vol. 167; p. 416.
Wasserstrom, Louis B. (See Buchler, Izidor, assignor.)
Wassiliew, Iwan, Wiatka, Russia. Hot-water heating installation. No. 993,926; May 30; Sp. p. 6621; Gaz. vol. 166; p. 1193.
Wassmer, Eugene, London, England. Electric furnace. No. 985,083; Feb. 21; Sp. p. 3895; Gaz. vol. 163; p. 688.
Wasson, Charles W., and L. M. Wait, Friendship, assignors to Wasson Stanchion Company, Cuba, N. Y. Cattle-stanchion. No. 990,933; May 2; Sp. p. 224; Gaz. vol. 166; p. 39.
Wasson, Robert B., Cranford, N. J. Metal packing-ring. No. 1,008,999; Nov. 14; Sp. p. 3059; Gaz. vol. 172; p. 509.
Wasson, Robert B., Cranford, N. J. Making metal packing-rings. No. 1,009,000; Nov. 14; Sp. p. 3062; Gaz. vol. 172; p. 509.
Wasson Stanchion Company. (See Wasson and Wait, assignors.)
Wasson, Ulysses S., *et al.* (See Archer, Samuel R., assignor.)
Wastell, Alfred M., New Westminster, British Columbia, Canada. Street-indicator for cars. No. 991,678; May 9; Sp. p. 1851; Gaz. vol. 166; p. 334.
Water Vibrator Company. (See Messlin, Rudolph, assignor.)
Water Works Specialty Company, The. (See Brown, William R., assignor.)
Waterbury Buckle Company, The. See Moore, Roswell A., assignor.)
Waterbury Clock Co., The. (See Lux, Paul, assignor.)
Waterbury, Emery D., Sawtelle, assignor of one-half to M. Lintner, Napa, Cal. Can-sealing device. No. 999,612; Aug. 1; Sp. p. 818; Gaz. vol. 169; p. 143.
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Waterbury, George N., Jr., Washington, D. C. Battery-holder. No. 989,738; Apr. 18; Sp. p. 3104; Gaz. vol. 165; p. 545.
Waterbury Mfg. Co. (See Burt, William H., assignor.)
Waterbury Mfg. Co. (See Goddard, Arthur S., assignor.)
Waterbury Mfg. Co. (See Hansen, Jesper, assignor.)
Waterbury Mfg. Co. (See Perkins, Walter H., assignor.)
Waterbury Mfg. Co. (See Recker, Adolph C., assignor.)
Waterhouse, Addison G., New York, N. Y., assignor to T. F. Bourne, trustee, Montclair, N. J. Distilling apparatus. No. 989,672; Apr. 18; Sp. p. 2966; Gaz. vol. 165; p. 522.
Waterhouse, Addison G., New York, N. Y., assignor to T. F. Bourne, trustee, Montclair, N. J. Distilling. No. 991,570; May 9; Sp. p. 1599; Gaz. vol. 166; p. 295.
Waterhouse, Harold D., Quincy, Mass. Gasolene-strainer. No. 1,002,099; Aug. 29; Sp. p. 6184; Gaz. vol. 169; p. 1118.
Waterhouse, Harold D., Norfolk Downs, assignor, by mesne assignments, to American Pneumatic Service Company, Boston, Mass. Receiving apparatus for pneumatic-despatch systems. No. 985,957; Mar. 7; Sp. p. 424; Gaz. vol. 164; p. 68.
Waterhouse, Harold D., Quincy, Mass., assignor to Lamson Consolidated Store Service Company, Newark, N. J. Switch-controller. No. 992,305; May 16; Sp. p. 3171; Gaz. vol. 166; p. 577.
Waterhouse & Lester Co. (See Waterhouse, Seymour W., assignor.)
Waterhouse, Seymour W., San Jose, assignor to Waterhouse & Lester Co., San Francisco, Cal. Bookbinder. No. 985,237; Feb. 28; Sp. p. 4297; Gaz. vol. 163; p. 776.
Waterman, Arnold A. (See Archer, Charles E. W., assignor.)
Waterman, Edwin R., Berkeley, Cal. Liquid-heater. No. 991,765; May 9; Sp. p. 2003; Gaz. vol. 166; p. 360.
Waterman, Frank W., Baltimore, Md. Coin-controlled operating mechanism for vending-machines. No. 989,459; Apr. 11; Sp. p. 2464; Gaz. vol. 165; p. 416.
Waterman, George C. (See Inman, George S., assignor.)
Waterman, George N. (See Flanders, Charles E., assignor.)
Waterman, Henry A., Milwaukee, Wis., assignor to International Harvester Company. Clutch mechanism. No 995,828; June 20; Sp. p. 3798; Gaz. vol. 167; p. 661.
Waterman, Henry A., L. C. Bradley, and W. K. Andrew, Milwaukee, Wis., assignors to International Harvester Company. Steering mechanism for traction-engines. No. 1,001,181; Aug. 22; Sp. p. 4273; Gaz. vol. 169; p. 779.
Waterman, Henry A., L. C. Bradley, and W. K. Andrew, Milwaukee, Wis., assignors to International Harvester Company. Cooling-tank for explosive-engines. No. 1,001,567; Aug. 22; Sp. p. 5042; Gaz. vol. 169; p. 909.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Harrow. No. 984,625; Feb. 21; Sp. p. 2996; Gaz. vol. 163; p. 531.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Corn-planter. No. 984,626; Feb. 21; Sp. p. 2998; Gaz. vol. 163; p. 531.
Waterman, Lewis E., assignor to Emerson-Brantingham Co., Rockford, Ill. Disk-support. No. 990,934; May 2; Sp. p. 226; Gaz. vol. 166; p. 39.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Sled-cultivator. No. 991,120; May 2; Sp. p. 622; Gaz. vol. 166; p. 106.
Waterman, Lewis E., assignor to Emerson-Brantingham Co., Rockford, Ill. Lister-cultivator. No. 1,000,650; Aug. 15; Sp. p. 3105; Gaz. vol. 169; p. 563.
Waterman, Lewis E., assignor to Emerson-Brantingham Co., Rockford, Ill. Cultivator. No. 1,000,651; Aug. 15; Sp. p. 3107; Gaz. vol. 169; p. 563.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Pole attachment. No. 1,000,652; Aug. 15; Sp. p. 3109; Gaz. vol. 169; p. 564.
Waterman, Marcus B., Ambler, Pa., assignor to The J. M. Dodge Company, Naugatuck, Conn. Freight-transfer system. No. 985,647; Feb. 28; Sp. p. 5182; Gaz. vol. 163; p. 916.
Waterman, Russell R., Upland, Cal. Airship. No. 1,007,827; Nov. 7; Sp. p. 401; Gaz. vol. 172; p. 63.
Waters, Daniel F. (See Mallison, Harvey P., assignor.)
Waters, Harry F., Colorado Springs, Colo. Valve-grinding machine. No. 1,003,832; Sept. 19; Sp. p. 3568; Gaz. vol. 170; p. 635.
Waters, Henry, Bisbee, Ariz. Last. No. 1,010,546; Dec. 5; Sp. p. 316; Gaz. vol. 173; p. 51.
Waters, John O. (See Waters, Joseph A., assignor.)
Waters, Joseph A., assignor of one-half to J. O. Waters, Washington, D. C. Spring-tire. No. 997,223; July 4; Sp. p. 1316; Gaz. vol. 168; p. 214.
Waters, Joseph D., Harrisburg, Pa. Combined bed and trunk. No. 981,726; Jan. 17; Sp. p. 3461; Gaz. vol. 162; p. 587.
Waters, Samuel S., Washington, D. C., assignor to Aeolian Company, New York, N. Y. Means for synchronously operating musical instruments. No. 1,002,100; Aug. 29; Sp. p. 6185; Gaz. vol. 169; p. 1119.
Waters, Thomas S., Baltimore, Md. Dental tool. No. 1,004,118; Sept. 26; Sp. p. 4293; Gaz. vol. 170; p. 763.
Waterville Tractor Company, The. (See Zock, August E., assignor.)
Watkins, Alfred, The Imperial Mills, Hereford, England. Determining relative times of development of photographic plates and films for different temperatures. No. 1,004,947; Oct. 3; Sp. p. 861; Gaz. vol. 171; p. 140.
Watkins, Benjamin F. (See Hine, Lucian J., assignor.)
Watkins, Daniel G. (See Toohey, John A., assignor.)
Watkins, Daniel G., Dunnellon, Fla. Propeller-guard. No. 983,587; Feb. 7; Sp. p. 725; Gaz. vol. 163; p. 113.
Watkins, David M., Providence, R. I. Hat-pin protector. No. 995,744; June 20; Sp. p. 3601; Gaz. vol. 167; p. 632.
Watkins, Emerry D., Columbus, Ga. Advertising-frame for pool-tables. No. 982,909; Jan. 31; Sp. p. 6002; Gaz. vol. 162; p. 1052.
Watkins, Fred E., *et al.* (See Gambill and Woods, assignors.)
Watkins, Guy E., McComb, Miss. Mail-bag catcher. No. 983,100; Jan. 31; Sp. p. 6422; Gaz. vol. 162; p. 1116.
Watkins, Henry T., Chicago, Ill. Game apparatus. No. 988,526; Apr. 4; Sp. p. 504; Gaz. vol. 165; p. 80.
Watkins, Leonard A., Chicago, Ill. Illuminated sign. No. 987,335; Mar. 21; Sp. p. 3332; Gaz. vol. 164; p. 598.
Watkins, Louis G. (See Wickman and Watkins.)
Watkins, Orla H., Ames, Iowa. Gearing for washing-machines. No. 998,728; July 25; Sp. p. 4658; Gaz. vol. 168; p. 843.
Watkins, Raymond M., Pittsburg, Pa. Wind-shield. No. 995,308; June 13; Sp. p. 2599; Gaz. vol. 167; p. 450.
Watkins, Thomas H., Wakpala, S. D. Insulator. No. 1,009,810; Nov. 28; Sp. p. 4813; Gaz. vol. 172; p. 872.
Watkins, William H., Niles, Ohio. Trap. No. 995,207; June 13; Sp. p. 2399; Gaz. vol. 167; p. 416.
Watkins, William M., Lancaster, Ky. Harness attachment. No. 999,280; Aug. 1; Sp. p. 165; Gaz. vol. 169; p. 31.
Watkinson, Jacob, and A. E. Payne, London, England. Apparatus for regulating or controlling the pressure of the current in an electric circuit. No. 983,414; Feb. 7; Sp. p. 329; Gaz. vol. 163; p. 56.
Watrous, Earl G., Chicago, Ill. Valve. No. 995,642; June 20; Sp. p. 3387; Gaz. vol. 167; p. 597.
Watrous, Earl G., Chicago, Ill. Water-closet. No. 1,000,565; Aug. 15; Sp. p. 2903; Gaz. vol. 169; p. 532.
Watrous, Earl G., Chicago, Ill. Lavatory-fixture. No. 1,006,610; Oct. 24; Sp. p. 4542; Gaz. vol. 171; p. 810.
Watrous, Earl G., Chicago, Ill. Combined shut-off and check valve. No. 1,010,547; Dec. 5; Sp. p. 318; Gaz. vol. 173; p. 51.
Watrous, Edward L., Des Moines, Iowa. Combined hinge and hanger. No. 998,137; July 18; Sp. p. 3342; Gaz. vol. 168; p. 602.
Watrous, Edward L., Des Moines, Iowa. Automatic door-catch. No. 998,138; July 18; Sp. p. 3343; Gaz. vol. 168; p. 602.

Watrous, Frank L., Forest Grove, Oreg. Tripod. No. 992,395; May 16; Sp. p. 3379; Gaz. vol. 166; p. 609.
Watrous, Frank P., Long Beach, Miss. Defecating and evaporating apparatus. No. 1,006,321; Oct. 17; Sp. p. 3869; Gaz. vol. 171; p. 676.
Watrous, Ralph C., assignor to Rhode Island Perkins Horse Shoe Company, Providence, R. I. Horseshoe-calk. No. 999,685; Aug. 1; Sp. p. 961; Gaz. vol. 169; p. 168.
Watson, Alexander, Beachmont, assignor to B. C. Leavitt, trustee, Duxbury, Mass. Valve. No. 983,960; Feb. 14; Sp. p. 1534; Gaz. vol. 163; p. 269.
Watson, Cecil, and R. A. S. Paget, London, England. Spring. No. 993,208; May 23; Sp. p. 5095; Gaz. vol. 166; p. 919.
Watson, Charles P., Pittsburg, Pa. Projectile. No. 1,004,510; Sept. 26; Sp. p. 5090; Gaz. vol. 170; p. 896.
Watson, Christopher H., Riverside, Cal. Water-recorder. No. 996,546; June 27; Sp. p. 5374; Gaz. vol. 167; p. 940.
Watson, Fielden, and W. Moulding, Cswaldtwistle, England, assignors to Howard & Bullough American Machine Company, Limited, Pawtucket, R. I. Automatically-controlled securing or locking device for safeguarding machinery. No. 998,866; July 25; Sp. p. 4960; Gaz. vol. 168; p. 892.
Watson, Frank H., Pawtucket, R. I. Smoke-bell support. No. 989,090; Apr. 11; Sp. p. 1684; Gaz. vol. 165; p. 293.
Watson, George G. (See Curtis, Charles H., assignor.)
Watson, George W., assignor to Nashua Card Gummed & Coated Paper Company, Nashua, N. H. Machine for cutting paper. No. 1,001,912; Aug. 29; Sp. p. 5817; Gaz. vol. 169; p. 1058.
Watson, Harry, Brandon, Miss. Self-setting clock. No. 998,819; July 25; Sp. p. 4846; Gaz. vol. 168; p. 875.
Watson, Hugh W. (See Brautigam, Frederick H., assignor.)
Watson, Ira E., Plainview, Nebr. Music-leaf turner. No. 1,009,811; Nov. 28; Sp. p. 4814; Gaz. vol. 172; p. 872.
Watson, James H., Riverton, Wyo. Rotary engine. No. 984,983; Feb. 21; Sp. p. 3699; Gaz. vol. 163; p. 653.
Watson, John A., Raymond, Ill. Hay-fork. No. 1,003,833; Sept. 19; Sp. p. 3570; Gaz. vol. 170; p. 635.
Watson, John C., Kellerman, Ala. Foot-protector. No. 1,003,077; Sept. 12; Sp. p. 1963; Gaz. vol. 170; p. 340.
Watson, John L., Blue-Island, Ill. Safety-razor. No. 999,925; Aug. 8; Sp. p. 1466; Gaz. vol. 169; p. 278.
Watson, Morris L., assignor of one-half to J. J. Boyette, Satuma, Ark. Plow. No. 1,002,344; Sept. 5; Sp. p. 386; Gaz. vol. 170; p. 54.
Watson, Preston A., Dundee, Scotland. Flying-machine. No. 988,415; Apr. 4; Sp. p. 271; Gaz. vol. 165; p. 44.
Watson, Samuel J., assignor to L. S. Allen, Chicago, Ill. Letter-sheet. No. 1,000,466; Aug. 15; Sp. p. 2674; Gaz. vol. 169; p. 497.
Watson, William H., Keene, N. H. Cushion-heel. No. 989,673; Apr. 18; Sp. p. 2968; Gaz. vol. 165; p. 523.
Watson, William T., Vancouver, British Columbia, Canada. Wheel-guard. No. 993,209; May 23; Sp. p. 5097; Gaz. vol. 166; p. 919.
Watt, Andrew P., Baltimore, Md. Machine for stringing corks. No. 991,915; May 9; Sp. p. 2315; Gaz. vol. 166; p. 412.
Watt, Elihu D., La Grange, Ill., assignor to Raymond Concrete Pile Company, New York, N. Y. Shell for molding concrete piles. No. 991,121; May 2; Sp. p. 623; Gaz. vol. 166; p. 106.
Watt, George D., *et al.* (See Doney, Charles S., assignor.)
Watt, George F., assignor to Elliott-Fisher Company, Harrisburg, Pa. Posting-box. No. 1,009,360; Nov. 21; Sp. p. 3873; Gaz. vol. 172; p. 674.
Watt, George H. (See Gagnon and Watt.)
Watt, George H., assignor, by mesne assignments, to W. A. Phillips, Detroit, Mich. Valve mechanism. No. 992,089; May 9; Sp. p. 2643; Gaz. vol. 166; p. 470.
Watt, John A., Halifax, Nova Scotia, Canada. Combined auxiliary rudder and brake for ships. No. 988,233; Mar. 28; Sp. p. 5256; Gaz. vol. 164; p. 932.
Watt, Sern P., assignor to Washington Iron Works, Seattle, Wash. Cable-tramway. No. 993,423; May 30; Sp. p. 5562; Gaz. vol. 166; p. 1021.
Wattenburger, Jacob H., assignor of one-half to H. B. Gillette, Echo, Oreg. Decoy-tether. No. 985,084; Feb. 21; Sp. p. 3898; Gaz. vol. 163; p. 689.
Watters, George W., *et al.* (See Bennett, David E., assignor.)
Watters, Isaac H., Galesburg, Ill. Hinge. No. 1,004,317; Sept. 26; Sp. p. 4697; Gaz. vol. 170; p. 831.
Watters, John H., Augusta, Ga. Feed-water-strainer valve. No. 999,532; Aug. 1; Sp. p. 670; Gaz. vol. 169; p. 115.
Watters, Rama R., Akron, Ohio. Governor for rotating sieves and the like. No. 1,002,476; Sept. 5; Sp. p. 672; Gaz. vol. 170; p. 97.
Watterson, W. R. (See Carney, Frank, assignor.)
Wattie, William, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Shuttle and shuttle-block for narrow-ware looms. No. 989,091; Apr. 11; Sp. p. 1685; Gaz. vol. 165; p. 293.
Wattie, William, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Picker for looms. No. 994,807; June 13; Sp. p. 1550; Gaz. vol. 167; p. 284.
Wattie, William, Worcester, Mass., assignor to Crompton & Knowles Loom Works. Needle-motion for looms. No. 1,009,872; Nov. 28; Sp. p. 4942; Gaz. vol. 172; p. 893.
Wattles, Luther H., Providence, assignor of one-half to M. C. Messler, Pawtucket, R. I. Sparking igniter. No. 990,935; May 2; Sp. p. 227; Gaz. vol. 166; p. 40.
Wattripont, Georges de, Roissy-en-Brie, France. Stacker. No. 988,682; Apr. 4; Sp. p. 837; Gaz. vol. 165; p. 135.
Watts, Benjamin A., St. Louis, Mo. Siphon apparatus. No. 1,012,040; Dec. 19; Sp. p. 3703; Gaz. vol. 173; p. 644.
Watts, Fieldon C., Jonesboro, Ark. Combined generator and gas-burner. No. 997,722; July 11; Sp. p. 2355; Gaz. vol. 168; p. 414.
Watts, George S., Gainesville, Ga. Car-step. No. 1,009,812; Nov. 28; Sp. p. 4816; Gaz. vol. 172; p. 873.
Watts, Oscar J., Kensington, Kans. Pipe-wrench. No. 1,002,101; Aug. 29; Sp. p. 6187; Gaz. vol. 169; p. 1119.
Watts, Robert L., and A. G. Onstead, assignors of one-half to said A. G. Onstead and one-half to J. F. Erby, Waxahachie, Tex. Resilient vehicle-wheel. No. 1,004,318; Sept. 26; Sp. p. 4699; Gaz. vol. 170; p. 831.
Watts, Simeon J., D. C. Jones, and W. C. Barton, El Paso, Tex. Oil-burner. No. 993,319; May 23; Sp. p. 5312; Gaz. vol. 166; p. 953.
Watts, Thomas H., Buffalo, N. Y. Car-door lock. No. 986,786; Mar. 14; Sp. p. 2175; Gaz. vol. 164; p. 380.
Watts, Walter G., *et al.* (See Kett, Richard, assignor.)
Watts, Walter G., J. L. Brusse, and F. E. Tiedemann, Denver, Colo. Tobacco-smoking pipe. No. 997,164; July 4; Sp. p. 1205; Gaz. vol. 168; p. 194.
Watts, William, Champaign, Ill. Pneumatic stacker. No. 994,808; June 13; Sp. p. 1551; Gaz. vol. 167; p. 284.
Watts, William, Jackson, Mich. Corn-sheller. No. 999,072; July 25; Sp. p. 5424; Gaz. vol. 168; p. 965.
Waugh, Daniel S., assignor to the Denver Rock Drill and Machinery Co., Denver, Colo. Rock-drill. No. 984,171; Feb. 14; Sp. p. 1982; Gaz. vol. 163; p. 340.
Waugh, Daniel S., assignor to The Denver Rock Drill & Machinery Company, Denver, Colo. Throttle-valve for rock-drills. No. 993,424; May 30; Sp. p. 5567; Gaz. vol. 166; p. 1022.
Waugh, Daniel S., assignor to The Denver Rock Drill and Machinery Company, Denver, Colo. Pressure-reducing mechanism for motive-fluid drills. No. 1,000,467; Aug. 15; Sp. p. 2675; Gaz. vol. 169; p. 497.
Waugh, Daniel S., assignor to The Denver Rock Drill & Machinery Company, Denver, Colo. Drilling-machine. No. 1,003,018; Sept. 12; Sp. p. 1851; Gaz. vol. 170; p. 320.
Waugh, Daniel S., assignor to The Denver Rock Drill & Machinery Co., Denver, Colo. Throttle-valve. No. 1,006,514; Oct. 24; Sp. p. 4315; Gaz. vol. 171; p. 774.
Waugh, James M., Chicago, Ill. Platform-buffer. No. 1,011,296; Dec. 12; Sp. p. 2026; Gaz. vol. 173; p. 349.
Waugh, Merriweather J., Lincoln, Nebr. Paint. No. 981,902; Jan. 17; Sp. p. 3851; Gaz. vol. 162; p. 649.
Waugh, Merriweather J., Lincoln, Nebr. Paint. No. 987,605; Mar. 21; Sp. p. 3872; Gaz. vol. 164; p. 690.
Waugh, Merriweather J., Lincoln, Nebr. Paint. No. 987,606; Mar. 21; Sp. p. 3873; Gaz. vol. 164; p. 690.
Waugh, Merriweather J., Lincoln, Nebr. Paint. No. 987,607; Mar. 21; Sp. p. 3874; Gaz. vol. 164; p. 690.
Waugh, Merriweather J., Lincoln, Nebr. Paint. No. 987,608; Mar. 21; Sp. p. 3876; Gaz. vol. 164; p. 690.
Wauthoz, Henri, assignor to Société Anonyme "Alumina," Brussels, Belgium. Incandescent oil-lamp. No. 999,070; July 25; Sp. p. 5421; Gaz. vol. 168; p. 964.
Way, Bernard, *et al.* (See Burnap, James M., assignor.)
Way, Chester F., Elm Creek, Nebr. Manure spreader and loader. No. 984,328; Feb. 14; Sp. p. 2338; Gaz. vol. 163; p. 395.
Way, Claude W., Hastings, Nebr. Sash-lock. No. 983,588; Feb. 7; Sp. p. 726; Gaz. vol. 163; p. 113.
Way, David R., Fairfield, Iowa. Acetylene-gas generator. No. 1,009,119; Nov. 21; Sp. p. 3317; Gaz. vol. 172; p. 587.
Way, John H., St. Davids, Pa. Knit garment. No. 1,009,606; Nov. 21; Sp. p. 4396; Gaz. vol. 172; p. 757.
Way, Solyman J., Manchester, Vt. Attachment for opening and closing automobile-doors. No. 986,880; Mar. 14; Sp. p. 2393; Gaz. vol. 164; p. 414.
Way, Sylvester B., and J. L. Fay, St. Louis, Mo. Safety-fuse and line-disconnecting switch. No. 986,034; Mar. 7; Sp. p. 600; Gaz. vol. 164; p. 96.
Way, Thomas L. (See McDonald and Way.)
Waybright, Charles S., Crabbottom, Va. Churn. No. 1,002,345; Sept. 5; Sp. p. 388; Gaz. vol. 170; p. 55.
Waycott, Albert. (See Handiges, Philip T., assignor.)
Waycott, Albert, assignor to The Damascus Brake Beam Co., Cleveland, Ohio. Car-wheel and brake-shoe. No. 988,608; Apr. 4; Sp. p. 686; Gaz. vol. 165; p. 110.
Wayda, Peter, Aurora, Ill. Permutation-padlock. No. 1,001,104; Aug. 22; Sp. p. 4128; Gaz. vol. 169; p. 756.
Wayne Manufacturing Company. (See Marth, Charles J., assignor.)
Wayne Oil Tank and Pump Company. (See Diserens, Ralph F., assignor.)
Wdowicki, John, Jersey City, N. J. Trolley. No. 997,165; July 4; Sp. p. 1207; Gaz. vol. 168; p. 194.

Alphabetical list of patentees—Continued.

Wear, Charles. (See Willcox, James E., assignor.)
Wear, F. E. (See Sturgis, Herbert M., assignor.)
Wear, Frank F., San Francisco, Cal. Pneumatic conveyer. No. 981,041; Jan. 10; Sp. p. 1986; Gaz. vol. 162; p. 327.
Wear, Frank F., San Francisco, Cal. Combined coffee grinder and cleaner. No. 989,217; Apr. 11; Sp. p. 1943; Gaz. vol. 165; p. 336.
Wear, Frank F., San Francisco, Cal. Coffee-chaff separator. No. 1,005,380; Oct. 10; Sp. p. 1762; Gaz. vol. 171; p. 314.
Weatherby, Calvin S., Paulsboro, N. J. Shipping-case. No. 1,001,717; Aug. 29; Sp. p. 5375; Gaz. vol. 169; p. 992.
Weatherby, Charles B., St. Louis, Mo. Knockdown crate. No. 989,739; Apr. 18; Sp. p. 3107; Gaz. vol. 165; p. 546.
Weatherford, Joseph H. (See Saino, Lynch, Dunbar, and Weatherford.)
Weatherill, Henry G., Elgin, Ill. Attachment for check-reins. No. 981,505; Jan. 10; Sp. p. 3007; Gaz. vol. 162; p. 490.
Weatherly, Frank H., Grand Rapids, Mich. Pipe-joint. No. 1,006,031; Oct. 17; Sp. p. 3197; Gaz. vol. 171; p. 574.
Weatherly, George B., Fort Worth, Tex. Wrench. No. 1,002,615; Sept. 5; Sp. p. 978; Gaz. vol. 170; p. 145.
Weatherly, William F., assignor of one-half to A. W. Cagle, Campbell, Mo. Pneumatic car-step. No. 1,012,773; Dec. 26; Sp. p. 5250; Gaz. vol. 173; p. 940.
Weatherman, Robert W., assignor of one-half to F. Hartley, Selmore, Mo. Sound-reproducing instrument. No. 996,816; July 4; Sp. p. 443; Gaz. vol. 168; p. 73.
Weathers, David N., Marengo, assignor of one-half to N. A. Alford, Algiers, Pike county, Ind. Lock. No. 1,010,992; Dec. 5; Sp. p. 1302; Gaz. vol. 173; p. 207.
Weathers, William F., Jackson, Mich. Pail-hanger. No. 986,660; Mar. 14; Sp. p. 1926; Gaz. vol. 164; p. 339.
Weaver, Bent L. (See Reinoehl and Weaver.)
Weaver, Bent L., Middletown, and W. R. Miller, Penbrook, Pa., assignors to R. & W. Company. Push-button system for desks and the like. No. 1,003,677; Sept. 19; Sp. p. 3246; Gaz. vol. 170; p. 585.
Weaver, Charles N., San Dimas, Cal. Case for holding labels or the like. No. 1,010,468; Dec. 5; Sp. p. 142; Gaz. vol. 173; p. 25.
Weaver, Elbert R., Homosassa, Fla. Electric alarm-clock. No. 1,006,322; Oct. 17; Sp. p. 3871; Gaz. vol. 171; p. 677.
Weaver, Fleming H., Griffin, Ga. Planter and fertilizer-distributer. No. 986,250; Mar. 7; Sp. p. 1034; Gaz. vol. 164; p. 166.
Weaver, Fleming H., assignor of one-half to J. A. Rice, Griffin, Spalding county, Ga. Wagon running-gear. No. 1,005,909; Oct. 17; Sp. p. 2934; Gaz. vol. 171; p. 531.
Weaver, Henry G., Eatonton, Ga. Combined muffler-cut-out valve, whistle, and safety alarm-valve. No. 1,004,833; Oct. 3; Sp. p. 614; Gaz. vol. 171; p. 101.
Weaver, Henry M., Mansfield, Ohio. Bath-tub fitting. No. 1,010,469; Dec. 5; Sp. p. 144; Gaz. vol. 173; p. 26.
Weaver, Henry M., Mansfield, Ohio. Lavatory. No. 1,012,041; Dec. 19; Sp. p. 3704; Gaz. vol. 173; p. 645.
Weaver, Ira A., assignor to Racine-Sattley Company, Springfield, Ill. Cultivator. No. 1,006,032; Oct. 17; Sp. p. 3198; Gaz. vol. 171; p. 574.
Weaver, John P., Terre Haute, Ind. Reel-holder. No. 984,627; Feb. 21; Sp. p. 2999; Gaz. vol. 163; p. 532.
Weaver, John P., Terre Haute, Ind. Reel-holder. No. 990,176; Apr. 18; Sp. p. 4022; Gaz. vol. 165; p. 693.
Weaver, Leland S., Fremont, Mich., and W. F. Altenbaugh, Seattle, Wash. Filing-cabinet. No. 981,959; Jan. 17; Sp. p. 4014; Gaz. vol. 162; p. 669.
Weaver, Leonard A., Bixby, S. D. Fence-post. No. 994,809; June 13; Sp. p. 1552; Gaz. vol. 167; p. 284.
Weaver, Mabel D., Los Angeles, Cal. Comb. No. 1,012,179; Dec. 19; Sp. p. 4017; Gaz. vol. 173; p. 692.
Weaver, Martha T., Cleveland, Ohio. Fireplace. No. 1,010,101; Nov. 28; Sp. p. 5416; Gaz. vol. 172; p. 971.
Weaver, Philo H. (See Potts and Weaver.)
Weaver, Robert B. (See Hunt and Weaver.)
Weaver, Sara E., Carlisle, Pa. Rein-guide. No. 1,003,678; Sept. 19; Sp. p. 3248; Gaz. vol. 170; p. 585.
Weaver, Warren B., Lakeland, Fla. Sash-lock. No. 997,876; July 11; Sp. p. 2728; Gaz. vol. 168; p. 468.
Weaver, William, Riverton, Utah. Cleaning mechanism for horse-rakes. No. 994,622; June 6; Sp. p. 1076; Gaz. vol. 167; p. 179.
Weaver, William H., Jeddo, Pa. Automatic air-brake-train-line coupling. No. 997,028; July 4; Sp. p. 934; Gaz. vol. 168; p. 148.
Webb, Albert C., assignor to The Webb Motor Fire Apparatus Company, St. Louis, Mo. Rotary-pump casing for auto fire apparatus. No. 1,005,586; Oct. 10; Sp. p. 2250; Gaz. vol. 171; p. 387.
Webb, Earll H. (See Speed, James B., assignor.)
Webb, Edwin W. (See Barber and Webb.)
Webb, Edwin W., Oak Park, Ill., assignor, by mesne assignments, to The Farlow Draft Gear Company, Baltimore, Md. Draft-gear. No. 1,004,511; Sept. 26; Sp. p. 5092; Gaz. vol. 170; p. 897.

Webb, Edwin W., and T. P. Convey, Chicago, Ill. Window-shade. No. 1,004,319; Sept. 26; Sp. p. 4700; Gaz. vol. 170; p. 831.
Webb, Emma I., Denver, Colo. Skirted union suit. No. 1,007,995; Nov. 7; Sp. p. 767; Gaz. vol. 172; p. 121.
Webb, Eugene, Chicago, Ill. Draft control for furnaces. No. 999,926; Aug. 8; Sp. p. 1467; Gaz. vol. 169; p. 278.
Webb, George, Monmouth, England. Tire-carrying rim for vehicle-wheels. No. 997,877; July 11; Sp. p. 2729; Gaz. vol. 168; p. 468.
Webb, George, Monmouth, assignor to The Spencer Moulton Rim Syndicate Limited, London, England. Rim for the road-wheels of vehicles. No. 983,789; Feb. 7; Sp. p. 1135; Gaz. vol. 163; p. 182.
Webb, George B., Westfield, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 997,482; July 11; Sp. p. 1824; Gaz. vol. 168; p. 330.
Webb, Jacob W., assignor of one-half to R. D. Williams, Holcomb, Miss. Plow. No. 1,008,505; Nov. 14; Sp. p. 1992; Gaz. vol. 172; p. 340.
Webb, James P., Emerson, assignor of one-half to G. H. Moody, Remington, Okla. Railway-tie. No. 1,001,788; Aug. 29; Sp. p. 5530; Gaz. vol. 169; p. 1015.
Webb, James P., Emerson, assignor of one-half to G. H. Moody, Remington, Okla. Rail-joint. No. 1,001,913; Aug. 29; Sp. p. 5819; Gaz. vol. 169; p. 1059.
Webb, Jean F., New York, N. Y. Refrigerator. No. 998,434; July 18; Sp. p. 3995; Gaz. vol. 168; p. 708.
Webb, Jean F., New York, N. Y. Safety alighting attachment for flying-machines. No. 1,011,683; Dec. 12; Sp. p. 2903; Gaz. vol. 173; p. 485.
Webb, Jean F., Denver, Colo. Refrigerator. No. 998,560; July 18; Sp. p. 4237; Gaz. vol. 168; p. 751.
Webb, Jean F., Denver, Colo. Tank or container. No. 1,007,828; Nov. 7; Sp. p. 403; Gaz. vol. 172; p. 63.
Webb Motor Fire Apparatus Company, The. (See Webb, Albert C., assignor.)
Webb, Samuel J., Minden, La. Hydraulic compress with double-acting ram. No. 996,692; July 4; Sp. p. 190; Gaz. vol. 168; p. 33.
Webb, Samuel J., Minden, La. Hydraulic press. No. 996,693; July 4; Sp. p. 192; Gaz. vol. 168; p. 33.
Webb, Samuel J., Minden, La. Hot-air locomotive. No. 997,878; July 11; Sp. p. 2731; Gaz. vol. 168; p. 468.
Webb, Samuel J., Minden, La. Gas-engine. No. 1,003,019; Sept. 12; Sp. p. 1853; Gaz. vol. 170; p. 321.
Webb, Samuel J., Minden, La. Rotary pump. No. 1,003,020; Sept. 12; Sp. p. 1854; Gaz. vol. 170; p. 321.
Webb, Schuyler S., Forest, Ohio. Rotary engine. No. 1,012,305; Dec. 19; Sp. p. 4287; Gaz. vol. 173; p. 735.
Webb, Wilbur L., Bridgewater Corners, Vt. Fly-trap for screens. No. 989,314; Apr. 11; Sp. p. 2170; Gaz. vol. 165; p. 369.
Webber, Irving M., Milwaukee, Wis. Garment-suspenders. No. 984,172; Feb. 14; Sp. p. 1985; Gaz. vol. 163; p. 340.
Webber, Joseph C., Denver, Colo. Nut-lock. No. 998,217; July 18; Sp. p. 3500; Gaz. vol. 168; p. 630.
Webber, Samuel S., assignor to The Trenton Iron Company, Trenton, N. J. Grip for cableways. No. 1,011,535; Dec. 12; Sp. p. 2558; Gaz. vol. 173; p. 433.
Webber, William. (See Benjamin and Webber.)
Webber, William, Wessington Springs, S. D. Washing-machine. No. 987,931; Mar. 28; Sp. p. 4634; Gaz. vol. 164; p. 831.
Webber, William, Berwyn, Ill., assignor to International Harvester Company. Mowing-machine. No. 995,829; June 20; Sp. p. 3799; Gaz. vol. 167; p. 661.
Webendorfer, John F., Boonton, N. J., assignor, by mesne assignments, to Hexagon Tool Co., Niagara Falls, N. Y. Lathe. No. 1,000,764; Aug. 15; Sp. p. 3336; Gaz. vol. 169; p. 602.
Weber, Anton, assignor to T. Booth Co., Oakland, Cal. Sash-fixture. No. 1,012,774; Dec. 26; Sp. p. 5252; Gaz. vol. 173; p. 941.
Weber, Arthur J. (See Thrasher, Elmer E., assignor.)
Weber, August, Sr., assignor to Weber Electric Company, Schenectady, N. Y. Pull-socket for incandescent electric lamps. No. 984,053; Feb. 14; Sp. p. 1753; Gaz. vol. 163; p. 301.
Weber, August, Sr., assignor to Weber Electric Company, Schenectady, N. Y. Incandescent-electric-lamp socket. No. 1,009,120; Nov. 21; Sp. p. 3319; Gaz. vol. 172; p. 587.
Weber, Charles, Saranac, Mich. Car-door latch. No. 1,009,001; Nov. 14; Sp. p. 3067; Gaz. vol. 172; p. 509.
Weber, Charles S., San Jose, Cal. Stringing pianos. No. 996,817; July 4; Sp. p. 447; Gaz. vol. 168; p. 74.
Weber, Charles S., San Jose, Cal. Pin for piano-bridges. No. 1,011,536; Dec. 12; Sp. p. 2560; Gaz. vol. 173; p. 434.
Weber Electric Company. (See Goss and Weber, assignors.)
Weber Electric Company. (See Weber, August, Sr., assignor.)
Weber, Frederick C., New York, N. Y. Subterranean pumping system. No. 990,085; Apr. 18; Sp. p. 3823; Gaz. vol. 165; p. 663.
Weber, Frederick C., New York, N. Y. Pumping system. No. 998,059; July 18; Sp. p. 3163; Gaz. vol. 168; p. 574.

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Weber, George A., assignor to C. F. Adam, Trenton, N. J. Governing driving mechanism. No. 1,009,706; Nov. 21; Sp. p. 4578; Gaz. vol. 172; p. 789.
Weber, George W., assignor to American Can Company, New York, N. Y. Making seamless-body cans. No. 984,173; Feb. 14; Sp. p. 1986; Gaz. vol. 163; p. 341.
Weber, Henry. (See Kroll and Weber.)
Weber, Henry, assignor to Latham Machinery Company, Chicago, Ill. Wire feeding, straightening, and cutting mechanism for stapling-machines. No. 980,894; Jan. 3; Sp. p. 1558; Gaz. vol. 162; p. 246.
Weber, Henry, assignor to American Brick-Handling Machine Co., Chicago, Ill. Brick-stacker. No. 991,254; May 2; Sp. p. 910; Gaz. vol. 166; p. 154.
Weber, Henry, assignor to American Brick Handling Machine Co., Chicago, Ill. Brick-grapple. No. 995,830; June 20; Sp. p. 3800; Gaz. vol. 167; p. 662.
Weber, John. (See Goss and Weber.)
Weber, John, Jr., and O. Cope, Toledo, Ohio. Electroplating apparatus. No. 1,004,119; Sept. 26; Sp. p. 4294; Gaz. vol. 170; p. 763.
Weber, John I., Moscow, Idaho. Draper-canvas. No. 1,012,486; Dec. 19; Sp. p. 4632; Gaz. vol. 173; p. 795.
Weber, Josef. (See Goldschmidt and Weber.)
Weber, Ludwig, Cologne, assignor to F. Meyer, Aix-la-Chapelle, Germany. Fastening for buttons and like articles. No. 1,011,684; Dec. 12; Sp. p. 2907; Gaz. vol. 173; p. 486.
Weber, Mathew J., assignor to The Ohio Pump and Brass Company, Columbus, Ohio. Fluid-pressure governor. No. 983,101; Jan. 31; Sp. p. 6424; Gaz. vol. 162; p. 1116.
Weber, Matthew J., and M. Huggins, Columbus, Ohio. Semirotary motor. No. 1,006,157; Oct. 17; Sp. p. 3491; Gaz. vol. 171; p. 619.
Weber-McCormick, Sara, Royal Oak, Mich., assignor to American Corset Stay Company, Phoenix, Ariz. Corset-stay. No. 1,006,888; Oct. 24; Sp. p. 5159; Gaz. vol. 171; p. 906.
Weber, Oskar, and G. Schreiber, Griesheim, assignors to Chemische Fabrik Griesheim-Elektron, Frankfort-on-the-Main, Germany. Means for electric-arc reactions on gases. No. 981,727; Jan. 17; Sp. p. 3462; Gaz. vol. 162; p. 587.
Weber, Peter, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph. No. 985,716; Feb. 28; Sp. p. 5365; Gaz. vol. 163; p. 939.
Weber, Peter, Orange, assignor to New Jersey Patent Company, West Orange, N. J. Phonograph stop device. No. 985,717; Feb. 28; Sp. p. 5366; Gaz. vol. 163; p. 940.
Weber, Peter, Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-horn crane. No. 998,218; July 18; Sp. p. 3502; Gaz. vol. 168; p. 631.
Weber, Peter, Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-horn. No. 1,010,333; Nov. 28; Sp. p. 5883; Gaz. vol. 172; p. 1047.
Weber, Philip, Genoa Junction, Wis. Egg-rack. No. 992,396; May 16; Sp. p. 3381; Gaz. vol. 166; p. 609.
Weber, Philip, Genoa Junction, Wis. Road-map. No. 997,166; July 4; Sp. p. 1207; Gaz. vol. 168; p. 195.
Weber, Samuel, Ossining, N. Y. Flying-machine. No. 1,005,381; Oct. 10; Sp. p. 1763; Gaz. vol. 171; p. 315.
Weber, Stephen T., Peoria, Ill. Motor-cycle stand. No. 998,219; July 18; Sp. p. 3503; Gaz. vol. 168; p. 631.
Weber-Stierlin, Ernst, Zurich, Switzerland. Gas-distributing device. No. 1,003,302; Sept. 12; Sp. p. 2450; Gaz. vol. 170; p. 422.
Weber, Theodore A. (See Brower and Weber.)
Weber, Theodore J., Grand Rapids, Mich., and A. S. B. Little, St. Louis, Mo. Manufacture and distribution of gas. No. 980,889; Jan. 3; Sp. p. 1544; Gaz. vol. 162; p. 244.
Webler, William H., Sodus Center, N. Y. Convertible rack. No. 994,894; June 13; Sp. p. 1775; Gaz. vol. 167; p. 313.
Webner, Frank E., Norwood, assignor to The American Mechanical Calculator Company, Cincinnati, Ohio. Mechanical calculator. No. 997,483; July 11; Sp. p. 1834; Gaz. vol. 168; p. 331.
Webster, Edwin A., Groveland, assignor to Haverhill Channeling Machine Co., Haverhill, Mass. Heel-breasting machine. No. 981,506; Jan. 10; Sp. p. 3009; Gaz. vol. 162; p. 490.
Webster, Edwin A., Groveland, assignor to Haverhill Channeling Machine Co., Haverhill, Mass. Heel-breasting machine. (Reissue.) No. 13,253; May 30; Sp. p. 7022; Gaz. vol. 166; p. 1261.
Webster, Eugene, Sheho, Saskatchewan, Canada. Currycomb. No. 995,745; June 20; Sp. p. 3602; Gaz. vol. 167; p. 632.
Webster, Frank L., Cherokee, Kans. Bale-tie machine. No. 1,000,866; Aug. 15; Sp. p. 3553; Gaz. vol. 169; p. 639.
Webster, George A., assignor to Star Brass Manufacturing Company, Boston, Mass. Valve. No. 1,004,320; Sept. 26; Sp. p. 4703; Gaz. vol. 170; p. 831.
Webster, George W., Dayton, Va. Cultivator. No. 990,024; Apr. 18; Sp. p. 3708; Gaz. vol. 165; p. 643.
Webster, Harry G., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 999,927; Aug. 8; Sp. p. 1469; Gaz. vol. 169; p. 279.
Webster, Harry G., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone system. No. 1,009,813; Nov. 28; Sp. p. 4819; Gaz. vol. 172; p. 873.
Webster, Ira J., Haverhill, Mass. Heel-assembling machine. No. 1,012,306; Dec. 19; Sp. p. 4288; Gaz. vol. 173; p. 736.
Webster, John A., New York, N. Y. Coin vending-machine. No. 1,005,382; Oct. 10; Sp. p. 1767; Gaz. vol. 171; p. 315.
Webster, John E., Pittsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Gear-case. No. 985,481; Feb. 28; Sp. p. 4849; Gaz. vol. 163; p. 860.
Webster, John E., Pittsburg, Pa., assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburg, Pa. Resilient driving connection. No. 993,570; May 30; Sp. p. 5883; Gaz. vol. 166; p. 1072.
Webster, John E., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Armature-winding for electric motors. No. 999,928; Aug. 8; Sp. p. 1472; Gaz. vol. 169; p. 279.
Webster, Ralph W., London, England. Bottle-cap remover. No. 1,009,873; Nov. 28; Sp. p. 4944; Gaz. vol. 172; p. 893.
Webster, Lewis E., Wilkes-Barre, Pa. Office and door indicator. No. 995,746; June 20; Sp. p. 3603; Gaz. vol. 167; p. 633.
Webster, Moses N., Louisville, Ky., assignor of one-half to J. L. Moser. Climbing device. No. 1,004,547; Sept. 26; Sp. p. 5165; Gaz. vol. 170; p. 908.
Webster, Thomas L., Mount Carmel, Pa. Jumping-rope. No. 982,555; Jan. 24; Sp. p. 5248; Gaz. vol. 162; p. 905.
Webster, Walter L., New Haven, Conn. Cutter and trimmer. No. 1,009,203; Nov. 21; Sp. p. 3494; Gaz. vol. 172; p. 616.
Webster, William, London, Ontario, Canada, assignor, by mesne assignments, to Warren Featherbone Company of Michigan, Three Oaks, Mich. Mechanism for the manufacture of cord from quill substance or strips. No. 982,322; Jan. 24; Sp. p. 4754; Gaz. vol. 162; p. 822.
Webster, William, London, Ontario, Canada, assignor, by mesne assignments, to Warren Featherbone Company of Michigan, Three Oaks, Mich. Machine for manufacturing featherbone blade. No. 982,323; Jan. 24; Sp. p. 4756; Gaz. vol. 162; p. 823.
Webster, William, London, Ontario, Canada, assignor, by mesne assignments, to Warren Featherbone Company of Michigan, Three Oaks, Mich. Machine for manufacturing featherbone blade. No. 982,324; Jan. 24; Sp. p. 4759; Gaz. vol. 162; p. 824.
Weck, Edward, New York, N. Y. Stiffener for razors. No. 996,382; June 27; Sp. p. 5034; Gaz. vol. 167; p. 886.
Weck, Elmer E., assignor to American Cutlery Company, Chicago, Ill. Weighing-scale. No. 993,005; May 23; Sp. p. 4667; Gaz. vol. 166; p. 851.
Wedderburn, George, Vienna, Va. Gas-lamp. No. 989,092; Apr. 11; Sp. p. 1687; Gaz. vol. 165; p. 293.
Weddington, William H., Lankershim, Cal. Rotary engine. No. 995,505; June 20; Sp. p. 3067; Gaz. vol. 167; p. 547.
Wedekind & Co., G. m. b. H., R. (See Iljinsky, Michael, assignor.)
Wedekind & Co. G. m. b. H., R. (See Meyer, Franz, assignor.)
Wedge, Utley, Ardmore, Pa. Condenser for vapors and gases. No. 1,012,487; Dec. 19; Sp. p. 4634; Gaz. vol. 173; p. 795.
Wedge, Utley, Ardmore, Pa. Apparatus for purifying furnace-gases. No. 1,012,488; Dec. 19; Sp. p. 4636; Gaz. vol. 173; p. 795.
Wedge, Utley, Ardmore, assignor to The Furnace Patent Company, Philadelphia, Pa. Stirring device for furnaces. No. 980,717; Jan. 3; Sp. p. 1166; Gaz. vol. 162; p. 186.
Wedler, C. R., *et al.* (See Clarke, John S., assignor.)
Weed, Harry F. (See Sanderson, William, assignor.)
Weedon, Chancellor B., Richardsville, Va. Flooring nail-set. No. 1,002,102; Aug. 29; Sp. p. 6188; Gaz. vol. 169; p. 1119.
Wechunt, Robert S., Morgan, Tex. Vehicle felly and tire holder. No. 981,507; Jan. 10; Sp. p. 3012; Gaz. vol. 162; p. 491.
Weekes, Amos L., Harpenden, England. Fuse-switch. No. 998,435; July 18; Sp. p. 3998; Gaz. vol. 168; p. 709.
Weeks, Charles A., Philadelphia, Pa. Method of and apparatus for making metal articles. No. 985,753; Feb. 28; Sp. p. 5435; Gaz. vol. 163; p. 953.
Weeks, Ella L. (See Weeks, Nelson and W. H., assignors.)
Weeks, Frank A., Plainfield, N. J., assignor to Edward Kimpton Company, New York, N. Y. Paper drinking-cup. No. 1,002,346; Sept. 5; Sp. p. 390; Gaz. vol. 170; p. 55.

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Weeks, Nelson, Richmond Hill, N. Y., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Cluster lamp-socket. No. 992,306; May 16; Sp. p. 3174; Gaz. vol. 166; p. 577.
Weeks, Nelson and W. H.; said Nelson Weeks assignor to E. L. Weeks, New York, N. Y. Resilient lamp-socket. No. 991,185; May 2; Sp. p. 760; Gaz. vol. 166; p. 129.
Weeks, Reuben W. (See Bair, John P., assignor.)
Weeks, Rubin W., *et al.* (See Bair, George R., assignor.)
Weeks, Walter H. (See Weeks, Nelson and W. H.)
Weems, Charles F., Mutual, Okla. Corn-gatherer. No. 1,011,537; Dec. 12; Sp. p. 2562; Gaz. vol. 173; p. 434.
Weener, Jacob, and S. W. Gordon, Newark, N. J., assignors to The American Advertograph Co. Advertising device. No. 985,383; Feb. 28; Sp. p. 4594; Gaz. vol. 163; p. 824.
Weens, Peter, Oldham, S. D. Combination clothes basket and drainer. No. 1,007,165; Oct. 31; Sp. p. 5769; Gaz. vol. 171; p. 1055.
Weerts, Eilert, Wentworth, S. D. Double-disk friction drive mechanism. No. 1,002,477; Sept. 5; Sp. p. 675; Gaz. vol. 170; p. 98.
Wefer, Wilhelm, Ufer, near Vogelsang, Germany. Street-sweeper. No. 1,006,611; Oct. 24; Sp. p. 4545; Gaz. vol. 171; p. 810.
Wege, Ernest F., La Crosse, Wis. Brick-mold. No. 996,174; June 27; Sp. p. 4568; Gaz. vol. 167; p. 815.
Wege, Ernest F., La Crosse, Wis. Brick-machine. No. 996,175; June 27; Sp. p. 4569; Gaz. vol. 167; p. 816.
Wege, Peter M., Marietta, Ohio. Walled sheet-metal structure. No. 993,484; May 30; Sp. p. 5696; Gaz. vol. 166; p. 1042.
Wege, Peter M., assignor to The Safe-Cabinet Company, Marietta, Ohio. Door or wall of sheet metal. No. 993,483; May 30; Sp. p. 5695; Gaz. vol. 166; p. 1042.
Wege, Peter M., assignor to The Safe Cabinet Company, Marietta, Ohio. Walled sheet-metal structure. No. 993,627; May 30; Sp. p. 6008; Gaz. vol. 166; p. 1092.
Wege, Peter M., Marietta, Ohio, assignor to The Safe-Cabinet Company. Metallic structure. No. 999,929; Aug. 8; Sp. p. 1474; Gaz. vol. 169; p. 280.
Wegefarth, Arthur. (See Stineman, William H. H., assignor.)
Wegener, Carl, Berlin, Germany. Furnace. No. 986,881; Mar. 14; Sp. p. 2395; Gaz. vol. 164; p. 414.
Wegner, Oswald, Dowagiac, Mich. Stove door or window. No. 1,009,814; Nov. 28; Sp. p. 4833; Gaz. vol. 172; p. 874.
Wegusen, Abraham S., Grand Rapids, Mich. Skirt-marker. No. 1,004,120; Sept. 26; Sp. p. 4295; Gaz. vol. 170; p. 764.
Wehmann, E. E. (See Adams, Charles B., assignor.)
Wehmiller, Alfred H., and J. W. Dawson, assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo. Bottle-washing machine. No. 981,960; Jan. 17; Sp. p. 4015; Gaz. vol. 162; p. 670.
Wehmiller, Alfred H., and J. W. Dawson, assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo. Mechanism for closing covers of pasteurizer-baskets. No. 981,961; Jan. 17; Sp. p. 4018; Gaz. vol. 162; p. 670.
Wehmiller, Alfred H., and J. W. Dawson, assignors to Barry-Wehmiller Machinery Company, St. Louis, Mo. Bottle-soaking machine. No. 981,962; Jan. 17; Sp. p. 4019; Gaz. vol. 162; p. 670.
Wehner, George A., Savannah, Ga. Game apparatus. No. 985,561; Feb. 28; Sp. p. 5012; Gaz. vol. 163; p. 887.
Wehrlin, Daniel, assignor to La Continentale Fixator, Paris, France. Safety belt-shifter. No. 988,918; Apr. 4; Sp. p. 1309; Gaz. vol. 165; p. 211.
Weiberg, Conrad L., assignor of one-half to A. Hesselbacher, Detroit, Mich. Manufacturing fiber pulp. No. 981,042; Jan. 10; Sp. p. 1988; Gaz. vol. 162; p. 328.
Weicher, Henry A., Denver, assignor of one-half to J. C. Reagan, Whitepine, Colo. Tightening and supporting means for wire-rope tramways. No. 997,526; July 11; Sp. p. 1924; Gaz. vol. 168; p. 345.
Weickel, Henry, and R. K. Morse, Milwaukee, assignors, by mesne assignments, to Pawling and Harnischfeger Company, West Milwaukee, Wis. Hoisting and conveying apparatus. No. 992,307; May 16; Sp. p. 3177; Gaz. vol. 166; p. 577.
Weicker, William, assignor to Porzellanfabrik Kahla, Filiale Hermsdorf Klosterlausnitz, Hermsdorf, Germany. Insulator. No. 992,462; May 16; Sp. p. 3504; Gaz. vol. 166; p. 631.
Weidel, Joseph A., St. Louis, Mo. Drafting-plate. No. 981,043; Jan. 10; Sp. p. 1991; Gaz. vol. 162; p. 328.
Weidensall, Edward J. (See Holliday, Weidensall, and Krebs.)
Weidmann Silk Dyeing Company. (See Meister, Otto, assignor.)
Weierhauser, Henry J., assignor of one-half to A. C. McDaniel and one-half to W. P. Lobban, San Antonio, Tex. Calculating-yardstick. No. 986,661; Mar. 14; Sp. p. 1927; Gaz. vol. 164; p. 340.
Weifenbach, Philip, Kaukauna, Wis. Egg-handling device. No. 987,780; Mar. 28; Sp. p. 4270; Gaz. vol. 164; p. 779.
Weigand, Henry, Aurora, Nebr. Plow. No. 1,012,307; Dec. 19; Sp. p. 4290; Gaz. vol. 173; p. 736.
Weigel, Arnold A., assignor to E. S. Woods, Chicago, Ill. Antifriction-bearing. No. 1,010,710; Dec. 5; Sp. p. 678; Gaz. vol. 173; p. 109.
Weigel, Harry L., Hazleton, Pa. Alarm-regulator. No. 983,661; Feb. 7; Sp. p. 872; Gaz. vol. 163; p. 139.
Weigert, Oscar L., G. G. Graham, and G. F. Ullrich, Missoula, Mont. Non-refillable bottle. No. 982,325; Jan. 24; Sp. p. 4762; Gaz. vol. 162; p. 824.
Weighton, John. (See Mendenhall and Wonsmos, assignors.)
Weigle, Irven J., St. Marys, Pa. Shoe-blacking machine. No. 983,525; Feb. 7; Sp. p. 568; Gaz. vol. 163; p. 91.
Weikel, Earnest E., administrator. (See Weikel, Wilson.)
Weikel, Wilson, deceased; E. E. Weikel, Middletown, Ohio, administrator. Protective means for safes. No. 994,046; May 30; Sp. p. 6877; Gaz. vol. 166; p. 1235.
Weikert, Christ, Muscatine, Iowa. Planter attachment. No. 998,060; July 18; Sp. p. 3169; Gaz. vol. 168; p. 575.
Weil, Charles L., assignor to Diamond Crystal Salt Company, St. Clair, Mich. Means for providing cattle with salt. No. 1,009,361; Nov. 21; Sp. p. 3877; Gaz. vol. 172; p. 674.
Weil, Edgar E. (See Lincoln and Weil.)
Weil, Joseph W., Cincinnati, Ohio. Molding-machine. No. 988,919; Apr. 4; Sp. p. 1311; Gaz. vol. 165; p. 211
Weil, Richard, Frankfort-on-the-Main, Germany. Tannin-silver-albumen compound. No. 982,910; Jan. 31; Sp. p. 6003; Gaz. vol. 162; p. 1052.
Weil, Sydney S., San Francisco, Cal., assignor to State Sales Company. Igniting-plug for volatile containers. No. 1,007,996; Nov. 7; Sp. p. 768; Gaz. vol. 172; p. 121.
Weiland, Alfred, Philadelphia, Pa. Carbureter. No. 1,005,491; Oct. 10; Sp. p. 2001; Gaz. vol. 171; p. 352.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Greenish-blue triphenylmethane dye. No. 998,139; July 18; Sp. p. 3345; Gaz. vol. 168; p. 603.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Pentachlorobenzaldehyde. No. 998,140; July 18; Sp. p. 3346; Gaz. vol. 168; p. 603.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Triphenylmethane dye. No. 1,004,609; Oct. 3; Sp. p. 137; Gaz. vol. 171; p. 24.
Weiler, Max, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Blue triphenylmethane dyestuff. No. 1,004,610; Oct. 3; Sp. p. 137; Gaz. vol. 171; p. 24.
Weiler, Roscoe T., Reading, Pa. Envelop. No. 999,353; Aug. 1; Sp. p. 320; Gaz. vol. 169; p. 56.
Weill, André, Brussels, Belgium. Apparatus for molding automatically ceramic tiles with flanged edges for embedment in plaster. No. 1,005,383; Oct. 10; Sp. p. 1769; Gaz. vol. 171; p. 316.
Weimer, Andrew M., North Mankato, Minn. Surveying instrument. No. 994,665; June 6; Sp. p. 1195; Gaz. vol. 167; p. 194.
Weinbeer, Gregor, assignor to Nürnberger Mechanische Grünmalzwenderanlagen G. m. b. H., Nuremberg, Germany. Malt-turning apparatus. No. 991,916; May 9; Sp. p. 2320; Gaz. vol. 166; p. 412.
Weinberger, Bernard, New York, N. Y. Fender for street-cars. No. 1,009,607; Nov. 21; Sp. p. 4397; Gaz. vol. 172; p. 758.
Weinbrenner, Julius, Thann, Germany. Driving mechanism of ring-spinning machines. No. 1,012,946; Dec. 26; Sp. p. 5697; Gaz. vol. 173; p. 999.
Weiner, Charles, Bayonne, N. J. Clothes-line support. No. 998,061; July 18; Sp. p. 3170; Gaz. vol. 168; p. 575.
Weingardt, Peter, Emerson, Nebr. Sash-hanger. No. 980,577; Jan. 3; Sp. p. 873; Gaz. vol. 162; p. 140.
Weingärtner, Eduard, Leipzig-Plagwitz, Germany. Ruling-machine. No. 1,008,094; Nov. 7; Sp. p. 960; Gaz. vol. 172; p. 154.
Weingärtner, Edward, Englewood, N. J., assignor to The Arabol Manufacturing Company, New York, N. Y. Laundry starch. No. 984,330; Feb. 14; Sp. p. 2344; Gaz. vol. 163; p. 396.
Weinkauf, Albert. (See Steinmassl, John, assignor.)
Weinkauff, Jacob, Jr., Peoria, Ill. Valve. No. 1,005,384; Oct. 10; Sp. p. 1771; Gaz. vol. 171; p. 316.
Weinland, Henry F., assignor to The Lagonda Manufacturing Company, Springfield, Ohio. Tube-cleaner. No. 1,000,060; Aug. 8; Sp. p. 1755; Gaz. vol. 169; p. 324.
Weinreich, Richard, Burnside, Ill. Post-digger attachment. No. 1,010,548; Dec. 5; Sp. p. 319; Gaz. vol. 173; p. 51.
Weinstein, Henry, Cleveland, Ohio. Tooth-brush. No. 995,006; May 23; Sp. p. 4670; Gaz. vol. 166; p. 852.
Weinstein, Saul, Paterson, N. J. Window attachment. No. 986,662; Mar. 14; Sp. p. 1932; Gaz. vol. 164; p. 340.
Weinstock, Davis, New York, N. Y. Display-case. No. 991,571; May 9; Sp. p. 1604; Gaz. vol. 166; p. 295.
Weinstock, Davis, New York, N. Y. Folding display-case. No. 1,008,574; Nov. 14; Sp. p. 2149; Gaz. vol. 172; p. 366.
Weintraub, Ezechiel, Schenectady, N. Y., assignor to General Electric Company. Treatment of refractory materials. No. 997,879; July 11; Sp. p. 2733; Gaz. vol. 168; p. 469.

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Weintraub, Ezechiel, Schenectady, N. Y., assignor to General Electric Company. Treatment of refractory materials. No. 997,883; July 11; Sp. p. 2742; Gaz. vol. 168; p. 470.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Treatment of refractory materials. No. 997,880; July 11; Sp. p. 2736; Gaz. vol. 168; p. 469.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Electric furnace. No. 997,882; July 11; Sp. p. 2740; Gaz. vol. 168; p. 470.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Electrolytic meter. No. 1,006,612; Oct. 24; Sp. p. 4547; Gaz. vol. 171; p. 811.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Electrode. No. 1,009,608; Nov. 21; Sp. p. 4398; Gaz. vol. 172; p. 758.
Weintraub, Ezechiel, Lynn, Mass., assignor to General Electric Company. Lightning-arrester. No. 1,011,538; Dec. 12; Sp. p. 2564; Gaz. vol. 173; p. 434.
Weintz, Jacob, Cleveland, Ohio. Blow-torch. No. 1,006,034; Oct. 17; Sp. p. 3205; Gaz. vol. 171; p. 575.
Weintz, Jacob, assignor to The Strong, Carlisle & Hammond Company, Cleveland, Ohio. Artificial-gas burner. No. 986,663; Mar. 14; Sp. p. 1933; Gaz. vol. 164; p. 340.
Weinwurm, Stephan, Stuttgart, Germany, assignor, by mesne assignments, to C. B. Cottrell & Sons Company, Jersey City, N. J. Making ready printing-plates. No. 996,959; July 4; Sp. p. 748; Gaz. vol. 168; p. 123.
Weippert, Edmund D. (See Cheshire and Weippert.)
Weir Frog Company, The. (See Goldsmith and Metzger, assignors.)
Weir, James W., assignor to The Housatonic Machine and Tool Company, Bridgeport, Conn. Head for rubber-straining machines. No. 1,007,016; Oct. 24; Sp. p. 5408; Gaz. vol. 171; p. 948.
Weis, Andrew L. (See Weis, William C. and A. L.)
Weis, John P., Nyack, N. Y. Thread-controlling mechanism for sewing-machines. No. 991,399; May 2; Sp. p. 1221; Gaz. vol. 166; p. 204.
Weis, John P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Overedging sewing-machine. No. 990,410; Apr. 25; Sp. p. 4587; Gaz. vol. 165; p. 808.
Weis, John P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Presser-foot mechanism for sewing-machines. No. 990,614; Apr. 25; Sp. p. 5043; Gaz. vol. 165; p. 878.
Weis, John P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Stitch-forming mechanism. No. 991,917; May 9; Sp. p. 2323; Gaz. vol. 166; p. 413.
Weis, John P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Trimming mechanism for sewing-machines. No. 996,383; June 27; Sp. p. 5035; Gaz. vol. 167; p. 887.
Weis, John P., Brooklyn, N. Y., assignor, by mesne assignments, to Metropolitan Sewing Machine Company. Looper for sewing-machines. No. 1,000,134; Aug. 8; Sp. p. 1949; Gaz. vol. 169; p. 351.
Weis, John P., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Presser-foot mechanism for sewing-machines. No. 990,413; Apr. 25; Sp. p. 4601; Gaz. vol. 165; p. 810.
Weis, John P., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Looper mechanism for sewing-machines. No. 990,414; Apr. 25; Sp. p. 4604; Gaz. vol. 165; p. 810.
Weis, John P., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Shiftable work-plate for sewing-machines. No. 992,526; May 16; Sp. p. 3649; Gaz. vol. 166; p. 655.
Weis, John P., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Heel-seam for shoes. No. 1,011,539; Dec. 12; Sp. p. 2565; Gaz. vol. 173; p. 435.
Weis, John P., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Pad-sewing machine. No. 1,012,775; Dec. 26; Sp. p. 5253; Gaz. vol. 173; p. 941.
Weis, John P., Nyack, assignor to L. N. Littauer, Gloversville, N. Y. Folder or binder for sewing-machines. No. 1,012,776; Dec. 26; Sp. p. 5284; Gaz. vol. 173; p. 942.
Weis, John P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Work-controlling mechanism. No. 990,411; Apr. 25; Sp. p. 4593; Gaz. vol. 165; p. 809.
Weis, John P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Pull-off mechanism for sewing-machines. No. 990,412; Apr. 25; Sp. p. 4597; Gaz. vol. 165; p. 809.
Weis, John P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Thread-cutting attachment for sewing-machines. No. 1,010,830; Dec. 5; Sp. p. 957; Gaz. vol. 173; p. 150.
Weis, John P., assignor to Metropolitan Sewing Machine Company, Nyack, N. Y. Stitch-forming mechanism for sewing-machines. No. 1,010,831; Dec. 5; Sp. p. 960; Gaz. vol. 173; p. 150.
Weis, John P., and L. Krug, assignors to Metropolitan Sewing Machine Company, Nyack, N. Y. Folder. No. 1,003,834; Sept. 19; Sp. p. 3572; Gaz. vol. 170; p. 636.
Weis Manufacturing Company, The. (See Weis, William C. and A. L., assignors.)
Weis-Van Wormer Company, The. (See Van Wormer, John R., assignor.)
Weis, William, Perham, Minn. Feeder for threshing-machines. No. 992,308; May 16; Sp. p. 3181; Gaz. vol. 166; p. 578.
Weis, William, Perham, Minn. Feeder for threshing-machines. (Reissue.) No. 13,242; May 16; Sp. p. 4096; Gaz. vol. 166; p. 732.
Weis, William C. and A. L., assignors to The Weis Manufacturing Company, Monroe, Mich. File-box. No. 991,255; May 2; Sp. p. 912; Gaz. vol. 166; p. 154.
Weisel, Michael L., Camden, N. J. Garden-tool. No. 999,930; Aug. 8; Sp. p. 1477; Gaz. vol. 169; p. 280.
Weisenstein, Simon P., Sharpsburg, Pa. Air-filter. No. 991,572; May 9; Sp. p. 1605; Gaz. vol. 166; p. 296.
Weisfeld, Harry A. and J., New York, N. Y. Fire-escape. No. 1,012,947; Dec. 26; Sp. p. 5700; Gaz. vol. 173; p. 1000.
Weisfeld, Jacob. (See Weisfeld, Harry A. and J.)
Weisman, H. A., *et al.* (See Lambert, Jay S., assignor.)
Weiss, Albert T., and P. H. Yawman, assignors to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Follower-block for paper-filing devices. No. 983,961; Feb. 14; Sp. p. 1536; Gaz. vol. 163; p. 270.
Weiss, Alfred H., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone system. No. 986,787; Mar. 14; Sp. p. 2177; Gaz. vol. 164; p. 380.
Weiss, Alfred H., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Key-switch. No. 1,005,910; Oct. 17; Sp. p. 2935; Gaz. vol. 171; p. 532.
Weiss, Arthur J., West Orange, assignor to E. A. McCoy, East Orange, N. J. Carbureter. No. 993,210; May 23; Sp. p. 5099; Gaz. vol. 166; p. 919.
Weiss, George, assignor to C. H. Wacker, Chicago, Ill. Machine for forming sections of metal barrels. No. 1,000,468; Aug. 15; Sp. p. 2677; Gaz. vol. 169; p. 497.
Weiss, George, assignor to The 20th Century Machinery Company, Chicago, Ill. Bottle-washing machine. No. 1,003,223; Sept. 12; Sp. p. 2284; Gaz. vol. 170; p. 393.
Weiss, George W., Brooklyn, N. Y. Metal-cutting mechanism. No. 1,003,557; Sept. 19; Sp. p. 2970; Gaz. vol. 170; p. 542.
Weiss, Karl, Meissen, Germany. Drying apparatus. No. 991,679; May 9; Sp. p. 1852; Gaz. vol. 166; p. 335.
Weiss, Louis T., Brooklyn, N. Y. Tool-holder and tool-post. No. 989,674; Apr. 18; Sp. p. 2969; Gaz. vol. 165; p. 523.
Weiss, Ludwig, Barmen, Germany. Producing sound metal castings. No. 982,326; Jan. 24; Sp. p. 4764; Gaz. vol. 162; p. 825.
Weiss, Ludwig, Munich, Germany. Rendering vitreous compounds turbid. No. 1,001,789; Aug. 29; Sp. p. 5531; Gaz. vol. 169; p. 1016.
Weiss, Max, assignor to Air Torpedo Company, Chicago, Ill. Sound-producing device. No. 985,310; Feb. 28; Sp. p. 4450; Gaz. vol. 163; p. 800.
Weiss, Robert, Kingersheim, Germany. Treating textile materials. No. 986,332; Mar. 7; Sp. p. 1201; Gaz. vol. 164; p. 194.
Weissenthanner, Alfred L., New York, N. Y. Sheet-metal stopper for bottles, jars, &c. No. 983,332; Feb. 7; Sp. p. 164; Gaz. vol. 163; p. 29.
Weitershausen, Edward A., and H. F. Ottenbach, Pittsburg, Pa. Indexing mechanism. No. 1,001,484; Aug. 22; Sp. p. 4878; Gaz. vol. 169; p. 880.
Weitzel, Jacob F., Columbus, Ohio. Sheet-metal door. No. 999,533; Aug. 1; Sp. p. 671; Gaz. vol. 169; p. 115.
Weitzenhoffer, Bernat, Eperies, Austria-Hungary. Stench-trap. No. 1,002,792; Sept. 5; Sp. p. 1350; Gaz. vol. 170; p. 205.
Welwoda, Mathias, assignor to G. W. Stevens, New York, N. Y. Carbureter. No. 1,009,121; Nov. 21; Sp. p. 3321; Gaz. vol. 172; p. 587.
Weizmann, Charles. (See Perkin and Weizmann.)
Welch, Anis L. (See Gilman and Welch.)
Welch Automatic Trimmer Co. (See Welch, Thomas C., assignor.)
Welch, Gustin, *et al.* (See Mead, John W., assignor.)
Welch, James A., St. Paul, Minn. Toy. No. 1,010,549; Dec. 5; Sp. p. 321; Gaz. vol. 173; p. 51.
Welch, James R. (See Harris and Welch.)
Welch, Lyman W., Grand Rapids, Mich. Display-rack. No. 989,740; Apr. 18; Sp. p. 3108; Gaz. vol. 165; p. 546.
Welch, Lyman W., Grand Rapids, Mich. Display apparatus. No. 991,918; May 9; Sp. p. 2325; Gaz. vol. 166; p. 413.
Welch, Marion F., Hollis, Kans. Derailment-guard. No. 995,309; June 13; Sp. p. 2600; Gaz. vol. 167; p. 450.
Welch, Michael E., North Chicago, Ill. Molding-machine. No. 981,903; Jan. 17; Sp. p. 3853; Gaz. vol. 162; p. 649.
Welch, Thomas C., Chicago, Ill., assignor to Welch Automatic Trimmer Co. Book-trimming machine. No. 1,003,679; Sept. 19; Sp. p. 3248; Gaz. vol. 170; p. 585.
Welch, Walter H., assignor to Harvey Frost & Company, Limited, London, England. Rubber-joint-making instrument. No. 1,009,002; Nov. 14; Sp. p. 3069; Gaz. vol. 172; p. 510.
Welcker, Rudolph. (See Clarke and Welcker.)
Welcome, Earnest T., New York, N. Y. Sewage-disposal system. No. 980,463; Jan. 3; Sp. p. 615; Gaz. vol. 162; p. 101.

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Welden, Edson F., Demster, N. Y. Combined step and extension ladder. No. 1,010,832; Dec. 5; Sp. p. 966; Gaz. vol. 173; p. 151.
Welden, Frederick S., New York, N. Y. Device for tooth restoration. No. 996,818; July 4; Sp. p. 449; Gaz. vol. 168; p. 74.
Welder, John J., Sr., *et al.* (See Morris, Leopold, assignor.)
Weldon, Richard E. (See Pittman, Reinhart W., assignor.)
Weldon, Thomas J., assignor of one-half to J. E. Sharp, Milwaukee, Wis. Reinforcement for manholes for boilers and pressure-tanks. No. 999,613; Aug. 1; Sp. p. 819; Gaz. vol. 169; p. 143.
Weleski, Martin. (See Susol, Emeric, assignor.)
Welfle, Joseph, and F. Schuler, Hamler, Ohio. Wagon-rack. No. 983,333; Feb. 7; Sp. p. 165; Gaz. vol. 163; p. 29.
Welin Davit and Lane & De Groot Company. (See Lundin, Andreas P., assignor.)
Welin Davit and Lane & De Groot Company. (See Sivard, Einar L. M., assignor.)
Welin, Peter, Worcester, Mass., assignor, by mesne assignments, to Krell Auto-Grand Piano Co. of America, Connersville, Ind. Valve mechanism for pneumatic musical instruments. No. 990,177; Apr. 18; Sp. p. 4023; Gaz. vol. 165; p. 693.
Welin, Peter, and H. Utterberg, Newcastle, assignors to The Krell Auto-Grand Piano Co. of America, Connersville, Ind. Regulating mechanism for automatic musical instruments. No. 999,281; Aug. 1; Sp. p. 166; Gaz. vol. 169; p. 31.
Welker, Elmer R., Kansas City, Mo. Window-sash fastener. No. 1,003,386; Sept. 12; Sp. p. 2615; Gaz. vol. 170; p. 449.
Weller, Samuel A. (See Thomas, John A., assignor.) (Reissue.)
Weller, William, Bonduel, Wis. Display device. No. 1,009,003; Nov. 14; Sp. p. 3072; Gaz. vol. 172; p. 510.
Welles, Richard H., assignor to The Badger Brass Manufacturing Company, Kenosha, Wis. Headlight. No. 981,044; Jan. 10; Sp. p. 1992; Gaz. vol. 162; p. 329.
Welles, Richard H., assignor to The Badger Brass Manufacturing Company, Kenosha, Wis. Headlight. No. 981,045; Jan. 10; Sp. p. 1994; Gaz. vol. 162; p. 329.
Welles, Richard H., assignor to The Badger Brass Mfg. Co., Kenosha, Wis. Lamp. No. 981,046; Jan. 10; Sp. p. 1996; Gaz. vol. 162; p. 329.
Welles, Richard H., assignor to The Badger Brass Manufacturing Company, Kenosha, Wis. Headlight. No. 989,675; Apr. 18; Sp. p. 2972; Gaz. vol. 165; p. 523.
Welles, Richard H., assignor to The Badger Brass Mfg. Co., Kenosha, Wis. Lamp. No. 997,484; July 11; Sp. p. 1837; Gaz. vol. 168; p. 331.
Wellington, Lee R. (See Grimshaw and Wellington.)
Wellington Typewriter Company. (See Kidder, Wellington P., assignor.)
Wellke, Robert N., Pasadena, Cal. Hat-pin shield. No. 1,007,166; Oct. 31; Sp. p. 5770; Gaz. vol. 171; p. 1055.
Wellman, Alexander J., assignor to The M. A. Hunt Company, Cincinnati, Ohio. Bed and seat spring. No. 987,781; Mar. 28; Sp. p. 4272; Gaz. vol. 164; p. 779.
Wellman, Harlan P., Ashland, Ky. Portable electric hand-lamp. No. 982,651; Jan. 24; Sp. p. 5425; Gaz. vol. 162; p. 936.
Wellmann, Louis P., West New York, N. J. Riding-saddle. No. 985,869; Mar. 7; Sp. p. 230; Gaz. vol. 164; p. 38.
Wellman-Seaver-Morgan Company, The. (See Hulett, George H., assignor.)
Wells Brothers Company. (See Wells, Frank O., assignor.)
Wells, Byron B., assignor to The Standard Machine Manufacturing Company, Columbus, Ohio. Cash-register. No. 996,176; June 27; Sp. p. 4571; Gaz. vol. 167; p. 816.
Wells, Clarence L., Troy, and C. R. Reynolds, Nassau, N. Y., assignors to Fiber Products Company. Apparatus for expressing moisture and forming fabricated sheets. No. 996,819; July 4; Sp. p. 451; Gaz. vol. 168; p. 75.
Wells, Daniel D., Jacksonville, Fla. Propeller for flying-machines or marine vessels. No. 997,884; July 11; Sp. p. 2744; Gaz. vol. 168; p. 470.
Wells, Edward H. (See Skinner and Wells.)
Wells, Elmer J., Grinnell, Iowa. Stay-iron. No. 991,573; May 9; Sp. p. 1607; Gaz. vol. 166; p. 296.
Wells, Elnora M., administratrix. (See Wells and Chaurette.)
Wells, Frank O., assignor to Wells Brothers Company, Greenfield, Mass. Chuck attachment for machine-tools. No. 987,659; Mar. 21; Sp. p. 3980; Gaz. vol. 164; p. 709.
Wells, Frederic E., Greenfield, Mass. Thread-cutting die. No. 1,007,317; Oct. 31; Sp. p. 6092; Gaz. vol. 171; p. 1110.
Wells, George E., Dayton, Ohio. Projectile. No. 982,402; Jan. 24; Sp. p. 4918; Gaz. vol. 162; p. 852.
Wells, Harold S. (See Fortune and Wells.)
Wells, Harvey J., Peru, Ind. Clutch. No. 993,007; May 23; Sp. p. 4671; Gaz. vol. 166; p. 852.
Wells, Jesse C., Brooklyn, N. Y. Faucet. No. 980,718; Jan. 3; Sp. p. 1169; Gaz. vol. 162; p. 186.
Wells, Joel C., Southbridge, Mass. Eyeglasses and spectacles. No. 1,001,568; Aug. 22; Sp. p. 5043; Gaz. vol. 169; p. 909.
Wells, Joel C., assignor to American Optical Company, Southbridge, Mass. Eyeglass and spectacle rim. No. 989,218; Apr. 11; Sp. p. 1945; Gaz. vol. 165; p. 336.
Wells, John, Farmersville, Tex. Swimming device. No. 993,927; May 30; Sp. p. 6623; Gaz. vol. 166; p. 1194.
Wells, Lawrence O., Bonne Terre, Mo. Scoop for measuring plastic material. No. 992,828; May 23; Sp. p. 4277; Gaz. vol. 166; p. 789.
Wells, Moses, East Templeton, Mass. Rail-scraper. No. 994,964; June 13; Sp. p. 1921; Gaz. vol. 167; p. 337.
Wells, Octavius E., deceased, (E. M. Wells, administratrix,) and E. Chaurette, Chicago, Ill.; said Chaurette assignor to said Wells. Planing-machine. No. 1,004,834; Oct. 3; Sp. p. 615; Gaz. vol. 171; p. 101.
Wells, Sherman F., Eden Prairie, Minn. Storm-window adjuster. No. 994,224; June 6; Sp. p. 256; Gaz. vol. 167; p. 44.
Wells, Walter W., Clyde, Ohio. Explosive-engine. No. 1,001,485; Aug. 22; Sp. p. 4882; Gaz. vol. 169; p. 881.
Wells, William C., Waterbury, Conn. Cuspidor. No. 994,352; June 6; Sp. p. 515; Gaz. vol. 167; p. 89.
Welsbach, Carl A. von, Vienna, Austria-Hungary. Manufacture of electric filaments. No. 1,001,105; Aug. 22; Sp. p. 4130; Gaz. vol. 169; p. 756.
Welsbach Light Company. (See Litle, Thomas J., Jr., assignor.)
Welsbach Light Company. (See Lyon, Howard, assignor.)
Welsbach Light Company. (See Macbeth, Norman, assignor.)
Welsbacher, Charles A., and J. Staab, Pittsburgh, Pa. Trolley-wheel support. No. 1,008,506; Nov. 14; Sp. p. 1994; Gaz. vol. 172; p. 341.
Welsh, Charles F., Detroit, Mich. Tube-winding machine. No. 1,002,888; Sept. 12; Sp. p. 1594; Gaz. vol. 170; p. 276.
Welsh, Charles F., Detroit, Mich. Tube-winding machine. No. 1,004,121; Sept. 26; Sp. p. 4297; Gaz. vol. 170; p. 764.
Welsh, Henry W., assignor to The Avery Scale Company, North Milwaukee, Wis. Hopper. No. 987,517; Mar. 21; Sp. p. 3698; Gaz. vol. 164; p. 660.
Welsh, Henry W., assignor to The Avery Scale Company, North Milwaukee, Wis. Measuring apparatus. No. 1,011,540; Dec. 12; Sp. p. 2567; Gaz. vol. 173; p. 435.
Welsh, John, Green Bay, Wis. Shipping and dispensing package. No. 1,003,558; Sept. 19; Sp. p. 2972; Gaz. vol. 170; p. 542.
Welsh, Maurice H., Newark, N. J., assignor to Standard Electric Lamp Co. Incandescent electric lamp. No. 988,416; Apr. 4; Sp. p. 273; Gaz. vol. 165; p. 44.
Welsh, Pierre V. W., New York, N. Y. Photograph-machine. No. 1,004,122; Sept. 26; Sp. p. 4299; Gaz. vol. 170; p. 764.
Welsh, Prudence M., Longbeach, Cal. Glass-holder. No. 985,085; Feb. 21; Sp. p. 3899; Gaz. vol. 163; p. 689.
Welsh, Richard J. (See Tyler, Edgar M., assignor.)
Welsz, Clarence G., Palmyra, Mo. Portable fence-post. No. 1,008,227; Nov. 7; Sp. p. 1254; Gaz. vol. 172; p. 205.
Welte, Edwin, and K. Bockisch, Freiburg, Germany. Mechanism for regulating the expression in apparatus for playing musical instruments. No. 1,008,291; Nov. 7; Sp. p. 1392; Gaz. vol. 172; p. 226.
Welter, Adolf, Crefeld, Germany. Soap. No. 986,527; Mar. 14; Sp. p. 1636; Gaz. vol. 164; p. 291.
Welton, Frank T., assignor to The Strouse Alder & Co., New Haven, Conn. Corset. No. 987,782; Mar. 28; Sp. p. 4273; Gaz. vol. 164; p. 779.
Welton, Frank T., assignor to Strouse, Adler & Co., New Haven, Conn. Corset. No. 998,062; July 18; Sp. p. 3172; Gaz. vol. 168; p. 575.
Welton, John A., Canal Dover, Ohio. Apparatus for feeding pulverized fuel. No. 993,928; May 30; Sp. p. 6624; Gaz. vol. 166; p. 1194.
Welton, John A., Canal Dover, Ohio. Apparatus for feeding fine fuel. No. 993,929; May 30; Sp. p. 6626; Gaz. vol. 166; p. 1194.
Welty, Elmer J., *et al.* (See Ringer, John H., assignor.)
Welty, William F., Cumberland, N. Mex. Clothes-line. No. 995,506; June 20; Sp. p. 3070; Gaz. vol. 167; p. 547.
Wemer, John, New York, N. Y. Agitator. No. 1,002,347; Sept. 5; Sp. p. 392; Gaz. vol. 170; p. 55.
Wemple, Leland E., assignor of one-half to Hoyt Metal Company, St. Louis, Mo. Refining lead and lead alloys. No. 1,006,323; Oct. 17; Sp. p. 3872; Gaz. vol. 171; p. 677.
Wende, Hermann A. (See Hanrahan and Wende.)
Wenderoth, Otto H., New York, N. Y. Gas-holder. No. 984,869; Feb. 21; Sp. p. 3490; Gaz. vol. 163; p. 616.
Wendling, Frederick, New York, N. Y. Filling device. No. 987,518; Mar. 21; Sp. p. 3700; Gaz. vol. 164; p. 661.
Wendling-Hoch Adding Machine Company. (See Hoch, Adam, assignor.)
Wendt, Fred H., assignor of one-third to E. Crotteau, Marshfield, Wis. Adjusting device for car-couplings. No. 1,007,997; Nov. 7; Sp. p. 769; Gaz. vol. 172; p. 121.

Wendt, Henry D., Hoboken, N. J. Removable calk for horseshoes. No. 992,090; May 9; Sp. p. 2644; Gaz. vol. 166; p. 471.
Wendt, Reeta, Allen, Md. Folding clothes-tree. No. 983,589; Feb. 7; Sp. p. 728; Gaz. vol. 163; p. 114.
Wenger, Clayton S., Brownstown, Pa. Valve mechanism for water-wheels. No. 992,309; May 16; Sp. p. 3184; Gaz. vol. 166; p. 579.
Wenger, David M., New Holland, Pa. Gearing. No. 982,327; Jan. 24; Sp. p. 4764; Gaz, vol. 162; p. 825.
Wenger, Gottfried, Silica, W. Va. Plow. No. 986,251; Mar. 7; Sp. p. 1035; Gaz. vol. 164; p. 166.
Wenger, Milton, New Holland, Pa. Shaft-bearing. No. 1,001,486; Aug. 22; Sp. p. 4885; Gaz. vol. 169; p. 882.
Wenman, Joseph E., New Philadelphia, Ohio. Plate-lifter. No. 1,003,835; Sept. 19; Sp. p. 3577; Gaz. vol. 170; p. 636.
Wenneborg, Henry, Jr., assignor of one-half to C. A. Anderson, Springfield, Ill. Combination-tool. No. 1,009,609; Nov. 21; Sp. p. 4399; Gaz. vol. 172; p. 758.
Wensinger, Charles F., assignor to The Safe Storm Shield Co., Fremont, Ohio. Vestibule storm-shield. No. 995,933; June 20; Sp. p. 4019; Gaz. vol. 167; p. 699.
Wenston, John, Newark, N. J. Street-car. No. 986,252; Mar. 7; Sp. p. 1036; Gaz. vol. 164; p. 166.
Wentworth, Arthur M., Pittsfield, Mass., assignor to General Electric Company. Electric heater. No. 1,011,879; Dec. 12; Sp. p. 3319; Gaz. vol. 173; p. 551.
Wentworth, Barton M., Somersworth, N. H. Sleigh and bob-sled runner. No. 999,931; Aug. 8; Sp. p. 1478; Gaz. vol. 169; p. 280.
Wentworth, C. F. (See Raczka, Joseph, assignor.)
Wentworth, Herman J. (See Leighton, Willis S., assignor.)
Wentworth Manufacturing Company. (See Brown and Uhlik, assignors.)
Wentworth, Samuel J., Newport, Ky., assignor, by mesne assignments, to United Shoe Machinery Company, Paterson, N. J. Shoe-finishing machine. No. 1,010,550; Dec. 5; Sp. p. 322; Gaz. vol. 173; p. 52.
Wentzel, Louis J., Brooklyn, N. Y. Steam-engine. No. 1,009,874; Nov. 28; Sp. p. 4945; Gaz. vol. 172; p. 893.
Wentzer, Jens. (See Hall and Wentzer.)
Werber, Hermann T., Brooklyn, N. Y. Reversing-turbine. No. 996,177; June 27; Sp. p. 4575; Gaz. vol. 167; p. 816.
Werdauer Textilwerke G. m. b. H. (See Bohle, Bruno, assignor.)
Werden, Edward W., Mount Vernon, N. Y. Gummed-paper-sticking mechanism. No. 991,400; May 2; Sp. p. 1224; Gaz. vol. 166; p. 204.
Werden, Edward W., Mount Vernon, assignor of one-half to S. W. Coe, New York, N. Y. Passenger-register. No. 1,012,948; Dec. 26; Sp. p. 5703; Gaz. vol. 173; p. 1000.
Werden, Henrietta. (See Coe and Werden.)
Werline, William F., Denison, Tex. Gaff. No. 983,102; Jan. 31; Sp. p. 6426; Gaz. vol. 162; p. 1116.
Werminghaus, Henry L., *et al.* (See Barrett, Thomas A., assignor.)
Wermuth, William C., Chicago, Ill. Trough arm-sling or the like. No. 980,464; Jan. 3; Sp. p. 616; Gaz. vol. 162; p. 101.
Werndl, Ernst, Pyrach Post Garsten, near Steyr, Austria-Hungary. Steering-gear. No. 986,882; Mar. 14; Sp. p. 2399; Gaz. vol. 164; p. 415.
Werner, Charles, San Francisco, Cal., assignor to American Can Company, New York, N. Y. Can-tester. No. 983,962; Feb. 14; Sp. p. 1538; Gaz. vol. 163; p. 270.
Werner, Harry C., Wheeling, W. Va. Gas-burner. No. 1,006,324; Oct. 17; Sp. p. 3875; Gaz. vol. 171; p. 677.
Werner, John, Rochester, N. Y. Candy-coating machine. No. 991,919; May 9; Sp. p. 2328; Gaz. vol. 166; p. 414.
Werner, Lothar, Berlin, and F. Trinks, assignors to Grimme Natalis & Co., Kommandit-Gesellschaft auf Aktien, Braunschweig, Brunswick, Germany. Device for cutting paper sheets or the like. No. 984,054; Feb. 14; Sp. p. 1756; Gaz. vol. 163; p. 302.
Werner & Pfleiderer. (See Wirz, Otto, assignor.)
Wernert, Albert L., and F. C. Davison, Atlanta, Ga. Valve. No. 1,004,512; Sept. 26; Sp. p. 5094; Gaz. vol. 170; p. 897.
Wernert, Albert L., and F. C. Davison, Atlanta, Ga. Valve. No. 1,005,677; Oct. 10; Sp. p. 2441; Gaz. vol. 171; p. 419.
Wernicke, Paul, Cincinnati, Ohio. Game apparatus. No. 999,073; July 25; Sp. p. 5425; Gaz. vol. 168; p. 965.
Werrick, James Y., and P. F. Dailey, St. Paul, Minn. Burglar-trap. No. 982,911; Jan. 31; Sp. p. 6005; Gaz. vol. 162; p. 1052.
Wertenbruch, Franz, Meissen, Germany. Drying-machine. No. 986,107; Mar. 7; Sp. p. 744; Gaz. vol. 164; p. 120.
Werth, Charles F. (See Tarien and Werth.)
Werth, Federico, Milan, Italy. Apparatus for polishing tubes, rods, and the like. No. 997,167; July 4; Sp. p. 1208; Gaz. vol. 168; p. 195.
Wertheim, Anne L., London, England. Self-leveling cot, bunk, couch, and the like, for use on shipboard. No. 986,108; Mar. 7; Sp. p. 746; Gaz. vol. 164; p. 120.
Werts, Albert, Camden, N. J. Steam-trap. No. 997,885; July 11; Sp. p. 2748; Gaz. vol. 168; p. 471.
Wertz, Thomas, and C. H. L. Kistner, St. Louis, Mo. Dust-catcher for shoe-finishing machines. No. 990,086; Apr. 18; Sp. p. 3830; Gaz. vol. 165; p. 663.
Weschler, Daniel D., Milwaukee, Wis. Power-driven apparatus for emptying malt-growing compartments. No. 984,249; Feb. 14; Sp. p. 2170; Gaz. vol. 163; p. 368.
Wescott Bailey S., Elmira, N. Y. Storage tire-protector. No 981,047; Jan. 10; Sp. p. 1997; Gaz. vol. 162; p. 330.
Wescott, C. R., *et al.* (See Williams, Walter S., assignor.)
Weser, John A., New York, N. Y. Mechanical musical instrument. No. 1,010,551; Dec. 5; Sp. p. 325; Gaz. vol. 173; p. 52.
Weser, John A., New York, N. Y. Sheet-adjusting device for mechanical musical instruments. No. 1,010,552; Dec. 5; Sp. p. 329; Gaz. vol. 173; p. 53.
Wesle, Henry. (See Wesle, Herman and H.)
Wesle, Herman and H., Medford, Wis. Wagon-stake. No. 992,620; May 16; Sp. p. 3852; Gaz. vol. 166; p. 686.
Wesolowski, Adam, Pittsburg, Pa. Lock. No. 989,093; Apr. 11; Sp. p. 1689; Gaz. vol. 165; p. 294.
Wessel, Henry F., Jr., Highland, Ill. Grass-catcher for lawn-mowers. No. 986,883; Mar. 14; Sp. p. 2401; Gaz. vol. 164; p. 415.
Wessels, Louis, and J. B. Lau, Jersey City, N. J. Removable calk for horseshoes. No. 1,006,158; Oct. 17; Sp. p. 3493; Gaz. vol. 171; p. 619.
Wessinger, Henry J., Duluth, Minn. Mine-shaft lining. No. 996,178; June 27; Sp. p. 4578; Gaz. vol. 167; p. 817.
Wessinger, Paul, Portland, Oreg. Malt-kiln. No. 988,157; Mar. 28; Sp. p. 5115; Gaz. vol. 164; p. 907.
Wesson, Isaac A., Wingo, Ky. Combined fertilizer-distributer and seed-dropper. No. 991,574; May 9; Sp. p. 1608; Gaz. vol. 166; p. 296.
Wesson, Joseph H., Springfield, Mass. Automatic pistol. No. 985,482; Feb. 28; Sp. p. 4850; Gaz. vol. 163; p. 861.
West, Alonzo, and C. C. Jackman, assignors of one-third to P. E. Selby, Portsmouth, Ohio. Automatic shoe or edge wetter. No. 995,507; June 20; Sp. p. 3071; Gaz. vol. 167; p. 548.
West, Alonzo E., Portsmouth, Ohio. Amusement apparatus. No. 1,000,219; Aug. 8; Sp. p. 2134; Gaz. vol. 169; p. 380.
West, Arthur J. (See Sherman and West.)
West, Arthur J., Bethlehem, Pa. Piston packing-ring. No. 1,000,135; Aug. 8; Sp. p. 1950; Gaz. vol. 169; p. 351.
West, Augustus A., Brooklyn, N. Y. Rotary steam-engine. No. 1,006,035; Oct. 17; Sp. p. 3207; Gaz. vol. 171; p. 576.
West, Augustus A., Brooklyn, N. Y., assignor to W. H. Gatchell, Rutledge, Pa. Belt-buckle. No. 983,334; Feb. 7; Sp. p. 166; Gaz. vol. 163; p. 29.
West, Augustus A., Brooklyn, N. Y., and W. H. Gatchell, Rutledge, Pa.; said West assignor to said Gatchell. Hair-curler. No. 984,331; Feb. 14; Sp. p. 2345; Gaz. vol. 163; p. 397.
West, Carl R., Washington, Ind. Attachment for automobiles. No. 983,103; Jan. 31; Sp. p. 6428; Gaz. vol. 162; p. 1117.
West, Carl R., Washington, Ind. Attachment for automobiles. No. 986,613; Mar. 14; Sp. p. 1819; Gaz. vol. 164; p. 322.
West, Charles F., Philadelphia, Pa. Ice-creeper. No. 1,001,182; Aug. 22; Sp. p. 4275; Gaz. vol. 169; p. 780.
West, Charles G. (See Mulholland and West.)
West, Charles U. F., London, England. Cigar-case. No. 992,310; May 16; Sp. p. 3186; Gaz. vol. 166; p. 579.
West, Clifton, and E. Breuning, assignors to C. West, London, England. Magazine-firearm. No. 1,011,541; Dec. 12; Sp. p. 2572; Gaz. vol. 173; p. 435.
West, Edward H., Birmingham, Ala. Controller-clutch. No. 988,234; Mar. 28; Sp. p. 5257; Gaz. vol. 164; p. 932.
West, Edward M., assignor to Automatic Hand-Truck Company, Bridgeton, N. J. Truck. No. 990,936; May 2; Sp. p. 230; Gaz. vol. 166; p. 40.
West, Edward M., assignor to Automatic Hand-Truck Company, Bridgeton, N. J. Truck. No. 993,008; May 23; Sp. p. 4673; Gaz. vol. 166; p. 852.
West, Edwin W., assignor to Safe, Vault and Protection Company, Los Angeles, Cal. Combination safe and vault protector. No. 1,004,321; Sept. 26; Sp. p. 4705; Gaz. vol. 170; p. 832.
West Envelope Company. (See West, James, assignor.)
West, Harry H., Plymouth, Pa. Yarn-twisting attachment for knitting-machines. No. 1,006,889; Oct. 24; Sp. p. 5160; Gaz. vol. 171; p. 906.
West, Harry H., assignor to T. West, Plymouth, Pa. Knitting-machine. No. 993,807; May 30; Sp. p. 6403; Gaz. vol. 166; p. 1154.
West, Harry H., assignor to T. West, Plymouth, Pa. Openwork attachment for knitting-machines. No. 999,074; July 25; Sp. p. 5427; Gaz. vol. 168; p. 966.
West, James, assignor to West Envelope Company, Brooklyn, N. Y. Machine for forming open-end envelops. No. 1,010,833; Dec. 5; Sp. p. 967; Gaz. vol. 173; p. 151.
West, James J., assignor of one-fourth to C. A. Hackett, Akron, Ohio. Furnace. No. 990,466; Apr. 25; Sp. p. 4706; Gaz. vol. 165; p. 827.
West, John. (See Glover and West.)
West, John R., Palmer, Tex. Cultivator. No. 982,912; Jan. 31; Sp. p. 6006; Gaz. vol. 162; p. 1052.
West, John W., Braintree, Mass. Protector for tube-thread. No. 1,001,718; Aug. 29; Sp. p. 5376; Gaz. vol. 169; p. 993.

Alphabetical list of patentees—Continued.

West, Peyton, Springfield, Ohio. Vehicle cushioning device. No. 988,417; Apr. 4; Sp. p. 275; Gaz. vol. 165; p. 44.
West, Sylvester J., Selma, N. C. Camera. No. 997,886; July 11; Sp. p. 2750; Gaz. vol. 168; p. 471.
West, Thomas. (See West, Harry H., assignor.)
West, Thomas D., Cleveland, Ohio. Mold for casting chilled car-wheels or other circular objects. No. 981,904; Jan. 17; Sp. p. 3856; Gaz. vol. 162; p. 650.
West, Walter T., Kelso, Wash. Splicer. No. 1,011,685; Dec. 12; Sp. p. 2909; Gaz. vol. 173; p. 486.
West, William O., Detroit, Tex. Plow. No. 1,006,325; Oct. 17; Sp. p. 3876; Gaz. vol. 171; p. 678.
Westad, Iver J., Flaming, Minn. Rope-climbing device. No. 983,335; Feb. 7; Sp. p. 167; Gaz. vol. 163; p. 29.
Westall, William T. (See Owen, Westall, and Wallace.)
Westaway, Walter C., Rockford, assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Carbureter. No. 999,686; Aug. 1; Sp. p. 962; Gaz. vol. 169; p. 168.
Westaway, Walter C., Rockford, assignor, by mesne assignments, to Chicago Pneumatic Tool Company, Chicago, Ill. Fluid-valve. No. 1,011,686; Dec. 12; Sp. p. 2910; Gaz. vol. 173; p. 486.
Westbrook, Arthur D. (See Estell and Westbrook.)
Westbrook, Frank S., Greensboro, N. C. Canopy. No. 1,007,829; Nov. 7; Sp. p. 408; Gaz. vol. 172; p. 64.
Westburg, Arthur E., and G. H. Bates, assignors to Chautauqua Appliance Company, Jamestown, N. Y. Automatic regulator and cut-off. No. 1,010,834; Dec. 5; Sp. p. 971; Gaz. vol. 173; p. 151.
Westby, Adolph C., Porter, Minn. Beating and mixing machine. No. 1,012,489; Dec. 19; Sp. p. 4638; Gaz. vol. 173; p. 796.
Westcott, Henry P., Erie, Pa. Dirt-collector for proportional meters. No. 1,005,088; Oct. 3; Sp. p. 1102; Gaz. vol. 171; p. 186.
Westcott, Lee H., Pittsburg, Pa. Strainer for tobacco-pipes. No. 1,004,322; Sept. 26; Sp. p. 4707; Gaz. vol. 170; p. 832.
Westcott, William W., Morris Plains, N. J. Dish-washing machine. No. 1,006,707; Oct. 24; Sp. p. 4722; Gaz. vol. 171; p. 841.
Westen, Christian H., West Hoboken, N. J. Sash-holder. No. 1,001,233; Aug. 22; Sp. p. 4382; Gaz. vol. 169; p. 797.
Westendahl, Frederick, Lewiston, Idaho. Carpenter's gage. No. 1,012,949; Dec. 26; Sp. p. 5705; Gaz. vol. 173; p. 1000.
Westendorf, George O., Winiam, Victoria, Australia. Disk plow and cultivating implement. No. 1,008,759; Nov. 14; Sp. p. 2549; Gaz. vol. 172; p. 430.
Wester, Axel, Minneapolis, Minn. Rotary pump for vacuum systems. No. 1,000,566; Aug. 15; Sp. p. 2905; Gaz. vol. 169; p. 533.
Wester, Axel, assignor of one-half to A. L. Lofgren, Minneapolis, Minn. Rotary engine. No. 1,009,362; Nov. 21; Sp. p. 3878; Gaz. vol. 172; p. 675.
Wester, Carl, Helsingborg, Sweden. Explosive. No. 993,211; May 23; Sp. p. 5103; Gaz. vol. 166; p. 919.
Westerbeck, Frederick, St. Louis, Mo. Display-box. No. 995,747; June 20; Sp. p. 3605; Gaz. vol. 167; p. 633.
Westerbeck, Frederick, St. Louis, Mo. Sheet-metal can. No. 1,002,546; Sept. 5; Sp. p. 817; Gaz. vol. 170; p. 120.
Westerberg, Hugo E., assignor of one-half to J. A. Soderberg, Seattle, Wash. Illuminated sign. No. 987,274; Mar. 21; Sp. p. 3211; Gaz. vol. 164; p. 579.
Westerdahl, Per E., Seattle, Wash. Combined multiple fuse-block and switch. No. 994,623; June 6; Sp. p. 1077; Gaz. vol. 167; p. 180.
Westerheide, Wilhelm. (See Garpheide and Westerheide.)
Westerlund, August V., New York, N. Y. Automatic cigar-lighter. No. 1,006,515; Oct. 24; Sp. p. 4317; Gaz. vol. 171; p. 774.
Western Cartridge Company. (See Clyne, Robert G., assignor.)
Western Desert Mining Company. (See Jardine, Joseph B., Jr., assignor.)
Western Drill Manufacturing Company. (See Frazer, Knute L. J., assignor.)
Western Electric Company. (See Akin, Allison, assignor.)
Western Electric Company. (See Atwood, George F., assignor.)
Western Electric Company. (See Craft, Edward B., assignor.)
Western Electric Company. (See Dixon, Amos F., assignor.)
Western Electric Company. (See Dixon and Ireland, assignors.)
Western Electric Company. (See Dunbar, Howard W., assignor.)
Western Electric Company. (See Dyson, Alfred H., assignor.)
Western Electric Company. (See Gustave, George, assignor.)
Western Electric Company. (See Hall, Everett D., assignor.)
Western Electric Company. (See Holland, Newman H., assignor.)
Western Electric Company. (See Holmes and Craft, assignors.)
Western Electric Company. (See Matthies, William H., assignor.)
Western Electric Company. (See McBerty, Frank R., assignor.)
Western Electric Company. (See Scribner, Charles E., assignor.)
Western Loose-Leaf Manufacturing Company. (See Griesinger, John G., assignor.)
Western Tool and Manufacturing Company, The. (See Saum, Robert J., assignor.)
Western Wheeled Scraper Company. (See McKnight, Thomas R., assignor.)
Westervelt, Charles B. (See Hayden, Lester J., assignor.)
Westfall, Edward E., Mulvane, Kans. Hat-pin. No. 987,519; Mar. 21; Sp. p. 3701; Gaz. vol. 164; p. 661.
Westfall, Lee J., Omaha, Nebr. Incubator-alarm. No. 1,001,719; Aug. 29; Sp. p. 5379; Gaz. vol. 169; p. 993.
Westgarth, George W., Cardiff, England. Wire rope. No. 1,011,687; Dec. 12; Sp. p. 2913; Gaz. vol. 173; p. 487.
Westin, Daniel B., Hartford, assignor, by mesne assignments, to The Noiseless Typewriter Company, Middletown, Conn. Platen-shifting mechanism for type-writers. No. 1,013,084; Dec. 26; Sp. p. 5980; Gaz. vol. 173; p. 1047.
Westing, Aighting, Cleveland, Tex. Concrete and steel tie. No. 987,520; Mar. 21; Sp. p. 3702; Gaz. vol. 164; p. 661.
Westinghouse Air Brake Company, The. (See Cooper, William, assignor.)
Westinghouse Air Brake Company, The. (See Custer, John S., assignor.)
Westinghouse Air Brake Company, The. (See Custer and Murphy, assignors.)
Westinghouse Air Brake Company, The. (See England, Alexander, assignor.)
Westinghouse Air Brake Company, The. (See Goodspeed, Leland F., assignor.)
Westinghouse Air Brake Company, The. (See Mahoney, Joseph N., assignor.)
Westinghouse Air Brake Company, The. (See Mahoney and Austin, assignors.)
Westinghouse Air Brake Company, The. (See Murphy, Howard M. P., assignor.)
Westinghouse Air Brake Company, The. (See Newell, Edward W., assignor.)
Westinghouse Air Brake Company, The. (See Phillips, Walter, assignor.)
Westinghouse Air Brake Company, The. (See Simpson, Isaac, assignor.)
Westinghouse Air Brake Company, The. (See Swartzwelder, Richard C., assignor.)
Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
Westinghouse Air Brake Company, The. (See Turner and Cady, assignors.)
Westinghouse Automatic Air & Steam Coupler Company. (See Adreon, Robert E., assignor.)
Westinghouse Automatic Air & Steam Coupler Company. (See Williamson, Frederick G., assignor.)
Westinghouse Automatic Air & Steam Coupler Company. (See Wuerpel, Morris, assignor.)
Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
Westinghouse Electric & Manufacturing Company. (See Andrew, Frederick W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Bache-Wiig, Jens, assignor.)
Westinghouse Electric and Manufacturing Company. (See Barr, John M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Berentsen, Hans G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric and Manufacturing Company. (See Cooper, William, assignor.)
Westinghouse Electric & Manufacturing Company. (See Cooper and Sweet, assignors.)
Westinghouse Electric & Manufacturing Company. (See Crouse, John L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Davis and Harris, assignors.)
Westinghouse Electric & Manufacturing Company. (See De Kaiser, Isaac, assignor.)
Westinghouse Electric and Manufacturing Company. (See Dearborn, Richard J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dick, William A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dyott and Carson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Elers, Karl F., assignor.)
Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gonzenbach, Ernest, assignor.)
Westinghouse Electric & Manufacturing Company. (See Hadaway, William S., Jr., assignor.)

Alphabetical list of patentees—Continued.

Westinghouse Electric & Manufacturing Company. (See Hanker, Frederic C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Harris, Ford W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jackson, Ray P., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See James and Lehr, assignors.)
Westinghouse Electric & Manufacturing Company. (See Jones, Jesse, assignor.)
Westinghouse Electric & Manufacturing Company. (See Jones, Jesse L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kingsbury, Albert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kintner, Samuel M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lacey, Frederick W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lamme, Benjamin G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lehr, Edwin, assignor.)
Westinghouse Electric & Manufacturing Company. (See MacGahan, Paul, assignor.)
Westinghouse Electric and Manufacturing Company. (See Martin, Frederick S., assignor.)
Westinghouse Electric & Manufacturing Company. (See McConahey, William M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Henry, assignor.)
Westinghouse Electric and Manufacturing Company. (See Nicholson, Samuel L., assignor.)
Westinghouse Electric and Manufacturing Company. (See North and Peck, assignors.)
Westinghouse Electric and Manufacturing Company. (See Olmsted, Alexander H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Paris, William A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Peck, Henry W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Peck, John S., assignor.)
Westinghouse Electric and Manufacturing Company. (See Psilander, Charles A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Randall, Karl C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Reynders, Arthur B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Reynders and Mateer, assignors.)
Westinghouse Electric & Manufacturing Company. (See Ridings, William R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rose, Edward E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rosenblatt, Girard B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Rypinski, Maurice C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Sakai, Yasudiro, assignor.)
Westinghouse Electric & Manufacturing Company. (See Schaake, William, assignor.)
Westinghouse Electric & Manufacturing Company. (See Shedd, Harry M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Siegfried, Robert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Skinner, Charles E., assignor.)
Westinghouse Electric and Manufacturing Company. (See Smith, Harold B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Soule, Herbert C., assignor.)
Westinghouse Electric and Manufacturing Company. (See Steen, Harry A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Stuart, Harve R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Taylor, Harold B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tingley, Egbert M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tucker, Curtis A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Varney, Theodore, assignor.)
Westinghouse Electric & Manufacturing Company. (See Walker, Miles, assignor.)
Westinghouse Electric & Manufacturing Company. (See Webster, John E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wilbur, Samuel P., assignor.)
Westinghouse, George. (See Herr, Herbert T., assignor.)
Westinghouse, George. (See Kandó, Coloman de, assignor.)
Westinghouse, George. (See Kandó, Kalman von, assignor.)
Westinghouse, George, Pittsburg, Pa. Turbine-blading. No. 990,321; Apr. 25; Sp. p. 4379; Gaz. vol. 165; p. 775.
Westinghouse, George, Pittsburg, Pa. Electrical apparatus. No. 994,810; June 13; Sp. p. 1554; Gaz. vol. 167; p. 285.
Westinghouse, George, Pittsburg, Pa. Turbine-blading. No. 998,820; July 25; Sp. p. 4848; Gaz. vol. 168; p. 875.
Westinghouse, George, Pittsburg, Pa. Condensing-turbine. No. 998,821; July 25; Sp. p. 4850; Gaz. vol. 168; p. 876.
Westinghouse, George, Pittsburg, Pa., assignor to The Westinghouse Machine Company. Elastic-fluid turbine. No. 995,508; June 20; Sp. p. 3073; Gaz. vol. 167; p. 548.
Westinghouse, Henry H. (See Goodspeed, Leland F., assignor.)
Westinghouse Lamp Company. (See Birnbaum, Ottilie, assignor.)
Westinghouse Lamp Company. (See Knight, Arthur S., assignor.)
Westinghouse Lamp Company. (See Lederer, Anton, assignor.)
Westinghouse Machine Company, The. (See Bailey, James N., assignor.)
Westinghouse Machine Company, The. (See Hodgkinson, Francis, assignor.)
Westinghouse Machine Company, The. (See Miller, Charles F., assignor.)
Westinghouse Machine Company, The. (See Newkirk, Edgar D., assignor.)
Westinghouse Machine Company, The. (See Schmidt, Henry F., assignor.)
Westinghouse Machine Company, The. (See Westinghouse, George, assignor.)
Westlake, Charles T., St. Louis, Mo. Casting. No. 980,719; Jan. 3; Sp. p. 1171; Gaz. vol. 162; p. 186.
Westlake, Charles T., assignor to Cast Steel Platform Company, St. Louis, Mo. Car-underframe. No. 995,934; June 20; Sp. p. 4021; Gaz. vol. 167; p. 699.
Westlake, Charles T., assignor to Cast Steel Platform Company, St. Louis, Mo. Car-underframe. No. 1,012,180; Dec. 19; Sp. p. 4017; Gaz. vol. 173; p. 692.
Westlake, Josiah W., Marysville, Ohio. Mold. No. 992,311; May 16; Sp. p. 3188; Gaz. vol. 166; p. 579.
Westlake, Josiah W., Marysville, Ohio. Concrete-mold. No. 992,312; May 16; Sp. p. 3189; Gaz. vol. 166; p. 580.
Westlake Machine Company. (See Kadow, August, assignor.)
Westling, Leonard L., Pittsburg, Pa. Packing-case for ice-cream cones. No. 985,870; Mar. 7; Sp. p. 230; Gaz. vol. 164; p. 38.
Westmoreland, Henry A., Earlsfield, London, England. Dropper and standard. No. 987,199; Mar. 21; Sp. p. 3051; Gaz. vol. 164; p. 553.
Weston, Frederick H. (See Wright and Weston.)
Weston, Herbert T., Cleveland, Ohio. Desiccating air. No. 992,829; May 23; Sp. p. 4279; Gaz. vol. 166; p. 789.
Weston, Oliver, Cleveland, Ohio. Game device. No. 1,006,516; Oct. 24; Sp. p. 4318; Gaz. vol. 171; p. 775.
Weston, Philip, Dalton, Mass. Making paper. No. 1,008,228; Nov. 7; Sp. p. 1255; Gaz. vol. 172; p. 205.
Weston, William. (See Orth and Weston.)
Westphal, Christian, Berlin, Germany. Retort-furnace. No. 988,842; Apr. 4; Sp. p. 1169; Gaz. vol. 165; p. 187.
Westphal, George J., Oklahoma, Okla. Air-brake signal. No. 989,460; Apr. 11; Sp. p. 2466; Gaz. vol. 165; p. 417.
Westphal, William J. (See Trana, Ole A., assignor.)
Westphall, Charles J. (See Skiff and Westphall.)
Westrumite Company of America. (See Van Westrum, Leonard S., assignor.)
Wetherbee, Wilfred J. (See Geary, John, assignor.)
Wetherbee, William, Cokedale, Colo. Drilling-machine. No. 982,755; Jan. 24; Sp. p. 5660; Gaz. vol. 162; p. 969.
Wetherby, Franklin N., Milwaukee, Wis. Apparatus for casting dental fillings. No. 994,225; June 6; Sp. p. 257; Gaz. vol. 167; p. 44.
Wetherell, Anson B., Pittsburg, Pa. Railway cross-tie. No. 985,483; Feb. 28; Sp. p. 4852; Gaz. vol. 163; p. 861.
Wetherholt, William C., Columbus, Ohio. Pneumatic-tire valve. No. 1,006,159; Oct. 17; Sp. p. 3494; Gaz. vol. 171; p. 620.
Wetherill, Richard W., Ambler, Pa., assignor to The J. M. Dodge Company, Naugatuck, Conn. Freight-hoist. No. 987,418; Mar. 21; Sp. p. 3507; Gaz. vol. 164; p. 627.
Wetherly, Albert R., Croydon, England. Vending apparatus. No. 986,664; Mar. 14; Sp. p. 1934; Gaz. vol. 164; p. 341.
Wethey, Arthur H. (See Bryant, Thomas, assignor.)
Wetmore, Clayton F., Jersey City, N. J., assignor to National Casket Co., New York, N. Y. Casket construction. No. 983,963; Feb. 14; Sp. p. 1541; Gaz. vol. 163; p. 271.
Wetmore, Earl P., assignor to The Sterling Cork & Seal Company, Toledo, Ohio. Sealing-head for bottle-capping machines. No. 986,333; Mar. 7; Sp. p. 1203; Gaz. vol. 164; p. 194.
Wetterhold, George, Wichita, Kans. Hay-grinder. No. 999,932; Aug. 8; Sp. p. 1481; Gaz. vol. 169; p. 281.
Wetterwald, Joseph, Lucerne, Switzerland. Steering device for vehicles, airships, aeroplanes, submarines, and the like. No. 985,958; Mar. 7; Sp. p. 427; Gaz. vol. 164; p. 68.
Wetzel, Albert, Stuttgart, Germany. Tachometer with spring loop and pawl mechanism. No. 1,009,947; Nov. 28; Sp. p. 5084; Gaz. vol. 172; p. 918.

Alphabetical list of patentees—Continued.

Wetzel, Lewis C., assignor to Toledo Computing Scale Company, Toledo, Ohio. Weighing and computing scale. No. 998,220; July 18; Sp. p. 3504; Gaz. vol. 168; p. 631.
Weÿer, Cuno. (See Windhövel and Weÿer.)
Weymouth, Clarence R. (See Atchison and Weymouth.) (Reissue.)
Weymouth, Herbert S., Brooklyn, N. Y. Water-level. No. 986,109; Mar. 7; Sp. p. 748; Gaz. vol. 164; p. 120.
Weyrs, Frank S., Philadelphia, Pa. Automatic adjustable holder for telephone instruments. No. 980,465; Jan. 3; Sp. p. 618; Gaz. vol. 162; p. 102.
Whalen, Michael H., New York, N. Y. Aeronautical device. No. 1,005,089; Oct. 3; Sp. p. 1105; Gaz. vol. 171; p. 187.
Whaley, Albert L., Texarkana, Tex. Cross-tie. No. 1,006,813; Oct. 24; Sp. p. 4972; Gaz. vol. 171; p. 880.
Whaley, Charles W., Indianapolis, Ind. Advertising device. No. 985,484; Feb. 28; Sp. p. 4853; Gaz. vol. 163; p. 861.
Whalton, Hilary F., Key West, Fla. Electric hammer. No. 984,984; Feb. 21; Sp. p. 3701; Gaz. vol. 163; p. 654.
Whalton, Hilary F., Key West, Fla. Electric hammer. No. 996,439; June 27; Sp. p. 5172; Gaz. vol. 167; p. 906.
Whalton, Hilary F., Key West, Fla. Electric hammer. No. 996,440; June 27; Sp. p. 5174; Gaz. vol. 167; p. 906.
Whalton, Hilary F., Key West, Fla. Electric-switch mechanism. No. 1,007,998; Nov. 7; Sp. p. 770; Gaz. vol. 172; p. 122.
Whalton, Hilary F., Key West, Fla. Starting mechanism. No. 1,010,835; Dec. 5; Sp. p. 973; Gaz. vol. 173; p. 152.
Wham, Steuben D., Elgin, Okla. Well-drill. No. 1,006,160; Oct. 17; Sp. p. 3495; Gaz. vol. 171; p. 620.
Wharton, Joseph S. L., *et al.* (See Gamble, Joseph W., assignor.)
Whatley, Alfred H. (See Levens and Whatley.)
Wheary, George H., Racine, Wis. Garment-hanger. No. 1,010,102; Nov. 28; Sp. p. 5417; Gaz. vol. 172; p. 971.
Wheary, George H., assignor to The Hartmann Trunk Co., Racine, Wis. Wardrobe-trunk. No. 987,275; Mar. 21; Sp. p. 3213; Gaz. vol. 164; p. 580.
Wheat, Lyman A., Battle Creek, Mich. Rotary printing-press. No. 990,178; Apr. 18; Sp. p. 4025; Gaz. vol. 165; p. 693.
Wheat, Lyman A., Battle Creek, Mich. Stereotype or electrotype cylinder for printing-presses. No. 1,008,507; Nov. 14; Sp. p. 1994; Gaz. vol. 172; p. 341.
Wheatfield, Jacob. (See Friedlein, Robert E., assignor.)
Wheatley, Francis, Kansas City, Mo. Hose-nozzle. No. 992,314; May 16; Sp. p. 3194; Gaz. vol. 166; p. 580.
Wheaton, Charles A., Stockton, Cal. Elastic tire for wheels. No. 994,353; June 6; Sp. p. 517; Gaz. vol. 167; p. 89.
Wheaton, Louisa E., La Crosse, Wis. Combined mop head and wringer. No. 1,000,220; Aug. 8; Sp. p. 2135; Gaz. vol. 169; p. 380.
Wheaton, Walter S., Millville, N. J. Bottle-mold. No. 992,830; May 23; Sp. p. 4280; Gaz. vol. 166; p. 789.
Whedon, James P. (See Miller, Silas A., assignor.)
Wheeler, Alvin H., San Francisco, Cal. Vessel and propeller. No. 1,001,914; Aug. 29; Sp. p. 5820; Gaz. vol. 169; p. 1059.
Wheeler, Charles J. (See Wheeler, William T. and C. J.)
Wheeler Condenser & Engineering Company. (See Christie, Evi W., assignor.)
Wheeler, Franklin C., Cleveland, Ohio. Vacuum-cleaner. No. 984,628; Feb. 21; Sp. p. 3000; Gaz. vol. 163; p. 532.
Wheeler, George L., St. Louis, Mo. Automatic fender. No. 998,141; July 18; Sp. p. 3346; Gaz. vol. 168; p. 603.
Wheeler, George W. (See Wheeler, William T. and C. J., assignors.)
Wheeler, Harry A., Whitman, Mass. Tape-pasting machine. No. 998,221; July 18; Sp. p. 3513; Gaz. vol. 168; p. 631.
Wheeler, Harvey C., Boston, Mass. Roller-towel. No. 980,720; Jan. 3; Sp. p. 1173; Gaz. vol. 162; p. 186.
Wheeler, Henry H., East St. Louis, Ill. Liquid-separating device. No. 982,328; Jan. 24; Sp. p. 4766; Gaz. vol. 162; p. 825.
Wheeler, James A., New York, N. Y., assignor, by mesne assignments, to W. T. Elkinton, Philadelphia, Pa. Forming fireproof slabs or boards. No. 984,870; Feb. 21; Sp. p. 3493; Gaz. vol. 163; p. 617.
Wheeler, James E. (See Buell and Wheeler.)
Wheeler, James W., Palmyra, assignor of one-half to E. Lowe, Lincoln, Nebr. Door for grain-cars. No. 1,003,308; Sept. 12; Sp. p. 2465; Gaz. vol. 170; p. 424.
Wheeler, John H., G. A. Beck, and M. Hepburn, assignors to The Marlin Firearms Company, New Haven, Conn. Repeating firearm. No. 997,642; July 11; Sp. p. 2182; Gaz. vol. 168; p. 387.
Wheeler, John R., assignor of one-fourth to C. W. Brinkley and one-fourth to R. G. White, Edenton, N. C. Staple. No. 984,629; Feb. 21; Sp. p. 3002; Gaz. vol. 163; p. 532.
Wheeler Publishing Company, The. (See Southard, Abraham M., assignor.)
Wheeler, Raymond O., assignor to The Bankers Construction Company, Cincinnati, Ohio. Book-stack. No. 980,372; Jan. 3; Sp. p. 388; Gaz. vol. 162; p. 69.
Wheeler, Robert, Wellsburg, W. Va. Metal cross-tie. No. 996,742; July 4; Sp. p. 285; Gaz. vol. 168; p. 49.
Wheeler, Robert S., Norristown, Pa. Cotton-picker. No. 1,001,720; Aug. 29; Sp. p. 5381; Gaz. vol. 169; p. 993.
Wheeler, Samuel D., Chicago, Ill. Airship. No. 1,001,721; Aug. 29; Sp. p. 5383; Gaz. vol. 169; p. 993.
Wheeler, Samuel H. (See Lincoln, Charles L., assignor.)
Wheeler, Seth, Castleton, N. Y. Folding-machine. No. 980,373; Jan. 3; Sp. p. 390; Gaz. vol. 162; p. 69.
Wheeler, Walter O., Worcester, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Feeding mechanism for shoe machinery. No. 1,008,575; Nov. 14; Sp. p. 2150; Gaz. vol. 172; p. 367.
Wheeler, William G., Cincinnati, Ohio. Overshoe-retainer. No. 993,212; May 23; Sp. p. 5104; Gaz. vol. 166; p. 919.
Wheeler, William H., Ennis, Tex. Food-tongs. No. 999,614; Aug. 1; Sp. p. 820; Gaz. vol. 169; p. 143.
Wheeler, William T. and C. J., assignors of one-third to G. W. Wheeler, Noblesville, Ind. Railway-rail tie and fastener. No. 990,515; Apr. 25; Sp. p. 5045; Gaz. vol. 165; p. 879.
Wheeler, William W., Meriden, Conn. Rotary engine. No. 982,329; Jan. 24; Sp. p. 4767; Gaz. vol. 162; p. 826.
Wheeling Corrugating Company. (See Borries, Ehrmann F. von, assignor.)
Wheeling Stamping Company. (See Edwards, Alonzo L., assignor.)
Wheeling Stamping Company. (See Paull, Archibald W., assignor.)
Wheeling Steel & Iron Company. (See Bedell, Carl E., assignor.)
Wheelock, Edwin M., Winona, Minn. Incased gearing. No. 986,614; Mar. 14; Sp. p. 1821; Gaz. vol. 164; p. 323.
Wheelock, Edwin M., Winona, Minn. Guide-wheel for plow-motors. No. 986,615; Mar. 14; Sp. p. 1823; Gaz. vol. 164; p. 323.
Wheelock, Elton D., Beatrice, Nebr., and B. T. Cubine, Kansas City, Mo. Gravity-hinge. No. 984,724; Feb. 21; Sp. p. 3208; Gaz. vol. 163; p. 567.
Wheelock, Raymond P., Searchlight, Nev. Producing metals from ores. No. 996,179; June 27; Sp. p. 4581; Gaz. vol. 167; p. 817.
Wheelon, John C., Garland, Utah. Dam. No. 1,008,760; Nov. 14; Sp. p. 2551; Gaz. vol. 172; p. 430.
Whelan, Charles A., Buena Vista, Colo. Buckle. No. 992,831; May 23; Sp. p. 4281; Gaz. vol. 166; p. 789.
Whelan, John B. (See Nichoalds, Harry W., assignor.)
Whellams, Creasey J., St. Paul, Minn., assignor to The Metal Screen & Manufacturing Co. Form for making window-screen frames. No. 985,959; Mar. 7; Sp. p. 429; Gaz. vol. 164; p. 69.
Wherry, William H., East Cleveland, Ohio. Rail-bond. No. 1,002,348; Sept. 5; Sp. p. 393; Gaz. vol. 170; p. 55.
Whichello, Norman, Muskegon, Mich. Switch for overhead-trolley tracks. No. 1,000,136; Aug. 8; Sp. p. 1952; Gaz. vol. 169; p. 351.
Whilde, Thomas, Bellingham, Wash. Repair-sheet. No. 991,256; May 2; Sp. p. 913; Gaz. vol. 166; p. 155.
Whipple, Clayton T., Glens Falls, N. Y. Tubular lantern-frame. No. 994,624; June 6; Sp. p. 1079; Gaz. vol. 167; p. 180.
Whipple, Clayton T., Glens Falls, and H. A. Moody, Sandy Hill, assignors to American Safety Lantern Company, Glens Falls, N. Y. Lantern. No. 981,590; Jan. 10; Sp. p. 3181; Gaz. vol. 162; p. 519.
Whipple, Clayton T., Glens Falls, and H. A. Moody, Sandy Hill, assignors to American Safety Lantern Company, Glens Falls, N. Y. Tubular lantern. No. 983,790; Feb. 7; Sp. p. 1136; Gaz. vol. 163; p. 182.
Whipple, Clayton T., Glens Falls, and H. A. Moody, Hudson Falls, assignors to American Safety Lantern Company, Glens Falls, N. Y. Globe-lifter. No. 999,687; Aug. 1; Sp. p. 964; Gaz. vol. 169; p. 169.
Whipple, Clayton T., Glens Falls, H. A. Moody, Sandy Hill, and F. M. Stevens, New York, N. Y., assignors to American Safety Lantern Co., Glens Falls, N. Y. Tubular lantern. No. 981,589; Jan. 10; Sp. p. 3179; Gaz. vol. 162; p. 518.
Whipple, George E., assignor to United States Whip Company, Westfield, Mass. Whip-core. No. 981,147; Jan. 10; Sp. p. 2220; Gaz. vol. 162; p. 366.
Whipple, George E., assignor to United States Whip Company, Westfield, Mass. Manufacturing whip-cores. No. 983,791; Feb. 7; Sp. p. 1137; Gaz. vol. 163; p. 183.
Whipple, Leland B. (See Clement and Whipple.)
Whipple, Leland B., assignor to American Wood Working Machinery Co., Rochester, N. Y. Knife-grinding attachment for planing-machines. No. 983,850; Feb. 7; Sp. p. 1272; Gaz. vol. 163; p. 204.
Whipple, Oliver B., Saginaw, Mich. Electric switch. No. 987,200; Mar. 21; Sp. p. 3052; Gaz. vol. 164; p. 553.
Whipps, Harry L., assignor of one-half to L. L. Whipps, Lesueur Center, Minn. Steel trap. No. 1,010,553; Dec. 5; Sp. p. 332; Gaz. vol. 173; p. 53.
Whipps, James, Carlisle, Ind. Harrow-tooth. No. 985,871; Mar. 7; Sp. p. 232; Gaz. vol. 164; p. 38.
Whipps, Lloyd L. (See Whipps, Harry L., assignor.)
Whistler, David B. (See Ohmer, Whistler, and McAllister.)
Whistler, John E., Santa Barbara, Cal. Inflated ball. No. 992,832; May 23; Sp. p. 4283; Gaz. vol. 166; p. 790.
Whitaker, Lewis E., Sussex, N. J. Weeder and hoe. No. 998,661; July 25; Sp. p. 4489; Gaz. vol. 168; p. 819.

Alphabetical list of patentees—Continued.

Whitaker, Louis P., Washington, D. C., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Manufacture of steel rings. No. 992,463; May 16; Sp. p. 3505; Gaz. vol. 166; p. 631.
Whitaker, Louis P., Washington, D. C., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa. Clamping-ring for pipe-couplings. No. 992,464; May 16; Sp. p. 3507; Gaz. vol. 166; p. 631.
Whitaker, Milton C., and F. J. Metzger, Yonkers, assignors to H. E. Robinson, Brooklyn, N. Y. Storage of acetylene. No. 1,003,559; Sept. 19; Sp. p. 2974; Gaz. vol. 170; p. 543.
Whitaker, Richard, and E. Lowe, assignors to The Brunswick Refrigerating Company, New Brunswick, N. J. Gas-pump. No. 990,616; Apr. 25; Sp. p. 5046; Gaz. vol. 165; p. 879.
Whitaker, Rolandes, Bigelow, Ark. Band-saw guide. No. 981,340; Jan. 10; Sp. p. 2673; Gaz. vol. 162; p. 434.
Whitaker, Samuel V. (See Munson and Whitaker.)
Whitall Tatum Company. (See Tatum, Charles A., assignor.)
Whitbeck, Arthur J., New Britain, Conn. Self-heating soldering-iron. No. 991,122; May 2; Sp. p. 627; Gaz. vol. 166; p. 107.
Whitcomb, Adolphe. (See Martin and Whitcomb.)
Whitcomb, Lawrence, Brookline, assignor to National Brake & Clutch Company, Boston, Mass. Bushing for pulleys. No. 989,676; Apr. 18; Sp. p. 2974; Gaz. vol. 165; p. 524.
White, Alpheus R., A. M., and W. S., Norfolk, Va. Plow attachment. No. 991,920; May 9; Sp. p. 2331; Gaz. vol. 166; p. 414.
White, Arthur, Sheboygan Falls, Wis. Steam-generating system. No. 992,833; May 23; Sp. p. 4284; Gaz. vol. 166; p. 790.
White, Arthur K., Marysville, Cal. Clock-controlled switch. No. 1,012,490; Dec. 19; Sp. p. 4641; Gaz. vol. 173; p. 796.
White, Arthur M. (See White, Alpheus R., A. M., and W. S.)
White, Bruce C., Woonsocket, R. I., assignor to Price-Campbell Cotton Picker Corporation, Wilmington, Del. Cotton-picker. No. 1,003,836; Sept. 19; Sp. p. 3578; Gaz. vol. 170; p. 636.
White, Bruce C., Woonsocket, R. I., assignor to Price-Campbell Cotton Picker Corporation, Wilmington, Del. Mold for use in casting roller-bearing cages. No. 1,003,837; Sept. 19; Sp. p. 3580; Gaz. vol. 170; p. 636.
White, Bruce C., Woonsocket, R. I., assignor to Price-Campbell Cotton Picker Corporation, Wilmington, Del. Cotton-picker. No. 1,008,229; Nov. 7; Sp. p. 1257; Gaz. vol. 172; p. 205.
White, Bruce C., Woonsocket, R. I., assignor to Price-Campbell Cotton Picker Corporation, Wilmington, Del. Cotton-picker finger. No. 1,008,230; Nov. 7; Sp. p. 1260; Gaz. vol. 172; p. 206.
White, Bruce C., Rochester Pa., assignor, by mesne assignments, to Price-Campbell Cotton Picker Corporation, Wilmington, Del. Cotton-picker. No. 1,004,835; Oct. 3; Sp. p. 616; Gaz. vol. 171; p. 102.
White, Bruce C., Woonsocket, and B. C. Calderwood, Valley Falls, R. I., assignors to Price-Campbell Cotton Picker Corporation, Wilmington, Del. Cotton-picker. No. 1,003,838; Sept. 19; Sp. p. 3581; Gaz. vol. 170; p. 637.
White, Byron R., Norwood, assignor to D. Davis, Cincinnati, Ohio. Coin-receiver and money-changer. No. 1,010,993; Dec. 5; Sp. p. 1303; Gaz. vol. 173; p. 207.
White, Carl H., and R. A. Lett, assignors to The Piogran Sales Company, Denver, Colo. Take-down pocket-knife. No. 986,334; Mar. 7; Sp. p. 1205; Gaz. vol. 164; p. 195.
White, Carl H., and R. A. Lett, assignors to The Piogran Sales Company, Denver, Colo. Take-down pocket-knife. No. 994,226; June 6; Sp. p. 259; Gaz. vol. 167; p. 44.
White, Carl H., and R. A. Lett, assignors to The Piogran Sales Company, Denver, Colo. Take-down pocket-knife. No. 1,003,560; Sept. 19; Sp. p. 2976; Gaz. vol. 170; p. 543.
White, Charles, Spraggs, Pa. Neck-yoke attachment. No. 982,556; Jan. 24; Sp. p. 5250; Gaz. vol. 162; p. 905.
White, Charles E., San Francisco, Cal. Pump. No. 994,434; June 6; Sp. p. 691; Gaz. vol. 167; p. 118.
White, Charles E., Quincy, Mass., assignor to American Type Founders Company, Jersey City, N. J. Gumming mechanism for box-machines, &c. No. 985,238; Feb. 28; Sp. p. 4299; Gaz. vol. 163; p. 777.
White, Charles E. and C. H., Moline, Ill. Raking-drum. No. 983,662; Feb. 7; Sp. p. 873; Gaz. vol. 163; p. 139.
White, Charles H. (See White, Charles E. and C. H.)
White, Charles J. (See Leave, Andrew G., assignor.)
White, Clarence W. (See White, Hawley C. and C. W.)
White Company, The. (See Farmer, Frank H., assignor.)
White Company, The. (See Scaife, Arthur J., assignor.)
White Company, The. (See White, Rollin H., assignor.)
White, David H., Tacoma, Wash. Drawing instrument. No. 1,008,934; Nov. 14; Sp. p. 2900; Gaz. vol. 172; p. 487.
White, Edward L., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 988,609; Apr. 4; Sp. p. 687; Gaz. vol. 165; p. 110.
White, Edward N., Banes, Cuba, assignor of two-fifths to J. F. Oberle, New York, N. Y. Attachment for cameras. No. 1,006,161; Oct. 17; Sp. p. 3500; Gaz. vol. 171; p. 620.
White, Ela B., London, England, assignor to National Boiler Washing Company, Chicago, Ill. System of and apparatus for washing and refilling locomotive-boilers. No. 992,834; May 23; Sp. p. 4287; Gaz. vol. 166; p. 790.
White, Elizabeth P., Salisbury, N. C. Scrub-apron. No. 1,004,717; Oct. 3; Sp. p. 374; Gaz. vol. 171; p. 62.
White, Frank, Newark, N. J. Knife. No. 1,010,554; Dec. 5; Sp. p. 334; Gaz. vol. 173; p. 54.
White, Frank M., assignor of one-half to J. S. Reynolds, Chicago, Ill. Device for protection of display-windows. No. 983,663; Feb. 7; Sp. p. 875; Gaz. vol. 163; p. 140.
White, Fred W., and A. W. Fisher, Whites Valley, Pa. Dough-raising apparatus. No. 1,011,542; Dec. 12; Sp. p. 2573; Gaz. vol. 173; p. 436.
White, George H. (See Snook and White.)
White, George S., Holden, Me. Combined mop head and wringer. No. 989,315; Apr. 11; Sp. p. 2173; Gaz. vol. 165; p. 370.
White, Harold E., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,008,625; Nov. 14; Sp. p. 2255; Gaz. vol. 172; p. 384.
White, Harrie C., North Bennington, Vt. Stereoscope and stereograph. No. 984,055; Feb. 14; Sp. p. 1757; Gaz. vol. 163; p. 302.
White, Harry B., assignor to S. S. Kurtz, Canton, Ohio. Slip-file. No. 983,964; Feb. 14; Sp. p. 1542; Gaz. vol. 163; p. 271.
White, Hawley C., assignor to H. C. White Co., North Bennington, Vt. Projecting apparatus. No. 993,425; May 30; Sp. p. 5569; Gaz. vol. 166; p. 1022.
White, Hawley C. and C. W., assignors to H. C. White Co., North Bennington, Vt. Projecting apparatus. No. 991,575; May 9; Sp. p. 1609; Gaz. vol. 166; p. 296.
White, Henry. (See Rundlett and White.)
White, Henry J. (See Sudlow and White.)
White, Henry P., Kalamazoo, Mich. Lubricating material and manufacturing the same. No. 1,002,349; Sept. 5; Sp. p. 395; Gaz. vol. 170; p. 56.
White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Expanded-metal structure. No. 993,930; May 30; Sp. p. 6632; Gaz. vol. 166; p. 1195.
White, Herbert E., assignor to The General Fireproofing Company, Youngstown, Ohio. Expanded-metal structure. No. 1,008,877; Nov. 14; Sp. p. 2790; Gaz. vol. 172; p. 469.
White, Hubert C., Fultonville, N. Y., assignor of one-half to F. S. Porter, Jackson, Mich. Device for cracking nuts. No. 1,004,611; Oct. 3; Sp. p. 138; Gaz. vol. 171; p. 24.
White, Jacob W., Pueblo, Colo. Track manifold sanding device. No. 984,405; Feb. 14; Sp. p. 2482; Gaz. vol. 163; p. 420.
White, Jesse L., Evansville, Ind. Ladder. No. 991,401; May 2; Sp. p. 1225; Gaz. vol. 166; p. 204.
White, Jesse S., Elizabeth, Miss. Riding attachment for plows. No. 985,960; Mar. 7; Sp. p. 431; Gaz. vol. 164; p. 69.
White, John A., Washburn, Ill. Clover-feeder. No. 993,213; May 23; Sp. p. 5105; Gaz. vol. 166; p. 920.
White, John E. (See White, Septimus T. E. and J. E.)
White, John F., Pittsburg, Pa. Machine for perforating sheet-music. No. 981,341; Jan. 10; Sp. p. 2674; Gaz. vol. 162; p. 434.
White, John F., Bradford, England. Machine for drying wool and other textile materials. No. 986,253; Mar. 7; Sp. p. 1039; Gaz. vol. 164; p. 167.
White, John F., Bradford, England. Apparatus for treating fiber with liquids. No. 994,625; June 6; Sp. p. 1080; Gaz. vol. 167; p. 180.
White, John F., Bradford, England. Willow. No. 997,723; July 11; Sp. p. 2356; Gaz. vol. 168; p. 414.
White, John F., Bradford, England. Machine for opening and cleaning fibers and rag-dusting machines. No. 1,001,487; Aug. 22; Sp. p. 4886; Gaz. vol. 169; p. 882.
White, John F., Bradford, England. Machine for opening and cleaning fibers and rag-dusting machines. No. 1,001,488; Aug. 22; Sp. p. 4887; Gaz. vol. 169; p. 882.
White, John F., Mount Morris, N. Y. Can-stamping machine. No. 1,006,814; Oct. 24; Sp. p. 4973; Gaz. vol. 171; p. 881.
White, John J., Denver, Colo. Draft-equalizer. No. 980,854; Jan. 3; Sp. p. 1437; Gaz. vol. 162; p. 231.
White, John L., Sioux Falls, and J. B. Polo, Clear Lake, S. D. Automatic water system. No. 999,075; July 25; Sp. p. 5430; Gaz. vol. 168; p. 966.
White, John M., Mapleton Depot, Pa. Centrifugal drier. No. 992,621; May 16; Sp. p. 3853; Gaz. vol. 166; p. 687.
White, Joseph A., assignor to The Moore and White Company, Philadelphia, Pa. Flexible coupling for shafts. No. 982,164; Jan. 17; Sp. p. 4401; Gaz. vol. 162; p. 737.
White, Joseph A., assignor to The Moore and White Company, Philadelphia, Pa. Paper-making machine. No. 989,461; Apr. 11; Sp. p. 2469; Gaz. vol. 165; p. 418.
White, Joseph J., New Lisbon, N. J. Railway-rail fastener. No. 1,001,234; Aug. 22; Sp. p. 4384; Gaz. vol. 169; p. 797.

Alphabetical list of patentees—Continued.

White, Joseph J., New Lisbon, N. J. Metallic railway-tie. No. 1,001,327; Aug. 22; Sp. p. 4585; Gaz. vol. 169; p. 830.
White, Joseph M., Mackay, Idaho. Watch-protection cover. No. 981,905; Jan. 17; Sp. p. 3869; Gaz. vol. 162; p. 650.
White Lily Manufacturing Company. (See Plagman, Adolph, assignor.)
White Lily Manufacturing Company. (See Victor, Alexander F., assignor.)
White, Louis D., *et al.* (See Beall, John, assignor.)
White, Louis L., Eugene, Oreg. Regulating mechanism for incubators. No. 989,462; Apr. 11; Sp. p. 2471; Gaz. vol. 165; p. 418.
White, May C., Kenilworth, Ill. Garment-hanger. No. 999,282; Aug. 1; Sp. p. 170; Gaz. vol. 169; p. 32.
White, Morris C. (See Duryea and White.)
White, Morris C., and O. C. Duryea, Los Angeles, Cal., assignors to American Gas-Tool Company, Chicago, Ill. Briqueting apparatus. No. 980,374; Jan. 3; Sp. p. 393; Gaz. vol. 162; p. 69.
White, Nicholas W., Syracuse, N. Y. Punching-bag apparatus. No. 990,467; Apr. 25; Sp. p. 4710; Gaz. vol. 165; p. 828.
White, Noah. (See Donahue, Thomas, assignor.)
White, Noah, Delta, Colo. Nut-lock. No. 999,933; Aug. 8; Sp. p. 1482; Gaz. vol. 169; p. 281.
White, Otis C., Worcester, Mass. Adjustable bracket. No. 999,283; Aug. 1; Sp. p. 171; Gaz. vol. 169; p. 32.
White, Patrick, New York, N. Y. Adjustable bracket. No. 1,010,994; Dec. 5; Sp. p. 1310; Gaz. vol. 173; p. 208.
White, Peter, St. Louis, Mo. Roll for delinting cotton-seed or the like. No. 986,415; Mar. 7; Sp. p. 1385; Gaz. vol. 164; p. 223.
White, Ray E., Charlotte, Mich. Steam-cooker. No. 1,007,999; Nov. 7; Sp. p. 771; Gaz. vol. 172; p. 122.
White, Richard D., U. S. Navy. Recording-speedometer. No. 1,006,326; Oct. 17; Sp. p. 3878; Gaz. vol. 171; p. 678.
White, Robert E., Mount Sterling, Ky. Frog-trap. No. 1,007,758; Nov. 7; Sp. p. 237; Gaz. vol. 172; p. 38.
White, Robert G., *et al.* (See Wheeler, John R., assignor.)
White, Robert M., and E. T. Adams, Portsmouth, Ohio. Dump-wagon. No. 1,001,328; Aug. 22; Sp. p. 4586; Gaz. vol. 169; p. 830.
White, Robert S., Jr., assignor, by mesne assignments, of one-half to C. N. Bancroft, Bickford, Okla. Rotary engine. No. 991,576; May 9; Sp. p. 1611; Gaz. vol. 166; p. 297.
White, Rollin H., assignor, by mesne assignments, to The White Company, Cleveland, Ohio. Flow-motor and valve operated thereby. No. 987,932; Mar. 28; Sp. p. 4635; Gaz. vol. 164; p. 831.
White, Rollin H., assignor, by mesne assignments, to The White Company, Cleveland, Ohio. Apparatus for generating and controlling the generation of superheated steam. No. 987,933; Mar. 28; Sp. p. 4637; Gaz. vol. 164; p. 832.
White, Rufus C., Los Angeles, Cal. Flying-machine. No. 1,008,761; Nov. 14; Sp. p. 2555; Gaz. vol. 172; p. 431.
White, Samuel K., assignor to The Smyth Manufacturing Company, Hartford, Conn. Embossing-press. No. 995,509; June 20; Sp. p. 3077; Gaz. vol. 167; p. 549.
White, Septimus T. E., Oklahoma, Okla., and J. E. White, New York, N. Y. Phonograph. No. 993,931; May 30; Sp. p. 6633; Gaz. vol. 166; p. 1195.
White Sewing Machine Company, The. (See Colegrove, Charles E., assignor.)
White Sewing Machine Company, The. (See Huffman and Lauffer, assignors.)
White, Stanley B., *et al.* (See Morley, Charles A., assignor.)
White, Thomas, Brooklyn, N. Y. Incandescing lamp. No. 983,336; Feb. 7; Sp. p. 168; Gaz. vol. 163; p. 29.
White, Thomas E., Philadelphia, Pa. Soot-blower. No. 984,871; Feb. 21; Sp. p. 3494; Gaz. vol. 163; p. 617.
White, Thomas E., Philadelphia, Pa. Apparatus for blowing soot. No. 996,180; June 27; Sp. p. 4583; Gaz. vol. 167; p. 817.
White, Warren B., North Abington, Mass. Welt for boots and shoes. No. 997,350; July 11; Sp. p. 1592; Gaz. vol. 168; p. 288.
White, William, Chicago, Ill. System of washing and filling locomotive-boilers. No. 1,005,385; Oct. 10; Sp. p. 1773; Gaz. vol. 171; p. 316.
White, William H., Columbus, Ohio. Dough-raiser. No. 997,527; July 11; Sp. p. 1926; Gaz. vol. 168; p. 345.
White, William N., Fortyfort, Pa. Automatic regulator for coal-chutes. No. 1,008,684; Nov. 14; Sp. p. 2394; Gaz. vol. 172; p. 404.
White, William S. (See White, Alpheus R., A. M., and W. S.)
White, William W., Huttonsville, W. Va. Wrench. No. 1,012,491; Dec. 19; Sp. p. 4644; Gaz. vol. 173; p. 797.
Whitehall, Samuel, South Bend, Ind. Box-fastening. No. 998,822; July 25; Sp. p. 4851; Gaz. vol. 168; p. 876.
Whitehead, C. H., *et al.* (See Lambert, Jay S., assignor.)
Whitehead, Charles G. (See Whitehead, Henry B. and C. G.)
Whitehead and Company. (See Jones, Albert E., assignor.)
Whitehead, Cornelius E., Olla, La. Road-grader. No. 999,934; Aug. 8; Sp. p. 1483; Gaz. vol. 169; p. 281.
Whitehead, Henry B. and C. G., Memphis, Tenn. Starting mechanism for internal-combustion engines. No. 991,577; May 9; Sp. p. 1615; Gaz. vol. 166; p. 297.
Whitehead & Hoag Company, The. (See Diefenbach, John C., assignor.)
Whitehead, Hugh G. (See Coleman, Lewis A., assignor.)
Whitehead, James. (See Mott and Whitehead.)
Whitehead, James, Philadelphia, Pa. Molder's tool. No. 984,985; Feb. 21; Sp. p. 3703; Gaz. vol. 163; p. 654.
Whitehead, John H., and G. Galloway, Leeds, England. Circle combing-machine. No. 986,616; Mar. 14; Sp. p. 1824; Gaz. vol. 164; p. 323.
Whitehead, Leo S., Wheeling, W. Va. Drill-chuck. No. 990,087; Apr. 18; Sp. p. 3831; Gaz. vol. 165; p. 663.
Whitehead, Leo S., Wheeling, W. Va. Milling-machine and the like. No. 993,426; May 30; Sp. p. 5570; Gaz. vol. 166; p. 1022.
Whitehead, Robert H., Whitley Bay, England. Document-filing device. No. 1,004,123; Sept. 26; Sp. p. 4301; Gaz. vol. 170; p. 765.
Whitehead, William H., Paterson, N. J. Fly-killer. No. 984,332; Feb. 14; Sp. p. 2346; Gaz. vol. 163; p. 397.
Whitehill, David B., North Clarendon, Pa. Slack-controlling device. No. 998,436; July 18; Sp. p. 3999; Gaz. vol. 168; p. 709.
Whitehouse, John T. (See Van Dorn and Whitehouse.)
Whitehurst, Bertram, Trenton, N. J. Faucet. No. 991,921; May 9; Sp. p. 2333; Gaz. vol. 166; p. 414.
Whitehurst, Joel S., San Jose, Cal. Adding-machine. No. 997,528; July 11; Sp. p. 1927; Gaz. vol. 168; p. 345.
Whitelaw, Albert E., Melbourne, Victoria, Australia. Blank for last-forms for upper-patterns for boots or shoes. No. 986,884; Mar. 14; Sp. p. 2402; Gaz. vol. 164; p. 415.
Whitelaw, Frederick J., Toronto, Ontario, Canada. Valve-removing device. No. 1,009,875; Nov. 28; Sp. p. 4947; Gaz. vol. 172; p. 894.
Whitelaw, Laurence S., London, England. Historical and educational puzzle. No. 994,227; June 6; Sp. p. 261; Gaz. vol. 167; p. 45.
Whiteley, Herbert D., Manchester, England. Life-guard or obstruction-remover for tram-cars and the like. No. 1,012,181; Dec. 19; Sp. p. 4019; Gaz. vol. 173; p. 692.
Whitely, Charles E. E., *et al.* (See Wierth, Oscar F., assignor.)
Whitely Exerciser Company. (See Fanning, George F., assignor.)
Whitely, William N. and W. N., Jr., Springfield, Ohio. Manure-spreader. No. 982,330; Jan. 24; Sp. p. 4768; Gaz. vol. 162; p. 826.
Whitely, William N., Jr. (See Whitely, William N. and W. N., Jr.)
Whiteman, George W., Philadelphia, Pa. Nut-lock. No. 986,110; Mar. 7; Sp. p. 749; Gaz. vol. 164; p. 120.
Whiteman, George W., Philadelphia, Pa. Tie and rail-securing means. No. 995,748; June 20; Sp. p. 3606; Gaz. vol. 167; p. 633.
Whiteman, Milo J., and J. Chehey, Cambridge, Nebr. Drill attachment. No. 981,728; Jan. 17; Sp. p. 3465; Gaz. vol. 162; p. 587.
Whiteside, Donald I., San Francisco, Cal. Whetstone-case. No. 1,008,878; Nov. 14; Sp. p. 2791; Gaz. vol. 172; p. 470.
Whiteside, William A. (See Henley and Whiteside.)
Whitestine, Paris L., Spickard, Mo. Fruit-drier. No. 993,932; May 30; Sp. p. 6636; Gaz. vol. 166; p. 1195.
Whitfield, Fred. (See Woollett, Ernest, assignor.)
Whitfield, Harry, London, and S. L. Whitfield, Bedford Park, England. Suction dust-removing apparatus. No. 988,158; Mar. 28; Sp. p. 5116; Gaz. vol. 164; p. 907.
Whitfield, Robert. (See Smith and Whitfield.)
Whitfield, Samuel L. (See Whitfield, Harry and S. L.)
Whitford, John, and J. A. Mills, Johannesburg, Transvaal. Means for loading skips or other vehicles in mine-shafts and the like. No. 1,001,106; Aug. 22; Sp. p. 4133; Gaz. vol. 169; p. 757.
Whitford, John W. (See Gessert and Whitford.)
Whitin Machine Works, The. (See Aldrich, William O., assignor.)
Whitin Machine Works, The. (See Cook, Richard H., assignor.)
Whitin Machine Works, The. (See Kimball, Harry G., assignor.)
Whitin Machine Works, The. (See Owen, Oscar L., assignor.)
Whitin Machine Works, The. (See Rooney, Elwin H., assignor.)
Whitin Machine Works, The. (See Wood, Hiram C., assignor.)
Whiting, Herman E., assignor to Garlock Auto Specialty Company, Palmyra, N. Y. Air-purifying device for internal-combustion engines. No. 1,005,386; Oct. 10; Sp. p. 1775; Gaz. vol. 171; p. 317.
Whiting, Horatio, New York, N. Y. Fall-rope carrier. No. 983,526; Feb. 7; Sp. p. 570; Gaz. vol. 163; p. 91.
Whiting, Junius F., Springfield, Ohio. Plow. No. 991,810; May 9; Sp. p. 2105; Gaz. vol. 166; p. 377.

Whiting, Louis S., W. M. Koppes, and W. H. Gorham, assignors to The Aultman & Taylor Machinery Company, Mansfield, Ohio. Conveyer-trough. No. 985,872; Mar. 7; Sp. p. 233; Gaz. vol. 164; p. 38.
Whiting, Samuel, Athol, Mass. Vehicle-wheel. No. 1,001,329; Aug. 22; Sp. p. 4588; Gaz. vol. 169; p. 830.
Whiting, William L., assignor of one-half to C. H. Kuebler, Baltimore, Md. Garment-fastener. No. 996,181; June 27; Sp. p. 4584; Gaz. vol. 167; p. 818.
Whitley, Alfred A., Bury, England. Clip for use in stentering-machines. No. 996,441; June 27; Sp. p. 5175; Gaz. vol. 167; p. 907.
Whitley, Jesse S., and A. F. Gaylord, Chicago, Ill. Bar-bell. No. 990,791; Apr. 25; Sp. p. 5452; Gaz. vol. 165; p. 938.
Whitley, William P., assignor to Rawlings Manufacturing Company, St. Louis, Mo. Base-ball glove. No. 1,000,567; Aug. 15; Sp. p. 2907; Gaz. vol. 169; p. 533.
Whitlock, John N., Aubrey, Tex. Framing-tool. No. 1,004,222; Sept. 26; Sp. p. 4514; Gaz. vol. 170; p. 799.
Whitlock, Julius A., Newark, N. J. Circular pleasure-swing. No. 987,419; Mar. 21; Sp. p. 3509; Gaz. vol. 164; p. 627.
Whitlock Printing Press Mfg. Co., The. (See Huson, Winfield S., assignor.)
Whitlock, Ross, Estancia, N. Mex. Clip. No. 981,829; Jan. 17; Sp. p. 3691; Gaz. vol 162; p. 624.
Whitlock, William T., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire for vehicle-wheels. No. 1,013,085; Dec. 26; Sp. p. 5985; Gaz. vol. 173; p. 1047.
Whitman, Frank V., Walkerville, Mont. Bicycle-gear. No. 981,729; Jan. 17; Sp. p. 3466; Gaz. vol. 162; p. 587.
Whitman, Henry L. (See Gibson and Whitman.)
Whitman, Henry L., St. Louis, Mo. Baling-press. No. 1,006,327; Oct. 17; Sp. p. 3882; Gaz. vol. 171; p. 679.
Whitmer, John C., Lordsburg, assignor of one-half to B. E. Zug, Hanford, Cal. Double-plunger pump. No. 984,872; Feb. 21; Sp. p. 3495; Gaz. vol. 163; p. 617.
Whitmore, Edward E., Chicago, Ill., assignor to Curtain Supply Company, Newark, N. J. Curtain-roller. No. 1,007,830; Nov. 7; Sp. p. 409; Gaz. vol. 172; p. 64.
Whitney, Eddy R., Lynn, Mass., assignor to General Electric Company. Bearing and bearing-box. No. 982,165; Jan. 17; Sp. p. 4402; Gaz. vol. 162; p. 737.
Whitney, Egbert, Omaha, Nebr. Scaffold. No. 998,270; July 18; Sp. p. 3637; Gaz. vol. 168; p. 650.
Whitney, Egbert, Omaha, Nebr. Wall-grip. No. 1,007,759; Nov. 7; Sp. p. 239; Gaz. vol. 172; p. 39.
Whitney, Frank, Hubbard Woods, Ill. Roller-bearing. No. 983,792; Feb. 7; Sp. p. 1139; Gaz. vol. 163; p. 183.
Whitney, Frank, Hubbard Woods, Ill. Time indicator or marker for timepieces. No. 998,312; July 18; Sp. p. 3754; Gaz. vol. 168; p. 667.
Whitney, Frederick S., Seattle, Wash. Non-refillable bottle. No. 1,004,513; Sept. 26; Sp. p. 5095; Gaz. vol. 170; p. 897.
Whitney, George E., Lane, S. D. Weed-exterminator. No. 981,508; Jan. 10; Sp. p. 3013; Gaz. vol. 162; p. 491.
Whitney, George E., Yonkers, N. Y., assignor to The International Pavement Company, Hartford, Conn. Press. No. 1,003,561; Sept. 19; Sp. p. 2979; Gaz. vol. 170; p. 543.
Whitney, George E., Yonkers, N. Y., assignor to The International Pavement Company, Hartford, Conn. Asphalt-press. No. 1,007,831; Nov. 7; Sp. p. 412; Gaz. vol. 172; p. 64.
Whitney, George E., Yonkers, N. Y., assignor to G. B. Upham, Boston, Mass. Manufacturing compressed asphalt paving-blocks. No. 1,007,832; Nov. 7; Sp. p. 425; Gaz. vol. 172; p. 64.
Whitney, John L., Marion, Ind. Trap. No. 986,254; Mar. 7; Sp. p. 1043; Gaz. vol. 164; p. 167.
Whitney, Loren L. (See Bauer and Whitney.)
Whitney, Ruel W., Cleveland, Ohio. Fountain-pen filler. No. 1,005,387; Oct. 10; Sp. p. 1778; Gaz. vol. 171; p. 317.
Whitney, Thomas J., Norristown, Pa. Automatic feeder for steam-boilers. No. 998,142; July 18; Sp. p. 3347; Gaz. vol. 168; p. 603.
Whitney, Willard R., *et al.* (See Howe, Arthur L., assignor.)
Whitney, William A., Rockford, Ill. Nut-lock. No. 986,255; Mar. 7; Sp. p. 1044; Gaz. vol. 164; p. 168.
Whitney, William A., assignor to W. A. Whitney Manufacturing Company, Rockford, Ill. Punch. (Reissue.) No. 13,313; Nov. 14; Sp. p. 3131; Gaz. vol. 172; p. 521.
Whitney, William M., Winchendon, Mass. Welding metal. No. 986,528; Mar. 14; Sp. p. 1638; Gaz. vol. 164; p. 291.
Whitney, Willis R., Schenectady, N. Y., assignor to General Electric Company. Incandescent electric lamp. No. 991,578; May 9; Sp. p. 1619; Gaz. vol. 166; p. 298.
Whitney, Willis R., Schenectady, N. Y., assignor to General Electric Company. Metal-working. No. 1,008,762; Nov. 14; Sp. p. 2556; Gaz. vol. 172; p. 431.
Whittingham, George H., Baltimore, Md., assignor to Monitor Manufacturing Company of Baltimore City. Rheostat. No. 1,008,000; Nov. 7; Sp. p. 773; Gaz. vol. 172; p. 122.
Whittington, Thomas J., Gloster, Miss. Peanut-digger. No. 1,010,555; Dec. 5; Sp. p. 336; Gaz. vol. 173; p. 54.
Whiton, Edward V. (See Beers, Randall, and Whiton.)
Whittaker, Arnold R. (See Jeavons and Whittaker.)
Whittaker, George S., Gloversville, N. Y. Making dental plates. No. 994,895; June 13; Sp. p. 1777; Gaz. vol. 167; p. 313.
Whittaker, Leland J., deceased, Fulton; L. B. Whittaker, administratrix, Hamilton, N. Y. Folding umbrella. No. 988,956; Apr. 4; Sp. p. 1387; Gaz. vol. 165; p. 223.
Whittaker, Lora B., administratrix. (See Whittaker, Leland J.)
Whittall, Matthew J. (See Hugo, Charles, assignor.)
Whittall, Matthew P. (See Farmer, Frederick, assignor.)
Whitted, Robert H., Crawsfordville, Ind. Mail-box. No. 991,579; May 9; Sp. p. 1620; Gaz. vol. 166; p. 299.
Whittemore, Herbert L., Urbana, Ill. Metal casting. No. 1,002,889; Sept. 12; Sp. p. 1596; Gaz. vol. 170; p. 277.
Whittemore, John Q. A. (See Burke, Edward J., assignor.)
Whittier, Albert E., Bristol, Conn. Oven-thermometer. No. 1,003,387; Sept. 12; Sp. p. 2616; Gaz. vol. 170; p. 449.
Whittier, Walter H., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerator-lining. No. 984,873; Feb. 21; Sp. p. 3496; Gaz. vol. 163; p. 618.
Whittingham, George H., Pikesville, Md., assignor to Monitor Manufacturing Company of Baltimore City. Apparatus for controlling electric motors. No. 982,913; Jan. 31; Sp. p. 6009; Gez. vol. 162; p. 1053.
Whittle, William G. (See Cieslinskie and Whittle.)
Whittlesey, John J. (See Kinnell, George N., assignor.)
Whittlesey, Watson G., Gilmore City, Iowa. Cooling device. No. 997,430; July 11; Sp. p. 1733; Gaz. vol. 168; p. 314.
Whittome, John T., Tavistock, England. Combined street-sweeper and collector. No. 1,001,107; Aug. 22; Sp. p. 4131; Gaz. vol. 169; p. 757.
Whitton, James A., assignor of one-half to Y. R. Del Valle, Los Angeles, Cal. Axle. No. 982,403; Jan. 24; Sp. p. 4920; Gaz. vol. 162; p. 852.
Whitty, George S., assignor to F. W. Devoe & C. T. Raynolds Company, New York, N. Y. Dyeing compound and producing the same. No. 982,194; Jan. 17; Sp. p. 4461; Gaz. vol. 162; p. 748.
Whitworth, James H., Providence, R. I. Lug-strap. No. 1,012,950; Dec. 26; Sp. p. 5707; Gaz. vol. 173; p. 1001.
Whitworth, Joseph, Creston, Ohio. Whiffletree attachment. No. 1,001,790; Aug. 29; Sp. p. 5532; Gaz. vol. 169; p. 1016.
Whyland, Cyrus A., Marion, Mass. Shoe for tires. No. 1,012,951; Dec. 26; Sp. p. 5708; Gaz. vol. 173; p. 1001.
Wi-Ko Electric Company, The. (See Korf, Samuel, assignor.)
Wiard, John B., Lynn, Mass., assignor to General Electric Company. Driving-wheel. No. 996,384; June 27; Sp. p. 5039; Gaz. vol. 167; p. 887.
Wiard, John B., Lynn, Mass., assignor to General Electric Company. Circuit-controlling device. No. 998,662; July 25; Sp. p. 4490; Gaz. vol. 168; p. 820.
Wiard, John B., Lynn, Mass., assignor to General Electric Company. Induction-motor. No. 1,003,839; Sept. 19; Sp. p. 3584; Gaz. vol. 170; p. 637.
Wiart, Ernest, La Ferté-Bernard, France. Superheating-generator. No. 999,284; Aug. 1; Sp. p. 173; Gaz. vol. 169; p. 33.
Wiberg, Allan, Stocksund, Sweden. Adding-machine. No. 1,007,508; Oct. 31; Sp. p. 6501; Gaz. vol. 171; p. 1176.
Wiberg, Sven H., Reading, assignor to Bong Binder Company, Boston, Mass. Perforator. No. 987,201; Mar. 21; Sp. p. 3054; Gaz. vol. 164; p. 553.
Wichertjes, Arend, Chicago, Ill. Potato-digging machine. No. 987,202; Mar. 21; Sp. p. 3056; Gaz. vol. 164; p. 554.
Wichertjes, Arend, Chicago, Ill. Tile-machine. No. 1,000,469; Aug. 15; Sp. p. 2679; Gaz. vol. 169; p. 498.
Wichertjes, Arend, Chicago, Ill. Top-cutting mechanism for potato-diggers. No. 1,003,680; Sept. 19; Sp. p. 3257; Gaz. vol. 170; p. 586.
Wichman, Frank S., Culebra, Panama. Automatic tripping mechanism for steam-shovels. No. 980,375; Jan. 3; Sp. p. 400; Gaz. vol. 162; p. 70.
Wichmann, Georg, assignor to Chemische Fabrik auf Actien, (vorm. E. Schering,) Berlin, Germany. Alkaline albumose-silver compound. No. 1,002,547; Sept. 5; Sp. p. 818; Gaz. vol. 170; p. 120.
Wichmann, Georg, assignor to Chemische Fabrik auf Actien, (vorm. E. Schering,) Berlin, Germany. Albumose-silver-ammonio product. No. 1,002,548; Sept. 5; Sp. p. 819; Gaz. vol. 170; p. 120.
Wick, Joseph, *et al.* (See Farmer, John P., assignor.)
Wicke, George H., Richmond Hill, N. Y. Eyelet-tape. No. 1,000,765; Aug. 15; Sp. p. 3340; Gaz. vol. 169; p. 602.
Wickel, Fritz C., Paris, France. Embossing device. No. 1,009,456; Nov. 21; Sp. p. 4108; Gaz. vol. 172; p. 708.
Wickel, Fritz C., Paris, France. Apparatus for hot and rilievo embossing. No. 1,009,457; Nov. 21; Sp. p. 4110; Gaz. vol. 172; p. 709.
Wickens, John F. (See Jarman, Alfred J., assignor.)
Wicker, Edison M., Cambridge, Mass. Ratchet-wrench. No. 984,333; Feb. 14; Sp. p. 2347; Gaz. vol. 163; p. 397.

Alphabetical list of patentees—Continued.

Wickers, Walter J., Brooklyn, N. Y. Multicolor-printing press. No. 985,873; Mar. 7; Sp. p. 235; Gaz. vol. 164; p. 39.
Wickersheim, Karl, New York, N. Y. Hat-conformator. No. 1,011,297; Dec. 12; Sp. p. 2030; Gaz. vol. 173; p. 349.
Wickes, Benjamin C., Auburn, N. Y. Thermostatic damper-controlling apparatus. No. 982,331; Jan. 24; Sp. p. 4772; Gaz. vol. 162; p. 826.
Wickes Brothers. (See Graham, John L., assignor.)
Wickes, Joseph A., Somerville, Mass. Marking-tool. No. 1,005,090; Oct. 3; Sp. p. 1106; Gaz. vol. 171; p. 187.
Wickes, Milton O., Northampton, Mass. Violin-tuning peg. No. 980,578; Jan. 3; Sp. p. 875; Gaz. vol. 162; p. 140.
Wickey, Andrew, East Chicago, Ind. Water-hoist. No. 989,741; Apr. 18; Sp. p. 3109; Gaz. vol. 165; p. 546.
Wickey, Andrew, East Chicago, Ind. Baling-press. No. 1,003,224; Sept. 12; Sp. p. 2294; Gaz. vol. 170; p. 393.
Wickham, Horace J. (See Shepard and Wickham.)
Wickizer, Hite. (See Judd, Chauncey W., assignor.)
Wickliffe, Charles E., assignor of one-half to T. H. O'Brien, New York, N. Y. Shade-bracket. No. 980,376; Jan. 3; Sp. p. 403; Gaz. vol. 162; p. 70.
Wickline, Everett A., Olympia, Wash. Change-maker. No. 1,007,167; Oct. 31; Sp. p. 5772; Gaz. vol. 171; p. 1056.
Wickman, Henry J., and L. G. Watkins, Howell, Mich.; said Wickman assignor to said Watkins. Fish-stringer. No. 1,004,324; Sept. 26; Sp. p. 4709; Gaz. vol. 170; p. 832.
Wicks, Albert, Guelph, Ontario, Canada, assignor of one-half to N. A. Wicks and one-half to H. J. Compton, Woodstock, Ill. Electric iron. No. 999,421; Aug. 1; Sp. p. 451; Gaz. vol. 169; p. 79.
Wicks, Norman A., *et al.* (See Wicks, Albert, assignor.)
Widenhofer, Michael J., Perkasie, Pa. Cigar-rack. No. 1,006,328; Oct. 17; Sp. p. 3886; Gaz. vol. 171; p. 679.
Widman, John E., Chicago, Ill. Arch-support and foot-rest. No. 999,002; July 25; Sp. p. 5279; Gaz. vol. 168; p. 940.
Widmann, Florian W., Avon, Minn. Calf-weaner. No. 987,521; Mar. 21; Sp. p. 3703; Gaz. vol. 164; p. 661.
Widmann, Frank C., Cleveland, Ohio. Ring-mold. No. 1,000,470; Aug. 15; Sp. p. 2684; Gaz. vol. 169; p. 498.
Widmayer, Frank B., New York, N. Y. Handcuff. No. 985,560; Feb. 28; Sp. p. 5011; Gaz. vol. 163; p. 887.
Widmayer, Frank B., and V. E. Davis, New York, N. Y. Rivet-removing device for chains. No. 1,000,867; Aug. 15; Sp. p. 3559; Gaz. vol. 169; p. 639.
Wiebe, John, Petaluma, Cal. Egg-drier. No. 992,622; May 16; Sp. p. 3855; Gaz. vol. 166; p. 687.
Wiebens, Fred, San Diego, Cal. Lubricator. No. 997,724; July 11; Sp. p. 2359; Gaz. vol. 168; p. 415.
Wiebking, Hardinge & Co. (See Hardinge, Henry H., assignor.)
Wiechmann, John, Albany, N. Y. Boiler-tube cleaner. No. 982,652; Jan. 24; Sp. p. 5427; Gaz. vol. 162; p. 937.
Wieck, Henry H., and W. L. Larson, Agate, N. D. Pump-rod connection. No. 1,010,334; Nov. 28; Sp. p. 5884; Gaz. vol. 172; p. 1048.
Wiede, Georg A., Weissenborn, near Zwickau, Germany. Safety-lamp. No. 1,011,543; Dec. 12; Sp. p. 2575; Gaz. vol. 173; p. 436.
Wiedeke, Otto H., Dayton, Ohio. Boiler-tube expander. No. 1,007,017; Oct. 24; Sp. p. 5410; Gaz. vol. 171; p. 948.
Wiedenbeck, George, Alameda, Cal. Splicing-shield for trolley-wires. No. 995,643; June 20; Sp. p. 3389; Gaz. vol. 167; p. 597.
Wieder, Henry G., London, England. Sound reproducing and recording instrument. No. 1,011,298; Dec. 12; Sp. p. 2032; Gaz. vol. 173; p. 349.
Wieder, Thomas H., Warren, Ohio. Hose-repairer. No. 985,648; Feb. 28; Sp. p. 5184; Gaz. vol. 163; p. 917.
Wiederhold, Oscar, Jersey City, N. J. Making incandescent lighting-bodies. No. 996,182; June 27; Sp. p. 4586; Gaz. vol. 167; p. 818.
Wiederholdt Construction Company. (See Wiederholdt, Ernest F., assignor.)
Wiederholdt, Ernest F., assignor to Wiederholdt Construction Company, St. Louis, Mo. Tile. No. 989,677; Apr. 18; Sp. p. 2976; Gaz. vol. 165; p. 524.
Wiederholdt, Ernest F., St. Louis, Mo., assignor to Wiederholdt Construction Company, Chicago, Ill. Wall for silos and the like. No. 992,835; May 23; Sp. p. 4290; Gaz. vol. 166; p. 791.
Wiederkehr, Edward, Taylor, Tex. Razor-handle. No. 988,418; Apr. 4; Sp. p. 276; Gaz. vol. 165; p. 45.
Wiederseim, William C., *et al.* (See Anck, John M., assignor.)
Wiedersheim, John A., *et al.* (See Anck, John M., assignor.)
Wiedersheim, John A., Philadelphia, Pa. Fender for cars and other vehicles. No. 1,007,318; Oct. 31; Sp. p. 6094; Gaz. vol. 171; p. 1110.
Wiegand, Henry J., Milwaukee, Wis. Loose-leaf binder. No. 1,005,388; Oct. 10; Sp. p. 1780; Gaz. vol. 171; p. 318.
Wiegand, Henry J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Reinforced grid resistance. No. 982,557; Jan. 24; Sp. p. 5250; Gaz. vol. 162; p. 905.
Wiegman Stair and Roof Gage Company. (See Wiegman, William H., assignor.)
Wiegman, William H., Fort Wayne, Ind., assignor to Wiegman Stair and Roof Gage Company. Stair-gage. No. 1,006,815; Oct. 24; Sp. p. 4976; Gaz. vol. 171; p. 881.
Wieland, Charles G., New York, N. Y. Screw-propeller. No. 1,012,308; Dec. 19; Sp. p. 4292; Gaz. vol. 173; p. 736.
Wieland, Fred W., Duluth, Minn. Boat. No. 998,437; July 18; Sp. p. 4001; Gaz. vol. 168; p. 710.
Wieland, George A., Duluth, Minn. Floating structure. No. 1,004,718; Oct. 3; Sp. p. 375; Gaz. vol. 171; p. 62.
Wieland, George F., *et al.* (See Briegel, Johann G., assignor.)
Wielandt, Wilhelm, Oldenburg, Germany. Peat-dredging machine. No. 996,898; July 4; Sp. p. 619; Gaz. vol. 168; p. 101.
Wieler, Bernard, A. Beuligmann, and J. Ayres, Mount Carmel, Ill. Transplanter. No. 981,509; Jan. 10; Sp. p. 3015; Gaz. vol. 162; p. 491.
Wiemann, William P., Pittsburg, Pa. Water-purifying system for steam-boilers. No. 982,107; Jan. 17; Sp. p 4309; Gaz. vol. 162; p. 719.
Wienand, Heinrich, Frankfort-on-the-Main, Germany. Artificial tooth. No. 987,203; Mar. 21; Sp. p. 3058; Gaz. vol. 164; p. 554.
Wiener, Emil, Vienna, Austria-Hungary. Sterilizing milk and milk products. No. 1,006,992; Oct. 24; Sp. p. 5360; Gaz. vol. 171; p. 940.
Wiener, Louis. (See Olsen, Ole, assignor.)
Wiens, Arnold, Bitterfeld, Germany. Manufacture of formates. No. 993,331; May 23; Sp. p. 5344; Gaz. vol. 166; p. 958.
Wienss, Ernst, and R. D. Miller, Spokane, Wash. Loose-leaf binder. No. 992,465; May 16; Sp. p. 3509; Gaz. vol. 166; p. 632.
Wierth, Oscar F., assignor of one-fourth to C. E. E. Whitely and one-fourth to E. Hoffman, New York, N. Y. Collapsible tube and ejector therefor. No. 980,377; Jan. 3; Sp. p. 404; Gaz. vol. 162; p. 71.
Wiese, Hermann, Wallaceburg, Ontario, Canada. Refining sugar. No. 991,580; May 9; Sp. p. 1621; Gaz. vol. 166; p. 299.
Wieser, Egidius, Passaic, N. J. Mail-bag catcher. No. 1,000,653; Aug. 15; Sp. p. 3110; Gaz. vol. 169; p. 564.
Wieser, Karl, Bredeney, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Mechanical time-fuse. No. 1,003,078; Sept. 12; Sp. p. 1964; Gaz. vol. 170; p. 340.
Wieser, Karl, Bredeney, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Projectile. No. 1,003,079; Sept. 12; Sp. p. 1966; Gaz. vol. 170; p. 341.
Wieser, Karl, Bredeney, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fuse-housing. No. 1,003,080; Sept. 12; Sp. p. 1968; Gaz. vol. 170; p. 341.
Wieser, Karl, and W. Schwartz, Bredeney, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Impact-fuse. No. 988,610; Apr. 4; Sp. p. 690; Gaz. vol. 165; p. 110.
Wiesner, Henry, Chicago, Ill. Sheet-metal piston for reciprocating engines. No. 984,250; Feb. 14; Sp. p. 2172; Gaz. vol. 163; p. 368.
Wiess, John, Chehalis, and W. McArthur, Tenino, Wash. Attachment for street-sweepers. No. 990,322; Apr. 25; Sp. p. 4382; Gaz. vol. 165; p. 776.
Wiestner, John H., Philadelphia, Pa. Soft-coal crusher. No. 984,406; Feb. 14; Sp. p. 2483; Gaz. vol. 163; p. 420.
Wiet, Eugene, San Francisco, Cal. Beading-tool for boiler-tubes. No. 988,054; Mar. 28; Sp. p. 4921; Gaz. vol. 164; p. 873.
Wigelius, Sven G., Eskilstuna, Sweden. Internal-combustion engine. No. 997,643; July 11; Sp. p. 2186; Gaz. vol. 168; p. 387.
Wigelius, Sven G., Eskilstuna, Sweden. Gas-motor. No. 997,887; July 11; Sp. p. 2755; Gaz. vol. 168; p. 472.
Wiggen, Peter, Chicago, Ill. Pneumatic-action for pianos. No. 998,313; July 18; Sp. p. 3755; Gaz. vol. 168; p. 667.
Wiggins, Alfred, East Lexington, Mass. Winding mechanism for moving-picture machines. No. 980,378; Jan. 3; Sp. p. 407; Gaz. vol. 162; p. 71.
Wiggins, Edward J., assignor, by mesne assignments, to Kerogas Company, Chicago, Ill. Preparing liquid hydrocarbon for combustion. (Reissue.) No. 13,266; July 4; Sp. p. 1387; Gaz. vol. 168; p. 227.
Wiggins, Henry H., Pittsburg, Pa. Tie and rail-fastener. No. 1,001,569; Aug. 22; Sp. p. 5046; Gaz. vol. 169; p. 910.
Wiggins, Henry H., Pittsburg, Pa. Tie and rail-fastener. No. 1,002,103; Aug. 29; Sp. p. 6189; Gaz. vol. 169; p. 1119.
Wiggins, R. M. (See Sheetz, Edwin R., assignor.)
Wiggins, Robert A., Palmerston North, New Zealand. Mechanism of milking-machines. No. 981,730; Jan. 17; Sp. p. 3468; Gaz. vol. 162; p. 588.
Wiggins, Robert E., Natchez, Miss. Writing-pad holder. No. 1,006,329; Oct. 17; Sp. p. 3888; Gaz. vol. 171; p. 679.
Wigginton, George P., Kalamazoo, Mich. Temporary binder. No. 1,010,556; Dec. 5; Sp. p. 337; Gaz. vol. 173; p. 54.

Alphabetical list of patentees—Continued.

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Wigglesworth, Albert W., Chicago, Ill. Self-oiling pulley. No. 980,579; Jan. 3; Sp. p. 876; Gaz. vol. 162; p. 141.
Wight, Everett W., assignor to Diamond Machine Company, Providence, R. I. Metal-working machine. No. 1,009,948; Nov. 28; Sp. p. 5092; Gaz. vol. 172; p. 918.
Wigle, Wilson B., Lompoc, Cal. Combination standard and hydraulic drilling-rig. No. 992,527; May 16; Sp. p. 3651; Gaz. vol. 166; p. 655.
Wigle, Wilson B., Santa Maria, Cal. Heating apparatus for oil-wells. No. 1,012,777; Dec. 26; Sp. p. 5287; Gaz. vol. 173; p. 942.
Wike, Berl H., assignor of one-half to E. Keller, Barry, Ill. Fountain blacking-brush. No. 1,006,993; Oct. 24; Sp. p. 5362; Gaz. vol. 171; p. 941.
Wiki, Edward, Lucerne, Switzerland. Condenser. No. 892,404; Jan. 24; Sp. p. 4921; Gaz. vol. 162; p. 852.
Wiki, Edward, Lucerne, Switzerland. Condenser. No. 982,405; Jan. 24; Sp. p. 4924; Gaz. vol. 162; p. 853.
Wiking, Anders F., Stockholm, Sweden. Self-unloading barge. No. 986,529; Mar. 14; Sp. p. 1639; Gaz. vol. 164; p. 292.
Wikschtröm, Jakob, Dusseldorf, Germany. Nail-cutting dies. No. 990,792; Apr. 25; Sp. p. 5453; Gaz. vol. 165; p. 938.
Wikschtröm, Jakob, Dusseldorf, Germany. Wire-nail-making machine. No. 1,011,545; Dec. 12; Sp. p. 2577; Gaz. vol. 173; p. 436.
Wilberg, Henry A., Nome, N. D. Combination attachment for plows. No. 1,005,389; Oct. 10; Sp. p. 1782; Gaz. vol. 171; p. 318.
Wilbert, Leonard J., Ingram, Wis. Curtain-rod. No. 990,937; May 2; Sp. p. 232; Gaz. vol. 166; p. 41.
Wilbur, Belden H. G., assignor of one-third to G. S. Elstun, Colorado Springs, Colo. Harrow attachment for plows. No. 998,823; July 25; Sp. p. 4853; Gaz. vol. 168; p. 876.
Wilbur, Bert E. (See Macy and Wilbur.)
Wilbur, Francis P., Milwaukee, Wis. Hydraulic-power air-compressor. No. 1,005,911; Oct. 17; Sp. p. 2937; Gaz. vol. 171; p. 532.
Wilbur, Samuel P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-lamp. No. 989,518; Apr. 11; Sp. p. 2597; Gaz. vol. 165; p. 438.
Wilbur, Samuel P., Pittsburg, Pa., assignor to Nernst Lamp Company. Electric lamp. No. 1,000,471; Aug. 15; Sp. p. 2687; Gaz. vol. 169; p. 498.
Wilburn, Hugh H., Condon, Oreg. Locking mechanism for levers. No. 992,623; May 16; Sp. p. 3856; Gaz. vol. 166; p. 687.
Wilck, Ulrich, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Adjusting device for fuses. No. 988,750; Apr. 4; Sp. p. 990; Gaz. vol. 165; p. 157.
Wilcke, Richard, Friedenau, near Berlin, Germany. Propeller for aerial vehicles. No. 996,547; June 27; Sp. p. 5375; Gaz. vol. 167; p. 941.
Wilcox, Charles E., Bakersfield, Cal. Well-drilling tool. No. 1,002,793; Sept. 5; Sp. p. 1351; Gaz. vol. 170; p. 205.
Wilcox, Clark B., Union City, Mich. Automobile starting device. No. 989,678; Apr. 18; Sp. p. 2977; Gaz. vol. 165; p. 524.
Wilcox, Crittenden & Company. (See Birdsey, Seeley P., assignor.)
Wilcox, Ernest C., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Multiple-unit coil. No. 999,534; Aug. 1; Sp. p. 671; Gaz. vol. 169; p. 113.
Wilcox, Ernest C., and C. Cuno, Meriden, Conn. Shock-absorber. No. 982,914; Jan. 31; Sp. p. 6016; Gaz. vol. 162; p. 1053.
Wilcox, Ernest W., *et al.* (See Barber, Johnson N., assignor.)
Wilcox, Frank E., *et al.* (See Eckels, George M., assignor.)
Wilcox, Frank E., assignor of one-half to H. C. Brown, Mechanicsburg, Pa. Fifth-wheel. No. 1,012,778; Dec. 26; Sp. p. 5290; Gaz. vol. 173; p. 942.
Wilcox, Frank M., Lyme, Conn. Pole. No. 986,335; Mar. 7; Sp. p. 1207; Gaz. vol. 164; p. 195.
Wilcox, Frederick C., Keene, N. H. Hair ornament. No. 1,004,124; Sept. 26; Sp. p. 4303; Gaz. vol. 170; p. 765.
Wilcox, Henry, Newark, N. J., assignor to Greene, Tweed & Co., New York, N. Y. Door-check. No. 984,118; Feb. 14; Sp. p. 1879; Gaz. vol. 163; p. 322.
Wilcox, Henry S., assignor to Troy Laundry Machinery Company, Limited, Chicago, Ill. Plaiting-machine. No. 1,000,703; Aug. 15; Sp. p. 3212; Gaz. vol. 169; p. 581.
Wilcox, Herbert A., Philadelphia, Pa., assignor to J. W. Schloss & Co., New York, N. Y. Display-packet. No. 989,935; Apr. 18; Sp. p. 3531; Gaz. vol. 165; p. 613.
Wilcox, Jacob, Amlin, Ohio. Ground-anchor. No. 1,002,350; Sept. 5; Sp. p. 397; Gaz. vol. 170; p. 56.
Wilcox, John D., Neosho, Mo. Door-latch. No. 980,379; Jan. 3; Sp. p. 409; Gaz. vol. 162; p. 71.
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Hopper mechanism. No. 1,001,791; Aug. 29; Sp. p. 5534; Gaz. vol. 169; p. 1016.
Wilcox, Theodore B., Newark, N. J., assignor to The Hastings Developing Company, New York, N. Y. Apparatus for the manufacture of bottle-caps. No. 991,581; May 9; Sp. p. 1623; Gaz. vol. 166; p. 299.
Wilcox & White Company, The. (See Hosley, Nelson D., assignor.)
Wilcox & White Company, The. (See Van Yorx, Percival K., assignor.)
Wilcox, William L., and W. J. Benson, Cleveland, Ohio. Rotary meter. No. 1,001,722; Aug. 29; Sp. p. 5384; Gaz. vol. 169; p. 993.
Wild, Irving L., Red Bank, N. J., assignor of one-half to T. S. Clark, Brooklyn, N. Y. Printing color attachment. No. 986,530; Mar. 14; Sp. p. 1641; Gaz. vol. 164; p. 292.
Wild, Frederick W., Jr., Baltimore, Md., assignor to Burt Machine Company. Labeling-machine. No. 1,011,299; Dec. 12; Sp. p. 2034; Gaz. vol. 173; p. 349.
Wild, Günther P., assignor to F. W. Schmidt, Philadelphia, Pa. Thermostat. No. 1,012,952; Dec. 26; Sp. p. 5709; Gaz. vol. 173; p. 1001.
Wild, Günther P., assignor to F. W. Schmidt, Philadelphia, Pa. Thermostat. No. 1,012,953; Dec. 26; Sp. p. 5711; Gaz. vol. 173; p. 1002.
Wild, Max, Stuttgart, Germany. Sparking plug for internal-combustion engines. No. 1,004,325; Sept. 26; Sp. p. 4710; Gaz. vol. 170; p. 833.
Wilde, Percy R., Bath, England. Crutch. No. 989,463; Apr. 11; Sp. p. 2473; Gaz. vol. 165; p. 418.
Wilder, Charles, San Diego, Cal. Playing-card holder. No. 986,665; Mar. 14; Sp. p. 1938; Gaz. vol. 164; p. 341.
Wilder, Edward S., assignor to Wilder-Strong Implement Company, Monroe, Mich. Land-roller. No. 1,009,122; Nov. 21; Sp. p. 3325; Gaz. vol. 172; p. 588.
Wilder, Robert R., Battle Creek, Mich. Fireproof box. No. 1,004,612; Oct. 3; Sp. p. 139; Gaz. vol. 171; p. 24.
Wilder-Strong Implement Company. (See Wilder, Edward S., assignor.)
Wilder, William W., Savannah, Ga. Pump. No. 986,035; Mar. 7; Sp. p. 601; Gaz. vol. 164; p. 97.
Wildermann, Meyer, Ealing, London, England. Electrolytic cells for the electrolysis of alkaline salts. No. 998,063; July 18; Sp. p. 3173; Gaz. vol. 168; p. 576.
Wilderson, Clinton G., assignor to The Crescent Machine Company, Leetonia, Ohio. Variable-feed mechanism. No. 992,700; May 16; Sp. p. 3998; Gaz. vol. 166; p. 713.
Wildeson, Frank. (See Harden and Wildeson.)
Wildman, Frank B., Norristown, Pa. Knitting-machine. No. 1,003,081; Sept. 12; Sp. p. 1969; Gaz. vol. 170; p. 341.
Wildman, James W., Sanford, Fla. Folding partition. No. 1,008,685; Nov. 14; Sp. p. 2396; Gaz. vol. 172; p. 404.
Wildman, Linley, assignor of one-fourth to W. E. Renner, Ellwood City, Pa. Nut-lock. No. 1,010,207; Nov. 28; Sp. p. 5624; Gaz. vol. 172; p. 1006.
Wildman, Linley, assignor of one-fourth to J. E. Wright, Ellwood City, Pa. Combined rail chair and fastener. No. 1,010,995; Dec. 5; Sp. p. 1311; Gaz. vol. 173; p. 208.
Wildman Manufacturing Company. (See Butz, Walter D., assignor.)
Wildman Mfg. Co. (See Ballard, George L., assignor.)
Wildman, W. E., *et al.* (See Longtine, Robert V., assignor.)
Wildman, William W., and J. Christy, Akron, Ohio. Desulfurizing and devulcanizing rubber stock. No. 993,485; May 30; Sp. p. 5697; Gaz. vol. 166; p. 1043.
Wildrick, Warren H., Phillipsburg, N. J. Carousel. No. 988,419; Apr. 4; Sp. p. 277; Gaz. vol. 165; p. 45.
Wildridge, Gilbert J. (See Kelly, William, assignor.)
Wildt, Herman H., Leicester, England. Knitting-machine. No. 1,003,562; Sept. 19; Sp. p. 3011; Gaz. vol. 170; p. 544.
Wileman, Arthur F., Hampstead, London, England. Hook and eye. No. 998,438; July 18; Sp. p. 4003; Gaz. vol. 168; p. 710.
Wiles, Russell, Chicago, Ill. Electric cooker and toaster. No. 990,617; Apr. 25; Sp. p. 5049; Gaz. vol. 165; p. 879.
Wiles, Russell, Chicago, assignor to T. H. Montague, Blue Island, Ill. Orthodontia apparatus. No. 982,406; Jan. 24; Sp. p. 4925; Gaz. vol. 162; p. 853.
Wiley, Alvin H., D. W. and M. W. Lathem, Linden, Tex. Churn-operating mechanism. No. 984,056; Feb. 14; Sp. p. 1758; Gaz. vol. 163; p. 302.
Wiley, Clarence H., Hartford, Conn. Binder. No. 990,323; Apr. 25; Sp. p. 4384; Gaz. vol. 165; p. 776.
Wiley, Edgar C., assignor of one-half to Lynchburg Foundry Company, Lynchburg, Va. Blacking-box for jarring-machines. No. 989,464; Apr. 11; Sp. p. 2475; Gaz. vol. 165; p. 419.
Wiley, Fred T., Boston, Mass. Starting device for internal-combustion motors. No. 1,002,949; Sept. 12; Sp. p. 1724; Gaz. vol. 170; p. 299.
Wiley, James T., West Hamlin, W. Va. Mail-carrier. No. 991,582; May 9; Sp. p. 1626; Gaz. vol. 166; p. 300.

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Wilfong, Charles G. (See Heisley, Henry E., assignor.)
Wilfong, Millard F., Philadelphia, Pa. Container for metallurgical purposes. No. 984,986; Feb. 21; Sp. p. 3704; Gaz. vol. 163; p. 654.
Wilford, Albert, Baltimore, Md. Grain separator and cleaner. No. 998,439; July 18; Sp. p. 4004; Gaz. vol. 168; p. 710.
Wilford, Edward B. (See Schramm and Wilford.)
Wilhelm, Henry, New York, N. Y. Screwless spring contact. No. 996,303; June 27; Sp. p. 4861; Gaz. vol. 167; p. 857.
Wilhelm, John O., Portland, Oreg. Pavement. No. 1,003,840; Sept. 19; Sp. p. 3586; Gaz. vol. 170; p. 638.
Wilhelm, Ralph L., Redfield, S. D. Speed-gearing. No. 988,235; Mar. 28; Sp. p. 5259; Gaz. vol. 164; p. 932.
Wilhelm, Theodore, Philadelphia, Pa. Wheel. No. 993,486; May 30; Sp. p. 5699; Gaz. vol. 166; p. 1043.
Wilhite, Bertnie M., and F. I. Letson, Gordon, Nebr. Hose-drier. No. 984,725; Feb. 21; Sp. p. 3210; Gaz. vol. 163; p. 568.
Wilhite, John W., Utica, Ky. Plow-sharpening device. No. 1,006,613; Oct. 24; Sp. p. 4549; Gaz. vol. 171; p. 811.
Wilhite, Roy A., Indianapolis, Ind. Electric signaling apparatus. No. 980,380; Jan. 3; Sp. p. 411; Gaz. vol. 162; p. 71.
Wilke, August F. (See Helmer and Wilke.)
Wilke, Hermann, Cassel, Germany. Providing bread and other baked articles with a protective covering. No. 1,010,103; Nov. 28; Sp. p. 5419; Gaz. vol. 172; p. 971.
Wilke, Hermann W., Stirling, N. J. Loom-gage. No. 1,003,841; Sept. 19; Sp. p. 3587; Gaz. vol. 170; p. 638.
Wilkening, Walter H., Evanston, Ohio. Safety-catch. No. 1,009,815; Nov. 28; Sp. p. 4835; Gaz. vol. 172; p. 874.
Wilkening, Walter H., Cincinnati, Ohio, assignor of one-half to C. J. Heileman, Covington, Ky. Lapel-button. No. 1,008,508; Nov. 14; Sp. p. 1996; Gaz. vol. 172; p. 341.
Wilkerson, Berra M., assignor to L. B. Tannehill and W. C. Reid, Roswell, N. Mex. Caster. No. 984,457; Feb. 14; Sp. p. 2589; Gaz. vol. 163; p. 438.
Wilkes, Paul, assignor, by mesne assignments, to H. R. Brady, Cleveland, Ohio. Adjustable clamp employed in structural-concrete construction. No. 985,086; Feb. 21; Sp. p. 3900; Gaz. vol. 163; p. 689.
Wilkes, Walter C., Heavener, Okla. Automatic retainer. No. 1,001,490; Aug. 22; Sp. p. 4891; Gaz. vol. 169; p. 883.
Wilkie, James, assignor to Parke, Davis & Company, Detroit, Mich. Inhaler. No. 987,204; Mar. 21; Sp. p. 3058; Gaz. vol. 164; p. 554.
Wilkie, John F., Hibbing, Minn. Speedometer. No. 989,742; Apr. 18; Sp. p. 3111; Gaz. vol. 165; p. 547.
Wilkin, Theodore S., deceased; J. B. Carpenter, administrator, Oshkosh, Wis. Gang-saw base. No. 996,183; June 27; Sp. p. 4588; Gaz. vol. 167; p. 818.
Wilkin, Theodore S., deceased; J. B. Carpenter, administrator, Oshkosh, Wis. Gang-saw-operating mechanism. No. 996,184; June 27; Sp. p. 4589; Gaz. vol. 167; p. 819.
Wilkin, Theodore S., deceased; J. B. Carpenter, administrator, Oshkosh, Wis. Oscillating means for gang-saws. No. 996,185; June 27; Sp. p. 4591; Gaz. vol. 167; p. 819.
Wilkin, Theodore S., deceased; J. B. Carpenter, special administrator, Oshkosh, Wis. Gang-saw frame. No. 1,001,491; Aug. 22; Sp. p. 4893; Gaz. vol. 169; p. 883.
Wilkin, William R., assignor to The Stearns Company, Erie, Pa. Resawing-machine. No. 999,475; Aug. 1; Sp. p. 549; Gaz. vol. 169; p. 97.
Wilkins, Edgar M., Mexico, Mexico. Process and apparatus for testing electric meters. No. 1,005,758; Oct. 10; Sp. p. 2597; Gaz. vol. 171; p. 447.
Wilkins, George B. (See Kouwenhoven and Wilkins.)
Wilkins, George H., Greenfield, Mass. Glass-tube cutter No. 996,385; June 27; Sp. p. 5040; Gaz. vol. 167; p. 887.
Wilkins, Henry M. (See Reeves, Fountain O., assignor.)
Wilkins, Minge, Selma, Ala. Treating peanuts. No. 984,334; Feb. 14; Sp. p. 2348; Gaz. vol. 163; p. 397.
Wilkins, Roy A., Portland, Oreg. Stringed musical instrument. No. 995,310; June 13; Sp. p. 2601; Gaz. vol. 167; p. 450.
Wilkins, William J., Fulton, Ill. Pump. No. 1,002,794; Sept. 5; Sp. p. 1355; Gaz. vol. 170; p. 205.
Wilkinson, George, Philadelphia, Pa. Valve. No. 982,108; Jan. 17; Sp. p. 4312; Gaz. vol. 162; p. 719.
Wilkinson, J. W., *et al.* (See Sale, John H., assignor.)
Wilkinson, James, Providence, R. I., assignor, by mesne assignments, to General Electric Company. Manufacturing turbine bucket-wheels. No. 1,005,736; Oct. 10; Sp. p. 2554; Gaz. vol. 171; p. 439.
Wilkinson, John A., Atchison, Kans., assignor of three-fourths to J. C. Pennie and one fourth to A. Wanner, Jr., and E. P. Wanner, New York, N. Y. Opera and like chair. No. 1,010,557; Dec. 5; Sp. p. 342; Gaz. vol. 173; p. 55.
Wilkinson, John F., Gloucester, Mass. Motor-starter. No. 1,002,616; Sept. 5; Sp. p. 976; Gaz. vol. 170; p. 145.
Wilkinson, Joseph A., Eureka, Kans. Automobile attachment. No. 998,314; July 18; Sp. p. 3757; Gaz. vol. 168; p. 668.
Wilkinson Manufacturing Company. (See Coleman, William H., assignor.)
Wilkinson, Samuel, Springvale, assignor to Goodall Worsted Company, Sanford, Me. Picker-check for looms. No. 987,844; Mar. 28; Sp. p. 4402; Gaz. vol. 164; p. 801.
Wilkinson, Walter S., Wytheville, Va., assignor to G. B. Upham, Boston, Mass. Manufacture of compressed asphalt paving-blocks. No. 1,007,833; Nov. 7; Sp. p. 429; Gaz. vol. 172; p. 65.
Wilkinson, William E. (See Wissinger and Wilkinson.)
Will & Baumer Company, The. (See Solomonoff, Andrew, assignor.)
Will, Carl A., assignor of two-thirds to O. Will, Seattle, Wash. Grinding and polishing machine. No. 1,006,419; Oct. 17; Sp. p. 4077; Gaz. vol. 171; p. 711.
Will, Daniel R., Ava, Ill. Rail-fastener and combined metal and cement tie. No. 1,005,390; Oct. 10; Sp. p. 1783; Gaz. vol. 171; p. 318.
Will, Otto. (See Will, Carl A., assignor.)
Willard, George B., Waltham, Mass. Clothes-drier. No. 985,485; Feb. 28; Sp. p. 4855; Gaz. vol. 163; p. 862.
Willard, John D., Waurika, Okla. Grocer's measure. No. 988,420; Apr. 4; Sp. p. 281; Gaz. vol. 165; p. 45.
Willat, Arnold F., New York, N. Y. Mandolin-pick. No. 998,440; July 18; Sp. p. 4006; Gaz. vol. 168; p. 711.
Willcox, James E., assignor of one-half to C. Wear, Malden, Mass. Fluid-tight joint for rotary valve-stems. No. 1,008,398; Nov. 14; Sp. p. 1728; Gaz. vol. 172; p. 303.
Willet, Edgar M. (See Flournoy and Willet.)
Willett, Charles W., Tacoma, Wash. Sawmill set-works. No. 982,915; Jan. 31; Sp. p. 6017; Gaz. vol. 162; p. 1054.
Willett, Samuel, Tottenham, London, England. Razor-stropping machine. No. 1,003,021; Sept. 12; Sp. p. 1856; Gaz. vol. 170; p. 321.
Willetts, William R., assignor to American Pin Company, Waterbury, Conn. Trap for waste-water pipes. No. 991,123; May 2; Sp. p. 628; Gaz. vol. 166; p. 107.
Willetts, William R., assignor to American Pin Company, Waterbury, Conn. Flush-valve. No. 996,186; June 27; Sp. p. 4592; Gaz. vol. 167; p. 819.
Willey, Charles E., assignor to Jas. Clark Jr. Electric Company, Louisville, Ky. Construction of electric motors and dynamos. No. 999,935; Aug. 8; Sp. p. 1484; Gaz. vol. 169; p. 281.
Willey, Frederick D., assignor to Chicago Varnish Company, Chicago, Ill. Kiln. No. 996,442; June 27; Sp. p. 5177; Gaz. vol. 167; p. 907.
Willey, Frederick D., assignor to Chicago Varnish Company, Chicago, Ill. Composition of matter to be used for surface coating of wood, metal, or other material. No. 1,004,125; Sept. 26; Sp. p. 4304; Gaz. vol. 170; p. 766.
Willfong, Lemuel L. (See Sutter and Willfong.)
Willi, Otto B., Youngstown, Ohio. Music-leaf turner. No. 997,107; July 4; Sp. p. 1079; Gaz. vol. 168; p. 175.
William A. Zeidler Company. (See Zeidler, William A., assignor.)
William B. Hough Company. (See Taxis, Frederick C., assignor.)
William B. Pollock Company, The. (See McKelvey, William W., assignor.)
William B. Pollock Company, The. (See Sherman, Erwin C., assignor.)
William Galloway Company *et al.* (See Salisbury, Charles K., assignor.)
William H. Rich & Son. (See Atmore, Robert R., assignor.)
William Schollhorn Company, The. (See Bernard, William A., assignor.)
William Sellers & Company. (See Benzon, George H., Jr., assignor.)
William Sellers & Company. (See Haynes, William L., assignor.)
William Sellers & Company. (See Vold, Lars H., assignor.)
William Shakespeare, Jr., Company. (See Shakespeare, William, Jr., assignor.)
Williams, Ada M. (See Huth, William A., assignor.)
Williams, Adam C., Ravenna, Ohio. Sad-iron handle. No. 998,315; July 18; Sp. p. 3759; Gaz. vol. 168; p. 668.
Williams, Albert, St. Louis, Mo. Vehicle-wheel. No. 1,000,472; Aug. 15; Sp. p. 2688; Gaz. vol. 169; p. 499.
Williams, Alonzo S., Taft, Okla. Headlight-adjuster. No. 1,012,954; Dec. 26; Sp. p. 5713; Gaz. vol. 173; p. 1002.
Williams, Ambrose, Elizabeth, Pa. Metallic tie and rail-fastener. No. 994,549; June 6; Sp. p. 931; Gaz. vol. 167; p. 154.
Williams, Appleton P., trustee. (See Winder, Samuel E., assignor.)
Williams, Arthur J., Washington, D. C. Mixture for coating electrotype-mold forms. No. 997,589; July 11; Sp. p. 2055; Gaz. vol. 168; p. 367.
Williams, Arthur L., Brockton, Mass. Detachable handle. No. 998,729; July 25; Sp. p. 4660; Gaz. vol. 168; p. 844.
Williams, Benjamin R., English, Ark. Electric-light-bulb shade. No. 994,228; June 6; Sp. p. 261; Gaz. vol. 167; p. 45.
Williams, Bennett. (See Hughes, Robert O., assignor.)

Alphabetical list of patentees—Continued.

Williams, Brown and Earle. (See Metzger, Ferdinand F., assignor.)
Williams, Charles, Brooklyn, N. Y. Pump. No. 987,934; Mar. 28; Sp. p. 4644; Gaz. vol. 164; p. 832.
Williams, Charles C. (See Buckley, Duer H., assignor.)
Williams, Charles C. (See Schrier, Adolph B., assignor.)
Williams, Charles D., Salida, Colo. Calendar date-indicator. No. 1,007,760; Nov. 7; Sp. p. 240; Gaz. vol. 172; p. 39.
Williams, Charles E. (See Bedford and Williams.)
Williams, Charles E., Greenville, R. I. Self-balanced thread-board. No. 998,441; July 18; Sp. p. 4007; Gaz. vol. 168; p. 711.
Williams, Charles F., Atlanta, Ga., assignor of sixty-two one-hundredths to J. T. Andrew, Montgomery, Ala. Armored pneumatic tire. No. 1,001,492; Aug. 22; Sp. p. 4894; Gaz. vol. 169; p. 884.
Williams, Charles F., Erie, Pa., and W. Dicks, Dumbarton, Scotland. Apparatus for the manufacture or production of weldless or seamless metal tubes. No. 1,005,091; Oct. 3; Sp. p. 1107; Gaz. vol. 171; p. 187.
Williams, Charles G., assignor of one-fourth to R. L. Ward, Sumner, Miss. Cotton chopper and scraper. No. 1,004,948; Oct. 3; Sp. p. 862; Gaz. vol. 171; p. 140.
Williams, Charles H., Springfield, Mo. Safety device. No. 980,721; Jan. 3; Sp. p. 1174; Gaz. vol. 162; p. 187.
Williams, Charles H., Browndell, Tex. Lumber conveyer and separator. No. 996,386; June 27; Sp. p. 5042; Gaz. vol. 167; p. 888.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-hanger mounting. No. 989,887; Apr. 18; Sp. p. 3411; Gaz. vol. 165; p. 595.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam. No. 990,938; May 2; Sp. p. 233; Gaz. vol. 166; p. 41.
Williams, Charles H., Jr., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third suspension for brake-beams. No. 997,888; July 11; Sp. p. 2757; Gaz. vol. 168; p. 472.
Williams, Charles L., Parkersburg, W. Va. Bell desk instrument. No. 991,583; May 9; Sp. p. 1628; Gaz. vol. 166; p. 300.
Williams, Charles M. (See Cartwright, Lester O., assignor.)
Williams, Christian, Wittenberg, Wis. Lubricator. No. 992,091; May 9; Sp. p. 2645; Gaz. vol. 166; p. 471.
Williams, Christopher S., Denver, Colo. Skirt marker and trimmer. No. 980,381; Jan. 3; Sp. p. 413; Gaz. vol. 162; p. 72.
Williams, Claude, St. Louis county, Mo. Fishing-float. No. 987,522; Mar. 21; Sp. p. 3704; Gaz. vol. 164; p. 661.
Williams, Clem, Bluffton, Ind. Pump-barrel. No. 997,351; July 11; Sp. p. 1593; Gaz. vol. 168; p. 288.
Williams & Co., Melvin. (See Morton, Josephine, assignor.)
Williams, Daniel, Boston, Mass. Light attachment for music-stands. No. 1,010,335; Nov. 28; Sp. p. 5888; Gaz. vol. 172; p. 1048.
Williams, David A., assignor of one-half to D. R. James, Scranton, Pa. Lamp. No. 1,002,890; Sept. 12; Sp. p. 1599; Gaz. vol. 170; p. 277.
Williams, David C., Arlington, Mass., assignor to S. N. Berlin and B. Trosky, New York, N. Y. Safety-razor sharpener. No. 998,442; July 18; Sp. p. 4009; Gaz. vol. 168; p. 711.
Williams, David T., Paterson, N. J., assignor to Vacuum Engineering Company. Dust-collector for pneumatic cleaning systems. No. 993,133; May 23; Sp. p. 4946; Gaz. vol. 166; p. 895.
Williams, Dennis F., and W. O. Herndon, Fruitvale, Tenn. Collapsible poultry-coop. No. 1,008,095; Nov. 7; Sp. p. 962; Gaz. vol. 172; p. 155.
Williams, Dick B., New Orleans, La., assignor of one-sixth to W. F. Wall, New York, N. Y., and one-sixth to C. P. Landreth, Philadelphia, Pa. Tying device for bundling purposes. No. 1,004,514; Sept. 26; Sp. p. 5097; Gaz. vol. 170; p. 897.
Williams, Dorman R., Whittemore, Mich. Saw-tool. No. 1,004,326; Sept. 26; Sp. p. 4711; Gaz. vol. 170; p. 833.
Williams, Edgar V., Laurelsprings, assignor to Williams Mill Manufacturing Company, Ronda, N. C. Mill. No. 1,008,231; Nov. 7; Sp. p. 1261; Gaz. vol. 172; p. 206.
Williams, Edward D., Carnegie, Okla. Quilting-frame. No. 999,535; Aug. 1; Sp. p. 677; Gaz. vol. 169; p. 116.
Williams, Edward L., Igerna, Cal. Reinforced-concrete pole. No. 993,427; May 30; Sp. p. 5572; Gaz. vol. 166; p. 1023.
Williams, Edward R. (See Williams, Joseph, W. H., and E. R.) (Reissue.)
Williams, Edward R., and G. F. D. Rollings, Washington, D. C.; said Rollings assignor to said Williams. Burnishing-machine. No. 995,749; June 20; Sp. p. 3609; Gaz. vol. 167; p. 634.
Williams, Emery, *et al.* (See Turner, Charles F., assignor.)
Williams, Ernest F. (See Tate, Thomas A., assignor.)
Williams, Eugene C. (See Beede and Williams.)
Williams, Everett A., Leonard, assignor of one-fourth to A. H. Ward, Noel, Colo. Endless-chain propeller for boats. No. 1,010,996; Dec. 5; Sp. p. 1312; Gaz. vol. 173; p. 208.
Williams, Fitzallan B., Chicago, Ill. Box-fastener. No. 987,783; Mar. 28; Sp. p. 4274; Gaz. vol. 164; p. 779.
Williams, Frank B., assignor of one-half to C. J. Ouellet, Cambridge, Mass. Machine for making concrete blocks. No. 1,004,327; Sept. 26; Sp. p. 4713; Gaz. vol. 170; p. 833.
Williams, Frank C., Philadelphia, Pa., assignor to The Safety Block Signal Company. Stopping mechanism for railway-cars. No. 993,428; May 30; Sp. p. 5574; Gaz. vol. 166; p. 1023.
Williams, Frank M., *et al.* (See Crawford, Abner W., assignor.)
Williams, Frederick M., Saginaw, Mich. Double piano-hammer. No. 1,008,626; Nov. 14; Sp. p. 2260; Gaz. vol. 172; p. 384.
Williams, George, Wilkinsburg, Pa. Wheel-spindle-oiling device. No. 995,208; June 13; Sp. p. 2400; Gaz. vol. 167; p. 416.
Williams, George H., *et al.* (See Foust, Henry, assignor.)
Williams, George H., Chicago, Ill. Ore-jig. No. 992,092; May 9; Sp. p. 2646; Gaz. vol. 166; p. 471.
Williams, George H. C., Metuchen, assignor to Otis Elevator Company, Jersey City, N. J. Double-weight counterbalance for gravity-conveyer doors. No. 986,336; Mar. 7; Sp. p. 1207; Gaz. vol. 164; p. 195.
Williams, George H. C., Metuchen, assignor to Otis Elevator Company, Jersey City, N. J. Three-track spiral gravity-conveyer. No. 1,005,391; Oct. 10; Sp. p. 1784; Gaz. vol. 171; p. 318.
Williams, George N., Jr., and J. Tinlin, New York, N. Y., assignors, by mesne assignments, to said James Tinlin. Circular saw-blade. (Reissue.) No. 13,300; Oct. 24; Sp. p. 5467; Gaz. vol. 171; p. 958.
Williams, Guy R., Omaha, Nebr. Wall-paper exhibitor. No. 991,922; May 9; Sp. p. 2334; Gaz. vol. 166; p. 415.
Williams, Guy V. (See Farkas, Karl, assignor.)
Williams, Henry F., San Francisco, Cal. Treating bituminous sand-rock. No. 983,851; Feb. 7; Sp. p. 1273; Gaz. vol. 163; p. 204.
Williams, Herndon J., *et al.* (See Hull, William J., assignor.)
Williams, Homer D., W. Ahlen, and V. Ross, Duquesne, Pa. Charging blast-furnaces. No. 994,550; June 6; Sp. p. 933; Gaz. vol. 167; p. 154.
Williams, Irvin, deceased, Marshall, Mo.; D. D. Duggins, administrator. Permutation-padlock. No. 985,718; Feb. 28; Sp. p. 5368; Gaz. vol. 163; p. 940.
Williams, J. R., *et al.* (See Briggs, William C., assignor.)
Williams, J. R., *et al.* (See Briggs and Williams, assignors.)
Williams, James A., Montreal, Quebec, Canada. Electric-light attachment. No. 980,580; Jan. 3; Sp. p. 878; Gaz. vol. 162; p. 141.
Williams, James E., *et al.* (See Umbreit, Frederick W., assignor.)
Williams, James P., assignor to The De Long Hook and Eye Company, Philadelphia, Pa. Carpet and rug fastener. No. 995,644; June 20; Sp. p. 3390; Gaz. vol. 167; p. 597.
Williams, James R. (See Briggs and Williams.)
Williams, John A., Brooklyn, assignor to H. C. Miller, Waterford, N. Y. Sound-box. No. 987,205; Mar. 21; Sp. p. 3060; Gaz. vol. 164; p. 555.
Williams, John F., Sandusky, Ohio. Blowpipe. No. 981,342; Jan. 10; Sp. p. 2678; Gaz. vol. 162; p. 435.
Williams, John L., Los Angeles, Cal. Automatic flange-oiler. No. 995,645; June 20; Sp. p. 3392; Gaz. vol. 167; p. 598.
Williams, John L., and J. C. Sturgeon, Los Angeles, Cal. Flushing-valve. No. 992,315; May 16; Sp. p. 3196; Gaz. vol. 166; p. 580.
Williams, John R., H. W. and B. Bradley, Sheffield, England. Obtaining zinc and/or copper from complex ores or the like. No. 1,006,330; Oct. 17; Sp. p. 3889; Gaz. vol. 171; p. 680.
Williams, John W., San Jacinto, Cal. Belt-buckle. No. 1,004,223; Sept. 26; Sp. p. 4516; Gaz. vol. 170; p. 799.
Williams, Johnson M., Parker, Ariz. Clothes-pin. No. 1,003,842; Sept. 19; Sp. p. 3589; Gaz. vol. 170; p. 638.
Williams, Joseph, W. H., and E. R., Sharpsburg, Pa. Disinfector and deodorizer. (Reissue.) No. 13,314; Nov. 14; Sp. p. 3134; Gaz. vol. 172; p. 523.
Williams, Joseph L. (See Thornton, Charles W., assignor.) (Reissue.)
Williams, Laura B., Jacksonville, Fla. Wire rack. No. 1,004,949; Oct. 3; Sp. p. 864; Gaz. vol. 171; p. 141.
Williams, Louis N. D. (See Scott, Robert W., assignor.)
Williams, Lynn A., Evanston, Ill. Type-writer keyboard. No. 992,316; May 16; Sp. p. 3197; Gaz. vol. 166; p. 581.
Williams, Margaret E. B., Westernport, Md. Burner. No. 999,615; Aug. 1; Sp. p. 821; Gaz. vol. 169; p. 143.
Williams, Margaret E. B., Westernport, Md. Awning. No. 1,011,688; Dec. 12; Sp. p. 2914; Gaz. vol. 173; p. 487.
Williams, Martin L., South Bend, Ind. Wind-guard for vehicles. No. 1,000,137; Aug. 8; Sp. p. 1956; Gaz. vol. 169; p. 352.

Alphabetical list of patentees—Continued.

Williams, Martin L., South Bend, Ind. Wind-guard for vehicles. No. 1,011,892; Dec. 12; Sp. p. 3349; Gaz. vol. 173; p. 556.
Williams Mill Manufacturing Company. (See Williams, Edgar V., assignor.)
Williams, Milton F., and E. H. Frickey, assignors to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Guard-bar. No. 1,001,108; Aug. 22; Sp. p. 4139; Gaz. vol. 169; p. 758.
Williams, Milton F., and E. H. Frickey, assignors to Williams Patent Crusher & Pulverizer Company, St. Louis, Mo. Feeding mechanism for disintegrating-machines. No. 1,004,126; Sept. 26; Sp. p. 4306; Gaz. vol. 170; p. 766.
Williams, Myron A. (See Thayer, Lou V., assignor.)
Williams, Newton, assignor of one-half to D. R. Radovsky, Fall River, Mass. Machine for repairing picker-aprons. No. 995,418; June 13; Sp. p. 2875; Gaz. vol. 167; p. 488.
Williams, Orbert E., Scranton, Pa. Feed-water regulator. No. 993,628; May 30; Sp. p. 6009; Gaz. vol. 166; p. 1092.
Williams, Orlando S., Spring Valley, Wis. Sanitary milk-pail. No. 983,337; Feb. 7; Sp. p. 170; Gaz. vol. 163; p. 30.
Williams, P. B., *et al.* (See Little, James R., assignor.)
Williams Patent Crusher and Pulverizer Company. (See Williams and Frickey, assignors.)
Williams, Peter J., Jersey City, N. J. Gage-cock. No. 990,690; Apr. 25; Sp. p. 5234; Gaz. vol. 165; p. 903.
Williams, Philip K., assignor to J. B. Williams Company, Glastonbury, Conn. Combined shaving-stick holder and case. No. 1,006,420; Oct. 17; Sp. p. 4079; Gaz. vol. 171; p. 711.
Williams, Pink, Anniston, Ala. Car-truck. No. 1,007,906; Nov. 7; Sp. p. 590; Gaz. vol. 172; p. 91.
Williams, Ralph E., St. Louis, Mo. Gramophone-stop. No. 1,001,493; Aug. 22; Sp. p. 4896; Gaz. vol. 169; p. 884.
Williams, Reece, Albany, Western Australia, Australia. Rotary engine. No. 985,562; Feb. 28; Sp. p. 5014; Gaz. vol. 163; p. 888.
Williams, Richard H., New Richmond, Wis. Feed-regulator. No. 993,134; May 23; Sp. p. 4947; Gaz. vol. 166; p. 896.
Williams, Rinaldo, Birmingham, Ala. Making superphosphate. No. 1,003,681; Sept. 19; Sp. p. 3259; Gaz. vol. 170; p. 586.
Williams, Robert D. (See Webb, Jacob W., assignor.)
Williams, Robert L., McDade, Tex. Furnace-forming die. No. 981,731; Jan. 17; Sp. p. 3472; Gaz. vol. 162; p. 588.
Williams, Robert M., Junior, W. Va. Rail-chair. No. 994,290; June 6; Sp. p. 387; Gaz. vol. 167; p. 66.
Williams, Samuel, Atlantic, Mass. Binding for books. No. 999,285; Aug. 1; Sp. p. 175; Gaz. vol. 169; p. 33.
Williams, Seymour S., Kansas City, Mo. Resilient wheel. No. 991,923; May 9; Sp. p. 2336; Gaz. vol. 166; p. 415.
Williams, Stevenson A., *et al.* (See Beshore, Jacob B., assignor.)
Williams, Thomas B. (See Smith and Williams.)
Williams, Thomas J., Washington, D. C. Holding device. No. 1,000,868; Aug. 15; Sp. p. 3561; Gaz. vol. 169; p. 640.
Williams, Thomas W., Columbus, Ohio. Rail-joint. No. 990,691; Apr. 25; Sp. p. 5236; Gaz. vol. 165; p. 904.
Williams, Walter, assignor to P. J. Walsh, Detroit, Mich. Liquid-soap container. No. 984,630; Feb. 21; Sp. p. 3003; Gaz. vol. 163; p. 532.
Williams, Walter H., *et al.* (See Caldwell, John, assignor.)
Williams, Walter S., assignor of twenty-eight one-hundredths to C. W. Pifer, twenty-eight one-hundredths to C. R. Wescott, and fifteen one-hundredths to W. H. H. Hastings, Clinton, Ill. Car-door. No. 1,003,563; Sept. 19; Sp. p. 3016; Gaz. vol. 170; p. 544.
Williams, White and Company. (See Freeland, George W., assignor.)
Williams, William, Llanelly, England. Breaking-down appliance for minerals. No. 997,889; July 11; Sp. p. 2758; Gaz. vol. 168; p. 472.
Williams, William A., Newport, Ark. Water-heater. No. 1,010,005; Nov. 28; Sp. p. 5220; Gaz. vol. 172; p. 937.
Williams, William E. (See Corley and Williams.)
Williams, William E., Wilkes-Barre, Pa. Signal attachment for letter-boxes. No. 984,502; Feb. 14; Sp. p. 2691; Gaz. vol. 163; p. 452.
Williams, William E., Chicago, Ill. Machine and method for manufacturing shredded-wheat cup-biscuits. No. 991,584; May 9; Sp. p. 1629; Gaz. vol. 166; p. 301.
Williams, William E., Chicago, Ill. Automatic poster-display machine. No. 994,811; June 13; Sp. p. 1555; Gaz. vol. 167; p. 285.
Williams, William E., and K. Roth, Terre Haute, Ind. Comb-cover for corrugated roofs. No. 982,916; Jan. 31; Sp. p. 6022; Gaz. vol. 162; p. 1054.
Williams, William H. (See Williams, Joseph, W. H., and E. R.) (Reissue.)
Williams, William W., assignor to Star Novelty Company, Indianapolis, Ind. Spark-producer. No. 998,143; July 18; Sp. p. 3351; Gaz. vol. 168; p. 604.
Williams, Willie A. (See McGee and Williams.)

Williams, Winfield B., Waxahachie, Tex. Juice-extractor. No. 980,466; Jan. 3; Sp. p. 620; Gaz. vol. 162; p. 102.
Williams, Winfield B., Waxahachie, Tex. Receptacle-clamping device. No. 989,743; Apr. 18; Sp. p. 3112; Gaz. vol. 165; p. 547.
Williams, Winfield B., Waxahachie, Tex. Container-holder. No. 1,007,319; Oct. 31; Sp. p. 6096; Gaz. vol. 171; p. 1110.
Williamson, Alfred, Chapman, Ill. Tie for supporting track-rails. No. 986,111; Mar. 7; Sp. p. 751; Gaz. vol. 164; p. 121.
Williamson, Alfred D., assignor to Vickers Sons & Maxim, Limited, Sheffield, England. Rotating commutator. No. 1,003,843; Sept. 19; Sp. p. 3590; Gaz. vol. 170; p. 639.
Williamson Bros. Company. (See Williamson, John D., Jr., assignor.)
Williamson, Charles, Norfolk, Va. Apparatus for raising sunken vessels. No. 1,009,123; Nov. 21; Sp. p. 3326; Gaz. vol. 172; p. 588.
Williamson, Charles, Norfolk, Va. Flexible arm and mitten. No. 1,010,558; Dec. 5; Sp. p. 344; Gaz. vol. 173; p. 55.
Williamson, Charles, Norfolk, Va. Submarine operating apparatus. No. 1,010,559; Dec. 5; Sp. p. 348; Gaz. vol. 173; p. 55.
Williamson, Edward B., Stony Creek, Va. Hammock-bed. No. 1,006,331; Oct. 17; Sp. p. 3892; Gaz. vol. 171; p. 680.
Williamson, Frederick G., St. Louis, Mo., assignor to Westinghouse Automatic Air & Steam Coupler Company, East St. Louis, Ill. Automatic pipe-coupling. No. 1,005,092; Oct. 3; Sp. p. 1111; Gaz. vol. 171; p. 188.
Williamson, George, Matteawan, N. Y. Belt-shifter. No. 1,001,494; Aug. 22; Sp. p. 4898; Gaz. vol. 169; p. 885.
Williamson, Gus T., Lecta, Ky. Crupper. No. 1,003,564; Sept. 19; Sp. p. 3018; Gaz. vol. 170; p. 544.
Williamson-Haffner Engraving Co., The. (See Cavally, Frederick L., Jr., assignor.)
Williamson, Jacob, Ava, Ill. Road-scraper. No. 993,487; May 30; Sp. p. 5700; Gaz. vol. 166; p. 1043.
Williamson, James C., Dudley, Ga. Clutch for stump-pullers. No. 1,012,309; Dec. 19; Sp. p. 4294; Gaz. vol. 173; p. 737.
Williamson, James F. (See Ekelund, John A., assignor.)
Williamson, James F., *et al.* (See Pearson, John, assignor.)
Williamson, John. (See Levey, John, assignor.) (Reissue.)
Williamson, John C., San Francisco, assignor to H. Murdock, Alameda, Cal. Bed. No. 992,093; May 9; Sp. p. 2649; Gaz. vol. 166; p. 472.
Williamson, John D., Jr., assignor to Williamson Bros. Company, Philadelphia, Pa. Hoisting apparatus. No. 988,843; Apr. 4; Sp. p. 1170; Gaz. vol. 165; p. 187.
Williamson, John S., New York, N. Y. Can-opener. No. 1,010,997; Dec. 5; Sp. p. 1314; Gaz. vol. 173; p. 208.
Williamson, Leroy A., Boston, Mass., assignor to L. A. Williamson Company, New York, N. Y. Portable electric-light fixture. No. 994,291; June 6; Sp. p. 388; Gaz. vol. 167; p. 66.
Williamson, Leroy A., Boston, Mass., assignor to L. A. Williamson Company, New York, N. Y. Portable electric-light fixture. No. 994,292; June 6; Sp. p. 389; Gaz. vol. 167; p. 66.
Williamson, Leroy A., Boston, Mass., assignor to L. A. Williamson Company, New York, N. Y. Portable electric-light fixture. No. 994,293; June 6; Sp. p. 390; Gaz. vol. 167; p. 67.
Williamson, Robert B. (See Brown and Williamson.)
Williamson, Robert B., Milwaukee, Wis., assignor to Allis-Chalmers Company. Dynamo-electric machine. No. 1,010,998; Dec. 5; Sp. p. 1315; Gaz. vol. 173; p. 209.
Williamson, Robert B., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Dynamo-electric machine. No. 1,000,061; Aug. 8; Sp. p. 1757; Gaz. vol. 169; p. 325.
Williamsport Staple Company. (See Krouse, Charles C., assignor.)
Williard, Newton, Trenton, N. J. Car-fender. No. 1,001,792; Aug. 29; Sp. p. 5537; Gaz. vol. 169; p. 1016.
Willingham, Mart, *et al.* (See Crocker, James, assignor.)
Willis, Archie R., and C. D. Mahoney, Elkhart, Ind. Beater-roll for paper-mills. No. 1,001,599; Aug. 22; Sp. p. 5117; Gaz. vol. 169; p. 920.
Willis, Charles C., assignor to Dennison Manufacturing Company, South Framingham, Mass. Paper-towel holder. No. 998,561; July 18; Sp. p. 4239; Gaz. vol. 168; p. 751.
Willis, Frank E., *et al.* (See Beebe, Frank, assignor.)
Willis, Frederick M., New York, N. Y. Shoe-lace retainer. No. 982,332; Jan. 24; Sp. p. 4774; Gaz. vol. 162; p. 826.
Willis, George M. (See MacLagan, Hector P., assignor.)
Willis, George M., assignor of one-half to A. Stromberg, Chicago, Ill. Means for operating electromagnets from alternating-current sources. No. 995,646; June 20; Sp. p. 3394; Gaz. vol. 167; p. 598.
Willis, Guy L., Thermopolis, Wyo. Animal-trap. No. 986,256; Mar. 7; Sp. p. 1045; Gaz. vol. 164; p. 168.

Willis, Horatio C., Whitewright, Tex. Tire-armor. No. 982,453; Jan. 24; Sp. p. 5050; Gaz. vol. 162; p. 871.
Willis, Leland, assignor to Bateman Manufacturing Company, Grenloch, N. J. Clutch mechanism for agricultural implements. No. 981,343; Jan. 10; Sp. p. 2684; Gaz. vol. 162; p. 435.
Willis, Leland, assignor to Bateman Manufacturing Company, Grenloch, N. J. Plant-spraying machine. No. 999,076; July 25; Sp. p. 5436; Gaz. vol. 168; p. 967.
Willis, Leland, and O. F. Woodworth, assignors to Bateman Manufacturing Company, Grenloch, N. J. Spring attachment for teeth of agricultural implements. No. 1,004,224; Sept. 26; Sp. p. 4517; Gaz. vol. 170; p. 799.
Willis, Robert L., *et al.* (See Nichols, Jack L., assignor.)
Willis, Samuel T., Worcester, Mass. Mechanism for utilizing the exhaust-gases of internal-combustion engines. No. 980,382; Jan. 3; Sp. p. 415; Gaz. vol. 162; p. 72.
Willis, Thomas E., and J. W. Rodgers, Hennessey, Okla. Cotton-harvester. No. 1,006,614; Oct. 24; Sp. p. 4550; Gaz. vol. 171; p. 811.
Willis, William A., and J. H. Beland, Fort Worth, Tex. Preparing stock food and oil from cotton-seed. No. 994,088; May 30; Sp. p. 6964; Gaz. vol. 166; p. 1249.
Willison, John, Derby, England, assignor to The National Malleable Castings Company, Cleveland, Ohio. Draft-rigging. No. 1,000,312; Aug. 8; Sp. p. 2313; Gaz. vol. 169; p. 410.
Williston, Belvin T., Somerville, Mass., assignor to The United Injector Company, New York, N. Y. Valve. No. 1,012,492; Dec. 19; Sp. p. 4645; Gaz. vol. 173; p. 797.
Willma, Theodor, assignor of one-fourth to C. Runge, one-eighth to M. Wolski, and one-eighth to S. Kielar, Milwaukee, Wis. Crusher. No. 1,009,004; Nov. 14; Sp. p. 3073; Gaz. vol. 172; p. 510.
Willmann, Joseph, Shelton, Conn. Apparatus for killing bacteria in liquids. (Reissue.) No. 13,199; Feb. 7; Sp. p. 1318; Gaz. vol. 163; p. 209.
Willmann, Joseph, Shelton, Conn. Pasteurizing apparatus for milk. No. 990,088; Apr. 18; Sp. p. 3832; Gaz. vol. 165; p. 664.
Willmann, Joseph, Derby, Conn. Regenerative pasteurizer. No. 986,257; Mar. 7; Sp. p. 1047; Gaz. vol. 164; p. 168.
Willmann, Joseph, Derby, Conn. Homogenizing cream. No. 1,004,515; Sept. 26; Sp. p. 5099; Gaz. vol. 170; p. 898.
Willmarth, Charles A., Detroit, Mich. Stay-wire crimping and cutting machine. No. 999,476; Aug. 1; Sp. p. 550; Gaz. vol. 169; p. 97.
Willmarth, Charles A., assignor to Eureka Fence Machine Company, Detroit, Mich. Fence-machine. No. 993,488; May 30; Sp. p. 5702; Gaz. vol. 166; p. 1043.
Willmore, William M., Vincennes, Ind. Adjustable cultivator-frame. No. 993,489; May 30; Sp. p. 5706; Gaz. vol. 166; p. 1044.
Willoughby, Hugh L., Newport, R. I. Airship. No. 1,008,096; Nov. 7; Sp. p. 964; Gaz. vol. 172; p. 155.
Willoughby, Lively B., Bowling Green, Ky. Milling apparatus. No. 982,454; Jan. 24; Sp. p. 5051; Gaz. vol. 162; p. 871.
Willour, Le Roy, assignor to The Ashland Manufacturing Company, Ashland, Ohio. Tire-saver. No. 987,523; Mar. 21; Sp. p. 3705; Gaz. vol. 164; p. 662.
Willour, Le Roy, assignor to Ashland Manufacturing Company, Ashland, Ohio. Storage-stand. No. 990,025; Apr. 18; Sp. p. 3710; Gaz. vol. 165; p. 643.
Willour, Le Roy, assignor to The Ashland Manufacturing Company, Ashland, Ohio. Jack. No. 990,089; Apr. 18; Sp. p. 3836; Gaz. vol. 165; p. 664.
Willour, Le Roy, assignor to The Ashland Manufacturing Company, Ashland, Ohio. Tire-saver. No. 995,583; June 20; Sp. p. 3253; Gaz. vol. 167; p. 575.
Willour, Le Roy, assignor to The Ashland Manufacturing Company, Ashland, Ohio. Jack. No. 1,005,912; Oct. 17; Sp. p. 2939; Gaz. vol. 171; p. 533.
Wills, Cass E., Ashland, Nebr. Husking device. No. 980,581; Jan. 3; Sp. p. 879; Gaz. vol. 162; p. 141.
Wills, David, Auburn, N. Y. Ink-well filler. No. 980,722; Jan. 3; Sp. p. 1176; Gaz. vol. 162; p. 187.
Wills, Emma E., Chetopa, Kans. Egg-tester. No. 1,010,336; Nov. 28; Sp. p. 5889; Gaz. vol. 172; p. 1048.
Wills, Emmett S., *et al.* (See Francis, Horace G., assignor.)
Willson, John W., Norris, Ill. Motor. No. 982,917; Jan. 31; Sp. p. 6024; Gaz. vol. 162; p. 1055.
Willson, Russell A., and A. L. Wright, Spokane, Wash. Automatic railway-train arrester. No. 1,012,493; Dec 19; Sp. p. 4647; Gaz. vol. 173; p. 798.
Willson, William W., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Sprocket-wheel. No. 994,896; June 13; Sp. p. 1779; Gaz. vol. 167; p. 313.
Willyerd, John B., St. Louis, Mo. Portable dark room and camera. No. 988,421; Apr. 4; Sp. p. 282; Gaz. vol. 165; p. 46.
Willys-Overland Automobile Company, The. (See Cameron, William H., assignor.)
Wilmot, Arthur B., East Claridon, Ohio. Valve for two-cylinder engines. No. 998,064; July 18; Sp. p. 3175; Gaz. vol. 168; p. 576.
Wilmot, Frank A. (See Palmer, William R., assignor.) (Reissue.)
Wilmot, Frank A., Bridgeport, Conn. Manufacture of iron and steel. No. 1,012,310; Dec. 19; Sp. p. 4295; Gaz. vol. 173; p. 737.
Wilmot, George W., assignor of one-third to F. H. Blatch, Hazleton, Pa. Jack. No. 989,744; Apr. 18; Sp. p. 3114; Gaz. vol. 165; p. 547.
Wilms, Hermann, East Pittsburg, Pa. Drafting instrument. No. 1,000,221; Aug. 8; Sp. p. 2137; Gaz. vol. 169; p. 380.
Wilms, William G., Highland, Cal. Saw-tooth shaper. No. 987,935; Mar. 28; Sp. p. 4646; Gaz. vol. 164; p. 833.
Wilmshöfer, Joseph, Dusseldorf, Germany. Detachable heel. No. 989,679; Apr. 18; Sp. p. 2979; Gaz. vol. 165; p. 525.
Wilputte, Louis, Joliet, Ill. Leveling-ram for coke-ovens. No. 981,732; Jan. 17; Sp. p. 3473; Gaz. vol. 162; p. 588.
Wilputte, Louis, Joliet, Ill. Coke-oven door. No. 1,006,036; Oct. 17; Sp. p. 3209; Gaz. vol. 171; p. 576.
Wilputte, Louis, Joliet, Ill., assignor to H. Koppers, Essen-on-the-Ruhr, Germany. Coke and gas oven. No. 981,344; Jan. 10; Sp. p. 2686; Gaz. vol. 162; p. 435.
Wilshusen, August E., Stafford, Kans., assignor to H. D. Prose and W. W. Jennings. Burner for welding-machines. No. 1,006,890; Oct. 24; Sp. p. 5163; Gaz. vol. 171; p. 907.
Wilson, A. I. V., *et al.* (See Smith, Henry A., assignor.)
Wilson, Albert F., Montgomery, Ala. Concrete railway cross-tie. No. 1,002,617; Sept. 5; Sp. p. 984; Gaz. vol. 170; p. 146.
Wilson, Alden Z., Des Moines, Iowa. Elevator safety-floor. No. 982,333; Jan. 24; Sp. p. 4775; Gaz. vol. 162; p. 827.
Wilson, Alexander G., Chicago, Ill. Ventilator. No. 1,002,549; Sept. 5; Sp. p. 820; Gaz. vol. 170; p. 120.
Wilson, Arthur J., New York, and A. Larson, Port Richmond, N. Y. Quickly-adjustable bolt. No. 1,005,492; Oct. 10; Sp. p. 2005; Gaz. vol. 171; p. 353.
Wilson, Bert, Warm Springs, Mont. Currycomb. No. 1,011,689; Dec. 12; Sp. p. 2918; Gaz. vol. 173; p. 487.
Wilson, Charles A., Neodesha, Kans. Stalk-cutter. No. 988,844; Apr. 4; Sp. p. 1175; Gaz. vol. 165; p. 187.
Wilson, Charles H., Red Oak, Iowa. Coupling for reinforced concrete pipes. No. 1,003,309; Sept. 12; Sp. p. 2466; Gaz. vol. 170; p. 425.
Wilson, Charles H., New York, and J. Bengough, assignors to The Carter-Crume Company, Limited, Niagara Falls, N. Y. Autographic register. No. 992,317; May 16; Sp. p. 3199; Gaz. vol. 166; p. 581.
Wilson, Charles J. (See Lisberger and Wilson.)
Wilson, Charles M., Philadelphia, Pa., assignor of one-half to J. L. Wilson, Pittman, N. J. Spiral eye-screw driver. No. 985,087; Feb. 21; Sp. p. 3901; Gaz. vol. 163; p. 689.
Wilson, Charlie B., Bartow, Fla. Plow-beam. No. 1,011,690; Dec. 12; Sp. p. 2919; Gaz. vol. 173; p. 487.
Wilson, Clarence A., Passaic, N. J. Grease-gun. No. 988,422; Apr. 4; Sp. p. 285; Gaz. vol. 165; p. 46.
Wilson, Cowan D., assignor of one-half to W. S. Matthews, Big Stone Gap, Va. Toy flying-machine. No. 982,653; Jan. 24; Sp. p. 5428; Gaz. vol. 162; p. 937.
Wilson, David, Seacombe, England. Gearing for winches. No. 1,007,761; Nov. 7; Sp. p. 241; Gaz. vol. 172; p. 39.
Wilson, Edward D., Strong, Kans. Combination bung and faucet. No. 1,006,332; Oct. 17; Sp. p. 3893; Gaz. vol. 171; p. 680.
Wilson, Edwin, assignor of one-half to J. Boyle, Lynn, Mass. Launching device for aeroplanes. No. 988,611; Apr. 4; Sp. p. 693; Gaz. vol. 165; p. 111.
Wilson, Elihu C., Bakersfield, Cal. Underreamer. No. 981,510; Jan. 10; Sp. p. 3017; Gaz. vol. 162; p. 492.
Wilson, Eliza T. (See Hupner, Charles F., assignor.)
Wilson, Ellery L., Providence, R. I. Valve-actuating device for radiators. No. 1,002,351; Sept. 5; Sp. p. 398; Gaz. vol. 170; p. 56.
Wilson, Emilie M., Alameda, Cal. Hat-fastener. No. 1,011,394; Dec. 12; Sp. p. 2236; Gaz. vol. 173; p. 382.
Wilson, Erick, Hoquiam, Wash. Crayon-holder. No. 1,012,229; Dec. 19; Sp. p. 4130; Gaz. vol. 173; p. 709.
Wilson, Finley F. (See Wilson, Judge R., assignor.)
Wilson, Floyd M., Hartman, and J. P. Campbell, Lamar, Colo. Alfalfa feed. No. 1,005,392; Oct. 10; Sp. p. 1785; Gaz. vol. 171; p. 319.
Wilson, Francis W., Boston, Mass. Composite floor construction. No. 999,286; Aug. 1; Sp. p. 176; Gaz. vol. 169; p. 34.
Wilson, Frank E., and F. W. Knapp, Amsterdam, N. Y. Stitch-transferring mechanism for circular-knitting machines. No. 999,287; Aug. 1; Sp. p. 178; Gaz. vol. 169; p. 34.
Wilson, George, assignor to Automatic Laundry Appliance Company, Boston, Mass. Automatic controlling means for washing-machines. No. 1,005,093; Oct. 3; Sp. p. 1113; Gaz. vol. 171; p. 188.
Wilson, George S., *et al.* (See Schirra, Julius, assignor.)
Wilson, George S., Boston, Mass. Self-closing faucet. No. 1,012,779; Dec. 26; Sp. p. 5291; Gaz. vol. 173; p. 943.
Wilson, Harry, Vancouver, British Columbia, Canada. Logging sheave-block. No. 984,987; Feb. 21; Sp. p. 3706; Gaz. vol. 163; p. 655.
Wilson, Harry, and C. Guder, McKeesport, Pa. Vehicle-tire. No. 1,007,018; Oct. 24; Sp. p. 5414; Gaz. vol. 171; p. 949.

Alphabetical list of patentees—Continued.

Wilson, Harry, and O. R. Oehmler, Washington, D. C., assignors of one-third to E. A. Henkle, Philadelphia, Pa. Ship's-telegraph recorder. No. 991,585; May 9; Sp. p. 1631; Gaz. vol. 166; p. 301.
Wilson, Harry, Washington, D. C., and O. R. Oehmler, Seattle, Wash., assignors of one-third to E. A. Henkle, Philadelphia, Pa. Combined recording and indicating apparatus. No. 991,586; May 9; Sp. p. 1639; Gaz. vol. 166; p. 302.
Wilson, Harry H., *et al.* (See Price, Jessee F., assignor.)
Wilson, Hearley H., Altoona, Pa. Boiler-furnace. No. 997,529; July 11; Sp. p. 1929; Gaz. vol. 168; p. 346.
Wilson, Henry E., assignor of one-fourth to R. W. McKinney and one-fourth to D. Dee, Chicago, Ill. Automobile engine-starter. No. 985,719; Feb. 28; Sp. p. 5370; Gaz. vol. 163; p. 941.
Wilson, Herbert S., St. Louis, Mo. Wrapping-machine. No. 996,187; June 27; Sp. p. 4594; Gaz. vol. 167; p. 820.
Wilson, Howard O., Ainsworth, Nebr. Tire. No. 1,004,950; Oct. 3; Sp. p. 866; Gaz. vol. 171; p. 141.
Wilson, J. W., *et al.* (See Barrett, Julious E., assignor.)
Wilson, James, Woodcliff, N. J. Bridle. No. 987,420; Mar. 21; Sp. p. 3511; Gaz. vol. 164; p. 628.
Wilson, James A. (See Wilson, John M. and J. A.)
Wilson, James A., Fulda, Minn. Card-holder. No. 989,094; Apr. 11; Sp. p. 1691; Gaz. vol. 165; p. 294.
Wilson, James D., Baltimore, Md. Machine for hemming caps or disks with solder. No. 992,466; May 16; Sp. p. 3510; Gaz. vol. 166; p. 632.
Wilson, James E., Jett, Okla. Wire-stretcher. No. 997,725; July 11; Sp. p. 2362; Gaz. vol. 168; p. 415.
Wilson, James G., Larchmont, N. Y. Baffle for fireproof shutters. No. 983,104; Jan. 31; Sp. p. 6429; Gaz. vol. 162; p. 1117.
Wilson, James G., Larchmont, N. Y. Fireproof structure. No. 998,065; July 18; Sp. p. 3177; Gaz. vol. 168; p. 576.
Wilson, James G., Larchmont, N. Y. Automatic drop for fire-shutters. No. 1,011,691; Dec. 12; Sp. p. 2920; Gaz. vol. 173; p. 488.
Wilson, James H., Chicago, Ill. Collapsible box. No. 987,206; Mar. 21; Sp. p. 3064; Gaz. vol. 164; p. 555.
Wilson, James N. M., Chicago, Ill. Vaporizer. No. 1,009,816; Nov. 28; Sp. p. 4836; Gaz. vol. 172; p. 874.
Wilson, James R., Austin, assignor of one-half to S. D. Childs & Co., Chicago, Ill. Calendar-pad support. No. 1,008,509; Nov. 14; Sp. p. 1997; Gaz. vol. 172; p. 341.
Wilson, James S. (See Berg, Carl O., assignor.)
Wilson, John A., Jr., assignor to Noye Manufacturing Company, Buffalo, N. Y. Radiator. No. 982,334; Jan. 24; Sp. p. 4777; Gaz. vol. 162; p. 827.
Wilson, John C., Boston, Mass. Computing time-stamp. No. 1,008,763; Nov. 14; Sp. p. 2557; Gaz. vol. 172; p. 431.
Wilson, John C., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Tube-bending machine. No. 983,664; Feb. 7; Sp. p. 876; Gaz. vol. 163; p. 140.
Wilson, John C., assignor to The Simmons Manufacturing Company, Kenosha, Wis. Bending-machine. No. 1,007,834; Nov. 7; Sp. p. 834; Gaz. vol. 172; p. 65.
Wilson, John E., Los Angeles, Cal. Producing thin hard tubes from ductile metal. No. 987,093; Mar. 14; Sp. p. 2777; Gaz. vol. 164; p. 481.
Wilson, John E., and G. W. Green, assignors of one-third to E. A. Speer, Pen Argyl, Pa. Molding-cleaner. No. 984,988; Feb. 21; Sp. p. 3707; Gaz. vol. 163; p. 655.
Wilson, John L. (See Wilson, Charles M., assignor.)
Wilson, John L., assignor to E. E. Shields and F. B. Hall, Kansas City, Mo. Clothes-rack. No. 986,788; Mar. 14; Sp. p. 2182; Gaz. vol. 164; p. 380.
Wilson, John M., Montclair, N. J. Removing finish. No. 986,531; Mar. 14; Sp. p. 1645; Gaz. vol. 164; p. 292.
Wilson, John M., Lottie, La. Sectional drain-tile. No. 1,012,955; Dec. 26; Sp. p. 5714; Gaz. vol. 173; p. 1002.
Wilson, John M., Montclair, N. J., and J. A. Wilson, Brooklyn, N. Y. Nozzle for delivering viscous liquids, as paint-removers. No. 990,179; Apr. 18; Sp. p. 4028; Gaz. vol. 165; p. 694.
Wilson, John T., Abilene, Kans. Combined hoe and weed-cutter. No. 1,000,473; Aug. 15; Sp. p. 2690; Gaz. vol. 169; p. 499.
Wilson, Judge R., assignor of one-half to F. F. Wilson, Pineville, Ky. Drill-support. No. 999,137; July 25; Sp. p. 5537; Gaz. vol. 168; p. 984.
Wilson, Moses B., Colville, Wash. Stock-invoicer. No. 997,168; July 4; Sp. p. 1209; Gaz. vol. 168; p. 195.
Wilson, Nettie F. M., East Foxboro, Mass. Automatic feeding-hopper. No. 1,004,328; Sept. 26; Sp. p. 4716; Gaz. vol. 170; p. 834.
Wilson, Noah, Peru, Ind. Device for harvesting, binding, and shocking corn No. 981,048; Jan. 10; Sp. p. 1998; Gaz. vol. 162; p. 330.
Wilson, Peter M., assignor of one-half to J. M. R. Taylor, Providence, R. I. Spark-plug. No. 980,723; Jan. 3; Sp. p. 1178; Gaz. vol. 162; p. 188.
Wilson, R. B. (See Hughes, Joseph D., assignor.)
Wilson, Raleigh C., Portland, Oreg. Cover for household utensils. No. 992,094; May 9; Sp. p. 2652; Gaz. vol. 166; p. 472.
Wilson, Ralph B., Chicago, Ill. Loose-leaf binder. No. 990,324; Apr. 25; Sp. p. 4386; Gaz. vol. 165; p. 776.
Wilson, Ralph B., Chicago, Ill. Loose-leaf ledger. No. 992,318; May 16; Sp. p. 3203; Gaz. vol. 166; p. 581.
Wilson, Richard B. (See Bradley, Charles S., assignor.)
Wilson, Robert, Homestead, Okla. Combined door check and catch. No. 1,009,876; Nov. 28; Sp. p. 4949; Gaz. vol. 172; p. 894.
Wilson, Robert C., Newark, N. J. Machine for bending reinforcing-rods. No. 1,010,470; Dec. 5; Sp. p. 146; Gaz. vol. 173; p. 26.
Wilson, Roland A., Tampa, Fla. Humidor. No. 1,012,494; Dec. 19; Sp. p. 4649; Gaz. vol. 173; p. 798.
Wilson, Rupert E., Oakland, assignor of one-fourth to C. A. Lukas, Santa Rosa, and one-fourth to A. E. Lucas, Oakland, Cal. Car-brake. No. 981,963; Jan. 17; Sp. p. 4020; Gaz. vol. 162; p. 671.
Wilson, Samuel M., assignor to The J. G. Brill Company, Philadelphia, Pa. Telegraph-code system. No. 997,890; July 11; Sp. p. 2760; Gaz. vol. 168; p. 473.
Wilson, Samuel T., assignor of one-half to C. K. McDermott, Charleston, W. Va. Grain-car door. No. 999,354; Aug. 1; Sp. p. 322; Gaz. vol. 169; p. 57.
Wilson, Samuel W., Atwater, Ohio. Safety attachment for pocket-books. No. 1,004,127; Sept. 26; Sp. p. 4310; Gaz. vol. 170; p. 766.
Wilson, Sarah E., Prentiss, Okla. Lunch-receptacle. No. 995,935; June 20; Sp. p. 4022; Gaz. vol. 167; p. 699.
Wilson, Simeon, assignor of one-half to W. W. Johnson, Gordon, Tex. Gate-operating mechanism. No. 1,011,300; Dec. 12; Sp. p. 2035; Gaz. vol. 173; p. 350.
Wilson, Stephen G., Philadelphia, Pa. Handle attachment for implement-holders. No. 1,008,764; Nov. 14; Sp. p. 2569; Gaz. vol. 172; p. 432.
Wilson, Sybella K., Ladysmith, Wis. Skirt-gage. No. 1,001,495; Aug. 22; Sp. p. 4899; Gaz. vol. 169; p. 885.
Wilson, Thatcher P. (See Kellum and Wilson.)
Wilson, Thatcher P., Los Angeles, Cal. Indicator-actuating mechanism. No. 997,590; July 11; Sp. p. 2056; Gaz. vol. 168; p. 367.
Wilson, Thomas. (See Hooker, Luke B., assignor.)
Wilson, Thomas N., Spokane, Wash. Trowel. No. 1,003,388; Sept. 12; Sp. p. 2618; Gaz. vol. 170; p. 449.
Wilson, Walter A. (See Sayers, Wilson, and Thorburn.)
Wilson, Walter A. (See Sohlman and Wilson.)
Wilson, William A., Santa Clara, Cal. Lubricator. No. 982,335; Jan. 24; Sp. p. 4779; Gaz. vol. 162; p. 827.
Wilson, William D. (See Babcock, Norman S., assignor.)
Wilson, William H., New Bedford, Mass. Loom-shuttle. No. 987,524; Mar. 21; Sp. p. 3707; Gaz. vol. 164; p. 662.
Wilson, William H., Marceline, Mo. Road smoother and grader. No. 1,004,128; Sept. 26; Sp. p. 4312; Gaz. vol. 170; p. 767.
Wilson, William W. (See Fox and Wilson.)
Wilson, Wylie G., Denver, Colo. Refrigerator. No. 980,724; Jan. 3; Sp. p. 1180; Gaz. vol. 162; p. 188.
Wilson, Wylie G., Denver, Colo. Refrigerator. No. 981,148; Jan. 10; Sp. p. 2221; Gaz. vol. 162; p. 366.
Wilt, Andrew W., Port Chester, N. Y. Automobile-wheel. No. 999,689; Aug. 1; Sp. p. 967; Gaz. vol. 169; p. 169.
Wilt, Charles T. and E. E., assignors to themselves, copartners doing business under firm-name of Chas. T. Wilt, Chicago, Ill. Suspension fixture device for trunks and the like. No. 1,000,654; Aug. 15; Sp. p. 3112; Gaz. vol. 169; p. 564.
Wilt, Firm of Chas. T. (See Wilt, Charles T. and E. E., assignors.)
Wilt, Dorah W., University Place, Nebr. Tire device. No. 1,010,560; Dec. 5; Sp. p. 351; Gaz. vol. 173; p. 56.
Wilt, Elmer E. (See Wilt, Charles T. and E. E.)
Wiltfong, James D., Lawrence, Kans. Combined curb and gutter mold. No. 995,048; June 13; Sp. p. 2101; Gaz. vol. 167; p. 366.
Wilthew, Walter R. (See Griffiths, Douglas, assignor.)
Wilton, Ralph P. (See Shee, Frederick W., assignor.)
Wilton, Ralph P. (See Shee, Parke E., assignor.)
Wiltse, Sara E., West Roxbury, Mass. Dust-moccasin. No. 988,159; Mar. 28; Sp. p. 5117; Gaz. vol. 164; p. 907.
Wilzin, Arthur, St.-Ouen, France. Mechanical feeding apparatus for machines for closing metal containers. No. 998,316; July 18; Sp. p. 3760; Gaz. vol. 168; p. 668.
Wimbrow, Peter A., Whaleysville, Md. Berry-crate attachment. No. 1,011,692; Dec. 12; Sp. p. 2922; Gaz. vol. 173; p. 488.
Wimmer, Karl H. (See Meyer, Roselius, and Wimmer.) (Reissue.)
Wimmer, Karl H., Bremen, Germany. Decaffeinizing coffee-beans. No. 1,009,610; Nov. 21; Sp. p. 4402; Gaz. vol. 172; p. 759.
Wimperis, Harry E., Chelsea, London, assignor of one-half to G. K. B. Elphinstone, London, England. Accelerometer. No. 982,336; Jan. 24; Sp. p. 4780; Gaz. vol. 162; p. 828.
Winand, Paul, Cologne, Germany. Internal-combustion engine applicable to submarine boats. No. 1,003,565; Sept. 19; Sp. p. 3019; Gaz. vol. 170; p. 544.
Winans, Daniel M. (See Winans, Thomas J. and D. M.)
Winans Judson Company. (See Marston, Joseph C., assignor.)
Winans Machine Company, The. (See Winans, Thomas J. and D. M., assignors.)

Alphabetical list of patentees—Continued.

Winans, Thomas J. and D. M., assignors to The Winans Machine Company, Binghamton, N. Y. Rotary engine. No. 992,929; May 23; Sp. p. 4501; Gaz. vol. 166; p. 825.
Winans, Thomas J. and D. M., assignors to The Winans Machine Company, Binghamton, N. Y. Cleaning apparatus. No. 1,003,844; Sept. 19; Sp. p. 3591; Gaz. vol. 170; p. 639.
Winans, Wesley G., Cleveland, Ohio. Attachment for hinged seats. No. 985,239; Feb. 28; Sp. p. 4300; Gaz. vol. 163; p. 777.
Winans, Wesley G., Kansas City, Mo. Truck. No. 1,006,891; Oct. 24; Sp. p. 5165; Gaz. vol. 171; p. 907.
Winberg, Anders W., Redding, Cal. Engine. No. 991,680; May 9; Sp. p. 1853; Gaz. vol. 166; p. 335.
Winberg, Carl F., New York, N. Y. Extensible awning. No. 1,004,129; Sept. 26; Sp. p. 4314; Gaz. vol. 170; p. 767.
Winchenbach, Chester A., Waldoboro, Me. Carriage-wrench. No. 991,681; May 9; Sp. p. 1857; Gaz. vol. 166; p. 336.
Winchester Repeating Arms Co. (See Bennett, Winchester, assignor.)
Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)
Winchester Repeating Arms Co. (See Maple and Turner, assignors.)
Winchester Repeating Arms Company. (See Knous, Franklin F., assignor.)
Winckler, Albert and C., Lyon, France. Water-purifying apparatus. No. 998,317; July 18; Sp. p. 3763; Gaz. vol. 168; p. 669.
Winckler, Charles. (See Winckler, Albert and C.)
Winckler, Henry J., San Antonio, Tex. Buggy-wrench. No. 1,003,845; Sept. 19; Sp. p. 3594; Gaz. vol. 170; p. 639.
Winden, Andrew, Madelia, Minn. Transmission apparatus. No. 1,009,204; Nov. 21; Sp. p. 3496; Gaz. vol. 172; p. 616.
Winder, Samuel E., Salem, N. J., assignor to A. P. Williams, trustee, West Upton, Mass. Glass-bottle machine. No. 998,824; July 25; Sp. p. 4855; Gaz. vol. 168; p. 877.
Windhövel, Carl W., and C. Weÿer, Solingen, Germany. Pocket-corkscrew. No. 989,680; Apr. 18; Sp. p. 2979; Gaz. vol. 165; p. 525.
Windle, John E., Worcester, Mass. Attachment for turret-lathes. No. 1,001,109; Aug. 22; Sp. p. 4141; Gaz. vol. 169; p. 758.
Window Glass Machine Company. (See Bridge, Richard W., assignor.)
Window Glass Machine Company. (See Frink, Robert L., assignor.)
Window Glass Machine Company. (See McMullin, Matthew K., assignor.)
Window Glass Machine Company. (See Wadsworth, Frank L. O., assignor.)
Windrich, Anna M., Lee, Mass. Collar-supporter. No. 991,402; May 2; Sp. p. 1226; Gaz. vol. 166; p. 204.
Windridge, James, assignor to The Lyman Gun Sight Corporation, Middlefield, Conn. Sight for firearms. No. 997,726; July 11; Sp. p. 2364; Gaz. vol. 168; p. 415.
Windsor, Benjamin F., Kenosha, Wis. Spring bottom or seat construction. No. 999,422; Aug. 1; Sp. p. 453; Gaz. vol. 169; p. 79.
Windus, Gerald A., Estancia, Drabble, Argentina. Apparatus for dehorning calves. No. 980,725; Jan. 3; Sp. p. 1181; Gaz. vol. 162; p. 188.
Wine, Noah. (See Mohn and Wine.)
Wine, William E., Wilmington, N. C. Locomotive ash-pan. No. 991,257; May 2; Sp. p. 914; Gaz. vol. 166; p. 155.
Wineberg, Reuben, Walsall, England. Toe or boot clip for the pedals of cycles and the like. No. 990,090; Apr. 18; Sp. p. 3838; Gaz. vol. 165; p. 665.
Winebrenner, Andrew J., Noble township, Noble county, assignor of one-half to A. L. Baughman, Wolflake, Ind. Attachment for corn drills or planters. No. 1,003,846; Sept. 19; Sp. p. 3595; Gaz. vol. 170; p. 640.
Wineman, Gustave A., Detroit, Mich. Cash-register. No. 983,590; Feb. 7; Sp. p. 730; Gaz. vol. 163; p. 114.
Wines, Walter E., Minneapolis, Minn. Paper-feeding device. No. 999,936; Aug. 8; Sp. p. 1486; Gaz. vol. 169; p. 282.
Winestock, Otto C., Perkinsville, Vt. Spark-plug. No. 993,214; May 23; Sp. p. 5107; Gaz. vol. 166; p. 920.
Winfield, William C., assignor to The Day Ward Company, Warren, Ohio. Sand-molding machine. No. 994,626; June 6; Sp. p. 1085; Gaz. vol. 167; p. 181.
Wing, Daniel B., assignor to H. E. Hagglund, Chicago, Ill. Implement-holder. No. 1,000,704; Aug. 15; Sp. p. 3217; Gaz. vol. 169; p. 581.
Wing, Daniel B., assignor to H. E. Hagglund, Chicago, Ill. Combination mop and brush holder. No. 1,004,516; Sept. 26; Sp. p. 5103; Gaz. vol. 170; p. 898.
Wing, Daniel B., assignor to H. E. Hagglund, Chicago, Ill. Brush-holder. No. 1,004,613; Oct. 3; Sp. p. 141; Gaz. vol. 171; p. 25.
Wing, Esther, Eureka, Cal. Baking-pan. No. 987,525; Mar. 21; Sp. p. 3710; Gaz. vol. 164; p. 662.
Wingate, Arthur M., Revere, Mass. Vehicle-top. No. 1,007,168; Oct. 31; Sp. p. 5775; Gaz. vol. 171; p. 1056.
Wingert, Howard P., Elizabeth, N. J., and H. Jones, Suffern, assignors to E. H. Fallows, New York, N. Y. Brake-shoe. No. 995,049; June 13; Sp. p. 2103; Gaz. vol. 167; p. 366.
Winget, John, New York, N. Y. Sanitary bed or spring bed-bottom. No. 992,095; May 9; Sp. p. 2653; Gaz. vol. 166; p. 472.
Wingett, John W., Washington, Pa. Nut-lock. No. 1,004,951; Oct. 3; Sp. p. 867; Gaz. vol. 171; p. 141.
Wingfield, Walter S. (See Cooke, William E., assignor.)
Wingquist, Sven G., Gottenborg, Sweden. Self-adjusting ball-bearing. No. 980,582; Jan. 3; Sp. p. 881; Gaz. vol. 162; p. 141.
Winkhaus, Frederick, *et al.* (See Leggett and Appleyard, assignors.)
Winkleman, John W., Canton, Ohio. Shade and curtain bracket. No. 995,392; June 13; Sp. p. 2814; Gaz. vol. 167; p. 478.
Winkler, Arthur F., Phillips, Wis. Sleigh-knee. No. 1,011,099; Dec. 5; Sp. p. 1537; Gaz. vol. 173; p. 243.
Winkler, Carl, Newark, N. J. Dust-collector. No. 993,009; May 23; Sp. p. 4676; Gaz. vol. 166; p. 853.
Winkler, Charles, New York, N. Y. Drying and stretching frame. No. 1,010,561; Dec. 5; Sp. p. 352; Gaz. vol. 173; p. 56.
Winkler, Christian, Portland, Oreg. Planer-head. No. 994,965; June 13; Sp. p. 1923; Gaz. vol. 167; p. 337.
Winkler, Christian, Portland, Oreg. Duplex tool-support. No. 1,009,005; Nov. 14; Sp. p. 3075; Gaz. vol. 172; p. 511.
Winkler, Ehregott T., Kansas City, Mo. Automatic regulation of the evaporating pressure in refrigerating systems. No. 985,563; Feb. 28; Sp. p. 5015; Gaz. vol. 163; p. 888.
Winkler, Ehregott T., assignor of one-half to J. W. Roberts, Kansas City, Mo. Regulating-valve. No. 982,195; Jan. 17; Sp. p. 4463; Gaz. vol. 162; p. 748.
Winkler, Frank, Kansas City, Kans. Jewel remover and replacer. No. 994,229; June 6; Sp. p. 263; Gaz. vol. 167; p. 45.
Winkler, Hubert, Moscow, Russia. Air-filter. No. 1,002,618; Sept. 5; Sp. p. 987; Gaz. vol. 170; p. 146.
Winkley Company, The. (See Knott, Frank W., assignor.)
Winkley, Erastus E., Lynn, Mass. Presser-foot mechanism. No. 980,726; Jan. 3; Sp. p. 1183; Gaz. vol. 162; p. 188.
Winkley, Erastus E., Lynn, Mass. Heel-nailing machine. No. 983,852; Feb. 7; Sp. p. 1275; Gaz. vol. 163; p. 204.
Winkley, Erastus E., Lynn, Mass. Welt-butting machine. No. 984,631; Feb. 21; Sp. p. 3005; Gaz. vol. 163; p. 533.
Winkley, Erastus E., Lynn, Mass. Shoe-sewing machine. No. 993,490; May 30; Sp. p. 5708; Gaz. vol. 166; p. 1044.
Winkley, Erastus E., Lynn, Mass. Channel-guide mechanism for shoe-sewing machines. No. 1,002,619; Sept. 5; Sp. p. 988; Gaz. vol. 170; p. 146.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Sole-leveling machine. No. 1,011,301; Dec. 12; Sp. p. 2036; Gaz. vol. 173; p. 350.
Winkley, Frank D., assignor to Fuller & Johnson Manufacturing Company, Madison, Wis. Combined pump-jack and engine base. No. 980,727; Jan. 3; Sp. p. 1186; Gaz. vol. 162; p. 189.
Winlack, Thomas, Niles, Mich. Printing-press. No. 993,429; May 30; Sp. p. 5580; Gaz. vol. 166; p. 1024.
Winn, Elisha S., Culloden, Ga. Dusting-brush. No. 983,965; Feb. 14; Sp. p. 1543; Gaz. vol. 163; p. 271.
Winn, George L., Jersey City, N. J. Dressing-comb. No. 982,918; Jan. 31; Sp. p. 6025; Gaz. vol. 162; p. 1055.
Winn, Herbert J., assignor to Taylor Instrument Companies, Rochester, N. Y. Receptacle or case for thermometers and the like. No. 990,325; Apr. 25; Sp. p. 4390; Gaz. vol. 165; p. 777.
Winn, Richard T., Cliftondale, assignor to Leslie Manufacturing Company, Boston, Mass. Apparatus for grinding blades. No. 981,511; Jan. 10; Sp. p. 3019; Gaz. vol. 162; p. 492.
Winn, Richard T., Cliftondale, assignor to Leslie Manufacturing Company, Boston, Mass. Apparatus for sharpening blades. No. 985,088; Feb. 21; Sp. p. 3902; Gaz. vol. 163; p. 690.
Winn, Richard T., Cliftondale, assignor to Leslie Manufacturing Company, Boston, Mass. Safety-razor. No. 985,089; Feb. 21; Sp. p. 3907; Gaz. vol. 163; p. 690.
Winn, Richard T., Cliftondale, assignor to Leslie Manufacturing Company, Boston, Mass. Apparatus for grinding blades. No. 1,009,877; Nov. 28; Sp. p. 4950; Gaz. vol. 172; p. 894.
Winner, Clarence W., Perrysville, Pa. Locking whip-socket. No. 985,090; Feb. 21; Sp. p. 3911; Gaz. vol. 163; p. 691.
Winnie, Albert, Traverse City, Mich. Artificial fishing-bait. No. 1,009,363; Nov. 21; Sp. p. 3881; Gaz. vol. 172; p. 675.
Winning, Carl, Muscatine, Iowa. Billiard-cue. No. 983,189; Jan. 31; Sp. p. 6571; Gaz. vol. 162; p. 1144.
Winnow, John J., Mobile, Ala. Valve. No. 1,008,097; Nov. 7; Sp. p. 967; Gaz. vol. 172; p. 156.
Winsall, George P., Burlington, Wis. Railway-tie. No. 993,430; May 30; Sp. p. 5580; Gaz. vol. 166; p. 1024.

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Winship, Boit & Co. (See Patchett and Burkee, assignors.)
Winskill, Christopher, Hillcrest, British Columbia, Canada. Hoop-driver. No. 988,055; Mar. 28; Sp. p. 4923; Gaz. vol. 164; p. 874.
Winslow Bros. Company, The. (See Kail, Jackson L., assignor.)
Winslow Bros. Company, The. (See Winslow, Francis A., assignor.)
Winslow, Francis A., assignor to The Winslow Bros. Company, Chicago, Ill. Staircase. No. 989,095; Apr. 11; Sp. p. 1691; Gaz. vol. 165; p. 294.
Winslow, Lenna R., Chicago, Ill. Voting-machine. No. 986,789; Mar. 14; Sp. p. 2184; Gaz. vol. 164; p. 381.
Winslow, Lenna R., Chicago, Ill. Voting-machine. No. 986,790; Mar. 14; Sp. p. 2188; Gaz. vol. 164; p. 381.
Winslow, Lenna R., Chicago, Ill. Voting-machine. No. 1,000,062; Aug. 8; Sp. p. 1760; Gaz. vol. 169; p. 325.
Winslow, William H., assignor to The Steam Power Devices Company, Chicago, Ill. Muffler. No. 1,005,913; Oct. 17; Sp. p. 2940; Gaz. vol. 171; p. 533.
Winsor, Paul, Weston, Mass. Car-coupling. No. 992,319; May 16; Sp. p. 3206; Gaz. vol. 166; p. 582.
Winstanley, Thomas, assignor to British Humidifier Company, Limited, Blackburn, England. Humidifier or spray-producer. No. 981,149; Jan. 10; Sp. p. 2222; Gaz. vol. 162; p. 366.
Winston, Charles, Topeka, Kans. Flying-machine. No. 997,727; July 11; Sp. p. 2367; Gaz. vol. 168; p. 415.
Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone testing system. No. 983,966; Feb. 14; Sp. p. 1544; Gaz. vol. 163; p. 272.
Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Party-line ringing system. No. 992,836; May 23; Sp. p. 4291; Gaz. vol. 166; p. 791.
Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,001,723; Aug. 29; Sp. p. 5385; Gaz. vol. 169; p. 993.
Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,002,891; Sept. 12; Sp. p. 1600; Gaz. vol. 170; p. 277.
Winston, Charles S., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Central-energy telephone system. No. 1,006,615; Oct. 24; Sp. p. 4554; Gaz. vol. 171; p. 812.
Winston, Charles S., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone trunking system. No. 1,008,232; Nov. 7; Sp. p. 1265; Gaz. vol. 172; p. 206.
Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,010,471; Dec. 5; Sp. p. 148; Gaz. vol. 173; p. 26.
Winston, Charles S., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Service-meter system. No. 1,012,780; Dec. 26; Sp. p. 5292; Gaz. vol. 173; p. 943.
Winston, Charles S., and E. H. Rupe, assignors to Kellogg Switchboard & Supply Company, Chicago, Ill. Telephone system. No. 1,005,393; Oct. 10; Sp. p. 1786; Gaz. vol. 171; p. 319.
Winter, George J., Buffalo, N. Y. Door-check. No. 995,831; June 20; Sp. p. 3802; Gaz. vol. 167; p. 662.
Winter, Gordon, Hephzibah, Ga. Supporting-rack. No. 1,002,104; Aug. 29; Sp. p. 6190; Gaz. vol. 169; p. 1119.
Winter, Harry R., Toronto, Ontario, Canada. Necktie. No. 1,000,869; Aug. 15; Sp. p. 3562; Gaz. vol. 169; p. 640.
Winter, Heinrich, Hamburg, Germany. Ameliorating the taste of coffee. No. 997,431; July 11; Sp. p. 1734; Gaz. vol. 168; p. 315.
Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Clutch. No. 981,345; Jan. 10; Sp. p. 2687; Gaz. vol. 162; p. 436.
Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Channeling-machine. No. 1,002,892; Sept. 12; Sp. p. 1604; Gaz. vol. 170; p. 278.
Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Machine for operating upon soles. No. 1,004,614; Oct. 3; Sp. p. 143; Gaz. vol. 171; p. 25.
Winter, Henry W., Methuen, Mass., assignor to United Shoe Machinery Company, Paterson, N. J. Welt-laying machine. No. 1,005,394; Oct. 10; Sp. p. 1791; Gaz. vol. 171; p. 320.
Winter, Henry W., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for setting heel and sole protectors for boots and shoes. No. 983,665; Feb. 7; Sp. p. 879; Gaz. vol. 163; p. 140.
Winter, Henry W., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for setting heel and sole protectors. No. 994,354; June 6; Sp. p. 518; Gaz. vol. 167; p. 90.
Winter, Henry W., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for setting heel and sole protectors. No. 1,000,870; Aug. 15; Sp. p. 3564; Gaz. vol. 169; p. 640.
Winter, Henry W., Lawrence, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for setting heel and sole protectors for boots and shoes. No. 1,001,110; Aug. 22; Sp. p. 4142; Gaz. vol. 169; p. 758.
Winter, Henry W., Boston, Mass., assignor to United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Machine for setting heel and sole protectors for boots or shoes. No. 1,002,189; Aug. 29; Sp. p. 6349; Gaz. vol. 169; p. 1148.
Winter, Louis. (See Frees and Winter.)
Winter, Paul S. (See A'Hearn and Winter.)
Winter, Rudolph G., Milwaukee, Wis. Hinge construction for doors. No. 989,219; Apr. 11; Sp. p. 1947; Gaz. vol. 165; p. 337.
Winter, Rudolph G., Milwaukee, Wis. Shutter-bower. No. 1,003,389; Sept. 12; Sp. p. 2619; Gaz. vol. 170; p. 450.
Winter, Rudolph G., Milwaukee, Wis. Screen-door catch. No. 1,008,098; Nov. 7; Sp. p. 968; Gaz. vol. 172; p. 156.
Winter, Wellington P., assignor of one-half to O. S. Brumback, Toledo, Ohio. Air-purifying apparatus. No. 1,009,205; Nov. 21; Sp. p. 3497; Gaz. vol. 172; p. 617.
Winter, William A., New York, N. Y., and C. M. Peabody, South Orange, N. J. Vacuum-tube. No. 984,726; Feb. 21; Sp. p. 3212; Gaz. vol. 163; p. 568.
Winter, Willy, Brussels, Belgium. Carbureting apparatus. No. 1,004,329; Sept. 26; Sp. p. 4717; Gaz. vol. 170; p. 834.
Winterbottom, Samuel, Utica, and R. H. Bennett, Amsterdam, N. Y. Ornamenting device. No. 984,632; Feb. 21; Sp. p. 3009; Gaz. vol. 163; p. 533.
Winterhoff, Friedrich W., Dusseldorf, Germany. Membrane-pump. No. 992,837; May 23; Sp. p. 4294; Gaz. vol. 166; p. 792.
Winterling, Carl, Frankfort-on-the-Main, Germany. Syllable-writing machine. No. 988,160; Mar. 28; Sp. p. 5118; Gaz. vol. 164; p. 908.
Wintermute, John W., Portland, Oreg. Potato-assorter. No. 996,549; June 27; Sp. p. 5378; Gaz. vol. 167; p. 941.
Winters-Coleman Scale Company, The. (See Osgood, Horatio B., assignor.) (Reissue.)
Winters, Frank J., Jr., assignor to himself and T. H. Kip, New York, N. Y. Drafting appliance. No. 1,013,086; Dec. 26; Sp. p. 5986; Gaz. vol. 173; p. 1047.
Winters, Frederick V. (See Marshall, Bertice E., assignor.)
Winters, Frederick V., New York, N. Y. Shoe for elevator-guides. No. 1,003,566; Sept. 19; Sp. p. 3022; Gaz. vol. 170; p. 545.
Winters, George W., De Queen, Ark. Carbureter. No. 1,012,781; Dec. 26; Sp. p. 5296; Gaz. vol. 173; p. 943.
Winters, James L. (See Baerenklau, Flanagan, and Winters.)
Winters, John C., Mount Morris, N. Y. Continuous-process cooker. No. 1,006,162; Oct. 17; Sp. p. 3502; Gaz. vol. 171; p. 621.
Winters, Lincoln, and S. Hofstetter, Freeport, Ill. Airship. No. 995,750; June 20; Sp. p. 3617; Gaz. vol. 167; p. 634.
Winthrop Manufacturing Company. (See Barney, Frank P., assignor.)
Winton, Alexander, Cleveland, Ohio. Carbureter. No. 984,874; Feb. 21; Sp. p. 3497; Gaz. vol. 163; p. 618.
Winton, Alexander, Cleveland, Ohio. Deck-plate filler for vessels using oil fuel. No. 999,688; Aug. 1; Sp. p. 965; Gaz. vol. 169; p. 169.
Winton, Alexander, Cleveland, Ohio. Safety starting and igniting mechanism. No. 1,011,693; Dec. 12; Sp. p. 2923; Gaz. vol. 173; p. 488.
Winton, Alexander, Cleveland, Ohio. Carbureter. No. 1,011,694; Dec. 12; Sp. p. 2925; Gaz. vol. 173; p. 489.
Winton, Alexander, Cleveland, Ohio. Valve-operating mechanism for explosive-engines. No. 1,011,695; Dec. 12; Sp. p. 2926; Gaz. vol. 173; p. 489.
Winton, Alexander, Cleveland, Ohio. Carbureter. No. 1,011,696; Dec. 12; Sp. p. 2927; Gaz. vol. 173; p. 489.
Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Sliding-gear transmission mechanism. No. 990,618; Apr. 25; Sp. p. 5050; Gaz. vol. 165; p. 880.
Winton, Alexander, and H. B. Anderson, assignors to The Winton Motor Carriage Company, Cleveland, Ohio. Carbureter. No. 997,169; July 4; Sp. p. 1211; Gaz. vol. 168; p. 195.
Winton Motor Carriage Company, The. (See Perry, John A., assignor.)
Winton Motor Carriage Company, The. (See Thiemer, William H., assignor.)
Winton Motor Carriage Company, The. (See Winton and Anderson, assignors.)
Winton, Robert A., Bowie, Tex. Air-brake coupling. No. 995,832; June 20; Sp. p. 3803; Gaz. vol. 167; p. 662.
Wintz, Philip, Burbank, Cal. Molding-machine. No. 1,000,474; Aug. 15; Sp. p. 2690; Gaz. vol. 169; p. 499.
Wintz, Thornton E., Humble, Tex. Pump. No. 989,096; Apr. 11; Sp. p. 1693; Gaz. vol. 165; p. 295.
Wintz, Thornton E., Humble, Tex. Valve. No. 1,008,399; Nov. 14; Sp. p. 1729; Gaz. vol. 172; p. 303.

Winz, August, Rüttenscheid, near Essen-on-the-Ruhr, Germany. Prop for mines. No. 1,006,163; Oct. 17; Sp. p. 3504; Gaz. vol. 171; p. 621.
Wipfler, Louis, New York, N. Y. Arc-lamp cleaner. No. 981,233; Jan. 10; Sp. p. 2447; Gaz. vol. 162; p. 397.
Wirfs, Edward J., Memphis, Tenn. Cold-storage-room door. No. 987,526; Mar. 21; Sp. p. 3711; Gaz. vol. 164; p. 663.
Wirsching Organ Company, The. (See Wirsching, Philipp, assignor.)
Wirsching, Philipp, assignor to The Wirsching Organ Company, Salem, Ohio. Self-playing musical instrument. No. 988,612; Apr. 4; Sp. p. 694; Gaz. vol. 165; p. 111.
Wirsing, Fred, Newport, Ky. Emergency-brake for street-cars. No. 995,311; June 13; Sp. p. 2603; Gaz. vol. 167; p. 451.
Wirt, Charles, Philadelphia, Pa., assignor, by mesne assignments, to Wirt Electric Specialty Company. Resistance unit and making the same. No. 994,355; June 6; Sp. p. 523; Gaz. vol. 167; p. 90.
Wirt Electric Specialty Company. (See Wirt, Charles, assignor.)
Wirt, Herbert C., Plymouth, Mass. Socket for incandescent electric lamps. No. 1,011,544; Dec. 12; Sp. p. 2577; Gaz. vol. 173; p. 436.
Wirt, Paul E., Bloomsburg, Pa. Tire construction. No. 1,009,364; Nov. 21; Sp. p. 3882; Gaz. vol. 172; p. 676.
Wirt, Paul E., Bloomsburg, Pa. Tire construction. No. 1,009,365; Nov. 21; Sp. p. 3885; Gaz. vol. 172; p. 676.
Wirt, Paul E., Bloomsburg, Pa. Tire construction. No. 1,009,366; Nov. 21; Sp. p. 3892; Gaz. vol. 172; p. 676.
Wirt, Reuben D. (See Parker and Wirt.)
Wirt, Reuben D., Philadelphia, Pa. Bag-holder. No. 1,012,495; Dec. 19; Sp. p. 4653; Gaz. vol. 173; p. 799.
Wirth, Christoph, Nuremberg, Germany. Wireless receiving electric system. No. 1,012,496; Dec. 19; Sp. p. 4654; Gaz. vol. 173; p. 799.
Wirth, Philip W. (See Mooney, Edward L., assignor.)
Wirz, Otto, assignor to Werner & Pfleiderer, Canstatt, Germany. Apparatus for drying dough and pastry goods. No. 992,320; May 16; Sp. p. 3207; Gaz. vol. 166; p. 582.
Wise, Alexander E., New York, N. Y. Braid-guide for sewing-machines. No. 1,012,573; Dec. 19; Sp. p. 4820; Gaz. vol. 173; p. 827.
Wise, Byron P. (See Camp, Maynard, and Wise.)
Wise Furnace Co., The. (See Wise, Wilbert G., assignor.)
Wise, George W. and H. A., assignors to The Wise Soda Apparatus Company, Cleveland, Ohio. Metallic frame for soda-fountain counters. No. 1,002,950; Sept. 12; Sp. p. 1728; Gaz. vol. 170; p. 299.
Wise, Henry, assignor of one-half to O. Dixon, Frankfort, Orange River Colony, South Africa. Corn-harvesting machine. No. 993,010; May 23; Sp. p. 4680; Gaz. vol. 166; p. 853.
Wise, Henry A. (See Wise, George W. and H. A.)
Wise, Henry R., Denver, Colo. Transmission-gearing. No. 992,321; May 16; Sp. p. 3209; Gaz. vol. 166; p. 583.
Wise, James. (See Byrne and Wise.)
Wise, James B. (See Davis, Merrill, assignor.)
Wise, James B., Watertown, N. Y. Waste-fitting. No. 1,008,400; Nov. 14; Sp. p. 1730; Gaz. vol. 172; p. 304.
Wise, Julius W. (See Lee, Isaac E., assignor.)
Wise, Robert W., Mallory, S. C. Cultivator. No. 984,174; Feb. 14; Sp. p. 1988; Gaz. vol. 163; p. 341.
Wise Soda Apparatus Company, The. (See Wise, George W. and H. A., assignors.)
Wise, Wilbert G., assignor to The Wise Furnace Co., Akron, Ohio. Water-heater. No. 1,013,094; Dec. 26; Sp. p. 6002; Gaz. vol. 173; p. 1050.
Wiselogel, Christian D., assignor to Union Steel Screen Company, Limited, Albion, Mich. Rack. No. 993,491; May 30; Sp. p. 5716; Gaz. vol. 166; p. 1045.
Wiselogel, Frederick G., Indianapolis, Ind., assignor to United States Construction and Utilization Company, Rochester, N. Y. System of apparatus for treating garbage. No. 994,047; May 30; Sp. p. 6880; Gaz. vol. 166; p. 1235.
Wiseman, Haldon R., Turlock, Cal. Non-slipping shoe. No. 988,527; Apr. 4; Sp. p. 506; Gaz. vol. 165; p. 81.
Wiseman, Smith L., Chicago, Ill. Fruit-picker. No. 992,322; May 16; Sp. p. 3211; Gaz. vol. 166; p. 583.
Wisenant, Oscar H., Chicago, Ill. Wheel traction attachment. No. 980,728; Jan. 3; Sp. p. 1188; Gaz. vol. 162; p. 189.
Wisenant, Oscar, Chicago, Ill. Valve-spring-lifting device. No. 1,012,311; Dec. 19; Sp. p. 4298; Gaz. vol. 173; p. 737.
Wisenberg, Leroy O., Denver, Colo. Station-indicator. No. 1,002,352; Sept. 5; Sp. p. 399; Gaz. vol. 170; p. 57.
Wislicenus, Hans. (See Schmidt, Wislicenus, and Kleinstück.)
Wislicenus, Hans, Tharandt, near Dresden, Germany. Chimney. No. 988,920; Apr. 4; Sp. p. 1315; Gaz. vol. 165; p. 211.
Wisner, Clark N., Memphis, Tenn. Indicating device. No. 983,190; Jan. 31; Sp. p. 6572; Gaz. vol. 162; p. 1144.
Wisner, William E. (See Metcalf, George H., assignor.)
Wissinger, Fred, and W. E. Wilkinson, Portland, Oreg. Hydrocarbon-oil burner. No. 989,745; Apr. 18; Sp. p. 3117; Gaz. vol. 165; p. 547.
Wissler, Jacob, Lyndhurst, Va. Land-roller. No. 1,004,719; Oct. 3; Sp. p. 377; Gaz. vol. 171; p. 62.
Wissman, Frederick L., San Francisco, Cal. Sash-lock. No. 986,337; Mar. 7; Sp. p. 1209; Gaz. vol. 164; p. 195.
Wissmann, George E., Philadelphia, Pa. Jack-winding machine. No. 999,616; Aug. 1; Sp. p. 823; Gaz. vol. 169; p. 144.
Wistrand Manufacturing Company. (See Wistrand, Peter E., assignor.)
Wistrand, Peter E., assignor to Wistrand Manufacturing Company, Galva, Ill. Check-row and drill corn-planter. No. 1,002,105; Aug. 29; Sp. p. 6191; Gaz. vol. 169; p. 1120.
Witch Manufacturing Company. (See Norgrave, George B., assignor.)
Witham, Adelbert E., Boston, assignor of one-half to A. P. Chittenden, Brookline, Mass. Lever-locking device. No. 980,467; Jan. 3; Sp. p. 621; Gaz. vol. 162; p. 102.
Witham, David W., Sperry, assignor of one-half to J. W. Martin, Numa, Iowa. Door-opener. No. 984,458; Feb. 14; Sp. p. 2591; Gaz. vol. 163; p. 438.
Witherby, Edwin C. (See Pennock, Witherby, Blauvelt, Trump, and Tufts.)
Witherell, George E., and E. R. Seward, assignors to The Hartford Machine Screw Company, Hartford, Conn. Screw-slotting machine. No. 996,188; June 27; Sp. p. 4600; Gaz. vol. 167; p. 821.
Witherell, Loren R., assignor one-half to J. W. Anderson, Knoxville, Ill. Currycomb. No. 1,012,117; Dec. 19; Sp. p. 3883; Gaz. vol. 173; p. 671.
Witherell, Silas, Ottumwa, Iowa. Milk and cream testing device. No. 1,002,106; Aug. 29; Sp. p. 6194; Gaz. vol. 169; p. 1120.
Witherspoon, Robert A. (See Gibbs and Witherspoon.)
Witherspoon, Sewall A., St. Louis, Mo. Flying-machine. No. 991,811; May 9; Sp. p. 2107; Gaz. vol. 166; p. 377.
Witkowski, Louis C., Washington, D. C. Combined mailing-card and merchandise-carrier. No. 1,011,697; Dec. 12; Sp. p. 2930; Gaz. vol. 173; p. 490.
Witman, George F., York, Pa. Adjustable strike-plate and door-antirattler. No. 1,005,914; Oct. 17; Sp. p. 2943; Gaz. vol. 171; p. 533.
Witman, John J., Reading, Pa. Tooth-brush. No. 993,629; May 30; Sp. p. 6012; Gaz. vol. 166; p. 1093.
Witmer, Benjamin, Plattsville, Ontario, Canada. Self-adjusting wrench. No. 1,001,793; Aug. 29; Sp. p. 5539; Gaz. vol. 169; p. 1017.
Witmer, Samuel, Toledo, Ohio. Machine for grinding variable curves. No. 995,393; June 13; Sp. p. 2815; Gaz. vol. 167; p. 479.
Witt, George E., San Francisco, Cal. Liquid-fuel governor. No. 986,791; Mar. 14; Sp. p. 2193; Gaz. vol. 164; p. 382.
Witt, George E., San Francisco, Cal. Automatic boiler-feed-pump governor. No. 1,012,782; Dec. 26; Sp. p. 5300; Gaz. vol. 173; p. 944.
Witt, J. W., *et al.* (See Amann, Charles H., assignor.)
Witt, James H., Luttrell, Tenn. Saddle. No. 992,624; May 16; Sp. p. 3858; Gaz. vol. 166; p. 688.
Witt, Mary R., *et al.* (See Amann, Charles H., assignor.)
Witt, Otto R. D., Hamburg, Germany. Producing transparent camphor in shaped pieces. No. 995,510; June 20; Sp. p. 3083; Gaz. vol. 167; p. 549.
Witte, William H., Baltimore, Md. Means for the propulsion of vessels. No. 993,933; May 30; Sp. p. 6638; Gaz. vol. 166; p. 1196.
Wittekopf, William, Seattle, Wash. Water-sprinkler. No. 988,423; Apr. 4; Sp. p. 287; Gaz. vol. 165; p. 47.
Wittels, Leon, New York, N. Y. Blue-print-paper holder. No. 1,010,472; Dec. 5; Sp. p. 152; Gaz. vol. 173; p. 27.
Wittels, Leon, New York, N. Y. End support for boxes. No. 1,010,473; Dec. 5; Sp. p. 154; Gaz. vol. 173; p. 27.
Wittemann Brothers. (See Wittemann, Rudolph W., assignor.)
Wittemann, Rudolph W., assignor to Wittemann Brothers, New York, N. Y. Bottle-capping machine. No. 1,008,292; Nov. 7; Sp. p. 1400; Gaz. vol. 172; p. 227.
Wittenberg, Aladar E., Strassburg, Germany. Adjustable arch-support. No. 1,006,164; Oct. 17; Sp. p. 3505; Gaz. vol. 171; p. 621.
Wittenmeir, Frederick, assignor to Kroeschell Bros. Ice Machine Co., Chicago, Ill. Air-cooling apparatus. No. 988,613; Apr. 4; Sp. p. 700; Gaz. vol. 165; p. 111.
Wittenmeier, Frederick, assignor to Kroeschell Bros. Ice Machine Co., Chicago, Ill. Air-cooling apparatus. No. 1,003,129; Sept. 12; Sp. p. 2082; Gaz. vol. 170; p. 358.
Witter, George F. (See Konigsberg, Charles S., assignor.)
Witter, William S., Julesburg, Colo. Spark-plug. No. 1,008,935; Nov. 14; Sp. p. 2902; Gaz. vol. 172; p. 487.
Wittgenstein, Werner, Brunswick, Germany. Collecting-portfolio. No. 989,746; Apr. 18; Sp. p. 3118; Gaz. vol. 165; p. 548.
Witthoefft, Charles H., St. Louis, Mo. Mold for building concrete sewers and tunnels. No. 1,003,847; Sept. 19; Sp. p. 3596; Gaz. vol. 170; p. 640.
Witthoefft, Charles H., assignor to Witthoefft Collapsible Concrete Forms Company, St. Louis, Mo. Concrete-tunnel-molding apparatus. No. 1,004,615; Oct. 3; Sp. p. 148; Gaz. vol. 171; p. 26.

Alphabetical list of patentees—Continued.

Witthoefft Collapsible Concrete Forms Company. (See Witthoefft, Charles H., assignor.)
Wittig, Emil. (See Wittig, Karl and E.)
Wittig, Karl and E., Zell, Wiesenthal, Germany. Rotary engine. No. 985,091; Feb. 21; Sp. p. 3914; Gaz. vol. 163; p. 691.
Witting, Fritz. (See Pole, Witting, and Freyberg.)
Wittmann, George J., and P. E. King, Newburgh, N. Y. Valve-operating mechanism. No. 1,009,611; Nov. 21; Sp. p. 4403; Gaz. vol. 172; p. 759.
Witz, Robert. (See Korf and Witz.)
Witzel, Charles J., New York, N. Y. Metallic mattress. No. 989,316; Apr. 11; Sp. p. 2174; Gaz. vol. 165; p. 370.
Witzenmann, Emil. (See Koenig, Johann, assignor.)
Witzenmann, Emil, Pforzheim, Germany. Metallic spiral hose. No. 993,934; May 30; Sp. p. 6641; Gaz. vol. 166; p. 1196.
Witzenmann, Emil, Pforzheim, Germany. Brake-pipe for railway-cars. No. 995,209; June 13; Sp. p. 2402; Gaz. vol. 167; p. 417.
Witzenmann, Emil, Pforzheim, Germany. Metallic hose. No. 996,899; July 4; Sp. p. 620; Gaz. vol. 168; p. 102.
Wixcel, Samuel M., Marcus, Iowa. Hay-loader. No. 988,236; Mar. 28; Sp. p. 5260; Gaz. vol. 164; p. 933.
Wixon, Howard H., Chicago, Ill. Explosive-engine. No. 1,006,037; Oct. 17; Sp. p. 3211; Gaz. vol. 171; p. 576.
Wiza, Michael, Brooklyn, N. Y. Convertible car. No. 987,527; Mar. 21; Sp. p. 3713; Gaz. vol. 164; p. 663.
Wizard Patent Developing Company, The. (See Irving, James A., assignor.)
Wlost, Gustav A., Schramberg, Germany. Chiming mechanism. No. 1,002,620; Sept. 5; Sp. p. 990; Gaz. vol. 170; p. 147.
Wm. B. Scaife & Sons Company. (See Greth, John C. W., assignor.)
Wm. B. Scaife & Sons Company. (See Woods and Greth, assignors.)
Wm. F. Rothe and Company. (See Rothe, William F., assignor.)
Wm. L. Gilbert Clock Company. (See Alford, Frank R., assignor.)
Wm. L. Gilbert Clock Company. (See Owen, Arthur W., assignor.)
Wm. Wrigley, Jr. Company. (See Price, Albert M., assignor.)
Wodraska, George E., Academy, S. D. Harrow attachment. No. 1,009,817; Nov. 28; Sp. p. 4838; Gaz. vol. 172; p. 875.
Woegerer, Carl, assignor to Art Fibre Co., Norristown, Pa. Making spinnerets for use in manufacture of artificial silk. No. 988,424; Apr. 4; Sp. p. 288; Gaz. vol. 165; p. 47.
Woehler, Henry G., assignor of three-fourths to C. Madlinger, St. Louis, and one-fourth to C. Downey, Ironton, Mo. Corn-planter. No. 998,938; July 25; Sp. p. 5142; Gaz. vol. 168; p. 918.
Woehrle, Henriette B., Newark, N. J., assignor to The Singer Manufacturing Company. Sewing-machine attachment. No. 988,528; Apr. 4; Sp. p. 507; Gaz. vol. 165; p. 81.
Woerner, Eügen, Cannstatt, assignor to Firm of R. Bosch, Stuttgart, Germany. Lubricating system. No. 1,008,401; Nov. 14; Sp. p. 1732; Gaz. vol. 172; p. 304.
Woerner, Frank W., *et al.* (See Marley and Little, assignors.)
Wogenstahl, Leo J., San Antonio, Tex. Automobile-lamp. No. 991,587; May 9; Sp. p. 1645; Gaz. vol. 166; p. 302.
Wohl, Maurice J. (See Hertzberg and Wohl.)
Wohl, Maurice J. (See Hertzberg, Low, and Wohl.)
Wohl, Maurice J., *et al.*, trustees. (See Betts, Lewis F., assignor.)
Wohl, Maurice J., *et al.*, trustees. (See Hertzberg, Harry, assignor.)
Wohl, Maurice J., *et al.*, trustees. (See Hertzberg and Wohl, assignors.)
Wohl, Maurice J., New York, and A. A. Low, Horseshoe, N. Y.; said Wohl assignor to said Low. Fuel-heater. No. 1,005,395; Oct. 10; Sp. p. 1794; Gaz. vol. 171; p. 320.
Wohlauer, Alfred A., New York, N. Y. Electric-lighting apparatus. No. 985,486; Feb. 28; Sp. p. 4858; Gaz. vol. 163; p. 862.
Wohldt, Sigfrid, Derry, Pa. Automobile cranking device. No. 987,528; Mar. 21; Sp. p. 3714; Gaz. vol. 164; p. 663.
Woillard, Eugene P., Los Angeles, Cal. Ozone-generator. No. 994,294; June 6; Sp. p. 391; Gaz. vol. 167; p. 67.
Woitynek, John F., La Salle, Ill. Dirigible headlight for cars. No. 991,682; May 9; Sp. p. 1859; Gaz. vol. 166; p. 336.
Wojcik, Michael. (See Domanowski and Wojcik.)
Wojcik, Michael. (See Krzewinski and Wojcik.)
Wolcot Company, Limited. (See Hampson, John, assignor.)
Wolcott, Alven E., Lowell, Wash. Air-cooled explosion-engine. No. 1,004,836; Oct. 3; Sp. p. 629; Gaz. vol. 171; p. 102.
Wolcott, Charles A. (See Farley and McDonald, assignors.)
Wolcott, Robeson B., East Cleveland, Ohio. Electric connection-plug. No. 1,008,879; Nov. 14; Sp. p. 2792; Gaz. vol. 172; p. 470.
Wold, Edward A., Bonners Ferry, Idaho. Bag-holder. No. 999,077; July 25; Sp. p. 5438; Gaz. vol. 168; p. 967.
Wold, Olaus C., Chicago, Ill. Fountain-pen. No. 1,009,612; Nov. 21; Sp. p. 4407; Gaz. vol. 172; p. 759.
Wolever, Franklin H., assignor, by mesne assignments, to R. Feist, Chicago, Ill. Pneumatic-despatch-tube system. No. 983,793; Feb. 7; Sp. p. 1145; Gaz. vol. 163; p. 183.
Wolever, Franklin H., assignor of one-fourth to R. Feist, one-fourth to M. E. Wolever, and one-half to G. F. Berger, Chicago, Ill. Pneumatic-despatch-tube system. No. 1,008,627; Nov. 14; Sp. p. 2261; Gaz. vol. 172; p. 385.
Wolever, Mary E., *et al.* (See Wolever, Franklin H., assignor.)
Wolf, Charles B., Flemington, and E. B. Smith, Clarksburg, W. Va. Tallying device. No. 999,355; Aug. 1; Sp. p. 323; Gaz. vol. 169; p. 57.
Wolf, Charles K., near Xenia, Ohio. Adjustable hinge. No. 987,207; Mar. 21; Sp. p. 3066; Gaz. vol. 164; p. 555.
Wolf, Clarence, Philadelphia, Pa. Car. No. 998,222; July 18; Sp. p. 3515; Gaz. vol. 168; p. 632.
Wolf Company, The. (See Halstead, John W., assignor.)
Wolf, D. M. (See Virdin, Joseph D., assignor.)
Wolf, Elmer E., Springfield, and C. J. Spilman, assignors to The Electric Scenery Hoist Company, Sidney, Ohio. Compound reel. No. 989,097; Apr. 11; Sp. p. 1694; Gaz. vol. 165; p. 295.
Wolf, Elmer E., Springfield, and C. J. Spilman, assignors to The Electric Scenery Hoist Company, Sidney, Ohio. Compound reel. No. 989,098; Apr. 11; Sp. p. 1696; Gaz. vol. 165; p. 295.
Wolf, Franz, Bochum, Germany. Making ammonium sulfate and sulfite. No. 994,435; June 6; Sp. p. 693; Gaz. vol. 167; p. 119.
Wolf, Franz E., Nowawes, near Potsdam, Germany. Speed-measuring instrument. No. 1,008,510; Nov. 14; Sp. p. 1998; Gaz. vol. 172; p. 341.
Wolf, Henry M., Fremont, Ohio. Bundle-tying implement. No. 991,588; May 9; Sp. p. 1646; Gaz. vol. 166; p. 303.
Wolf, John H. (See Diestelmeier and Wolf.)
Wolf, Lesser. (See Hoffman, David S., assignor.)
Wolf, Linus, assignor to Schweizerische Flussiggas-Fabric L. Wolf A. G., Zurich, Switzerland. Method of and apparatus for making liquid gas. No. 1,000,655; Aug. 15; Sp. p. 3117; Gaz. vol. 169; p. 565.
Wolf, Robert, and J. B. Goetz, Hartford, Conn. Tapping-wrench. No. 1,012,783; Dec. 26; Sp. p. 5301; Gaz. vol. 173; p. 944.
Wolfe, Bert W., Brooklyn, N. Y. Lock. No. 1,006,816; Oct. 24; Sp. p. 4979; Gaz. vol. 171; p. 881.
Wolfe, George M., Sheridan, Wyo. Preventing honeycombing in steam-boiler furnaces. No. 993,135; May 23; Sp. p. 4948; Gaz. vol. 166; p. 896.
Wolfe, Grover C. and H. K., Cheney, Wash. Weeder and cultivator. No. 981,512; Jan. 10; Sp. p. 3025; Gaz. vol. 162; p. 493.
Wolfe, Henry K. (See Wolfe, Grover C. and H. K.)
Wolfe, James A., Jacksboro, Tex. Harrow. No. 1,002,621; Sept. 5; Sp. p. 991; Gaz. vol. 170; p. 147.
Wolfe, James T., Chicago, Ill. Windproof umbrella. No. 986,532; Mar. 14; Sp. p. 1647; Gaz. vol. 164; p. 293.
Wolfe, John, Cleveland, Ohio, assignor of one-half to U. S. Metal & Manufacturing Co., New York, N. Y. Rail-joint. No. 989,682; Apr. 18; Sp. p. 2983; Gaz. vol. 165; p. 525.
Wolfe, John, Cleveland, Ohio, assignor of one-half to U. S. Metal & Manufacturing Co., New York, N. Y. Automatic rail-joint. No. 989,683; Apr. 18; Sp. p. 2985; Gaz. vol. 165; p. 526.
Wolfe, John, assignor of one-half to T. J. McManus, Cleveland, Ohio, and one-half to U. S. Metal & Manufacturing Co., New York, N. Y. Rail-joint. No. 980,383; Jan. 3; Sp. p. 419; Gaz. vol. 162; p. 73.
Wolfe, John, assignor of one-half to T. J. McManus, Cleveland, Ohio, and one-half to U. S. Metal & Manufacturing Co., New York, N. Y. Rail-joint. No. 983,591; Feb. 7; Sp. p. 732; Gaz. vol. 163; p. 114.
Wolfe, John, assignor of one-half to T. J. McManus, Cleveland, Ohio, and one-half to U. S. Metal & Manufacturing Co., New York, N. Y. Anti-rail-creeping device. No. 991,924; May 9; Sp. p. 2337; Gaz. vol. 166; p. 415.
Wolfe, John G., New York, N. Y. Rail-anticreeping device. No. 982,337; Jan. 24; Sp. p. 4781; Gaz. vol. 162; p. 828.
Wolfe, John G., New York, N. Y. Guard-rail clamp. No. 988,056; Mar. 28; Sp. p. 4924; Gaz. vol. 164; p. 874.
Wolfe, John G., New York, N. Y. Lock-nut. No. 1,005,678; Oct. 10; Sp. p. 2442; Gaz. vol. 171; p. 419.
Wolfe, Walter C., Montrose, Colo. Folding umbrella. No. 987,208; Mar. 21; Sp. p. 3068; Gaz. vol. 164; p. 556.
Wolfe, Walter G., Wakefield, assignor to F. Van Raalte, Boston, Mass. Counter. No. 1,003,022; Sept. 12; Sp. p. 1857; Gaz. vol. 170; p. 322.
Wolfe, William, assignor to The American Heel Machine Company, Cincinnati, Ohio. Heel-building machine. No. 1,004,952; Oct. 3; Sp. p. 868; Gaz. vol. 171; p. 142.
Wolfe, William K., Charlotte, N. C. Engraver's block. No. 1,006,817; Oct. 24; Sp. p. 4980; Gaz. vol. 171; p. 882.

Alphabetical list of patentees—Continued.

Wolfenden, Frank, West Point, Miss. Cooker for oil-bearing meal and the like. No. 1,012,312; Dec. 19; Sp. p. 4299; Gaz. vol. 173; p. 737.
Wolff, August, New York, N. Y. Door and window. No. 983,794; Feb. 7; Sp. p. 1150; Gaz. vol. 163; p. 184.
Wolff, Berthold, Berlin, Germany. Elastic-fluid turbine. No. 987,336; Mar. 21; Sp. p. 3334; Gaz. vol. 164; p. 599.
Wolff, Gustave P., Bloomville, Ohio. Liquid-fuel stove or heater. No. 983,105; Jan. 31; Sp. p. 6431; Gaz. vol. 162; p. 1117.
Wolff, Harry A., Chaville, France. Automatic distributer for electricity. No. 989,465; Apr. 11; Sp. p. 2478; Gaz. vol. 165; p. 419.
Wolff, Herbert W., assignor to American Car and Foundry Company, St. Louis, Mo. Carline. No. 987,421; Mar. 21; Sp. p. 3512; Gaz. vol. 164; p. 628.
Wolff, Hugo. (See Just and Wolff.)
Wolff, Hugo, assignor to Badische Anilin & Soda Fabrik, Ludwigshafen-on-the-Rhine, Germany. Green anthracene dyes and making the same. No. 995,936; June 20; Sp. p. 4023; Gaz. vol. 167; p. 700.
Wolff, Moritz, Potsdam, Germany. Cloth-cutting machine. No. 997,170; July 4; Sp. p. 1213; Gaz. vol. 168; p. 196.
Wolff Truck Frame Company. (See Hart, Harry S., assignor.)
Wolff Truck Frame Company. (See Summa, Victor M., assignor.)
Wolff, Wallace B., and F. M. Schaefer, assignors to American Slicing Machine Company, Chicago, Ill. Sharpening device for slicing-machines. No. 986,617; Mar. 14; Sp. p. 1826; Gaz. vol. 164; p. 324.
Wolford, Curtis T. (See Irick and Wolford.)
Wolfrath, Edwin R., executor. (See Heissenberger, John.)
Wolgast, William. (See Cassity, Isaac N., assignor.)
Wolhaupter, Benjamin, assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 985,092; Feb. 21; Sp. p. 3917; Gaz. vol. 163; p. 692.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Reinforced angle-bar. No. 991,683; May 9; Sp. p. 1861; Gaz. vol. 166; p. 336.
Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Reinforced angle-bar for rail-joints. No. 1,010,474; Dec. 5; Sp. p. 155; Gaz. vol. 173; p. 28.
Wolhaupter, David P., Washington, D. C. Chain-guide for electrical pull-sockets. No. 989,220; Apr. 11; Sp. p. 1948; Gaz. vol. 165; p. 337.
Wolhaupter, David P., Washington, D. C. Chain-guide for electrical pull-sockets. No. 991,684; May 9; Sp. p. 1862; Gaz. vol. 166; p. 336.
Wolhaupter, David P., Washington, D. C. Electrical pull-socket. No. 1,001,330; Aug. 22; Sp. p. 4589; Gaz. vol. 169; p. 830.
Wolke, George, assignor of one-fourth to E. P. Kirby and one-fourth to W. K. McLaughlin, Jacksonville, Ill. Cooling device for engines. No. 981,733; Jan. 17; Sp. p. 3476; Gaz. vol. 162; p. 589.
Wolke, Herman, Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Mechanical movement. No. 999,937; Aug. 8; Sp. p. 1490; Gaz. vol. 169; p. 282.
Wolke, Herman, Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph-reproducer. No. 1,007,407; Oct. 31; Sp. p. 6273; Gaz. vol. 171; p. 1142.
Wolken, William F., Granville, Iowa. Combination end-gate and scoop-board. No. 998,144; July 18; Sp. p. 3352; Gaz. vol. 168; p. 604.
Wolkow, Isaac L., Louisville, Ky. Hair structure. No. 1,004,130; Sept. 26; Sp. p. 4316; Gaz. vol. 170; p. 768.
Woll, Peter, Jr., Philadelphia, Pa. Jacquard connection for lace-machines. No. 980,384; Jan. 3; Sp. p. 422; Gaz. vol. 162; p. 73.
Wollbrinck, William, assignor to Loose-Wiles Biscuit Company, St. Louis, Mo. Wafer-cutting machine. No. 1,012,230; Dec. 19; Sp. p. 4131; Gaz. vol. 173; p. 709.
Wolle, Hartley C., Johnstown, Pa. Rotary sintering-furnace. No. 1,005,396; Oct. 10; Sp. p. 1795; Gaz. vol. 171; p. 320.
Wolle, Hartley C., and J. V. Symons, Westmont borough, Pa. Blast-furnace apparatus. No. 992,838; May 23; Sp. p. 4296; Gaz. vol. 166; p. 792.
Wolle, Hartley C., and J. V. Symons, Westmont borough, Pa. Blast-stove apparatus. No. 992,839; May 23; Sp. p. 4301; Gaz. vol. 166; p. 792.
Wolle, Rudolf, Leipzig, Germany. Pole of reinforced concrete. No. 993,136; May 23; Sp. p. 4949; Gaz. vol. 166; p. 896.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Iris-diaphragm. No. 985,311; Feb. 28; Sp. p. 4451; Gaz. vol. 163; p. 801.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. No. 990,509; Apr. 25; Sp. p. 4836; Gaz. vol. 165; p. 844.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Iris-diaphragm. No. 993,215; May 23; Sp. p. 5109; Gaz. vol. 166; p. 920.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Iris-diaphragm. No. 993,431; May 30; Sp. p. 5581; Gaz. vol. 166; p. 1024.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. No. 997,530; July 11; Sp. p. 1931; Gaz. vol. 168; p. 346.
Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Fishing-reel. No. 1,009,818; Nov. 28; Sp. p. 4839; Gaz. vol. 172; p. 875.
Wollensak Optical Company. (See Wollensak, Andrew, assignor.)
Wollheim, Heinrich, Berlin, Germany. Machine for folding paper. No. 980,385; Jan. 3; Sp. p. 423; Gaz. vol. 162; p. 73.
Wolpert, Rubin. (See Simon, Myer, assignor.)
Wolski, Martin, *et al.* (See Willma, Theodor, assignor.)
Woltek, Mathias. (See Lehmann and Woltek.)
Wolter, Carl, Rixdorf, near Berlin, Germany. Reversible transfer mechanism for calculating-machines. No. 998,145; July 18; Sp. p. 3355; Gaz. vol. 168; p. 605.
Wolter, Carl, Rixdorf, near Berlin, Germany. Transfer mechanism for the forward and backward counting device of calculating-machines. No. 1,005,397; Oct. 10; Sp. p. 1798; Gaz. vol. 171; p. 321.
Woltereck, Herman C., assignor to P. Mason, London, England. Producing ammonia from peat. No. 994,048; May 30; Sp. p. 6881; Gaz. vol. 166; p. 1236.
Wolvin, John F., St. Clair, Mich. Panel-raising machine. No. 984,407; Feb. 14; Sp. p. 2484; Gaz. vol. 163; p. 421.
Wolvin, John F., St. Clair, Mich. Chip-breaker. No. 984,408; Feb. 14; Sp. p. 2486; Gaz. vol. 163; p. 421.
Womack, Alexander, Emmett, Idaho. Lock. No. 999,938; Aug. 8; Sp. p. 1492; Gaz. vol. 169; p. 283.
Womack, Thomas A., Baton Rouge, La. Paving-block. No. 1,007,621; Oct. 31; Sp. p. 6749; Gaz. vol. 171; p. 1214.
Wonsmos, Bertel R. (See Mendenhall and Wonsmos.)
Wood, Albert A., Atlanta, Ga. Grinding-machine. No. 982,166; Jan. 17; Sp. p. 4405; Gaz. vol. 162; p. 738.
Wood, Albert B., New Orleans, La., assignor of one-half to H. C. Erwin, Jr., Atlanta, Ga. Clamping device. No. 982,773; Jan. 24; Sp. p. 5692; Gaz. vol. 162; p. 976.
Wood, Albert C., Philadelphia, Pa., assignor to General Air Products Company, Dover, Del. Apparatus for liquefying gases. No. 984,875; Feb. 21; Sp. p. 3499; Gaz. vol. 163; p. 618.
Wood, Alfred F. (See Meloney and Wood.)
Wood, Alfred T., Defiance, Ohio. Grease-gun. No. 999,939; Aug. 8; Sp. p. 1494; Gaz. vol. 169; p. 283.
Wood, Andrew J., Lindale, Tex. Wagon-seat. No. 986,885; Mar. 14; Sp. p. 2405; Gaz. vol. 164; p. 416.
Wood, Asa P., Hamburg, N. Y. Bicycle attachment. No. 1,010,836; Dec. 5; Sp. p. 974; Gaz. vol. 173; p. 152.
Wood, Charles L., deceased, Oshkosh, Wis.; C. L. Wood, Jr., administrator, assignor to Paine Lumber Company Limited. Automatic centering device for sawing logs. No. 995,833; June 20; Sp. p. 3805; Gaz. vol. 167; p. 663.
Wood, Charles L., Jr., administrator. (See Wood, Charles L.)
Wood, Edward C., Somerville, Mass., assignor to Manton-Gaulin Manufacturing Company. Emulsifier. No. 1,003,848; Sept. 19; Sp. p. 3598; Gaz. vol. 170; p. 640.
Wood, Edward C., Somerville, and H. G. Marden, Braintree, Mass., assignors to Submarine Signal Company, Waterville, Me. System for operating pneumatic bells. No. 995,834; June 20; Sp. p. 3806; Gaz. vol. 167; p. 663.
Wood, Frank B., New York, N. Y. Electric signal system. No. 983,191; Jan. 31; Sp. p. 6574; Gaz. vol. 162; p. 1144.
Wood, Franz J., Des Moines, Iowa. Governor for band-cutters and feeders. No. 985,962; Mar. 7; Sp. p. 437; Gaz. vol. 164; p. 70.
Wood, Frederick B. (See Ringland and Wood.)
Wood, Frederick W., assignor to Linotype and Machinery Limited, London, England. Press for embossed printing. No. 981,346; Jan. 10; Sp. p. 2688; Gaz. vol. 162; p. 436.
Wood, George, Newark, N. J. Duplicator. No. 998,663; July 25; Sp. p. 4492; Gaz. vol. 168; p. 820.
Wood, George S., Greenlawn, N. Y. Puzzle. No. 999,940; Aug. 8; Sp. p. 1496; Gaz. vol. 169; p. 283.
Wood, George W., Camden, N. J. Non-refillable bottle. No. 985,487; Feb. 28; Sp. p. 4859; Gaz. vol. 163; p. 862.
Wood, George W., Syracuse, N. Y. Land-anchor. No. 994,356; June 6; Sp. p. 525; Gaz. vol. 167; p. 90.
Wood & Guest. (See Lane, George, assignor.)
Wood, Guilford S. (See Preston, George E., assignor.)
Wood, Guilford S. (See Relp, Edward J., assignor.)
Wood, Guilford S., Chicago, Ill. Metal protector for hose-couplings. No. 984,876; Feb. 21; Sp. p. 3501; Gaz. vol. 163; p. 619.
Wood, Harry W., Colfax, Iowa. Fountain-pen. No. 988,237; Mar. 28; Sp. p. 5262; Gaz. vol. 164; p. 933.
Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Stereotype-printing-plate-casting machine. No. 980,468; Jan. 3; Sp. p. 623; Gaz. vol. 162; p. 103.
Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Stereotype-plate casting and finishing mechanism. No. 985,874; Mar. 7; Sp. p. 238; Gaz. vol. 164; p. 39.
Wood, Henry A. W., assignor to Campbell Printing Press & Manufacturing Company, New York, N. Y. Stereotype-printing-plate-casting apparatus. No. 985,875; Mar. 7; Sp. p. 243; Gaz. vol. 164; p. 40.

Alphabetical list of patentees—Continued.

Wood, Henry A. W., assignor, by mesne assignments, to Wood & Nathan Company, New York, N. Y. Intaglio and relief printing device. No. 1,000,656; Aug. 15; Sp. p. 3120; Gaz. vol. 169; p. 565.
Wood, Henry A. W., New York, N. Y., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Machine for making stereotype printing-plates. No. 1,009,206; Nov. 21; Sp. p. 3500; Gaz. vol. 172; p. 617.
Wood, Henry A. W., New York, N. Y., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Stereotype-printing-plate-casting machine. No. 1,009,207; Nov. 21; Sp. p. 3517; Gaz. vol. 172; p. 618.
Wood, Henry A. W., New York, N. Y., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Stereotype-printing-plate-casting mechanism. No. 1,009,208; Nov. 21; Sp. p. 3522; Gaz. vol. 172; p. 618.
Wood, Henry A. W., New York, N. Y., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Stereotype-printing-plate-finishing mechanism. No. 1,009,209; Nov. 21; Sp. p. 3526; Gaz. vol. 172; p. 618.
Wood, Henry A. W., New York, N. Y., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Stereotype-printing-plate-casting apparatus. No. 1,009,210; Nov. 21; Sp. p. 3531; Gaz. vol. 172; p. 619.
Wood, Henry A. W., New York, N. Y., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Stereotype-printing-plate-casting apparatus. No. 1,009,211; Nov. 21; Sp. p. 3537; Gaz. vol. 172; p. 619.
Wood, Henry A. W., New York, N. Y., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Stereotype-printing-plate-finishing mechanism. No. 1,009,271; Nov. 21; Sp. p. 3678; Gaz. vol. 172; p. 641.
Wood, Henry A. W., New York, N. Y., assignor, by mesne assignments, to Autoplate Company of America, Jersey City, N. J. Stereotype-printing-plate-casting apparatus. No. 1,009,272; Nov. 21; Sp. p. 3682; Gaz. vol. 172; p. 642.
Wood, Henry A. W., New York, N. Y., assignor, by mesne assignments, to The Autoplate Company of America, Jersey City, N. J. Stereotype-printing-plate-casting apparatus. No. 1,009,367; Nov. 21; Sp. p. 3895; Gaz. vol. 172; p. 676.
Wood, Henry E., Denver, Colo. Process of and apparatus for concentrating metalliferous ores. No. 984,633; Feb. 21; Sp. p. 3010; Gaz. vol. 163; p. 533.
Wood, Henry E., Denver, Colo. Ore-concentrator. No. 987,209; Mar. 21; Sp. p. 3070; Gaz. vol. 164; p. 556.
Wood, Hiram C., assignor to The Whitin Machine Works, Whitinsville, Mass. Clearer-cover. No. 1,002,478; Sept. 5; Sp. p. 678; Gaz. vol. 170; p. 98.
Wood, Hiram D., Jr., *et al.* (See Wadsworth, Frank M., assignor.)
Wood, Hiram S., Oskaloosa, Iowa. Combined scraper and drag. No. 984,634; Feb. 21; Sp. p. 3014; Gaz. vol. 163; p. 534.
Wood, Howard I., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. No. 984,119; Feb. 14; Sp. p. 1880; Gaz. vol. 163; p. 323.
Wood, Howard I., Schenectady, N. Y., assignor to General Electric Company. Vapor electric lamp. No 1,006,333; Oct. 17; Sp. p. 3894; Gaz. vol. 171; p. 681.
Wood, Howard I., Schenectady, N. Y., assignor to General Electric Company. Vapor electric lamp. No. 1,006,421; Oct. 17; Sp. p. 4080; Gaz. vol. 171; p. 711.
Wood, James, Noblesville, Ind. Basin-wrench. No. 986,112; Mar. 7; Sp. p. 752; Gaz. vol. 164; p. 121.
Wood, James N., Richmond, Va., assignor, by mesne assignments, to International Machine Corporation. Shoe-polishing machine. No. 987,936; Mar. 28; Sp. p. 4648; Gaz. vol. 164; p. 833.
Wood, Jasper W., Needles, Cal. Railway-tie spacer. No. 1,010,208; Nov. 28; Sp. p. 5625; Gaz. vol. 172; p. 1006.
Wood, Joe R., Cincinnati, Ohio. Rope-clip. No. 1,002,893; Sept. 12; Sp. p. 1606; Gaz. vol. 170; p. 278.
Wood, John E., Nottingham, England. Water heater and purifier. No. 986,886; Mar. 14; Sp. p. 2406; Gaz. vol. 164; p. 416.
Wood, Joseph, assignor, by mesne assignments, of one-half to M. A. Wood, Everett, Mass. Handsaw. No. 999,617; Aug. 1; Sp. p. 827; Gaz. vol. 169; p. 144.
Wood, Leonard C., Denver, Colo. Excavating-machine. No. 987,660; Mar. 21; Sp. p. 3981; Gaz. vol. 164; p. 710.
Wood, Leonard C., Alden, Iowa. Excavating-machine. No. 1,004,549; Sept. 26; Sp. p. 5168; Gaz. vol. 170; p. 909.
Wood, Lionel H. (See Herr, Wood, and Heaton.)
Wood, Margaret A. (See Wood, Joseph, assignor.)
Wood & Nathan Company. (See Wood, Henry A. W., assignor.)
Wood, O. Ellsworth. (See Jackson, Richard, assignor.)
Wood, Robert E. (See Siragusa and Wood.)
Wood, Robert N., Corpus Christi, Tex. Insect-trap. No. 983,468; Feb. 7; Sp. p. 456; Gaz. vol. 163; p. 72.
Wood, Robert W., Ashtabula, Ohio. Valve. No. 1,001,111; Aug. 22; Sp. p. 4146; Gaz. vol. 169; p. 759.
Wood & Sons, J. R. (See Henrich, Henry, assignor.)
Wood, Stanley M., Harrison, Ohio. Reversing-gearing. No. 996,189; June 27; Sp. p. 4603; Gaz. vol. 167; p. 821.
Wood, Thomas C., Washington, D. C. Game device. No. 983,592; Feb. 7; Sp. p. 735; Gaz. vol. 163; p. 115.
Wood, Warren, Paterson, N. J. Rock-drill. No. 997,591; July 11; Sp. p. 2057; Gaz. vol. 168; p. 367.
Wood, Warren D. C., Haxtum, Colo. Non-refillable bottle. No. 984,251; Feb. 14; Sp. p. 2175; Gaz. vol. 163; p. 369.
Wood, Wilfred R., London, England, assignor to The American Stoker Company, Erie, Pa. Mechanical stoker. No. 987,661; Mar. 21; Sp. p. 3987; Gaz. vol. 164; p. 710.
Wood, Will B., and B. L. Warner, St. Louis, Mo. Cooler for soda-fountains. No. 999,078; July 25; Sp. p. 5439; Gaz. vol. 168; p. 967.
Wood, William H., Maylands, near Perth, Western Australia, Australia. Antinicotin tobacco-pipe. No. 984,335; Feb. 14; Sp. p. 2349; Gaz. vol. 163; p. 397.
Wood, William P., and F. Dupuis, Pawtucket, R. I. Atomizer or humidifier. No. 1,005,094; Oct. 3; Sp. p. 1118; Gaz. vol. 171; p. 189.
Wood, William T., and A. D. Knox, Nashville, Tenn. Lawn-mower. No. 1,002,550; Sept. 5; Sp. p. 822; Gaz. vol. 170; p. 121.
Wood, William W., Raymond, Wash. Folding berry-box. No. 982,919; Jan. 31; Sp. p. 6027; Gaz. vol. 162; p. 1055.
Wood, Willis I., Glenhaven, Wis. Wind-shield and prow for air-craft. No. 1,005,759; Oct. 10; Sp. p. 2599; Gaz. vol. 171; p. 448.
Woodall, Robert B., Malvern, Ark. Street-railway switch. No. 991,403; May 2; Sp. p. 1227; Gaz. vol. 166; p. 205.
Woodard, George F., Kalamazoo, assignor, by mesne assignments, to Business Men's Paper Press Company, Wayland, Mich. Baling-press. No. 1,012,042; Dec. 19; Sp. p. 3705; Gaz. vol. 173; p. 645.
Woodbridge, Jonathan E., San Francisco, Cal., assignor to General Electric Company. Circuit-controlling device. No. 1,011,546; Dec. 12; Sp. p. 2579; Gaz. vol. 173; p. 436.
Woodbridge, Joseph L., Philadelphia, Pa. System of electrical distribution. No. 984,459; Feb. 14; Sp. p. 2592; Gaz. vol. 163; p. 438.
Woodbridge, Joseph L., Philadelphia, Pa. System of electrical distribution. No. 999,690; Aug. 1; Sp. p. 968; Gaz. vol. 169; p. 169.
Woodbury, Earl S., and G. H. McKelvey, Augusta, Mont. Hub-attaching device. No. 996,190; June 27; Sp. p. 4605; Gaz. vol. 167; p. 821.
Woodbury, Jesse G. (See Depew, Calvin, assignor.)
Woodbury, Joan H., Oakland, Cal. Sweeper. No. 984,336; Feb. 14; Sp. p. 2349; Gaz. vol. 163; p. 398.
Woodbury, Roy J., Atlanta, assignor to C. H. and M. A. Temple, Fulton county, Ga. Machine for holding and dispensing soda-water straws. No. 987,276; Mar. 21; Sp. p. 3216; Gaz. vol. 164; p. 580.
Woodcock, Louis H., and C. Borene, Spokane, Wash. Angle-saw. No. 983,338; Feb. 7; Sp. p. 171; Gaz. vol. 163; p. 30.
Woodcock, Wiley G., *et al.* (See Kneeland, Matt, assignor.)
Wooddell, James H., Indianapolis, Ind. Folding vehicle-top. No. 986,533; Mar. 14; Sp. p. 1648; Gaz. vol. 164; p. 293.
Wooden, Earle M., Yonkers, N. Y. Moving-picture machine. No. 1,004,330; Sept. 26; Sp. p. 4718; Gaz. vol. 170; p. 834.
Woodfield, Otis B., O. M. Morris, and J. W. Gosling, Spring Lake Beach, N. J. Automatic swivel search-light bracket. No. 997,352; July 11; Sp. p. 1594; Gaz. vol. 168; p. 288.
Woodgates, Frederick, and T. W. Jourdan, Tiverton, England. Repairing-patch and repairing material for pneumatic tires. No. 995,106; June 13; Sp. p. 2212; Gaz. vol. 167; p. 385.
Woodhead, Frank S., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Tension mechanism for sewing-machines. No. 995,312; June 13; Sp. p. 2604; Gaz. vol. 167; p. 451.
Woodhouse, William E., Winnipeg, Manitoba, and T. Bate, Calgary, Alberta, Canada. Switch-lock. No. 987,784; Mar. 28; Sp. p. 4275; Gaz. vol. 164; p. 780.
Woodier, William D., Paterson, N. J. Brake for baby-carriages and the like. No. 984,727; Feb. 21; Sp. p. 3213; Gaz. vol. 163; p. 568.
Woodington, James W., Folcroft, Pa. Flying-machine. No. 994,966; June 13; Sp. p. 1925; Gaz. vol. 167; p. 338.
Woodison, Edward, J., *et al.* (See Sullivan and Potter, assignors.)
Woodland, Frank O., Worcester, Mass. Labeling-machine. No. 998,664; July 25; Sp. p. 4495; Gaz. vol. 168; p. 820.
Woodland, Frank O., Worcester, Mass. Package-holding rest for labeling-machines. No. 1,010,999; Dec. 5; Sp. p. 1317; Gaz. vol. 173; p. 209.
Woodland, William C., Warren, Ohio. Vibrator for sieves. No. 1,012,956; Dec. 26; Sp. p. 5715; Gaz. vol. 173; p. 1002.
Woodley, George N., *et al.* (See Hachmann, Frederick, assignor.)

Alphabetical list of patentees—Continued.

Woodmansee, Fay. (See Sessions, Edson O., assignor.)
Woodruff, Alonzo, assignor to Superb Stamp Pad Company, Auburn, N. Y. Inking-pad. No. 1,005,679; Oct. 10; Sp. p. 2444; Gaz. vol. 171; p. 420.
Woodruff, Frank W. (See Betz, Charles L., assignor.)
Woodruff, H. L., *et al.* (See Morton, Frank M., assignor.)
Woodruff, Oliver D., Southington, Conn. Dough mixer and kneader. No. 984,728; Feb. 21; Sp. p. 3215; Gaz. vol. 163; p. 568.
Woodruff, Willis B., Cadiz, Ky. Churn. No. 1,007,169; Oct. 31; Sp. p. 5778; Gaz. vol. 171; p. 1057.
Woodrum, Earl, Glencove, Wash. Display device. No. 987,028; Mar. 14; Sp. p. 2660; Gaz. vol. 164; p. 460.
Woodrum, Earl, Glencove, Wash. Windmill. No. 999,423; Aug. 1; Sp. p. 454; Gaz. vol. 169; p. 80.
Woods, Clifford A., Plankinton, S. D. Automatic gas cut-off. No. 983,967; Feb. 14; Sp. p. 1547; Gaz. vol. 163; p. 272.
Woods, Clifford A., Plankinton, S. D. Automobile power-motor. No. 1,003,567; Sept. 19; Sp. p. 3024; Gaz. vol. 170; p. 545.
Woods, Columbus, and W. H. Sayles, Peoria, Ill. Electric switch. No. 986,958; Mar. 14; Sp. p. 2537; Gaz. vol. 164; p. 439.
Woods, D. B., *et al.* (See Tatum, Franklin M., assignor.)
Woods, Daniel G., New Orleans, La. Ditching-machine. No. 1,008,765; Nov. 14; Sp. p. 2572; Gaz. vol. 172; p. 432.
Woods, Edwin S. (See Davidson, Arthur C., assignor.)
Woods, Edwin S. (See Weigel, Arnold A., assignor.)
Woods, Edwin S., Chicago, Ill. Antifriction-bearing. No. 981,906; Jan. 17; Sp. p. 3869; Gaz. vol. 162; p. 651.
Woods, Edwin S., Chicago, Ill. Antifriction center-bearing. No. 995,835; June 20; Sp. p. 3809; Gaz. vol. 167; p. 664.
Woods, Edwin S., Chicago, Ill., and J. C. W. Greth, assignors to Wm. B. Scaife & Sons Company, Pittsburg, Pa. Water-purifying apparatus. No. 984,635; Feb. 21; Sp. p. 3015; Gaz. vol. 163; p. 534.
Woods, Elmer E., assignor of one-half to C. A. Hare, Bakersfield, Cal. Funnel. No. 985,312; Feb. 28; Sp. p. 4453; Gaz. vol. 163; p. 801.
Woods, Fred L., and M. Boyd, assignors to Hunt Engineering Company, Iola, Kans. Burning Portland cement. No. 985,313; Feb. 28; Sp. p. 4454; Gaz. vol. 163; p. 801.
Woods, Fred M. (See Gambill and Woods.)
Woods, George E., New York, N. Y. Gas-condenser. No. 1,000,766; Aug. 15; Sp. p. 3341; Gaz. vol. 169; p. 603.
Woods, James L., Cedar Rapids, Iowa. Barber's comb. No. 1,003,568; Sept. 19; Sp. p. 3026; Gaz. vol. 170; p. 546.
Woods, Leonard G., Pittsburg, Pa. Converter. No. 986,534; Mar. 14; Sp. p. 1650; Gaz. vol. 164; p. 293.
Woods, Leonard G., Pittsburg, Pa. Casting steel boxes. No. 991,258; May 2; Sp. p. 916; Gaz. vol. 166; p. 155.
Woods, Phineas S., Smithville, Mo. Aeroplane. No. 989,681; Apr. 18; Sp. p. 2980; Gaz. vol. 165; p. 525.
Woods, R. H. (See Soule, Arial S., assignor.)
Woods, William A., Milwaukee, Wis. Safety signal appliance. No. 983,415; Feb. 7; Sp. p. 331; Gaz. vol. 163; p. 56.
Woods, William E., Griffin, Ind. Vehicle-brake. No. 1,003,569; Sept. 19; Sp. p. 3027; Gaz. vol. 170; p. 546.
Woodson, Rodney R., Erie, Colo. Coal-mining pick. No. 1,000,475; Aug. 15; Sp. p. 2694; Gaz. vol. 169; p. 500.
Woodstock Safety Chuck Company. (See Procunier, William L., assignor.)
Woodward, Alva W., Fort Wayne, Ind. By-pass valve. No. 999,536; Aug. 1; Sp. p. 678; Gaz. vol. 169; p. 116.
Woodward, Horace A., West Orange, N. J. Constant-level apparatus. No. 1,010,562; Dec. 5; Sp. p. 353; Gaz. vol. 173; p. 56.
Woodward, Irving C., Chicago, Ill. Nut-lock. No. 1,000,657; Aug. 15; Sp. p. 3122; Gaz. vol. 169; p. 565.
Woodward, Milton M. (See Erickson and Woodward.)
Woodward, Oscar, Montclair, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 985,093; Feb. 21; Sp. p. 3919; Gaz. vol. 163; p. 692.
Woodward, Oscar, Montclair, assignor to Union Typewriter Company, Jersey City, N. J. Type-writing machine. No. 1,000,476; Aug. 15; Sp. p. 2695; Gaz. vol. 169; p. 500.
Woodward, Roy J., Fresno, Cal. Wagon or truck bolster. No. 990,793; Apr. 25; Sp. p. 5455; Gaz. vol. 165; p. 939.
Woodward & Wanger. (See Kerst, John M., assignor.)
Woodward, William M. (See Chapman, Samuel E., assignor.)
Woodward, William R., and F. E. Crompton, assignors to The Signature Company, New York, N. Y. Machine for simultaneously writing a plurality of signatures or inscriptions. No. 1,008,099; Nov. 7; Sp. p. 970; Gaz. vol. 172; p. 156.
Woodworth, Charles B., Niagara Falls, N. Y. Antislipping and antiskidding attachment for tires. No. 1,009,368; Nov. 21; Sp. p. 3898; Gaz. vol. 172; p. 677.
Woodworth, Earl, M. J. Outwater, and E. Hoff, Leonidas, Mich. Mail-bag holder. No. 996,547; June 20; Sp. p. 3395; Gaz. vol. 167; p. 598.
Woodworth, John B., assignor to The Syracuse Faucet & Valve Company, Syracuse, N. Y. Valve. No. 1,010,837; Dec. 5; Sp. p. 975; Gaz. vol. 173; p. 152.
Woodworth, John C. F., assignor to I. J. Lipsohn, Phoenix, Ariz. Crude-oil burner. No. 995,511; June 20; Sp p. 3084; Gaz. vol. 167; p. 549.
Woodworth, Lyman, San Francisco, Cal. Gas or combustion engine. No. 991,404; May 2; Sp. p. 1229; Gaz. vol. 166; p. 205.
Woodworth, Lyman, San Francisco, Cal. Gas or oil engine. No. 991,405; May 2; Sp. p. 1231; Gaz. vol. 166; p. 205.
Woodworth, Lyman, San Francisco, Cal. Internal-combustion engine. No. 991,406; May 2; Sp. p. 1233; Gaz. vol. 166; p. 206.
Woodworth, Olin F. (See Willis and Woodworth.)
Woodworth, Philo R. (See Spross and Woodworth.)
Woodworth, Robert B., Pittsburg, Pa. Metallic tunnel-lining. No. 984,337; Feb. 14; Sp. p. 2351; Gaz. vol. 163; p. 398.
Woodyard, Henry C. (See Wright, William A., assignor.)
Wooldridge, Orville E., Greenville, Ill. Driving means for magneto-generators. No. 983,853; Feb. 7; Sp. p. 1281; Gaz. vol. 163; p. 205.
Woolery, Horace E., Fairmont, Minn. Internal-combustion engine. No. 990,326; Apr. 25; Sp. p. 4391; Gaz. vol. 165; p. 777.
Woolf, Toliver P., Moeling, La. Saw-jointer. No. 1,009,613; Nov. 21; Sp. p. 4410; Gaz. vol. 172; p. 760.
Woollett, Ernest, assignor of one-half to F. Whitfield, Chicago, Ill. Oven or the like. No. 1,011,698; Dec. 12; Sp. p. 2932; Gaz. vol. 173; p. 490.
Woolslair, John K., and G. A. Arndt, Lee county, Fla. Fruit washing and polishing machine. No. 988,529; Apr. 4; Sp. p. 509; Gaz. vol. 165; p. 81.
Woolums, William H., Chicago, Ill. Coin-receptacle. No. 999,288; Aug. 1; Sp. p. 180; Gaz. vol. 169; p. 34.
Wooster, Philip L., Yonkers, N. Y., assignor of one-fourth to Duryea Manufacturing Company and three-eighths to B. L. Duryea, Jersey City, N. J. Portable conveyer. No. 1,005,398; Oct. 10; Sp. p. 1800; Gaz. vol. 171; p. 321.
Wootten, Charles T., Philadelphia, Pa., assignor to Manufacturing Company of America. Lid-clamp. No. 997,644; July 11; Sp. p. 2188; Gaz. vol. 168; p. 387.
Wootten, Charles T., Philadelphia, Pa., assignor to Manufacturing Company of America. Handle-clamp. No. 1,003,225; Sept. 12; Sp. p. 2296; Gaz. vol. 170; p. 394.
Wootten, Charles T., Philadelphia, Pa., assignor to Manufacturing Company of America. Metal-lid fastening. No. 1,003,226; Sept. 12; Sp. p. 2298; Gaz. vol. 170; p. 394.
Worcester Fire Extinguisher Company. (See Carlson, Hjalmar G., assignor.)
Worcester Polytechnic Institute. (See Bird and Rawson, assignors.)
Worcester Pressed Steel Pulley Company. (See Langlands, Daniel G., assignor.)
Worch, Frederick W. (See Codman and Worch.)
Worden, Edgar M., Ladysmith, Wis. Tool for operating upon cotter-pins. No. 998,939; July 25; Sp. p. 5145; Gaz. vol. 168; p. 919.
Worden, Euclid P. (See Prescott and Worden.)
Worden, Leonard B., Penn Yan, N. Y. Leveling and plumbing instrument. No. 1,006,818; Oct. 24; Sp. p. 4982; Gaz. vol. 171; p. 882.
Workman, Alexander H., Omaha, Nebr., assignor, by mesne assignments, to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 980,729; Jan. 3; Sp. p. 1190; Gaz. vol. 162; p. 190.
Workman, James A., Sr., Portageville, Mo. Mechanical movement. No. 994,627; June 6; Sp. p. 1088; Gaz. vol. 167; p. 181.
Workman, Joshua, Fort Gay, W. Va., assignor of one-half to S. D. Taliofarro, Salem, Va. Flue-sheet. No. 1,005,760; Oct. 10; Sp. p. 2600; Gaz. vol. 171; p. 448.
Workman Mfg. Co. (See Bryant, Clyde J., assignor.)
World Manufacturing and Specialty Company, The. (See Sperberg, Edward H., assignor.)
Worley, Frederick W., Mount Vernon, N. Y. Tie and rail-fastener. No. 994,551; June 6; Sp. p. 934; Gaz. vol. 167; p. 155.
Worley, J. W. (See Suck, Charles M., assignor.)
Worns, Edwin C., Rutherford, N. J. Liquid-trap. No. 981,347; Jan. 10; Sp. p. 2691; Gaz. vol. 162; p. 437.
Worsham, De Witt C., and W. Vandevender, Terre Haute, Ind. Feed-trough. No. 993,630; May 30; Sp. p. 6013; Gaz. vol. 166; p. 1093.
Worst, Warren H., and E. E. Kilmer, New London, Ohio. Pulverizer-roller. No. 984,989; Feb. 21; Sp. p. 3709; Gaz. vol. 163; p. 656.
Worst, Warren H., and E. E. Kilmer, New London, Ohio. Window construction. No. 984,990; Feb. 21; Sp. p. 3711; Gaz. vol. 163; p. 656.
Worth, James M., Chicago, Ill. Machine for treating fibrous material. No. 1,010,006; Nov. 28; Sp. p. 5221; Gaz. vol. 172; p. 937.
Worth, John S., *et al.* (See Harrison, William F., assignor.)
Worth, John S., *et al.* (See Worth and Fairweather, assignor.)

Alphabetical list of patentees—Continued.

Worth, John S., assignor of one-half to W. P. Worth, Coatesville, Pa. Machine for shaping metal plates. No. 1,003,849; Sept. 19; Sp. p. 3601; Gaz. vol. 170; p. 641.
Worth, John S., and W. F. Harrison, assignors to said Worth and W. P. Worth, Coatesville, Pa. Mill for cold-rolling lapped tubes. No. 991,407; May 2; Sp. p. 1234; Gaz. vol. 166; p. 206.
Worth, John S., and W. F. Harrison, assignors to J. S. and W. P. Worth, Coatesville, Pa. Tube and bar trough. No. 1,007,510; Oct. 31; Sp. p. 6507; Gaz. vol. 171; p. 1176.
Worth, John S., and C. B. Fairweather, assignors to J. S. and W. P. Worth, Coatesville, Pa. Dishing plates. No. 1,011,000; Dec. 5; Sp. p. 1320; Gaz. vol. 173; p. 210.
Worth, William E., Wilmington, N. C., assignor to United States Cotton Seed Oil Company, Portland, Me. Cotton-seed delinter. No. 983,527; Feb. 7; Sp. p. 573; Gaz. vol. 163; p. 92.
Worth, William P., *et al.* (See Harrison, William F., assignor.)
Worth, William P. (See Worth, John S., assignor.)
Worth, William P., *et al.* (See Worth and Fairweather, assignors.)
Worth, William P. (See Worth and Harrison, assignors.)
Wortham, James G., Tullahoma, Tenn. Miter-box. No. 1,003,310; Sept. 12; Sp. p. 2467; Gaz. vol. 170; p. 425.
Worthen, Burt L., Tucson, Ariz. Apparatus for burning hydrocarbon fuels. No. 997,728; July 11; Sp. p. 2370; Gaz. vol. 168; p. 416.
Worthington, Amasa, New York, N. Y. Water-tube boiler. No. 983,339; Feb. 7; Sp. p. 172; Gaz. vol. 163; p. 30.
Worthington, Amasa, New York, N. Y. Steam-boiler. No. 992,467; May 16; Sp. p. 3521; Gaz. vol. 166; p. 632.
Worthington, Benjamin, Mozart, Pa. Coin-controlled mechanism for vending-machines. No. 1,010,838; Dec. 5; Sp. p. 977; Gaz. vol. 173; p. 153.
Worthington, Bruce, Winchester, Va., assignor to Worthington Cotton Harvester Company. Cotton-picker. No. 1,012,497; Dec. 19; Sp. p. 4661; Gaz. vol. 173; p. 800.
Worthington, Charles C., Dunnfield, N. J. Steam-generator. No. 995,751; June 20; Sp. p. 3619; Gaz. vol. 167; p. 634.
Worthington Cotton Harvester Company. (See Worthington, Bruce, assignor.)
Worthington, Thomas K., Lancaster, Pa. Door-bolt. No. 1,000,222; Aug. 8; Sp. p. 2138; Gaz. vol. 169; p. 380.
Wortley, Clark C., Chicago, Ill. Sign. No. 983,593; Feb. 7; Sp. p. 736; Gaz. vol. 163; p. 115.
Worzen, Anton A., South Brownsville, Pa. Hat-pin-point protector. No. 999,079; July 25; Sp. p. 5441; Gaz. vol. 168; p. 968.
Wosinski, Frank, Brooklyn, assignor to Cushman & Denison Mfg. Co., New York, N. Y. Hand-stamp machine. No. 986,338; Mar. 7; Sp. p. 1211; Gaz. vol. 164; p. 196.
Wotherspoon, William W., New York, N. Y. Air-lock. No. 988,614; Apr. 4; Sp. p. 701; Gaz. vol. 165; p. 112.
Wouters, Alfred H., Norwood, Ohio, assignor to Allis-Chalmers Company and The Bullock Electric Manufacturing Company. Coil-forming machine. No. 1,005,915; Oct. 17; Sp. p. 2946; Gaz. vol. 171; p. 534.
Woznack, Michel J., Seattle, Wash. Tooth for excavators or the like. No. 1,011,547; Dec. 12; Sp. p. 2581; Gaz. vol. 173; p. 437.
Wrage, John E., and H. D. Dunn, Arlington, Wash. Cream-cooler. No. 1,010,563; Dec. 5; Sp. p. 355; Gaz. vol. 173; p. 57.
Wratzke, Alfred, assignor to Fred. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Projectile. No. 982,338; Jan. 24; Sp. p. 4783; Gaz. vol. 162; p. 828.
Wray, Archibald. (See Cummings and Wray.)
Wray, Dudley C. (See Flatau, Louis S., assignor.)
Wray, Edward. (See Elbel and Wray.)
Wray, James A., Los Angeles, Cal. Separable steel square. No. 985,314; Feb. 28; Sp. p. 4457; Gaz. vol. 163; p. 802.
Wray Manufacturing Company. (See Falwell, Wray, assignor.)
Wray, Silas G. (See Payne and Wray.)
Wray, Silas G., Grand Junction, Colo. Bullet. No. 996,820; July 4; Sp. p. 455; Gaz. vol. 168; p. 75.
Wray, Silas G., Grand Junction, Colo. Reloading-machine for cartridges and shells. No. 1,012,784; Dec. 26; Sp. p. 5303; Gaz. vol. 173; p. 945.
Wrenn, John O., Portland, Oreg. Aerial propeller. No. 995,512; June 20; Sp. p. 3085; Gaz. vol. 167; p. 549.
Wrenn, Thomas N., Cranford, N. J. Smoking-pipe. No. 980,583; Jan. 3; Sp. p. 882; Gaz. vol. 162; p. 142.
Wright, Abbott L. (See Willson and Wright.)
Wright, Allen C. (See Cottrell and Wright.)
Wright, Anson B., Newport, and F. J. Harrison, Dubois, Pa. Lubricating journal-box. No. 993,808; May 30; Sp. p. 6412; Gaz. vol. 166; p. 1155.
Wright, Anson S., Newport, and F. J. Harrison, Dubois, Pa. Lubricating journal-box. No. 993,808; May 30; Sp. p. 6412; Gaz. vol. 166; p. 1155.
Wright, Armond F. (See Wright, Fred S. and A. F.)
Wright, Bert R., Poughkeepsie, N. Y., assignor to The De Laval Separator Company. Centrifugal liquid-separator. No. 989,099; Apr. 11; Sp. p. 1698; Gaz. vol. 165; p. 296.
Wright, Charles A., Philadelphia, Pa. Ruling-machine. No. 1,010,839; Dec. 5; Sp. p. 978; Gaz. vol. 173; p. 153.
Wright, Charles E., Waterloo, Iowa. Governor. No. 981,964; Jan. 17; Sp. p. 4023; Gaz. vol. 162; p. 671.
Wright, Charles H., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Apparatus for charging blast-furnaces. No. 1,002,018; Aug. 29; Sp. p. 6035; Gaz. vol. 169; p. 1092.
Wright, Charles H., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Apparatus for handling ore. No. 1,007,762; Nov. 7; Sp. p. 242; Gaz. vol. 172; p. 39.
Wright, Charles W., Hobart, Okla. Oil-burner. No. 982,167; Jan. 17; Sp. p. 4407; Gaz. vol. 162; p. 738.
Wright, Chester C., Los Angeles, Cal. Trowel. No. 989,684; Apr. 18; Sp. p. 2988; Gaz. vol. 165; p. 526.
Wright, Chipman V. (See Morse, Albert O., assignor.)
Wright, Clark D., Palestine, Ill. Rail-joint. No. 989,317; Apr. 11; Sp. p. 2178; Gaz. vol. 165; p. 371.
Wright Company, The. (See Wright, Orville and W., assignors.)
Wright, David A., San Antonio, Tex. Joint-fastener. No. 991,589; May 9; Sp. p. 1647; Gaz. vol. 166; p. 303.
Wright, Edward, Brooklyn, N. Y. Road-scarifier. No. 986,113; Mar. 7; Sp. p. 753; Gaz. vol. 164; p. 121.
Wright, Ellery C. (See Cowles, Lucian A., assignor.)
Wright, Elmer A., Everett, Wash. Power set-works for sawmill-carriages. No. 1,004,837; Oct. 3; Sp. p. 631; Gaz. vol. 171; p. 102.
Wright, Ernest, Pinner, England. Machine for decorticating the fibrous leaves or stems of plants. No. 1,002,107; Aug. 29; Sp. p. 6195; Gaz. vol. 169; p. 1120.
Wright, Francis, Luton, England. Insertion for hats. No. 985,488; Feb. 28; Sp. p. 4860; Gaz. vol. 163; p. 863.
Wright, Francis M., *et al.*, trustees. (See Converse, Newton B., assignor.)
Wright, Francis M., *et al.* (See Eastman, Tarleton B., assignor.)
Wright, Frank F., and H. G. Criswell, Aurora, Ill. Machine for making window-shades. No. 992,323; May 16; Sp. p. 3213; Gaz. vol. 166; p. 583.
Wright, Fred S. and A. F., Tacoma, Wash. Internal-combustion rotary engine. No. 992,096; May 9; Sp. p. 2654; Gaz. vol. 166; p. 473.
Wright, Fred W., Memphis, Tenn. Penholder. No. 998,443; July 18; Sp. p. 4012; Gaz. vol. 168; p. 712.
Wright, Frederic W., Cockeysville, Md. Carriage-brake. No. 997,531; July 11; Sp. p. 1935; Gaz. vol. 168; p. 347.
Wright, Frederic W., and E. J. Pilblad, New Glasgow, Nova Scotia, Canada. Dental casting-machine. No. 985,489; Feb. 28; Sp. p. 4861; Gaz. vol. 163; p. 863.
Wright, George. (See Turpin, Ernest, assignor.)
Wright, George H., Philadelphia, Pa. Gas-heated iron. No. 1,001,331; Aug. 22; Sp. p. 4592; Gaz. vol. 169; p. 831.
Wright, George S., New York, N. Y., assignor to himself, E. G. Royce, and T. Birmingham, trustees. Railway-tie. No. 999,477; Aug. 1; Sp. p. 553; Gaz. vol. 169; p. 97.
Wright, George W. (See Lewis, Wright, and Francis.)
Wright, George W., Webb City, Mo. Rotary impelling-pump. No. 1,004,331; Sept. 26; Sp. p. 4721; Gaz. vol. 170; p. 835.
Wright, George W., Elizabeth, N. J. Desk-reminder. No. 1,006,334; Oct. 17; Sp. p. 3897; Gaz. vol. 171; p. 681.
Wright, Gilbert. (See Ball and Wright.)
Wright, Gilbert, Pittsfield, Mass., assignor, by mesne assignments, to General Electric Company. Switch for electric circuits. No. 996,387; June 27; Sp. p. 5044; Gaz. vol. 167; p. 888.
Wright, Gilbert, and F. H. Weston, Schenectady, N. Y., assignors to General Electric Company. Inclosed fuse. No. 1,009,614; Nov. 21; Sp. p. 4411; Gaz. vol. 172; p. 760.
Wright, Harry. (See Cushman and Wright.)
Wright, Henry C., assignor to The Bristol Brass Company, Bristol, Conn. Vapor-burner. No. 990,327; Apr. 25; Sp. p. 4393; Gaz. vol. 165; p. 777.
Wright, Henry C., assignor to The Bristol Brass Company, Bristol, Conn. Vapor-burner. No. 990,692; Apr. 25; Sp. p. 5237; Gaz. vol. 165; p. 904.
Wright, Henry C., assignor to The Bristol Brass Company, Bristol, Conn. Vapor-burner. No. 994,436; June 6; Sp. p. 695; Gaz. vol. 167; p. 119.
Wright, Henry S., Madrid, N. Y. Collapsible shipping-box. No. 1,003,166; Sept. 12; Sp. p. 2158; Gaz. vol. 170; p. 371.
Wright, Ira O., Baltimore, Md., assignor to The Farlow Draft Gear Co. Draft and buffing gear for cars. No. 1,004,517; Sept. 26; Sp. p. 5104; Gaz. vol. 170; p. 899.
Wright, Isaac, Jr., Ingomar, Pa. Automatic regulator. No. 982,026; Jan. 17; Sp. p. 4147; Gaz. vol. 162; p. 692.
Wright, Isaac D., Pittsburg, Kans. Fishing-reel. No. 983,013; Jan. 31; Sp. p. 6241; Gaz. vol. 162; p. 1086.
Wright, J. E. (See Wildman, Linley, assignor.)
Wright, Jacob P., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Match-machine. No. 1,000,223; Aug. 8; Sp. p. 2139; Gaz. vol. 169; p. 381.
Wright, James F., Canton, Ohio. Wrench. No. 981,234; Jan. 10; Sp. p. 2448; Gaz. vol. 162; p. 397.
Wright, James F., Canton, Ohio. Wrench. (Reissue.) No. 13,328; Nov. 28; Sp. p. 6056; Gaz. vol. 172; p. 1074.

Wright, James G. (See Wylie and Wright.)
Wright, James H., Wayne, Nebr. Jack-screw. No. 1,002,795; Sept. 5; Sp. p. 1357; Gaz. vol. 170; p. 206.
Wright, James M., Keokuk, Iowa. Safety-pin. No. 984,409; Feb. 14; Sp. p. 2487; Gaz. vol. 163; p. 421.
Wright, James P., Camden, Ark. Shaving-brush. No. 987,277; Mar. 21; Sp. p. 3217; Gaz. vol. 164; p. 580.
Wright, John, Pollokshields, Glasgow, Scotland. Machinery for the manufacture of inlaid linoleum. No. 1,005,587; Oct. 10; Sp. p. 2253; Gaz. vol. 171; p. 388.
Wright, John A. C., Birmingham, England. Road-vehicle wheel. No. 1,001,794; Aug. 29; Sp. p. 5540; Gaz. vol. 169; p. 1017.
Wright, John E., Chicago, Ill. Drag. No. 983,594; Feb. 7; Sp. p. 739; Gaz. vol. 163; p. 115.
Wright, John E., Wheeling, W. Va. Sand-blast apparatus. No. 993,743; May 30; Sp. p. 6280; Gaz. vol. 166; p. 1133.
Wright, John M., Brainard, Nebr. Cultivator. No. 1,002,951; Sept. 12; Sp. p. 1729; Gaz. vol. 170; p. 299.
Wright, John M., Brainard, Nebr. Wheeled cultivator. No. 1,003,570; Sept. 19; Sp. p. 3029; Gaz. vol. 170; p. 546.
Wright, John M., Brainard, and C. M. East, Valparaiso, Nebr. Draft-equalizer. No. 988,845; Apr. 4; Sp. p. 1176; Gaz. vol. 165; p. 188.
Wright, Joseph E., Lankershim, Cal. Brake. No. 987,337; Mar. 21; Sp. p. 3335; Gaz. vol. 164; p. 599.
Wright, Joseph L., Washington, D. C., assignor, by mesne assignments, to The North Electric Company, Cleveland, Ohio. Electrical switch. No. 991,590; May 9; Sp. p. 1649; Gaz. vol. 166; p. 303.
Wright, Linwood P., Brockton, Mass. Pocket-hanger. No. 1,007,019; Oct. 24; Sp. p. 5412; Gaz. vol. 171; p. 949.
Wright, Loomis J. (See Parkhill and Wright.)
Wright, Louis W., assignor to The W. & E. T. Fitch Co., New Haven, Conn. Slide-buckle. No. 991,812; May 9; Sp. p. 2111; Gaz. vol. 166; p. 377.
Wright, Maurice E., San Diego, Cal. Toy parachute. No. 994,490; June 6; Sp. p. 787; Gaz. vol. 167; p. 135.
Wright, Morris S., Worcester, Mass. Musical instrument. No. 1,002,353; Sept. 5; Sp. p. 403; Gaz. vol. 170; p. 57.
Wright, Orville and W., Dayton, Ohio, assignors to The Wright Company. Flying-machine. No. 987,662; Mar. 21; Sp. p. 3988; Gaz. vol. 164; p. 711.
Wright, Parvin, Los Angeles, Cal. Elevator. No. 987,663; Mar. 21; Sp. p. 3991; Gaz. vol. 164; p. 711.
Wright, Richard H. (See Bracy, Edward L., assignor.)
Wright, Richard H. (See Rose, William, assignor.)
Wright, Roy, Troy, Ohio. Non-refillable bottle. No. 986,114; Mar. 7; Sp. p. 754; Gaz. vol. 164; p. 122.
Wright, Samson D., Cleveland, Ohio. Conveyer. No. 995,648; June 20; Sp. p. 3397; Gaz. vol. 167; p. 598.
Wright, Scott W., assignor of one-half to J. W. Davis, Hamlin, Tex. Adjustable window-scaffold. No. 989,466; Apr. 11; Sp. p. 2481; Gaz. vol. 165; p. 420.
Wright, Thomas. (See Thum and Wright.)
Wright, Townsend, Fayette, Mo. Washing-machine. No. 985,315; Feb. 28; Sp. p. 4459; Gaz. vol. 163; p. 802.
Wright, Virgil M., Cleveland, Ohio. Apparatus for the electrical treatment of liquids and semiliquids. No. 987,845; Mar. 28; Sp. p. 4403; Gaz. vol. 164; p. 801.
Wright, Wesley, Blackwell, Okla. Compound land-roller. No. 1,011,001; Dec. 5; Sp. p. 1321; Gaz. vol. 173; p. 210.
Wright, Wilbur. (See Wright, Orville and W.)
Wright, William A. (See Collison and Wright.)
Wright, William A., assignor of one-half to H. C. Woodyard, Ridge Farm, Ill. Wrench. No. 991,925; May 9; Sp. p. 2339; Gaz. vol. 166; p. 416.
Wright, William H., St. Paul, Minn. Ammonia-concentrator. No. 1,005,761; Oct. 10; Sp. p. 2601; Gaz. vol. 171; p. 448.
Wright, William H., Laconia, N. H. Stump-extractor. No. 1,009,369; Nov. 21; Sp. p. 3901; Gaz. vol. 172; p. 677.
Wright, William J., Franklin, Pa. Explosive-engine. No. 1,006,165; Oct. 17; Sp. p. 3506; Gaz. vol. 171; p. 622.
Wright, William J., Franklin, Pa. Explosive-engine. No. 1,006,166; Oct. 17; Sp. p. 3509; Gaz. vol. 171; p. 622.
Wright, William J., Franklin, Pa. Explosive-engine. No. 1,006,167; Oct. 17; Sp. p. 3513; Gaz. vol. 171; p. 623.
Wright, William J., Franklin, Pa. Explosive-engine. No. 1,006,168; Oct. 17; Sp. p. 3518; Gaz. vol. 171; p. 623.
Wright, William S., Newark, Ohio. Folding gate for car-vestibules. No. 1,007,835; Nov. 7; Sp. p. 437; Gaz. vol. 172; p. 66.
Wright, Wilson D. C., Philadelphia, Pa. Vending-machine. No. 1,003,167; Sept. 12; Sp. p. 2161; Gaz. vol. 170; p. 371.
Wright Wire Company. (See Martin, Frank, assignor.)
Wrights Automatic Tobacco Packing Machine Company. (See Fischer, Louis, assignor.)
Wrigley, Charles R. (See Lambie, Wrigley, and Lambie.)
Wrikeman, John S., Kilgore, Ohio. Hinge. No. 1,001,112; Aug. 22; Sp. p. 4148; Gaz. vol. 169; p. 759.
Wrinkle, Noah, and R. G. Paddock, assignors to Natural Soda Products Company, San Francisco, Cal. Obtaining bicarbonate of soda. No. 1,000,138; Aug. 8; Sp. p. 1958; Gaz. vol. 169; p. 352.
Wrozina, Ignatius, West Haven, Conn. Piano-action. No. 992,528; May 16; Sp. p. 3653; Gaz. vol. 166; p. 655.
Wucher, Jacob H. (See Viani, Elia F., assignor.)
Wuelser, Gottlieb, New Kensington, Pa. Lock for switches. No. 986,887; Mar. 14; Sp. p. 2407; Gaz. vol. 164; p. 416.
Wuerpel, Morris, assignor to Westinghouse Automatic Air & Steam Coupler Company, St. Louis, Mo. Automatic electric coupling mechanism. No. 1,009,370; Nov. 21; Sp. p. 3902; Gaz. vol. 172; p. 677.
Wuerth, William E., *et al.* (See Steckle, Edward J., assignor.)
Wulf, Charles A., Indianapolis, Ind. Water-closet tank. No. 983,968; Feb. 14; Sp. p. 1548; Gaz. vol. 163; p. 272.
Wulf, Charles A., Indianapolis, Ind. Direct-pressure valve. No. 984,410; Feb. 14; Sp. p. 2488; Gaz. vol. 163; p. 422.
Wulfeck, Walter R., Cincinnati, Ohio. Labeling-machine. No. 994,357; June 6; Sp. p. 527; Gaz. vol. 167; p. 91.
Wulff, Alexander, *et al.* (See Feierabend, Helene, assignor.)
Wulff, John P., Minneapolis, Minn. Curling-iron. No. 996,821; July 4; Sp. p. 456; Gaz. vol. 168; p. 75.
Wülfing, Firm of Johann A. (See Ehrmann, Rudolf, assignor.)
Wülfing, Firm of Johann A. (See Quade, Fritz, assignor.)
Wulkan, Heinrich, Budapest, Austria-Hungary. Manufacturing dextrin. No. 993,011; May 23; Sp. p. 4683; Gaz. vol 166; p. 854.
Wunder, George E., assignor to Independent Harvester Company, Plano, Ill. Power-transmitting jack. No. 1,006,169; Oct. 17; Sp. p. 3523; Gaz. vol. 171; p. 624.
Wunder, George E., assignor to Independent Harvester Company, Plano, Ill. Speed-jack. No. 1,006,170; Oct. 17; Sp. p. 3524; Gaz. vol. 171; p. 624.
Wunderlich, Alfred, Brussels, Belgium. Screw-propeller for flying-machines. No. 1,010,337; Nov. 28; Sp. p. 5890; Gaz. vol. 172; p. 1049.
Wunning, Richard, New York, N. Y. Head-rest for beds. No. 1,005,916; Oct. 17; Sp. p. 2950; Gaz. vol. 171; p. 534.
Wünsche, Adolf, Berge-Rorbeck, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Searchlight projectile. No. 1,011,002; Dec. 5; Sp. p. 1323; Gaz. vol. 173; p. 210.
Wuolle, Matti, Calumet, Mich. Lock. No. 994,812; June 13; Sp. p. 1557; Gaz. vol. 167; p. 285.
Wurdack, William, assignor to Frank Adam Electric Company, St. Louis, Mo. Adjustable panel-board support. No. 1,012,957; Dec. 26; Sp. p. 5717; Gaz. vol. 173; p. 1003.
Würl, Eduard, Prague, Austria-Hungary. Manufacturing fodder-cakes. No. 1,007,622; Oct. 31; Sp. p. 6750; Gaz. vol. 171; p. 1214.
Wurmser, Henry O., Lorain, Ohio. Means for starting or cranking gas or explosive engines. No. 984,252; Feb. 14; Sp. p. 2176; Gaz. vol. 163; p. 369.
Wurmser, Henry O., Lorain, Ohio. Starting device for gas or explosive engines. No. 1,007,170; Oct. 31; Sp. p. 5780; Gaz. vol. 171; p. 1057.
Wurster, A. L., *et al.* (See Baker, Ernest M., assignor.)
Wurster, Charles F., assignor to S. W. Evans & Son, Philadelphia, Pa. Umbrella-butt. No. 996,029; July 4; Sp. p. 937; Gaz. vol. 168; p. 149.
Wurster, Charles F., assignor to S. W. Evans & Son, Philadelphia, Pa. Umbrella butt and tip. No. 1,007,320; Oct. 31; Sp. p. 6098; Gaz. vol. 171; p. 1111.
Würth, Paul, Luxemburg, Luxemburg. Apparatus for drying air. No. 995,513; June 20; Sp. p. 3086; Gaz. vol. 167; p. 550.
Wurtzel, Abraham, New York, N. Y. Measuring appliance. No. 988,683; Apr. 4; Sp. p. 840; Gaz. vol. 165; p. 135.
Würzner, Kurt, Dresden, Germany. Riveting-machine. No. 989,100; Apr. 11; Sp. p. 1700; Gaz. vol. 165; p. 296.
Wüst, Wilhelm A., assignor to Moenus Machine Works, Frankfort-on-the-Main, Germany. Machine for measuring the area of leather or the like. No. 1,003,850; Sept. 19; Sp. p. 3608; Gaz. vol. 170; p. 641.
Wuth, Berthold, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Producing discharge effects on colored grounds. No. 1,000,313; Aug. 8; Sp. p. 2316; Gaz. vol. 169; p. 411.
Wyatt, Albert H., assignor of one-half to W. E. Myers, Pearl, Idaho. Combined compass and tape-line. No. 980,730; Jan. 3; Sp. p. 1191; Gaz. vol. 162; p. 190.
Wyatt, William J., assignor to Atlas Metal Works, Dallas, Tex. Acetylene-gas generator. No. 986,115; Mar. 7; Sp. p. 756; Gaz. vol. 164; p. 122.
Wyckoff, Amos A., Santa Cruz, Cal. Aerial machine. No. 1,006,171; Oct. 17; Sp. p. 3524; Gaz. vol. 171; p. 624.
Wyckoff, Herbert B., Centerville, Iowa. Corn-harvester. No. 995,836; June 20; Sp. p. 3816; Gaz. vol. 167; p. 664.
Wyckoff, Joseph E., Los Angeles, Cal. Ditching apparatus. No. 987,937; Mar. 28; Sp. p. 4655; Gaz. vol 164; p. 834.
Wyckoff, Seamans & Benedict. (See Berry, Edgar H., assignor.)
Wyckoff, Seamans & Benedict. (See Dunham, William G., assignor.)
Wyckoff, Seamans & Benedict. (See Ellis, Albert H., assignor.)
Wyckoff, Seamans & Benedict. (See Hewitt, Allin W., assignor.)
Wyckoff, Seamans & Benedict. (See Shrayer, William E., assignor.)

Alphabetical list of patentees—Continued.

Wyckoff, Seamans & Benedict. (See Webb, George B., assignor.)
Wyckoff, Seamans & Benedict. (See Yaw, Clio B., assignor.)
Wyckoff, William T., Lamont, Okla. Gate-operating device. No. 1,003,571; Sept. 19; Sp. p. 3032; Gaz. vol. 170; p. 546.
Wyers, Walter, Norristown, assignor of one-half to H. Kleinman, Conshohocken, Pa. Antifriction metal. No. 1,002,190; Aug. 29; Sp. p. 6359; Gaz. vol. 169; p. 1148.
Wyle, Frank, St. Louis, Mo. Rotary engine. No. 986,116; Mar. 7; Sp. p. 757; Gaz. vol. 164; p. 122.
Wylie, Alfred R., and J. G. Wright, Big Spring, Tex. Vehicle-wheel. No. 1,005,399; Oct. 10; Sp. p. 1805; Gaz. vol. 171; p. 321.
Wylie, Alfred R., and J. G. Wright, Big Spring, Tex. Vehicle-wheel. No. 1,005,400; Oct. 10; Sp. p. 1806; Gaz. vol. 171; p. 322.
Wylie, Thomas B. (See Abel, George H., Jr., assignor.)
Wyllie, James, Blundellsands, near Liverpool, England. Feed-regulator for boilers and the like. No. 1,006,038; Oct. 17; Sp. p. 3219; Gaz. vol. 171; p. 577.
Wyllys, Roselle, *et al.* (See Booth, James A., assignor.)
Wyly, Samuel S., St. Joseph, Mo. Ammonia-absorber. No. 984,729; Feb. 21; Sp. p. 3216; Gaz. vol. 163; p. 569.
Wyman, Alton L., assignor to Gas Traction Company, Minneapolis, Minn. Governor. No. 1,000,477; Aug. 15; Sp. p. 2697; Gaz. vol. 169; p. 500.
Wyman, George R., assignor to C. S. Bird, East Walpole, Mass. Strip-serving device. No. 992,097; May 9; Sp. p. 2657; Gaz. vol. 166; p. 473.
Wyman, George R., assignor to C. S. Bird, East Walpole, Mass. Scoring paper-board. No. 1,000,139; Aug. 8; Sp. p. 1959; Gaz. vol. 169; p. 352.
Wyman, Horace, J. A. Clark, and J. G. Soderberg, Worcester, Mass., assignors to Crompton & Knowles Loom Works. Tuft-yarn needle. No. 1,003,572; Sept. 19; Sp. p. 3034; Gaz. vol. 170; p. 547.
Wyman, Lewis H., Quanah, Tex. Shipping-crate. No. 1,003,573; Sept. 19; Sp. p. 3036; Gaz. vol. 170; p. 547.
Wyman, Orrin J., Albion, N. Y. Farm-gate. No. 1,011,548; Dec. 12; Sp. p. 2582; Gaz. vol. 173; p. 437.
Wynberg, Simon, Amsterdam, Netherlands. Treating sugar-cane for sugar and wax. No. 1,009,615; Nov. 21; Sp. p. 4412; Gaz. vol. 172; p. 760.
Wyndham, Horace, New York, N. Y. Card appliance. No. 986,036; Mar. 7; Sp. p. 603; Gaz. vol. 164; p. 97.
Wynne, Charles W., Charlotte, N. C. Account-book file-case. No. 987,210; Mar. 21; Sp. p. 3072; Gaz. vol. 164; p. 556.
Wysong, Olmedo C., Greensboro, N. C. Abrasive apparatus. No. 994,358; June 6; Sp. p. 529; Gaz. vol. 167; p. 91.
Wysong, Olmedo C., Greensboro, N. C. Sandpapering-machine. No. 996,443; June 27; Sp. p. 5179; Gaz. vol. 167; p. 907.
Xardell, Charles A. (See Xardell, Joseph A. and C. A.)
Xardell, Joseph A. and C. A., Utica, N. Y. Muffler. No. 980,469; Jan. 3; Sp. p. 627; Gaz. vol. 162; p. 103.
Xavier, John F., Cleveland, Ohio, J. E. Schenck and F. Rudolph, Chicago, Ill., assignors to American Can Company, New York, N. Y. Sheet-metal display-can. No. 983,469; Feb. 7; Sp. p. 457; Gaz. vol. 163; p. 73.
Yach, Nick, Polonia, Wis. Self-propelled sled. No. 1,001,113; Aug. 22; Sp. p. 4149; Gaz. vol. 169; p. 759.
Yack, Nick, Polonia, Wis. Runner attachment for wheelbarrows. No. 1,012,043; Dec. 19; Sp. p. 3710; Gaz. vol. 173; p. 646.
Yaeger, Adolph E., Potlatch, Idaho. Vegetable or meat press. No. 1,007,907; Nov. 7; Sp. p. 592; Gaz. vol. 172; p. 91.
Yaffe, Samuel. (See Mayer and Yaffe.)
Yager, Hugo, Bradley Beach, N. J. Passenger-recorder. No. 990,091; Apr. 18; Sp. p. 3839; Gaz. vol. 165; p. 665.
Yale, Edwin L., Lansing, Mich. Thread-dispenser. No. 992,324; May 16; Sp. p. 3216; Gaz. vol. 166; p. 584.
Yale, Fred S., New York, N. Y. Automobile-engine. No. 999,941; Aug. 8; Sp. p. 1497; Gaz. vol. 169; p. 284.
Yale Manufacturing Company. (See Arneson, Oscar A., assignor.)
Yale Novelty Company. (See Snow and Farrell, assignors.)
Yale & Towne Manufacturing Company, The. (See Bardwell, Arthur F., assignor.)
Yale & Towne Manufacturing Company, The. (See Bishop, Charles B., assignor.)
Yale & Towne Manufacturing Company, The. (See Lewis, Rollin C., assignor.)
Yale & Towne Manufacturing Company, The. (See Miller, Charles A., assignor.)
Yale & Towne Manufacturing Company, The. (See Regan, Joseph C., assignor.)
Yale & Towne Manufacturing Company, The. (See Taylor, Warren H., assignor.)
Yancey, George R., Louisville, Ky. Ball-cock. No. 996,743; July 4; Sp. p. 285; Gaz. vol. 168; p. 50.
Yancey, James H. (See Yancey, William J. and J. H.)
Yancey, Lee, and J. W. Luppold, Denver, Colo. Electric cooker. No. 999,618; Aug. 1; Sp. p. 830; Gaz. vol. 169; p. 145.
Yancey, William J. and J. H., Brockton, Mass. Hose-coupling. No. 994,230; June 6; Sp. p. 264; Gaz. vol. 167; p. 45.
Yanch, Edwin R., Galveston, Tex. Moving-picture machine. No. 992,098; May 9; Sp. p. 2659; Gaz. vol. 166; p. 473.
Yankaus, Baltrus S., *et al.* (See Glamzo, Paul, assignor.)
Yantes, Frank, Delano, Minn. Rotary engine. No. 1,001,114; Aug. 22; Sp. p. 4151; Gaz. vol. 169; p. 759.
Yantis, John P. (See Yantis, Samuel E., assignor.)
Yantis, Samuel E., Kansas City, Kans., assignor of one-fourth to J. P. Yantis, Dawson, N. Mex. Paper-roll for cash-registers. No. 1,011,549; Dec. 12; Sp. p. 2585; Gaz. vol. 173; p. 438.
Yanzick, John, Jr., and F. McDermott, Spearfish, S. D. Grain-shocker. No. 984,411; Feb. 14; Sp. p. 2490; Gaz. vol. 163; p. 422.
Yardley, Ralph W. E. (See Burkam and Yardley.)
Yarian, Charles E., Galion, Ohio. Lightning-rod. No. 984,175; Feb. 14; Sp. p. 1990; Gaz. vol. 163; p. 341.
Yarrington, Samuel S., Wilmington, Del. Aeroplane. No. 983,192; Jan. 31; Sp. p. 6582; Gaz. vol. 162; p. 1145.
Yarrington, Samuel S., Wilmington, Del. Catamaran. No. 996,444; June 27; Sp. p. 5182; Gaz. vol. 167; p. 908.
Yarrington, Samuel S., Wilmington, Del. Flying-machine. No. 1,006,335; Oct. 17; Sp. p. 3898; Gaz. vol. 171; p. 681.
Yaryan, Homer T., assignor to The Yaryan Naval Stores Company, Toledo, Ohio. Extracting turpentine and rosin from resinous woods. No. 992,325; May 16; Sp. p. 3217; Gaz. vol. 166; p. 584.
Yaryan Naval Stores Company, The. (See Yaryan, Homer T., assignor.)
Yassenoff, Isidor, assignor to The Swash Motor Washer Company, Columbus, Ohio. Adjustable stand and burner. No. 989,747; Apr. 18; Sp. p. 3118; Gaz. vol. 165; p. 548.
Yates, Charles A., assignor to The Sunburst Alcohol Stove Co., New York, N. Y. Vapor-lamp burner. No. 993,809; May 30; Sp. p. 6415; Gaz. vol. 166; p. 1156.
Yates, Edgar M., Norman, Okla. Aeroplane. No. 991,259; May 2; Sp. p. 918; Gaz. vol. 166; p. 155.
Yates, Howard D., Bradford, Pa. Wet separator for dust-removing apparatus. No. 1,011,550; Dec. 12; Sp. p. 2586; Gaz. vol. 173; p. 438.
Yates, James H., Withernsea, England. Steam-whistle. No. 989,936; Apr. 18; Sp. p. 3532; Gaz. vol. 165; p. 614.
Yates, John W., New York, N. Y. Automatic gravity-stop pivot mechanism. No. 980,386; Jan. 3; Sp. p. 425; Gaz. vol. 162; p. 74.
Yates, John W., New York, N. Y. Automatic locking mechanism. No. 997,532; July 11; Sp. p. 1937; Gaz. vol. 168; p. 347.
Yates, Luther L., *et al.* (See Downer, John H., assignor.)
Yates, Oscar C. (See Mayer and Yates.)
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 983,470; Feb. 7; Sp. p. 459; Gaz. vol. 163; p. 73.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 984,338; Feb. 14; Sp. p. 2352; Gaz. vol. 163; p. 398.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 995,514; June 20; Sp. p. 3090; Gaz. vol. 167; p. 550.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 995,515; June 20; Sp. p. 3095; Gaz. vol. 167; p. 551.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 999,942; Aug. 8; Sp. p. 1498; Gaz. vol. 169; p. 284.
Yaw, Clio B., Arlington, N. J., assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 1,009,371; Nov. 21; Sp. p. 3904; Gaz. vol. 172; p. 678.
Yaw, Clio B., Arlington, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Type-writing machine. No. 1,012,785; Dec. 26; Sp. p. 5305; Gaz. vol. 173; p. 945.
Yaw, Clio B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 995,752; June 20; Sp. p. 3621; Gaz. vol. 167; p. 635.
Yaw, Clio B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 995,753; June 20; Sp. p. 3633; Gaz. vol. 167; p. 635.
Yaw, Clio B., New York, assignor to Wyckoff, Seamans & Benedict, Ilion, N. Y. Type-writing machine. No. 1,010,711; Dec. 5; Sp. p. 680; Gaz. vol. 173; p. 109.
Yawman & Erbe Manufacturing Company. (See Weiss and Yawman, assignors.)
Yawman & Erbe Manufacturing Company. (See Yawman, Philip H., assignor.)
Yawman, Philip H. (See Weiss and Yawman.)
Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. File or transfer case. No. 998,444; July 18; Sp. p. 4013; Gaz. vol. 168; p. 712.

Yaxley, Ernest E., Chicago, Ill. Indicating mechanism. No. 1,001,795; Aug. 29; Sp. p. 5542; Gaz. vol. 169; p. 1017.
Yaxley, Ernest E., assignor to Monarch Telephone Manufacturing Co., Chicago, Ill. Switch. No. 987,338; Mar. 21; Sp. p. 3337; Gaz. vol. 164; p. 599.
Yaxley, Ernest E., assignor to Monarch Telephone Manufacturing Company, Chicago, Ill. Time-recorder. No. 997,353; July 11; Sp. p. 1597; Gaz. vol. 168; p. 289.
Yeager, William C. (See Burkle and Yeager.)
Yeagle, Walter R., Eddington, Pa. Swingletree and neck-yoke. No. 994,491; June 6; Sp. p. 789; Gaz. vol. 167; p. 135.
Yeakley, Melvin A., Kamms, Ohio. Pneumatic hammer. No. 1,000,568; Aug. 15; Sp. p. 2908; Gaz. vol. 169; p. 534.
Yeates, Ernest G., Hamilton, Ontario, Canada. Gapped wheel. No. 1,006,039; Oct. 17; Sp. p. 3224; Gaz. vol. 171; p. 577.
Yelf, Henry H., Southsea, Portsmouth, England. Combination device for type-writers. No. 1,012,786; Dec. 26; Sp. p. 5309; Gaz. vol. 173; p. 945.
Yelick, James. (See Fricke and Yelick.)
Yelton, Charles B. (See Haley and Yelton.)
Yemiker, John. (See Stiles and Yemiker.)
Yengst, Philip, New York, N. Y. Interlocking brick. No. 989,467; Apr. 11; Sp. p. 2482; Gaz. vol. 165; p. 420.
Yeo, Richard, Boston, Mass. Stump-extractor. No. 1,006,336; Oct. 17; Sp. p. 3902; Gaz. vol. 171; p. 682.
Yeo, William, Dunbar, Pa. Sand-drier. No. 980,387; Jan. 3; Sp. p. 426; Gaz. vol. 162; p. 74.
Yeoman, George W., St. Paul, Minn. Flavoring butter. No. 983,854; Feb. 7; Sp. p. 1282; Gaz. vol. 163; p. 205.
Yerger, Charles W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 997,224; July 4; Sp. p. 1317; Gaz. vol. 168; p. 215.
Yerkes, Albert E. (See Sutherland, Emil, assignor.)
Yerkes, Silas H., Philadelphia, Pa. Waterproof shoe. No. 982,339; Jan. 24; Sp. p. 4784; Gaz. vol. 162; p. 829.
Yerkes, William G., *et al.* (See Shafer, Frank B., assignor.)
Yerton, George B., New York, N. Y. Submarine boat. No. 994,552; June 6; Sp. p. 935; Gaz. vol. 167; p. 155.
Yinger, William, Dallas, Pa. Hat-pin guard and holder. No. 1,009,124; Nov. 21; Sp. p. 3330; Gaz. vol. 172; p. 589.
Yingling, Frank B., Washington, D. C. Recoil-checking mechanism for cannon. No. 1,010,564; Dec. 5; Sp. p. 358; Gaz. vol. 173; p. 57.
Yngström, Lars, Falu Grufva, Falun, assignor to Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden. Electric furnace. No. 1,001,915; Aug. 29; Sp. p. 5822; Gaz. vol. 169; p. 1059.
Yoakam, Arthur, Pittsburg, Kans. Show-case fixture. No. 988,530; Apr. 4; Sp. p. 510; Gaz. vol. 165; p. 82.
Yoch, Jacob B. (See Baum and Yoch.)
Yocum, John W., Broken Arrow, Okla. Mail-bag crane. No. 998,730; July 25; Sp. p. 4661; Gaz. vol. 168; p. 844.
Yoder, Frederick S. (See Tyson, James R., assignor.)
Yoe, Henry, assignor to Detroit Steel Products Company, Detroit, Mich. Sash-center. No. 992,326; May 16; Sp. p. 3221; Gaz. vol. 166; p. 584.
Yoe, Henry F., assignor to The Monarch Manufacturing Company, Detroit, Mich. Sash-center. No. 1,012,498; Dec. 19; Sp. p. 4663; Gaz. vol. 173; p. 800.
Yon, Yancey L., assignor of one-fourth to W. T. Prescott and one-fourth to L. T. May, Edgefield, S. C. Self-oiling arbor for shell-rollers. No. 985,649; Feb. 28; Sp. p. 5185; Gaz. vol. 163; p. 917.
Yopp, John, *et al.* (See Gage, William F., assignor.)
York, Henry, Saugerties, N. Y. Envelop-sealing device. No. 988,615; Apr. 4; Sp. p. 703; Gaz. vol. 165; p. 112.
York, James E., New York, N. Y., assignor to York Rolling Process Company. Rerolling rails. No. 1,001,115; Aug. 22; Sp. p. 4152; Gaz. vol. 169; p. 760.
York, James E., New York, N. Y., assignor to York Rolling Process Company. Steel-rolling apparatus. No. 1,001,116; Aug. 22; Sp. p. 4155; Gaz. vol. 169; p. 760.
York, John A., Hartford, Conn., assignor to General Electric Company. Snap-switch. No. 981,734; Jan. 17; Sp. p. 3479; Gaz. vol. 162; p. 589.
York, Nathaniel W., Indianapolis, Ind. Candy-batch roller. No. 987,785; Mar. 28; Sp. p. 4277; Gaz. vol. 164; p. 780.
York Rolling Process Company. (See York, James E., assignor.)
Yost Electric Manufacturing Company, The. (See Kenney, Owen E., assignor.)
Yost, Frederick W., Chicago, Ill. Treating materials. No. 1,003,682; Sept. 19; Sp. p. 3261; Gaz. vol. 170; p. 586.
Yost, Frederick W., Chicago, Ill. Treating materials. No. 1,003,683; Sept. 19; Sp. p. 3268; Gaz. vol. 170; p. 587.
Yost, Frederick W., Chicago, Ill. Treating materials. No. 1,003,684; Sept. 19; Sp. p. 3275; Gaz. vol. 170; p. 587.
Yost, Henry W., Springfield, Ohio. Post or bar. No. 986,258; Mar. 7; Sp. p. 1051; Gaz. vol. 164; p. 168.
Yost, John E., Arkansas City, Kans. Game apparatus. No. 1,005,095; Oct. 3; Sp. p. 1119; Gaz. vol. 171; p. 189.
Yost, John E., Arkansas City, Kans. Boy's wagon. No. 1,006,708; Oct. 24; Sp. p. 4723; Gaz. vol. 171; p. 841.
Yost, Joseph E., assignor to W. Hope, Springfield, Ohio. Motor. No. 994,231; June 6; Sp. p. 266; Gaz. vol. 167; p. 46.
Yost, Morris J. V., Hanover, Pa. Shuttle-motion for looms. No. 994,295; June 6; Sp. p. 393; Gaz. vol. 167; p. 67.
Yost, Winfield, Montreal, Quebec, Canada, assignor to National Dump Car Company. Dump-car. No. 992,625; May 16; Sp. p. 3859; Gaz. vol. 166; p. 688.
Yost, Winfield H., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism. No. 1,003,574; Sept. 19; Sp. p. 3037; Gaz. vol. 170; p. 548.
Yost, Winfield H., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,012,044; Dec. 19; Sp. p. 3711; Gaz. vol. 173; p. 646.
Yost Writing Machine Company. (See Smith, Arthur W., assignor.)
Yost Writing Machine Company. (See Turner, Samuel W., assignor.)
Youlten, William, Brighton, England. Disintegrator. No. 989,468; Apr. 11; Sp. p. 2483; Gaz. vol. 165; p. 420.
Youlten, William, Brighton, England. Material-separating machine. No. 1,010,104; Nov. 28; Sp. p. 5420; Gaz. vol. 172; p. 971.
Youlten, William, Westminster, London, England. Fiber-cleaning apparatus. No. 993,492; May 30; Sp. p. 5718; Gaz. vol. 166; p. 1045.
Younce, Elias F., Union, Ohio. Silo. No. 1,001,724; Aug. 29; Sp. p. 5388; Gaz. vol. 169; p. 994.
Young, Arthur, and T. Rowlands, Sheffield, England. Manufacturing hollow metal rods, bars, and the like. No. 993,631; May 30; Sp. p. 6015; Gaz. vol. 166; p. 1093.
Young, Bengt J., Minneapolis, Minn. Shock-loader. No. 1,007,408; Oct. 31; Sp. p. 6276; Gaz. vol. 171; p. 1142.
Young, Charles C., Des Moines, Iowa. Obstetrical forceps. No. 1,006,616; Oct. 24; Sp. p. 4557; Gaz. vol. 171; p. 812.
Young, Charles D., Pittsburg, Pa. Stoker-feed mechanism. No. 1,000,658; Aug. 15; Sp. p. 3124; Gaz. vol. 169; p. 566.
Young, Charles H. (See Hill and Young.)
Young, Charles K., Philadelphia, Pa. Car-raiser and safety-brake. No. 999,424; Aug. 1; Sp. p. 455; Gaz. vol. 169; p. 80.
Young, Charles P., Broken Bow, Nebr. Neck-yoke. No. 1,006,617; Oct. 24; Sp. p. 4559; Gaz. vol. 171; p. 813.
Young, Cleveland O., Chicago, Ill. Transmission-gearing. No. 984,730; Feb. 21; Sp. p. 3219; Gaz. vol. 163; p. 569.
Young, Clifton E. (See Young, Robert L. and C. E.)
Young, Clifton F., and L. A. Berger, Circleville, Ohio. Water-elevating apparatus. No. 993,432; May 30; Sp. p. 5583; Gaz. vol. 166; p. 1024.
Young, Curgus. (See Springer, Emil R., assignor.)
Young, Edward J., St. Paul, Minn. Shoe-shining device. No. 1,007,259; Oct. 31; Sp. p. 5969; Gaz. vol. 171; p. 1089.
Young, Edward W., Tytherley, Wimborne, England. Screw-propeller. No. 1,008,402; Nov. 14; Sp. p. 1734; Gaz. vol. 172; p. 304.
Young, Ernest J., Fleming, N. Y. Grinder for ensilage-cutter and other knives. No. 999,943; Aug. 8; Sp. p. 1502; Gaz. vol. 169; p. 284.
Young, Frank A., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing machine. No. 988,531; Apr. 4; Sp. p. 512; Gaz. vol. 165; p. 82.
Young, Frank A., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 990,939; May 2; Sp. p. 235; Gaz. vol. 166; p. 41.
Young, Frank A., assignor to The Monarch Typewriter Company, Syracuse, N. Y. Type-writing machine. No. 990,940; May 2; Sp. p. 239; Gaz. vol. 166; p. 41.
Young, Franklin K., Winthrop, Mass., assignor, by mesne assignments, to International Firearms Company, Wilmington, Del. Firearm. No. 998,867; July 25; Sp. p. 4962; Gaz. vol. 168; p. 892.
Young, Franz W., Everett, assignor to S. B. Condit, Jr., Boston, Mass. Self-adjustable contact-maker for electric switches. No. 1,001,796; Aug. 29; Sp. p. 5545; Gaz. vol. 169; p. 1018.
Young, Frederick W., East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Bridging-block for dynamo-electric machines. No. 990,180; Apr. 18; Sp. p. 4031; Gaz. vol. 165; p. 694.
Young, Frederick W., East Orange, assignor to Crocker-Wheeler Company, Ampere, N. J. Bridging-block for dynamo-electric machines. No. 996,822; July 4; Sp. p. 457; Gaz. vol. 168; p. 75.
Young, George T., Stoneham, assignor to Rice & Hutchins, Incorporated, Boston, Mass. Advertising adding-pocket. No. 986,416; Mar. 7; Sp. p. 1387; Gaz. vol. 164; p. 224.
Young, Gilbert C., Oceano, Cal. Immersion-heater. No. 1,000,871; Aug. 15; Sp. p. 3568; Gaz. vol. 169; p. 641.
Young, Gunnar, Venice, Cal. Apparatus for amusement of the public. No. 987,029; Mar. 14; Sp. p. 2663; Gaz. vol. 164; p. 460.
Young, Harry B., Mount Holly, N. J. Self-ventilating brooder for young chickens. No. 982,196; Jan. 17; Sp. p. 4464; Gaz. vol. 162; p. 748.

Alphabetical list of patentees—Continued.

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Young, Harvey L., Dayton, Ohio. Floor-surfacing machine. No. 990,092; Apr. 18; Sp. p. 3840; Gaz. vol. 165; p. 665.
Young, Henry M., Chicago, Ill. Vehicle-wheel. No. 990,328; Apr. 25; Sp. p. 4396; Gaz. vol. 165; p. 778.
Young, Henry P., assignor of one-half to K. Peer, Milwaukee, Wis. Bottle and jar cap. No. 985,118; Feb. 21; Sp. p. 3963; Gaz. vol. 163; p. 700.
Young, Herbert W., Chicago, assignor to Sangamo Electric Company, Springfield, Ill. Stylus for graphic recording instruments. No. 1,008,100; Nov. 7; Sp. p. 977; Gaz. vol. 172; p. 157.
Young, J. Lowe. (See Angle and Young.)
Young, Jacob L., New Rochelle, N. Y. Pliers. No. 995,754; June 20; Sp. p. 3641; Gaz. vol. 167; p. 636.
Young, James M., Pittsburg, Pa. Mechanism for operating flushing-valves. No. 987,030; Mar. 14; Sp. p. 2666; Gaz. vol. 164; p. 461.
Young, James M., assignor to Fort Pitt Supply Company, Pittsburg, Pa. Flush-valve mechanism. No. 999,619; Aug. 1; Sp. p. 832; Gaz. vol. 169; p. 145.
Young, James W., Redditch, England. Lock-joint for fishing-rods, &c. No. 998,318; July 18; Sp. p. 3765; Gaz. vol. 168; p. 669.
Young, James W., assignor of one-half to G. McGee, Snyder, Tex. Oil-stove. No. 992,626; May 16; Sp. p. 3861; Gaz. vol. 166; p. 689.
Young, John H., Kingsbury, Ind. Door-check. No. 987,529; Mar. 21; Sp. p. 3715; Gaz. vol. 164; p. 664.
Young, John L., Collingswood, N. J. Book rest or table. No. 993,493; May 30; Sp. p. 5719; Gaz. vol. 166; p. 1045.
Young, John S., Pittsburg, Pa. Cushioning device for foot wearing-apparel. No. 986,666; Mar. 14; Sp. p. 1938; Gaz. vol. 164; p. 341.
Young, John W. (See Roberts and Young.)
Young, Joseph W., Jersey City, N. J. Extension-bracket for foundations. No. 1,007,511; Oct. 31; Sp. p. 6510; Gaz. vol. 171; p. 1177.
Young, Le Grand, *et al.* (See Croft, Robert, assignor.)
Young, Leonard A. (See Smith, Albert E., assignor.)
Young, Leonard A., Detroit, Mich. Spring construction. No. 981,735; Jan. 17; Sp. p. 3480; Gaz. vol. 162; p. 589.
Young, Leonard A., Detroit, Mich. Spring construction. No. 988,425; Apr. 4; Sp. p. 289; Gaz. vol. 165; p. 47.
Young, Leonard A., Detroit, Mich. Cable-fastener. No. 1,008,686; Nov. 14; Sp. p. 2398; Gaz. vol. 172; p. 405.
Young, Mary A., Chicago, Ill. Dumping mechanism. No. 983,666; Feb. 7; Sp. p. 888; Gaz. vol. 163; p. 141.
Young, McClintock, and H. J. Lebherz, Frederick, Md., assignors to Ox Fibre Brush Company. Brush-making machine. No. 982,340; Jan. 24; Sp. p. 4785; Gaz. vol. 162; p. 829.
Young, Norris W., Wilsonville, Oreg. Intermittent-operating mechanism. No. 1,008,766; Nov. 14; Sp. p. 2574; Gaz. vol. 172; p. 433.
Young, Norris W., Wilsonville, Oreg. Binding and tying mechanism. No. 1,008,767; Nov. 14; Sp. p. 2578; Gaz. vol. 172; p. 433.
Young, Norris W., Wilsonville, Oreg. Wire-twisting apparatus. No. 1,009,006; Nov. 14; Sp. p. 3077; Gaz. vol. 172; p. 511.
Young, Porus J., Clendenin, W. Va. Ax. No. 994,628; June 6; Sp. p. 1091; Gaz. vol. 167; p. 181.
Young, R. M. (See Barnes, John R., Jr., assignor.)
Young, Robert L. and C. E., Washington, D. C. Nonrefillable bottle. No. 1,012,958; Dec. 26; Sp. p. 5719; Gaz. vol. 173; p. 1003.
Young, Stewart W., Palo Alto, assignor to Globe Chemical Works, San Francisco, Cal. Fume-destroying composition. No. 1,007,409; Oct. 31; Sp. p. 6281; Gaz. vol. 171; p. 1142.
Young, Stewart W., Palo Alto, assignor to Globe Chemical Works, San Francisco, Cal. Fume-destroying composition. No. 1,011,699; Dec. 12; Sp. p. 2935; Gaz. vol. 173; p. 491.
Young, Thomas C., Furnessville, Ind. Trousers-protector. No. 1,005,401; Oct. 10; Sp. p. 1809; Gaz. vol. 171; p. 322.
Young, Wallace A. (See Beebe, William W., assignor.)
Young, William, Uledi, Pa. Door for ovens and furnaces. No. 986,340; Mar. 7; Sp. p. 1215; Gaz. vol. 164; p. 196.
Young, William, Kayford, W. Va. Car-wheel. No. 998,731; July 25; Sp. p. 4662; Gaz. vol. 168; p. 845.
Young, William J. J., Boston, Mass. Oar-lock. No. 998,562; July 18; Sp. p. 4245; Gaz. vol. 168; p. 752.
Young, William W., Springfield, Mass. Making talking-machine diaphragms. No. 980,470; Jan. 3; Sp. p. 630; Gaz. vol. 162; p. 104.
Young, William W., Springfield, Mass. Making acoustic diaphragms. No. 982,027; Jan. 17; Sp. p. 4149; Gaz. vol. 162; p. 692.
Young, William W., Springfield, Mass. Talking-machine diaphragm. No. 982,197; Jan. 17; Sp. p. 4465; Gaz. vol. 162; p. 749.
Young, William W., Springfield, Mass. Acoustic diaphragm. No. 983,416; Feb. 7; Sp. p. 332; Gaz. vol. 163; p. 56.
Younggreen, Grover C., Los Angeles, Cal. Safety attachment for aeroplanes. No. 997,354; July 11; Sp. p. 1599; Gaz. vol. 168; p. 290.
Youngquist, Carl F. (See Youngquist, Carl G. and C. F.)
Youngquist, Carl G. and C. F., San Francisco, Cal. Wrench. No. 1,008,403; Nov. 14; Sp. p. 1735; Gaz. vol. 172; p. 305.
Youngren, Harry L., Galesburg, Ill. Reel. No. 983,795; Feb. 7; Sp. p. 1151; Gaz. vol. 163; p. 184.
Youngstown Sheet and Tube Company, The. (See Bickerton, George W., assignor.)
Youngstown Sheet & Tube Company, The. (See Nullmeyer, Frank H., assignor.)
Younie, Lewis E., assignor to The O'Gorman Younie Company, Portland, Oreg. Demountable rim. No. 999,138; July 25; Sp. p. 5539; Gaz. vol. 168; p. 984.
Younker, Herman, Louisiana, Mo. Electric gas-igniting fixture. No. 987,339; Mar. 21; Sp. p. 3341; Gaz. vol. 164; p. 600.
Younkman, George W., assignor to The Younkman Lowerator Co., New York, N. Y. Freight-conveyer. No. 999,080; July 25; Sp. p. 5442; Gaz. vol. 168; p. 968.
Younkman Lowerator Co., The. (See Younkman, George W., assignor.)
Yung, Henry, Shiloh, S. D. Poultry-fountain. No. 1,006,618; Oct. 24; Sp. p. 4560; Gaz. vol. 171; p. 813.
Zabel, Paul F. W., and P. J. Glanz, Hammond, Oreg. Buffer for beer-faucets. No. 1,008,233; Nov. 7; Sp. p. 1270; Gaz. vol. 172; p. 207.
Zabranski, Franz, Vienna, Austria-Hungary. Spittoon. No. 999,537; Aug. 1; Sp. p. 680; Gaz. vol. 169; p. 116.
Zabrocki, Tony, Winona, Minn. Magazine-camera. No. 990,941; May 2; Sp. p. 242; Gaz. vol. 166; p. 42.
Zachara, Ladislaus, Sandpoint, Idaho. Pipe-fastener. No. 985,094; Feb. 21; Sp. p. 3921; Gaz. vol. 163; p. 692.
Zachara, Ladislaus, Sandpoint, Idaho. Match-box. No. 992,930; May 23; Sp. p. 4503; Gaz. vol. 166; p. 826.
Zachariae, Auguste, Hanover, Germany. Exercising-machine. No. 1,007,410; Oct. 31; Sp. p. 6281; Gaz. vol. 171; p. 1142.
Zacharias, Stanislaus, Detroit, Mich. Apparatus for use in building illuminating-pavements. No. 997,533; July 11; Sp. p. 1938; Gaz. vol. 168; p. 347.
Zaertling, Rudolf, and H. Friedrich, Leverkusen, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Diphenylene dioxid. No. 981,348; Jan. 10; Sp. p. 2692; Gaz. vol. 162; p. 437.
Zaharis, Diamond, Susquehanna, Pa. Display-stand. No. 1,012,959; Dec. 26; Sp. p. 5721; Gaz. vol. 173; p. 1004.
Zahm, Edward, Buffalo, N. Y. Apparatus for sterilizing water. No. 1,005,493; Oct. 10; Sp. p. 2006; Gaz. vol. 171; p. 353.
Zahn, Edward L., Hambleton, W. Va. Chopper. No. 983,969; Feb. 14; Sp. p. 1549; Gaz. vol. 163; p. 273.
Zahn, Ernest, Norwalk, Conn. Folding scaffold. No. 1,006,337; Oct. 17; Sp. p. 3903; Gaz. vol. 171; p. 682.
Zahn, Oswald F., assignor to Zahn Self Righting Roller Bearing Company, Los Angeles, Cal. Roller-bearing. No. 981,049; Jan. 10; Sp. p. 2004; Gaz. vol. 162; p. 330.
Zahn, Oswald F., assignor to Zahn Self Righting Roller Bearing Company, Los Angeles, Cal. Roller-bearing. No. 996,550; June 27; Sp. p. 5379; Gaz. vol. 167; p. 941.
Zahn, Robert, Plauen, Germany. Jacquard embroidering-machine. No. 995,394; June 13; Sp. p. 2821; Gaz. vol. 167; p. 479.
Zahn, Robert, Plauen, Germany. Jacquard embroidering-machine. No. 995,395; June 13; Sp. p. 2824; Gaz. vol. 167; p. 480.
Zahn, Robert, Plauen, Germany. Jacquard mechanism for embroidering-machines. No. 1,010,475; Dec. 5; Sp. p. 157; Gaz. vol. 173; p. 28.
Zahn Self Righting Roller Bearing Company. (See Zahn, Oswald F., assignor.)
Zähringer, Arnold, assignor to Firm of R. Bosch, Stuttgart, Germany. Interrupting mechanism for electric ignition systems for internal-combustion engines. No. 1,008,768; Nov. 14; Sp. p. 2585; Gaz. vol. 172; p. 433.
Zaino, Adolph, New York, N. Y. Measuring-tool. No. 999,425; Aug. 1; Sp. p. 456; Gaz. vol. 169; p. 80.
Zalondek, Anton A., assignor of one-half to W. W. Bierce, Oklahoma, Okla. Cotton-cleaner. No. 988,532; Apr. 4; Sp. p. 515; Gaz. vol. 165; p. 82.
Zamboni, Lawrence, New York, N. Y., assignor of one-half to C. A. Sterling, East Orange, N. J. Roller-skate. No. 983,970; Feb. 14; Sp. p. 1551; Gaz. vol. 163; p. 273.
Zamora, Gustavo, *et al.* (See McClendon, George E., assignor.)
Zampol, Charles. (See Zampol, Peter and C.)
Zampol, Peter and C., New York, N. Y. Aeroplane. No. 1,003,851; Sept. 19; Sp. p. 3609; Gaz. vol. 170; p. 642.
Zander, Arnold, Two Rivers, Wis. Device for turning music-leaves. No. 1,011,700; Dec. 12; Sp. p. 2935; Gaz. vol. 173; p. 491.
Zander, John, Chicago, Ill. Burner. No. 1,011,100; Dec. 5; Sp. p. 1538; Gaz. vol. 173; p. 243.
Zander, John L., Newark, N. J. Recording-indicator. No. 993,935; May 30; Sp. p. 6641; Gaz. vol. 166; p. 1196.
Zart, Arthur. (See Günther, Hesse, and Zart.)
Zart, Arthur. (See Günther, Hesse, Zart, and Schweitzer.)

Alphabetical list of patentees—Continued.

Zart, Arthur. (See Schweitzer and Zart.)
Zart, Arthur, Vohwinkel, near Elberfeld, assignor to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Bluish-violet disazo dye. No. 1,012,960; Dec. 26; Sp. p. 5722; Gaz. vol. 173; p. 1004.
Zart, Arthur, Vohwinkel, near Elberfeld, and H. Schweitzer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow disazo dye. No. 999,944; Aug. 8; Sp. p. 1506; Gaz. vol. 169; p. 285.
Zart, Arthur, Vohwinkel, and H. Schweitzer, assignors to Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld, Germany. Yellow disazo dye. No. 1,001,183; Aug. 22; Sp. p. 4276; Gaz. vol. 169; p. 780.
Zarth, Franz, Mallmitz, Germany. Machine for dividing dough and other soft materials. No. 983,595; Feb. 7; Sp. p. 741; Gaz. vol. 163; p. 116.
Zastrow, Henry A. (See Bayley and Zastrow.)
Zastrow, Richard, and L. T. Snow, New Haven, Conn.; said Snow assignor to said Zastrow. Bottle-closing device. No. 981,965; Jan. 17; Sp. p. 4025; Gaz. vol. 162; p. 672.
Zea, William A. (See Stephens and Zea.)
Zeh, August, Munich, Germany. Ceiling and the like. No. 1,012,499; Dec. 19; Sp. p. 4664; Gaz. vol. 173; p. 801.
Zehfus, John C., Chicago, Ill. Dust-collector. No. 997,171; July 4; Sp. p. 1214; Gaz. vol. 168; p. 196.
Zehl, Artur, Leisnig, Germany. Shoe. No. 990,942; May 2; Sp. p. 247; Gaz. vol. 166; p. 43.
Zeidler, William A., New York, N. Y. Laundry-shaper. No. 986,959; Mar. 14; Sp. p. 2540; Gaz. vol. 164; p. 439.
Zeidler, William A., assignor to William A. Zeidler Company, New York. N. Y. Machine for folding, edge-ironing, and shaping turn-down collars. No. 1,010,712; Dec. 5; Sp. p. 691; Gaz. vol. 173; p. 110.
Zeidler, William A., assignor of one-half to G. A. Clark, New York, N. Y. Machine for folding and shaping turn-down collars. No. 1,010,713; Dec. 5; Sp. p. 696; Gaz. vol. 173; p. 110.
Zeimann, David, *et al.* (See Riedl, Ferdinand, assignor.)
Zeiss, Firm of Carl. (See Cordeiro and Pulfrich, assignors.)
Zeiss, Firm of Carl. (See Eppenstein, Otto, assignor.)
Zeiss, Firm of Carl. (See Köhler, August, assignor.)
Zeiss, Firm of Carl. (See Konig, Albert, assignor.)
Zeiss, Firm of Carl. (See Meyer, Franz, assignor.)
Zeiss, Firm of Carl. (See Rohr, Moritz von, assignor.)
Zeiss, Firm of Carl. (See Straubel, Rudolf, assignor.)
Zelazo, Louis, St. Louis, Mo. Liquid cooler or receptacle. No. 987,031; Mar. 14; Sp. p. 2668; Gaz. vol. 164; p. 461.
Zell, John W., assignor of one-half to G. Pennell, Duncannon, Pa. Coal-dust feeder. No. 986,259; Mar. 7; Sp. p. 1052; Gaz. vol. 164; p. 169.
Zelle, William C., St. Louis, Mo. Loading-machine. No. 1,005,494; Oct. 10; Sp. p. 2008; Gaz. vol. 171; p. 353.
Zeller, Melancthon E., Findlay, Ohio. Harness-saddle. No. 1,012,313; Dec. 19; Sp. p. 4302; Gaz. vol. 173; p. 738.
Zeller, Paul W., Buffalo, N. Y. Auxiliary horseshoe. No. 989,469; Apr. 11; Sp. p. 2484; Gaz. vol. 165; p. 421.
Zeller, Paul W., Buffalo, N. Y. Spring-support for wagon-shafts. No. 994,232; June 6; Sp. p. 268; Gaz. vol. 167; p. 46.
Zellers, Levi A., assignor of one-half to C. M. Coover, Lebanon, Pa. Non-slipping device. No. 1,001,184; Aug. 22; Sp. p. 4277; Gaz. vol. 169; p. 780.
Zellweger, John, St. Louis, Mo. Air-purifying machine. No. 985,963; Mar. 7; Sp. p. 440; Gaz. vol. 164; p. 71.
Zelman, Joseph, El Paso, Tex. Skirt-marker. No. 989,470; Apr. 11; Sp. p. 2486; Gaz. vol. 165; p. 421.
Zelnik, William, Philadelphia, Pa. Wind-wheel mechanism. No. 1,005,917; Oct. 17; Sp. p. 2954; Gaz. vol. 171; p. 535.
Zemborski, Dominick, Carthage, Ill. Shoemaker's tool. No. 995,755; June 20; Sp. p. 3643; Gaz. vol. 167; p. 636.
Zemborski, Dominick, Carthage, Ill. Burnishing-wheel. No. 1,000,872; Aug. 15; Sp. p. 3569; Gaz. vol. 169; p. 641.
Zempliner, Alfred, Vienna, Austria-Hungary. Device for rendering doors self-closing. No. 1,009,125; Nov. 21; Sp. p. 3331; Gaz. vol. 172; p. 589.
Zendron, Beniamino and G., Farr, Colo. Playing attachment for zithers and other stringed musical instruments. No. 984,176; Feb. 14; Sp. p. 1992; Gaz. vol. 163; p. 342.
Zendron, Giuseppe. (See Zendron, Beniamino and G.)
Zenke, Henry C., New York, N. Y. Ventilating system for factories, printing-offices, and the like. No. 980,471; Jan. 3; Sp. p. 632; Gaz. vol. 162; p. 104.
Zeppenfeld, Richard, St. Louis, Mo. Rail-joint. No. 993,936; May 30; Sp. p. 6648; Gaz. vol. 166; p. 1197.
Zering, Harry, Cincinnati, Ohio. Combination truck turntable and winch. No. 1,004,838; Oct. 3; Sp. p. 634; Gaz. vol. 171; p. 103.
Zering, Harry, Cincinnati, Ohio. Truck turn-table. No 1,005,495; Oct. 10; Sp. p. 2019; Gaz. vol. 171; p. 354.
Zerreiss, Jean. (See Valentin and Zerreiss.)
Zetschok, Max, and F. Seitz, San Francisco, Cal. Steam-generator. No. 1,003,852; Sept. 19; Sp. p. 3611; Gaz. vol. 170; p. 642.
Zetter, Julius, Freeburg, Ill. Mortising-machine. No. 984,057; Feb. 14; Sp. p. 1759; Gaz. vol. 163; p. 302.
Zevely, Edward A., Winston Salem, N. C. Pump. No. 982,168; Jan. 17; Sp. p. 4409; Gaz. vol. 162; p. 739.
Zevitas, Constantinos. (See MacKay, Vasil, assignor.)
Zherdeff, John, Omaha, Nebr. Calipers. No. 993,810; May 30; Sp. p. 6416; Gaz. vol. 166; p. 1156.
Zicard, Angelus, Leechburg, Pa. Match-box. No. 990,693; Apr. 25; Sp. p. 5239; Gaz. vol. 165; p. 904.
Ziebarth, Ernest H., Helena, Mont. Attachment for tobacco-pipes. No. 1,000,569; Aug. 15; Sp. p. 2913; Gaz. vol. 169; p. 534.
Ziegelmeyer, Michael J. (See Hill and Ziegelmeyer.)
Ziegenfuss, Friedrich, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Search-light projectile. No. 1,003,082; Sept. 12; Sp. p. 1970; Gaz. vol. 170; p. 342.
Ziegenfuss, Friedrich, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fuse-adjusting key. No. 1,005,762; Oct. 10; Sp. p. 2604; Gaz. vol. 171; p. 449.
Ziegenfuss, John A., Caney, Kans. Arc-lamp. No. 1,002,622; Sept. 5; Sp. p. 992; Gaz. vol. 170; p. 147.
Ziegler, Alfred A., Boston, Mass. Electric switch. No. 1,005,402; Oct. 10; Sp. p. 1810; Gaz. vol. 171; p. 323.
Ziegler, Alfred M., Boston, Mass. Suspender-buckle. No. 987,278; Mar. 21; Sp. p. 3218; Gaz. vol. 164; p. 581.
Ziegler, Edwin S., York, Pa. Storm-apron. No. 1,006,338; Oct. 17; Sp. p. 3904; Gaz. vol. 171; p. 682.
Ziegler, Eugene H. (See Manson and Blood, assignors.)
Ziegler, Jacob, Coffeyville, Kans. Neck-yoke center. No. 1,009,878; Nov. 28; Sp. p. 4957; Gaz. vol. 172; p. 895.
Ziegler, Joram, Harrisburg, Pa., assignor to Elliott-Fisher Company, New York, N. Y. Paper-folding machine. No. 1,003,023; Sept. 12; Sp. p. 1862; Gaz. vol. 170; p. 322.
Ziegler, Oliver D., Chicago, Ill. Sign-flasher. No. 992,468; May 16; Sp. p. 3525; Gaz. vol. 166; p. 633.
Zieman, Bertha, administratrix. (See Zieman, Herman F.)
Zieman, Herman F., deceased, Grand Junction, Colo.; B. Zieman, administratrix. Watering and spraying apparatus. No. 985,316; Feb. 28; Sp. p. 4460; Gaz. vol. 163; p. 803.
Ziemendorf, Fred W., Stevens Point, Wis. Bed-spring-bottom tightener. No. 1,002,108; Aug. 29; Sp. p. 6197; Gaz. vol. 169; p. 1121.
Zierath, Augustus C., assignor to Zierath Combination Drill Company, Los Angeles, Cal. Crown-block for well-drilling rigs. No. 1,002,952; Sept. 12; Sp. p. 1730; Gaz. vol. 170; p. 300.
Zierath Combination Drill Company. (See Zierath, Augustus C., assignor.)
Zietzke, Wilhelm A., Bozeman, Mont. Can-opener. No. 1,012,787; Dec. 26; Sp. p. 5311; Gaz. vol. 173; p. 946.
Zigler, J. I. (See Burkett, Thomas, assignor.)
Zilbersher, Abraham, New York, N. Y. Safety-razor. No. 1,008,769; Nov. 14; Sp. p. 2586; Gaz. vol. 172; p. 434.
Zilius, Jacob, Huntingdon, Pa. Car-coupling. No. 1,008,001; Nov. 7; Sp. p. 775; Gaz. vol. 172; p. 122.
Ziller, Robert L., Austin, Tex. Non-explosive oil-container. No. 1,011,395; Dec. 12; Sp. p. 2237; Gaz. vol. 173; p. 382.
Ziller, William, Austin, Tex. Hydrant-valve. No. 1,004,225; Sept. 26; Sp. p. 4519; Gaz. vol. 170; p. 800.
Zillhardt, Jacob, assignor to Tim & Co., Troy, N. Y. Fabric-carrying apparatus. No. 1,000,478; Aug. 15; Sp. p. 2698; Gaz. vol. 169; p. 501.
Zimmer, Conrad W., Buffalo, and G. W. Benjamin, assignors to Commercial Register Company, Rochester, N. Y. File leaf or holder for sales-slips, &c. No. 983,106; Jan. 31; Sp. p. 6432; Gaz. vol. 162; p. 1118.
Zimmer, Cyrus W., Fort Wayne, Ind. Incubator. No. 985,964; Mar. 7; Sp. p. 446; Gaz. vol. 164; p. 71.
Zimmer, Ernest L. B., assignor to Zimmer Vacuum Renovator Co., Minneapolis, Minn. Pneumatic cleaning apparatus. No. 985,965; Mar. 7; Sp. p. 449; Gaz. vol. 164; p. 72.
Zimmer, Frederick A., Covington, Ky. Poultry feed-box. No. 994,296; June 6; Sp. p. 397; Gaz. vol. 167; p. 68
Zimmer, Herbert. (See Zimmer, Le Roy L. and H.)
Zimmer, Karl L. V., Hamburg, Germany. Construction or preparation of road-surfaces and pavements. No. 1,010,209; Nov. 28; Sp. p. 5626; Gaz. vol. 172; p. 1007.
Zimmer, Karl L. V., Hamburg, Germany. Disinfectant. No. 1,010,210; Nov. 28; Sp. p. 5629; Gaz. vol. 172; p. 1007.
Zimmer, Le Roy L. and H., Massillon, Ohio. Snap-hook. No. 995,313; June 13; Sp. p. 2605; Gaz. vol. 167; p. 451.
Zimmer, Paul H. (See Knight, Zimmer, and Ford.)
Zimmer Vacuum Renovator Co. (See Zimmer, Ernest L. B., assignor.)
Zimmer, Wilson A., assignor, by mesne assignments, to The Ideal Peerless Manufacturing Company, Cleveland, Ohio. Shaft-packing. No. 990,943; May 2; Sp. p. 248; Gaz. vol. 166; p. 43.
Zimmerli, John, Providence, R. I. Flying-machine. No. 992,099; May 9; Sp. p. 2661; Gaz. vol. 166; p. 474.
Zimmerlin, Charles. (See Vanneman and Zimmerlin.)
Zimmerman, Charles M., Cincinnati, Ohio. Glue-heater. No. 989,101; Apr. 11; Sp. p. 1701; Gaz. vol. 165; p. 296.
Zimmerman, Charles M., Cincinnati, Ohio. Glue-melting. No. 1,009,616; Nov. 21; Sp. p. 4413; Gaz. vol. 172; p. 760.
Zimmerman, Charles P., assignor to The Dayton Pitless Scale Company, Dayton, Ohio. Weighing-scale. No. 998,066; July 18; Sp. p. 3179; Gaz. vol. 168; p. 577.

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Zimmerman, Frank L. (See Brown, Layton, assignor.)
Zimmerman, Franklyn M., Pittsburg, Pa. Elevating and lowering device. No. 986,888; Mar. 14; Sp. p. 2410; Gaz. vol. 164; p. 417.
Zimmerman, Harry E., Hartstown, Pa. Rail-fastening device. No. 1,009,007; Nov. 14; Sp. p. 3078; Gaz. vol. 172; p. 511.
Zimmerman, Lloyd, Ducor, Cal. Glazier's tool. No. 997,172; July 4; Sp. p. 1216; Gaz. vol. 168; p. 197.
Zimmerman, Louis E., Pekin, Ill. Paper-holder for scales. No. 1,006,892; Oct. 24; Sp. p. 5166; Gaz. vol. 171; p. 907.
Zimmerman, Martin B., assignor to Columbia Company, Lewisburg, Pa. Machine for inserting diagonal strands in woven-cane fabrics. No. 1,011,701; Dec. 12; Sp. p. 2937; Gaz. vol. 173; p. 491.
Zimmerman, Robert M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,008,443; Nov. 14; Sp. p. 1845; Gaz. vol. 172; p. 318.
Zimmerman, Robert M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,008,444; Nov. 14; Sp. p. 1848; Gaz. vol. 172; p. 318.
Zimmerman, Robert M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,009,617; Nov. 21; Sp. p. 4414; Gaz. vol. 172; p. 761.
Zimmerman, Robert M., Montreal, Quebec, Canada, assignor to National Dump Car Company, Chicago, Ill. Dump-car. No. 1,009,618; Nov. 21; Sp. p. 4416; Gaz. vol. 172; p. 761.
Zimmerman, William G., Everett, Wash. Edger. No. 995,756; June 20; Sp. p. 3644; Gaz. vol. 167; p. 636.
Zimmerman, William G., Everett, Wash. Cutter-head for edgers. No. 996,034; June 20; Sp. p. 4215; Gaz. vol. 167; p. 732.
Zimmermann, Marie, Brooklyn, N. Y. Device for use with rings. No. 984,058; Feb. 14; Sp. p. 1762; Gaz. vol. 163; p. 303.
Zimmermann, William F., Newark, N. J. Hob-cutter. No. 1,003,024; Sept. 12; Sp. p. 1865; Gaz. vol. 170; p. 322.
Zimmermann, William F., Newark, N. J. Helical cutter. No. 1,003,130; Sept. 12; Sp. p. 2083; Gaz. vol. 170; p. 359.
Zimmers, Abraham M., Baltimore, Md. Flying-machine. No. 1,001,185; Aug. 22; Sp. p. 4278; Gaz. vol. 169; p. 781.
Zimmers, Abraham M., Baltimore, Md. Oyster-punching machine. No. 1,007,411; Oct. 31; Sp. p. 6282; Gaz. vol. 171; p. 1143.
Zindler, Adolf, Berlin, Germany. Briquet and making same. No. 1,000,479; Aug. 15; Sp. p. 2702; Gaz. vol. 169; p. 501.
Zink, Luzian, Detroit, Mich. Adjustment for brake-shoes. No. 996,823; July 4; Sp. p. 458; Gaz. vol. 168; p. 76.
Zinn, Daniel E., West Winfield, Pa. Electric signal. No. 1,004,518; Sept. 26; Sp. p. 5106; Gaz. vol. 170; p. 899.
Zinsmayer, Mathias, Cleveland, Ohio. Ladder scaffold-bracket. No. 984,059; Feb. 14; Sp. p. 1764; Gaz. vol. 163; p. 303.
Ziolkowski, Konstantin, Kalouga, Russia. Envelop for dirigible aerostats and other purposes. No. 1,009,126; Nov. 21; Sp. p. 3332; Gaz. vol. 172; p. 589.
Zipfel, Edward C., Omaha, Nebr. Means for packing freight. No. 1,011,702; Dec. 12; Sp. p. 2941; Gaz. vol. 173; p. 491.
Zipp, John, assignor to The Cahill Iron Works, Chattanooga, Tenn. Dredger for powder-form material. No. 1,000,873; Aug. 15; Sp. p. 3570; Gaz. vol. 169; p. 641.
Zippel, Charles F. W., Ridgewood, N. Y. Detachable roller and ice skate. No. 1,010,105; Nov. 28; Sp. p. 5422; Gaz. vol. 172; p. 972.
Zipper, Emil, Vienna, Austria-Hungary. Cloth measuring and cutting machine. No. 990,026; Apr. 18; Sp. p. 3712; Gaz. vol. 165; p. 644.
Zippler, Francis J., Avalon, Pa. Blast-furnace. No. 986,792; Mar. 14; Sp. p. 2195; Gaz. vol. 164; p. 382.
Zippler, Francis J., Avalon, Pa. Furnace. No. 998,940; July 25; Sp. p. 5146; Gaz. vol. 168; p. 919.
Ziringer, Roscoe C., assignor of two-thirds to M. G. Leslie and W. Saul, Pittsburgh, Pa. Window-cleaning device. No. 1,005,918; Oct. 17; Sp. p. 2956; Gaz. vol. 171; p. 535.
Zirwas, Henry. (See Kleber, Peter, assignor.)
Zisch, George J., Newark, assignor to T. B. Eiker, Asbury Park, N. J. Carbureter. No. 1,010,714; Dec. 5; Sp. p. 702; Gaz. vol. 173; p. 111.
Zittle, Orion L., and A. Konrad, Denver, Colo. Envelop-moistener. No. 989,685; Apr. 18; Sp. p. 2989; Gaz. vol. 165; p. 526.
Zittlosen Manufacturing Co. (See Meyer, Adolph E., assignor.)
Zix, Carl E., Berlin, Germany, assignor to General Electric Company. Motor-controlling device. No. 996,388; June 27; Sp. p. 5047; Gaz. vol. 167; p. 889.
Zock, August E., assignor to The Waterville Tractor Company, Waterville, Ohio. Flexible joint for shafts. No. 981,736; Jan. 17; Sp. p. 3482; Gaz. vol. 162; p. 590.
Zock, August E., assignor to The Waterville Tractor Company, Waterville, Ohio. Agricultural tractor. No. 992,100; May 9; Sp. p. 2664; Gaz. vol. 166; p. 474.
Zoerb, Charles P., Napa, Cal. Filing-case. No. 1,005,403; Oct. 10; Sp. p. 1812; Gaz. vol. 171; p. 323.
Zola, Andrew, Pittsburgh, Pa. Safety-lock. No. 1,011,703; Dec. 12; Sp. p. 2943; Gaz. vol. 173; p. 492.
Zollinger, Adalbert, Leipzig-Eutritzsch, assignor to Popper & Company, Leipzig, Germany. String for musical instruments. No. 980,472; Jan. 3; Sp. p. 634; Gaz. vol. 162; p. 104.
Zollinger, Adalbert, Leipzig-Eutritzsch, assignor to Popper & Co., Leipzig, Germany. Music-recording and automatic playing device for organs and like instruments. No. 1,004,839; Oct. 3; Sp. p. 636; Gaz. vol. 171; p. 103.
Zolper, Wilhelm, Wilmington, Del. Toy and lung-tester. No. 988,057; Mar. 28; Sp. p. 4926; Gaz. vol. 164; p. 874.
Zook, John W., and C. G. Krause, Arkansas City, Kans. Churn. No. 994,967; June 13; Sp. p. 1927; Gaz. vol. 167; p. 338.
Zouri Manufacturing Company. (See Murnane, Daniel J., assignor.)
Zsarkó, Josef, Budapest, Austria-Hungary. Lubricator. No. 993,433; May 30; Sp. p. 5587; Gaz. vol. 166; p. 1025.
Zuberbuhler, Rudolph M., Beaver Falls, Pa. Folding basket. No. 1,012,314; Dec. 19; Sp. p. 4304; Gaz. vol. 173; p. 738.
Zucco, Pierre, New York, N. Y. Collapsible form. No. 980,389; Jan. 3; Sp. p. 429; Gaz. vol. 162; p. 74.
Zuck, Nicholas, assignor to Improved Cold Water Shrinking Machine Company, Rochester, N. Y. Drying-rack. No. 1,007,763; Nov. 7; Sp. p. 248; Gaz. vol. 172; p. 40.
Zuckerman, Morris, assignor of one-half to M. L. Chasins, New York, N. Y. Medicinal cup. No. 999,289; Aug. 1; Sp. p. 181; Gaz. vol. 169; p. 35.
Zug, Benjamin E. (See Whitmer, John C., assignor.)
Zum Walde, Henry, De Mossville, Ky. Harrow. No. 983,331; Feb. 7; Sp. p. 162; Gaz. vol. 163; p. 28.
Zumpe, Arthur E., Englewood, N. J. Type-writer-platen-checking device. No. 983,340; Feb. 7; Sp. p. 175; Gaz. vol. 163; p. 31.
Zundel, Gustave A., assignor to J. H. Bunnell and Company, New York, N. Y. Telegraphic instrument. No. 1,000,314; Aug. 8; Sp. p. 2317; Gaz. vol. 169; p. 411.
Zunino, Nicola, Boston, Mass. Combination milk and mail box. No. 988,751; Apr. 4; Sp. p. 995; Gaz. vol. 165; p. 158.
Zuver, Clyde R., Maricopa, Cal. Pitman. No. 1,011,101; Dec. 5; Sp. p. 1540; Gaz. vol. 173; p. 244.
Zvěřina, Jan, Montreal, Quebec, Canada. Roller-skate. No. 988,533; Apr. 4; Sp. p. 519; Gaz. vol. 165; p. 83.
Zweigbergk, Thorsten von, Southport, England, assignor to General Electric Company. Protection of high-tension direct-current motors in series. No. 1,006,619; Oct. 24; Sp. p. 4561; Gaz. vol. 171; p. 813.
Zwerdling, Lewis C., and S. A. Green, Brooklyn, N. Y. Life-saving device. No. 1,002,109; Aug. 29; Sp. p. 6199; Gaz. vol. 169; p. 1121.
Zwicker, Julius G., Mexico, Mexico. Mold for concrete flooring members. No. 1,007,623; Oct. 31; Sp. p. 6752; Gaz. vol. 171; p. 1214.
Zwicker, Julius G., Mexico, Mexico. Concrete flooring construction. No. 1,007,624; Oct. 31; Sp. p. 6754; Gaz. vol. 171; p. 1214.
Zwiker, Jacob F., Toledo, Ohio. Throttle control for fluid-operated hammers. No. 990,944; May 2; Sp. p. 250; Gaz. vol. 166; p. 43.
Zwingenberger, Otto K., New York, N. Y. Medicinal composition containing oil. No. 1,012,788; Dec. 26; Sp. p. 5312; Gaz. vol. 173; p. 946.
Zwosta, Michael J., and G. Soehngen, New York, N. Y. Attachment for barrel-taps. No. 984,460; Feb. 14; Sp. p. 2595; Gaz. vol. 163; p. 438.
Zybach, Edward, and G. Braun, Duncan, Nebr. Power-transmission attachment for automobiles. No. 982,756; Jan. 24; Sp. p. 5651; Gaz. vol. 162; p. 970.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

A. B. Stove Company. (See Alexander and Berry, assignors.)
A. F. Meisselbach & Brother. (See Catucci, Pliny, assignor.)
A. H. Heisey & Co. (See Sanford, Andrew J., assignor.)
Aaron, Max N., and C. Strickhouser, assignors, by mesne assignments, to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Lace-edging. No. 41,414; May 30; Gaz. vol. 166; p. 1263.
Aaron, Max N., and C. Strickhouser, assignors to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Lace edging. Nos. 41,512–13; June 20; Gaz. vol. 167; p. 742.
Aaron, Max N., and S. N. Goodman, assignors to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Lace edging. Nos. 41,514–15; June 20; Gaz. vol. 167; p. 743.
Abel, Edward C., New York, N. Y. Stone-setting for finger-rings or similar articles. No. 41,963; Dec. 12; Gaz. vol. 173; p. 560.
Acetylene Apparatus Manufacturing Company. (See Rose, Paul A., assignor.)
Albright, Andrew, Jr., Eatontown, N. J. Box. No. 41,819; Oct. 3; Gaz. vol. 171; p. 199.
Alexander, Henry, New York, N. Y., assignor to The Universal Brush Company, Troy, N. Y. Brush-display stand. No. 41,638; Aug. 1; Gaz. vol. 169; p. 181.
Alexander, John A., and F. K. Berry, assignors to A. B. Stove Company, Battle Creek, Mich. Stove-door. No. 41,618; July 25; Gaz. vol. 168; p. 1010.
Alexander, John A., and F. K. Berry, assignors to A. B. Stove Company, Battle Creek, Mich. Gas-range. Nos. 41,619–20; July 25; Gaz. vol. 168; p. 1010.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Handle for spoons, forks, or similar articles. No. 41,461; June 13; Gaz. vol. 167; p. 493.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Handle for spoons, forks, or similar articles. No. 41,633; Aug. 1; Gaz. vol. 169; p. 180.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Handle for spoons, forks, or similar articles. No. 41,738; Sept. 5; Gaz. vol. 170; p. 215.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Handle for spoons, forks, or similar articles. No. 41,783; Sept. 19; Gaz. vol. 170; p. 687.
Allen, Grosvenor N., assignor to Oneida Community, Limited, Oneida, N. Y. Handle for spoons, forks, or similar articles. No. 41,831; Oct. 10; Gaz. vol. 171; p. 459.
Allen, Winthrop D., Washington, D. C. Motor-vehicle body. No. 41,949; Nov. 28; Gaz. vol. 172; p. 1076.
Alvord, Danforth F., Winsted, Conn. Grape-fruit and orange knife. No. 41,318; Apr. 18; Gaz. vol. 165; p. 708.
Alvord, John J., and F. Karsitz, Bridgeport, Conn. Smoker-stand. No. 41,537; July 4; Gaz. vol. 168; p. 228.
American Can Company. (See Marcuse, Isaac J., assignor.)
American Cut Glass Company. (See Anderson, William C., assignor.)
American Graphophone Company. (See Yerkes, Hulbert A., assignor.)
American Lead Pencil Company. (See Fornander, Alfred, assignor.)
American Optical Company. (See Bugbee, Lucian W., assignor.)
American Sanitary Works. (See Tilden, Bert O., assignor.)
Amsler, Walter O., assignor to Auto-Merchandising Company of Pittsburgh, Pennsylvania, Pittsburg, Pa. Casing for dispensing apparatus. No. 41,790; Sept. 19; Gaz. vol. 170; p. 688.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Wall-plate. No. 41,386; May 16; Gaz. vol. 166; p. 735.
Andersen, Lauritz W., assignor to The Plume & Atwood Manufacturing Company, Waterbury, Conn. Ceiling-plate. No. 41,387; May 16; Gaz. vol. 166; p. 735.
Anderson, Frank B., Cleveland, Ohio. Casing for filters. No. 41,321; Apr. 18; Gaz. vol. 165; p. 709.
Anderson, Helen C., Pensacola, Fla. Image. No. 41,802; Sept. 26; Gaz. vol. 170; p. 911.
Anderson, William C., assignor to American Cut Glass Company, Lansing, Mich. Cut-glass vessel or similar article. No. 41,413; May 30; Gaz. vol. 166; p. 1263.
Apple, Vincent G., Dayton, Ohio. Vehicle-lamp. No. 41,611; July 25; Gaz. vol. 168; p. 1008.
Arcade Manufacturing Company. (See Morgan, Edgar H., assignor.)
Archibald, David H., New York, assignor to Eberhard Faber Pencil Company, Brooklyn, N. Y. Display-rack. No. 41,087; Jan. 10; Gaz. vol. 162; p. 525.
Argo Electric Vehicle Company, The. (See Huss, Theodore, assignor.)
Armstrong Cork Company. (See Humphreys, Charles F., assignor.)
Astruck, John H., New York, N. Y. Bowl. No. 41,535; July 4; Gaz. vol. 168; p. 228.
Astruck, John H., New York, N. Y. Stand. No. 41,536; July 4; Gaz. vol. 168; p. 228.
Astruck, John H., New York, N. Y. Base-plate for standards or similar articles. No. 41,686; Aug. 15; Gaz. vol. 169; p. 680.
Atwater Manufacturing Company. (See Mayer, George M., assignor.)
Aubry Schwahn, Matilda R., New York, N. Y. Jar. No. 41,702; Aug. 22; Gaz. vol. 169; p. 923.
Aubry Sisters. (See Richards, Lewis F., assignor.)
Aufiero, Emanuel, Brooklyn, N. Y. Warning-signal. No. 41,747; Sept. 5; Gaz. vol. 170; p. 217.
Aufiero, Emanuel, Brooklyn, N. Y. Casing and bracket for diaphragm-actuating signals. No. 41,791; Sept. 19; Gaz. vol. 170; p. 688.
Austin, Herbert A., Boston, Mass. Display and dispensing cabinet. No. 41,371; May 9; Gaz. vol. 166; p. 493.
Auto-Merchandising Company of Pittsburgh, Pennsylvania. (See Amsler, Walter O., assignor.)
Automatic Electric Company. (See Blessing, John G., assignor.)
Averns, Raymond H., assignor to J. & J. Cash, Limited, Coventry, England. Braid or trimming. Nos. 42,000–12; Dec. 19; Gaz. vol. 173; pp. 833–5.
B. F. Goodrich Company, The. (See Pearce, William, assignor.)
Baden-Powell, Robert, Westminster, London, England, assignor to Boy Scouts of America, New York, N. Y. Badge. No. 41,412; May 30; Gaz. vol. 166; p. 1262.
Badger Brass Manufacturing Company, The. (See Welles, Richard H., assignor.)
Bailey, Charles A., Cromwell, Conn., assignor, by mesne assignments, to A. E. Cudworth and F. W. Crandall, receivers. Grating-door for toy banks. No. 41,326; Apr. 25; Gaz. vol. 165; p. 952.
Bailey, Charles A., Cromwell, Conn., assignor to A. E. Cudworth and F. W. Crandall, receivers for The Hardware & Woodenware Manufacturing Company, New York, N. Y. Toy money-box. No. 41,696; Aug. 22; Gaz. vol. 169; p. 922.
Bailey, Charles A., Cromwell, Conn., assignor, by mesne assignments, to A. E. Cudworth and F. W. Crandall, receivers, New York, N. Y. Toy bank. No. 41,947; Nov. 28; Gaz. vol. 172; p. 1075.
Bailey, John F. (See Brettell and Bailey.)
Ball, George E., assignor to Reed & Barton Corporation, Taunton, Mass. Teapot or similar article. No. 41,985; Dec. 19; Gaz. vol. 173; p. 829.
Balogh, Frank, Elgin, Ill. Cuspidor. No. 41,857; Oct. 24; Gaz. vol. 171; p. 960.
Barker, Walter G. (See Strassburger, Nelson, and Barker.)
Bartel, William P., Waltham, Mass. Lacing-hook. No. 41,123; Jan. 24; Gaz. vol. 162; p. 978.
Baumann, Robert. (See Wurmb and Baumann.)
Beach, Harry L., Coshocton, Ohio. Bottle-opener. No. 41,807; Sept. 26; Gaz. vol. 170; p. 912.
Bechtold, William S., Newark, N. J. Barrette or comb. No. 41,122; Jan. 24; Gaz. vol. 162; p. 978.
Becker, Caspar, assignor to Becker, Smith & Page, Inc., Philadelphia, Pa. Wall-paper. No. 41,502; June 20; Gaz. vol. 167; p. 740.
Becker, Smith & Page. (See Becker, Caspar, assignor.)
Becvar, Joseph, Cleveland, assignor to The Foster Stove Company, Ironton, Ohio. Stove. No. 41,373; May 9; Gaz. vol. 166; p. 494.
Belknap, William L., Bridgeport, Conn. Valve-body. No. 41,636; Aug. 1; Gaz. vol. 169; p. 181.
Bender, Theodore, assignor to Roger Williams Silver Company, Providence, R. I. Vegetable-dish. No. 41,766; Sept. 12; Gaz. vol. 170; p. 457.
Berkof, Jacob W. (See Collins, William A., assignor.)
Berry, Frank K. (See Alexander and Berry.)
Bertolotti, Carlo. (See Orioli and Bertolotti.)
Betts, Charles L., assignor to R. E. Dietz Company, New York, N. Y. Lamp. No. 41,267; Mar. 28; Gaz. vol. 164; p. 954.
Bevan, William W., Melrose Highlands, Mass. Candy-tongs. Nos. 41,294–5; Apr. 11; Gaz. vol. 165; p. 453.
Bienenzuchs, Samuel, New York, N. Y. Watch-fob. No. 41,284; Apr. 4; Gaz. vol. 165; p. 227.
Bigelow Carpet Company, The. (See Brown, William F., assignor.)
Bigelow Carpet Company, The. (See Elliot, William A., assignor.)

Alphabetical list of patentees of designs—Continued.

Bigelow Carpet Company. (See Jones, Leslie W., assignor.)
Bigelow Carpet Company. (See Loudon, Milton R., assignor.
Bigelow Carpet Company, The. (See McKiernan, Joseph, assignor.)
Bigelow Carpet Company, The. (See Merry, John, assignor.)
Bigelow Carpet Company. (See Moffat, John B., assignor.)
Bigelow Carpet Company. (See Pardoe, William A., assignor.)
Bigelow Carpet Company, The. (See Reith, William G., assignor.)
Bigelow Carpet Company. (See Riddle, Robert F., assignor.)
Bigelow Carpet Company, The. (See Sauer, Emil G., assignor.)
Bigelow Carpet Company, The. (See Schindler, Francis, assignor.)
Bigelow Carpet Company. (See Spring, John, assignor.)
Bigelow Carpet Company. (See Spring, William A., assignor.)
Bigelow Carpet Company, The. (See Trik, Ernest W., assignor.)
Bigelow Carpet Company. (See Wishart, Joseph, assignor.)
Bigelow Carpet Company. (See Witzel, John H., assignor.)
Bigney, Harold O., assignor to S. O. Bigney, Attleboro, Mass. Cigarette-case. No. 41,806; Sept. 26; Gaz. vol. 170; p. 912.
Bigney, Harold O., assignor to S. O. Bigney, Attleboro, Mass. Cigarette-case. No. 41,858; Oct. 24; Gaz. vol. 171; p. 960.
Bigney, Sidney O. (See Bigney, Harold O., assignor.)
Birkin, Charles W., Nottingham, England. Levers lace. No. 41,953; Nov. 28; Gaz. vol. 172; p. 1076.
Bixler, Lewis S., Kenton, Ohio, assignor to The Hardware & Woodenware Manufacturing Company, New York, N. Y. Toy bank or similar article. No. 41,697; Aug. 22; Gaz. vol. 169; p. 922.
Bixler, Lewis S., Kenton, Ohio, assignor to Hardware & Woodenware Manufacturing Company, New York, N. Y. Toy bank or similar article. No. 41,948; Nov. 28; Gaz. vol. 172; p. 1076.
Blacklidge, Rollin H., Alhambra, Cal. Lamp-post. No. 41,874; Oct. 31; Gaz. vol. 171; p. 1232.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. No. 41,193; Feb. 21; Gaz. vol. 163; p. 708.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. Nos. 41,331–2; Apr. 25; Gaz. vol. 165; pp. 952–3.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. No. 41,565; July 11; Gaz. vol. 168; p. 500.
Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. No. 41,594; July 18; Gaz. vol. 168; p. 769.
Blessing, John G., assignor to Automatic Electric Company, Chicago, Ill. Telephone desk-stand. No. 41,794; Sept. 19; Gaz. vol. 170; p. 689.
Bloch, Leon, San Francisco, Cal. Vehicle-lamp and reflector. No. 41,347; May 2; Gaz. vol. 166; p. 229.
Bogdanoff, Israel, Philadelphia, Pa. Clock-case. No. 41,604; July 25; Gaz. vol. 168; p. 1007.
Boggs, Atwood L., Boston, Mass. Cooler. No. 41,748; Sept. 5; Gaz. vol. 170; p. 217.
Booth, James S., Detroit, Mich. Motor-cycle frame. No. 41,729; Aug. 29; Gaz. vol. 169; p. 1160.
Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. No. 41,724; Aug. 29; Gaz. vol. 169; p. 1158.
Booth, Kraft, assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Artificial-light shade. No. 41,893; Nov. 7; Gaz. vol. 172; p. 233.
Borst, Charles. (See Martin and Borst.)
Bott, George J., Columbus, Ohio. Combined bridge-hook and chalk-holder. No. 41,469; June 13; Gaz. vol. 167; p. 494.
Bowlen, William C., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Knife. No. 42,041; Dec. 26; Gaz. vol. 173; p. 1054.
Boy Scouts of America. (See Baden-Powell, Robert, assignor.)
Bozsik, Martin, Hibbing, Minn. Cuspidor. No. 41,787; Sept. 19; Gaz. vol. 170; p. 687.
Brady, Thomas H., New Britain, Conn. Handle for knife-switches. No. 41,731; Aug. 29; Gaz. vol. 169; p. 1160.
Brandes, Moses D., Birmingham, Ala. Watch-charm or similar article. No. 41,944; Nov. 28; Gaz. vol. 172; p. 1075.
Branning, Dallas J., Halley, Pa. Fan-scalloped dish. No. 41,205; Feb. 28; Gaz. vol. 163; p. 958.
Brawner, Harry O., Roland Park, Md. Bottle. No. 41,238; Mar. 14; Gaz. vol. 164; p. 486.
Brettell, Oliver C. G., Wilkinsburg, and J. F. Bailey, Edgewood, Pa. Urinal. No. 41,401; May 23; Gaz. vol. 166; p. 966.
Bromley, John H., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 41,527–8; June 27; Gaz. vol. 167; pp. 962–3.
Bromley & Sons, John. (See Bromley, John H., assignor.)
Bromley & Sons, John. (See Petzoid, Adolph, assignor.)
Bromley & Sons, John. (See Wilson, Clarence L., assignor.)
Brown, Frank A., Wilmette, Ill. Jar. No. 41,635; Aug. 1; Gaz. vol. 169; p. 181.
Brown, James S., assignor to The Hartford Carpet Corporation, Thompsonville, Conn. Carpet or rug. Nos. 41,957–8; Dec. 5; Gaz. vol. 173; pp. 266–7.
Brown, William F., New York, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 41,107–8; Jan. 17; Gaz. vol. 162; pp. 764–5.
Brown, William F., New York, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 41,128–30; Jan. 24; Gaz. vol. 162; p. 979.
Brown, William F., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,403; May 23; Gaz. vol. 166; p. 966.
Brown, William F., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,447; June 6; Gaz. vol. 167; p. 220.
Brown, William F., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,755; Sept. 5; Gaz. vol. 170; p. 219.
Bruguier Chemical Co. (See Thayer, Emma R. L., assignor.)
Brunswick-Balke-Collender Co., The. (See Hine, Cicero, assignor.)
Buffalo Radiator Company. (See McKeown, William C., assignor.)
Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Instrument for detecting internal strains in lenses. No. 41,835; Oct. 10; Gaz. vol. 171; p. 460.
Buholzer, Fridolin A., Toronto, Ontario, Canada. Perfume-vial. No. 41,299; Apr. 11; Gaz. vol. 165; p. 454.
Bunny, William D., Troy, N. Y. Floor-polisher. No. 41,495; June 20; Gaz. vol. 167; p. 739.
Burke, Lena, Leominster, Mass. Double collar-button. No. 41,982; Dec. 19; Gaz. vol. 173; p. 829.
Burley & Tyrrell Company. (See Heinrichs, Mabel W., assignor.)
Butler, Walter M., South Bend, Ind. Pillow-top. No. 41,999; Dec. 19; Gaz. vol. 173; p. 832.
C. Dorflinger & Sons. (See Northwood, Charles O., assignor.)
Cahalane, Daniel C., New York, N. Y. Combined pin-tray and pen-rack. No. 41,234; Mar. 14; Gaz. vol. 164; p. 485.
Calautti, Saverio, New York, N. Y. Automobile-horn. No. 41,897; Nov. 7; Gaz. vol. 172; p. 234.
Caldwell, Edward F., New York, N. Y. Paper-cutter. No. 41,423; June 6; Gaz. vol. 167; p. 216.
Callaghan, Thomas F., Chicago, Ill. Shelf-paper. No. 41,642; Aug. 1; Gaz. vol. 169; p. 182.
Callowhill, Percy J., Attleboro, Mass. Badge or emblem. No. 41,653; Aug. 8; Gaz. vol. 169; p. 427.
Calvert, Frank W., Narberth, assignor to The Charles E. Hires Company, Philadelphia, Pa. Liquid-dispensing fountain. No. 41,365; May 9; Gaz. vol. 166; p. 492.
Cameron, John S., McKeesport, Pa. Combined knife and fork. No. 41,767; Sept. 12; Gaz. vol. 170; p. 457.
Cameron, William H., Toledo, Ohio. Rear window for automobile-tops. No. 41,684; Aug. 15; Gaz. vol. 169; p. 680.
Cameron, William H., Toledo, Ohio. Side lamp-bracket for automobiles. No. 41,742; Sept. 5; Gaz. vol. 170; p. 216.
Cameron, William H., assignor to The Willys-Overland Automobile Company, Toledo, Ohio. Combined radiator, lamp, and fender bracket for automobiles. No. 41,774; Sept. 12; Gaz. vol. 170; p. 458.
Campbell, Sterling H., St. Louis, Mo. Spoon. No. 41,588; July 18; Gaz. vol. 168; p. 768.
Carlson, Carl J., Blue Island, Ill. Combined shoe horn and buttoner. No. 41,298; Apr. 11; Gaz. vol. 165; p. 454.
Carpenter, Ralph G. (See Goebst and Carpenter.)
Casey-Hedges Company, The. (See Stimmel, Frederick C., assignor.)
Catucci, Pliny, Newark, N. J., assignor to A. F. Meisselbach & Brother. Phonograph-horn support. No. 41,499; June 20; Gaz. vol. 167; p. 740.
Charles E. Hires Company, The. (See Calvert, Frank W., assignor.)
Cheney Brothers. (See Dupont, Paul, assignor.)
Cheney Brothers. (See Fauser, Gustave M., assignor.)
Cheney Brothers. (See Fowler, Harriet W., assignor.)
Cheney Brothers. (See Gattiker, Robert, assignor.)
Cheney Brothers. (See Mouton, Paul, assignor.)
Cheney Brothers. (See Olsson, Anna, assignor.)
Cheney Brothers. (See Scheidecker, Paul and F., assignors.)
Cheney Brothers. (See Sins, Emile, assignor.)

Alphabetical list of patentees of designs—Continued.

Child, Charles H., Muskogee, Okla. Badge or similar article. No. 41,691; Aug. 22; Gaz. vol. 169; p. 921.
Cigol, Frank A., Paterson, N. J. Ball. No. 41,920; Nov. 7; Gaz. vol. 172; p. 238.
Cincinnati Coffin Company, The. (See Zinser, Paul R., assignor.)
Clark, Melville A., Syracuse, N. Y. Harp. No. 41,987; Dec. 19; Gaz. vol. 173; p. 830.
Clarke, John Q., Crawfordsville, Ind. Animal-trough. No. 41,352; May 2; Gaz. vol. 166; p. 230.
Close, Stuart M., assignor to Hampden Glazed Paper & Card Company, Holyoke, Mass. Ornamented paper. No. 41,099; Jan. 17; Gaz. vol. 162; p. 763.
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 41,213; Mar. 7; Gaz. vol. 164; p. 230.
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 41,235; Mar. 14; Gaz. vol. 164; p. 485.
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Back of brushes or similar articles. Nos. 41,264–5; Mar. 28; Gaz. vol. 164; p. 954.
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. Nos. 41,424–5; June 6; Gaz. vol. 167; p. 216.
Codman, William C., assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 41,516; June 27; Gaz. vol. 167; p. 961.
Cohr, Joseph J., New York, N. Y. Automobile-horn. No. 41,154; Feb. 7; Gaz. vol. 163; p. 213.
Cole, Ernest C., Chicago, Ill. Stove. No. 41,086; Jan. 10; Gaz. vol. 162; p. 525.
Collins, William A., assignor of one-half to J. W. Berkof, New York, N. Y. Kite. No. 41,189; Feb. 21; Gaz. vol. 163; p. 707.
Colt, Alva M., Batavia, N. Y. C-clamp body. No. 41,287; Apr. 4; Gaz. vol. 165; p. 227.
Conner, Herschel M., Chicago, Ill., assignor to Universal Hydro-Carbon Gas Company. Lighting-fixture. No. 41,348; May 2; Gaz. vol. 166; p. 230.
Conrad, Henry J., and W. F. Schmidt, Detroit, Mich. Vending-machine casing. No. 41,809; Sept. 26; Gaz. vol. 170; p. 912.
Consolidated Lamp & Glass Co. (See McAfee, Hugh, assignor.)
Cook, Don J. (See Lewis and Cook.)
Cornish, Harry S., New York, N. Y. Faucet. No. 41,840; Oct. 10; Gaz. vol. 171; p. 461.
Costan, Robert E. L. (See Patrick and Costan.)
Coxwell, Washington G., Bradley, Ala. Gravestone. No. 41,446; June 6; Gaz. vol. 167; p. 220.
Crandall, F. W., *et al.*, receivers. (See Bailey, Charles A., assignor.)
Crane & Breed Manufacturing Company, The. (See Blesch, Charles, assignor.)
Crane, Raymond E., Cameron, W. Va. Water-tank. No. 41,220; Mar. 7; Gaz. vol. 164; p. 231.
Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Haff, New York, N. Y. Spoon, fork, or similar article. No. 41,740; Sept. 5; Gaz. vol. 170; p. 215.
Cudworth, A. E., *et al.*, receivers. (See Bailey, Charles A., assignor.)
Curtiss, George E., assignor to Landers, Frary and Clark, New Britain, Conn. Handle of forks, spoons, or similar articles. No. 41,561; July 11; Gaz. vol. 168; p. 499.
Dalton, William H., West Hoboken, N. J. Pencil-display stand. No. 41,538; July 4; Gaz. vol. 168; p. 229.
Dammann, Henry C., Freeport, Ill. Match-safe. No. 41,605; July 25; Gaz. vol. 168; p. 1007.
Damon, Russell H. (See Driscoll, Dennis A., assignor.)
Davids, Joseph. (See Heister and Davids.)
Davis, Bethuel M., assignor to C. C. Travis, Chicago, Ill. Frame for change-transfer devices. No. 41,126; Jan. 24; Gaz. vol. 162; p. 978.
Davis Sewing Machine Company, The. (See Parmelee, John B., assignor.)
Dawley, Herbert M., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Vehicle-lamp. No. 41,706; Aug. 22; Gaz. vol. 169; p. 924.
De Lukacsevics, Charles, New York, N. Y. Siphon-head. No. 41,432; June 6; Gaz. vol. 167; p. 218.
De Marzo, Guiseppe, Brooklyn, N. Y. Automobile-horn. No. 41,703; Aug. 22; Gaz. vol. 169; p. 923.
Dean Electric Company, The. (See Dean, William W., assignor.)
Dean, John R., New Britain, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 41,066; Jan. 3; Gaz. vol. 162; p. 251.
Dean, William W., assignor to The Dean Electric Company, Elyria, Ohio. Telephone desk-stand. No. 41,616; July 25; Gaz. vol. 168; p. 1010.
Demuth, Leopold, New York, N. Y. Mouthpiece for tobacco-pipes. No. 41,834; Oct. 10; Gaz. vol. 171; p. 459.
Diagraph Company, The. (See Hartog, Stephen D., assignor.)
Dickelman Manufacturing Company, The. (See Vogan, Frank M., assignor.)
Dodge, James M., assignor to Link-Belt Company, Chicago, Ill. Drive-chain. No. 41,351; May 2; Gaz. vol. 166; p. 230.
Dominick & Haff. (See Crowell, Gilbert L., Jr., assignor.)
Doolittle, Laura L., New Haven, Conn. Paper-weight and timepiece. No. 41,554; July 11; Gaz. vol. 168; p. 497.
Dorgen, William T., Saginaw, Mich. Tire-tread. No. 41,994; Dec. 19; Gaz. vol. 173; p. 831.
Doten-Dunton Desk Co. (See Dunton, Kervin R., assignor.)
Dowse, William B. H., Newton, Mass., assignor to Reed & Barton Company, New York, N. Y. Spoon, fork, or similar article. No. 41,741; Sept. 5; Gaz. vol. 170; p. 216.
Doyle, John, New York, N. Y. Gas-lighting fixture. No. 41,682; Aug. 15; Gaz. vol. 169; p. 680.
Dressel, Frederick W., New York, N. Y. Lamp-chimney. No. 41,786; Sept. 19; Gaz. vol. 170; p. 687.
Driscoll, Dennis A., assignor to R. H. Damon, Leominster, Mass. Hair ornament. No. 41,965; Dec. 12; Gaz. vol. 173; p. 560.
Du Quette, Jennie, Chicopee Falls, Mass. Collar-stay frame. No. 41,586; July 11; Gaz. vol. 168; p. 504.
Dunton, Kervin R., assignor to Doten-Dunton Desk Co., Boston, Mass. Desk. Nos. 41,150–1; Jan. 31; Gaz. vol. 162; p. 1171.
Dupont, Paul, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Nos. 41,906–7; Nov. 7; Gaz. vol. 172; p. 235.
Durbin, Robert H., assignor to Strawbridge & Clothier, Philadelphia, Pa. Paper wafer. No. 41,932; Nov. 21; Gaz. vol. 172; p. 799.
E. H. H. Smith Silver Company, The. (See Ittig, George P., assignor.)
E. I. du Pont de Nemours Powder Company. (See Haskell, Jonathan A., assignor.)
E. R. Thomas Motor Company. (See Verreault, George T., assignor.)
Eagle Pencil Company. (See Kraus, Samuel, assignor.)
Ebeling, Phillip, assignor to Fostoria Glass Company, Moundsville, W. Va. Cocktail-glass. No. 41,236; Mar. 14; Gaz. vol. 164; p. 485.
Ebeling, Phillip, assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet. No. 41,237; Mar. 14; Gaz. vol. 164; p. 485.
Eberhard Faber Pencil Company. (See Archibald, David H., assignor.)
Eberhard Faber Pencil Company. (See Lee, Oliver, assignor.)
Edison, Thomas A. (See Pooley, Edward F., assignor.)
Edlund, Fritz, Hoquiam, Wash. Dish-container. No. 42,042; Dec. 26; Gaz. vol. 173; p. 1054.
Edmunds & Jones Mfg. Co., The. (See Godley, Charles E., assignor.)
Edmunds & Jones Mfg. Co., The. (See Jones, William T., assignor.)
Edwards, William E., New York, N. Y. Badge. No. 41,259; Mar. 28; Gaz. vol. 164; p. 953.
Eisenbrey Manufacturing Company. (See Lyons, James, assignor.)
Elkins, Stephen F., Pittsburgh, Pa. Lamp-shade. No. 41,820; Oct. 3; Gaz. vol. 171; p. 200.
Elliot, William A., Yonkers, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 41,131–4; Jan. 24; Gaz. vol. 162; p. 980.
Elliot, William A., Yonkers, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 41,157–8; Feb. 7; Gaz. vol. 163; p. 214.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,196; Feb. 21; Gaz. vol. 163; p. 708.
Elliot, William A., Yonkers, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 41,197–9; Feb. 21; Gaz. vol. 163; p. 709.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,247; Mar. 14; Gaz. vol. 164; p. 487.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,415; May 30; Gaz. vol. 166; p. 1263.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,477; June 13; Gaz. vol. 167; p. 496.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,503; June 20; Gaz. vol. 167; p. 741.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,520; June 27; Gaz. vol. 167; p. 961.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,573; July 11; Gaz. vol. 168; p. 501.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,643–6; Aug. 1; Gaz. vol. 169; pp. 182–3.
Elliot, William A., Yonkers, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,669–71; Aug. 8; Gaz. vol. 169; p. 430.

Alphabetical list of patentees of designs—Continued.

Elms, Franklin M., *et al.* (See Gegenheimer, George, assignor.)
Elms, James C., *et al.* (See Gegenheimer, George, assignor.)
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Cabinet for talking-machines. No. 41,776; Sept. 12; Gaz. vol. 170; p. 459.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Talking-machine cabinet. No. 41,824; Oct. 3; Gaz. vol. 171; p. 200.
English, John C., Camden, N. J., assignor to Victor Talking Machine Company. Talking-machine cabinet. No. 41,836; Oct. 10; Gaz. vol. 171; p. 460.
Essegian, Moses, East Cambridge, Mass. Corner-shield for suit-cases or similar articles. No. 41,607; July 25; Gaz. vol. 168; p. 1007.
Evans, Dennet E., Watertown, assignor to Waterbury Mfg. Co., Waterbury, Conn. Trimming-band for metal beds. No. 41,818; Oct. 3; Gaz. vol. 171; p. 199.
Evans, Howard S., Pittsburg, Pa. Lamp-shade. No. 41,081; Jan. 10; Gaz. vol. 162; p. 524.
Evans, Howard S., assignor to The Macbeth-Evans Glass Company, Pittsburg, Pa. Lamp-shade. No. 41,785; Sept. 19; Gaz. vol. 170; p. 687.
Ewart, Samuel, London, England. Ventilating-cowl. No. 41,810; Sept. 26; Gaz. vol. 170; p. 913.
Ewing, Charles A., Fort Totten, N. Y. Bottle. No. 41,701; Aug. 22; Gaz. vol. 169; p. 923.
Ewing, Robert E., Avalon, assignor to Pittsburg Lamp, Brass & Glass Company, Pittsburg, Pa. Shade. No. 41,466; June 13; Gaz. vol. 167; p. 494.
Ewing, Robert E., Avalon, assignor to Pittsburg Lamp, Brass & Glass Company, Pittsburg, Pa. Lamp-pedestal. No. 41,467; June 13; Gaz. vol. 167; p. 494.
F. Engelhardt & Sons. (See Nelson, Nels J., assignor.)
Fahnestock Electric Company. (See Schade, John, Jr., assignor.)
Farrell, George R., Leominster, Mass. Bandeau. No. 41,486; June 20; Gaz. vol. 167; p. 737.
Farrell, James W., Norwood, Ohio. Back for toilet mirrors, brushes, or similar articles. No. 41,869; Oct. 31; Gaz. vol. 171; p. 1231.
Fauser, Gustave M., New York, N. Y., assignor to The Tingue Manufacturing Company, Seymour, Conn. Textile fabric. Nos. 41,101–5; Jan. 17; Gaz. vol. 162; pp. 763–4.
Fauser, Gustave M., New York, N. Y., assignor to The Tingue Mfg. Co., Seymour, Conn. Textile fabric. Nos. 41,866–7; Oct. 24; Gaz. vol. 171; pp. 961–2.
Fauser, Gustave M., assignor to Weinreb Brothers, New York, N. Y. Textile fabric. No. 41,735; Aug. 29; Gaz. vol. 169; p. 1161.
Fauser, Gustave M., New York, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 41,887; Oct. 31; Gaz. vol. 171; p. 1235.
Fauser, Gustave M., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 41,935; Nov. 21; Gaz. vol. 172; p. 800.
Federal Electric Company. (See Goehst and Carpenter, assignors.)
Federal-Huber Company. (See Sanders and Lloyd, assignors.)
Fedor, Julius, Monessen, Pa. Cuspidor. No. 41,704; Aug. 22; Gaz. vol. 169; p. 923.
Field, Walter E., assignor to T. E. Bennett Company, Providence, R. I. Brooch. No. 41,174; Feb. 14; Gaz. vol. 163; p. 463.
Filip, Michal, Jersey City, N. J. Cuspidor. No. 41,934; Nov. 21; Gaz. vol. 172; p. 799.
Filson, Albert S., Los Angeles, Cal. Watch-chain. No. 41,737; Sept. 5; Gaz. vol. 170; p. 215.
Fischer, Charles, New York, N. Y. Ring or similar article. No. 41,654; Aug. 8; Gaz. vol. 169; p. 427.
Fischer, Ulrich, and J. Huesler, St. Louis, Mo. Salt-shaker. No. 41,924; Nov. 14; Gaz. vol. 172; p. 524.
Flitcraft, John M., assignor of one-half to J. W. Fryer, St. Charles, Iowa. Tray. No. 41,394; May 23; Gaz. vol. 166; p. 965.
Flour City Ornamental Iron Works. (See Murphy, John F., assignor.)
Fogg, Newton H., Sanford, Me. Fly-killer. No. 41,606; July 25; Gaz. vol. 168; p. 1007.
Forbell, Charles H., Woodhaven, N. Y. Image. No. 41,211; Mar. 7; Gaz. vol. 164; p. 229.
Ford, Arthur C., Denver, Colo. Casing for cameras. No. 41,900; Nov. 7; Gaz. vol. 172; p. 234.
Fornander, Alfred, New York, N. Y., assignor to American Lead Pencil Company. Pencil-clip. No. 41,263; Mar. 28; Gaz. vol. 164; p. 954.
Foster, John R., Arlington, Mass. Frame for pictures, mirrors, or similar articles. No. 41,762; Sept. 12; Gaz. vol. 170; p. 456.
Foster Stove Company, The. (See Becvar, Joseph, assignor.)
Foster, Theodore W., Providence, R. I. Mirror or similar article. No. 41,356; May 2; Gaz. vol. 166; p. 231.
Foster, Theodore W., Providence, R. I. Cover for boxes or similar articles. No. 41,384; May 16; Gaz. vol. 166; p. 735.
Foster, Theodore W., Providence, R. I. Brush or similar article. Nos. 41,852–3; Oct. 24; Gaz. vol. 171; p. 959.
Fostoria Glass Company. (See Ebeling, Phillip, assignor.)
Fowler, Harriet W., New York, N. Y., assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Nos. 41,888–9; Oct. 31; Gaz. vol. 171; p. 1235.
Francis, Isaac, Fremont, Nebr. Bottle-opener. No. 41,178; Feb. 14; Gaz. vol. 163; p. 464.
Frank, Jacob, assignor to The Frank Tea & Spice Company, Cincinnati, Ohio. Spice-box. No. 41,558; July 11; Gaz. vol. 168; p. 498.
Frank & Lambert Company. (See Lambert, Julius J., assignor.)
Frank, Morris, New York, N. Y. Embossed textile fabric. No. 41,071; Jan. 3; Gaz. vol. 162; p. 252.
Frank Tea & Spice Company, The. (See Frank, Jacob, assignor.)
Frank W. Smith Company. (See Scholz, Anton, assignor.)
Friedberger-Aaron Manufacturing Company. (See Aaron and Goodman, assignors.)
Friedberger-Aaron Manufacturing Company. (See Aaron and Strickhouser, assignors.)
Fritz, John, Buffalo, N. Y. Broom. No. 41,796; Sept. 19; Gaz. vol. 170; p. 690.
Fryer, J. W. (See Flitcraft, John M., assignor.)
Fuhr, Frank L., Uhrichsville, Ohio. Display-board. No. 41,727; Aug. 29; Gaz. vol. 169; p. 1159.
Gaffney, Michael W. (See Lang and Gaffney.)
Gair, Robert, New York, N. Y. Box-mat. Nos. 41,272–3; Mar. 28; Gaz. vol. 164; pp. 955–6.
Gair, Robert, New York, N. Y. Box-strip. Nos. 41,274–5; Mar. 28; Gaz. vol. 164; p. 956.
Gair, Robert, New York, N. Y. Doily. Nos. 41,276–8; Mar. 28; Gaz. vol. 164; p. 956.
Gallatin, Albert, New York, N. Y. Telephone-standard. No. 41,685; Aug. 15; Gaz. vol. 169; p. 680.
Gattiker, Robert, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric Nos. 41,908–10; Nov. 7; Gaz. vol. 172; p. 236.
Gavin, John H., assignor to L. Wolff Manufacturing Company, Chicago, Ill. Lavatory. Nos. 41,841–2; Oct. 10; Gaz. vol. 171; p. 461.
Gaylord, George E., Elmira Heights, N. Y. Glass vessel or similar article. No. 41,854; Oct. 24; Gaz. vol. 171; p. 959.
Gegenheimer, George, assignor to J. C. Elms, C. H. Sellon, and F. M. Elms, New York, N. Y. Textile fabric. No. 41,311; Apr. 11; Gaz. vol. 165; p. 456.
General Electric Company. (See Ryan, Walter D., assignor.)
Genthner, Charles M., Peoria, Ill. Stove. No. 41,470; June 13; Gaz. vol. 167; p. 494.
Geo. Borgfeldt & Co. (See Norton, Charles H., assignor.)
Gerth, Charles, assignor to The Hartman Trunk Co., Racine, Wis. Traveling-bag. No. 41,393; May 16; Gaz. vol. 166; p. 736.
Gillinder & Sons. (See Booth, Kraft, assignor.)
Gilman, Myron A., Westfield, Mass. Garment-hanger. No. 41,344; May 2; Gaz. vol. 166; p. 229.
Gloekler, John E., Pittsburg, Pa. Stand. No. 41,431; June 6; Gaz. vol. 167; p. 217.
Godley, Charles E., assignor to The Edmunds & Jones Mfg. Co., Detroit, Mich. Lamp. No. 41,562; July 11; Gaz. vol. 168; p. 499.
Goehst, John H., and R. G. Carpenter, assignors to Federal Electric Company, Chicago, Ill. Kitchen-cabinet. No. 41,096; Jan. 17; Gaz. vol. 162; p. 762.
Golden, Charles D., Chicago, Ill. Mirror and stand. Nos. 41,428–9; June 6; Gaz. vol. 167; p. 217.
Golden, Charles D., Chicago, Ill. Picture-frame. No. 41,430; June 6; Gaz. vol. 167; p. 217.
Golden, Charles D., Chicago, Ill. Casserole-holder. No. 41,489; June 20; Gaz. vol. 167; p. 738.
Golden, Charles D., Chicago, Ill. Lamp. No. 41,681; Aug. 15; Gaz. vol. 169; p 679.
Goldhamer, William N., St. Louis, Mo. Door-frame and doors for stove-ovens, warming-compartments, or like articles. No. 41,270; Mar. 28; Gaz. vol. 164; p. 955.
Goldson, William H. (See Torley, Harry G., assignor.)
Good, Robert C., Hackettstown, N. J. Embossed leather. No. 41,100; Jan. 17; Gaz. vol. 162; p. 763.
Goodman, Samuel N. (See Aaron and Goodman.)
Gorham Manufacturing Company. (See Codman, William C., assignor.)
Gosnell, Aquilla H., Baltimore, Md. Baking-shell. No. 41,395; May 23; Gaz. vol. 166; p. 965.
Gosnell, Henry S., Terre Haute, assignor of one-half to L. E. Gosnell, West Terre Haute, Ind. Stencil. No. 41,933; Nov. 21; Gaz. vol. 172; p. 799.
Gosnell, Linds E. (See Gosnell, Henry S., assignor.)
Gothberg, Herman, Roselle Park, N. J. Chandelier-trimming. No. 41,705; Aug. 22; Gaz. vol. 169; p. 924.
Gothberg, Herman E., Jr., Roselle Park, N. J. Canopy-ring for light-fixtures. No. 41,822; Oct. 3; Gaz. vol. 171; p. 200.
Goulds Manufacturing Company, The. (See Smith, Sidney S., assignor.)
Gowran, Harry C., Two Rivers, Wis., assignor to The Hamilton Manufacturing Company. Cabinet. No. 41,777; Sept. 12; Gaz. vol. 170; p. 459.

Alphabetical list of patentees of designs—Continued.

Grant, George W., Bucyrus, Ohio. Top for dentists' bracket-tables. No. 41,268; Mar. 28; Gaz. vol. 164; p. 955.
Grate, Walter M., Ceredo, W. Va. Penholder. No. 41,375; May 16; Gaz. vol. 166; p. 733.
Graton, Claude D., Burlington, Vt. Badge or similar article. No. 41,260; Mar. 28; Gaz. vol. 164; p. 953.
Gray, William. (See Taylor, Edward E., assignor.)
Gray, William, and E. E. Taylor, Amesbury, Mass. Automobile-lamp. No. 41,542; July 4; Gaz. vol. 168; p. 230.
Gredelue, Adrien, New York, N. Y. Drinking vessel. No. 41,341; May 2; Gaz. vol. 166; p. 229.
Green, A Jackson, assignor to The Hartford Carpet Corporation, Thompsonville, Conn. Carpet or rug. No. 42,043; Dec. 26; Gaz. vol. 173; p. 1054.
Groff, Frederick F., Lancaster, Pa. Vehicle-body. No. 41,085; Jan. 10; Gaz. vol. 162; p. 525.
Grosvenor, Herbert J., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Self-measuring pump. No. 41,839; Oct. 10; Gaz. vol. 171; p. 460.
Guth, Edwin F., St. Louis, Mo. Electric chandelier. No. 41,378; May 16; Gaz. vol. 166; p. 733.
Guthman, Solomons & Company. (See Stember, David S., assignor.)
H. B. Wiggin's Sons Company. (See Wiggin, Joseph N., assignor.)
H. P. Sinclaire & Company. (See Sinclaire, Henry P., assignor.)
Haas, Frank A., New York, N. Y., assignor to M. J. Whittall, Worcester, Mass. Rug. No. 41,662; Aug. 8; Gaz. vol. 169; p. 429.
Haas, Joseph. (See Kurrell and Haas.)
Habensack, Frederick, Sag Harbor, assignor to Joseph Fahys & Company, New York, N. Y. Handle of spoons, forks, or similar articles. No. 41,175; Feb. 14; Gaz. vol. 163; p. 463.
Habensack, Frederick, Sag Harbor, assignor to Joseph Fahys & Company, New York, N. Y. Handle for spoons, forks, or similar articles. No. 41,694; Aug. 22; Gaz. vol. 169; p. 922.
Hadley, Edmund P., and C. C. Holden, assignors to Royal Comb Company, Leominster, Mass. Brush-holder. No. 41,593; July 18; Gaz. vol. 168; p. 769.
Haimovitz, Israel, New York, N. Y. Belt-buckle. No. 42,044; Dec. 26; Gaz. vol. 173; p. 1054.
Haley, Reuben, Beaver, assignor to Westmoreland Specialty Company, Grapeville, Pa. Compote-dish. No. 41,176; Feb. 14; Gaz. vol. 163; p. 464.
Haley, Reuben, Beaver, assignor to Westmoreland Specialty Company, Grapeville, Pa. Candlestick. Nos. 41,300–1; Apr. 11; Gaz. vol. 165; p. 454.
Hamilton, John L., Chicago, Ill. Lamp-post. No. 41,069; Jan. 3; Gaz. vol. 162; p. 252.
Hamilton Manufacturing Company, The. (See Gowran, Harry C., assignor.)
Hampden Glazed Paper & Card Company. (See Close, Stuart M., assignor.)
Hanna, George W., McKeesport, Pa. Wall-rack. No. 41,192; Feb. 21; Gaz. vol. 163; p. 708.
Hanold, Frank J., New York, N. Y. Memorial monument. No. 41,566; July 11; Gaz. vol. 168; p. 500.
Hanon, Cyrus E., St. Louis, Mo. Light-reflecting lens and prism for illuminated signs. No. 41,094; Jan. 17; Gaz. vol. 162; p. 762.
Hardware & Woodenware Manufacturing Company. (See Bixler, Lewis S., assignor.)
Hardy, John G., Warwick, assignor to The W. J. Feeley Co., Providence, R. I. Badge or similar article. No. 41,261; Mar. 28; Gaz. vol. 164; p. 953.
Harris, Minnie M., Spokane, Wash., assignor of one-half to B. K. Sinclair, Dallas, Tex. Advertising display-card. No. 41,460; June 13; Gaz. vol. 167; p. 492.
Hart, Harry M., Philadelphia, Pa. Foot-scraper. No. 41,843; Oct. 10; Gaz. vol. 171; p. 461.
Hart, Walter H., assignor to Stanley Works, New Britain, Conn. Hinge-leaf. Nos. 41,305–6; Apr. 11; Gaz. vol. 165; p. 455.
Hartford Carpet Corporation, The. (See Brown, James S., assignor.)
Hartford Carpet Corporation, The. (See Green, A Jackson, assignor.)
Hartford Carpet Corporation, The. (See Pegel, Julius G., assignor.)
Hartford Carpet Corporation, The. (See Sayers, William E., assignor.)
Hartman, Eugène, New York, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. No. 41,875; Oct. 31; Gaz. vol. 171; p. 1233.
Hartman Trunk Co., The. (See Gerth, Charles, assignor.)
Hartog, Stephen D., assignor to The Diagraph Company, St. Louis, Mo. Font of printing-type. No. 41,357; May 2; Gaz. vol. 166; p. 231.
Haskell, Jonathan A., Middletown township, Monmouth county, N. J., assignor to E. I. du Pont de Nemours Powder Company, Wilmington, Del. Imitation-leather fabric or similar article. No. 42,045; Dec. 26; Gaz. vol. 173; p. 1055.
Haviland, Charles E., Limoges, France. Covered dish or similar article. Nos. 41,463–4; June 13; Gaz. vol. 167; p. 493.
Hawe, William F. M., Pittsburgh, Pa. Lamp-shade. No. 41,970; Dec. 12; Gaz. vol. 173; p. 561.
Hawkes, Thomas G., Corning, N. Y. Glass vessel or similar article. No. 41,153; Feb. 7; Gaz. vol. 163; p. 213.
Hawkins, David S. (See Margileth, Adolph W., assignor.)
Hawkins, David S., Lakewood, assignor of one-half to A. W. Margileth, Cleveland, Ohio. Card-back or similar article. No. 41,657; Aug. 8; Gaz. vol. 169; p. 428.
Hawksley, Robert. (See Roemer and Hawksley.)
Hayes, Stanley W., Geneva, N. Y. Derail-block. No. 41,612; July 25; Gaz. vol. 168; p. 1008.
Hays, Benjamin F., New York, N. Y. Bottle and stopper therefor. No. 41,560; July 11; Gaz. vol. 168; p. 499.
Heath, Spencer, Washington, D. C. Propeller. No. 41,244; Mar. 14; Gaz. vol. 164; p. 487.
Heath, Thomas, Attleboro, Mass., assignor to Watson & Newell Company. Handle for spoons, forks, or similar articles. No. 41,805; Sept. 26; Gaz. vol. 170; p. 912.
Hedelius, Ernst E., Calmar, Iowa. Corner-bracket. No. 41,862; Oct. 24; Gaz. vol. 171; p. 961.
Hedges, Harry K., Los Angeles, Cal. Motor-cycle attachment-body. No. 41,390; May 16; Gaz. vol. 166; p. 736.
Heinrichs, Mabel W., assignor to Burley & Tyrrell Company, Chicago, Ill. Plate or similar article. No. 41,090; Jan. 17; Gaz. vol. 162; p. 761.
Heinz, Frank, Allentown, Pa. Hat-pin holder. No. 41,945; Nov. 28; Gaz. vol. 172; p. 1075.
Heister, John F., and J. Davids, assignors to Phillips & Clark Stove Company, Geneva, N. Y. Stove. Nos. 41,749–50; Sept. 5; Gaz. vol. 170; p. 217.
Heister, John F., and J. Davids, assignors to Phillips & Clark Stove Company, Geneva, N. Y. Stove. No. 41,800; Sept. 19; Gaz. vol. 170; p. 691.
Hendschel, Fred, New York, N. Y. Ribbon-clasp. No. 41,359; May 9; Gaz. vol. 166; p. 491.
Henne, Herbert G., New Braunfels, assignor to National Anti-Tipping League, Incorporated, Dallas, Tex. Badge, button, or similar article. No. 41,551; July 11; Gaz. vol. 168; p. 497.
Henry Disston & Sons. (See Roberts, Elmer S., assignor.)
Herbeck, Emil, Hallstead, Pa. Cut-glass vessel or similar article. No. 41,955; Dec. 5; Gaz. vol. 173; p. 266.
Herbeck, Louise C., Hallstead, Pa. Cut-glass vessel or similar article. No. 42,047; Dec. 26; Gaz. vol. 173; p. 1055.
Herod, Joseph, Patchogue, assignor to Patchogue Manufacturing Company, New York, N. Y. Lace panel. No. 41,952; Nov. 28; Gaz. vol. 172; p. 1076.
Hertlein, Christian E. (See Maul, Otto E., assignor.)
Hibbard Spencer Bartlett & Co. (See Stewart, Pritchard, assignor.)
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 41,064; Jan. 3; Gaz. vol. 162; p. 251.
Hillbom, Henrik, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 41,262; Mar. 28; Gaz. vol. 164; p. 953.
Hiller, Joseph L., Mattapoisett, Mass. Crusher-machine casing. No. 41,097; Jan. 17; Gaz. vol. 162; p. 762.
Hine, Cicero, assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Billiard-table. No. 41,289; Apr. 4; Gaz. vol. 165; p. 228.
Hine, Cicero, assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Billiard-table. No. 41,699; Aug. 22; Gaz. vol. 169; p. 923.
Hine, Cicero, assignor to The Brunswicke-Balke-Collender Co., Chicago, Ill. Billiard-table. No. 41,864; Oct. 24; Gaz. vol. 171; p. 961.
Hine, Cicero, assignor to The Brunswick-Balke-Collender Co., Chicago, Ill. Billiard-table. No. 41,929; Nov. 14; Gaz. vol. 172; p. 525.
Hirsch, Hiram H., Philadelphia, Pa. Frame and support for electric fans. No. 41,848; Oct. 17; Gaz. vol. 171; p. 723.
Hoch, Ernest, New York, N. Y., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 41,876–9; Oct. 31; Gaz. vol. 171; p. 1233.
Hogan, George L., New York, N. Y. Casing for clocks and vending-machines. No. 41,320; Apr. 18; Gaz. vol. 165; p. 709.
Hohmer, Hans, New York, N. Y. Display-stand. No. 41,688; Aug. 15; Gaz. vol. 169; p. 681.
Holden, Crofton C. (See Hadley and Holden.)
Holforty, Howard, Omaha, Nebr. Hat. No. 41,258; Mar. 21; Gaz. vol. 164; p. 721.
Homan, Joseph T., Cincinnati, Ohio. Back for toilet mirrors, brushes, or similar articles. No. 41,870; Oct. 31; Gaz. vol. 171; p. 1231.
Hood, Arthur N., Newton, Mass., assignor, by mesne assignments, to Shawmut Tire Co. Rubber vehicle-tire. Nos. 41,496–7; June 20; Gaz. vol. 167; pp. 739–40.
Hopkins, Cornelia A., New York, N. Y. Toy figure or like article. No. 41,212; Mar. 7; Gaz. vol. 164; p. 230.
Howe, William F. M., assignor to Macbeth-Evans Glass Company, Pittsburgh, Pa. Lamp-shade. No. 42,046; Dec. 26; Gaz. vol. 173; p. 1055.
Hubbell, Jacob W., Toledo, Ohio. Carrying-case for bowling-balls. No. 41,926; Nov. 14; Gaz. vol. 172; p. 524.
Huesler, John. (See Fischer and Huesler.)

Alphabetical list of patentees of designs—Continued.

Huff, Russell, assignor to Packard Motor Car Company, Detroit, Mich. Handle for electric switches. No. 41,921; Nov. 7; Gaz. vol. 172; p. 238.
Hummel, Oscar S., San Diego, Cal. Piano-case. No. 41,222; Mar. 7; Gaz. vol. 164; p. 231.
Humphreys, Charles F., assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum or oil-cloth. Nos. 42,048–9; Dec. 26; Gaz. vol. 173; p. 1055.
Hunt, Harry S., Corning, N. Y. Glass vessel or similar article. No. 41,555; July 11; Gaz. vol. 168; p. 498.
Hupp-Yeats Electric Car Company. (See Nelson, Emil A., assignor.)
Hurtt, Frank L., Peoria, Ill. Cornet. No. 41,613; July 25; Gaz. vol. 168; p. 1009.
Huss, Theodore, assignor to The Argo Electric Vehicle Company, Saginaw, Mich. Vehicle-body. No. 41,355; May 2; Gaz. vol. 166; p. 231.
Hutchison, Miller R., New York, N. Y. Duplex horn. No. 41,871; Oct. 31; Gaz. vol. 171; p. 1232.
Illinois Watch Case Company. (See Johnson, John E., assignor.)
International Silver Co. (See Dean, John R., assignor.)
International Silver Co. (See Kintz, Alfred G., assignor.)
International Silver Co. (See Pretat, Frederick E., assignor.)
International Silver Co. (See Shanley, Thomas A., assignor.)
International Silver Co. (See Strohhaker, Gustave, assignor.)
International Silver Co. (See Turner, Albert, assignor.)
International Silver Company. (See Lashar, Thomas B., assignor.)
Ittig, George P., assignor to The E. H. H. Smith Silver Company, Bridgeport, Conn. Handle for spoons, forks, or similar articles. No. 41,966; Dec. 12; Gaz. vol. 173; p. 560.
J. Pouyat Company, The. (See Ziegler, Charles, assignor.)
J. B. Williams Company, The. (See Stevens, Charles K., assignor.)
J. B. Williams Company, The. (See Teague, Walter D., assignor.)
J. H. White Manufacturing Co. (See White, Edwin L., assignor.)
J. & J. Cash, Limited. (See Averns, Raymond H., assignor.)
J. L. Sommer Mfg. Co. (See Sommer, John L., assignor.)
Jacob, Samuel, Philadelphia, Pa. Aquarium. No. 41,501; June 20; Gaz. vol. 167; p. 740.
Jacob, Samuel, Philadelphia, Pa. Aquarium. No. 41,977; Dec. 12; Gaz. vol. 173; p. 563.
Jennings, Albert G., New York, N. Y. Face-veil. No. 41,903; Nov. 7; Gaz. vol. 172; p. 235.
Jennings, Albert G., New York, N. Y. Open-mesh fabric. No. 41,919; Nov. 7; Gaz. vol. 172; p. 237.
Jewett, Edgar B., Buffalo, N. Y. Table and refrigerator. No. 41,221; Mar. 7; Gaz. vol. 164; p. 231.
Johnson, Abraham, Winlock, Wash. Tobacco-pipe. No. 41,816; Oct. 3; Gaz. vol. 171; p. 199.
Johnson, Jesse W., assignor to W. H. Johnson & Son Co., Indianapolis, Ind. Side or bracket for radiator-shields. No. 41,608; July 25; Gaz. vol. 168; p. 1008.
Johnson, John E., assignor to Illinois Watch Case Company, Elgin, Ill. Pendant-stem for watches. Nos. 41,781–2; Sept. 19; Gaz. vol. 170; p. 686.
Jones, Joseph W., New York, N. Y., assignor to Lovell-McConnell Manufacturing Company, Newark, N. J. Horn. No. 41,563; July 11; Gaz. vol. 168; p. 499.
Jones, Leslie W., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,106; Jan. 17; Gaz. vol. 162; p. 764.
Jones, Leslie W., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,135; Jan. 24; Gaz. vol. 162; p. 981.
Jones, Leslie W., New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,250; Mar. 14; Gaz. vol. 164; p. 488.
Jones, Leslie W., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,404; May 23; Gaz. vol. 166; p. 967.
Jones, Leslie W., New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,521–2; June 27; Gaz. vol. 167; p. 962.
Jones, William T., assignor to The Edmunds & Jones Mfg. Co., Detroit, Mich. Lamp. No. 41,743; Sept. 5; Gaz. vol. 170; p. 216.
Joseph Fahys & Company. (See Habensack, Frederick, assignor.)
Juergens, Emma R., New York, N. Y. Bow-holder. No. 41,964; Dec. 12; Gaz. vol. 173; p. 560.
Kaiser, John C., Kenton, Ohio. Vehicle-body. No. 41,690; Aug. 15; Gaz. vol. 169; p. 681.
Kampfe, Otto, New York, N. Y. Cigar-cutter. No. 41,433; June 6; Gaz. vol. 167; p. 218.
Karsitz, Frank. (See Alvord and Karsitz.)
Keen, Morris, Philadelphia, Pa. Cabinet. No. 41,402; May 23; Gaz. vol. 166; p. 966.
Keil, Ernst, Princeton, N. J. Watch-fob. No. 41,337; May 2; Gaz. vol. 166; p. 228.
Keith, James, London, England. Casing for air-circulators. No. 41,269; Mar. 28; Gaz. vol. 164; p. 955.
Kelly, John F., assignor to Thomas Maddock's Sons Company, Trenton, N. J. Flushing-tank for water-closets. No. 41,979; Dec. 12; Gaz. vol. 173; p. 563.
Kelly, William, Detroit, Mich. Casing for multicylinder gas-engines. No. 41,543; July 4; Gaz. vol. 168; p. 230.
Kerins, Roderick E. (See Wade and Kerins.)
Kern, George, Peru, assignor to The Western Clock Manufacturing Company, La Salle, Ill. Casing for alarm-clocks. No. 41,725; Aug. 29; Gaz. vol. 169; p. 1159.
Keys, William L., Omaha, Nebr. Reflector and bracket therefor. No. 41,989; Dec. 19; Gaz. vol. 173; p. 830.
Keyston, James W., Jr., San Francisco, Cal., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Spur-body. No. 41,490; June 20; Gaz. vol. 167; p. 738.
Keystone Type Foundry. (See Weatherly, Sidney M., assignor.)
Keystone Watch Case Company, The. (See Mink, Fritz, assignor.)
Kies, Orville D., New York, N. Y. Sewing-machine head. No. 41,288; Apr. 4; Gaz. vol. 165; p. 228.
Killian, Lorenz. (See Strobel and Killian.)
King, Charles S., New Rochelle, N. Y. Fancy trimming. Nos. 41,711–14; Aug. 22; Gaz. vol. 169; p. 925.
King, Frederick W., Cleveland, Ohio. Guard for eyeglass-mountings. No. 41,763; Sept. 12; Gaz. vol. 170; p. 456.
King, Robert O., Buffalo, N. Y. Rock-lever. No. 41,329; Apr. 25; Gaz. vol. 165; p. 952.
King Stove & Range Co. (See O'Neill, Edward E., assignor.)
Kingsbury, Audrey, New York, N. Y. Combined hood and waist. No. 41,930; Nov. 14; Gaz. vol. 172; p. 525.
Kintz, Alfred G., Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 41,426; June 6; Gaz. vol. 167; p. 217.
Kirchberger, Moritz, New York, N. Y. Gas-burner pillar. No. 41,659; Aug. 8; Gaz. vol. 169; p. 428.
Klee, William C., Rochester, N. Y. Card or photograph holder. No. 41,125; Jan. 24; Gaz. vol. 162; p. 978.
Klein, Christian F., Baltimore, Md. Match-holder. No. 41,969; Dec. 12; Gaz. vol. 173; p. 561.
Klieves, John H., Wheeling, W. Va. Badge or button. No. 42,050; Dec. 26; Gaz. vol. 173; p. 1055.
Knapp, Zera, Newcastle, Ind. Kitchen-cabinet table. No. 41,689; Aug. 15; Gaz. vol. 169; p. 681.
Knoerzer, Otto, Hammond, Ind. Garage-emblem. No. 41,485; June 20; Gaz. vol. 167; p. 737.
Koken, Walter F., St. Louis, Mo. Barber's chair. No. 41,392; May 16; Gaz. vol. 166; p. 736.
Koken, Walter F., St. Louis, Mo. Barber's chair. No. 41,823; Oct. 3; Gaz. vol. 171; p. 200.
Kokeritz, Carl O. v. (See Weigang, Rudolf, assignor.)
Kolek, Karl, Buffalo, N. Y. Cuspidor. No. 41,925; Nov. 14; Gaz. vol. 172; p. 524.
Koonz, Frederick W., assignor to Shepard Manufacturing Company, Melrose, Mass. Brooch. No. 41,186; Feb. 21; Gaz. vol. 163; p. 706.
Kopetschny, Alexander, Jersey City, N. J. Badge or similar article. No. 42,051; Dec. 26; Gaz. vol. 173; p. 1056.
Korzinek, William C., Weehawken Heights, N. J., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 41,880–3; Oct. 31; Gaz. vol. 171; pp. 1233–4.
Kowalski, Joseph, Schenectady, N. Y. Cuspidor. No.
Krakauer, Arthur F., New York, N. Y. Bath-mat. No. 41,194; Feb. 21; Gaz. vol. 163; p. 708.
Kraus, Samuel, assignor to Eagle Pencil Company, New York, N. Y. Lead-pencil. No. 41,206; Feb. 28; Gaz. vol. 163; p. 958.
Kremer, William H., Oak Park, Ill. Broom and dust-pan hanger. No. 41,319; Apr. 18; Gaz. vol. 165; p. 708.
Kress, Joseph F., Philadelphia, Pa. Tooth-brush. No. 41,285; Apr. 4; Gaz. vol. 165; p. 227.
Krusius, Ewald, West Hoboken, N. J. Razor-handle. No. 41,342; May 2; Gaz. vol. 166; p. 229.
Kunsman, John F., Freemansburg, Pa. Tombstone. No. 41,950; Nov. 28; Gaz. vol. 172; p. 1076.
Kurrell, Theodor, and J. Haas, Los Angeles, Cal. Match or toothpick dispenser. No. 41,214; Mar. 7; Gaz. vol. 164; p. 230.
L. Plaut & Company. (See Ullman, George H., assignor.)
L. Wolff Manufacturing Company. (See Gavin, John H., assignor.)
Lambert, Julius J., assignor to Frank & Lambert Company, New York, N. Y. Textile fabric. No. 41,661; Aug. 8; Gaz. vol. 169; p. 429.
41,788; Sept. 19; Gaz. vol. 170; p. 688.
Lambert, Julius J., assignor to Frank & Lambert, New York, N. Y. Textile fabric. Nos. 42,052–3; Dec. 26; Gaz. vol. 173; p. 1056.
Landers, Frary and Clark. (See Curtiss, George E., assignor.)
Landers, Frary and Clark. (See Spellman, Herbert W., assignor.)
Lang, Charles E. J., and M. W. Gaffney, assignors to The Rauch & Lang Carriage Company, Cleveland, Ohio. Vehicle-body. No. 41,257; Mar. 21; Gaz. vol. 164; p. 721.

Alphabetical list of patentees of designs—Continued.

Lang, Charles E. J., and M. W. Gaffney, assignors to The Rauch & Lang Carriage Company, Cleveland, Ohio. Vehicle-body. No. 41,308; Apr. 11; Gaz. vol. 165; p. 455.
Lashar, Thomas B., assignor to International Silver Company, Bridgeport, Conn. Handle for spoons, forks, or similar articles. No. 41,845; Oct. 17; Gaz. vol. 171; p. 722.
Leahy, Edward A. J., assignor to Regal Hoof Pad Company, New York, N. Y. Hoof-pad. No. 41,330; Apr. 25; Gaz. vol. 165; p. 952.
Ledin, Charles L., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Padlock. No. 41,328; Apr. 25; Gaz. vol. 165; p. 952.
Lee, Oliver, New York, assignor to Eberhard Faber Pencil Company, Brooklyn, N. Y. Display-rack. No. 41,539; July 4; Gaz. vol. 168; p. 229.
Leete, Murray B., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 41,297; Apr. 11; Gaz. vol. 165; p. 454.
Lefkowitz, Isaac, New York, N. Y. Waist. No. 41,778; Sept. 12; Gaz. vol. 170; p. 459.
Lehmann, William H., O'Fallon, Ill. Mop holder and drier. No. 41,366; May 9; Gaz. vol. 166; p. 492.
Lehrer, Oscar J., Edmond, Okla. Badge or emblem. No. 41,374; May 16; Gaz. vol. 166; p. 732.
Leonard, William A., Chicago, Ill. Spool-cabinet. No. 41,976; Dec. 12; Gaz. vol. 173; p. 563.
Levinsohn, Louis N., New York, N. Y. Cabinet. No. 41,391; May 16; Gaz. vol. 166; p. 736.
Levy, Charles M., New York, N. Y. Locket cigar-cutter case. No. 41,847; Oct. 17; Gaz. vol. 171; p. 723.
Levy, Louis, assignor to S. Scheuer, New York, N. Y. Toy. No. 41,190; Feb. 21; Gaz. vol. 163; p. 707.
Lewis, Ellis R., and D. J. Cook, Kalamazoo, Mich. Lamp. No. 41,771; Sept. 12; Gaz. vol. 170; p. 458.
Lewis, George B., assignor to Shreve & Co., San Francisco, Cal. Border-section. No. 41,396; May 23; Gaz. vol. 166; p. 965.
Lewis, George B., assignor to Shreve & Co., San Francisco, Cal. Border-section for plates, trays, or similar articles. No. 41,892; Nov. 7; Gaz. vol. 172; p. 233.
Liebmann, Rudolph, New York, N. Y. Button. No. 41,808; Sept. 26; Gaz. vol. 170; p. 912.
Link-Belt Company. (See Dodge, James M., assignor.)
Lippincott, Fisher H., Philadelphia, Pa. Soda-fountain. No. 41,335; Apr. 25; Gaz. vol. 165; p. 953.
Litle, Thomas J., Jr., Woodbury, assignor to Welsbach Light Company, Gloucester City, N. J. Metal-necked globe or shade. No. 41,177; Feb. 14; Gaz. vol. 163; p. 464.
Lloyd, William H. (See Sanders and Lloyd.)
London, Louis B., New York, N. Y. Inverted gas arc-lamp. Nos. 41,772–3; Sept. 12; Gaz. vol. 170; p. 458.
Loomis, Harry T., New York, N. Y. Woven textile fabric. No. 41,813; Sept. 26; Gaz. vol. 170; p. 913.
Loudon, Milton R., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,136; Jan. 24; Gaz. vol. 162; p. 981.
Loudon, Milton R., Brooklyn, N. Y., assignor to The Bigelow Carpet Company. Rug. No. 41,159; Feb. 7; Gaz. vol. 163; p. 214.
Loudon, Milton R., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,458; June 6; Gaz. vol. 167; p. 223.
Loudon, Milton R., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,647–8; Aug. 1; Gaz. vol. 169; p. 183.
Loudon, Milton R., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet Nos. 41,672–3; Aug. 8; Gaz. vol. 169; p. 431.
Lovell-McConnell Manufacturing Company. (See Jones, Joseph W., assignor.)
Lovell, Whitney T., Oak Park, Ill. Lamp. No. 42,054; Dec. 26; Gaz. vol. 173; p. 1056.
Lowenstein, Abram L., New York, N. Y. Cotton piece goods. Nos. 41,279–83; Mar. 28; Gaz. vol. 164; pp. 956–7.
Lowres Optical Company, The. (See Van Denburgh, Albert S., assignor.)
Lukowski, John, Kensington, Ill. Bracelet. No. 41,779; Sept. 19; Gaz. vol. 170; p. 686.
Lundstrom, Louis, Los Angeles, Cal. Match-safe. No. 41,923; Nov. 14; Gaz. vol. 172; p. 524.
Luten, Daniel B., Indianapolis, Ind. Railing-block. No. 41,708; Aug. 22; Gaz. vol. 169; p. 924.
Lyons, James, Brooklyn, N. Y., assignor, by mesne assignments, to Eisenbrey Manufacturing Company, Baltimore, Md. Bed-cabinet. Nos. 41,995–6; Dec. 19; Gaz. vol. 173; pp. 831–2.
MacGregor, Peter G., New York, N. Y., assignor to Pyrene Manufacturing Company. Syringe or similar article. No. 41,434; June 6; Gaz. vol. 167; p. 218.
MacKusick, Charles E., Cambridge, Mass. Dispensing-receptacle. No. 41,491; June 20; Gaz. vol. 167; p. 738.
Macbeth-Evans Glass Company, The. (See Evans, Howard S., assignor.)
Macbeth-Evans Glass Company. (See Howe, William F. M., assignor.)
Macbeth, George A., Pittsburg, Pa. Lamp glass or lens. No. 41,093; Jan. 17; Gaz. vol. 162; p. 762.
Macbeth, Norman, Philadelphia, Pa., assignor to Welsbach Light Company, Gloucester City, N. J. Ceiling-reflector. No. 41,377; May 16; Gaz. vol. 166; p. 733.
Mackenzie, Antoine B., Toledo, Ohio. Hand-mirror. No. 41,553; July 11; Gaz. vol. 168; p. 497.
Mackenzie, Antoine B., Toledo, Ohio. Hair-brush. No. 41,634; Aug. 1; Gaz. vol. 169; p. 181.
Macneale, Neil, assignor to The Toledo Electric Welder Company, Cincinnati, Ohio. Electric-welding-machine frame. No. 41,849; Oct. 17; Gaz. vol. 171; p. 723.
Macneale, Neil, assignor to The Toledo Electric Welder Company, Cincinnati, Ohio. Electric-welding-machine frame. No. 41,872; Oct. 31; Gaz. vol. 171; p. 1232.
Madden, Patrick J., Chicago, Ill. Bowl for water-closets. No. 41,440; June 6; Gaz. vol. 167; p. 219.
Madden, Patrick J., Chicago, Ill. Slop-sink. No. 41,441; June 6; Gaz. vol. 167; p. 219.
Madsen, Charles P., assignor to Pelouze Electric Heater Co., Chicago, Ill. Electric stove. No. 41,372; May 9; Gaz. vol. 166; p. 494.
Marcuse, Isaac J., Richmond, Va., assignor to American Can Company, New York, N. Y. Sheet-metal pocket tobacco-box. No. 41,984; Dec. 19; Gaz. vol. 173; p. 829.
Marcuse, Moses M., New York, N. Y. Casing for drip-disinfectors. No. 41,219; Mar. 7; Gaz. vol. 164; p. 231.
Margerison, William H., *et al.* (See Moniot, Achille D., assignor.)
Margileth, A. W. (See Hawkins, David S., assignor.)
Margileth, Adolph W., Cleveland, assignor of one-half to D. S. Hawkins, Lakewood, Ohio. Emblem. No. 41,233; Mar. 14; Gaz. vol. 164; p. 484.
Marsters, Emery H., Boston, Mass. Bottle. No. 41,559; July 11; Gaz. vol. 168; p. 499.
Martin, Herbert S., and C. Borst, assignors to Schwartz, Kirwin & Fauss, New York, N. Y. Badge or similar article. No. 41,692; Aug. 22; Gaz. vol. 169; p. 921.
Mason, Carlisle, Wyndmoor, Pa., assignor to Nelson Valve Company. Valve. No. 41,492; June 20; Gaz. vol. 167; p. 739.
Maul, Otto E., Mount Vernon, assignor to Christian E. Hertlein, New York, N. Y. Rosette. No. 41,156; Feb. 7; Gaz. vol. 163; p. 214.
Mayer, Frederick, New York, N. Y. Sweater. No. 41,292; Apr. 4; Gaz. vol. 165; p. 228.
Mayer, George M., Highland Park, assignor to Atwater Manufacturing Company, North Chicago, Ill. Barber-pole. No. 41,728; Aug. 29; Gaz. vol. 169; p. 1159.
Mayer, Joseph, Seattle, Wash. Watch-fob or similar article. No. 41,980; Dec. 19; Gaz. vol. 173; p. 829.
Mayer, Joshua W. (See Spaney and Mayer.)
McAfee, Hugh, Pittsburg, assignor to Consolidated Lamp & Glass Co., Coraopolis, Pa. Shade. No. 41,082; Jan. 10; Gaz. vol. 162; p. 524.
McCleary, Wallin & Crouse. (See Miller, Henry A., assignor.)
McGrath, John, Cleveland, Ohio. Combination lamp and license-tag bracket. No. 41,972; Dec. 12; Gaz. vol. 173; p. 562.
McKeown, William C., assignor to Buffalo Radiator Company, Buffalo, N. Y. Radiator. No. 41,811; Sept. 26; Gaz. vol. 170; p. 913.
McKiernan, Joseph, New York, N. Y., assignor to The Bigelow Carpet Company. Rug. No. 41,111; Jan. 17; Gaz. vol. 162; p. 765.
McKinney, James P., Pittsburgh, Pa. Hinge. No. 42,055; Dec. 26; Gaz. vol. 173; p. 1057.
McLaughlin, George D., Chicago, Ill. Casing or carton. No. 41,098; Jan. 17; Gaz. vol. 162; p. 762.
McQuinn, James S., Newcastle, Ind. Glass panel. No. 41,286; Apr. 4; Gaz. vol. 165; p. 227.
McQuistion, Vane L., Butler, Pa. Club-purse. No. 41,067; Jan. 3; Gaz. vol. 162; p. 252.
Megyesy, Steve, Gastonville, Pa. Cuspidor. No. 41,856; Oct. 24; Gaz. vol. 171; p. 960.
Merry, John, New York, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 41,115–17; Jan. 17; Gaz. vol. 162; pp. 766–7.
Merry, John, New York, N. Y., assignor to The Bigelow Carpet Company. Rug. No. 41,137; Jan. 24; Gaz. vol. 162; p. 981.
Merry, John, New York, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 41,160–1; Feb. 7; Gaz. vol. 163; p. 215.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,251; Mar. 14; Gaz. vol. 164; p. 488.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,312; Apr. 11; Gaz. vol. 165; p. 456.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,314; Apr. 11; Gaz. vol. 165; p. 457.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,405; May 23; Gaz. vol. 166; p. 967.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,471–4; June 13; Gaz. vol. 167; p. 495.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,478; June 13; Gaz. vol. 167; p. 496.

Alphabetical list of patentees of designs—Continued.

Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,504–7; June 20; Gaz. vol. 167; p. 741.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,511; June 20; Gaz. vol. 167; p. 742.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,523–5; June 27; Gaz. vol. 167; p. 962.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,621–4; July 25; Gaz. vol. 168; p. 1011.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,013–14; Dec. 19; Gaz. vol. 173; p. 835.
Merry, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,032–5; Dec. 19; Gaz. vol. 173; pp. 838–9.
Meyer, Martin, Omaha, Nebr. Smoothing-iron. No. 41,974; Dec. 12; Gaz. vol. 173; p. 562.
Meyers, Solomon, assignor to Olympia Knitting Mills, Inc., Olympia, Wash. Muffler. No. 41,905; Nov. 7; Gaz. vol. 172; p. 235.
Michtom, Morris, New York, N. Y. Muff. No. 41,179; Feb. 14; Gaz. vol. 163; p. 464.
Miller, Henry A., assignor to McCleary, Wallin & Crouse, Amsterdam, N. Y. Rug. No. 41,210; Feb. 28; Gaz. vol. 163; p. 959.
Miller, John J., Newark, N. J. Plate or similar article. Nos. 41,556–7; July 11; Gaz. vol. 168; p. 498.
Mink, Fritz, assignor to The Keystone Watch Case Company, Philadelphia, Pa. Pendant-bow. No. 41,552; July 11; Gaz. vol. 168; p. 497.
Mintons Limited. (See Wadsworth, John W., assignor.)
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,252; Mar. 14; Gaz. vol. 164; p. 489.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,406; May 23; Gaz. vol. 166; p. 967.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,475; June 13; Gaz. vol. 167; p. 495.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,508; June 20; Gaz. vol. 167; p. 741.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,574; July 11; Gaz. vol. 168; p. 501.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,649; Aug. 1; Gaz. vol. 169; p. 183.
Moffat, John B. Bronxville, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,015; Dec. 19; Gaz. vol. 173; p. 835.
Moffat, John B., Bronxville, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,036; Dec. 19; Gaz. vol. 173; p. 839.
Moniot, Achille D., assignor to W. H. Margerison and A. E. Margerison, Philadelphia, Pa. Rug. No. 41,579; July 11; Gaz. vol. 168; p. 502.
Mooney, Benjamin F., Findlay, Ohio. Duet piano-bench. No. 41,901; Nov. 7; Gaz. vol. 172; p. 234.
Moore, Jacob L., Butler, Pa. Bedstead. Nos. 41,568–71; July 11; Gaz. vol. 168; pp. 500–1.
Moore, Jacob L., Butler, Pa. Bedstead. Nos. 41,639–40; Aug. 1; Gaz. vol. 169; p. 182.
Moore, Martha E., Los Angeles, Cal. Emblem. No. 41,676; Aug. 15; Gaz. vol. 169; p. 679.
Morgan, Edgar H., assignor to Arcade Manufacturing Company, Freeport, Ill. Bottle-opener. No. 41,124; Jan. 24; Gaz. vol. 162; p. 978.
Mosher, Francis M., Canton, Ill. Tool or implement rack. No. 41,993; Dec. 19; Gaz. vol. 173; p. 831.
Mouton, Paul, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 41,911; Nov. 7; Gaz. vol. 172; p. 236.
Mowrey, George A., Millvale, Pa. Spool-holder. No. 41,860; Oct. 24; Gaz. vol. 171; p. 960.
Mulcahy, Michael, Bakersfield, Cal. Hat-pin guard. No. 41,780; Sept. 19; Gaz. vol. 170; p. 686.
Müller, Herman, Philadelphia, Pa. Woven edging. No. 41,070; Jan. 3; Gaz. vol. 162; p. 252.
Munier, Emile, Jersey City, N. J., assignor to Pacific Mills, Boston, Mass. Textile fabric or wall-paper. Nos. 41,884–6; Oct. 31; Gaz. vol. 171; p. 1234.
Murphy, John F., assignor to Flour City Ornamental Iron Works, Minneapolis, Minn. Street-lamp. Nos. 41,436–8; June 6; Gaz. vol. 167; pp. 218–19.
Murray, George J., Rockaway Beach, N. Y. Street-lamp. No. 41,303; Apr. 11; Gaz. vol. 165; p. 454.
Murray, James D., London, England. Statuette. No. 41,293; Apr. 11; Gaz. vol. 165; p. 454.
Mygatt, Otis A., New York, N. Y. Shade, reflector, or similar article. No. 41,217; Mar. 7; Gaz. vol. 164; p. 231.
Mygatt, Otis A., New York, N. Y. Shade, reflector, or similar article. Nos. 41,241–3; Mar. 14; Gaz. vol. 164; pp. 486–7.
National Anti-Tipping League. (See Henne, Herbert G., assignor.)
National Clock & Electric Manufacturing Co. (See Wurmb and Baumann, assignors.)
National Scale Company. (See Ruckes, Michael, assignor.)
Nekarda, Mabel D., New York, N. Y. Hat. No. 41,587; July 11; Gaz. vol. 168; p. 504.
Nelson, Charles. (See Prior and Nelson.)
Nelson, Charles. (See Strassburger, Nelson, and Barker.)
Nelson, Charles, Brooklyn, N. Y., assignor to S. Sternau & Company, New York, N. Y. Chafing-dish and stand. No. 41,325; Apr. 25; Gaz. vol. 165; p. 951.
Nelson, Charles, New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Tumbler-holder. Nos. 41,338–9; May 2; Gaz. vol. 166; p. 228.
Nelson, Charles, New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Combined tumbler-holder and soap-dish. No. 41,340; May 2; Gaz. vol. 166; p. 228.
Nelson, Charles, New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Kettle-stand. No. 41,721; Aug. 29; Gaz. vol. 169; p. 1158.
Nelson, Charles, New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Percolating coffee-pot. No. 41,723; Aug. 29; Gaz. vol. 169; p. 1158.
Nelson, Charles, New York, N. Y., assignor to S. Sternau & Company, Brooklyn, N. Y. Smoking set. Nos. 41,769–70; Sept. 12; Gaz. vol. 170; p. 457.
Nelson, Charles, New York, assignor to S. Sternau & Company, Brooklyn, N. Y. Towel-rack. No. 41,956; Dec. 5; Gaz. vol. 173; p. 266.
Nelson, Charles, and H. Strassburger, New York, assignors to S. Sternau & Company, Brooklyn, N. Y. Coaster. No. 41,376; May 16; Gaz. vol. 166; p. 733.
Nelson, Emil A., assignor to Hupp-Yeats Electric Car Company, Detroit, Mich. Vehicle-body. No. 41,291; Apr. 4; Gaz. vol. 165; p. 228.
Nelson, Emil A., assignor to Hupp-Yeats Electric Car Company, Detroit, Mich. Body for motor-vehicles. No. 41,322; Apr. 18; Gaz. vol. 165; p. 709.
Nelson, Nels J., Chicago, Ill., assignor to F. Engelhardt & Sons, St. Johnsville, N. Y. Piano-case. Nos. 41,614–15; July 25; Gaz. vol. 168; p. 1009.
Nelson, Norman F., Flushing, N. Y. Suit for playing-cards. No. 41,310; Apr. 11; Gaz. vol. 165; p. 456.
Nelson Valve Company. (See Mason, Carlisle, assignor.)
Nerney, George E., Attleboro, Mass. Fraternal emblem. No. 41,063; Jan. 3; Gaz. vol. 162; p. 251.
Nerney, George E., Attleboro, Mass. Handle for spoons, forks, or similar articles. No. 41,089; Jan. 17; Gaz. vol. 162; p. 761.
Nerney, George E., Attleboro, Mass. Badge. No. 41,152; Feb. 7; Gaz. vol. 163; p. 213.
Nerney, George E., Attleboro, Mass. Badge or jewel. No. 41,180; Feb. 21; Gaz. vol. 163; p. 706.
Nerney, George E., Attleboro, Mass. Brooch, pin, buckle, or similar article. Nos. 41,181–5; Feb. 21; Gaz. vol. 163; p. 706.
Nerney, George E., Attleboro, Mass. Handle for spoons, forks, or similar articles. No. 41,203; Feb. 28; Gaz. vol. 163; p. 958.
Nerney, George E., Attleboro, Mass. Handle for spoons, forks, or similar articles. No. 41,739; Sept. 5; Gaz. vol. 170; p. 215.
Nerney, George E., Attleboro, Mass. Badge or emblem. No. 41,922; Nov. 14; Gaz. vol. 172; p. 524.
Nonaka, Kojiro, New York, N. Y. Textile fabric. No. 41,715; Aug. 22; Gaz. vol. 169; p. 925.
Noonan, David E. J., St. Louis, Mo. Soda-dispensing fountain. No. 41,155; Feb. 7; Gaz. vol. 163; p. 213.
North & Judd Manufacturing Company, The. (See Keyston, James W., Jr., assignor.)
Northwood, Charles O., assignor to C. Dorflinger & Sons, Incorporated, White Mills, Pa. Glass goblet or similar article. Nos. 41,677–8; Aug. 15; Gaz. vol. 169; p. 679.
Norton, Charles H., Bayshore, N. Y., assignor to Geo. Borgfeldt & Co. Hair-brush. No. 41,931; Nov. 21; Gaz. vol. 172; p. 799.
Numan, Charles H., New York, N. Y. Inkstand. No. 41,589; July 18; Gaz. vol. 168; p. 768.
Numan, Charles H., New York, N. Y. Inkstand. No. 41,846; Oct. 17; Gaz. vol. 171; p. 723.
Nuzzo, Frank, Pana, Ill. Quarter for shoes. No. 41,951; Nov. 28; Gaz. vol. 172; p. 1076.
O'Neill, Edward E., assignor to King Stove & Range Co., Sheffield, Ala. Cooking-stove. No. 41,127; Jan. 24; Gaz. vol. 162; p. 979.
Oakley, Clifford H., Trenton, N. J. Matting. No. 41,736; Aug. 29; Gaz. vol. 169; p. 1161.
Olsson, Anna, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 41,890; Oct. 31; Gaz. vol. 171; p. 1235.
Olympia Knitting Mills. (See Meyers, Solomon, assignor.)
Oneida Community. (See Allen, Grosvenor N., assignor.)
Onondaga Pottery Company. (See Sessions, Anna M., assignor.)
Orioli, Mario, and C. Bertolotti, New York, N. Y. Horse-cap. No. 41,745; Sept. 5; Gaz. vol. 170; p. 216.
Osborne & Stephenson Manufacturing Company, The. (See Stephenson, Frederick G., assignor.)
Pacific Mills. (See Hartman, Eugène, assignor.)
Pacific Mills. (See Hoch, Ernest, assignor.)
Pacific Mills. (See Korzinek, William C., assignor.)

Alphabetical list of patentees of designs—Continued.

Pacific Mills. (See Munier, Emile, assignor.)
Packard Motor Car Company. (See Huff, Russell, assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packard Motor Car Company. (See Waldon, Sidney D., assignor.)
Packer, Mortimer L., Columbus, Ohio. Stove. No. 41,599; July 18; Gaz. vol. 168; p. 770.
Pardoe, William A., Springfield, Mass., assignor to Bigelow Carpet Company. Rug. No. 41,479; June 13; Gaz. vol. 167; p. 496.
Pardoe, William A., Springfield, Mass., assignor to Bigelow Carpet Company. Rug. No. 42,016; Dec. 19; Gaz. vol. 173; p. 835.
Parker Clock Company, The. (See Walker, Eli M., assignor.)
Pármelee, John B., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Bicycle-frame. No. 41,564; July 11; Gaz. vol. 168; p. 499.
Patchogue Manufacturing Company. (See Herod, Joseph, assignor.)
Patrick, William K., and R. E. L. Costan, Fort Worth, Tex. Comic duck. No. 41,946; Nov. 28; Gaz. vol. 172; p. 1075.
Pearce, William, assignor to The B. F. Goodrich Company, Akron, Ohio. Golf-ball. No. 41,327; Apr. 25; Gaz. vol. 165; p. 952.
Pearce, William, assignor to The B. F. Goodrich Company, Akron, Ohio. Golf-ball. No. 41,817; Oct. 3; Gaz. vol. 171; p. 199.
Pegel, Julius G., assignor to The Hartford Carpet Corporation, Thompsonville, Conn. Carpet or rug. Nos. 42,056–9; Dec. 26; Gaz. vol. 173; p. 1057.
Pelouze Electric Heater Co. (See Madsen, Charles P., assignor.)
Penez, Charles E., San Francisco, Cal. Souvenir-badge. No. 41,422; June 6; Gaz. vol. 167; p. 216.
Perkins Electric Switch Manufacturing Company, The. (See Seeley, Frank E., assignor.)
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 41,072–80; Jan. 3; Gaz. vol. 162; pp. 252–4.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 41,407–10; May 23; Gaz. vol. 166; pp. 967–8.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 41,480; June 13; Gaz. vol. 167; p. 496.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 41,550; July 4; Gaz. vol. 168; p. 231.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 41,580–3; July 11; Gaz. vol. 168; pp. 502–3.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 41,600–3; July 18; Gaz. vol. 168; pp. 770–1.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 41,626–8; July 25; Gaz. vol. 168; p. 1012.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 41,663–5; Aug. 8; Gaz. vol. 169; p. 429.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 41,801; Sept. 19; Gaz. vol. 170; p. 691.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 41,936–43; Nov. 21; Gaz. vol. 172; pp. 800–1.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 41,959–61; Dec. 5; Gaz. vol. 173; p. 267.
Petzold, Adolph, assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. Nos. 42,017–18; Dec. 19; Gaz. vol. 173; pp. 835–6.
Philip Strobel & Sons. (See Strobel and Killian, assignors.)
Phillips & Clark Stove Company. (See Heister and Davids, assignors.)
Phoenix Glass Company, The. (See Wehr, George F., assignor.)
Pierce-Arrow Motor Car Company, The. (See Dawley, Herbert M., assignor.)
Pinch, William, Cleveland, Ohio. Scene for photographic foregrounds. No. 41,844; Oct. 17; Gaz. vol. 171; p. 722.
Pittsburg Lamp, Brass & Glass Company. (See Ewing, Robert E., assignor.)
Plume & Atwood Manufacturing Company, The. (See Andersen, Lauritz W., assignor.)
Poltorak, Marya, Nicetown, Pa. Inkstand. No. 42,060; Dec. 26; Gaz. vol. 173; p. 1058.
Poole, Elmer E., Boston, Mass. Combined tail-light, signplate, and holder. No. 41,660; Aug. 8; Gaz. vol. 169; p. 428.
Pooley, Edward F., Philadelphia, Pa., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Cabinet. Nos. 41,732–4; Aug. 29; Gaz. vol. 169; pp. 1160–1.
Powell, George H., Arlington, N. J. Tool member. No. 41,385; May 16; Gaz. vol. 166; p. 735.
Pratt, George H., White Plains, N. Y. Tumbler-holder. No. 41,296; Apr. 11; Gaz. vol. 165; p. 454.
Pretat, Frederick E., Waterbury, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 41,803; Sept. 26; Gaz. vol. 170; p. 911.
Prior, Charles M., New York, N. Y., assignor to S. L. and G. H. Rogers, Wallingford, Conn. Spoon, fork, or similar article. No. 41,462; June 13; Gaz. vol. 167; p. 493.
Prior, Charles M., and C. Nelson, New York, assignors to S. Sternau & Company, Brooklyn, N. Y. Chafing-dish and stand. No. 41,719; Aug. 29; Gaz. vol. 169; p. 1157.
Prior, Charles M., and C. Nelson, New York, assignors to S. Sternau & Company, Brooklyn, N. Y. Chafing-dish stand. No. 41,720; Aug. 29; Gaz. vol. 169; p. 1157.
Prior, Charles M., and C. Nelson, New York, assignors to S. Sternau & Company, Brooklyn, N. Y. Kettle and stand. No. 41,722; Aug. 29; Gaz. vol. 169; p. 1158.
Prosch, Carl F., Honesdale, Pa. Glass vessel. No. 41,465; June 13; Gaz. vol. 167; p. 494.
Pruchnitzky, Rudolf, McKees Rocks, assignor of one-half to B. Sassine, Pittsburg, Pa. Pinwheel. No. 41,517; June 27; Gaz. vol. 167; p. 961.
Puscizna, George, Amsterdam, N. Y. Knife. No. 41,983; Dec. 19; Gaz. vol. 173; p. 829.
Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)
Quebe, Carrie, Brenham, Tex. Poultry-fountain. No. 42,061; Dec. 26; Gaz. vol. 173; p. 1058.
R. Wallace & Sons Mfg. Co. (See Hillbom, Henrik, assignor.)
R. Wallace & Sons Mfg. Co. (See Leete, Murray B., assignor.)
R. Wallace & Sons Mfg. Co. (See Wallace, Henry L., assignor.)
R. E. Dietz Company. (See Betts, Charles L., assignor.)
Rapoport, Paul, New York, N. Y. Display-case. No. 41,975; Dec. 12; Gaz. vol. 173; p. 562.
Rauch & Lang Carriage Company, The. (See Lang and Gaffney, assignors.)
Rawson, Septimus J., Phoenicia, N. Y. Hoe. No. 41,595; July 18; Gaz. vol. 168; p. 769.
Read, Orrin B., Troy, N. Y. Rein-terret. No. 41,746; Sept. 5; Gaz. vol. 170; p. 217.
Reed & Barton Company. (See Dowse, William B. H., assignor.)
Reed & Barton Corporation. (See Ball, George E., assignor.)
Rees, Leon, London, England. Toy animal. Nos. 41,927–8; Nov. 14; Gaz. vol. 172; p. 525.
Reese, Harry S. (See Reese, William and H. S.)
Reese, William, Chester, W. Va., and H. S. Reese, Dayton, Ohio. Cone-serving device. No. 41,726; Aug. 29; Gaz. vol. 169; p. 1159.
Regal Hoof Pad Company. (See Leahy, Edward A. J., assignor.)
Reininger, August, San Francisco, Cal. Fob. No. 41,693; Aug. 22; Gaz. vol. 169; p. 921.
Reith, William G., New York, N. Y., assignor to The Bigelow Carpet Company. Rug. No. 41,302; Feb. 21; Gaz. vol. 163; p. 710.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,253–4; Mar. 14; Gaz. vol. 164; p. 489.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,448–9; June 6; Gaz. vol. 167; p. 221.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,481; June 13; Gaz. vol. 167; p. 497.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,509; June 20; Gaz. vol. 167; p. 742.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,510; June 20; Gaz. vol. 167; p. 742.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,650; Aug. 1; Gaz. vol. 169; p. 183.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,751; Sept. 5; Gaz. vol. 170; p. 218.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,019; Dec. 19; Gaz. vol. 173; p. 836.
Reith, William G., New York, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 42,037–8; Dec. 19; Gaz. vol. 173; p. 839.
Reznor, Jesse T., Mercer, Pa. Foot for stoves or similar articles. No. 41,658; Aug. 8; Gaz. vol. 169; p. 428.
Rice & Hochster. (See Skiff, James E., assignor.)
Richardot, Helene M., Detroit, Mich. Hood. No. 41,484; June 13; Gaz. vol. 167; p. 497.
Richards, Lewis F., Melville, N. J., assignor to Aubry Sisters, New York, N. Y. Bottle. No. 41,700; Aug. 22; Gaz. vol. 169; p. 923.
Riddell, Robert F., Flushing, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,020; Dec. 19; Gaz. vol. 173; p. 836.

Alphabetical list of patentees of designs—Continued.

Riddle, Robert F., Flushing, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,756; Sept. 5; Gaz. vol. 170; p. 219.
Ridout, John G., Baltimore, Md. Fruit-spoon. No. 41,832; Oct. 10; Gaz. vol. 171; p. 459.
Riggs, Thomas M., Amarillo, Tex. Tack. No. 41,838; Oct. 10; Gaz. vol. 171; p. 460.
Rindskopf, Abraham P., New York, N. Y. Swimming-bag. No. 41,797; Sept. 19; Gaz. vol. 170; p. 690.
Roberts, Elmer S., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Screw-driver. No. 41,896; Nov. 7; Gaz. vol. 172; p. 234.
Rochester Stamping Company. (See Swan, Alfred H. S., assignor.)
Rodrigues, Manuel R., New York, N. Y. Support for cot-beds. No. 41,541; July 4; Gaz. vol. 168; p. 229.
Roemer, Nicholas, and R. Hawksley, St. Louis, Mo. Bottle-cap remover. No. 42,062; Dec. 26; Gaz. vol. 173; p. 1058.
Roger Williams Silver Company. (See Bender, Theodore, assignor.)
Rogers, George H., *et al.* (See Prior, Charles M., assignor.)
Rogers, Lunt & Bowlen Company. (See Bowlen, William C., assignor.)
Rogers, Simeon L., *et al.* (See Prior, Charles M., assignor.)
Rose, Paul A., New York, N. Y., assignor to Acetylene Apparatus Manufacturing Company, Chicago, Ill. Gas-chandelier. No. 41,641; Aug. 1; Gaz. vol. 169; p. 182.
Rosenbluth, Edwin M., Philadelphia, Pa. Vehicle number-plate support. Nos. 41,388–9; May 16; Gaz. vol. 166; p. 735.
Rosenbluth, Edwin M., Philadelphia, Pa. Combination lamp and license-tag bracket. No. 41,609; July 25; Gaz. vol. 168; p. 1008.
Rosenbluth, Edwin M., Philadelphia, Pa. Combination lamp and license-tag bracket. No. 41,637; Aug. 1; Gaz. vol. 169; p. 181.
Rosenbluth, Edwin M., Philadelphia, Pa. Vehicle-number-plate support. No. 41,899; Nov. 7; Gaz. vol. 172; 234.
Rosenbluth, Edwin M., Philadelphia, Pa. Lamp-body. No. 41,971; Dec. 12; Gaz. vol. 173; p. 561.
Rosenbluth, Edwin M., Philadelphia, Pa. Combination lamp and license-tag bracket. No. 41,973; Dec. 12; Gaz. vol. 173; p. 562.
Rosenthal, David, New York, N. Y. Doll. Nos. 41,997–8; Dec. 19; Gaz. vol. 173; p. 832.
Rosetstein, Benjamin, New York, N. Y. Doll. No. 41,730; Aug. 29; Gaz. vol. 169; p. 1160.
Royal Comb Co. (See Hadley and Holden, assignors.)
Royce, Charles W., Montclair, N. J. Golf-ball. No. 41,698; Aug. 22; Gaz. vol. 169; p. 922.
Rubenstein, Barnett, Chicago, Ill. Spreader member for the bars of automobile-tops. No. 41,597; July 18; Gaz. vol. 168; p. 770.
Rubes, Ernest, Brooklyn, N. Y. Automobile-horn. No. 41,207; Feb. 28; Gaz. vol. 163; p. 959.
Rubes, Ernest, Brooklyn, N. Y. Automobile-horn. No. 41,345; May 2; Gaz. vol. 166; p. 229.
Rubes, Louis, Brooklyn, N. Y. Automobile-horn. No. 41,346; May 2; Gaz. vol. 166; p. 229.
Rubes, Louis, Brooklyn, N. Y. Automobile-horn. No. 41,399; May 23; Gaz. vol. 166; p. 965.
Ruckes, Michael, assignor to National Scale Company, Chicopee Falls, Mass. Scale-frame. No. 41,304; Apr. 11; Gaz. vol. 165; p. 455.
Ryan, Walter D., Watertown, S. D., assignor to General Electric Company. Diffusing-globe for incandescent-lamp clusters. No. 41,784; Sept. 19; Gaz. vol. 170; p. 687.
S. F. Bowser & Company. (See Grosvenor, Herbert J., assignor.)
Safety Car Heating & Lighting Company, The. (See Schepmoes, Lindsley, assignor.)
Salisbury, Charles K., Milwaukee, Wis., assignor to Standard Separator Company. Centrifugal-separator casing. No. 41,383; May 16; Gaz. vol. 166; p. 734.
Sampliner, Samuel S., Cleveland, Ohio. Neckscarf or muffler. No. 41,088; Jan. 10; Gaz. vol. 162; p. 525.
Sanders, Albert D., and W. H. Lloyd, Chicago, Ill., assignors to Federal-Huber Company, Chicago, Ill. Water-closet bowl. No. 41,333; Apr. 25; Gaz. vol. 165; p. 953.
Sanford, Andrew J., Newark, Ohio. Dish. No. 41,533; July 4; Gaz. vol. 168; p. 228.
Sanford, Andrew J., Newark, Ohio. Sugar-bowl or similar article. No. 41,764; Sept. 12; Gaz. vol. 170; p. 456.
Sanford, Andrew J., assignor to A. H. Heisey & Co., Inc., Newark, Ohio. Candlestick. No. 41,590; July 18; Gaz. vol. 168; p. 768.
Sassine, Bedwi. (See Pruchnitzky, Rudolf, assignor.)
Sauer, Emil G., Richmond Hill, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 41,112–14; Jan. 17; Gaz. vol. 162; p. 766.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,138–42; Jan. 24; Gaz. vol. 162; pp. 981–2.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,162–4; Feb. 7; Gaz. vol. 163; pp. 215–16.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,195; Feb. 21; Gaz. vol. 163; p. 708.
Sauer, Emil G., Richmond Hill, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 41,200–1; Feb. 21; Gaz. vol. 163; pp. 709–10.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,225–6; Mar. 7; Gaz. vol. 164; p. 232.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,255; Mar. 14; Gaz. vol. 164; p. 489.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,315–16; Apr. 11; Gaz. vol. 165; p. 457.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,459; June 6; Gaz. vol. 167; p. 223.
Sauer, Emil G., Richmond, Hill, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,476; June 13; Gaz. vol. 167; p. 495.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,529–30; June 27; Gaz. vol. 167; p. 963.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,629–30; July 25; Gaz. vol. 168; p. 1012.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company, Carpet. Nos. 41,651–2; Aug. 1; Gaz. vol. 169; p. 184.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,666; Aug. 8; Gaz. vol. 169; p. 429.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,674; Aug. 8; Gaz. vol. 169; p. 431.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,757; Sept. 5; Gaz. vol. 170; p. 219.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,021–5; Dec. 19; Gaz. vol. 173; pp. 836–7.
Sauer, Emil G., Richmond Hill, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,039; Dec. 19; Gaz. vol. 173; p. 840.
Sayer, Enoch, Springfield, Ohio. Cane-head. No. 41,954; Dec. 5; Gaz. vol. 173; p. 266.
Sayers, William E., assignor to The Hartford Carpet Corporation, Thompsonville, Conn. Carpet or rug. Nos. 42,063–5; Dec. 26; Gaz. vol. 173; p. 1058.
Schade, John, Jr., New York, N. Y., assignor to Fahnestock Electric Company. Spring fastening device for electrical conductors. No. 41,493; June 20; Gaz. vol. 167; p. 739.
Schaffhausen, Peter, Indianapolis, Ind. Vehicle coupé-body. No. 41,223; Mar. 7; Gaz. vol. 164; p. 232.
Scheidecker, Frank. (See Scheidecker, Paul and F.)
Scheidecker, Paul and F., Paris, France, assignors to Cheney Brothers, South Manchester, Conn. Textile fabric. No. 41,912; Nov. 7; Gaz. vol. 172; p. 236.
Schepmoes, Lindsley, Hasbrouck Heights, N. J., assignor to The Safety Car Heating & Lighting Company. Lamp. No. 41,591; July 18; Gaz. vol. 168; p. 768.
Scheuer, Solomon. (See Levy, Louis, assignor.)
Schindler, Francis, Scarsdale, N. Y., assignor to The Bigelow Carpet Company. Rug. No. 41,143; Jan. 24; Gaz., vol. 162; p. 983.
Schindler, Francis, Scarsdale, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,165–6; Feb. 7; Gaz. vol. 163; p. 216.
Schindler, Francis, Scarsdale, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,232; Mar. 7; Gaz. vol. 164; p. 234.
Schindler, Francis, Scarsdale, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,420; May 30; Gaz. vol. 166; p. 1264.
Schindler, Francis, Scarsdale, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,450–1; June 6; Gaz. vol. 167; p. 221.
Schindler, Francis, Scarsdale, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,575–7; July 11; Gaz. vol. 168; pp. 501–2.
Schindler, Francis, Scarsdale, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,026–7; Dec. 19; Gaz. vol. 173; pp. 837–8.
Schindler, Francis, Scarsdale, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 42,040; Dec. 19; Gaz. vol. 173; p. 840.
Schmidt, William F. (See Conrad and Schmidt.)
Scholz, Anton, assignor to Frank W. Smith Company, Gardner, Mass. Handle for spoons or forks. No. 41,695; Aug. 22; Gaz. vol. 169; p. 922.
Schramm, William P., New York, N. Y. Collar. No. 41,549; July 4; Gaz. vol. 168; p. 231.
Schraubstadter, William A., St. Louis, Mo. Font of type. No. 41,336; Apr. 25; Gaz. vol. 165; p. 953.

Alphabetical list of patentees of designs—Continued.

Schwartz, Edward, Chicago, Ill. Electric hair-singer. No. 41,898; Nov. 7; Gaz. vol. 172; p. 234.
Schwartz, Kirwin & Fauss. (See Martin and Borst, assignors.)
Seeley, Frank E., assignor to The Perkins Electric Switch Manufacturing Company, Bridgeport, Conn. Electric-switch handle. No. 41,494; June 20; Gaz. vol. 167; p. 739.
Selle, Albert, New York, N. Y. Shade and curtain holder or similar article. No. 41,435; June 6; Gaz. vol. 167; p. 218.
Selle, Albert, New York, N. Y. Shade-holder or similar article. No. 41,988; Dec. 19; Gaz. vol. 173; p. 830.
Sellon, Charles H., *et al.* (See Gegenheimer, George, assignor.)
Sessions, Anna M., Chicago, Ill., assignor to Onondaga Pottery Company, Syracuse, N. Y. Plate or dish. No. 41,427; June 6; Gaz. vol. 167; p. 217.
Shanley, Thomas A., assignor to International Silver Co., Meriden, Conn. Cut-glass vessel or similar article. No. 41,091; Jan. 17; Gaz. vol. 162; p. 761.
Shawmut Tire Co. (See Hood, Arthur N., assignor.)
Shearer, John P., Nyack, N. Y. Sign. No. 41,309; Apr. 11; Gaz. vol. 165; p. 455.
Shee, Frederick W., Lancaster, assignor of one-half to R. P. Wilton, Wrightsville, Pa. Receptacle for dispensing drinking-straws. No. 41,859; Oct. 24; Gaz. vol. 171; p. 960.
Shepard Manufacturing Company. (See Koonz, Frederick W., assignor.)
Sherer, Samuel J. (See Sherer, William G. and S. J.)
Sherer, William G. and S. J., Chicago, Ill. Combination-counter. No. 41,208; Feb. 28; Gaz. vol. 163; p. 959.
Shreve & Co. (See Lewis, George B., assignor.)
Shutt, Albert, Topeka, Kans. Body for stringed musical instruments. No. 41,792; Sept. 19; Gaz. vol. 170; p. 689.
Siegel, Adolph, New York, N. Y. Collar. No. 41,483; June 13; Gaz. vol. 167; p. 497.
Siegel, Henry, New York, N. Y. Trading-stamp. No. 41,323; Apr. 25; Gaz. vol. 165; p. 951.
Silver, Hyman, Brooklyn, N. Y. Refrigerator. No. 41,334; Apr. 25; Gaz. vol. 165; p. 953.
Simon, Walter, Charleston, S. C. Collar. No. 41,904; Nov. 7; Gaz. vol. 172; p. 235.
Sinclair, B. K. (See Harris, Minnie M., assignor.)
Sinclaire, Henry P., assignor to H. P. Sinclaire & Company, Corning, N. Y. Glass vessel or similar article. No. 41,204; Feb. 28; Gaz. vol. 163; p. 958.
Sins, Emile, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Nos. 41,913–18; Nov. 7; Gaz. vol. 172; pp. 236–7.
Skiff, James E., East Orange, N. J., assignor to Rice & Hochster, New York, N. Y. Barrette. No. 41,360; May 9; Gaz. vol. 166; p. 491.
Smith, Henry J., Buffalo, N. Y. Flower-pot cover. No. 41,710; Aug. 22; Gaz. vol. 169; p. 924.
Smith, Joseph R., assignor to The Waterbury Button Company, Waterbury, Conn. Belt-buckle. No. 41,814; Oct. 3; Gaz. vol. 171; p. 199.
Smith, Sidney S., assignor to The Goulds Manufacturing Company, Seneca Falls, N. Y. Power-pump or similar article. No. 41,271; Mar. 28; Gaz. vol. 164; p. 955.
Smith, William L., assignor to Taylor, Smith & Taylor Company, East Liverpool, Ohio. Plate. No. 41,986; Dec. 19; Gaz. vol. 173; p. 830.
Smith, William T., Philadelphia, Pa. Woven rug. No. 41,868; Oct. 24; Gaz. vol. 171; p. 962.
Sommer, John L., Newark, N. J., assignor to J. L. Sommer Mfg. Co. Bottle-opener. Nos. 41,894–5; Nov. 7; Gaz. vol. 172; p. 233.
Spaney, Alfred, Piermont, and J. W. Mayer, New York, N. Y. Jewel-setting. No. 41,981; Dec. 19; Gaz. vol. 173; p. 829.
Sparks, William, Jackson, Mich. Megaphone. No. 41,825; Oct. 3; Gaz. vol. 171; p. 201.
Spellman, Herbert W., assignor to Landers, Frary and Clark, New Britain, Conn. Stand for electrically-driven machines. No. 41,795; Sept. 19; Gaz. vol. 170; p. 689.
Spencer, John R., Bartow, Fla. Baby-carriage body. No. 41,354; May 2; Gaz. vol. 166; p. 231.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,144–5; Jan. 24; Gaz. vol. 162; p. 983.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,167–71; Feb. 7; Gaz. vol. 163; pp. 216–17.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,227; Mar. 7; Gaz. vol. 164; p. 233.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,248; Mar. 14; Gaz. vol. 164; p. 488.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,416–17; May 30; Gaz. vol. 166; p. 1263.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,456–7; June 6; Gaz. vol. 167; pp. 222–3.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,531; June 27; Gaz. vol. 167; p. 963.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,584; July 11; Gaz. vol. 168; p. 503.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,631; July 25; Gaz. vol. 168; p. 1013.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,667–8; Aug. 8; Gaz. vol. 169; p. 430.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,675; Aug. 8; Gaz. vol. 169; p. 431.
Spring, John, New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,028; Dec. 19; Gaz. vol. 173; p. 838.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,118–21; Jan. 17; Gaz. vol. 162; pp. 767–8.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,317; Apr. 11; Gaz. vol. 165; p. 457.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,418–19; May 30; Gaz. vol. 166; p. 1264.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,452–5; June 6; Gaz. vol. 167; pp. 221–2.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,578; July 11; Gaz. vol. 168; p. 502.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,625; July 25; Gaz. vol. 168; p. 1011.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,758–9; Sept. 5; Gaz. vol. 170; pp. 219–20.
Spring, William A., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 42,029–30; Dec. 19; Gaz. vol. 173; p. 838.
Stack, George B., Sacramento, Cal. Casing for soap-powder-dispensing apparatus. No. 41,789; Sept. 19; Gaz. vol. 170; p. 688.
Stallings, Charles, Chicago, Ill. Post-card. Nos. 41,187–8; Feb. 21; Gaz. vol. 163; p. 707.
Standard Separator Company. (See Salisbury, Charles K., assignor.)
Stanley Works. (See Hart, Walter H., assignor.)
Steimer, Theodore C., Pittsburg, Pa. Glass vessel. No. 41,092; Jan. 17; Gaz. vol. 162; p. 761.
Stember, David S., assignor to Guthman, Solomons & Company, New York, N. Y. Hand-bag. No. 41,482; June 13; Gaz. vol. 167; p. 497.
Stenman, Karl, New York, N. Y. Frame for cigar-cutters. No. 42,066; Dec. 26; Gaz. vol. 173; p. 1059.
Stephenson, Frederick G., assignor to The Osborne & Stephenson Manufacturing Company, Plainville, Conn. Casing for lubricators. No. 41,398; May 23; Gaz. vol. 166; p. 965.
Sternau & Company, S. (See Nelson, Charles, assignor.)
Sternau & Company, S. (See Nelson and Strassburger, assignors.)
Sternau & Company, S. (See Prior and Nelson, assignors.)
Sternau & Company, S. (See Sternau, Sigmund, assignor.)
Sternau & Company, S. (See Strassburger, Nelson, and Barker, assignors.)
Sternau, Sigmund, assignor to S. Sternau & Company, New York, N. Y. Tooth-brush holder. No. 41,679; Aug. 15; Gaz. vol. 169; p. 679.
Sternau, Sigmund, assignor to S. Sternau & Company, New York, N. Y. Stand. No. 41,687; Aug. 15; Gaz. vol. 169; p. 681.
Stevens, Charles K., New York, N. Y., assignor to The J. B. Williams Company, Glastonbury, Conn. Label-blank. No. 42,067; Dec. 26; Gaz. vol. 173; p. 1059.
Stewart, Pritchard, assignor to Hibbard Spencer Bartlett & Co., Chicago, Ill. Handle for spoons, forks, or similar articles. Nos. 41,487–8; June 20; Gaz. vol. 167; p. 738.
Stimmel, Frederick C., Chattanooga, Tenn., assignor to The Casey-Hedges Company, Cincinnati, Ohio. Standard for lights. No. 41,439; June 6; Gaz. vol. 167; p. 219.
Stimpson Scale and Manufacturing Company. (See Stimpson, Walter F., assignor.)
Stimpson, Walter F., Detroit, assignor to Stimpson Scale and Manufacturing Company, Northville, Mich. Scale-base. No. 41,350; May 2; Gaz. vol. 166; p. 230.
Stippich, Edward A., St. Louis, Mo. Combination slate, match-holder, and file. No. 42,068; Dec. 26; Gaz. vol. 173; p. 1059.
Stone, Frank P., Chicago, Ill. Automobile-body. No. 41,827; Oct. 3; Gaz. vol. 171; p. 201.
Strassburger, Homer. (See Nelson and Strassburger.)
Strassburger, Lionel, C. Nelson, and W. G. Barker, New York, assignors to S. Sternau & Company, Brooklyn, N. Y. Towel-rack. No. 41,567; July 11; Gaz. vol. 168; p. 500.
Strauss, Edward E., Chicago, Ill. Display-desk for sample-books, sample-cards, and swatches. No. 41,863; Oct. 24; Gaz. vol. 171; p. 961.

Alphabetical list of patentees of designs—Continued.

Strawbridge & Clothier. (See Durbin, Robert H., assignor.)
Strickhouser, Carlos. (See Aaron and Strickhouser.)
Strobel, Herman C., New York, and L. Killian, Brooklyn, assignors to Philip Strobel & Sons, New York, N. Y. Table. No. 41,290; Apr. 4; Gaz. vol. 165; p. 228.
Strobel, Herman C., New York, and L. Killian, Brooklyn, assignors to P. Strobel & Sons, New York, N. Y. Table. No. 41,500; June 20; Gaz. vol. 167; p. 740.
Strobel & Sons, Philip. (See Strobel and Killian, assignors.)
Strohhaker, Gustave, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 41,804; Sept. 26; Gaz. vol. 170; p. 912.
Strohhaker, Gustave, Wallingford, assignor to International Silver Co., Meriden, Conn. Spoon, fork, or similar article. No. 41,851; Oct. 24; Gaz. vol. 171; p. 959.
Supreme National Nest, Improved Order Owls. (See Van Sise, George E., assignor.)
Susquehanna Silk Mills. (See Fauser, Gustave M., assignor.)
Sutherland, Charles A., Alameda, Cal. Bottle. No. 41,855; Oct. 24; Gaz. vol. 171; p. 959.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Vapor-lamp. No. 41,610; July 25; Gaz. vol. 168; p. 1008.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Chafing-dish. Nos. 41,716–17; Aug. 29; Gaz. vol. 169; p. 1156.
Swan, Alfred H. S., assignor to Rochester Stamping Company, Rochester, N. Y. Chafing-dish stand. No. 41,718; Aug. 29; Gaz. vol. 169; p. 1157.
T. E. Bennett Company. (See Field, Walter E., assignor.)
Taggart, Elmer E., New York, N. Y. Electric lamp. No. 41,302; Apr. 11; Gaz. vol. 165; p. 454.
Taylor, Edward E. (See Gray and Taylor.)
Taylor, Edward E., Chelsea, assignor to W. Gray, Amesbury, Mass. Signal-lamp. No. 41,215; Mar. 7; Gaz. vol. 164; p. 230.
Taylor, Edward E., Chelsea, assignor to W. Gray, Amesbury, Mass. Pillar-lamp. No. 41,216; Mar. 7; Gaz. vol. 164; p. 230.
Taylor, Smith & Taylor Company. (See Smith, William L., assignor.)
Teague, Walter D., New York, N. Y., assignor to The J. B. Williams Company, Glastonbury, Conn. Label-blank. No. 41,978; Dec. 12; Gaz. vol. 173; p. 563.
Thayer, Emma R. L., Hastings-on-the-Hudson, N. Y., assignor to Bruguier Chemical Co., Newark, N. J. Carton. No. 41,149; Jan. 31; Gaz. vol. 162; p. 1171.
Thayer, Henry W., New York, N. Y. Lamp-shade. No. 41,821; Oct. 3; Gaz. vol. 171; p. 200.
Thomas & Betts Company. (See Wade and Kerins, assignors.)
Thomas Maddock's Sons Company. (See Kelly, John F., assignor.)
Tibbetts, Milton, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Bumper for carriages and motor-vehicles. No. 41,367; May 9; Gaz. vol. 166; p. 493.
Tibbetts, Milton, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Handle for carriage-doors, caskets, &c. No. 41,368; May 9; Gaz. vol. 166; p. 493.
Tibbetts, Milton, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Casing for sight-feed lubricators. No. 41,369; May 9; Gaz. vol. 166; p. 493.
Tibbetts, Milton, assignor, by mesne assignments, to Packard Motor Car Company, Detroit, Mich. Vehicle-tire. No. 41,400; May 23; Gaz. vol. 166; p. 966.
Tibbetts, Milton, assignor, by mesne assignments, to Packard-Motor Car Company, Detroit, Mich. Pedal. No. 41,775; Sept. 12; Gaz. vol. 170; p. 459.
Tilden, Bert O., assignor to American Sanitary Works, New York, N. Y. Water-closet bowl. No. 41,793; Sept. 19; Gaz. vol. 170; p. 689.
Tilford, Frank, New York, N. Y. Canister. No. 41,239; Mar. 14; Gaz. vol. 164; p. 486.
Tingue Manufacturing Company, The. (See Fauser, Gustave M., assignor.)
Toledo Electric Welder Company, The. (See Macneale, Neil, assignor.)
Torley, Harry G., Oakland, Cal., assignor of one-half to W. H. Goldson, St. Louis, Mo. Illuminated-sign lens. No. 41,683; Aug. 15; Gaz. vol. 169; p. 680.
Travis, Clarence C. (See Davis, Bethuel M., assignor.)
Travis, Clarence C., Chicago, Ill. Coin-receiver. No. 41,468; June 13; Gaz. vol. 167; p. 494.
Tremaine, Charles M., Westfield, N. J. Piano-pedal. No. 42,069; Dec. 26; Gaz. vol. 173; p. 1059.
Trik, Ernest W., Brooklyn, N. Y., assignor to The Bigelow Carpet Company. Rug. No 41,146; Jan. 24; Gaz. vol. 162; p. 983.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,172–3; Feb. 7; Gaz. vol. 163; p. 218.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,229; Mar. 7; Gaz. vol. 164; p. 233.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,249; Mar. 14; Gaz. vol. 164; p. 488.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,585; July 11; Gaz. vol. 168; p. 503.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,632; July 25; Gaz. vol. 168; p. 1013.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,752; Sept. 5; Gaz. vol. 170; p. 218.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,760; Sept. 5; Gaz. vol. 170; p. 220.
Trik, Ernest W., Brooklyn, N. Y., assignor to Bigelow Carpet Company. Rug. No. 42,031; Dec. 19; Gaz. vol. 173; p. 838.
Turner, Albert, assignor to International Silver Co., Meriden, Conn. Cut-glass vessel. No. 41,833; Oct. 10; Gaz. vol. 171; p. 459.
Ullman, George H., assignor to L. Plaut & Company, New York, N. Y. Electrolier-body. Nos. 41,379–82; May 16; Gaz. vol. 166; pp. 733–4.
Universal Brush Company, The. (See Alexander, Henry, assignor.)
Universal Hydro-Carbon Gas Company. (See Conner, Herschel M., assignor.)
Unke, Otto C. (See Unke, William H. and O. C.)
Unke, William H. and O. C., Milwaukee, Wis. Casing for horn-blowers. No. 41,861; Oct. 24; Gaz. vol. 171; p. 960.
Van Denburgh, Albert S., North Plainfield, N. J., assignor to The Lowres Optical Company. Nose-guard for eyeglasses. No. 41,324; Apr. 25; Gaz. vol. 165; p. 951.
Van Sise, George E., Brooklyn, N. Y., assignor to Supreme National Nest, Improved Order Owls, York, Pa. Badge or emblem. No. 41,962; Dec. 12; Gaz. vol. 173; p. 560.
Vandewart, Mark, New York, N. Y. Scarf-pin or similar article. No. 41,850; Oct. 24; Gaz. vol. 171; p. 958.
Vaughan, Harry L., Chicago, Ill. Bottle-cap remover. No. 42,070; Dec. 26; Gaz. vol. 173; p. 1059.
Verreault, George T., assignor to E. R. Thomas Motor Company, Buffalo, N. Y. Cap for automobile radiator-fillers. No. 41,596; July 18; Gaz. vol. 168; p. 769.
Victor Talking Machine Company. (See English, John C., assignor.)
Vogan, Frank M., Canton, Ohio. Roofing-tile. No. 41,353; May 2; Gaz. vol. 166; p. 230.
Vogan, Frank M., Canton, Ohio. Roofing-tile. No. 41,709; Aug. 22; Gaz. vol. 169; p. 924.
Vogan, Frank M., Canton, Ohio. Roofing-tile. Nos. 41,828–30; Oct. 3; Gaz. vol. 171; pp. 201–2.
Vogan, Frank M., Canton, Ohio. Roofing-tile. No. 42,071; Dec. 26; Gaz. vol. 173; p. 1060.
Vogan, Frank M., Canton, Ohio, assignor to The Dickelman Manufacturing Company, Forest, Ohio. Roofing-tile. Nos. 41,798–9; Sept. 19; Gaz. vol. 170; p. 690.
W. H. Johnson & Son Co. (See Johnson, Jesse W., assignor.)
W. J. Feeley Co., The. (See Hardy, John G., assignor.)
Wade, William O., and R. E. Kerins, assignors to Thomas & Betts Company, New York, N. Y. Electrical receptacle. No. 41,218; Mar. 7; Gaz. vol. 164; p. 231.
Wadsworth, John W., Drayton, assignor to Mintons Limited, Stoke-upon-Trent, England. Plate or similar article. Nos. 41,655–6; Aug. 8; Gaz. vol. 169; pp. 427–8.
Wagner, Bernard P., assignor to The Wagner Manufacturing Co., Sidney, Ohio. Tea-kettle. No. 41,968; Dec. 12; Gaz. vol. 173; p. 561.
Wagner Manufacturing Co., The. (See Wagner, Bernard P., assignor.)
Wagner, Robert C., Jr., Champaign, Ill. Fraternity badge or emblem. No. 41,761; Sept. 12; Gaz. vol. 170; p. 456.
Waite, John H., Brockton, Mass. Shoe. No. 41,209; Feb. 28; Gaz. vol. 163; p. 959.
Waldon, Sidney D., Detroit, Mich. Vehicle-body. No. 41,598; July 18; Gaz. vol. 168; p. 770.
Waldon, Sidney D., assignor to Packard Motor Car Company, Detroit, Mich. Vehicle-body. Nos. 41,544–8; July 4; Gaz. vol. 168; pp. 230–1.
Walker, Eli M., assignor to The Parker Clock Company, Meriden, Conn. Alarm-clock case. No. 41,967; Dec. 12; Gaz. vol. 173; p. 561.
Walker, Fredrick H., Newtown, Pa. Pile fabric. No. 41,246; Mar. 14; Gaz. vol. 164; p. 487.
Walker, Jolliffe, Montreal, Quebec, Canada. Statuette. No. 41,361; May 9; Gaz. vol. 166; p. 492.
Wallace, Henry L., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon, fork, or similar article. No. 41,065; Jan. 3; Gaz. vol. 162; p. 251.
Wanner, Edwin P., New York, N. Y. Arm-chair. No. 41,617; July 25; Gaz. vol. 168; p. 1010.
Warrender, Raymond, Richmond Hill, N. Y. Lithographed paper. No. 41,224; Mar. 7; Gaz. vol. 164; p. 232.
Waterbury Button Company, The. (See Smith, Joseph R., assignor.)
Waterbury Mfg. Co. (See Evans, Dennet E., assignor.)
Watson & Newell Company. (See Heath, Thomas, assignor.)

Alphabetical list of patentees of designs—Continued.

Way, John H., St. Davids, Pa. Flat-knit neckscarf. No. 41,519; June 27; Gaz. vol. 167; p. 961.
Wearne, Harry, Rixheim, Alsace, Germany. Wall-paper. No. 41,812; Sept. 26; Gaz. vol. 170; p. 913.
Weatherhogg, Charles R., Fort Wayne, Ind. Lamp-post. No. 41,518; June 27; Gaz. vol. 167; p. 961.
Weatherly, Sidney M., assignor to Keystone Type Foundry, Philadelphia, Pa. Font of type. No. 41,245; Mar. 14; Gaz. vol. 164; p. 487.
Webster, John, East Providence, R. I. Shaving-brush. No. 41,266; Mar. 28; Gaz. vol. 164; p. 954.
Webster, John, East Providence, R. I. Hair-brush. No. 41,768; Sept. 12; Gaz. vol. 170; p. 457.
Wehr, George F., Rochester, assignor to The Phoenix Glass Company, Monaca, Pa. Glass lamp-shade. No. 41,240; Mar. 14; Gaz. vol. 164; p. 486.
Weigang, Rudolf, Bautzen, Germany, assignor to C. O. v. Kokeritz, Mount Vernon, N. Y. Cigar-label blank. No. 41,837; Oct. 10; Gaz. vol. 171; p. 460.
Weinreb Brothers. (See Fauser, Gustave M., assignor.)
Weinstock, Davis, New York, N. Y. Display-case. No. 41,370; May 9; Gaz. vol. 166; p. 493.
Weintraub, Morris, New York, N. Y. Kettle and stand. No. 41,191; Feb. 21; Gaz. vol. 163; p. 707.
Weintraub, Morris, New York, N. Y. Teapot, coffee-pot, or similar article. No. 41,765; Sept. 12; Gaz. vol. 170; p. 457.
Welch, Robert A., Dover, N. J. Bottle-rack. No. 41,364; May 9; Gaz. vol. 166; p. 492.
Welles, Richard H., assignor to The Badger Brass Manufacturing Company, Kenosha, Wis. Headlight. No. 41,397; May 23; Gaz. vol. 166; p. 965.
Welles, Richard H., assignor to The Badger Brass Manufacturing Company, Kenosha, Wis. Headlight. No. 41,744; Sept. 5; Gaz. vol. 170; p. 216.
Welsbach Light Company. (See Litle, Thomas J., Jr., assignor.)
Welsbach Light Company. (See Macbeth, Norman, assignor.)
West, George R., Pittsburg, Pa. Candlestick. No. 41,256; Mar. 21; Gaz. vol. 164; p. 721.
West, James E., Washington, D. C. Badge. No. 41,532; July 4; Gaz. vol. 168; p. 227.
Western Clock Manufacturing Company, The. (See Kern, George, assignor.)
Westmoreland Specialty Company. (See Haley, Reuben, assignor.)
Weston, Edward, Newark, N. J., assignor to Weston Electrical Instrument Company, Waverly Park, N. J. Index needle or hand for electrical measuring instruments. No. 41,349; May 2; Gaz. vol. 166; p. 230.
Weston Electrical Instrument Company. (See Weston, Edward, assignor.)
Wheelock, Edwin M., Winona, Minn. Traction-engine body. No. 41,707; Aug. 22; Gaz. vol. 169; p. 924.
Wheelock, John H., Worcester, Mass. Metallic gate. No. 41,307; Apr. 11; Gaz. vol. 165; p. 455.
Whelan, Franklin A., Mount Vernon, Va. Spoon, fork, or similar article. No. 41,815; Oct. 3; Gaz. vol. 171; p. 199.
White, Edwin L., assignor to J. H. White Manufacturing Co., Brooklyn, N. Y. Shell for lighting-fixtures. No. 41,083; Jan. 10; Gaz. vol. 162; p. 525.
White, Edwin L., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Trimming for lighting-fixtures. No. 41,084; Jan. 10; Gaz. vol. 162; p. 525.
White, Edwin L., assignor to J. H. White Manufacturing Co., Brooklyn, N. Y. Extension-ring and body-shell for chandeliers and lighting-fixtures. Nos. 41,990–2; Dec. 19; Gaz. vol. 173; pp. 830–1.
Whitelaw, Frank J., Chicago, Ill. Player-piano case. No. 41,826; Oct. 3; Gaz. vol. 171; p. 201.
Whittall, Matthew J. (See Haas, Frank A., assignor.)
Wiggin, Joseph N., East Orange, assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J. Fabric or paper for covering walls or book-covers. No. 41,572; July 11; Gaz. vol. 168; p. 501.
Wiggin, Joseph N., East Orange, assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J. Wall or book covering. No. 41,865; Oct. 24; Gaz. vol. 171; p. 961.
Wilbur, George E., Taunton, Mass. Mantel-shelf. No. 41,498; June 20; Gaz. vol. 167; p. 740.
Will, Blanca, Rochester, N. Y. Stove-body. No. 41,442; June 6; Gaz. vol. 167; p. 220.
Will, Blanca, Rochester, N. Y. Stove-base. Nos. 41,443–4; June 6; Gaz. vol. 167; p. 220.
Will, Blanca, Rochester, N. Y. Stove-shelf. No. 41,445; June 6; Gaz. vol. 167; p. 220.
Willard, Theodore A., Cleveland, Ohio. Filament for electric lamps. No. 41,873; Oct. 31; Gaz. vol. 171; p. 1232.
Williams, Francis M., Jr., Toledo, Ohio. Show-case. No. 42,072; Dec. 26; Gaz. vol. 173; p. 1060.
Willys-Overland Automobile Company, The. (See Cameron, William H., assignor.)
Wilson, Clarence L., Camden, N. J., assignor to J. Bromley & Sons, Philadelphia, Pa. Rug. No. 41,411; May 23; Gaz. vol. 166; p. 968.
Wilton, Ralph P. (See Shee, Frederick W., assignor.)
Wishart, Joseph, Brooklyn, N. Y., assignor to Bigelow Carpet Company. Carpet. Nos. 41,753–4; Sept. 5; Gaz. vol. 170; p. 218.
Witzel, John H., New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,109–10; Jan. 17; Gaz. vol. 162; p. 765.
Witzel, John H., New York, N. Y., assignor to The Bigelow Carpet Company. Rug. Nos. 41,147–8; Jan. 24; Gaz. vol. 162; p. 984.
Witzel, John H., New York, N. Y., assignor to Bigelow Carpet Company. Rug. Nos. 41,230–1; Mar. 7; Gaz. vol. 164; pp. 233–4.
Witzel, John H., New York, N. Y., assignor to Bigelow Carpet Company. Rug. No. 41,421; May 30; Gaz. vol. 166; p. 1264.
Witzel, John H., New York, N. Y., assignor to Bigelow Carpet Company. Carpet. No. 41,526; June 27; Gaz. vol. 167; p. 962.
Wurmb, Theodore H., and R. Baumann, assignors to National Clock & Electric Manufacturing Co., St. Louis, Mo. Thermometer-casing. No. 41,534; July 4; Gaz. vol. 168; p. 228.
Wurmb, Theodore H., and R. Baumann, assignors to National Clock & Electric Manufacturing Co., St. Louis, Mo. Self-recording-thermometer casing. No. 41,592; July 18; Gaz. vol. 168; p. 769.
Yale & Towne Manufacturing Company, The. (See Ledin, Charles L., assignor.)
Yerkes, Hulbert A., New York, N. Y., assignor to American Graphophone Company, Bridgeport, Conn. Cabinet for talking-machines. No. 41,902; Nov. 7; Gaz. vol. 172; p. 235.
Young, Lorin W., New York, N. Y. Lamp-shade. No. 41,680; Aug. 15; Gaz. vol. 169; p. 679.
Ziegler, Alfred M., Boston, Mass. Clasp. No. 41,343; May 2; Gaz. vol. 166; p. 229.
Ziegler, Charles, Limoges, France, assignor to The J. Pouyat Company, New York, N. Y. Vase or similar article. Nos. 41,362–3; May 9; Gaz. vol. 166; p. 492
Zinser, Paul R., assignor to The Cincinnati Coffin Company, Cincinnati, Ohio. Handle for burial-caskets. No. 41,540; July 4; Gaz. vol. 168; p. 229.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. Mönsted Co., Milwaukee, Wis. Antifreezing compound. No. 83,759; Oct. 10; Gaz. vol. 171; p. 478.
A. Schoenhut Company, The, Philadelphia, Pa. Dolls. Nos. 82,178–9; June 6; Gaz. vol. 167; p. 238.
A. Stein & Company, Chicago, Ill. Hose-supporters. No. 80,685; Jan. 17; Gaz. vol. 162; p. 780.
A. Steinhardt & Bro., New York, N. Y. Dolls and their apparel. No. 83,288; Aug. 29; Gaz. vol. 169; p. 1181.
A. Steinhardt & Bro., New York, N. Y. Dolls. No. 83,610; Sept. 26; Gaz. vol. 170; p. 925.
A. B. Dick Company, Chicago, Ill. Stencil-paper. No. 81,203; Mar. 14; Gaz. vol. 164; p. 503.
A. B. Dick Company, Chicago, Ill. Duplicating-ink. No. 81,204; Mar. 14; Gaz. vol. 164; p. 503.
A. B. Dick Company, Chicago, Ill. Duplicating-machines and parts thereof. No. 81,205; Mar. 14; Gaz. vol. 164; p. 503.
A. B. Stove Company, Battle Creek, Mich. Gas and gasolene ovens, stoves, ranges, and burners. No. 83,800; Oct. 17; Gaz. vol. 171; p. 739.
A. C. Clark & Company, Chicago, Ill. Antiseptic solution, tooth paste and powder. No. 83,716; Oct. 10; Gaz. vol. 171; p. 477.
A. C. Lawrence Leather Co., Boston, Mass. Finished leather. No. 83,586; Sept. 26; Gaz. vol. 170; p. 924.
A. D. Howe Machine Company, Wheeling, W. Va. Laundry washing-machines. No. 81,712; May 2; Gaz. vol. 166; p. 246.
A. E. Nettleton Company, Syracuse, N. Y. Men's and boys' shoes. No. 82,711; July 18; Gaz. vol. 168; p. 784.
A. E. Staley M'f'g Co., Decatur, Ill., and Baltimore, Md. Laundry starch. No. 82,269; June 13; Gaz. vol. 167; p. 511.
A. E. Staley M'f'g. Co., near Decatur, Ill., and Baltimore, Md. Laundry starch. No. 83,698; Oct. 3; Gaz. vol. 171; p. 211.
A. F. Meisselbach & Bro., Newark, N. J. Razor-blade sharpeners and parts thereof. No. 81,539; Apr. 18; Gaz. vol. 165; p. 726.
A. G. Spalding & Bros., Jersey City, N. J., and New York, N. Y. Golf-balls. No. 84,692; Dec. 26; Gaz. vol. 173; p. 1077.
A. J. Reach Company. (See Reach, George A., assignor.)
A. J. Reach Company, Philadelphia, Pa. Base-ball gloves and mitts. Nos. 82,018–19; May 23; Gaz. vol. 166; p. 983.
A. J. Reach Company, Philadelphia, Pa. Certain athletic and sporting goods. No. 84,523; Dec. 19; Gaz. vol. 173; p. 859.
A. J. Lindemann & Hoverson Co., Milwaukee, Wis. Certain electrical goods. No. 84,241; Nov. 21; Gaz. vol. 172; p. 818.
A. R. Justice Company, Philadelphia, Pa. Polishing and cleansing material for metal and cut glass. No. 82,799; July 25; Gaz. vol. 168; p. 1028.
A. R. Mosler & Co., New York, N. Y. Spark-plugs. No. 81,225; Mar. 14; Gaz. vol. 164; p. 504.
A. W. Colter Canning Company, The, Mount Washington and Amelia, Ohio. Canned tomatoes and pumpkin and tomato catsup. No. 81,677, May 2; Gaz. vol. 166; p. 245.
Abington, Eugene H., Oklahoma, Okla. Remedies for certain named diseases. No. 82,946; Aug. 8; Gaz. vol. 169; p. 445.
Abramson, Charles, Baltimore, Md. Chewing-gum. No. 81,315; Mar. 28; Gaz. vol. 164; p. 971.
Absorene Mfg. Co., The, St. Louis, Mo. Wall-paper cleaner. No. 83,707; Oct. 10; Gaz. vol. 171; p. 477.
Acetylene Apparatus Manufacturing Co., Chicago, Ill. Acetylene-burner tips. No. 82,740; July 18; Gaz. vol. 168; p. 785.
Acker, Merrall & Condit Company, New York, N. Y. Rubber-cushioned brushes. No. 81,941; May 23; Gaz. vol. 166; p. 981.
Acker, Merrall & Condit Company, New York, N. Y. Blended tea. No. 82,282; June 20; Gaz. vol. 167; p. 757.
Ackley, Griffin S., New York, N. Y. Railway-car brakes. No. 80,694; Jan. 24; Gaz. vol. 162; p. 995.
Acme Brewing Co., San Francisco, Cal. Beer. No. 83,200; Aug. 29; Gaz. vol. 169; p. 1179.
Acme Freezer Company, Philadelphia, Pa. Ice-cream freezers. No. 83,120; Aug. 22; Gaz. vol. 169; p. 939.
Acme Milling Company, The, Aurora, Ill. Wheat-flour. No. 84,067; Nov. 7; Gaz. vol. 172; p. 255.
Acme Tag & Manufacturing Company, Minneapolis, Minn. Shipping-tags. No. 84,156; Nov. 14; Gaz. vol. 172; p. 545.
Actien-Gesellschaft für Anilin-Fabrikation, Berlin, Germany. Hair-dyeing preparations. No. 81,841; May 16; Gaz. vol. 166; p. 747.
Actien-Gesellschaft für Anilin Fabrikation, Berlin, Germany. Remedy for ophthalmic disorders, &c. No. 82,283; June 20; Gaz. vol. 167; p. 757.
Adams Company, Charles H., New Orleans, La. Spices and flavoring extracts. No. 80,966; Feb. 21; Gaz. vol. 163; p. 723.
Adelphi Polish Company, Ltd., The, London, England. Leather-polish. No. 84,444; Dec. 19; Gaz. vol. 173; p. 857.
Adler & Co., G., St. Paul, Minn. Liniments. No. 82,741; July 25; Gaz. vol. 168; p. 1027.
Adolph Frankau & Co. Ltd., London, England. Tobacco, cigarettes, and cigars. No. 83,402; Sept. 12; Gaz. vol. 170; p. 477.
Advanced Chemical Company, Milwaukee, Wis. Liniments, ointments, disinfectants, and remedies for animals. No. 83,881; Oct. 24; Gaz. vol. 171; p. 979.
Aeolian Company, Meriden, Conn.; Garwood, N. J., and New York, N. Y. Player-pianos, piano-players, and music-sheets. No. 81,045; Feb. 28; Gaz. vol. 163; p. 973.
"Aeolian Company," The, Meriden, Conn.; Garwood, N. J., and New York, N. Y. Certain musical instruments. No. 82,549; July 11; Gaz. vol. 168; p. 519.
Aeolian Company, Meriden, Conn.; Garwood, N. J., and New York, N. Y. Pianos, piano-players, player-pianos, and perforated music-sheets. Nos. 83,801–2; Oct. 17; Gaz. vol. 171; p. 739.
Ahrens, Gustav E., New York, N. Y. Whisky. No. 80,748; Jan. 31; Gaz. vol. 162; p. 1179.
Akin-Erskine Milling Company, Evansville, Ind. Wheat-flour. No. 81,377; Apr. 4; Gaz. vol. 165; p. 237.
Akin-Erskine Milling Company, Evansville, Ind. Wheat-flour. No. 81,769; May 9; Gaz. vol. 166; p. 507.
Akin-Erskine Milling Company, Evansville, Ind. Wheat-flour. No. 82,284; June 20; Gaz. vol. 167; p. 757.
Akin-Erskine Milling Company, Evansville, Ind. Wheat-flour. No. 82,394; June 27; Gaz. vol. 167; p. 977.
Akin-Erskine Milling Company, Evansville, Ind. Wheat-flour. No. 82,550; July 11; Gaz. vol. 168; p. 519.
Akin-Erskine Milling Company, Evansville, Ind. Self-rising flour. No. 82,852; Aug. 1; Gaz. vol. 169; p. 199.
Akro Agate Company, The, Akron, Ohio. Marbles. No. 83,121; Aug. 22; Gaz. vol. 169; p. 939.
Akron Soap Company, The, Akron and Youngstown, Ohio. Fertilizers. No. 83,708; Oct. 10; Gaz. vol. 171; p. 477.
Aktiebolaget B. A. Hjorth & Co., Stockholm, Sweden. Machines, tools, and parts thereof. No. 80,567; Jan. 10; Gaz. vol. 162; p. 533.
Aktiebolaget B. A. Hjorth & Co., Stockholm, Sweden. Certain hardware and plumbing supplies. No. 82,285; June 20; Gaz. vol. 167; p. 757.
Aktiebolaget Pump-Separator, Stockholm, Sweden. Certain specified machinery. No. 84,204; Nov. 21; Gaz. vol. 172; p. 817.
Aktiebolaget Pyro, Stockholm, Sweden. Stoves, lamps, and lanterns and burners for the same. No. 83,382; Sept. 12; Gaz. vol. 170; p. 477.
Aktien-Gesellschaft für Geigenindustrie, Markneukirchen, Germany. Violins, violas, and violoncellos. No. 83,535; Sept. 26; Gaz. vol. 170; p. 923.
Aktiengesellschaft für Seil-Industrie vormals Ferdinand Wolff, Mannheim-Neckarau, Germany. Rope belts. No. 81,770; May 9; Gaz. vol. 166; p. 507.
Alabama-Georgia Syrup Co., Montgomery, Ala. Cane-syrup. No. 82,129; June 6; Gaz. vol. 167; p. 237.
Alaska Chemical Company, New York, N. Y. Furs and skins. No. 84,300; Nov. 28; Gaz. vol. 172; p. 1085.
Albany Lubricating Co., New York, N. Y. Oil lubricant. No. 81,191; Mar. 14; Gaz. vol. 164; p. 503.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. No. 81,423; Apr. 4; Gaz. vol. 165; p. 238.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. No. 81,424; Apr. 11; Gaz. vol. 165; p. 469.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. Nos. 81,494–5; Apr. 18; Gaz. vol. 165; p. 725.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. No. 82,193; June 13; Gaz. vol. 167; p. 509.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. No. 83,201; Aug. 29; Gaz. vol. 169; p. 1179.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet-paper. No. 83,536; Sept. 26; Gaz. vol. 170; p. 923.
Albert Dickinson Company, Chicago, Ill. Beans and peas. No. 84,607; Dec. 26; Gaz. vol. 173; p. 1074.

Alphabetical list of registrants of trade-marks—Continued.

Albert Dickinson Company, Chicago, Ill. Feeds for stock and poultry. No. 84,609; Dec. 26; Gaz. vol. 173; p. 1074.
Alexander Bros. Co., Savannah, Ga. Overalls. No. 83,537; Sept. 26; Gaz. vol. 170; p. 923.
Alexander, George W., Baltimore, Md. Penholders. No. 80,506; Jan. 3; Gaz. vol. 162; p. 265.
Alexander & Perlmann, New York, N. Y. Embroidery-flosses. No. 81,046; Feb. 28; Gaz. vol. 163; p. 973.
Alexander & Perlmann, New York, N. Y. Linens and fabrics for art needlework. No. 81,842; May 16; Gaz. vol. 166; p. 747.
Alexis Witte Cutlery Company, New York, N. Y. Razors. Nos. 83,533–4; Sept. 19; Gaz. vol. 170; p. 701.
Alfred Andresen & Company, Minneapolis, Minn. Sickles, scythes, hoes, &c. No. 82,289; June 20; Gaz. vol. 167; p. 757.
Alfred Nelson Company, New York, N. Y. Sporting clothing and house coats, vests, trousers, knickerbockers, &c. No. 83,936; Oct. 24; Gaz. vol. 171; p. 980.
Alfred Nelson Company, New York, N. Y. Sporting-coats. No. 84,511; Dec. 19; Gaz. vol. 173; p. 859.
Allen, Albert C., Medford, Oreg. Fresh apples and pears. No. 81,316; Mar. 28; Gaz. vol. 164; p. 971.
Allen Brothers Company, Omaha, Nebr. Coffee. No. 83,627; Oct. 3; Gaz. vol. 171; p. 209.
Allen Brothers Company, Omaha, Nebr. Canned salmon. No. 84,375; Dec. 12; Gaz. vol. 173; p. 579.
Allen Crucible Co., Oakland, Cal. Graphite paints. No. 81,942; May 23; Gaz. vol. 166; p. 981.
Allen Crucible Co., Oakland, Cal. Lubricating oils and greases. No. 82,947; Aug. 8; Gaz. vol. 169; p. 445.
Allen R. Cressman's Sons, Philadelphia, Pa. Cigars. No. 82,425; June 27; Gaz. vol. 167; p. 978.
Allen & Van Dyke, Brooklyn, N. Y. Paints, colors, varnishes, and stains. No. 82,551; July 11; Gaz. vol. 168; p. 519.
Allied Publishing Company, New York, N. Y. Weekly periodical. No. 81,943; May 23; Gaz. vol. 166; p. 981.
Allis-Chalmers Company, Milwaukee, Wis. Magazine. No. 83,122; Aug. 22; Gaz. vol. 169; p. 939.
Alloway, Frank L., Chicago, Ill. Compound for removing scorches, burns, and color-stains from wool and cotton. No. 82,742; July 25; Gaz. vol. 168; p. 1027.
Alma Manufacturing Company of Baltimore City, Baltimore, Md. Buckles for clothing. No. 82,130; June 6; Gaz. vol. 167; p. 237.
Alma Manufacturing Company of Baltimore City, Baltimore, Md. Steel and brass buckles for personal wear. No. 82,743; July 25; Gaz. vol. 168; p. 1027.
Alonzo K. Lynch Advance Oil Works, Inc., Brooklyn, N. Y. Lubricating oils and greases. No. 81,468; Apr. 11; Gaz. vol. 165; p. 470.
Aluminum Goods Mfg. Co., Newark, N. J. Base-metal trays. No. 81,659; May 2; Gaz. vol. 166; p. 245.
Aluminum Goods Mfg. Co., Newark, N. J. Safety-razors. No. 81,660; May 2; Gaz. vol. 166; p. 245.
Alva Citrus Growers' Association, Alva, Fla. Oranges, lemons, tangerines, grape-fruit, and limes. No. 82,286; June 20; Gaz. vol. 167; p. 757.
Alva Citrus Growers' Association, Alva, Fla. Certain fruits. No. 84,563; Dec. 26; Gaz. vol. 173; p. 1073.
Ambassador Company, The, Corning, N. Y. Monthly magazine. No. 84,446; Dec. 19; Gaz. vol. 173; p. 857.
Ambrosia Chocolate Company, Milwaukee, Wis. Chocolate confection. No. 82,744; July 25; Gaz. vol. 168; p. 1027.
American Arch Company, New York, N. Y. Fire-bricks. No. 84,357; Dec. 5; Gaz. vol. 173; p. 283.
American Asphaltum & Rubber Co., The, Chicago, Ill. Asphalt paints. No. 83,123; Aug. 22; Gaz. vol. 169; p. 939.
American Automobile Manufacturing Company, Louisville, Ky. Gasolene-engines. No. 83,467; Sept. 19; Gaz. vol. 170; p. 699.
American Bar Lock Company, Philadelphia, Pa. Illuminating-prisms and glass tiles for building construction. No. 82,948; Aug. 8; Gaz. vol. 169; p. 445.
American Barbers Chemical Co., The, Phoenix, Ariz., and Beatrice, Nebr. Remedy for inflammatory conditions. No. 82,552; July 11; Gaz. vol. 168; p. 519.
American Belting & Tanning Co., Boston, Mass. Leather belting. Nos. 82,395–6; June 27; Gaz. vol. 167; p. 977.
American Burtonizing Company, New York, N. Y. Brewing preparations. No. 83,976; Oct. 31; Gaz. vol. 171; p. 1253.
American Clothing Manufacturing Company, Baltimore, Md. Coats, vests, and pantaloons. No. 81,567; Apr. 25; Gaz. vol. 165; p. 967.
American Coffee Company of New Orleans, New Orleans, La. Tea and compound of coffee and chicory. No. 81,047; Feb. 28; Gaz. vol. 163; p. 973.
American Designing and Reproducing Co., Pierre, S. D., and New York, N. Y. Certain textile fabrics. No. 83,124; Aug. 22; Gaz. vol. 169; p. 939.
American Drug and Press Association, Phoenix, Ariz., and Decorah, Iowa. Certain medicinal remedies, tablets, powders, &c. No. 81,771; May 8; Gaz. vol. 166; p. 507.
American Druggists Syndicate, New York and Long Island City, N. Y. Toilet cream. No. 81,661; May 2; Gaz. vol. 166; p. 245.
American Ever Ready Company, New York, N. Y. Electric batteries. No. 82,669; July 18; Gaz. vol. 168; p. 783.
American Felt Company, New York, N. Y. Steel wire. No. 80,750; Jan. 31; Gaz. vol. 162; p. 1179.
American Home Remedy Company, Detroit, Mich. Medicinal pill. No. 84,447; Dec. 19; Gaz. vol. 173; p. 857.
American Joxyl Company, New York, N. Y. Panels and strips for interior decorative surface covering. No. 82,287; June 20; Gaz. vol. 167; p. 757.
American Kitchen Products Company, New York, N. Y. Beef extract. No. 81,192; Mar. 14; Gaz. vol. 164; p. 503.
American Kitchen Products Company, New York, N. Y. Beef-broth preparations. No. 81,568; Apr. 25; Gaz. vol. 165; p. 967.
American Kitchen Products Company, New York, N. Y. Concentrated bouillon. No. 82,288; June 20; Gaz. vol. 167; p. 757.
American Lacing Hook Co., Waltham, Mass. Lacing-hooks for clothing. No. 80,967; Feb. 21; Gaz. vol. 163; p. 723.
American Manufacturing Company, The, Charleston, W. Va., and New York, N. Y. Jute bagging for baling cotton. No. 82,745; July 25; Gaz. vol. 168; p. 1027.
American Manufacturing Company, Charleston, W. Va., and New York, N. Y. Bagging for baling cotton. No. 83,204; Aug. 29; Gaz. vol. 169; p. 1179.
American Naval Stores Company, Savannah, Ga. Rosin-oil. No. 84,069; Nov. 7; Gaz. vol. 172; p. 255.
American News Company, The, New York, N. Y. Magazine-catalogues. No. 82,854; Aug. 1; Gaz. vol. 169; p. 199.
American Optical Company, Southbridge, Mass. Eyeglass and spectacle cases. Nos. 82,855–6; Aug. 1; Gaz. vol. 169; p. 199.
American Optical Company, Southbridge, Mass. Magnifying glasses and lenses. No. 83,125; Aug. 22; Gaz. vol. 169; p. 939.
American Paper Goods Company, The, Kensington, Conn. Paper, envelops, photograph-inclosures, &c. No. 80,968; Feb. 21; Gaz. vol. 163; p. 723.
American Paper Goods Company, The, Montclair, N. J., and Kensington, Conn. Paper bags and drinking-cups. No. 81,662; May 2; Gaz. vol. 166; p. 245.
American Paper Goods Company, The, Montclair, N. J., and Kensington, Conn. Envelops and linen paper. No. 84,157; Nov. 14; Gaz. vol. 172; p. 545.
American Paper Goods Company, The, Montclair, N. J., and Kensington, Conn. Printing-presses. No. 84,301; Nov. 28; Gaz. vol. 172; p. 1085.
American Pin Co., Waterville, Conn. Hooks and eyes and safety-pins. No. 81,317; Mar. 28; Gaz. vol. 164; p. 971.
American Pin Co., Waterbury, Conn. Safety-pins. No. 81,425; Apr. 11; Gaz. vol. 165; p. 469.
American Printing Company, Fall River, Mass. Cotton piece goods. No. 82,194; June 13; Gaz. vol. 164; p. 509.
American Radiator Company, Chicago, Ill. Vacuum cleaning apparatus. No. 83,205; Aug. 29; Gaz. vol. 169; p. 1179.
American Refractories Company, Chicago, Ill. Magnesite. No. 84,158; Nov. 14; Gaz. vol. 172; p. 545.
American Seeding Machine Company, The, Springfield, Ohio, and Richmond, Ind. Grain-seeding machines. No. 83,709; Oct. 10; Gaz. vol. 171; p. 477.
American Steel & Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburg, Pa.; New York, N. Y.; Worcester, Mass., and Hoboken, N. J. Woven-wire fence. No. 81,843; May 16; Gaz. vol. 166; p. 747.
American Steel & Wire Company of New Jersey, Hoboken, N. J. Barb-wire. No. 84,302; Nov. 28; Gaz. vol. 172; p. 1085.
American Tar Company, Boston and Malden, Mass. Tarry coating for roads. No. 82,553; July 11; Gaz. vol. 168; p. 519.
American Tar Company, Boston, Mass. Tarry coating for roads. No. 82,857; Aug. 1; Gaz. vol. 169; p. 199.
American Tobacco Co., New York, N. Y. Little cigars and tobacco. No. 84,205; Nov. 21; Gaz. vol. 172; p. 817.
American Vanadium Company, Pittsburg, Pa. Metal alloys. Nos. 83,308–9; Sept. 5; Gaz. vol. 170; p. 239.
American Well & Prospecting Co., The, Corsicana, Tex. Steam-pumps. No. 83,710; Oct. 10; Gaz. vol. 171; p. 477.
American Wholesale Grocery Co., Inc., Worcester, Mass. Wheat-flour. No. 83,804; Oct. 17; Gaz. vol. 171; p. 739.
Ames Shovel and Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, and scoops. Nos. 83,310–12; Sept. 5; Gaz. vol. 170; p. 239.
Ames Shovel and Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, and scoops. No. 84,070; Nov. 7; Gaz. vol. 172; p. 255.
Ames Shovel and Tool Company, Jersey City, N. J., and Boston, Mass. Shovels, spades, scoops, and drainage-tools. Nos. 84,564–76; Dec. 26; Gaz. vol. 173; p. 1073.
Ams, Charles M., Mount Vernon, N. Y. Roller-skates. No. 83,711; Oct. 10; Gaz. vol. 171; p. 477.
Anderson-Shaffer Company, The, Hamilton, Ohio. Coal. No. 80,885; Feb. 14; Gaz. vol. 163; p. 477.

Alphabetical list of registrants of trade-marks—Continued.

Andrew Jergens Co., The, Cincinnati, Ohio. Perfumes and toilet waters. No. 80,535; Jan. 3; Gaz. vol. 162; p. 265.
Andrews, C. W., Duluth, Minn. Bituminous binder. No. 83,313; Sept. 5; Gaz. vol. 170; p. 239.
Andrews, Ernest L., Bristol, Tenn. Remedy for blood diseases. No. 82,554; July 11; Gaz. vol. 168; p. 519.
Andrews & Lewerth, Inc., New York, N. Y. Paper. No. 82,858; Aug. 1; Gaz. vol. 169; p. 199.
Ansted & Burk Co., The, Springfield, Ohio. Wheat-flour. No. 83,628; Oct. 3; Gaz. vol. 171; p. 209.
Anti-Pyorrhea Chemical Company, St. Louis, Mo. Tooth paste and wash. No. 83,805; Oct. 17; Gaz. vol. 171; p. 739.
Anti-Tarnish Company, Altoona, Pa. Solutions for protecting metals. No. 83,882; Oct. 24; Gaz. vol. 171; p. 979.
Apex Concrete Roofing Tile Company. (See Laban, William, assignor.)
Apfel, Philip F., Seattle, Wash. Cement plastic flooring material and blocks or tiles. No. 80,695; Jan. 24; Gaz. vol. 162; p. 995.
Aplin & Barrett & the Western Counties Creameries Limited, Yeovil, England. Certain foods. No. 81,844; May 16; Gaz. vol. 166; p. 747.
Appleby, George, Philadelphia, Pa. Lubricating compounds. No. 83,883; Oct. 24; Gaz. vol. 171; p. 979.
Aquabar Co., The, Camden, N. J. Waterproofing compounds for use with plastic masonry materials. No. 82,397; June 27; Gaz. vol. 167; p. 977.
Arabol M'f'g. Co., The, New York, N. Y. Paste calcimine. No. 84,448; Dec. 19; Gaz. vol. 173; p. 857.
Arabol Mfg. Co., New York, N. Y. Laundry starch. No. 84,578; Dec. 26; Gaz. vol. 173; p. 1073.
Arch City Bottling Co., Columbus, Ohio. Non-alcoholic beverage. No. 83,206; Aug. 29; Gaz. vol. 169; p. 1179.
Arch Pharmacal Company, Oakland, Cal. Hair-tonic and a remedy for certain diseases. No. 84,071; Nov. 7; Gaz. vol. 172; p. 255.
Ardin, Lucien, New York, N. Y. Whisky. No. 80,751; Jan. 31; Gaz. vol. 162; p. 1179.
Argento Manufacturing Syndicate Limited, London, England. Preparation for cleaning polished metal, &c. No. 84,449; Dec. 19; Gaz. vol. 173; p. 857.
Arguimbau & Ramée, New York, N. Y. Olives. No. 80,969; Feb. 21; Gaz. vol. 163; p. 723.
Argyle Company, The, New York, N. Y. Pajamas, night shirts and robes, union suits, and underwear. No. 84,159; Nov. 14; Gaz. vol 172; p. 545.
Arkansas City Milling Company, The, Arkansas City, Kans. Wheat-flour. No. 83,314; Sept. 5; Gaz. vol. 170; p. 239.
Arkansas Lime Company, East Sylamore, Ark. Lime. No. 80,507; Jan. 3; Gaz. vol. 162; p. 265.
Arlington Chemical Co., Yonkers, N. Y. Extract of predigested beef, milk, and wheat. No. 82,195; June 13; Gaz. vol. 167; p. 509.
Arlington Chemical Co., Yonkers, N. Y. Nutritive and remedial compound for asthenia, neurasthenia, &c. No. 82,746; July 25; Gaz. vol. 168; p. 1027.
Arlington Company, The, New York, N. Y. Combs. No. 83,538; Sept. 26; Gaz. vol. 170; p. 923.
Armor, Alpheus, Pittsburgh, Pa. Bleach for the skin. No. 84,450; Dec. 19; Gaz. vol. 173; p. 857.
Armour and Company, Chicago, Ill. Lard substitute. No 83,126; Aug. 22; Gaz. vol. 169; p. 939.
Armstrong Cork Company, Pittsburg, Pa. Composition paving-brick. No. 81,944; May 23; Gaz. vol. 166; p. 981.
Armstrong Cork Company, Pittsburgh, Pa. Heat-insulating materials. No. 83,806; Oct. 17; Gaz. vol. 171; p. 739.
Armstrong Cork Company, Pittsburgh, Pa. Corks. Nos. 84,358–9; Dec. 5; Gaz. vol. 173; p. 283.
Arnoux, Maurice, Paris, France. Moselle wines. No. 83,127; Aug. 22; Gaz. vol. 169; p. 939.
Arrow Electric Company, The, Hartford, Conn. Electrical apparatus and supplies. No. 82,555; July 11; Gaz. vol. 168; p. 519.
Arthur Westbrook Company, The, Cleveland, Ohio. Weekly publication. No. 83,957; Oct. 24; Gaz. vol. 171; p. 981.
Aseptic Products Company, New York, N. Y. Corn and bunion and belladonna plasters and sulfur candles. No. 84,206; Nov. 21; Gaz. vol. 172; p. 817.
Aseptic Products Company, New York and Long Island City, N. Y. Absorbent cotton and dental floss. No. 84,303; Nov. 28; Gaz. vol. 172; p. 1085.
Ashland Brewing Co., Ashland, Wis. Malt tonic. No. 80,886; Feb. 14; Gaz. vol. 163; p. 477.
Asmus Brothers, Detroit, Mich. Blended coffee and tea. No. 80,633; Jan. 17; Gaz. vol. 162; p. 779.
Associated Pharmacists Co., San Francisco, Cal. Certain medicines and pharmaceutical preparations for man or beast. No. 83,539; Sept. 26; Gaz. vol. 170; p. 923.
Astier, Placide, Paris, France. Laxative preparation. No. 81,772; May 9; Gaz. vol. 166; p. 507.
Astyptodyne Chemical Co., New York, N. Y. Healing-oil. No. 84,304; Nov. 28; Gaz. vol. 172; p. 1085.
Atkinson, Mentzer & Grover, Chicago, Ill. Pottery. No. 82,290; June 20; Gaz. vol. 167; p. 757.
Atkinson, Robert E., Davidson, N. C., and Ontario, Va. **Nerve and bone liniment. No. 81,048; Feb. 28; Gaz.** vol. 163; p. 973.
Atlas Ball Company, Merchantville, N. J. Bearing-balls. No. 82,196; June 13; Gaz. vol. 167; p. 509.
Atlas Ball Company, Merchantville, N. J. Bearing-balls. No. 82,952; Aug. 8; Gaz. vol. 169; p. 445.
Atlas Buckram Company, Taunton, Mass. Buckram cloth. No. 82,491; July 4; Gaz. vol. 168; p. 245.
Atlas Chain Company, Brooklyn, N. Y. Antiskid-chains. No. 82,953; Aug. 8; Gaz. vol. 169; p. 445.
Atlas Chain Company, New York, N. Y. Antiskid-chains. No. 83,209; Aug. 29; Gaz. vol. 169; p. 1179.
Atsatt Bros., Mattapoisett, Mass. Peanut-roasters. No. 82,490; July 4; Gaz. vol. 168; p. 245.
Attix Electrical Engineering Company, The, Brooklyn, N. Y. Insulated electric-conductor wire. No. 81,241; Mar. 21; Gaz. vol. 164; p. 735.
Atuyer, Bianchini, Férier & Co., Lyon, France. Silk piece goods. No. 82,954; Aug. 8; Gaz. vol. 169; p. 445.
Auen, Karen C., Spokane, Wash. Remedy for certain diseases. No. 80,752; Jan. 31; Gaz. vol. 162; p. 1179.
Ault & Wiborg Co., Cincinnati, Ohio. Printing-ink. No. 81,378; Apr. 4; Gaz. vol. 165; p. 237.
Ault & Wiborg Co., The, Cincinnati, Ohio. Varnish-paint. No. 81,773; May 9; Gaz. vol. 166; p. 507.
Ault & Wiborg Co., The, Cincinnati, Ohio. Printing-ink. Nos. 82,860–1; Aug. 1; Gaz. vol. 169; p. 199.
Aultman & Taylor Machinery Company, Mansfield, Ohio. Grain-separating machines. No. 83,040; Aug. 15; Gaz. vol. 169; p. 697.
Aultman & Taylor Machinery Company, The, Mansfield, Ohio. Clover-hulling machines. No. 84,579; Dec. 26; Gaz. vol. 173; p. 1073.
Austin Edwards, Limited, Warwick, England. Photographic films. No. 81,061; Feb. 28; Gaz. vol. 163; p. 973.
Austin, Nichols & Co., New York, N. Y. Certain canned goods and foods. No. 81,194; Mar. 14; Gaz. vol. 164; p. 503.
Austin, Nichols & Co., New York, N. Y. Canned and evaporated goods, catsup, flour, &c. No. 81,318; Mar. 28; Gaz. vol. 164; p. 971.
Austin, Nichols & Co., New York, N. Y. Certain food. Nos. 81,569–70; Apr. 25; Gaz. vol. 165; p. 967.
Auto-Maid Co., The, Columbus, Ohio. Massaging devices. No. 83,384; Sept. 12; Gaz. vol. 170; p. 477.
Auto-Merchandising Company of Pittsburgh, Pennsylvania, Pittsburgh, Pa. Candy, candy lozenges and pellets. No. 83,884; Oct. 24; Gaz. vol. 171; p. 979.
Autoforce Ventilating System, Pierre, S. D., and Boston, Mass. Ventilating apparatus. No. 83,383; Sept. 12; Gaz. vol. 170; p. 477.
Automatic Press Feeder Company, Chicago, Ill. Printing-presses. No. 82,556; July 11; Gaz. vol. 168; p. 519.
Automatic Recording Safe Company, The, Chicago, Ill. Savings-banks. No. 84,580; Dec. 26; Gaz. vol. 173; p. 1073.
Automobile Blue Book Publishing Co., The, New York, N. Y. Periodical issued annually. No. 83,977; Oct. 31; Gaz. vol. 171; p. 1253.
Autopiano Company, The, New York, N. Y. Music-rolls for self-playing and automatic musical instruments. No. 81,945; May 23; Gaz. vol. 166; p. 981.
Autopiano Company, New York, N. Y. Piano-players. No. 83,540; Sept. 26; Gaz. vol. 170; p. 923.
Avon Mfg. Co., Lewiston, Me. Bedspreads. No. 81,774; May 9; Gaz. vol. 166; p. 507.
Aylsworth, John H., Jr., Providence, R. I. Boots, shoes, and slippers. No. 81,049; Feb. 28; Gaz. vol. 163; p. 973.
Azusa Foot-Hill Citrus Association, Azusa, Cal. Oranges, lemons, tangerines, grape-fruit, and limes. No. 82,670; July 18; Gaz. vol. 168; p. 783.
B. Altman & Co., New York, N. Y. Underwear and hosiery. No. 83,202; Aug. 29; Gaz. vol. 169; p. 1179.
B. Frankel Co., The, New York, N. Y. Certain hair goods. No. 84,000; Oct. 31; Gaz. vol. 171; p. 1253.
B. Pernetti Co., The, New York, N. Y. Tonic liqueur. No. 84,128; Nov. 7; Gaz. vol. 172; p. 256.
B. A. Corbin & Son Co., Webster, Mass. Leather boots and shoes. No. 83,326; Sept. 5; Gaz. vol. 170; p. 239.
B. F. Goodrich Company, Akron, Ohio. Belting and hose. No. 83,575; Sept. 26; Gaz. vol. 170; p. 924.
B. F. Goodrich Company, Akron, Ohio. Belting and tires. No. 83,731; Oct. 10; Gaz. vol. 171; p. 477.
B. F. Nelson Manufacturing Company, Minneapolis, Minn. Composition roofing. No. 82,815; June 20; Gaz. vol. 168; p. 1029.
B. L. Co., Norwich, Conn. Ball-bearings. No. 83,885; Oct. 24; Gaz. vol. 171; p. 979.
B. T. Babbitt, Jersey City, N. J., and New York, N. Y. Lye or potash. No. 81,946; May 23; Gaz. vol. 166; p. 981.
Bache, Leigh S., Boundbrook, N. J. Poultry. No. 82,041; May 30; Gaz. vol. 166; p. 1277.
Bache, Leigh S., Boundbrook, N. J. Metal alloys. No. 82,197; June 13; Gaz. vol. 167; p. 509.
Bache, Leigh S., Boundbrook, N. J. Eggs. No. 84,581; Dec. 26; Gaz. vol. 173; p. 1073.

Alphabetical list of registrants of trade-marks—Continued.

Badische Anilin- & Soda-Fabrik, Ludwigshafen-on-the-Rhine, Germany. Certain chemicals. No. 81,426; Apr. 11; Gaz. vol. 165; p. 469.
Babische Anilin- & Soda-Fabrik, Ludwigshafen-on-the Rhine, Germany. Certain chemicals. Nos. 83,541–2; Sept. 26; Gaz. vol. 170; p. 923.
Bagger, Martin, Plainfield, N. J. Cordials. No. 84,160; Nov. 14; Gaz. vol. 172; p. 545.
Bailey, C. Williams, deceased; R. Whitford, administrator, Georgetown, S. C. Remedy for certain named diseases. No. 81,118; Mar. 7; Gaz. vol. 164; p. 245.
Baker, Ellis, Baltimore, Md. Coats, vests, trousers, and overcoats. No. 83,315; Sept. 5; Gaz. vol. 170; p. 239.
Balduff Pure Candy Co., Omaha, Nebr. Chocolates and bonbons. No. 80,634; Jan. 17; Gaz. vol. 162; p. 779.
Baldwin, Dwight M., Jr., Minneapolis, Graceville, and Moorhead, Minn. Certain foods. No. 80,970; Feb. 21; Gaz. vol. 163; p. 723.
Baldwin Refrigerator Co., The, Burlington, Vt. Refrigerators, ice boxes and chests. Nos. 81,571–8; Apr. 25; Gaz. vol. 165; p. 967.
Baldwin Refrigerator Co., The, Burlington, Vt. Refrigerators, ice boxes and chests. Nos. 81,663–5; May 2; Gaz. vol. 166; p. 245.
Baldwin Refrigerator Co., The, Burlington, Vt. Refrigertors, ice boxes and chests. No. 81,775; May 9; Gaz. vol. 166; p. 507.
Baltimore Bargain House, Baltimore, Md. Cotton, silk, wool, &c., piece goods. No. 81,050; Feb. 28; Gaz. vol. 163; p. 973.
Baltimore Bargain House, Baltimore, Md. Men's hats. No. 81,319; Mar. 28; Gaz. vol. 164; p. 971.
Banker's Publishing Co., The, New York, N. Y. Monthly magazines. No. 80,568; Jan. 10; Gaz. vol. 162; p. 533.
Banner Milling Company, Buffalo, N. Y. Wheat-flour. No. 84,305; Nov. 28; Gaz. vol. 172; p. 1085.
Banta and Bender Co., The, Ligonier, Ind. Refrigerators, ice chests and boxes. No. 81,776; May 9; Gaz. vol. 166; p. 507.
Barbour Bros. Co., Paterson, N. J. Linen thread. No. 80,824; Feb. 7; Gaz. vol. 163; p. 227.
Barby, Maria von, Weimar, Germany. Remedy for gall-stones. No. 82,747; July 25; Gaz. vol. 168; p. 1027.
Barclay & Barclay, New York, N. Y. Facial cream. No. 81,242; Mar. 21; Gaz. vol. 164; p. 735.
Barclay & Barclay, New York, N. Y. Soap. Nos. 83,629–30; Oct. 3; Gaz. vol. 171; p. 209.
Barkdull, John W., New Orleans, La. Natural spring-water. No. 81,379; Apr. 4; Gaz. vol. 165; p. 237.
Barkley, Washington H., Chicago, Ill. Preparation for removing dirt and the like. No. 81,195; Mar. 14; Gaz. vol. 164; p. 503.
Barmon Brothers, Buffalo, N. Y. Dresses. No. 82,862; Aug. 1; Gaz. vol. 169; p. 199.
Barnes Medicine Co., Harris, South Bend, Ind. Remedy for diseases of the stomach. No. 84,451; Dec. 19; Gaz. vol. 173; p. 857.
Barnett Bros., New York, N. Y. Japanese polishing-oil. No. 84,452; Dec. 19; Gaz. vol. 173; p. 857.
Barnett, Shelton J., Memphis, Tenn. Remedy for certain diseases. No. 83,128; Aug. 22; Gaz. vol. 169; p. 939.
Barney Paper Company, The, Newburgh and New York, N. Y. Paper and envelops. No. 83,807; Oct. 17; Gaz. vol. 171; p. 739.
Barrell, William L., Lawrence, Mass. Driving and conveyer belting. No. 82,492; July 4; Gaz. vol. 168; p. 245.
Barrett Manufacturing Company, New York, N. Y. Insecticides. No. 82,748; July 25; Gaz. vol. 168; p. 1027.
Barrett Manufacturing Company, New York, N. Y. Roofing materials containing asbestos. No. 83,808; Oct. 17; Gaz. vol. 171; p. 739.
Barrett Manufacturing Company, New York, N. Y. Building, roofing, and sheathing papers or fabrics. No. 83,886; Oct. 24; Gaz. vol. 171; p. 979.
Barrier, Edward A., Cambridge, Mass. Chemical compound for cleaning clothing, &c. No. 81,119; Mar. 7; Gaz. vol. 164; p. 245.
Barrs, Wm. E., Cincinnati, Ohio. Whisky. No. 81,579; Apr. 25; Gaz. vol. 165; p. 967.
Bartholomay Brewery Company, Rochester, N. Y. Beer and ale. No. 80,696; Jan. 24; Gaz. vol. 162; p. 995.
Bartholomay Brewing Company, Rochester, N. Y. Ale. No. 82,557; July 11; Gaz. vol. 168; p. 519.
Bartholomew, James S., Occidental, Cal. Life-saving and swimming apparatus. No. 80,508; Jan. 3; Gaz. vol. 162; p. 265.
Barto, Frank C., St. Louis, Mo. Antiseptic powder. No. 84,582; Dec. 26; Gaz. vol. 173; p. 1073.
Bartow Citrus Growers' Association, Bartow, Fla. Oranges, lemons, grape-fruit, tangerines, &c. No. 83,809; Oct. 17; Gaz. vol. 171; p. 739.
Bartow Citrus Growers' Association, Bartow, Fla. Certain fruits. No. 83,979; Oct. 31; Gaz. vol. 171; p. 1253.
Bass Daughtry Co. Inc., Norfolk, Va. Certain canned goods. No. 81,243; Mar. 21; Gaz. vol. 164; p. 735.
Bates & Son, C. J., Chester, Conn. Crochet-hooks, knitting pins and needles. No. 82,558; July 11; Gaz. vol. 168; p. 519.
Battreall Shoe Co., St. Joseph, Mo. Leather and rubber boots and shoes. No. 83,210; Aug. 29; Gaz. vol. 169; p. 1179.
Bauer Brothers, New York, N. Y. Hair rolls. No. 81,947; May 23; Gaz. vol. 166; p. 981.
Bauer & Cie., Berlin, Germany. Dietetic preparations. No. 80,971; Feb. 21; Gaz. vol. 163; p. 723.
Baughman & Williams, Mansfield, Ohio. Compound of oils for preventing corrosion of iron and steel. No. 80,753; Jan. 31; Gaz. vol. 162; p. 1179.
Baum, David C., New York, N. Y. Hose supporters and protectors. No. 83,980; Oct. 31; Gaz. vol. 171; p. 1253.
Bauman, Jere, New Castle, Pa. Powdered preparation for making food jelly. No. 83,887; Oct. 24; Gaz. vol. 171; p. 979.
Bauman, Jere, New Castle, Pa. Powdered preparation for making food jelly. No. 84,072; Nov. 7; Gaz. vol. 172; p. 255.
Bauman, Jere, New Castle, Pa. Bluing. No. 84,583; Dec. 26; Gaz. vol. 173; p. 1073.
Baumgaertner-Patrick Co., New York, N. Y. Certain machine. No. 84,207; Nov. 21; Gaz. vol. 172; p. 817.
Bausch & Lomb Optical Co., Rochester, N. Y. Centrifugal machines for scientific analysis. No. 82,749; July 25; Gaz. vol. 168; p. 1027.
Bausch & Lomb Optical Co., Rochester, N. Y. Laboratory-incubators. No. 82,750; July 25; Gaz. vol. 168; p. 1027.
Baverey, Francois, Oullins, France. Carbureters. No. 81,845; May 16; Gaz. vol. 166; p. 747.
Baxter Stove Co., The, Mansfield, Ohio. Heating and cooking stoves. No. 81,196; Mar. 14; Gaz. vol. 164; p. 503.
Bayerson Oil Works, Erie, Pa. Lubricating-oils. No. 83,316; Sept. 5; Gaz. vol. 170; p. 239.
Beacon Falls Rubber Shoe Company, The, Beacon Falls, Conn. Boots, shoes, and slippers. No. 83,317; Sept. 5; Gaz. vol. 170; p. 239.
Beaton & Corbin Mfg. Co., The, Southington, Conn. Floor and ceiling plates. No. 82,398; June 27; Gaz. vol. 167; p. 977.
Beaucourt, Hugues, Lyon, France. Horns, sirens, and gongs for automobiles. No. 82,291; June 20; Gaz. vol. 167; p. 757.
Beaufont Lithia Water Co., The, Richmond, Va. Ginger-ale, root-beer, sarsaparilla, and lemon-soda. No. 82,399; June 27; Gaz. vol. 167; p. 977.
Beaumont Medicine Co., Beaumont, Tex. Remedies for diseases of the liver and for diarrhea. No. 80,697; Jan. 24; Gaz. vol. 162; p. 995.
Beaver Company, The, Buffalo, N. Y. Wall-board and building-paper. No. 80,569; Jan. 10; Gaz. vol. 162; p. 533.
Beaver Pond Coal Company, Prestonburg, Ky. Coal. No. 80,972; Feb. 21; Gaz. vol. 163; p. 723.
Béchoff, *née* Netter, Marguerite M., Paris, France. Catamenial bandages and supports. No. 82,559; July 11; Gaz. vol. 168; p. 519.
Becker, Mayer & Co., Chicago, Ill. Boys' clothing. No. 83,211; Aug. 29; Gaz. vol. 169; p. 1179.
Beckley Ralston Co., The, Chicago, Ill. Metal-polish. No. 83,631; Oct. 3; Gaz. vol. 171; p. 209.
Bedford Mills, New York, N. Y. Cotton goods in the piece. No. 84,453; Dec. 19; Gaz. vol. 173; p. 857.
Beekman Paper & Card Company, New York, N. Y. Writing and printing paper. No. 80,509; Jan. 3; Gaz. vol. 162; p. 265.
Beekman Paper & Card Company, New York, N. Y. Writing-paper. No. 80,887; Feb. 14; Gaz. vol. 163; p. 477.
Belcco Company, The, Middlebury, Vt. Remedy for eczema and an effervescent salt. No. 84,584; Dec. 26; Gaz. vol. 173; p. 1073.
Belden, Harry W., North Underhill, Westford, and Cloverdale, Vt. Butter and cream. No. 80,754; Jan. 31; Gaz. vol. 162; p. 1179.
Belfast Mineral Water Co., Limited, Belfast, Ireland. Ginger-ale. No. 81,320; Mar. 28; Gaz. vol. 164; p. 971.
Belknap, Charles H., assignor to New York Diatomite Company, Brooklyn, N. Y. Heat-insulating materials. Nos. 82,671–3; July 18; Gaz. vol. 168; p. 783.
Bellas Hess & Co., New York, N. Y. Hosiery. No. 82,560; July 11; Gaz. vol. 168; p. 519.
Belle Mead Sweetsmakers, The, Trenton, N. J. Chocolates and bonbons. No. 82,199; June 13; Gaz. vol. 167; p. 509.
Belleville Alfalfa Milling Company, The, Belleville, Kans. Prepared stock fods. No. 83,468; Sept. 19; Gaz. vol. 170; p. 699.
Bemidji Chemical Co., The, Bemidji, Minn. Remedy for female diseases. No. 82,561; July 11; Gaz. vol. 168; p. 519.
Bender, Carl I., Dotzheim, near Wiesbaden, Germany. Mouse and rat traps. No. 82,562; July 11; Gaz. vol. 168; p. 519.
Bendixen Tobacco Co., Syracuse, N. Y. Chewing and smoking tobacco. No. 82,400; June 27; Gaz. vol. 167; p. 977.
Benecke, Louis A., St. Louis, Mo. Lead-pencils. No. 81,427; Apr. 11; Gaz. vol. 165; p. 469.
Benger Söhne, Wilhelm, Stuttgart, Germany. Woolen knit garments. No. 81,754; May 2; Gaz. vol. 166; p. 247.
Benito, Jose, Haywards, Cal. Liniments. No. 81,948; May 23; Gaz. vol. 166; p. 981.

Alphabetical list of registrants of trade-marks—Continued.

Benito, Jose, Haywards, Cal. Medicinal tonics. No. 81,949; May 23; Gaz. vol. 166; p. 981.
Benjamin & Johnes, Newark, N. J. Corsets, brassières, bust-supporters, and bustles. No. 84,454; Dec. 19; Gaz. vol. 173; p. 857.
Benner Manufacturing Company, Lancaster, Pa. Wooden games, baby swings, jumpers, and walkers, &c. No. 82,401; June 27; Gaz. vol. 167; p. 977.
Bennett, Hollander & Lewis, Pittsburg, Pa. Trousers. No. 81,197; Mar. 14; Gaz. vol. 164; p. 503.
Benson, Lloyd R., Hudson, N. Y. Soldering-fluxes. No. 83,469; Sept. 19; Gaz. vol. 170; p. 699.
Bentley-Franklin Co., New York, N. Y. Fabrics stamped with embroidery-patterns and textile braids. No. 81,846; May 16; Gaz. vol. 166; p. 747.
Bentley-Franklin Co., New York, N. Y. Floss, yarns, and threads. No. 84,306; Nov. 28; Gaz. vol. 172; p. 1085.
Benzol Products Co'y, Solvay, N. Y., and Frankford, Pa. Anilin oil and salts. No. 84,073; Nov. 7; Gaz. vol. 172; p. 255.
Berdan & Company, Toledo, Ohio. Certain food. No. 82,493; July 4; Gaz. vol. 168; p. 245.
Bergonzi & Co., L., New York, N. Y. Bitters. No. 82,563; July 11; Gaz. vol. 168; p. 519.
Bergonzi & Co., L., New York, N. Y. Cordial. No. 83,041; Aug. 15; Gaz. vol. 169; p. 697.
Bergonzi & Company, L., New York, N. Y. Bitters. No. 83,811; Oct. 17; Gaz. vol. 171; p. 739.
Berkeley Company, Providence, R. I. Cotton piece goods. No. 81,428; Apr. 11; Gaz. vol. 165; p. 469.
Berkeley Company, Providence, R. I. Cotton piece goods. No. 82,042; May 30; Gaz. vol. 166; p. 1277.
Berlin & Trosky, New York, N. Y. Artificial plumes and feathers. No. 83,212; Aug. 29; Gaz. vol. 169; p. 1179.
Berlin & Trosky, New York, N. Y. Artificial feathers. No. 83,712; Oct. 10; Gaz. vol. 171; p. 477.
Berliner Ceresin-Fabrik Graab & Kranich, Rixdorf, near Berlin, Germany. Lanolin. No. 83,888; Oct. 24; Gaz. vol. 171; p. 979.
Berry & Co., C., Boston, Mass. Whisky. No. 81,666; May 2; Gaz. vol. 166; p. 245.
Bessler, Frank E., Akron, Ohio. Movable stairway. No. 80,825; Feb. 7; Gaz. vol. 163; p. 227.
Bewley, E. E., *et al.*, executors. (See Bewley, M. P.)
Bewley, Hallie C., *et al.*, executors. (See Bewley, M. P.)
Bewley, M. P., deceased; H. C. and E. E. Bewley, executors, Fort Worth, Tex. Wheat-flour. No. 80,974; Feb. 21; Gaz. vol. 163; p. 723.
Beyerle Mfg. Co., J. J., New York, N. Y. Armpit-shields. No. 84,586; Dec. 26; Gaz. vol. 173; p. 1073.
Bierbrauerei zum Thomasbräu, Gebrüder Thomass, Munich, Germany. Beer. No. 83,829; Oct. 17; Gaz. vol. 171; p. 740.
Big Diamond Milling Co., Minneapolis, Minn. Wheat-flour. No. 82,674; July 18; Gaz. vol. 168; p. 783.
Big Stone Canning Company, Bigstone City, S. D. Canned vegetables. No. 82,751; July 25; Gaz. vol. 168; p. 1027.
Big Stone Canning Company, Bigstone City, S. D. Canned vegetables and sauer-kraut. No. 83,470; Sept. 19; Gaz. vol. 170; p. 699.
Bijur, Joseph, New York, N. Y. Electric-lighting apparatus. Nos. 83,543–4; Sept. 26; Gaz. vol. 170; p. 923.
Billiard Bowling Alley Company, Pittsburg, Pa. Billiard bowling-tables. No. 83,385; Sept. 12; Gaz. vol. 170; p. 477.
Bingham Brothers Company, New York, N. Y. Printers' rollers. No. 80,755; Jan. 31; Gaz. vol. 162; p. 1179.
Binkley, M. Benjamin, Dayton, Ohio. Salves. No. 82,564; July 11; Gaz. vol. 168; p. 519.
Birck, Fred, New York, N. Y. Razors, shears, knives, cutting-blades, &c. No. 82,292; June 20; Gaz. vol. 167; p. 757.
Bird, Charles S., East Walpole, Mass. Roofing and siding papers. No. 81,580; Apr. 25; Gaz. vol. 165; p. 967.
Bird, Katherine, Phoenix, Ariz. Remedy for cancers. No. 83,981; Oct. 31; Gaz. vol. 171; p. 1253.
Birdsey-Somers Co., New York, N. Y. Corsets. No. 80,698; Jan. 24; Gaz. vol. 162; p. 995.
Birk Bros. Brewing Co., Chicago, Ill. Beer. No. 83,471; Sept. 19; Gaz. vol. 170; p. 699.
Birk Bros. Brewing Co., Chicago, Ill. Beer. No. 83,632; Oct. 3; Gaz. vol. 171; p. 209.
Birkett Mills, The, Penn Yan, N. Y. Chicken feeds. No. 82,955; Aug. 8; Gaz. vol. 169; p. 445.
Bischoff & Co., C., New York, N. Y. Preparation for dyeing and printing textile fabrics. No. 81,668; May 2; Gaz. vol. 166; p. 245.
Bischoff, Felix, Duisburg, Germany. Certain machine-tools. No. 82,402; June 27; Gaz. vol. 167; p. 977.
Bischoff, Felix, Duisburg, Germany. Steel in forged bars and sheets. No. 82,403; June 27; Gaz. vol. 167; p. 977.
Bishop & Company, Los Angeles, Cal. Crackers. No. 83,129; Aug. 22; Gaz. vol. 169; p. 939.
Bishop & Company, Los Angeles, Cal. Crackers. No. 83,889; Oct. 24; Gaz. vol. 171; p. 979.
Bishop, Marianna M., Baltimore, Md. Food for fish. No. 80,975; Feb. 21; Gaz. vol. 163; p. 723.
Bishop, Marianna M., Baltimore, Md. Food for fish. No. 81,496; Apr. 18; Gaz. vol. 165; p. 725.
Bishop, Robert, Boston, Mass. Cotton lamp-wicking. No. 81,321; Mar. 28; Gaz. vol. 164; p. 971.
Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet-sweepers. Nos. 80,976–82; Feb. 21; Gaz. vol. 163; p. 723.
Bjur Bros. Inc., New York, N. Y. Pianos and player-pianos. No. 81,120; Mar. 7; Gaz. vol. 164; p. 245.
Black-Draught Stock Medicine Co., Chattanooga, Tenn. Antiseptic powder, talcum powder, and remedy for colic. No. 83,890; Oct. 24; Gaz. vol. 171; p. 979.
Black Hawk Coffee & Spice Co., Waterloo, Iowa. Blended coffee. No. 84,307; Nov. 28; Gaz. vol. 172; p. 1085.
Black Manufacturing Company, Chicago, Ill. Automobiles. No. 82,863; Aug. 1; Gaz. vol. 169; p. 199.
Black Rock Machine Company, The, Bridgeport, Conn. Gas-engines. No. 82,565; July 11; Gaz. vol. 168; p. 519.
Black Swan Co., Waseca, Minn. Acetylene, gasolene, and kerosene lighting and heating systems and parts thereof. No. 83,633; Oct. 3; Gaz. vol. 171; p. 209.
Blackie, Guy R., New York, N. Y. Soluble pessaries. No. 81,950; May 23; Gaz. vol. 166; p. 981.
Blackledge, John W., Chicago, Ill. Auxiliary springs for vehicles. No. 80,888; Feb. 14; Gaz. vol. 163; p. 477.
Blackstone Mfg. Company, Providence, R. I. Cotton piece goods. No. 82,293; June 20; Gaz. vol. 167; p. 757.
Blackwell Milling & Elevator Company, Blackwell, Okla. Wheat-flour. No. 80,756; Jan. 31; Gaz. vol. 162; p. 1179.
Blake, James E., Jr., Waltham, Mass. Remedy for eczema. No. 81,777; May 9; Gaz. vol. 166; p. 507.
Blakeney Woolen Co. Limited, The, Blakeney, Ontario, Canada. Antiseptic blankets. No. 84,075; Nov. 7; Gaz. vol. 172; p. 255.
Blanc Stainless Cement Company, Jersey City, N. J., and Allentown, Pa. Portland cement. No. 82,132; June 6; Gaz. vol. 167; p. 237.
Blanchite Paint Company, New York, N. Y., assignor to Blanchite Paint Company. Waterproofing-paint. No. 82,676; July 18; Gaz. vol 168; p. 783.
Blank and Gottshall, Sunbury, Pa. Wheat-flour. No. 84,076; Nov. 7; Gaz. vol. 172; p. 255.
Blankenheym & Nolet's Distilleerderij, Rotterdam, Netherlands. Gin and cordials. No. 81,848; May 16; Gaz. vol. 166; p. 747.
Blaufuss, John, Riverside, N. J. Carbonated beverages and containing syrups. No. 84,161; Nov. 14; Gaz. vol. 172; p. 545.
Blaurock, Wilhelm, Hamburg, Germany. Baking-powder. No. 82,043; May 30; Gaz. vol. 166; p. 1277.
Blériot, Louis, Neuilly and Levallois-Perret, near Paris, France. Flying-machines. No. 81,778; May 9; Gaz. vol. 166; p. 507.
Blish Milling Company, The, Seymour, Ind. Stock food. No. 80,636; Jan. 17; Gaz. vol. 162; p. 779.
Blish Milling Company, The, Seymour, Ind. Wheat-flour. Nos. 80,637–8; Jan. 17; Gaz. vol. 162; p. 779.
Blish Milling Company, The, Seymour, Ind. Wheat-flour. No. 81,322; Mar. 28; Gaz. vol. 164; p. 971.
Bliss Brothers Company, Attleboro, Mass. Charms, bracelets, precious-metal hat-pins, &c. No. 81,380; Apr. 4; Gaz. vol. 165; p. 237.
Bliss Brothers Company, Attleboro, Mass. Bracelets and lockets. No. 83,552; Sept. 26; Gaz. vol. 170; p. 923.
Bliss, George R., Silver Springs, Md. Eggs. No. 83,812; Oct. 17; Gaz. vol. 171; p. 739.
Bloch, Bert K., New York, N. Y. Whisky. No. 81,244; Mar. 21; Gaz. vol. 164; p. 735.
Block, Max, New York, N. Y. Sardines. No. 83,813; Oct. 17; Gaz. vol. 171; p. 739.
Blodgett & Orswell Co., Pawtucket, R. I. Spool-cotton. No. 81,245; Mar. 21; Gaz. vol. 164; p. 735.
Blodgett & Orswell Co., Pawtucket, R. I. Spool-cotton. No. 81,669; May 2; Gaz. vol. 166; p. 245.
Bobrick Chemical Co., Los Angeles, Cal. Cleaning preparation. No. 82,957; Aug. 8; Gaz. vol. 169; p. 445.
Bobrick Chemical Co., Los Angeles, Cal. Fluid soap. No. 83,214; Aug. 29; Gaz. vol. 169; p. 1179.
Bodek Company, W., Philadelphia, Pa. Hair-nets. No. 83,130; Aug. 22; Gaz. vol. 169; p. 939.
Boex, Anthony M., Chicago, Ill. Chocolates. No. 84,376; Dec. 12; Gaz. vol. 173; p. 579.
Bohn, Theodore C., Fort Wayne, Ind. Ointment. No. 83,472; Sept. 19; Gaz. vol. 170; p. 699.
Bojnowski, Lucyan, New Britain, Conn. Newspaper. No. 82,201; June 13; Gaz. vol. 167; p. 509.
Bokay, Charles, New York, N. Y. Mushroom sauce. No. 81,581; Apr. 25; Gaz. vol. 165; p. 967.
Boker, Carl F., New York, N. Y. Steel blocks, bars, rods, sheets, and plates. No. 82,677; July 18; Gaz. vol. 168; p. 783.
Bokert Springs Mineral Water Company, De Soto, Mo., and Chicago, Ill. Natural mineral water. No. 82,044; May 30; Gaz. vol. 166; p. 1277.
Bollinger, Alexander M., Leechburg, Pa. Coaster-wagon. No. 80,639; Jan. 17; Gaz. vol. 162; p. 779.
Bolwell, Charles, Chicago, Ill. Chewing-gum. No. 80,757; Jan. 31; Gaz. vol. 162; p. 1179.
Bona fide Mfg. Co., Plymouth, Mich. Fish-spears. No. 80,758; Jan. 31; Gaz. vol. 162; p. 1179.

Alphabetical list of registrants of trade-marks—Continued.

Bondat Freres & Cie., Grenoble, France. Leather gloves. No. 81,497; Apr. 18; Gaz. vol. 165; p. 725.
Boning, Alfred J., Boston, Mass. Hosiery. No. 84,455; Dec. 19; Gaz. vol. 173; p. 857.
Boozer, Dee T., Dayton, Ohio. Medicinal tonic. No. 81,582; Apr. 25; Gaz. vol. 165; p. 967.
Boracol Chemical Co., Passaic, N. J. Certain toilet preparations. No. 83,553; Sept. 26; Gaz. vol. 170; p. 923.
Boren-Stewart Company, Dallas, Tex. Coffee and canned fruits, vegetables, fish, and oysters. No. 80,699; Jan. 24; Gaz. vol. 162; p. 995.
Boren-Stewart Company, Dallas, Tex. Certain foods. No. 81,951; May 23; Gaz. vol. 166; p. 981.
Bosch & Co., Badalona, near Barcelona, Spain. Anisette. No. 82,568; July 11; Gaz. vol. 168; p. 519.
Bosch & Co., Badalona, near Barcelona, Spain. Anisette. No. 83,318; Sept. 5; Gaz. vol. 170; p. 239.
Bosman & Lohman Co., Norfolk, Va. Peanut-butter. No. 82,407; June 27; Gaz. vol. 167; p. 977.
Boston Belting Company, Boston, Mass. Textile belting. No. 82,295; June 20; Gaz. vol. 167; p. 757.
Boston Manufacturing Co. 1901, The, Boston, Mass. Ginghams. No. 83,554; Sept. 26; Gaz. vol. 170; p. 923.
Boston Manufacturing Co. 1901, The, Boston, Mass. Ginghams. No. 83,891; Oct. 24; Gaz. vol. 171; p. 979.
Boston Manufacturing Company 1901, The, Boston, Mass. Ginghams. No. 81,323; Mar. 28; Gaz. vol. 164; p. 971.
Boston Molasses Co., Boston, Mass. Molasses. No. 81,498; Apr. 18; Gaz. vol. 165; p. 725.
Boston Pneumatic Action Company, Portland, Me., and Boston, Mass. Vacuum-cleaners. No. 83,132; Aug. 22; Gaz. vol. 169; p. 939.
Bosworth, Frederick C., assignor to The Cleveland Kitchen Utensil Company, Cleveland, Ohio. Grease and fat separators. No. 84,456; Dec. 19; Gaz. vol. 173; p. 857.
Botany Worsted Mills, Passaic, N. J. Woolen dress goods. No. 83,319; Sept. 5; Gaz. vol. 170; p. 239.
Boucard, Pierre, Paris, France, and New York, N. Y. Remedy for the treatment of intestinal affections. No. 81,952; May 23; Gaz. vol. 166; p. 981.
Boucher & Son, Wm., Baltimore, Md. Cigars. No. 84,360; Dec. 5; Gaz. vol. 173; p. 283.
Bour Company, The, Toledo, Ohio. Coffee. No. 82,408; June 27; Gaz. vol. 167; p. 977.
Bour Company, The, Toledo, Ohio. Blended coffee. No. 82,753; July 25; Gaz. vol. 168; p. 1027.
Bour Company, The, Toledo, Ohio. Coffee. No. 82,958; Aug. 8; Gaz. vol. 169; p. 445.
Bour Company, The, Toledo, Ohio. Blended coffee. No. 83,386; Sept. 12; Gaz. vol. 170; p. 477.
Bourgeois Company, The, Omaha, Nebr. Beeswax candles. No. 80,826; Feb. 7; Gaz. vol. 163; p. 227.
Bourn Rubber Co., Providence, R. I. Rubber boots and shoes. No. 81,246; Mar. 21; Gaz. vol. 164; p. 735.
Boush, Genevieve, Virginia Beach, Va. Certain medicinal preparation. No. 82,296; June 20; Gaz. vol. 167; p. 757.
Bowker Fertilizer Company, New York, N. Y. Fertilizers. No. 82,297; June 20; Gaz. vol. 167; p. 757.
Bowker Fertilizer Company, New York, N. Y. Fertilizers for flowers. No. 83,133; Aug. 22; Gaz. vol. 169; p. 939.
Bowker Fertilizer Company, New York, N. Y. Medicated food compositions for fowls and swine. No. 83,216; Aug. 29; Gaz. vol. 169; p. 1179.
Bowker Fertilizer Company, New York, N. Y. Fertilizers and manures. No. 83,555; Sept. 26; Gaz. vol. 170; p. 923.
Bowker Insecticide Co., New York, N. Y. Insecticides. Nos. 82,409–10; June 27; Gaz. vol. 167; p. 977.
Bowman, Albert N., assignor to Corona Chemical Company, Sharon Hill, Pa. Certain medical remedy. No. 81,670; May 2; Gaz. vol. 166; p. 245.
Bowman & Co., L. F., Cincinnati, Ohio. Cloaks, outer suits, and skirts. No. 83,203; Aug. 29; Gaz. vol. 169; p. 1179.
Bowman, Thomas B., Boone, Nebr. Veterinary remedy for diseases of the blood. No. 82,569; July 11; Gaz. vol. 168; p. 519.
Bowman's Sons, Ezra F., Lancaster, Pa. Technical books. No. 82,202; June 13; Gaz. vol. 167; p. 509.
Boyd Fruit Sugar Co., The, New York, N. Y. Compound of orange and sugar. No. 82,298; June 20; Gaz. vol. 167; p. 757.
Boynton Furnace Company, New York, N. Y. Cooking stoves and ranges and furnaces. No. 80,640; Jan. 17; Gaz. vol. 162; p. 779.
Bradentown Citrus Growers Association, Bradentown, Fla. Oranges, lemons, grape-fruit, limes, and tangerines. No. 83,982; Oct. 31; Gaz. vol. 171; p. 1253.
Bradentown Citrus Growers Association, Bradentown, Fla. Certain fruits. No. 84,585; Dec. 26; Gaz. vol. 173; p. 1073.
Bradford Belting Co., Cincinnati, Ohio. Leather belting. No. 80,700; Jan. 24; Gaz. vol. 162; p. 995.
Brady, Patrick, New York, N. Y. Furniture-polish. No. 80,571; Jan. 10; Gaz. vol. 162; p. 533.
Brandt-Dent Company, Watertown, Wis. Chandeliers, lamp brackets and pendents. No. 82,754; July 25; Gaz. vol. 168; p. 1027.
Brant, Clarence S., Avon, Ill. Ointment. No. 80,511; Jan. 3; Gaz. vol. 162; p. 265.
Brant and Hener, Quincy, Ill. Remedy for diseases of the throat. No. 83,044; Aug. 15; Gaz. vol. 169; p. 697.
Brasington, John M., Bennettsville, S. C. Pea and bean threshers and hullers. No. 80,889; Feb. 14; Gaz. vol. 163; p. 477.
Brass, William, London, England. Medicinal pills. No. 84,208; Nov. 21; Gaz. vol. 172; p. 817.
Brate, William C., Albany, N. Y. Tomato catsup, mustard, and flavoring extracts. No. 80,890; Feb. 14; Gaz. vol. 163; p. 477.
Braun, Emil, Cincinnati, Ohio. Loaf-bread. No. 83,217; Aug. 29; Gaz. vol. 169; p. 1179.
Braun, Philip, Pittsburgh, Pa. Blended whisky and brandy. No. 84,162; Nov. 14; Gaz. vol. 172; p. 545.
Braunsdorf-Mueller Company, Elizabeth, N. J. Hand-tools. No. 81,499; Apr. 18; Gaz. vol. 165; p. 725.
Bredell Compositions Company of the Pacific Coast, San Francisco, Cal. Copper paints and antifouling preservative compositions. No. 81,953; May 23; Gaz. vol. 166; p. 981.
Bredell Compositions Company of the Pacific Coast, San Francisco, Cal. Anticorrosive antifouling paints. No. 82,299; June 20; Gaz. vol. 167; p. 757.
Bregstone, Nathan, New York, N. Y. Boys' blouses, shirts, and knee-pants. No. 83,892; Oct. 24; Gaz. vol. 171; p. 979.
Bremond, John, Austin, Tex. Coffee. No. 80,641; Jan. 17; Gaz. vol. 162; p. 779.
Brener, Saul, Boston, Mass. Petticoats. No. 81,500; Apr. 18; Gaz. vol. 165; p. 725.
Bretherton, Annie M., Pueblo, Colo. Pile remedy. No. 84,587; Dec. 26; Gaz. vol. 173; p. 1073.
Breustedt, Otto W., San Antonio, Tex. Medicinal liquid compound soap. No. 83,387; Sept. 12; Gaz. vol. 170; p. 477.
Brill Brothers, New York, N. Y. Boys' coats, pants, and vests. No. 80,512; Jan. 3; Gaz. vol. 162; p. 265.
Bristol Broom Company, Bristol, Tenn. Brooms. No. 83,983; Oct. 31; Gaz. vol. 171; p. 1253.
Bristol Drug and Gum Corporation. (See Bristol Drug Mfg. Co., assignor.)
Bristol Drug Mfg. Co., Bristol, Va., assignor to Bristol Drug and Gum Corporation, Bristol, Tenn. Chewing-gum. No. 80,701; Jan. 24; Gaz. vol. 162; p. 995.
Britton, Thomas J., Dallas, Tex. Kidney remedy, borated cream, and cough-syrup. No. 81,849; May 16; Gaz. vol. 166; p. 747.
Brock Grocery Company, Montgomery, Ala. Baking-powder. No. 81,381; Apr. 4; Gaz. vol. 165; p. 237.
Broderick & Bascom Rope Company, St. Louis, Mo. Vehicle tow-lines. No. 82,133; June 6; Gaz. vol. 167; p. 237.
Brody & Funt, New York, N. Y. Ladies' outer suits. No. 82,134; June 6; Gaz. vol. 167; p. 237.
Brogon Mills, Anderson, S. C. Cotton dometts and flannels. No. 82,300; June 20; Gaz. vol. 167; p. 757.
Brooke Bond & Company, Limited, London, England. Teas. No. 83,984; Oct. 31; Gaz. vol. 171; p. 1253.
Brookfield Glass Company, The, Oldbridge, N. J. Glass insulators. No. 81,324; Mar. 28; Gaz. vol. 164; p. 971.
Brooklyn Elevator & Milling Company, New York, N. Y. Wheat-flour, stock and poultry feed. No. 84,078; Nov. 7; Gaz. vol. 172; p. 255.
Brooks, Albert P., assignor to Cameo Manufacturing Company, Worcester, Mass. Washing compounds. No. 82,495; July 4; Gaz. vol. 168; p. 245.
Brooksville Citrus Growers' Association, Brooksville, Fla. Certain fruits. No. 84,588; Dec. 26; Gaz. vol. 173; p. 1073.
Brotherhood of Disciples of Christ, Kansas City, Mo. Printed pamphlets and circulars. No. 81,850; May 16; Gaz. vol. 166; p. 747.
Brothers & Company, Chicago, Ill. Hats and caps. No. 82,045; May 30; Gaz. vol. 166; p. 1277.
Brown, Atherton T.; A. R. Robertson, Boston, Mass., trustee. Medicated lozenges. No. 81,300; Mar. 21; Gaz. vol. 164; p. 736.
Brown Cracker & Candy Company, Dallas, Tex. Candy. No. 81,122; Mar. 7; Gaz. vol. 164; p. 245.
Brown, Daniel V., Philadelphia, Pa. Eyeglass-mountings. No. 84,079; Nov. 7; Gaz. vol. 172; p. 255.
Brown Durrell Co., Boston, Mass. Hosiery. No. 80,572; Jan. 10; Gaz. vol. 162; p. 533.
Brown Durrell Co., Boston, Mass. Knitted shirts, vests, drawers, and union suits. No. 80,827; Feb. 7; Gaz. vol. 163; p. 227.
Brown Durrell Co., Boston, Mass. Certain fancy goods. No. 82,570; July 11; Gaz. vol. 168; p. 519.
Brown Durrell Co., Boston, Mass. Handkerchiefs. No. 82,959; Aug. 8; Gaz. vol. 169; p. 445.
Brown, Henry R., Greeneville, Tenn. Flavoring extracts. No. 83,985; Oct. 31; Gaz. vol. 171; p. 1253.
Brown, Howard C., Lyman Viaduct, Conn. Fish-lines. No. 84,080; Nov. 7; Gaz. vol. 172; p. 255.
Brown Milling Company, Minneapolis, Minn. Wheat-flour. No. 81,954; May 23; Gaz. vol. 166; p. 981.
Brown and Sehler Company, Grand Rapids, Mich. Certain horse equipments and leather goods. No. 82,867; Aug. 1; Gaz. vol. 169; p. 199.

Alphabetical list of registrants of trade-marks—Continued.

Brown Shoe Co., St. Louis, Mo. Shoes. No. 81,247; Mar. 21; Gaz. vol. 164; p. 735.
Bruguier Chemical Company, Newark, N. J. Certain toilet preparations. No. 81,583; Apr. 25; Gaz. vol. 165; p. 967.
Brun, Victor H. and Bernard L., Baltimore, Md. Hair tonic and pomatum. No. 80,983; Feb. 21; Gaz. vol. 163; p. 723.
Brunner, Emma, Wittenberg, Wis. Liniments. No. 83,135; Aug. 22; Gaz. vol. 169; p. 939.
Buckeye Cereal Company, The, Massillon, Ohio. Wheat-flour. No. 81,851; May 16; Gaz. vol. 166; p. 747.
Buckeye Pump & Manufacturing Company, The, Columbus, Ohio. Water-motors. No. 82,571; July 11; Gaz. vol. 168; p. 519.
Buckingham-Rae Company, Chicago, Ill. Garment racks and holders. No. 80,702; Jan. 24; Gaz. vol. 162; p. 995.
Buckingham-Rae Company, Chicago, Ill. Garment-racks. No. 81,429; Apr. 11; Gaz. vol. 165; p. 469.
Buckley-Newhall Company, The, New York, N. Y. Certain furniture. No. 81,671; May 2; Gaz. vol. 166; p. 245.
Buda Company, The, Chicago, Ill. Lifting-jacks. No. 83,893; Oct. 24; Gaz. vol. 171; p. 979.
Buffalo Specialty Company, Buffalo, N. Y. Oils for lubricating, cleaning, and polishing. No. 84,589; Dec. 26; Gaz. vol. 173; p. 1073.
Bump, Joseph, Anna, Ill. Cherry phosphate. No. 82,496; July 4; Gaz. vol. 168; p. 245.
Burch, Bailey & Co., New York, N. Y. Handkerchiefs and curtains. No. 80,759; Jan. 31; Gaz. vol. 162; p. 1179.
Burch, Bailey & Co., New York, N. Y. Certain clothing. No. 80,891; Feb. 14; Gaz. vol. 163; p. 477.
Burckhardt Company, The. (See Burckhardt & Company, assignor.)
Burckhardt & Company, assignor to The Burckhardt Company, Cincinnati, Ohio. Cleaning preparation. No. 81,430; Apr. 11; Gaz. vol. 165; p. 469.
Burger, Louis, New York, N. Y. Garters and armbands. No. 83,894; Oct. 24; Gaz. vol. 171; p. 979.
Burk, Louis, Philadelphia, Pa. Boiled ham. No. 80,984; Feb. 21; Gaz. vol. 163; p. 723.
Burk, Louis, Philadelphia, Pa. Prepared meats. No. 80,985; Feb. 21; Gaz. vol. 163; p. 723.
Burke & Co., Boston, Mass. Blended whiskies. No. 83,136; Aug. 22; Gaz. vol. 169; p. 939.
Burke & Co., Alfred, Leominster, Mass. Hair ornaments. No. 82,678; July 18; Gaz. vol. 168; p. 783.
Burke & James, Chicago, Ill. Sensitizing solution for making photographic prints. No. 81,502; Apr. 18; Gaz. vol. 165; p. 725.
Burke & James, Chicago, Ill. Sensitizing solution for making photographic prints. No. 81,584; Apr. 25; Gaz. vol. 165; p. 967.
Burke & James, Chicago, Ill. Intensifying compound for photographic negatives. No. 81,585; Apr. 25; Gaz. vol. 165; p. 967.
Burke & James, Chicago, Ill. Redeveloping solution for photographic prints. No. 81,586; Apr. 25; Gaz. vol. 165; p. 967.
Burkhart, William A., Vine Grove, Ky. Wheat-flour. No. 81,123; Mar. 7; Gaz. vol. 164; p. 245.
Burmeister & Company, Charles H., New York, N. Y. Butter and eggs. No. 82,756; July 25; Gaz. vol. 168; p. 1027.
Burnida Mfg. Co., The, Wilmington, Del. Scouring-soap. No. 83,218; Aug. 29; Gaz. vol. 169; p. 1179.
Burr, Ellis M., Champaign, Ill. Discus. No. 84,590; Dec. 26; Gaz. vol. 173; p. 1073.
Burrowes, Edward T., Portland, Me. Paper carpets and rugs. No. 84,209; Nov. 21; Gaz. vol. 172; p. 817.
Bush and Ilten, Grand Forks, N. D. Calcimining compound. No. 80,704; Jan. 24; Gaz. vol. 162; p. 995.
Buss, Henry, New York, N. Y. Toilet-combs. No. 83,388; Sept. 12; Gaz. vol. 170; p. 477.
Byrd, B. F., Tulsa, Okla. Medicine for treatment of cancers. No. 84,457; Dec. 19; Gaz. vol. 173; p. 857.
Byron Jackson Iron Works, San Francisco and West Berkeley, Cal. Certain pumps. No. 83,473; Sept. 19; Gaz. vol. 170; p. 699.
Byron Jackson Iron Works, San Francisco and West Berkeley, Cal. Machinery and tools and parts thereof. Nos. 83,474–5; Sept. 19; Gaz. vol. 170; p. 699.
C. Commichau & Co. Limited, Silkeborg, Denmark. Certain clothing. No. 82,964; Aug. 8; Gaz. vol. 169; p. 445.
C. Kenyon Co., Brooklyn, N. Y. Waterproof coats. No. 82,002; May 23; Gaz. vol. 166; p. 982.
C. Soap Company, Tomahawk, Wis. Soap. No. 81,672; May 2; Gaz. vol. 166; p. 245.
C. A. Gambrill Manufacturing Company, Baltimore, Md. Wheat-flour. No. 81,454; Apr. 11; Gaz. vol. 165; p. 470.
C. A. Mezger, Inc., New York, N. Y. Spark-plugs. No. 83,929; Oct. 24; Gaz. vol. 171; p. 980.
C. A. Woolsey Paint & Color Company, Jersey City, N. J. Cold-water paint. No. 82,545; July 4; Gaz. vol. 168; p. 246.
C. A. Woolsey Paint & Color Company, Jersey City, N. J. Interior paint. No. 82,546; July 4; Gaz. vol. 168; p. 246.
C. C. C. Company, Evansville, Ind. Medicinal remedies for chills, coughs, and corns. No. 82,411; June 27; Gaz. vol. 167; p. 977.
C. E. Gallagher Medicine Company, The, St. Louis, Mo. Medicinal tablets. No. 84,479; Dec. 19; Gaz. vol. 173; p. 858.
C. E. Sheppard Company, New York, N. Y. Loose-leaf binders and ledgers and leaves therefor. No. 82,917; Aug. 1; Gaz. vol. 169; p. 201.
C. F. Mueller Co., Jersey City, N. J. Egg noodles and macaroni. No. 83,685; Oct. 3; Gaz. vol. 171; p. 210.
C. F. Simmons Medicine Company, Incorporated, St. Louis, Mo. Tonic medicine and blood-purifier. No. 84,415; Dec. 12; Gaz. vol. 173; p. 580.
C. F. Simmons Medicine Company, Incorporated, St. Louis, Mo. Remedy for diseases of the liver. No. 84,689; Dec. 26; Gaz. vol. 173; p. 1076.
C. F. Ware Coffee Company, The, Dayton, Ohio. Blended coffee. No. 81,370; Mar. 28; Gaz. vol. 164; p. 972.
C. H. Nelson Metal Co. Inc., Baltimore, Md. Tin-plate, sheet-iron, and metals. No. 83,084; Aug. 15; Gaz. vol. 169; p. 698.
C. I. Hood Co., Lowell, Mass. General tonic and tonic for the nerves. No. 83,649; Oct. 3; Gaz. vol. 171; p. 209.
C. M. Robertson Company, The, Montville, Conn. Wrapping-paper and paper-boards. No. 81,745; May 2; Gaz. vol. 166; p. 247.
C. P. Matthews & Sons Inc., Scranton, Pa. Wheat-flour. No. 81,470; Apr. 11; Gaz. vol. 165; p. 470.
C. S. Morey Mercantile Co., Denver, Colo. Certain foods. No. 84,332; Nov. 28; Gaz. vol. 172; p. 1086.
C. S. Williams Manufacturing Company, Providence, R. I. Jewelry. No. 81,838; May 9; Gaz. vol. 166; p. 509.
C. W. Kelsey Manufacturing Company, Hartford, Conn. Automobiles. No. 83,261; Aug. 29; Gaz. vol. 169; p. 1180.
Cable Company, The, Chicago, Ill. Pianos. No. 81,248; Mar. 21; Gaz. vol. 164; p. 735.
Cadillac Garment Manufacturing Co., Detroit, Mich. Infants', children's, and misses' dresses. No. 84,458; Dec. 19; Gaz. vol. 173; p. 857.
Cady Paper Company, Chicago, Ill. Bond and writing paper. Nos. 80,986–7; Feb. 21; Gaz. vol. 163; p. 723.
Caldwell Milling & Elevator Company, The, Caldwell, Idaho. Wheat-flour. No. 80,988; Feb. 21; Gaz. vol. 163; p. 723.
Caldwell Milling & Elevator Company, The, Caldwell, Idaho. Wheat-flour. No. 82,047; May 30; Gaz. vol. 166; p. 1277.
California Compounding Corporation, San Jose, Cal. Detergent. Nos. 84,163–4; Nov. 14; Gaz. vol. 172; p. 545.
California Fruit Canners Association, San Francisco, Cal. Canned fruit and vegetables. No. 82,203; June 13; Gaz. vol. 167; p. 509.
California Fruit Canners Association, San Francisco, Cal. Canned fruits and vegetables. No. 82,412; June 27; Gaz. vol. 167; p. 977.
California Glove Company, San Francisco, Cal. Leather gloves. No. 81,779; May 9; Gaz. vol. 166; p. 507.
California Wine Association, San Francisco, Cal. Wine. Nos. 81,780–1; May 9; Gaz. vol. 166; p. 507.
California Wine Association, San Francisco, Cal. Claret-wine. No. 82,960; Aug. 8; Gaz. vol. 169; p. 445.
California Wine Association, San Francisco, Cal. Wine. No. 82,961; Aug. 8; Gaz. vol. 169; p. 445.
Calixto Lopez & Company, Jersey City, N. J. Cigars, cigarettes, and manufactured tobacco. Nos. 83,418–19; Sept. 12; Gaz. vol. 170; p. 478.
Calixto Lopez & Company, Jersey City, N. J. Cigars, cigarettes, and smoking-tobacco. No. 84,402; Dec. 12; Gaz. vol. 173; p. 579.
Calvert, Alan, Philadelphia, Pa. Dumb and bar bells and ring-weights. No. 83,814; Oct. 17; Gaz. vol. 171; p. 739.
Cambria Drug and Manufacturing Company, Johnstown, Pa. Liniment. No. 80,705; Jan. 24; Gaz. vol. 162; p. 995.
Cameo Manufacturing Company. (See Brooks, Albert P., assignor.)
Campbell, Metzger & Jacobson, New York, N. Y. Embroidery forms, molds, cuts, &c. No. 82,302; June 20; Gaz. vol. 167; p. 757.
Campbell, Metzger & Jacobson, New York, N. Y. Certain fancy goods and furnishings therefor. No. 83,389; Sept. 12; Gaz. vol. 170; p. 477.
Campbell, Metzger & Jacobson, New York, N. Y. Certain embroidery materials. No. 83,556; Sept. 26; Gaz. vol. 170; p. 923.
Campbell, Metzger & Jacobson, New York, N. Y. Artificial embroidery materials, crochet and knitting thread. No. 83,557; Sept. 26; Gaz. vol. 170; p. 923.
Campbell, Metzger & Jacobson, New York, N. Y. Certain embroidery materials. No. 83,713; Oct. 10; Gaz. vol. 171; p. 477.
Campbell, Metzger & Jacobson, New York, N. Y. Certain textile fabrics. No. 83,895; Oct. 24; Gaz. vol. 171; p. 979.
Campbell, Metzger & Jacobson, New York, N. Y. Certain embroidery materials. No. 83,896; Oct. 24; Gaz. vol. 171; p. 979.
Canby, Ach & Canby Co., The, Dayton, Ohio. Spices, teas, and flavoring extracts. No. 84,165; Nov. 14; Gaz. vol. 172; p. 545.

Alphabetical list of registrants of trade-marks—Continued.

Candow & Co., E. M., New York, N. Y. Toilet cream. No. 81,852; May 16; Gaz. vol. 166; p. 747.
Canfield Oil Co., The, Cleveland, Ohio. Paints for iron-work and roofing. No. 82,204; June 13; Gaz. vol. 167; p. 509.
Canfield Rubber Co., The, Bridgeport, Conn. Rubber washers. No. 82,135; June 6; Gaz. vol. 167; p. 237.
Canfield Rubber Co., Bridgeport, Conn. Plumbers' rubber goods. No. 82,413; June 27; Gaz. vol. 167; p. 977.
Canton Cutlery Company, The, Canton, Ohio. Pocket-knives, razors, scissors, and shears. No. 82,205; June 13; Gaz. vol. 167; p. 509.
Canton Sheet Steel Company, The, Canton, Ohio. Black and galvanized steel sheets. No. 82,757; July 25; Gaz. vol. 168; p. 1027.
Capewell Horse Nail Company, The, Hartford, Conn. Horse-nails. No. 80,706; Jan. 24; Gaz. vol. 162; p. 995.
Capital Advertising Company, Inc., Washington, D. C. Letter and shipping sheets and tags. No. 84,361; Dec. 5; Gaz. vol. 173; p. 283.
Capital City Dairy Co., The, Columbus, Ohio. Oleomargarin. No. 83,137; Aug. 22; Gaz. vol. 169; p. 939.
Capital City Dairy Co., The, Columbus, Ohio. Oleomargarin. No. 84,210; Nov. 21; Gaz. vol. 172; p. 817.
Capital City Woolen Mills, Des Moines, Iowa. Blankets. No. 83,138; Aug. 22; Gaz. vol. 169; p. 939.
Carborundum Company, The, Niagara Falls, N. Y. Abrasive articles. No. 83,390; Sept. 12; Gaz. vol. 170; p. 477.
Cárdenas, Amador, hijo, Mexico, Mexico. Medicine for relieving the pains of confinement. No. 83,714; Oct. 10; Gaz. vol. 171; p. 477.
Cardinal Cabinet Co., The, Wabash, Ind. Kitchen cabinets and benches. No. 83,320; Sept. 5; Gaz. vol. 170; p. 239.
Carl Lindström, Act. Ges., Berlin, Germany. Talking-machines. No. 82,448; June 27; Gaz. vol. 167; p. 978.
Carmel Wine Company, New York, N. Y. Port-wine. No. 83,986; Oct. 31; Gaz. vol. 171; p. 1253.
Carmichael, Joseph D., Fairmont, Nebr. Poultry-perches. No. 84,362; Dec. 5; Gaz. vol. 173; p. 283.
Carnie-Goudie Manufacturing Company, Kansas City, Mo. Hammocks. No. 80,642; Jan. 17; Gaz. vol. 162; p. 779.
Carpenter, Charles B., Waverly, Mo. Catarrh-salve. No. 81,853; May 16; Gaz. vol. 166; p. 747.
Carpenter Paper Company, Omaha, Nebr. Paper bags. Nos. 81,249–50; Mar. 21; Gaz. vol. 164; p. 735.
Carquinez Packing Co., San Francisco, Cal. Canned fruits. No. 82,048; May 30; Gaz. vol. 166; p. 1277.
Carr Milling Co., The, Hamilton, Ohio. Wheat-flour. No. 80,828; Feb. 7; Gaz. vol. 163; p. 227.
Carreras Limited, London, England. Tobacco, cigars, cigarettes, and snuff. No. 83,391; Sept. 12; Gaz. vol. 170; p. 477.
Carreràs and Marcianus Cigarettes Limited, London, England. Cigarettes manufactured from Turkish tobacco. No. 82,136; June 6; Gaz. vol. 167; p. 237.
Carroll, Phil F., Joliet, Ill. Dough mixing and molding machines, dough-dividers, &c. No. 82,414; June 27; Gaz. vol. 167; p. 977.
Carson, Pirie, Scott & Co., Chicago, Ill. Knit underwear. No. 80,892; Feb. 14; Gaz. vol. 163; p. 477.
Carson, Pirie, Scott & Co., Chicago, Ill. Textile drapery fabrics. No. 81,051; Feb. 28; Gaz. vol. 163; p. 973.
Carson, Pirie, Scott & Co., Chicago, Ill. Cotton piece goods. No. 81,052; Feb. 28; Gaz. vol. 163; p. 973.
Carson, Pirie, Scott & Co., Chicago, Ill. Knit underwear. No. 81,589; Apr. 25; Gaz. vol. 165; p. 967.
Carson, Pirie, Scott & Co., Chicago, Ill. Work-shirts. No. 81,854; May 16; Gaz. vol. 166; p. 747.
Carson, Pirie, Scott & Co., Chicago, Ill. Hosiery. No. Nos. 83,139–40; Aug. 22; Gaz. vol. 169; p. 939.
Carson, Pirie, Scott & Co., Chicago, Ill. Hosiery. No. 83,219; Aug. 29; Gaz. vol. 169; p. 1179.
Carson, Pirie, Scott & Co., Chicago, Ill. Silk and cotton mull. No. 84,460; Dec. 19; Gaz. vol. 173; p. 857.
Carter & Co., James, London, England. Seeds. No. 84,308; Nov. 28; Gaz. vol. 172; p. 1085.
Carter & Holmes, Chicago, Ill. Neckties. No. 82,758; July 25; Gaz. vol. 168; p. 1027.
Carter Springs Co., Danville, Va. Natural mineral-spring water. No. 83,815; Oct. 17; Gaz. vol. 171; p. 739.
Cary-Dane Manufacturing Co., Riverhead and New York, N. Y. Metal-polish and polishing-cloths. No. 82,137; June 6; Gaz. vol. 167; p. 237.
Cassella Color Company, New York, N. Y. Dyes and dye-stuffs. No. 81,325; Mar. 28; Gaz. vol. 164; p. 971.
Castle Kid Co., Camden, N. J. Kid-leather. No. 83,221; Aug. 29; Gaz. vol. 169; p. 1179.
Cavanna & Co., V. L., Philadelphia, Pa. Dried fruits. No. 80,643; Jan. 17; Gaz. vol. 162; p. 779.
Cedar Rapids Candy Company, Cedar Rapids, Iowa. Candy. No. 80,989; Feb. 21; Gaz. vol. 163; p. 723.
Celery Soda Co., San Francisco, Cal. Remedy for headache, nervousness, and stomach troubles. No. 81,674; May 2; Gaz. vol. 166; p. 245.
Celfor Tool Company, Chicago, Ill. Certain tools and machinery. No. 82,206; June 13; Gaz. vol. 167; p. 509.
Central Brokerage Company, Chicago, Ill. Canned sardines. No. 83,634; Oct. 3; Gaz. vol. 171; p. 209.
Central Candy Company, Chicago, Ill. Chocolate candies. No. 80,573; Jan. 10; Gaz. vol. 162; p. 533.
Central Door & Lumber Company, Portland, Oreg. Pigments, paints, stains, and varnishes. No. 83,045; Aug. 15; Gaz. vol. 169; p. 697.
Central Door & Lumber Company, Portland, Oreg. Siding and sheathing papers, roofing felts and fabrics, &c. No. 83,558; Sept. 26; Gaz. vol. 170; p. 923.
Central Knitting Company, St. Louis, Mo. Hosiery. No. 80,829; Feb. 7; Gaz. vol. 163; p. 227.
Central Knitting Company, St. Louis, Mo. Hosiery. No. 80,893; Feb. 14; Gaz. vol. 163; p. 477.
Century Co., The, New York, N. Y. Monthly magazine. No. 84,593; Dec. 26; Gaz. vol. 173; p. 1074.
Century Electric Co., St. Louis, Mo. Electric motors. No. 83,046; Aug. 15; Gaz. vol. 169; p. 697.
Century Knitting Mills, South Boston, Va. Hosiery. No. 82,207; June 13; Gaz. vol. 167; p. 509.
Century Sanitary Manufacturing Company, Eastwood, N. Y. Closet tanks and seats. No. 81,855; May 16; Gaz. vol. 166; p. 747.
Cereal Food Co., Peoria, Ill. Canned hulled corn. No. 81,432; Apr. 11; Gaz. vol. 165; p. 469.
Cerebos, Limited, Greatham, England. Preparation for thickening and seasoning gravy, soup, and stews. No. 81,503; Apr. 18; Gaz. vol. 165; p. 725.
Cerebos, Limited, Greatham, England. Food-coloring preparation. No. 81,782; May 9; Gaz. vol. 166; p. 507.
Cermak, Edward, Cleveland, Ohio. Liniment. No. 82,208; June 13; Gaz. vol. 167; p. 509.
Chaddock-Kurz Reversible Glove Co., The, Cleveland and Uhrichsville, Ohio. Reversible gloves. No. 82,303; June 20; Gaz. vol. 167; p. 757.
Chain Belt Company, Milwaukee, Wis. Drive, power, and conveyer chains. No. 84,211; Nov. 21; Gaz. vol. 172; p. 817.
Chambers, John A., New York, N. Y. Laundry bluing. Nos. 84,461–2; Dec. 19; Gaz. vol. 173; p. 857.
Chambers, John A., New York, N. Y. Bluing. No. 84,594; Dec. 26; Gaz. vol. 173; p. 1074.
Champion Blower & Forge Co., The, Lancaster, Pa. Portable forges and blowers therefor. No. 83,715; Oct. 10; Gaz. vol. 171; p. 477.
Champion Potato Machinery Co., Hammond, Ind. Potato planters and diggers. No. 80,644; Jan. 17; Gaz. vol. 162; p. 779.
Chandler and Rudd Company, The, Cleveland, Ohio. Candy. No. 82,415; June 27; Gaz. vol. 167; p. 977.
Chandler & Rudd Company, The, Cleveland, Ohio. Candy. No. 83,047; Aug. 15; Gaz. vol. 169; p. 697.
Chanute Window Glass Company, Chanute, Kans. Window-glass. No. 81,504; Apr. 18; Gaz. vol. 165; p. 725.
Charles E. Hardwood Company, Lynn, Mass. Counter-stiffeners for boots and shoes. No. 84,316; Nov. 28; Gaz. vol. 172; p. 1085.
Charles E. Hires Company, The, Philadelphia, Pa. Liquid-dispensing apparatus. No. 81,004; Feb. 21; Gaz. vol. 163; p. 724.
Charles F. Hubbs & Company, New York, N. Y. Wrapping-paper. No. 82,151; June 6; Gaz. vol. 167; p. 237.
Charles H. Adams Company, Ltd., New Orleans, La. Blended tea. No. 82,040; May 30; Gaz. vol. 166; p. 1277.
Charles H. Besly & Company, Chicago, Ill. Babbitt metal, sheet-bronze, and bronze wire. No. 80,570; Jan. 10; Gaz. vol. 162; p. 533.
Charles H. Brown Paint Co., The, Brooklyn, N. Y. Shingle-stains. No. 81,501; Apr. 18; Gaz. vol. 165; p. 725.
Charles H. Rath Company, Philadelphia, Pa. Metal-polish. No. 83,772; Oct. 10; Gaz. vol. 171; p. 479.
Charles Hewitt & Sons Company, Des Moines, Iowa. Canned goods. No. 81,877; May 16; Gaz. vol. 166; p. 748.
Charles L. Kiewert Company, New York, N. Y. Electric-light carbons. No. 80,659; Jan. 17; Gaz. vol. 162; p. 779.
Charles, Phyllis E., Portland, Oreg. Certain electric appliances for imparting electricity to the human body. No. 81,783; May 9; Gaz. vol. 166; p. 507.
Charles S. Merton & Co., New York, N. Y. Caps. No. 83,174; Aug. 22; Gaz. vol. 169; p. 940.
Charvin, Auguste, Bois Colombes, Seine, France. Ready-mixed paint. No. 81,506; Apr. 18; Gaz. vol. 165; p. 725.
Chas. A. Maish Co., Cincinnati, Ohio. Cotton piece goods. No. 80,859; Feb. 7; Gaz. vol. 163; p. 228.
Chas. A. Maish Co., Cincinnati, Ohio. Silk piece goods. No. 82,006; May 23; Gaz. vol. 166; p. 983.
Chas. A. Maish Co., Cincinnati, Ohio. Cotton piece goods. No. 82,007; May 23; Gaz. vol. 166; p. 983.
Chas. A. Stevens & Bros., Chicago, Ill. Corsets. No. 84,545; Dec. 19; Gaz. vol. 173; p. 860.
Chas. Emmerich & Co., Chicago, Ill. Feather pillows. No. 80,770; Jan. 31; Gaz. vol. 162; p. 1179.
Chas. & Thos. Harris & Co. Limited, Calne, England. Hams, bacon, lard, and brawn. No. 82,324; June 20; Gaz. vol. 167; p. 758.
Chase & Company, Jacksonville, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 83,223; Aug. 29; Gaz. vol. 169; p. 1179.

Alphabetical list of registrants of trade-marks—Continued.

Chase, Ernest D., Somerville, Mass. Certain cards, booklets, wedding-invitations, and valentines. No. 83,141; Aug. 22; Gaz. vol. 169; p. 939.
Chatfield Manufacturing Company, Cincinnati, Ohio. Roofing paper and felt. No. 82,572; July 11; Gaz. vol. 168; p. 519.
Cheery Nectar Co., Rome, Ga. Beverages and flavoring extracts therefor. No. 83,392; Sept. 12; Gaz. vol. 170; p. 477.
Chemical Paper Co., Holyoke, Mass. Writing and printing paper. No. 80,760; Jan. 31; Gaz. vol. 162; p. 1179.
Chemical Specialty Company, Melrose and Boston, Mass. Wax for lubricating and waxing thread. No. 81,590; Apr. 25; Gaz. vol. 165; p. 967.
Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Silver preparations for medicinal purposes. No. 80,761; Jan. 31; Gaz. vol. 162; p. 1179.
Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Chemical products for galvanic bath solutions. No. 81,507; Apr. 18; Gaz. vol. 165; p. 725.
Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Photographic toning preparations. No. 84,595; Dec. 26; Gaz. vol. 173; p. 1074.
Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Remedies for treatment of gout and rheumatism. No. 84,596; Dec. 26; Gaz. vol. 173; p. 1074.
Chemische Fabrik Helfenberg A.-G. vorm. Eugen Dieterich, Helfenberg, near Dresden, Germany. Medicinal plasters. No. 81,784; May 9; Gaz. vol. 166; p. 507.
Chemische Fabrik Helfenberg A. G. vorm. Eugen Dieterich, Helfenberg, near Dresden, Germany. Laxative medicinal gelatin preparations. No. 84,309; Nov. 28; Gaz. vol. 172; p. 1085.
Cherokee Electrical Supply Company, Bartlesville, Okla. Mantles for gas-lamps. No. 82,416; June 27; Gaz. vol. 167; p. 977.
Cherokee Fertilizer Company, Macon, Ga. Fertilizer. No. 81,433; Apr. 11; Gaz. vol. 165; p. 469.
Cherry Blossoms Manufacturing Company, Newton, Iowa. Fruit beverage. No. 84,378; Dec. 12; Gaz. vol. 173; p. 579.
Cherry, Herman G., Kansas City, Mo. Stock food. No. 80,707; Jan. 24; Gaz. vol. 162; p. 995.
Cherry, Herman G., Kansas City, Mo. Stock food. No. 84,212; Nov. 21; Gaz. vol. 172; p. 817.
Cherub Portable High Chair Co., Chicago, Ill. Portable high chairs. No. 82,573; July 11; Gaz. vol. 168; p. 519.
Chester Enamelling Company, Chester, Pa. Enameled leather. No. 81,198; Mar. 14; Gaz. vol. 164; p. 503.
Chester, Margaret, London, Ontario, Canada. Ointment. No. 81,434; Apr. 11; Gaz. vol. 165; p. 469.
Chew, John W., Baltimore, Md. Fresh fish and game and canned oysters. No. 82,497; July 4; Gaz. vol. 168; p. 245.
Chew Pack Company, Los Angeles, Cal. Medicinal tonic. No. 81,053; Feb. 28; Gaz. vol. 163; p. 973.
Chicago Stove & Range Co., Chicago, Ill. Certain heating apparatus. No. 80,894; Feb. 14; Gaz. vol. 163; p. 477.
Chiesa Hermanos, Rosario, Santa Fé, Argentina, and New York, N. Y. Certain machinery, cutlery, tools, and parts thereof. No. 83,156; Aug. 22; Gaz. vol. 169; p. 940.
Chillington Tool Company, Limited, The, Wolverhampton, England. Metal hoes and shovels. No. 84,379; Dec. 12; Gaz. vol. 173; p. 579.
Chipman's Sons, Chas., Easton and Selinsgrove, Pa. Hosiery. No. 83,393; Sept. 12; Gaz. vol. 170; p. 477.
Chloroxine Company, The, Brooklyn, N. Y. A liquid and chemical in powder form for cleaning purposes. No. 82,049; May 30; Gaz. vol. 166; p. 1277.
Christman, Minnie L., Oakland, Cal. Remedy for female diseases. No. 82,759; July 25; Gaz. vol. 168; p. 1027.
Christr. Thomas & Bros., Bristol, England. Wax and stearin candles and night-lights. No. 84,213; Nov. 21; Gaz. vol. 172; p. 817.
Church & Dwight Co., New York, N. Y. Washing-soda. No. 81,125; Mar. 7; Gaz. vol. 164; p. 245.
Cincinnati Sheet Metal & Roofing Company, The, Cincinnati, Ohio. Sheet metal. No. 81,591; Apr. 25; Gaz. vol. 165; p. 967.
Cini, Domenico, Philadelphia, Pa. Macaroni, spaghetti, and vermicelli. No. 81,251; Mar. 21; Gaz. vol. 164; p. 735.
"Cito" Sicherheits-Rasiermesser Gesellschaft m. b. H., Leipzig, Germany. Blades for safety-razors. No. 83,476; Sept. 19; Gaz. vol. 170; p. 699.
City Fuel Company, Chicago, Ill. Coal. No. 83,224; Aug. 29; Gaz. vol. 169; p. 1179.
Clague, Stanley, assignor to Yours Truly Company, Chicago, Ill. Whisky, brandy, gin, &c. No. 81,435; Apr. 11; Gaz. vol. 165; p. 469.
Clague, Stanley, assignor to Yours Truly Company, Chicago, Ill. Snuff, cheroots, and stogies. No. 82,050; May 30; Gaz. vol. 166; p. 1277.
Clague, Stanley, assignor to Yours Truly Company, Chicago, Ill. Ale, porter, stout, and malt extract. No. 82,209; June 13; Gaz. vol. 167; p. 509.
Clague, Stanley, assignor to Yours Truly Company, Chicago, Ill. Certain wines. No. 82,417; June 27; Gaz. vol. 167; p. 977.
Clapp Fire Resisting Paint Company, The, Bridgeport, Conn. Fire-resisting and waterproof paints. No. 83,477; Sept. 19; Gaz. vol. 170; p. 699.
Clapp & Jones, Atlanta, Ga. Syrup for making a cola beverage. No. 81,199; Mar. 14; Gaz. vol. 164; p. 503.
Clark & Coombs Co., Providence, R. I. Finger-rings, baby-pins, bracelets, &c. No. 82,418; June 27; Gaz. vol. 167; p. 977.
Clark, Florence A., Austin, Tex. Preparation for starting fires. No. 80,895; Feb. 14; Gaz. vol. 163; p. 477.
Clark, Frank B., Ottumwa, Iowa. Carbonated beverages. No. 84,214; Nov. 21; Gaz. vol. 172; p. 817.
Clark, Howard F. G., Syracuse, N. Y. Antiseptic surgical dressings. No. 80,830; Feb. 7; Gaz. vol. 163; p. 227.
Clark-Hutchinson Company, Boston, Mass. Boots and shoes. No. 81,200; Mar. 14; Gaz. vol. 164; p. 503.
Clark Manufacturing Company, The, Boston, Mass. Men's garters. No. 81,126; Mar. 7; Gaz. vol. 164; p. 245.
Clarke Bros., Scranton, Pa. Baking-powder and cream of tartar. No. 81,592; Apr. 25; Gaz. vol. 165; p. 967.
Claus, Richard, East Orange, N. J. Composition for waterproofing cement. No. 80,574; Jan. 10; Gaz. vol. 162; p. 533.
Clauss, Henrie, Fremont, Ohio. Shears, pruners, snips, razors, &c. No. 81,383; Apr. 4; Gaz. vol. 165; p. 237.
Clayton, H. Manning, Plainville, Conn. Soap used as a detergent and a polish. No. 83,394; Sept. 12; Gaz. vol. 170; p. 477.
Clerke, William H., Philadelphia, Pa. Corn-salve. No. 82,760; July 25; Gaz. vol. 168; p. 1027.
Cleveland-Akron Bag Co., The, Cleveland, Ohio. Paper bags. No. 81,201; Mar. 14; Gaz. vol. 164; p. 503.
Cleveland Cream Cheese Co., The, Cleveland, Ohio. Cream-cheese. No. 83,142; Aug. 22; Gaz. vol. 169; p. 939.
Cleveland Kitchen Utensil Company, The. (See Bosworth, Frederick C., assignor.)
Cleveland Macaroni Company, Cleveland, Ohio. Macaronic paste foods. No. 81,785; May 9; Gaz. vol. 166; p. 507.
Cleveland Steel Tool Company, The, Cleveland, Ohio. Valves. No. 84,463; Dec. 19; Gaz. vol. 173; p. 857.
Climax Cleaner & Cleveland Paste Co., The, Cleveland, Ohio. Cleaner for wall-paper. No. 83,987; Oct. 31; Gaz. vol. 171; p. 1253.
Climax Coffee & Baking Powder Company, The, Indianapolis, Ind. Blended coffee. No. 82,051; May 30; Gaz. vol. 166; p. 1277.
Cling-Surface Company, Buffalo, N. Y. Composition for preventing slippage of transmission-belts. No. 84,167; Nov. 14; Gaz. vol. 172; p. 545.
Clinton Metallic Paint Company, Clinton, N. Y. Mortar-coloring. No. 82,052; May 30; Gaz. vol. 166; p. 1277.
Clinton Metallic Paint Company, Clinton, N. Y. Iron-oxid paints. No. 82,304; June 20; Gaz. vol. 167; p. 757.
Closset & Devers, Portland, Oreg. Coffee. Nos. 80,575–80; Jan. 10; Gaz. vol. 162; p. 533.
Closset & Devers, Portland, Oreg. Coffee. No. 80,762; Jan. 31; Gaz. vol. 162; p. 1179.
Closset & Devers, Portland, Oreg. Blended coffee. No. 81,127; Mar. 7; Gaz. vol. 164; p. 245.
Closset & Devers, Portland, Oreg. Baking-powder. No. 81,786; May 9; Gaz. vol. 166; p. 507.
Closset & Devers, Portland, Oreg. Salad-dressing powder. No. 83,478; Sept. 19; Gaz. vol. 170; p. 699.
Closset & Devers, Portland, Oreg. Imitation maple flavor. No. 84,464; Dec. 19; Gaz. vol. 173; p. 857.
Clover Leaf Yeast Co., Ramsey, Ill. Yeast. No. 84,310; Nov. 28; Gaz. vol. 172; p. 1085.
Cloverdale Company, The, Boston, Mass. Tea and coffee. No. 81,253; Mar. 21; Gaz. vol. 164; p. 735.
Coast Manufacturing & Supply Co., Oakland, Cal. Blasting-fuses. No. 82,419; June 27; Gaz. vol. 167; p. 977.
Coast Products Company, The, St. Louis, Mo. Canned, preserved, and dried fruits and canned vegetables. No. 82,053; May 30; Gaz. vol. 166; p. 1277.
Coast Products Company, The, St. Louis, Mo. Canned, preserved, and dried fruits and canned vegetables. No. 82,498; July 4; Gaz. vol. 168; p. 245.
Coast Products Company, The, St. Louis, Mo. Canned goods and preserved fruits. No. 82,761; July 25; Gaz. vol. 168; p. 1027.
Cochrane Manufacturing Company, Dedham, Mass. Carpets. No. 81,675; May 2; Gaz. vol. 166; p. 245.
Cocker Bros. Ltd., Sheffield, England. Steel in unwrought and partly-wrought forms. No. 81,326; Mar. 28; Gaz. vol. 164; p. 971.
Codman, F. L. & J. C., Boston, Mass. Buffing and polishing wheels. No. 82,210; June 13; Gaz. vol. 167; p. 509.
Coffin Redington Co., San Francisco, Cal. Toilet cream. No. 82,574; July 11; Gaz. vol. 168; p. 519.
Coffman & Bloch, Portland, Oreg. Combined liniment and ointment. No. 84,597; Dec. 26; Gaz. vol. 173; p. 1074.
Cohen & Company, J. M., San Francisco, Cal. Men's neck ties and scarfs. No. 82,679; July 18; Gaz. vol. 168; p. 783.
Cohn & Co., H. C., Rochester, N. Y. Hosiery and reefers. No. 81,787; May 9; Gaz. vol. 166; p. 507.
Cohn, J. & M., New York, N. Y. Shirt-waists and dresses. No. 83,048; Aug. 15; Gaz. vol. 169; p. 697.

Alphabetical list of registrants of trade-marks—Continued.

Coldren, Darius D., Schuylkill Haven, Pa. Cotton knitted underwear. No. 82,963; Aug. 8; Gaz. vol. 169; p. 445.
Cole & Co., J. W., Black River Falls, Wis. Polishing and emollient compound for leather, fiber, belting, and ropes. No. 83,636; Oct. 3; Gaz. vol. 171; p. 209.
Cole & Co., J. W., Black River Falls, Wis. Tonic and remedy for blood diseases. No. 84,380; Dec. 12; Gaz. vol. 173; p. 579.
Coleman & Co. Ltd., Norwich, England. Preparation of wine, extract of meat, and malt. No. 83,323; Sept. 5; Gaz. vol. 170; p. 239.
Coleman, Ellen E., Mitchell, Ind. Sealing-wax. No. 82,575; July 11; Gaz. vol. 168; p. 519.
Coleman, Sol, Memphis, Tenn. Disinfectant, germ-destroyer, and deodorizer. No. 84,311; Nov. 28; Gaz. vol. 172; p. 1085.
Coleman, Theophilus N., Knoxville, Tenn. Hair preparation. No. 82,054; May 30; Gaz. vol. 166; p. 1277.
Colgate & Co., Jersey City, N. J., and New York, N. Y. Soap. No. 80,896; Feb. 14; Gaz. vol. 163; p. 477.
Colgate & Co., Jersey City, N. J., and New York, N. Y. Liquid and powdered perfumes. No. 82,420; June 27; Gaz. vol. 167; p. 977.
Collins, A. Frederick, Newark, N. J. Telegraphic and telephonic apparatus. No. 80,708; Jan. 24; Gaz. vol. 162; p. 995.
Collins & Co., W. P., Chicago, Ill. Lubricating oils and greases. No. 83,143; Aug. 22; Gaz. vol. 169; p. 939.
Collyer Insulated Wire Company, Pawtucket, R. I. Insulated electric wires and cables. No. 81,955; May 23; Gaz. vol. 166; p. 981.
Colombo Macaroni Manufacturing Company, Spokane, Wash. Macaroni. No. 81,436; Apr. 11; Gaz. vol. 165; p. 469.
Colonial Leather Company, Chicago, Ill. Leather belting. No. 82,680; July 18; Gaz. vol. 168; p. 783.
Colonial Leather Company, Chicago, Ill. Tire-sleeves. No. 84,598; Dec. 26; Gaz. vol. 173; p. 1074.
Colt and Dixon Packing and Manufacturing Company of Frederick Maryland, Frederick, Md. Canned vegetables. No. 83,817; Oct. 17; Gaz. vol. 171; p. 739.
Coltrin, Lafayette, Omaha, Nebr. Imitation coffee. No. 81,789; May 9; Gaz. vol. 166; p. 507.
Columbia Cotton Oil and Provision Corporation, Relee, Va. Compound of cotton-seed oil and oleo-stearin. No. 80,629; Jan. 10; Gaz. vol. 162; p. 534.
Columbia Cotton Oil and Provision Corporation, Relee, Va. Oleaginous compound for cooking purposes. No. 82,138; June 6; Gaz. vol. 167; p. 237.
Columbia Cotton Oil and Provision Corporation, Relee, Va. Oleaginous compound for shortening. No. 82,762; July 25; Gaz. vol. 168; p. 1027.
Columbia Mattress Co., South Bend, Ind. Mattresses. No. 83,324; Sept. 5; Gaz. vol. 170; p. 239.
Columbia Ribbon & Carbon Manufacturing Company, New York, N. Y. Carbon-paper and type-writer ribbons. No. 83,818; Oct. 17; Gaz. vol. 171; p. 739.
Columbia Type Writer Manufacturing Company, The, New York, N. Y. Type-writing machines. No. 83,637; Oct. 3; Gaz. vol. 171; p. 209.
Columbian Rope Co., Auburn, N. Y. Manila and sisal rope. No. 83,717; Oct. 10; Gaz. vol. 171, p. 477.
Columbus Brass Co., The, Columbus, Ohio. Water-closets. No. 83,144; Aug. 22; Gaz. vol. 169; p. 939.
Columbus Chain Company, The, Columbus, Ohio. Chains of iron. No. 81,856; May 16; Gaz. vol. 166; p. 747.
Commercial Camera Co., Providence, R. I. Cameras and photographic developing apparatus. No. 83,479; Sept. 19; Gaz. vol. 170; p. 699.
Commercial Cars, Ltd., Luton, England, and Kingston, N. Y. Automobiles. No. 81,327; Mar. 28; Gaz. vol. 164; p. 971.
Commonwealth Roofing Company, New York, N. Y. Concrete tiles. No. 81,678; May 2; Gaz. vol. 166; p. 245.
Compagnie Generale de Phonographes, Cinematographes et Appareils de Precision, Paris, France. Talking-machines. No. 84,363; Dec. 5; Gaz. vol. 173; p. 283.
Compañia General de Tabacos de Filipinas, Barcelona, Spain. Cigars. No. 81,128; Mar. 7; Gaz. vol. 164; p. 245.
Concrete Products Company, New York, N. Y. Building tiles and bricks. No. 82,966; Aug. 8; Gaz. vol. 169; p. 445.
Congregation of the Chartreux, Tarragone, Spain. Cordial or liqueur. No. 83,988; Oct. 31; Gaz. vol. 171; p. 1253.
Conklin & Son, E. W., assignor to E. W. Conklin & Son Inc., Binghamton, N. Y. Grass-seed. No. 84,599; Dec. 26; Gaz. vol. 173; p. 1074.
Connecticut Corset Company, Incorporated, Bridgeport, Conn. Corsets. No. 81,788; May 9; Gaz. vol. 166; p. 507.
Connecticut Sumatra Tobacco Company, The, Hartford, Conn. Leaf-tobacco. No. 83,638; Oct. 3; Gaz. vol. 171; p. 209.
Conner & Shallenberger, Bartow, Fla. Oranges, lemons, grape-fruit, tangerines, apples, &c. No. 82,965; Aug. 8; Gaz. vol. 169; p. 445.
Conquest Remedy Company, Cleveland, Ohio. Remedial preparations for superfluous flesh and skin and scalp diseases. No. 83,819; Oct. 17; Gaz. vol. 171; p. 739.
Conrad Seipp Brewing Co., Chicago, Ill. Malt extract. No. 82,473; June 27; Gaz. vol. 167; p. 979.
Conron Bros. Company, New York, N. Y. Butter, eggs, and dressed poultry. No. 84,600; Dec. 26; Gaz. vol. 173; p. 1074.
Consolidated Boat Store Company, The, Cincinnati, Ohio. Coffee. No. 81,956; May 23; Gaz. vol. 166; p. 981.
Consolidated Dental Manufacturing Co., New York, N. Y. Dental alloy, gold and tin foil, molding compound, &c. No. 82,576; July 11; Gaz. vol. 168; p. 519.
Consumers Brewing Company, Philadelphia, Pa. Ale, beer, and porter. No. 82,211; June 13; Gaz. vol. 167; p. 509.
Continental Rubber Company of New York, New York, N. Y. Rubber and rubber gums. No. 80,763; Jan. 31; Gaz. vol. 162; p. 1179.
Conway, Jessie B., Los Angeles, Cal. Medicinal plasters. No. 83,049; Aug. 15; Gaz. vol. 169; p. 697.
Conway Veneered Door and Mantel Company, Milwaukee, Wis. Doors, window-sashes, and wainscoting. No. 82,870; Aug. 1; Gaz. vol. 169; p. 199.
Cookson & Company Limited, Newcastle-upon-Tyne, England. Antimony. No. 83,325; Sept. 5; Gaz. vol. 170; p. 239.
Coop and Company Limited, Wigan, England. Stencils and perforated paper for tailors' use. No. 84,168; Nov. 14; Gaz. vol. 172; p. 545.
Cooper & Roe, Nottingham, England. Knitted undershirts, drawers, union suits, and hosiery. No. 81,857; May 16; Gaz. vol. 166; p. 747.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Compound of corn and refiner's syrup, and jelly. No. 80,630; Jan. 10; Gaz. vol. 162; p. 534.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Compound of corn, molasses, and sorghum syrup. No. 81,202; Mar. 14; Gaz. vol. 164; p. 503.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Compound of corn-syrup and refiners' syrup. No. 81,593; Apr. 25; Gaz. vol. 165; p. 967.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Compound of corn and refiners' syrup. No. 81,858; May 16; Gaz. vol. 166; p. 747.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Brewing material in dry form. No. 82,421; June 27; Gaz. vol. 167; p. 977.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Corn-sugar. No. 82,422; June 27; Gaz. vol. 167; p. 977.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Compound of corn-syrup, molasses, and sorghum. No. 82,967; Aug. 8; Gaz. vol. 169; p. 445.
Corn Products Refining Company, Jersey City, N. J., and New York, N. Y. Edible corn-oil. No. 83,639; Oct. 3; Gaz. vol. 171; p. 209.
Corner & Sons, Jas., Baltimore, Md. Pine-tar. No. 83,898; Oct. 24; Gaz. vol. 171; p. 979.
Corona Chemical Company. (See Bowman, Albert N., assignor.)
Corona Kid Manufacturing Company, Boston, Mass. Leather. No. 82,681; July 18; Gaz. vol. 168; p. 783.
Corsini Parfumery Company Barden & Co., The, Vienna, Austria-Hungary. Perfumery. No. 82,306; June 20; Gaz. vol. 167; p. 757.
Costikyan & Company, New York, N. Y. Rugs. No. 81,859; May 16; Gaz. vol. 166; p. 747.
Cotton Belt Drug Co., Quitman, Ga. A tonic or remedy for chills and fever, colds, and la grippe. No. 82,055; May 30; Gaz. vol. 166; p. 1277.
Courtade, Evariste, New York, N. Y. Medicinal wine containing quinin. No. 84,466; Dec. 19; Gaz. vol. 173; p. 857.
Cover & Sons, F. P., Andrews, N. C. Sole-leather. No. 83,989; Oct. 31; Gaz. vol. 171; p. 1253.
Covert Mfg. Co., Watervliet, N. Y. Sisal rope. No. 84,601; Dec. 26; Gaz. vol. 173; p. 1074.
Covington & Co., J. Y., Monroe, La. Straight whisky. No. 81,860; May 16; Gaz. vol. 166; p. 747.
Craft, George W., Newcastle, Va. Hair-tonic. No. 84,082; Nov. 7; Gaz. vol. 172; p. 255.
Craigellachie-Glenlivet Distillery Co. Limited, Glasgow, Scotland. Blended whisky. No. 82,056; May 30; Gaz. vol. 166; p. 1277.
Craigellachie-Glenlivet Distillery Co. Limited, Glasgow, Scotland. Whisky. No. 82,499; July 4; Gaz. vol. 168; p. 245.
Crane, Clarence A., Warren, Ohio. Candy. No. 82,682; July 18; Gaz. vol. 168; p. 783.
Crane-Hawley Company, Cincinnati, Ohio. Plumbers' solder. No. 82,424; June 27; Gaz. vol. 167; p. 978.
Crane & Theurer, Newark, N. J. Sautoires, bracelets, pins, crosses, &c. No. 82,307; June 20; Gaz. vol. 167; p. 757.
Crane, Z. & W. M., Dalton, Mass. Writing-paper and envelops. Nos. 81,957–62; May 23; Gaz. vol. 166; p. 981.
Crane, Z. & W. M., Dalton, Mass. Writing-paper and envelops. No. 83,050; Aug. 15; Gaz. vol. 169; p. 697.
Craven, Elmer H., Grand Junction, Colo. Fresh apples and pears. No. 84,467; Dec. 19; Gaz. vol. 173; p. 857.

Alphabetical list of registrants of trade-marks—Continued.

Cresap, Philip P., New Orleans, La. Certain medicinal preparation. No. 83,899; Oct. 24; Gaz. vol. 171; p. 979.
Cresaseptic Company, The, Philadelphia, Pa. Liquid disinfectant and deodorizer. No. 83,480; Sept. 19; Gaz. vol. 170; p. 699.
Crescent Belt Fastener Company, New York, N. Y. Fasteners, plates, clamps, &c., for machinery belting. No. 82,212; June 13; Gaz. vol. 167; p. 509.
Crocker-Wheeler Company, Ampere, N. J. Electric transformers. No. 80,513; Jan. 3; Gaz. vol. 162; p. 265.
Crompton, Charles, Lynn, Mass. Remedies for coughs. No. 81,255; Mar. 21; Gaz. vol. 164; p. 735.
Crook, James W., Baltimore, Md. Certain foods. No. 81,508; Apr. 18; Gaz. vol. 165; p. 725.
Crosby Chemical Co., The, Bridgeport, Conn. Tooth-powders and mouth-washes. No. 83,820; Oct. 17; Gaz. vol. 171; p. 739.
Crosby Roller Milling Company, Topeka, Kans. Wheat-flour. No. 81,054; Feb. 28; Gaz. vol. 163; p. 973.
Crouch & Plassmann, Bridgeport, Conn. Bread. No. 84,083; Nov. 7; Gaz. vol. 172; p. 255.
Crown Chocolate Co., McKeesport, Pa. Candies, chocolates, and sweetened popcorn. No. 80,645; Jan. 17; Gaz. vol. 162; p. 779.
Crown-Columbia Pulp & Paper Co., San Francisco, Cal. Paper bags. No. 80,831; Feb. 7; Gaz. vol. 163; p. 227.
Crown-Columbia Pulp & Paper Company, San Francisco, Cal. Paper bags. No. 82,577; July 11; Gaz. vol. 168; p. 519.
Crown-Columbia Pulp and Paper Company, San Francisco, Cal. Paper bags. Nos. 83,225–32; Aug. 29; Gaz. vol. 169; pp. 1179–80.
Crown-Columbia Pulp and Paper Company, San Francisco, Cal. Paper bags. No. 84,602; Dec. 26; Gaz. vol. 173; p. 1074.
Crown Cork & Seal Company, The, Baltimore, Md. Metallic caps for bottles, &c. No. 83,395; Sept. 12; Gaz. vol. 170; p. 477.
Crown Corset Company, The, New York, N. Y. Corsets, corset-waists, brassières, and underwaists. No. 81,594; Apr. 25; Gaz. vol. 165; p. 968.
Crown Embroidery Works, New York, N. Y. Coats, suits, capes, and dresses. No. 82,764; July 25; Gaz. vol. 168; p. 1027.
Crown Gas Light Co., New York, N. Y. Incandescent gas-lamps. No. 82,869; Aug. 1; Gaz. vol. 169; p. 199.
Crucial Fire Brick Company, The, Rome, Ga. Bricks. No. 82,871; Aug. 1; Gaz. vol. 169; p. 199.
Cruse & Fils Freres, Bordeaux, France. Clarets and sauternes. No. 82,872; Aug. 1; Gaz. vol. 169; p. 199.
Cruse & Fils Freres, Bordeaux, France. Clarets. No. 82,873; Aug. 1; Gaz. vol. 169; p. 199.
Crystal Gelatine Company, Boston, Mass. Coffee-settler. No. 83,640; Oct. 3; Gaz. vol. 171; p. 209.
Crystal Gelatine Company, Boston, Mass. Gelatin. No. 84,603; Dec. 26; Gaz. vol. 173; p. 1074.
Cuba Fruit Juice Company, New Orleans, La. Beverage of pineapple-juice. No. 84,170; Nov. 14; Gaz. vol. 172; p. 545.
Cuesta, Rey & Co., Tampa, Fla. Cigars. No. 80,803; Jan. 31; Gaz. vol. 162; p. 1180.
Cupersmith, Nathan, Philadelphia, Pa. Certain heating apparatus and parts thereof. No. 81,437; Apr. 11; Gaz. vol. 165; p. 469.
Curapiel Company, New York, N. Y. Remedies for skin diseases. No. 80,646; Jan. 17; Gaz. vol. 162; p. 779.
Curry, Sylvester B., Cincinnati, Ohio. Cough-drops. No. 80,710; Jan. 24; Gaz. vol. 162; p. 995.
Curtain Supply Company, Newark, N. J., and Chicago, Ill. Curtain-rollers. No. 81,679; May 2; Gaz. vol. 166; p. 245.
Curtis Publishing Company, Philadelphia, Pa. Weekly magazine. No. 81,055; Feb. 28; Gaz. vol. 163; p. 973.
Cushion Heel Shoe Company, Fort Wayne, Ind. Leather shoes. No. 81,680; May 2; Gaz. vol. 166; p. 245.
Cusimano & Co., A., New Orleans, La., and Palermo, Italy. Tomato-paste. No. 81,129; Mar. 7; Gaz. vol. 164; p. 245.
Cusimano & Co., A., New Orleans, La. Tomato paste. No. 82,213; June 13; Gaz. vol. 167; p. 509.
Cyclone Vacuum Cleaner Co., The, Bradford, Pa. Vacuum-cleaners. No. 82,308; June 20; Gaz. vol. 167; p. 757.
D. Weeks & Company, Des Moines, Iowa. Certain named remedies and talcum powder. No. 82,484; June 27; Gaz. vol. 167; p. 979.
D. Weeks & Company, Des Moines, Iowa. Remedies for diseases of the rectum. No. 82,665; July 11; Gaz. vol. 168; p. 522.
D'Or Company, The, Scranton, Pa. Facial cream. No. 83,178; Aug. 22; Gaz. vol. 169; p. 940.
Daimler-Motoren-Gesellschaft, Untertürkheim, near Stuttgart, Germany. Electric apparatus, machines, and supplies. No. 83,233; Aug. 29; Gaz. vol. 169; p. 1180.
Daisy Manufacturing Co., Plymouth, Mich. Air-rifles. No. 82,309; June 20; Gaz. vol. 167; p. 757.
Daisy Roller Mills, Milwaukee, Wis. Wheat-flour. No. 82,426; June 27; Gaz. vol. 167; p. 978.
Daland & Company, New York, N. Y. Scouring and polishing powder. No. 81,681; May 2; Gaz. vol. 166; p. 245.
Daland & Company, New York, N. Y. Scouring and polishing soap. No. 83,051; Aug. 15; Gaz. vol. 169; p. 697.
Damcke & Son, Carl, New York, N. Y. Starch polish. No. 80,711; Jan. 24; Gaz. vol. 162; p. 995.
Dametz, Max, Zeitz, Germany. Sticky fly-paper, &c. No. 82,139; June 6; Gaz. vol. 167; p. 237.
"Dan" Patent Crown Cork Syndicate, The, Limited, London, England. Metal stoppers for closing and sealing bottles. No. 84,172; Nov. 14; Gaz. vol. 172; p. 545.
Daniel, Charles A., Philadelphia, Pa. Rubber belting. No. 81,130; Mar. 7; Gaz. vol. 164; p. 245.
Daniel, Charles A., Philadelphia, Pa. Lubricated textiles for rod and valve packing. No. 81,682; May 2; Gaz. vol. 166; p. 245.
Daniel Green Felt Shoe Company, New York and Dolgeville, N. Y. Leather shoes and slippers. No. 84,315; Nov. 28; Gaz. vol. 172; p. 1085.
Daniel Stewart Co., Indianapolis, Ind. Certain toilet preparations, medicines, and insecticides. No. 82,652; July 11; Gaz. vol. 168; p. 522.
Daniels, Julian C., Attleboro, Mass. Lockets. No. 84,171; Nov. 14; Gaz. vol. 172; p. 545.
Darling Pump & Manfg. Co. (Limited), The, Williamsport, Pa. Pumps and parts of same. Nos. 81,963–4; May 23; Gaz. vol. 166; p. 981.
Dart Tobacco Company, Richmond, Va. Leaf-tobacco. No. 82,500; July 4; Gaz. vol. 168; p. 245.
Dauler, Harvey N., Pittsburg, Pa. Gasolene and volatile combustible liquids. No. 83,559; Sept. 26; Gaz. vol. 170; p. 923.
Daum Co., A. F., Pittsburg, Pa. Fuses and electrical devices. No. 83,052; Aug. 15; Gaz. vol. 169; p. 697.
David B. Levy, Inc., New York, N. Y. Anesthetics. No. 83,657; Oct. 3; Gaz. vol. 171; p. 210.
David Bernhardt Paint Company, Ltd., New Orleans, La. Varnishes and mixed paint. No. 82,200; June 13; Gaz. vol. 167; p. 509.
Daviess County Distilling Co., Owensboro, Ky. Whisky. No. 80,765; Jan. 31; Gaz. vol. 162; p. 1179.
Davis, Arthur L., Buffalo, N. Y. Blood and nerve tonic. No. 82,578; July 11; Gaz. vol. 168; p. 520.
Davis Bros., San Francisco, Cal. Certain clothing. No. 82,874; Aug. 1; Gaz. vol. 169; p. 199.
Davis, David, New York, N. Y. Chamois. No. 83,396; Sept. 12; Gaz. vol. 170; p. 477.
Davis, David, New York, N. Y. Sponges. No. 83,560; Sept. 26; Gaz. vol. 170; p. 923.
Davis & Davis, Houston, Tex. Medicinal suppository. No. 80,766; Jan. 31; Gaz. vol. 162; p. 1179.
Davis, Harry G., Dover, N. H. Cream for headache, earache, burns, croup, &c. No. 82,765; July 25; Gaz. vol. 168; p. 1027.
Davis, Herman, New Orleans, La. Trunks. No. 81,683; May 2; Gaz. vol. 166; p. 245.
Davis, John E., St. Louis, Mo. Waterproof paint. No. 83,145; Aug. 22; Gaz. vol. 169; p. 939.
Davis & Lawrence Co., New York, N. Y. Remedy for coughs and colds. No. 82,214; June 13; Gaz. vol. 167; p. 509.
Davis Milling Company, The, St. Joseph, Mo. Wheat-flour. No. 83,053; Aug. 15; Gaz. vol. 169; p. 697.
Davis Milling Company, The, St. Joseph, Mo. Self-rising flour. No. 83,966; Oct. 24; Gaz. vol. 171; p. 981.
Davis, Samuel P., Little Rock, Ark. Stock food. No. 83,991; Oct. 31; Gaz. vol. 171; p. 1253.
Daydark Specialty Company, St. Louis, Mo. Cameras. No. 82,215; June 13; Gaz. vol. 167; p. 509.
Dayton Dry Goods Co., Minneapolis, Minn. Hosiery, undershirts, drawers, union suits, and tights. No. 80,897; Feb. 14; Gaz. vol. 163; p. 477.
De Courlandon, Alma, New York, N. Y. Hair-tonic and dandruff remedy. No. 81,595; Apr. 25; Gaz. vol. 165; p. 968.
De Forest, Harry W., St. John, New Brunswick, Canada, and Boston, Mass. Tea. No. 80,834; Feb. 7; Gaz. vol. 163; p. 227.
De Moll & Co., Otto J., Washington, D. C. Self-playing pianos. No. 82,969; Aug. 8; Gaz. vol. 169; p. 445.
De Ricqlès et Cie., St. Ouen, Seine, France. Spirits of peppermint. No. 83,514; Sept. 19; Gaz. vol. 170; p. 700.
De Rose, Joseph, Paterson, N. J. Cellar-door hinges. No. 83,055; Aug. 15; Gaz. vol. 169; p. 697.
De Vasher Manufacturing and Supply Company, Kansas City, Mo. Laundry washing-machines. No. 81,790; May 9; Gaz. vol. 166; p. 507.
De Véze, William L., New York, N. Y. Belts for personal wear. No. 81,791; May 9; Gaz. vol. 166; p. 507.
De Vilbiss Manufacturing Company, The, Toledo, Ohio. Powder-blowers, atomizers, and nebulizers. No. 82,875; Aug. 1; Gaz. vol. 169; p. 199.
De Witt-Roberts Co., The, Cleveland, Ohio. Tea and blended coffee. No. 82,767; July 25; Gaz. vol. 168; p. 1027.
De Young, Bastian, Los Angeles, Cal. Tents and awnings. No. 81,132; Mar. 7; Gaz. vol. 164; p. 245.
Deacon & Lambert, St. Louis, Mo. Pigments. No. 84,468; Dec. 19; Gaz. vol. 173; p. 857.
Deacon, Sidney R., Los Angeles, Cal. Liniment. No. 82,579; July 11; Gaz. vol. 168; p. 520.
Deaderick, Thomas, Nashville, Tenn. Vacuum-cleaner. No. 82,580; July 11; Gaz. vol. 168; p. 520.

Alphabetical list of registrants of trade-marks—Continued.

Deagan, John C., Chicago, Ill. Musical bells. Nos. 80,898–9; Feb. 14; Gaz. vol. 163; p. 477.
Dean & Barry Company, The, Columbus, Ohio. Finish for walls and ceilings. No. 82,581; July 11; Gaz. vol. 168; p. 520.
Dean & Barry Company, The, Columbus, Ohio. Floor-finish. No. 82,766; July 25; Gaz. vol. 168; p. 1027.
Dean & Co. Limited, Ann Arbor, Mich. Certain food. No. 84,604; Dec. 26; Gaz. vol. 173; p. 1074.
Dean Electric Company, The, Elyria, Ohio. Electric signal-horns. No. 82,501; July 4; Gaz. vol. 168; p. 245.
Dean Heat Distributor & Specialty Co., Newark, N. J., and New York, N. Y. Heat-distributers for gas-ranges. No. 81,684; May 2; Gaz. vol. 166; p. 245.
Dean-Lilly Coffee & Spice Co., The, Memphis, Tenn. Tea. No. 84,084; Nov. 7; Gaz. vol. 172; p. 255.
Dean's Rag Book Company, Limited, London, England. Books made of textile fabrics. No. 83,146; Aug. 22; Gaz. vol. 169; p. 939.
Decker, William M., Buffalo, N. Y. Antiseptic lotions. No. 83,481; Sept. 19; Gaz. vol. 170; p. 699.
Deco-Veneer Company, Indianapolis, Ind. Sheet material for the interior finish of buildings. No. 81,965; May 23; Gaz. vol. 166; p. 981.
Deer-Lax Chemical Company, New York, N. Y. Medicated tablets, wafers, &c. No. 83,054; Aug. 15; Gaz. vol. 169; p. 697.
Deforest Sheet & Tinplate Co., The, Niles, Ohio. Black and galvanized sheet-steel. No. 84,215; Nov. 21; Gaz. vol. 172; p. 817.
Deisher, Henry K., Kutztown, Pa. Underskirts. No. 83,327; Sept. 5; Gaz. vol. 170; p. 239.
Delp Grain Co., E. E., Philadelphia, Pa., and Bourbon, Ind. Horse feed. No. 83,147; Aug. 22; Gaz. vol. 169; p. 939.
Deming & Gould Co., Chicago, Ill. Canned salmon. No. 81,056; Feb. 28; Gaz. vol. 163; p. 973.
Deming & Gould Company, Chicago, Ill. Canned salmon. No. 81,256; Mar. 21; Gaz. vol. 164; p. 735.
Dempsey, Senterlow, Kansas City, Mo. Candy. No. 83,561; Sept. 26; Gaz. vol. 170; p. 923.
Dennie, Frank B., Minneapolis, Minn. Antiseptic healing-lotion. No. 81,966; May 23; Gaz. vol. 166; p. 981.
Denny, Hilborn & Rosenbach, (The White Company,) Philadelphia, Pa. Certain painters' materials. No. 80,581; Jan. 10; Gaz. vol. 162; p. 533.
Densford and Co., Harry H., Jeffersonville, Ind. Remedy for dandruff. No. 83,992; Oct. 31; Gaz. vol. 171; p. 1253.
Dent, Allcroft & Co., London, England. Gloves. No. 80,990; Feb. 21; Gaz. vol. 163; p. 723.
Denver Mud Chemical Company, Phoenix, Ariz. Anti-phlogistic compound. No. 83,718; Oct. 10; Gaz. vol. 171; p. 477.
Desmarais, Joseph H., Bristol, Conn. Remedies for certain diseases. No. 81,131; Mar. 7; Gaz. vol. 164; p. 245.
Detmer Woolen Company, New York, N. Y.; Chicago, Ill.; Kansas City, Mo.; Los Angeles, Cal., and Seattle, Wash. Woolen piece goods. No. 81,967; May 23; Gaz. vol. 166; p. 981.
Detroit Publishing Company, Detroit, Mich. Printed books, prints, photographs, and lithographs. No. 84,364; Dec. 5; Gaz. vol. 173; p. 283.
Deutsche Gasgluehlicht Aktiengesellschaft (Auergesellschaft), Berlin, Germany. Gas and liquid fuel lamps and mantles therefor. No. 84,085; Nov. 7; Gaz. vol. 172; p. 255.
Deutsche Waffen- und Munitionsfabriken, Berlin, Germany. Certain machinery and parts thereof. No. 84,381; Dec. 12; Gaz. vol. 173; p. 579.
Di Donato, Mario, New York, N. Y. Medicinal blood-tonic. No. 82,586; July 11; Gaz. vol. 168; p. 520.
Di Ielsi, Michael, Camden, N. J. Medicine for affections of the throat. No. 84,217; Nov. 21; Gaz. vol. 172; p. 817.
Diagraph Company, The, St. Louis, Mo. Stencil-cutting machine. No. 84,469; Dec. 19; Gaz. vol. 173; p. 857.
Diamond Anti-Friction Metal Company, Oak Park, Ill. Bars, pigs, or ingots of Babbitt or antifriction metal. No. 84,086; Nov. 7; Gaz. vol. 172; p. 255.
Diamond Creamery Co., Massena, N. Y. Butter. No. 82,768; July 25; Gaz. vol. 168; p. 1027.
Diamond Creamery Co., Massena, N. Y. Butter. No. 84,216; Nov. 21; Gaz. vol. 172; p. 817.
Diamond Creamery Co., Massena, N. Y. Butter. No. 84,605; Dec. 26; Gaz. vol. 173; p. 1074.
Diamond Rubber Co., The, Akron, Ohio. Insulated wires and cables. No. 81,329; Mar. 28; Gaz. vol. 164; p. 971.
Diamond Steel Truck Co., Grand Rapids, Mich. Furniture-casters. No. 80,582; Jan. 10; Gaz. vol. 162; p. 533.
Diana Company, New York, N. Y. Menthol-salt spirit. No. 84,606; Dec. 26; Gaz. vol. 173; p. 1074.
Dick, Christian, Riverside, N. J. Hosiery. No. 82,058; May 30; Gaz. vol. 166; p. 1277.
Dieges & Clust, New York, N. Y. Medals, badges, charms, and rings. No. 80,583; Jan. 10; Gaz. vol. 162; p. 533.
Diez, Hattie, New Orleans, La. Preparation for exterminating ants. No. 81,793; May 9; Gaz. vol. 166; p. 507.
Dilling & Company, Indianapolis, Ind. Chocolates. No. 81,794; May 9; Gaz. vol. 166; p. 507.
Dilling & Company, Indianapolis, Ind. Cough-drops. No. 82,582; July 11; Gaz. vol. 168; p. 520.
Dilling & Company, Indianapolis, Ind. Cream candy. No. 82,583; July 11; Gaz. vol. 168; p. 520.
Dilling & Company, Indianapolis, Ind. Milk-chocolate. No. 83,967; Oct. 24; Gaz. vol. 171; p. 981.
Dilling & Company, Indianapolis, Ind. Candy kisses. No. 83,993; Oct. 31; Gaz. vol. 171; p. 1253.
Distillers Direct Supply Store, Fort Wayne, Ind. Straight whisky. No. 82,059; May 30; Gaz. vol. 166; p. 1277.
District of Columbia Paper Manufacturing Company, Alexandria, Va., and Washington, D. C. Paper. No. 80,767; Jan. 31; Gaz. vol. 162; p. 1179.
Dixie Syrup Company, The, Baltimore, Md. Compound of corn and sugar syrup. No. 82,584; July 11; Gaz. vol. 168; p. 520.
Dodez, Edward W., Fort Wayne, Ind. Medicated detergent for cleansing the teeth. No. 80,992; Feb. 21; Gaz. vol. 163; p. 723.
Dodge, Harold C., San Francisco, Cal. Hose-racks. No. 81,133; Mar. 7; Gaz. vol. 164; p. 245.
Dodge Manufacturing Company, Mishawaka, Ind. Rope. No. 80,712; Jan. 24; Gaz. vol. 162; p. 995.
Dodson, William T., Chicago, Ill. Certain foods. No. 81,795; May 9; Gaz. vol. 166; p. 507.
Doell, Peter P., New York, N. Y. Laxative tablets. No. 82,585; July 11; Gaz. vol. 168; p. 520.
Dohner, Joseph A.; G. O. Rains, guardian, Beatrice, Nebr. Cigars. No. 83,626; Sept. 26; Gaz. vol. 170; p. 925.
Domestic Finish Starch Co., Kansas City, Mo. Laundry starch. No. 81,685; May 2; Gaz. vol. 166; p. 245.
Domestic Mills Paper Co., New York, N. Y. Paper, envelops, tablets, and blank books. No. 83,056; Aug. 15; Gaz. vol. 169; p. 697.
Donaldson, William M., Harrisburg, Pa. Writing and printing paper. No. 81,438; Apr. 11; Gaz. vol. 165; p. 469.
Dongian, Giragos, Philadelphia, Pa. Hair-tonics. Nos. 82,769–70; July 25; Gaz. vol. 168; pp. 1027–8.
Dorée, H. J., London, England. Toilet and shaving soaps. No. 83,234; Aug. 29; Gaz. vol. 169; p. 1180.
Dorne, George, Newport, Ky. Chewing-gum. No. 81,861; May 16; Gaz. vol. 166; p. 747.
Douthitt, Jas. W., Bedford, Ind. Remedy for certain named diseases. No. 80,993; Feb. 21; Gaz. vol. 163; p. 723.
Dr. A. Gude & Co. Gesellschaft mit beschrankter Haftung, Leipzig, Germany. Medicinal preparation. No. 84,094; Nov. 7; Gaz. vol. 172; p. 255.
Dr. Alexander & Posnansky, Chemische Fabrik, Coepenick, near Berlin, Germany. Erasers. No. 82,853; Aug. 1; Gaz. vol. 169; p. 199.
Dr. med. Karl Hartmann G. m. b. H., Berlin, Germany. Neurotics and remedial preparations for nervous diseases. No. 83,906; Oct. 24; Gaz. vol. 171; p. 979.
Dreadnought Flooring Company. (See Nilsson, Axel W., assignor.)
Dreyfuss Export Co., New York, N. Y. Leather shoes, hosiery, and outer shirts. No. 81,968; May 23; Gaz. vol. 166; p. 981.
Driscol, Church & Hall, New Bedford, Mass. Certain foods. No. 82,502; July 4; Gaz. vol. 168; p. 245.
Driver-Harris Wire Co., Harrison, N. J. Metal plates, strips, and uninsulated wire. No. 81,796; May 9; Gaz. vol. 166; p. 507.
Droste & Snyder, Newark, N. J. Butter, cheese, and eggs. No. 84,218; Nov. 21; Gaz. vol. 172; p. 817.
Druid Oak Belting Company, The, Incorporated, Baltimore, Md. Leather machine-belting. Nos. 82,683–5; July 18; Gaz. vol. 168; p. 783.
Dryfoos, Milton M., New York, N. Y. Ladies' underskirts and petticoats. No. 83,994; Oct. 31; Gaz. vol. 171; p. 1253.
Duael, Elsa, New York, N. Y. Skin-lotions. No. 80,585; Jan. 10; Gaz. vol. 162; p. 533.
Dubied & Cie., Edouard, Couvet, Switzerland. Desks. No. 84,610; Dec. 26; Gaz. vol. 173; p. 1074.
Duff Manfg. Co., The, Pittsburg, Pa. Lifting-jacks. No. 82,310; June 20; Gaz. vol. 167; p. 758.
Dunbars, Lopez & Dukate Co., New Orleans, La. Compound of cane and corn syrup. Nos. 80,900–1; Feb. 14; Gaz. vol. 163; p. 477.
Dunbars, Lopez & Dukate Co., New Orleans, La. Compound of corn-syrup and molasses. Nos. 80,902–3; Feb. 14; Gaz. vol. 163; p. 477.
Dunlap & Co., New York, N. Y. Certain headwear. No. 83,148; Aug. 22; Gaz. vol. 169; p. 939.
Dunn, Christine, New York, N. Y. Ointment. No. 81,862; May 16; Gaz. vol. 166; p. 747.
Duplex Envelope & Printing Co. Inc., The, Richmond, Va. Envelops. No. 82,970; Aug. 8; Gaz. vol. 169; p. 445.
Duplex Mill & Mfg. Co., The, Springfield, Ohio. Grinding-mills. No. 83,719; Oct. 10; Gaz. vol. 171; p. 477.
Duryea Manufacturing Company, Jersey City, N. J. Lubricating-oil. No. 83,235; Aug. 29; Gaz. vol. 169; p. 1180.
Dusenberg, Theodore C., Philadelphia, Pa. Candy. No. 81,206; Mar. 14; Gaz. vol. 164; p. 503.
Dux Emollient Company, Essex, Conn. Salves, lotions, massage-cream, &c. No. 84,382; Dec. 12; Gaz. vol. 173; p. 579.

Alphabetical list of registrants of trade-marks—Continued.

Dux Toy Company, Concord, N. H. Wooden toys. No. 81,257; Mar. 21; Gaz. vol. 164; p. 735.
Dyer, William H., Vincennes, Ind. Canned pork and beans. No. 81,058; Feb. 28; Gaz. vol. 163; p. 973.
E. Goldman & Co. Inc., Chicago, Ill. Filter-pulp. No. 83,729; Oct. 10; Gaz. vol. 171; p. 477.
E. A. Kline & Co., Cleveland, Ohio. Cigars. No. 81,810; May 9; Gaz. vol. 166; p. 508.
E. A. White, Limited, Paddock Wood, England. Insecticide. No. 80,964; Feb. 14; Gaz. vol. 163; p. 479.
E. A. White, Limited, Paddock Wood, England. Syringes for spraying trees and plants. No. 81,238; Mar. 14; Gaz. vol. 164; p. 504.
E. B. Millar & Co., Chicago, Ill. Coffee. No. 80,667; Jan. 17; Gaz. vol. 162; p. 780.
E. B. Millar & Co., Chicago, Ill. Coffee. No. 81,402; Apr. 4; Gaz. vol. 165; p. 237.
E. B. I. Medicine Co., Spokane, Wash. Remedy for diseases of the eyes. No. 84,219; Nov. 21; Gaz. vol. 172; p. 817.
E. C. Atkins & Company, Indianapolis, Ind.; New York, N. Y.; Memphis, Tenn.; Atlanta, Ga.; Minneapolis, Minn.; Portland, Oreg.; Seattle, Wash.; San Francisco, Cal.; Chicago, Ill., and Toronto, Ontario, Canada. Saws. No. 82,950; Aug. 8; Gaz. vol. 169; p. 445.
E. C. Atkins & Company, Indianapolis, Ind.; Atlanta, Ga.; Chicago, Ill.; Memphis, Tenn.; Minneapolis, Minn.; New Orleans, La.; New York, N. Y.; Portland, Oreg.; San Francisco, Cal.; Seattle, Wash., and Hamilton, Ontario, Canada. Saws. No. 82,951; Aug. 8; Gaz. vol. 169; p. 445.
E. F. Houghton & Company, Philadelphia, Pa. Chemical compound for case-hardening iron and steel. Nos. 84,233–4; Nov. 21; Gaz. vol. 172; pp. 817–18.
E. H. Gato Cigar Company, Key West, Fla. Cigars. No. 80,998; Feb. 21; Gaz. vol. 163; p. 724.
E. H. Gato Cigar Company, Key West, Fla. Cigars. No. 81,516; Apr. 18; Gaz. vol. 165; p. 725.
E. H. Gato Cigar Company, Key West, Fla. Cigars. No. 82,320; June 20; Gaz. vol. 167; p. 758.
E. I. du Pont de Nemours Powder Co., Hoboken, N. J., and Wilmington, Del. Smokeless powder. No. 83,435; Sept. 12; Gaz. vol. 170; p. 478.
E. I. du Pont de Nemours Powder Company, Hoboken, N. J., and Wilmington, Del. Mining, blasting, and safety fuse. No. 83,821; Oct. 17; Gaz. vol. 171; p. 739.
E. I. du Pont de Nemours Powder Company, Hoboken, N. J., and Wilmington, Del. Mining, blasting, and safety fuse. No. 83,995; Oct. 31; Gaz. vol. 171; p. 1253.
E. I. du Pont de Nemours Powder Company, Hoboken, N. J., and Wilmington, Del. Imitation leather. No. 84,611; Dec. 26; Gaz. vol. 173; p. 1074.
E. I. Horsman Co., New York, N. Y. Dolls. No. 81,711; May 2; Gaz. vol. 166; p. 246.
E. K. Pond Packing Company, Chicago, Ill. Certain foods. No. 81,169; Mar. 7; Gaz. vol. 164; p. 246.
E. L. Powers Co., New York, N. Y. Monthly publication. No. 80,617; Jan. 10; Gaz. vol. 162; p. 534.
E. M. Bowden's Patents Syndicate Ltd., London, England. Various parts of vehicles. No. 83,215; Aug. 29; Gaz. vol. 169; p. 1179.
E. M. Chadbourne Company, San Francisco, Cal. Paving material. No. 82,962; Aug. 8; Gaz. vol. 169; p. 445.
E. M. Hulse Company, The, Columbus, Ohio. Davenport-beds. No. 80,924; Feb. 14; Gaz. vol. 163; p. 478.
E. W. Conklin & Son Inc. (See Conklin & Son, E. W., assignor.)
Eagle Company, The, Newark, N. J. Internal-combustion engines. No. 83,482; Sept. 19; Gaz. vol. 170; p. 699.
Eagle Lye Works, Milwaukee, Wis. Lye. No. 81,384; Apr. 4; Gaz. vol. 165; p. 237.
Eagle Manufacturing Company, The, Cincinnati, Ohio. Automobile tire-pumps and lifting-jacks. No. 81,059; Feb. 28; Gaz. vol. 163; p. 973.
Eagle Pencil Company, New York, N. Y. Lead-pencils. No. 80,768; Jan. 31; Gaz. vol. 162; p. 1179.
Eagle Pencil Company, New York, N. Y. Pencils, pens, and penholders. No. 83,822; Oct. 17; Gaz. vol. 171; p. 739.
Eagle Pencil Company, New York, N. Y. Automatic knives. No. 84,220; Nov. 21; Gaz. vol. 172; p. 817.
Eagle Pencil Company, New York, N. Y. Metallic pens. No. 84,365; Dec. 5; Gaz. vol. 173; p. 283.
Eagle White Lead Company, Cincinnati, Ohio. Babbitt metal. No. 82,217; June 13; Gaz. vol. 167; p. 509.
Eagle White Lead Company, The, Cincinnati, Ohio. Babbitt metal. Nos. 84,612–13; Dec. 26; Gaz. vol. 173; p. 1074.
Earnest, David C., Dallas, Tex. Grate-bars. No. 84,221; Nov. 21; Gaz. vol. 172; p. 817.
Eastern Electric Lamp Company, Boston, Mass. Incandescent electric lamps. No. 82,503; July 4; Gaz. vol. 168; p. 245.
Eastman, Clyde J., Los Angeles, Cal. Agricultural cable power-wagon. No. 83,720; Oct. 10; Gaz. vol. 171; p. 477.
Eastman Kodak Co., Rochester, N. Y. Photographic plates. No. 83,328; Sept. 5; Gaz. vol. 170; p. 239.
Eaton Milling & Elevator Co., The, Eaton, Colo. Wheat-flour. No. 82,771; July 25; Gaz. vol. 168; p. 1028.
Eberhardt, Max, Munich, Germany. Fire-extinguishing compounds, powder, liquids, and grenades. No. 80,516; Jan. 3; Gaz. vol. 162; p. 265.
Eberson Paint Co., The, St. Louis, Mo. Varnish-stain. No. 80,517; Jan. 3; Gaz. vol. 162; p. 265.
Eck & Reimer, Detroit, Mich. Moth-destroyer and disinfecting compound. No. 84,471; Dec. 19; Gaz. vol. 173; p. 857.
Eclipse Cement & Blacking Company, Philadelphia, Pa. Blacking, dressing, and polish for shoes. No. 81,207; Mar. 14; Gaz. vol. 164; p. 503.
Eclipse Stove Co., Mansfield, Ohio. Stoves and ranges. No. 84,614; Dec. 26; Gaz. vol. 173; p. 1074.
Eclipse White Lead and Color Company, New York, N. Y. White lead and pigments, colors, and paints. No. 80,835; Feb. 7; Gaz. vol. 163; p. 227.
Economic Machinery Company, Worcester, Mass. Labeling-machines and parts thereof. No. 83,968; Oct. 24; Gaz. vol. 171; p. 981.
Edgar Allen American Manganese Steel Company, Augusta, Me., and Chicago, Ill. Manganese-steel castings. No. 84,068; Nov. 7; Gaz. vol. 172; p. 255.
Edison Manufacturing Company, West Orange, N. J. Moving-picture-projecting apparatus. No. 81,060; Feb. 28; Gaz. vol. 163; p. 973.
Edison Storage Battery Company, West Orange, N. J. Storage batteries, parts thereof, &c. No. 82,971; Aug. 8; Gaz. vol. 169; p. 445.
Edmonds, Frank H., Washington, D. C. Eyeglasses, spectacles, field-glasses, &c. No. 81,258; Mar. 21; Gaz. vol. 164; p. 735.
Edmunds & Jones Mfg. Co., Detroit, Mich. Automobile and motor-vehicle lamps. No. 81,511; Apr. 18; Gaz. vol. 165; p. 725.
Educational Tablet Co., Benton Harbor, Mich. Writing-tablets, composition-books, and writing-paper. No. 82,311; June 20; Gaz. vol. 167; p. 758.
Edward Westen Tea & Spice Company, St. Louis, Mo. Certain foods. No. 81,934; May 16; Gaz. vol. 166; p. 749.
Edwards & Co. Inc., New York, N. Y. Certain electrical goods. Nos. 81,686–7; May 2; Gaz. vol. 166; pp. 245–6.
Edwards & Loomis Co., Chicago, Ill. Poultry feed. No. 81,439; Apr. 11; Gaz. vol. 165; p. 469.
Edwards & Loomis Co., Chicago, Ill. Horse and cattle feed. No. 81,440; Apr. 11; Gaz. vol. 165; p. 469.
Edwards & Loomis Co., Chicago, Ill. Horse feed. No. 81,441; Apr. 11; Gaz. vol. 165; p. 469.
Edwards, William T., Americus, Ga. Cigars, cheroots, and cigarettes. No. 80,713; Jan. 24; Gaz. vol. 162; p. 995.
Edwardsville Milling Company, Edwardsville, Ill. Wheat-flour. No. 81,442; Apr. 11; Gaz. vol. 165; p. 469.
Ehrhart-Conrad Company, Inc., Hanover, Pa. Combination of cane, corn, and sugar syrup. No. 80,518; Jan. 3; Gaz. vol. 162; p. 265.
Einstein, Julius, New York, N. Y. Velvets. No. 82,312; June 20; Gaz. vol. 167; p. 758.
Einstein, Samuel M., Attleboro, Mass. Bracelets, lockets, and swivels. No. 81,597; Apr. 25; Gaz. vol. 165; p. 968.
Einstein, Samuel M., Attleboro, Mass. Bracelets, lockets, and swivels. No. 81,863; May 16; Gag. vol. 166; p. 747.
Eisenberg, Morris, New York, N. Y. Pressed cheese. No. 80,519; Jan. 3; Gaz. vol. 162; p. 265.
Eisenstaedt, Abraham L., New York, N. Y. Cravats and neckties. No. 83,562; Sept. 26; Gaz. vol. 170; p. 923.
El-Oso Asphalt Company, St. Louis, Mo. Asphaltic cement. No. 84,473; Dec. 19; Gaz. vol. 173; p. 857.
Eldridge, Leo F., Mobile, Ala. Certain remedy. No. 81,598; Apr. 25; Gaz. vol. 165; p. 968.
"Electra" Lightning Rod Co., Chicago, IH. Lightning-rods. No. 81,969; May 23; Gaz. vol. 166; p. 981.
Electric Cable Co., The, Bridgeport, Conn. Electrical wires and cables. No. 81,134; Mar. 7; Gaz. vol. 164; p. 245.
Electric Cable Co., The, Bridgeport, Conn. Insulated wires and cables. No. 82,504; July 4; Gaz. vol. 168; p. 245.
Electric Cable Company, The, Bridgeport, Conn. Wires and cables for electrical purposes. No. 81,688; May 2; Gaz. vol. 166; p. 246.
Electric Cleanser Company, Canton, Ohio. Hand-soap and compound for cleaning purposes. No. 84,472; Dec. 19; Gaz. vol. 173; p. 857.
Electric Service Supplies Co., Philadelphia, Pa. Certain electrical apparatus and supplies. No. 80,769; Jan. 31; Gaz. vol. 162; p. 1179.
Electric Specialty Manufacturing Company, Cedar Rapids, Iowa. Inductive fault-finding and measuring apparatus for electric circuits. No. 83,329; Sept. 5; Gaz. vol. 170; p. 239.
Electric Storage Battery Company, The, Philadelphia, Pa. Storage-battery plates. No. 82,219; June 13; Gaz. vol. 167; p. 509.
Electrical Engineers Equipment Company, Chicago, Ill. Electrical equipment. No. 81,797; May 9; Gaz. vol. 166; p. 507.
Electrical Review Publishing Company, New York, N. Y., and Chicago, Ill. Weekly magazine. No. 83,150; Aug. 22; Gaz. vol. 169; p. 940.

Alphabetical list of registrants of trade-marks—Continued.

Eleto Company, New York, N. Y. Toilet preparation for use on the hair. No. 81,385; Apr. 4; Gaz. vol. 165; p. 237.
Elgin National Watch Company, Elgin and Chicago, Ill. Watch-movements. Nos. 82,060–1; May 30; Gaz. vol. 166; p. 1277.
Elgin National Watch Company, Elgin and Chicago, Ill. Watch-mainsprings. No. 82,140; June 6; Gaz. vol. 167; p. 237.
Elgin National Watch Company, Elgin and Chicago, Ill. Watch-movements. No. 82,141; June 6; Gaz. vol. 167; p. 237.
Elgin National Watch Company, Elgin and Chicago, Ill. Watch-movements. No. 82,505; July 4; Gaz. vol. 168; p. 245.
Elgin National Watch Company, Elgin and Chicago, Ill. Watch-movements. No. 82,686; July 18; Gaz. vol. 168; p. 783.
Elgin National Watch Company, Elgin and Chicago, Ill. Watch-movements. No. 82,972; Aug. 8; Gaz. vol. 169; p. 445.
Elk Knitting Mills Company, Philadelphia, Pa. Knitted underwear. No. 82,587; July 11; Gaz. vol. 168; p. 520.
Elk Knitting Mills Company, Philadelphia, Pa. Knitted underwear. No. 83,236; Aug. 29; Gaz. vol. 169; p. 1180.
Elkhart Motor Car Company, Elkhart, Ind. Automobiles. No. 80,586; Jan. 10; Gaz. vol. 162; p. 533.
Elliott Jewelry Company, St. Louis, Mo. Watches. No. 84,173; Nov. 14; Gaz. vol. 172; p. 545.
Ellis, Alfred L., Metuchen, N. J. Preparation for constipation. No. 82,772; July 25; Gaz. vol. 168; p. 1028.
Ellithorp & Sons, E. L., West Pittston, Pa. Knit underwear. No. 82,773; July 25; Gaz. vol. 168; p. 1028.
Ellsworth, William J., Blanton, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. Nos. 81,599–600; Apr. 25; Gaz. vol. 165; p. 968.
Ellsworth, Wm. J., Blanton, Fla. Oranges, lemons, grape-fruit, &c. No. 80,836; Feb. 7; Gaz. vol. 163; p. 227.
Elwako Manufacturing Company, Cleveland, Ohio. Washing compound. No. 83,397; Sept. 12; Gaz. vol. 170; p. 477.
Elwell Rubber Manufacturing Co., Boston, Mass. Rubber heels. No. 81,135; Mar. 7; Gaz. vol. 164; p. 245.
Elwell Rubber Manufacturing Company, Trenton, N. J., and Boston, Mass. Rubber heels. No. 83,721; Oct. 10; Gaz. vol. 171; p. 477.
Elysian Milling Company, Elysian, Minn. Wheat-flour. No. 83,057; Aug. 15; Gaz. vol. 169; p. 697.
Emeralda Packing Co., Emeralda, Fla. Oranges, lemons, tangerines, grape-fruit, and limes. Nos. 81,443–4; Apr. 11; Gaz. vol. 165; p. 469.
Emery Manufacturing Company, Bradford, Pa. Automobile lubricating-oil. No. 82,220; June 13; Gaz. vol. 167; p. 509.
Emery & Marshall, Haverhill, Mass. Leather boots and shoes. No. 80,837; Feb. 7; Gaz. vol. 163; p. 227.
Emil Busch Aktiengesellschaft, Optische Industrie, Rathenow, Germany. Certain scientific apparatus and appliances. No. 81,431; Apr. 11; Gaz. vol. 165; p. 469.
Emil Busch, Aktiengesellschaft Optische Industrie, Rathenow, Germany. Single and double prism telescopes. No. 84,591; Dec. 26; Gaz. vol. 173; p. 1073.
Emmet, Rosina H., Hartford, Conn. Spring and carbonated waters. Nos. 82,774–5; July 25; Gaz. vol. 168; p. 1028.
Empire Bottle & Supply Company, New York, N. Y. Glass bottles. No. 84,383; Dec. 12; Gaz. vol. 173; p. 579.
Empire Dynamite Co., Chicago, Ill. High explosives. No. 83,969; Oct. 24; Gaz. vol. 171; p. 981.
Empire Furniture Mfg. Co., New York, N. Y. Certain furniture. No. 82,062; May 30; Gaz. vol. 166; p. 1277.
Empire Shellac Company, Boston, Mass. Varnishes and varnish-gums. No. 84,087; Nov. 7; Gaz. vol. 172; p. 255.
Emrich, John G., Columbus, Ohio. Stoves and ranges. No. 80,995; Feb. 21; Gaz. vol. 163; p. 723.
Engelsmann, Hermann E., St. Louis, Mo. Lace-leather. No. 80,587; Jan. 10; Gaz. vol. 162; p. 533.
Enterprise Bed Company, Hammond, Ind. Spring beds and mattresses and bed-springs. No. 80,714; Jan. 24; Gaz. vol. 162; p. 995.
Epstein, Albert, Pittburg, Pa. Cigars and stogies. No. 80,771; Jan. 31; Gaz. vol. 162; p. 1179.
Erste Oesterreichische Actien-Gesellschaft zur Erzeugung von Möbeln aus gebogenem Holze, Jacob & Josef Kohn, Vienna, Austria-Hungary, and New York, N. Y. Bent-wood furniture. No. 83,996; Oct. 31; Gaz. vol. 171; p. 1253.
Erwin-Nadal Tobacco Company, Wilson, N. C. Cigarettes. No. 80,647; Jan. 17; Gaz. vol. 162; p. 779.
Eshelman, Frank H., St. Joseph, Mo. Remedy for dandruff and a hair-tonic. No. 83,483; Sept. 19; Gaz. vol. 170; p. 699.
Esperanto Strainer Company, Pittsburg, Pa. Coffee-strainers. No. 81,970; May 23; Gaz. vol. 166; p. 981.
Esperanza Fruit Co., Palatka, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 81,445; Apr. 11; Gaz. vol. 165; p. 469.
Esperanza Fruit Co., Palatka, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 81,512; Apr. 18; Gaz. vol. 165; p. 725.
Esposito, Thomas C., New York, N. Y. Mineral, spring, and aerated water. No. 83,058; Aug. 15; Gaz. vol. 169; p. 697.
Esterbrook Steel Pen Man'f'g. Co., Camden, N. J. Writing-pens. Nos. 81,971–81; May 23; Gaz. vol. 166; p. 982.
Esterbrook Steel Pen Man'f'g. Co., Camden, N. J. Writing-pens. No. 82,687; July 18; Gaz. vol. 168; p. 783.
Esterbrook Steel Pen Man'f'g. Co., Camden, N. J. Writing-pens. No. 83,970; Oct. 24; Gaz. vol. 171; p. 981.
Esterman, Verkamp, Murphy Co., The, Cincinnati, Ohio. Canned vegetables. No. 82,142; June 6; Gaz. vol. 167; p. 237.
Etherton, John C., East St. Louis, Ill. Remedy for eczema, lupus, &c. No. 83,059; Aug. 15; Gaz. vol. 169; p. 697.
Eugene Dietzgen Company, Chicago, Ill. Draftsmen's supplies. No. 81,057; Feb. 28; Gaz. vol. 163; p. 973.
Eureka Fire Hose Manufacturing Co., Jersey City, N. J. Woven linen fabric hose. No. 82,506; July 4; Gaz. vol. 168; p. 245.
Eureka Vibrator Co., Detroit, Mich. Vibratory massage apparatus. No. 82,063; May 30; Gaz. vol. 166; p. 1277.
Eureka Vibrator Co., New York, N. Y. Electric-vibrator massage-machines. No. 83,563; Sept. 26; Gaz. vol. 170; p. 923.
Eureka Water Heater Co., Chicago, Ill. Gas-valves. No. 84,222; Nov. 21; Gaz. vol. 172; p. 817.
Eustis Packing Company, Eustis, Fla. Oranges, lemons, tangerines, grape-fruit, and limes. No. 80,648; Jan. 17; Gaz. vol. 162; p. 779.
Eustis Packing Company, Eustis, Fla. Oranges, lemons, tangerines, grape-fruit, and limes. No. 83,060; Aug. 15; Gaz. vol. 169; p. 697.
Evans & Company, Lockport, N. Y. All-wool batting. No. 81,386; Apr. 4; Gaz. vol. 165; p. 237.
Evans, George W., Aberdeen, Md. Canned tomatoes. No. 82,313; June 20; Gaz. vol. 167; p. 758.
Evans Sons Lescher & Webb Limited, Liverpool, England. Medicated throat-pastils. No. 81,446; Apr. 11; Gaz. vol. 165; p. 469.
Everart, Geo. E., New York, N. Y. Vegetable relishes. No. 81,880; May 16; Gaz. vol. 166; p. 748.
Everhart-Chiles Extract Company, Asheville, N. C., and Atlanta, Ga. Ginger-ale and cola beverage. No. 81,505; Apr. 18; Gaz. vol. 165; p. 725.
Ex Lax Manufacturing Co., New York, N. Y. Liniment. No. 82,427; June 27; Gaz. vol. 167; p. 978.
Ex-Lax Mfg. Co., New York, N. Y. Laxative preparation. No. 83,823; Oct. 17; Gaz. vol. 171; p. 739.
Excello Products Co., Detroit, Mich. Flushing devices for waste-pipes. No. 83,722; Oct. 10; Gaz. vol. 171; p. 477.
Excelsior Candy Co., Cleveland, Ohio. Candies. No. 81,208; Mar. 14; Gaz. vol. 164; p. 503.
Excelsior Knitting Mills, Union, S. C. Hosiery. No. 83,398; Sept. 12; Gaz. vol. 170; p. 477.
Extract Wool and Merino Company, The, Chattanooga, Tenn. Shoddy. No. 83,399; Sept. 12; Gaz. vol. 170; p. 477.
F. Mayer Boot & Shoe Co., Milwaukee, Wis. Leather shoes. No. 81,087; Feb. 28; Gaz. vol. 163; p. 974.
F. Reddaway & Co. Limited, Manchester, England. Driving and carrying belts. No. 84,680; Dec. 26; Gaz. vol. 173; p. 1076.
F. A. Barret Chemical Company, St. Louis, Mo. Remedy for certain diseases. No. 82,198; June 13; Gaz. vol. 167; p. 509.
F. B. Chamberlain Co., St. Louis, Mo. Rolled oats. No. 83,635; Oct. 3; Gaz. vol. 171; p. 209.
F. B. Chamberlain Company, St. Louis, Mo. Flour. No. 83,816; Oct. 17; Gaz. vol. 171; p. 739.
F. B. Chamberlain Company, St. Louis, Mo. Certain foods. No. 84,081; Nov. 7; Gaz. vol. 172; p. 255.
F. B. Washburn & Co., Brockton, Mass. Candy. No. 81,041; Feb. 21; Gaz. vol. 163; p. 725.
F. E. Royston & Co., Aurora, Ill. Canned fruits, vegetables, and salmon. No. 80,807; Jan. 31; Gaz. vol. 162; p. 1180.
F. E. Royston & Co., Aurora, Ill. Certain food. No. 81,631; Apr. 25; Gaz. vol. 165; p. 969.
F. G. Hollis & Company, Bennettsville, S. C. Wheat-flour. No. 82,515; July 4; Gaz. vol. 168; p. 245.
F. M. Hoyt Shoe Company, Manchester, N. H. Leather boots and shoes. No. 82,086; May 30; Gaz. vol. 166; p. 1278.
F. O. Stone Baking Co., The, Cincinnati, Ohio. Cake. No. 82,117; May 30; Gaz. vol. 166; p. 1279.
F. O. Stone Baking Co., The, Cincinnati, Ohio. Cake. No. 83,372; Sept. 5; Gaz. vol. 170; p. 241.
F. S. Walton Company, Camden, N. J., and Philadelphia, Pa. Lubricating-greases. No. 81,184; Mar. 7; Gaz. vol. 164; p. 247.
F. T. Wise Cigar Company, Incorporated, Suffolk, Va. Cigars, cigarettes, cheroots, and tobacco. No. 82,191; June 6; Gaz. vol. 167; p. 238.
F. W. Devoe & C. T. Raynolds Co., New York, N. Y. Flat colors. No. 81,792; May 9; Gaz. vol. 166; p. 507.

Alphabetical list of registrants of trade-marks—Continued.

F. W. Devoe & C. T. Raynolds Co., New York, N. Y. Paint, varnish, and varnish-stain. No. 82,216; June 13; Gaz. vol. 167; p. 509.
F. W. Gesswein Co., New York, N. Y. Pliers. No. 81,694; May 2; Gaz. vol. 166; p. 246.
F. W. King Optical Company, The, Cleveland, Ohio. Melters' eyeglasses and spectacles. No. 80,537; Jan. 3; Gaz. vol. 162; p. 266.
Faber, A. W., Stein, near Nuremberg, and Berlin, Germany. Pencils. No. 81,259; Mar. 21; Gaz. vol. 164; p. 735.
Faber, Firm of A. W., Stein, near Nuremberg, and Berlin, Germany. Pencils. No. 83,824; Oct. 17; Gaz. vol. 171; p. 739.
Faber, Eberhard, New York, N. Y. Rubber erasers and bands, lead-pencils, and penholders. No. 82,776; July 25; Gaz. vol. 168; p. 1028.
Faber, Eberhard, New York, N. Y. Lead-pencils. Nos. 82,777–8; July 25; Gaz. vol. 168; p. 1028.
Faber, Eberhard, New York, N. Y. Lead-pencils and rubber erasers. No. 83,564; Sept. 26; Gaz. vol. 170; p. 923.
Faber, Eberhard, New York, N. Y. Rubber erasers. No. 83,565; Sept. 26; Gaz. vol. 170; p. 924.
Faber, Eberhard, New York, N. Y. Rubber bands. No. 84,366; Dec. 5; Gaz. vol. 173; p. 283.
Fabrique de Soie Artificielle d'Obourg (Société Anonyme), Obourg-lez-Mons, Belgium. Artificial-silk thread. No. 83,400; Sept. 12; Gaz. vol. 170; p. 477.
Fahnestock Co., B. A., Pittsburg, Pa. Stomach and liver pills. No. 81,447; Apr. 11; Gaz. vol. 165; p. 469.
Fairbanks Company, The, Jersey City, N. J., and New York, N. Y. Two-cycle marine gas-engines. Nos. 80,904–5; Feb. 14; Gaz. vol. 163; p. 477.
Fairchild Bros. & Foster, New York, N. Y. Purgative. No. 81,864; May 16; Gaz. vol. 166; 747.
Famol Products Co., Inc., The, Washington, D. C. Flavors. No. 84,474; Dec. 19; Gaz. vol. 173; p. 857.
Farbenfabriken of Elberfeld Company, New York, N. Y. Sedative and hypnotic. No. 81,136; Mar. 7; Gaz. vol. 164; p. 245.
Farbenfabriken of Elberfeld Company, New York, N. Y. Antiseptic and disinfectant. No. 81,387; Apr. 4; Gaz. vol. 165; p. 237.
Farbenfabriken of Elberfeld Company, New York, N. Y. Decalcomania transfer-pictures. No. 82,221; June 13; Gaz. vol. 167; p. 509.
Farbenfabriken of Elberfeld Company, New York, N. Y. Antiseptic. No. 84,384; Dec. 12; Gaz. vol. 173; p. 579.
Farbenfabriken of Elberfeld Company, New York, N. Y. Disinfectant. No. 84,475; Dec. 19; Gaz. vol. 173; p. 858.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Remedy for the nerves of the brain. No. 81,062; Feb. 28; Gaz. vol. 163; p. 973.
Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany. Medicinal powder. No. 81,388; Apr. 4; Gaz. vol. 165; p. 237.
Farmers' Cotton Oil & Fertilizer Co., Huntsville, Ala. Fertilizer. No. 81,260; Mar. 21; Gaz. vol. 164; p. 735.
Farwell Mills, Lisbon, Me. Table-napkins. No. 83,237; Aug. 29; Gaz. vol. 169; p. 1180.
Faultless Rubber Company, The, Ashland, Ohio. Rubber gloves. No. 83,566; Sept. 26; Gaz. vol. 170; p. 924.
Faultless Rubber Company, Ashland, Ohio. Water-bottles, ice-caps, and fountain-syringes. No. 83,567; Sept. 26; Gaz. vol. 170; p. 924.
"Favorit" Vergasergesellschaft m. b. H., Berlin, Germany. Carbureting apparatus for liquid fuels. No. 84,476; Dec. 19; Gaz. vol. 173; p. 858.
Federal Milling Company, Lockport, N. Y. Wheat-flour. No. 82,877; Aug. 1; Gaz. vol. 169; p. 199.
Federal Process Company, Chicago, Ill. Fabricated composite sheet-roofing. Nos. 80,649–50; Jan. 17; Gaz. vol. 162; p. 779.
Federal Sugar Refining Company, Yonkers and New York, N. Y. Granulated sugar. No. 80,906; Feb. 14; Gaz. vol. 163; p. 477.
Feipel, Peter J., Chicago, Ill. Laundry preparation. No. 83,568; Sept. 26; Gaz. vol. 170; p. 924.
Feldman, Edward D., New York, N. Y. Tonic used for certain diseases. No. 83,825; Oct. 17; Gaz. vol. 171; p. 739.
Felsenthal Bros. & Co., Chicago, Ill. Combs, barrettes, collar-buttons, buckles, &c. No. 82,314; June 20; Gaz. vol. 167; p. 758.
Fendrich, Firm of H., Evansville, Ind. Cigars. No. 83,149; Aug. 22; Gaz. vol. 169; p. 939.
Fenn, George E., Boston, Mass. Ventilators. No. 83,061; Aug. 15; Gaz. vol. 169; p. 697.
Féraut, Julien, Sacramento, Cal. Liniment. No. 81,209; Mar. 14; Gaz. vol. 164; p. 503.
Ferment Company, The, New York, N. Y. Scientifically-soured milk. No. 82,064; May 30; Gaz. vol. 166; p. 1277.
Fern Candy Company, St. Louis, Mo. Ice-cream and water-ices. No. 82,315; June 20; Gaz. vol. 167; p. 758.
Ferrin, Frank M., Boston, Mass. Insulated electric conductors and cables. No. 80,772; Jan. 31; Gaz. vol. 162; p. 1179.
Ferrin, Frank M., Boston, Mass. Insulated electric conductors and cables. No. 83,971; Oct. 24; Gaz. vol. 171; p. 981.
Ferris and Leith, Chicago, Ill. Go-carts and perambulators. No. 84,174; Nov. 14; Gaz. vol. 172; p. 545.
Ferris, Warren B., Columbus, Ohio. Brick. No. 81,982; May 23; Gaz. vol. 166; p. 982.
Fesler Sales Company, New York, N. Y. Fountain shaving-brushes. No. 81,261; Mar. 21; Gaz. vol. 164; p. 735.
Fesler Sales Company, New York, N. Y. Shaving-soap. No. 81,330; Mar. 28; Gaz. vol. 164; p. 971.
Fidalgo Island Packing Co., Anacortes, Wash. Canned salmon. No. 81,137; Mar. 7; Gaz. vol. 164; p. 245.
Field Force Pump Company, Elmira Heights, N. Y. Hand-operated sprayers and spraying-machines. No. 81,063; Feb. 28; Gaz. vol. 163; p. 973.
Finlay, Louise C., New York, N. Y. Ointment. No. 80,907; Feb. 14; Gaz. vol. 163; p. 477.
Finlay, Louise C., New York, N. Y. Remedy for diseases of the blood. No. 80,908; Feb. 14; Gaz. vol. 163; p. 477.
Fireball Gas Tank & Illuminating Company, St. Louis, Mo. Gas-tanks. No. 83,998; Oct. 31; Gaz. vol. 171; p. 1253.
First American Perfumery "Oja" G. m. b. H., Hamburg, Germany. Certain toilet preparations. No. 84,477; Dec. 19; Gaz. vol. 173; p. 858.
Firth-Sterling Steel Company, McKeesport, Pa. High-speed cutting-steel. No. 84,223; Nov. 21; Gaz. vol. 172; p. 817.
Fischbeck Soap Company, San Francisco, Cal. Washing-powder. No. 84,478; Dec. 19; Gaz. vol. 173; p. 858.
Fischer Bros., Seattle, Wash. Brooms, mops, brushes, &c. No. 82,317; June 20; Gaz. vol. 167; p. 758.
Fish, Thomas, assignor to The Ready Tool Company, Bridgeport, Conn. Boring-mill, planer and shaper, lathe and turning tools. No. 81,138; Mar. 7; Gaz. vol. 164; p. 245.
Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 82,688; July 18; Gaz. vol. 168; p. 783.
Fisher, Hart C., San Francisco, Cal. Tea. No. 81,513; Apr. 18; Gaz. vol. 165; p. 725.
Fisk Rubber Company, The, Chicopee Falls, Mass. Pneumatic tires for vehicles. No. 82,145; June 6; Gaz. vol. 167; p. 237.
Flash Chemical Co., Boston, Mass. Liquid fish-glue. No. 83,723; Oct. 10; Gaz. vol. 171; p. 477.
Flash Chemical Co., Boston, Mass. Insect and vermin exterminator, disinfectant, and talcum powder. No. 84,088; Nov. 7; Gaz. vol. 172; p. 255.
Fleming & Co., Baltimore, Md. Canned fruits and vegetables. No. 82,779; July 25; Gaz. vol. 168; p. 1028.
Fleming & Co., Baltimore, Md. Canned fruits, vegetables, and oysters. No. 82,780; July 25; Gaz. vol. 168; p. 1028.
Fleming, James A., Philadelphia, Pa. Lubricating-oil for machinery. No. 83,238; Aug. 29; Gaz. vol. 169; p. 1180.
Fleming, Reid & Co., Limited, Greenock, Scotland. Woolen underclothing. No. 82,146; June 6; Gaz. vol. 167; p. 237.
Fletcher Coffee & Spice Co., Little Rock, Ark. Coffee. No. 81,601; Apr. 25; Gaz. vol. 165; p. 968.
Fletcher Mfg. Co., Providence, R. I. Lamp-wickings. No. 82,065; May 30; Gaz. vol. 166; p. 1277.
Fletcher & Wilson Coffee Co., Nashville, Tenn. Compound of coffee, cereal, and chicory. No. 83,999; Oct. 31; Gaz. vol. 171; p. 1253.
Fletcher & Wilson Coffee Company. (See Stroud & Fletcher, assignors.)
Flexible Steel Lacing Company, Chicago, Ill. Belt-fasteners. No. 84,224; Nov. 21; Gaz. vol. 172; p. 817.
Flexible Steel Lacing Company, Chicago, Ill. Belt-lacing. No. 84,225; Nov. 21; Gaz. vol. 172; p. 817.
Flint Manufacturing Company, Gastonia, N. C. Cotton yarns. No. 83,239; Aug. 29; Gaz. vol. 169; p. 1180.
Flint and Walling Mfg. Co., Kendallville, Ind. Hydraulic pumps and parts thereof. No. 82,974; Aug. 8; Gaz. vol. 169; p. 446.
Floccher, Joseph V., Boston and East Boston, Mass. Wheat flour and bread. No. 82,589; July 11; Gaz. vol. 168; p. 520.
Flood & Conklin Co., Newark, N. J. Varnishes. No. 81,064; Feb. 28; Gaz. vol. 163; p. 973.
Flood & Conklin Co., Newark, N. J. Varnish. No. 81,448; Apr. 11; Gaz. vol. 165; p. 469.
Flood & Conklin Co., Newark, N. J. Paint mixture. No. 82,975; Aug. 8; Gaz. vol. 169; p. 446.
Floor Clean Company, The, Chicago, Ill. Polishing and cleaning preparation and cloth. No. 81,139; Mar. 7; Gaz. vol. 164; p. 245.
Florence Citrus Growers Association, Florence Villa, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. Nos. 81,983–5; May 23; Gaz. vol. 166; p. 982.
Florence Citrus Growers Association, Florence Villa, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 82,781; July 25; Gaz. vol. 168; p. 1028.
Fly & Hobson Company, Memphis, Tenn. Blended coffee. No. 82,590; July 11; Gaz. vol. 168; p. 520.
Flynn, Mary A., Easton, Pa. An ointment for burns, scalds, sores, and blood-poison. No. 82,066; May 30; Gaz. vol. 166; p. 1277.

Alphabetical list of registrants of trade-marks—Continued.

Focht, Harry I., Reading, Pa. Adhesive cements. No. 80,588; Jan. 10; Gaz. vol. 162; p. 533.
Fogg & Hires Company, Salem, N. J. Canned vegetables. No. 81,449; Apr. 11; Gaz. vol. 165; p. 469.
Folsom & Tillman, Helena, Ga. Certain pocket and table cutlery and machines. No. 81,690; May 2; Gaz. vol. 166; p. 246.
Foote & Jenks, Jackson, Mich. Concentrated extracts or syrups. No. 81,986; May 23; Gaz. vol. 166; p. 982.
Forchheimer, Firm of Hugo, New Orleans, La. Lumber. Nos. 81,451–2; Apr. 11; Gaz. vol. 165; p. 469.
Forchheimer, Firm of Hugo, New Orleans, La. Lumber. No. 82,318; June 20; Gaz. vol. 167; p. 758.
Ford Foundry Company, Concord, N. H. Ranges, stoves, furnaces, &c., and parts thereof. No. 81,987; May 23; Gaz. vol. 166; p. 982.
Ford, George A., Chicago, Ill. Textile underwear and bathing-suits. No. 83,972; Oct. 24; Gaz. vol. 171; p. 981.
Foreign Steel Company, Hoboken, N. J., and New York, N. Y. Files. No. 80,839; Feb. 7; Gaz. vol. 163; p. 227.
Foreman Shoe Company, Charlotte, N. C. Leather shoes. No. 83,724; Oct. 10; Gaz. vol. 171; p. 477.
Forster Manufacturing Company, Dixfield, Me. Tooth-picks. No. 83,401; Sept. 12; Gaz. vol. 170; p. 477.
Forster, Thomas V., New York, N. Y. Hose reels and racks. No. 82,067; May 30; Gaz. vol. 166; p. 1277.
Fort Stanwix Canning Company, Rome, N. Y. Canned fruits and vegetables. Nos. 81,065–6; Feb. 28; Gaz. vol. 163; p. 973.
Fort Wayne Drug Company, Fort Wayne, Ind. Olive-oil. No. 80,909; Feb. 14; Gaz. vol. 163; p. 477.
Foster Art Pub. Co., Evansville, Ind. Monthly magazine. No. 83,725; Oct. 10; Gaz. vol. 171; p. 477.
Foster, Caldarera & Co., Fort Smith, Ark. Compound of corn-syrup with cane flavor and sorghum. No. 83,240; Aug. 29; Gaz. vol. 169; p. 1180.
Foster, Caldarera & Co., Fort Smith, Kans. Wheat-flour and canned salmon. No. 83,484; Sept. 19; Gaz. vol. 170; p. 699.
Foulds Milling Company, The, Cincinnati, Ohio, and Chicago, Ill. Macaroni, spaghetti, vermicelli, and noodles. No. 82,507; July 4; Gaz. vol. 168; p. 245.
Foulds Milling Company, The, Cincinnati, Ohio, and Chicago, Ill. Macaroni, spaghetti, vermicelli, and noodles. No. 84,615; Dec. 26; Gaz. vol. 173; p. 1074.
Fox, Jay E., Columbus, Ohio. Certain medicine for external and internal use. No. 81,210; Mar. 14; Gaz. vol. 164; p. 503.
Fox Typewriter Co., Grand Rapids, Mich. Type-writers. No. 80,996; Feb. 21; Gaz. vol. 163; p. 724.
Fox, Weinig & Co., New York, N. Y. Fur collars and muffs. No. 82,508; July 4; Gaz. vol. 168; p. 245.
Francis H. Leggett & Company, New York, N. Y. Pancake-flour. No. 83,162; Aug. 22; Gaz. vol. 169; p. 940.
Francis H. Leggett & Company, New York, N. Y. Head-rice. No. 83,263; Aug. 29; Gaz. vol. 169; p. 1180.
Franck Söhne, Heinr., Ludwigsburg, Germany. Chicory. No. 83,863; Oct. 17; Gaz. vol. 171; p. 741.
Franco American Chemical Co., The, Montreal, Quebec, Canada. Remedy for female complaints. No. 80,840; Feb. 7; Gaz. vol. 163; p. 227.
Franco-American Food Company, Jersey City, N. J. Certain foods. No. 84,312; Nov. 28; Gaz. vol. 172; p. 1085.
Frank W. Whitcher Company, Boston, Mass. Welt-trimmers. No. 81,237; Mar. 14; Gaz. vol. 164; p. 504.
Frank W. Whitcher Company, Boston, Mass. Rubber heels. No. 83,300; Aug. 29; Gaz. vol. 169; p. 1182.
Franklin Baker Company, The, Philadelphia, Pa. Shredded cocoanut. No. 83,827; Oct. 17; Gaz. vol. 171; p. 739.
Franklin Company, The, Boundbrook, N. J. Oilless and antifriction bearings. No. 84,089; Nov. 7; Gaz. vol. 172; p. 255.
Franklin, Henry O. (See Lacko Specialty Company, assignor.)
Franklin MacVeagh & Co., Chicago, Ill. Cigars. No. 83,420; Sept. 12; Gaz. vol. 170; p. 478.
Franklin MacVeagh & Company, Chicago, Ill. Grape-juice. No. 83,926; Oct. 24; Gaz. vol. 171; p. 980.
Franklin Mfg. Co., Baltimore, Md. Cotton piece goods. No. 80,520; Jan. 3; Gaz. vol. 162; p. 265.
Franzoni, Charles H., Washington, D. C. Antiseptic solution for the treatment of catarrh, &c. No. 82,782; July 18; Gaz. vol. 168; p. 1028.
Fred B. Higgins Co., Boothbay Harbor, Me. Fresh lobsters. No. 83,836; Oct. 17; Gaz. vol. 171; p. 740.
Fred L. Kimball Company, Waterloo, Iowa. Weekly publication. No. 80,600; Jan. 10; Gaz. vol. 162; p. 534.
Frederick Charlton Company, Los Angeles, Cal. Drawing-inks. No. 84,166; Nov. 14; Gaz. vol. 172; p. 545.
Frederick Disinfectant Co., Atlanta, Ga. Disinfectants. No. 83,973; Oct. 24; Gaz. vol. 171; p. 981.
Frederick F. Ingram Co., Detroit, Mich. Toilet preparations. No. 81,611; Apr. 25; Gaz. vol. 165; p. 968.
Fredonia Linseed Oil Works, Fredonia, Kans. Linseed-oil meal. No. 83,485; Sept. 19; Gaz. vol. 170; p. 699.
Free, Spencer M., Dubois, Pa. Pills. No. 83,569; Sept. 26; Gaz. vol. 170; p. 924.
Freiberg, Sig. & Sol. H., Cincinnati, Ohio. Whisky. No. 84,175; Nov. 14; Gaz. vol. 172; p. 545.
Freiburger & Bro., S., Fort Wayne, Ind. Children's leather and canvas shoes. No. 83,974; Oct. 24; Gaz. vol. 171; p. 981.
Fremont Kraut Company, The, Fremont, Ohio. Canned sauer-kraut. No. 80,521; Jan. 3; Gaz. vol. 162; p. 265.
Fremont Kraut Company, Fremont, Ohio. Canned sauer-kraut. No. 80,589; Jan. 10; Gaz. vol. 162; p. 533.
Fremont Saddlery Company, Fremont, Nebr. Horse equipments and whips. No. 82,878; Aug. 1; Gaz. vol. 169; p. 199.
French Manufacturing Company, The, St. Louis, Mo. Corn-starch. No. 81,602; Apr. 25; Gaz. vol. 165; p. 968.
French Mfg. Co., Carson, Wash. Medicines for the treatment of inflammatory and septic conditions of the vagina. No. 84,313; Nov. 28; Gaz. vol. 172; p. 1085.
French Renovating Company, Cleveland, Ohio. Dyes. No. 81,866; May 16; Gaz. vol. 166; p. 747.
French Tea Gown Co., New York, N. Y. Shirt-waists and dresses. No. 80,773; Jan. 31; Gaz. vol. 162; p. 1179.
French Toilet Co., Chattanooga, Tenn. Cold-cream. No. 81,389; Apr. 4; Gaz. vol. 165; p. 237.
Frenchman's Bay Packing Co., South Gouldsboro, Me. Canned sardines. No. 81,140; Mar. 7; Gaz. vol. 164; p. 245.
Fretz, Gross & Co., Philadelphia, Pa. Umbrella frames, ribs, and trimmings. No. 84,616; Dec. 26; Gaz. vol. 173; p. 1074.
Fried. Krupp, Aktiengesellschaft, Grusonwerk, Magdeburg-Buckau, Germany. Steam-boilers. No. 84,239; Nov. 21; Gaz. vol. 172; p. 818.
Friedenwald & Company, J. H., Baltimore, Md. Cocktails and egg-nog. No. 82,068; May 30; Gaz. vol. 166; p. 1277.
Friedlaender, Paul N., New York, N. Y. Metal-polishes. No. 81,514; Apr. 18; Gaz. vol. 165; p. 725.
Fritz Erle Gesellschaft mit beschränkter Haftung, Cologne-Nippes, Germany. Fruit drinks. No. 80,838; Feb. 7; Gaz. vol. 163; p. 227.
Froatz, Frederick F., New York, N. Y. Remedies for diseases of the vagina, ovaries, and womb. No. 80,590; Jan. 10; Gaz. vol. 162; p. 533.
Fuld, William, Baltimore, Md. Pool-tables. No. 83,828; Oct. 17; Gaz. vol. 171; p. 740.
Fulkerson, Roe, Washington, D. C. Instructive literary compositions published serially. No. 83,570; Sept. 26; Gaz. vol. 170; p. 924.
Funk, Oscar, Chalfont, Pa. Horse-liniment. No. 81,453; Apr. 11; Gaz. vol. 165; p. 470.
G. Reis & Bro., New York, N. Y. Labels, initials, and other embroidery foundations. No. 82,107; May 30; Gaz. vol. 166; p. 1278.
G. Smith & Sons, Inc., Seelyville, Pa. Cheese. No. 83,521; Sept. 19; Gaz. vol. 170; p. 700.
G. B. Stock Xylite Grease & Oil Co., Port Huron, Mich. Lubricating oils, greases, and compounds. No. 84,143; Nov. 7; Gaz. vol. 172; p. 257.
G. H. Bass & Co., Wilton, Me. Boots, shoes, slippers, and moccasins. No. 80,635; Jan. 17; Gaz. vol. 162; p. 779.
G. R. Burgh Chemical Co., New York, N. Y. Suppositories. No. 82,301; June 20; Gaz. vol. 167; p. 757.
G. W. Van Slyke & Horton, Albany, N. Y. Cigars. No. 82,538; July 4; Gaz. vol. 168; p. 246.
G. W. J. Murphy Co., Merrimac, Mass. Curtain-fasteners. No. 84,251; Nov. 21; Gaz. vol. 172; p. 818.
Gage Brothers & Co., Chicago, Ill. Feathers. No. 81,331; Mar. 28; Gaz. vol. 164; p. 971.
Galban & Co., Inc., New York, N. Y., and Habana, Cuba. Wheat-flour. No. 81,263; Mar. 21; Gaz. vol. 164; p. 735.
Gale Manufacturing Co., Albion, Mich. Sulky-plows and parts thereof. No. 81,867; May 16; Gaz. vol. 166; p. 747.
Gale Manufacturing Company, Albion, Mich. Cultivators and parts thereof. No. 81,692; May 2; Gaz. vol. 166; p. 246.
Gale Manufacturing Company, Albion, Mich. Cultivators and parts thereof. No. 82,222; June 13; Gaz. vol. 167; p. 510.
Galesburg Grocery Company, The, Galesburg, Ill. Sugar, olives, vinegar, and salad-dressing. No. 82,319; June 20; Gaz. vol. 167; p. 758.
Galesburg Grocery Company, The, Galesburg, Ill. Certain food. No. 82,592; July 11; Gaz. vol. 168; p. 520.
Gallert Manufacturing Co., H., New York, N. Y. Hair-nets. No. 83,975; Oct. 24; Gaz. vol. 171; p. 981.
Gallet, Maurice, Seattle, Wash. Preparations for removing spots or stains from garments, &c. No. 81,391; Apr. 4; Gaz. vol. 165; p. 237.
Galloway-West Company, Fond du Lac, Wis. Butter and cheese. No. 82,593; July 11; Gaz. vol. 168; p. 520.
Gallun & Sons, A. F., Milwaukee, Wis. Vegetable-tanned leather. No. 83,571; Sept. 26; Gaz. vol. 170; p. 924.
Gallun & Sons, A. F., Milwaukee, Wis. Chrome-tanned leather. No. 83,572; Sept. 26; Gaz. vol. 170; p. 924.
Gallun & Sons, A. F., Milwaukee, Wis. Vegetable-tanned leather. No. 83,573; Sept. 26; Gaz. vol. 170; p. 924.
Galo Manufacturing Company, The, Chicago, Ill. Preserving composition for articles of food. No. 80,910; Feb. 14; Gaz. vol. 163; p. 477.
Gandy Belting Company of Baltimore City, The, Baltimore, Md. Belt-dressing. No. 81,603; Apr. 25; Gaz. vol. 165; p. 968.

Alphabetical list of registrants of trade-marks—Continued.

Gandy Belting Company of Baltimore City, Baltimore, Md. Canvas belting. No. 82,069; May 30; Gaz. vol. 166; p. 1277.
Garcin, Edward H., New York, N. Y. Brake-linings. No. 80,774; Jan. 31; Gaz. vol. 162; p. 1179.
Gardenier, Charles F. D., Hudson, N. Y. Ointment. No. 82,594; July 11; Gaz. vol. 168; p. 520.
Gardiner, Beardsell & Company, Boston, Mass. Shoe-counters. Nos. 83,900–1; Oct. 24; Gaz. vol. 171; p. 979.
Garland Manufacturing Co., Saco, Me. Loom-supplies. No. 81,515; Apr. 18; Gaz. vol. 165; p. 725
Garner-Blakely Company, Bainbridge, Ga. Cane-syrup. No. 81,067; Feb. 28; Gaz. vol. 163; p. 973.
Garrels & Börner, Hamburg, Germany. Bristles. No. 83,241; Aug. 29; Gaz. vol. 169; p. 1180.
Garrels & Börner, Hamburg, Germany. Drills, sheetings, flannel, and cotton duck. No. 83,242; Aug. 29; Gaz. vol. 169; p. 1180.
Gas Machinery Co., The, Cleveland, Ohio. Certain machinery. No. 81,693; May 2; Gaz. vol. 166; p. 246.
Gatlin Manufacturing Co., Kansas City, Mo. Enameled metal ware. No. 81,068; Feb. 28; Gaz. vol. 163; p. 973.
Gau, Henry F., Cincinnati, Ohio. Medicine to be applied externally. No. 83,486; Sept. 19; Gaz. vol. 170; p. 699.
Gautier frères, Aigre, France. Liqueur of cognac. No. 82,783; July 25; Gaz. vol. 168; p. 1028.
Geer, George J., New York, N. Y. Certain piece goods. Nos. 80,841–3; Feb. 7; Gaz. vol. 163; p. 227.
Geer, George J., New York, N. Y. Woolen, worsted, silk, mohair, and cotton piece goods. Nos. 83,727–8; Oct. 10; Gaz. vol. 171; p. 477.
Gem Shirt Company, The, Dayton, Ohio. Certain clothing. No. 82,689; July 18; Gaz. vol. 168; p. 783.
General Drug Company, New York, N. Y. Headache remedies. No. 80,651; Jan. 17; Gaz. vol. 162; p. 779.
General Drug Company, New York, N. Y. Toilet creams and waters and hair-tonics. No. 80,911; Feb. 14; Gaz. vol. 163; p. 477.
General Drug Company, New York, N. Y. Headache remedies. No. 81,069; Feb. 28; Gaz. vol. 163; p. 973.
Genesee Pure Food Company, Le Roy, N. Y. Cereal-food drink. No. 82,879; Aug. 1; Gaz. vol. 169; p. 199.
Gengaro & Company, F., New York, N. Y. Olive-oil. No. 84,385; Dec. 12; Gaz. vol. 173; p. 579.
Geo. Borgfeldt & Co., New York, N. Y. Tooth-brushes. No. 81,121; Mar. 7; Gaz. vol. 164; p. 245.
Geo. Borgfeldt & Co., New York, N. Y. Sticky fly-paper. No. 83,131; Aug. 22; Gaz. vol. 169; p. 939.
Geo. Borgfeldt & Co., New York, N. Y. Certain named cutlery. No. 84,077; Nov. 7; Gaz. vol. 172; p. 255.
Geo. D. Wetherill & Co., Inc., Philadelphia, Pa. Ready-mixed paint. No. 83,376; Sept. 5; Gaz. vol. 170; p. 241.
Geo. H. Strietmann's Sons Company, Cincinnati, Ohio. Sugar wafers. No. 81,641; Apr. 25; Gaz. vol. 165; p. 969.
Geo. H. Strietmann's Sons Company, The, Cincinnati, Ohio. Sugar-wafer sticks. No. 82,841; July 25; Gaz. vol. 168; p. 1030.
Geo. N. Marshall Co., Phoenix, Ariz. Butter, creamery-cheese, milk, cream, ice-cream, and buttermilk. No. 83,847; Oct. 17; Gaz. vol. 171; p. 740.
Geo. S. Johnston Co., Chicago, Ill. Cabinets. No. 83,918; Oct. 24; Gaz. vol. 171; p. 980.
George A. Kelly Company, Pittsburgh, Pa. Cleaning and bleaching preparation. No. 84,321; Nov. 28; Gaz. vol. 172; p. 1085.
George A. Moss, Incorporated, New York, N. Y. Liquid bluing. No. 81,019; Feb. 21; Gaz. vol. 163; p. 724.
George Close Company, The, Cambridge, Mass. Candy. No. 83,322; Sept. 5; Gaz. vol. 170; p. 239.
George F. Dittmann Boot & Shoe Co., St. Louis, Mo. Boots and shoes of leather. No. 81,596; Apr. 25; Gaz. vol. 165; p. 968.
George Lueders & Co., New York, N. Y. Peroxid of hydrogen. No. 80,603; Jan. 10; Gaz. vol. 162; p. 534.
George M. Dunlap Company, Philadelphia, Pa. Blend tea. No. 83,038; Aug. 8; Gaz. vol. 169; p. 447.
George M. Edgarton Co., Inc., Boston, Mass. Suspenders. No. 82,218; June 13; Gaz. vol. 167; p. 509.
George P. Dixon Company, Providence, R. I. Lubricating oils and greases. No. 80,991; Feb. 21; Gaz. vol. 163; p. 723.
Georgia Barbecue Sauce Co., Atlanta, Ga. Sauce. No. 80,844; Feb. 7; Gaz. vol. 163; p. 227.
Gerber-Buschmann Cutlery & Silverware Co., St. Louis, Mo. Manicure and pedicure instruments. No. 82,880; Aug. 1; Gaz. vol. 169; p. 199.
Germann and Company, Limited, Manila, Philippine Islands. Cigars. Nos. 84,386–91; Dec. 12; Gaz. vol. 173; p. 579.
Germicide Co., The, Denver, Colo. Remedy for sore, burning, blistering, aching feet. No. 80,775; Jan. 31; Gaz. vol. 162; p. 1179.
Gerretson Company, Milwaukee, Wis. Certain clothing. No. 83,243; Aug. 29; Gaz. vol. 169; p. 1180.
Gesellschaft für Brauerei, Spiritus, und Pressehafe-Fabrikation vormals G. Sinner, Grünwinkel, near Karlsruhe, Germany. Whisky, brandy, and gin. No. 82,429; June 27; Gaz. vol. 167; p. 978.

Getmor Hosiery Mills, The, Reading, Pa. Hosiery. No. 83,244; Aug. 29; Gaz. vol. 169; p. 1180.
Getsinger, Edward C., Washington, D. C. Medicinal tablets for coughs, colds, asthma, &c. No. 84,001; Oct. 31; Gaz. vol. 171; p. 1253.
Gibson Canning Company, The, Gibson City, assignor to Yours Truly Company, Chicago, Ill. Certain foods. No. 83,330; Sept. 5; Gaz. vol. 170; p. 239.
Gibson Mandolin-Guitar Co., Kalamazoo, Mich. Periodical musical publications. No. 83,902; Oct. 24; Gaz. vol. 171; p. 979.
Gieraltowski, Charles P., Chicago, Ill. Laxative, purgative, intestinal tonic and antiseptic. No. 82,784; July 25; Gaz. vol. 168; p. 1028.
Giesler, Fred, St. Louis, Mo. Eye-water. No. 82,070; May 30; Gaz. vol. 166; p. 1277.
Gillette, Louis F., Concord, N. H. Metal hot-water bottles. No. 82,071; May 30; Gaz. vol. 166; p. 1278.
Gilmore, Park M., Covington, Ky. Hair-stain. No. 83,903; Oct. 24; Gaz. vol. 171; p. 979.
Givaudan, L., Vernier, Switzerland. Dyestuffs. No. 81,868; May 16; Gaz. vol. 166; p. 747.
Givens, Thomas C., Dyersburg, Tenn. Remedy for diseases of the kidneys, blood, and stomach. No. 82,595; July 11; Gaz. vol. 168; p. 520.
Glasser, Hyman, New York, N. Y. Jewelry. No. 83,245; Aug. 29; Gaz. vol. 169; p. 1180.
Glassman, Max, New York, N. Y. Hair goods. No. 81,869; May 16; Gaz. vol. 166; p. 747.
Gleason-Tiebout Glass Company, New York, N. Y. Glass shades, globes, and reflectors. No. 82,785; July 25; Gaz. vol. 168; p. 1028.
Globe Chemical Works, San Francisco, Cal. Composition for destroying blasting-fumes. No. 82,786; July 25; Gaz. vol. 168; p. 1028.
Globe Electric Company Limited, The, London, England. Electric-arc lamps. No. 81,517; Apr. 18; Gaz. vol. 165; p. 725.
Globe Knitting Works, Grand Rapids, Mich. Knitted underwear. No. 80,591; Jan. 10; Gaz. vol. 162; p. 533.
Globe Machine and Stamping Co., Cleveland, Ohio. Steel boxes for holding tools and batteries. No. 82,072; May 30; Gaz. vol. 166; p. 1278.
Globe Soap Company, The, Cincinnati, Ohio. Soap. Nos. 80,999–81,000; Feb. 21; Gaz. vol. 167; p. 724.
"Gloy" Manufacturing Company, Limited, The, London, England. Size which is used in various branches of textile trade. No. 81,799; May 9; Gaz. vol. 166; p. 508.
"Gloy" Manufacturing Company, The, Limited, London, England. Adhesive paste. No. 82,596; July 11; Gaz. vol. 168; p. 520.
Godefroy and Sons, A. F., St. Louis, Mo. Hair-dyes. No. 84,090; Nov. 7; Gaz. vol. 172; p. 255.
Godinez-Marshall Company, New York, N. Y. Electric lamps. No. 84,619; Dec. 26; Gaz. vol. 173; p. 1074.
Goell, Charles, New York, N. Y. Handkerchiefs. No. 83,063; Aug. 15; Gaz. vol. 169; p. 697.
Goiteroid Medicine Co., The, Lorimor, Iowa. Liniment. No. 84,091; Nov. 7; Gaz. vol. 172; p. 255.
Gold Car Heating and Lighting Company, New York, N. Y. Wind-operated ventilators. No. 83,403; Sept. 12; Gaz. vol. 170; p. 477.
Gold Medal Camp Furniture Manufacturing Co., Racine Junction, Wis. Chairs, cots, litters, stands, &c. No. 80,776; Jan. 31; Gaz. vol. 162; p. 1179.
Gold, Myer P., Troy, N. Y. Hosiery, knit underwear, and sweaters. No. 81,988; May 23; Gaz. vol. 166; p. 982.
Goldberg, Bowen & Co., San Francisco, Cal. Olive-oil. No. 82,073; May 30; Gaz. vol. 166; p. 1278.
Goldberg, Bowen & Co., San Francisco, Cal. Canned oysters. No. 82,322; June 20; Gaz. vol. 167; p. 758.
Goldberg, Bowen & Co., San Francisco, Cal. Blended coffee. No. 82,430; June 27; Gaz. vol. 167; p. 978.
Goldberg, Bowen & Company, San Francisco, Cal. Coffee. No. 82,690; July 18; Gaz. vol. 168; p. 783.
Goldberg, Nathan E., New York, N. Y. Certain toilet preparations. No. 81,870; May 16; Gaz. vol. 166; p. 747.
Golden Gate Company, Baltimore, Md. Certain wines. No. 84,620; Dec. 26; Gaz. vol. 173; p. 1074.
Golden Gate Company, Baltimore, Md. Wines. No. 84,621; Dec. 26; Gaz. vol. 173; p. 1074.
Golden Gate Company, Baltimore, Md. Wine. No. 84,622; Dec. 26; Gaz. vol. 173; p. 1074.
Golden Rule Shirt Company, Pennsboro, W. Va. Men's and boys' work-shirts. No. 82,881; Aug. 1; Gaz. vol. 169; p. 200.
Golden State Shoe Co., Los Angeles, Cal. Men's leather shoes. No. 81,070; Feb. 28; Gaz. vol. 163; p. 973.
Golden West Brewing Company, Oakland, Cal. Beer. No. 84,623; Dec 26; Gaz. vol. 173; p. 1074.
Goldfein, Maurice, Cleveland, Ohio. Gas water-heaters. No. 83,404; Sept. 12; Gaz. vol. 170; p. 477.
Goldfein, Maurice, Cleveland, Ohio. Gas water-heaters. No. 83,574; Sept. 26; Gaz. vol. 170; p. 924.
Goldman, Beckman & Co., Cincinnati, Ohio. Rain-coats. No. 81,871; May 16; Gaz. vol. 166; p. 747.
Goldschmidt, The Firm of Th., Essen-on-the-Ruhr, Germany. Tin. No. 80,522; Jan. 3; Gaz. vol. 162; p. 265.
Goldsmith, Joel L., Chicago, Ill. Fountain-pens. No. 81,872; May 16; Gaz. vol. 166; p. 747.

Alphabetical list of registrants of trade-marks—Continued.

Goldsmith, Joseph, New York, N. Y. Coats, vests, trousers, and overcoats. No. 83,904; Oct. 24; Gaz. vol. 171; p. 979.
Goldsmith, Ralph, New Orleans, La. Rice. No. 81,604; Apr. 25; Gaz. vol. 165; p. 968.
Goldsmith & Son, L., Newark, N. J., and New York, N. Y. Trunks, traveling-bags, and suit-cases. No. 80,845; Feb. 7; Gaz. vol. 163; p. 227.
Goldstein, Bernard J., New Jork, N. Y. Chemical fire-engines. No. 83,246; Aug. 29; Gaz. vol. 169; p. 1180.
Goldstein, Louis, New York, N. Y. Ladies' cloaks and outer suits. No. 82,224; June 13; Gaz. vol. 167; p. 510.
Goldwater, Henry, New York, N. Y. Cloaks, dresses, and coats. No. 81,873; May 16; Gaz. vol. 166; p. 747.
Gollings, Ellick H., Chicago, Ill. Detergent washing preparation. No. 82,074; May 30; Gaz. vol. 166; p. 1278.
Goodenough, Annie, New York, N. Y. Medicinal and toilet soap. No. 82,431; June 27; Gaz. vol. 167; p. 978.
Goodenough, Annie, New York, N. Y. Ointment and remedies for the skin. No. 83,730; Oct. 10; Gaz. vol. 171; p. 477.
Goodenough, Annie, New York, N. Y. Ointment and remedies for the skin. No. 84,624; Dec. 26; Gaz. vol. 173; p. 1074.
Goodrich Drug Co., Omaha, Nebr. Massage and toilet cream, talcum and face powder. No. 82,597; July 11; Gaz. vol. 168; p. 520.
Goodyear Rubber Co., San Francisco, Cal. Rubber hose. No. 83,732; Oct. 10; Gaz. vol. 171; p. 477.
Goodyear Rubber Hose & Packing Co., Philadelphia, Pa. Rubber hose, machinery packing, pump-valves, &c. No. 82,882; Aug. 1; Gaz. vol. 169; p. 200.
Goodyear Rubber Hose & Packing Co., Philadelphia, Pa. Certain rubber goods. No. 82,883; Aug. 1; Gaz. vol. 169; p. 200.
Gordon Cigar & Cheroot Company, Incorporated, Richmond, Va. Cigars. No. 83,064; Aug. 15; Gaz. vol. 169; p. 697.
Gordon Hollow Blast Grate Company, The, Greenville, Mich. Grates. No. 83,405; Sept. 12; Gaz. vol. 170; p. 477.
Gordon Hollow Blast Grate Company, The, Greenville, Mich. Edgers, trimmers, &c. No. 83,487; Sept. 19; Gaz. vol. 170; p. 699.
Gorham Rubber Company, San Francisco, Cal. Belting, hose, packing, &c. No. 80,523; Jan. 3; Gaz. vol. 162; p. 265.
Gorham Rubber Company, San Francisco, Cal. Rubber belting and hose, machinery packing, &c. No. 80,846; Feb. 7; Gaz. vol. 163; p. 227.
Gorman, Bernard I., Arlington, N. J. Pure apple-juice. No. 82,075; May 30; Gaz. vol. 166; p. 1278.
Gorman & Company, Inc., Seattle, Wash. Canned salmon. No. 81,332; Mar. 28; Gaz. vol. 164; p. 971.
Gorski, Anthony, Amsterdam, N. Y. Mustard. No. 81,211; Mar. 14; Gaz. vol. 164; p. 503.
Gorton-Pew Fisheries Company, Gloucester, Mass. Codfish and salt mackerel. No. 82,225; June 13; Sp. p. 167; p. 510.
Goss Printing Press Company, The, Chicago, Ill. Printing-presses. No. 82,976; Aug. 8; Gaz. vol. 169; p. 446.
Gotham Garter & Novelty Company, New York, N. Y. Skeleton waists, shoulder-braces, hose-supporters, and garters. No. 84,177; Nov. 14; Gaz. vol. 172; p. 545.
Gotham Garter & Novelty Company, New York, N. Y. Waists, shoulder-braces, belts, &c. No. 84,480; Dec. 19; Gaz. vol. 173; p. 858.
Goucher Electric Purifying Co., New York, N. Y. Milk, buttermilk, cream, butter, and cheese. No. 82,884; Aug. 1; Gaz. vol. 169; p. 200.
Goudie, Le Roy, Kansas City, Mo. Chewing-gum. No. 83,641; Oct. 3; Gaz. vol. 171; p. 209.
Gould Directory Company, St. Louis, Mo. Advertising-lists. No. 81,695; May 2; Gaz. vol. 166; p. 246.
Gould, Everett S., Malden, Mass. Remedy for blood diseases and an alterative. No. 82,977; Aug. 8; Gaz. vol. 169; p. 446.
Goulds Manufacturing Company, The, Seneca Falls, N. Y. Double-action-piston pumps. No. 80,592; Jan. 10; Gaz. vol. 162; p. 533.
Goulds Manufacturing Company, Seneca Falls, N. Y. Hose-nozzles. No. 80,912; Feb. 14; Gaz. vol. 163; p. 477.
Goulds Manufacturing Company, The, Seneca Falls, N. Y. Pumps for spraying fruit-trees. No. 81,874; May 16; Gaz. vol. 166; p. 748.
Gowan-Peyton-Twohy Co., Duluth, Minn. Vanilla, lemon, and almond flavoring extracts and essences. No. 84,178; Nov. 14; Gaz. vol. 172; p. 545.
Gowdy, V. M., Campbellsville, Ky. Tobacco, cigars, and cigarettes. No. 83,576; Sept. 26; Gaz. vol. 170; p. 924.
Graham, Hinkley & Co., New York, N. Y. Broom-root. Nos. 83,406–7; Sept. 12; Gaz. vol. 170; p. 477.
Grand Lake Company, The, Boston, Mass. Paper bags. Nos. 81,518–22; Apr. 18; Gaz. vol. 165; p. 725.
Grandma's Remedy Co., Savannah, Ga. Medicine for chills and fevers. No. 82,787; July 25; Gaz. vol. 168; p. 1028.
Grandmont, Ernest de, New York, N. Y. Embroideries and certain notions. No. 81,333; Mar. 28; Gaz. vol. 164; p. 971.
Grandmont, Jules G. de, New York, N. Y. Ostrich-plumes. No. 82,968; Aug. 8; Gaz. vol. 169; p. 445.
Graner, William H., New York, N. Y. Cough-drops. No. 80,524; Jan. 3; Gaz. vol. 162; p. 265.
Granger & Co., Buffalo, N. Y. Coffee. Nos. 81,455–6; Apr. 11; Gaz. vol. 165; p. 470.
Granger & Company, Buffalo, N. Y. Canned vegetables. No. 81,071; Feb. 28; Gaz. vol. 163; p. 973.
Granite State Spring Water Co., Haverhill, Mass. Spring-water and carbonated beverages. No. 84,092; Nov. 7; Gaz. vol. 172; p. 255.
Grantorpets Tändsticksfabriks Aktiebolag, Westervik, Sweden. Matches. No. 82,076; May 30; Gaz. vol. 166; p. 1278.
Graphite Lubricating Company, The, Boundbrook, N. J. Metal and graphite bearings and bushings. No. 83,488; Sept. 19; Gaz. vol. 170; p. 699.
Grattan & Co., Limited, Belfast, Ireland. Ginger-ale. No. 83,642; Oct. 3; Gaz. vol. 171; p. 209.
Grattan & Co., Limited, Belfast, Ireland. Soda-water. No. 83,643; Oct. 3; Gaz. vol. 171; p. 209.
Graux, Lucien, Paris, France. Solvent for uric acid. No. 80,778; Jan. 31; Gaz. vol. 162; p. 1179.
Graux, Lucien, Paris, France. Remedy for the improvement of the blood. No. 81,605; Apr. 25; Gaz. vol. 165; p. 968.
Graux, Lucien, Paris, France. Remedy for certain diseases. No. 84,093; Nov. 7; Gaz. vol. 172; p. 255.
Gray, Harry T., Flint, Mich. Remedy for anemia, nervous debility, &c. No. 82,323; June 20; Gaz. vol. 167; p. 758.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Teas. No. 80,913; Feb. 14; Gaz. vol. 163; p. 477.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Blended coffee. No. 81,800; May 9; Gaz. vol. 166; p. 508.
Great Western Cereal Company, The, Chicago, Ill. Rolled oats. No. 80,525; Jan. 3; Gaz. vol. 162; p. 265.
Great Western Cereal Company, The, Chicago, Ill. Cornmeal. No. 81,523; Apr. 18; Gaz. vol. 165; p. 725.
Great Western Cereal Company, The, Chicago, Ill. Stock food. No. 83,644; Oct. 3; Gaz. vol. 171; p. 209.
Great Western Knitting Company, Milwaukee, Wis. Jackets, toques, sweaters, bootees, &c. No. 82,432; June 27; Gaz. vol. 167; p. 978.
Green, Adelbert W., Schenectady, N. Y. Tonic beverages. No. 82,598; July 11; Gaz. vol. 168; p. 520.
Green & De Laittre Company, Minneapolis, Minn. Roasted coffee. No. 80,593; Jan. 10; Gaz. vol. 162; p. 533.
Green Fuel Economizer Co., The, Matteawan, N. Y. Hot-air heaters and draft-fans. No. 84,625; Dec. 26; Gaz. vol. 173; p. 1074.
Green, Jacob H., Newton Highlands, Mass. Counter-irritant. No. 83,645; Oct. 3; Gaz. vol. 171; p. 209.
Greenawalt, David F., Philadelphia, Pa. Hosiery. No. 81,989; May 23; Gaz. vol. 166; p. 982.
Greenebaum Brothers, Philadelphia, Pa. Waists. No. 83,151; Aug. 22; Gaz. vol. 169; p. 940.
Greenhut-Siegel Cooper Co., New York, N. Y. Ladies' shirt-waists. No. 83,733; Oct. 10; Gaz. vol. 171; p. 477.
Greenpoint Fire Brick Co., Brooklyn, N. Y. Fire-bricks, tiles, and blocks. No. 80,515; Jan. 3; Gaz. vol. 162; p. 265.
Greenwald, Ludwig J., Los Angeles, Cal. Bread. No. 83,489; Sept. 19; Gaz. vol. 170; p. 699.
Greenwood Mfg. and Supply Company, Boston, Mass. Metallic packing. No. 82,509; July 4; Gaz. vol. 168; p. 245.
Greenwood Pottery Co., Trenton, N. J. Chinaware. No. 80,526; Jan. 3; Gaz. vol. 162; p. 265.
Greeson, Guy B., Tampa, Fla. Cigars. No. 82,077; May 30; Gaz. vol. 166; p. 1278.
Gregory, Puckett & Co., Fenwick, W. Va. Remedy for consumption and asthma. No. 81,696; May 2; Gaz. vol. 166; p. 246.
Griffin & Skelley Co., San Francisco, Cal. Hermetically-sealed fruits and vegetables. No. 80,527; Jan. 3; Gaz. vol. 162; p. 265.
Griffin & Skelley Company, San Francisco, Cal. Canned, dried, and evaporated fruits. No. 81,072; Feb. 28; Gaz. vol. 163; p. 973.
Griffith-Durney Company, San Francisco, Cal. Canned fruits. No. 83,830; Oct. 17; Gaz. vol. 171; p. 740.
Griffith, Edward C., New York, N. Y. Rubber automobile-tires. No. 83,734; Oct. 10; Gaz. vol. 171; p. 477.
Griffith, Nathan H., Providence, R. I. Disinfectants. No. 81,801; May 9; Gaz. vol. 166; p. 508.
Grimes Canning & Preserving Company, Grimes, Iowa. Canned corn, pumpkin, and hominy. No. 83,247; Aug. 29; Gaz. vol. 169; p. 1180.
Grimes Canning & Preserving Company, Grimes, Iowa. Canned corn and red kidney-beans. No. 84,227; Nov. 21; Gaz. vol. 172; p. 817.
Grimson, Samuel, New York, N. Y. Window-cleaning apparatus. No. 81,525; Apr. 18; Gaz. vol. 165; p. 726.
Grinsfelder Company, The, Spokane, Wash. Cigars. Nos. 83,152–3; Aug. 22; Gaz. vol. 169; p. 940.

Alphabetical list of registrants of trade-marks—Continued.

Griswold Salve Corporation, The, Hartford, Conn. Salve. No. 83,065; Aug. 15; Gaz. vol. 169; p. 697.
Gros, Million & Cie., Lyon, France. Tulles. No. 81,073; Feb. 28; Gaz. vol. 163; p. 973.
Grosse Co., William T., San Francisco, Cal. Soap. No. 82,788; July 25; Gaz. vol. 168; p. 1028.
Grosse, William T., San Francisco, Cal. Soap. No. 81,526; Apr. 18; Gaz. vol. 165; p. 726.
Grosse, Wm. T., San Francisco, Cal. Soap. No. 82,453; June 27; Gaz. vol. 167; p. 978.
Grossmann, I., Vienna, Austria-Hungary, and New York, N. Y. Hair-nets. No. 81,143; Mar. 7; Gaz. vol. 164; p. 245.
Grosvenor, Jonathan P., Worcester, Mass. Slippers, shoes, and mittens. No. 82,510; July 4; Gaz. vol. 168; p. 245.
Grove, Prager & Miller, Baltimore, Md. Cream-cheese. No. 81,264; Mar. 21; Gaz. vol. 164; p. 735.
Grumme & Son, Stockholm, Sweden. Mouth-wash. No. 82,147; June 6; Gaz. vol. 167; p. 237.
Grumme & Son, Stockholm, Sweden. Tooth-cream. No. 82,789; July 25; Gaz. vol. 168; p. 1028.
Gudebrod Bros. Co., New York, N. Y. Silk, cotton, mercerized, and machine sewing-threads. No. 80,915; Feb. 14; Gaz. vol. 163; p. 477.
Guggenheim, Emanuel, Philadelphia, Pa. Remedy for coughs. No. 81,212; Mar. 14; Gaz. vol. 164; p. 503.
Guice Brothers, Birmingham, Ala. Wheat-flour. No. 81,606; Apr. 25; Gaz. vol. 165; p. 968.
Gulfport Grocery Company, Gulfport, Miss. Cattle foods. No. 81,607; Apr. 25; Gaz. vol. 165; p. 968.
Gundlach-Bundschu Wine Co. Inc., San Francisco, Cal. Wines. No. 84,179; Nov. 14; Gaz. vol. 172; p. 545.
Gustav A. Moebs & Co., Detroit, Mich. Cigars. No. 82,906; Aug. 1; Gaz. vol. 169; p. 200.
Guth, Charles G., Baltimore, Md. Chocolates and bonbons. No. 81,697; May 2; Gaz. vol. 166; p. 246.
Guth, Charles G., Baltimore, Md. Chocolates and bonbons. No. 81,802; May 9; Gaz. vol. 166; p. 508.
Guthman, Solomons & Co., New York, N. Y. Hair-nets. No. 81,457; Apr. 11; Gaz. vol. 165; p. 470.
Guthman, Solomons & Co., New York, N. Y. Hair-nets. No. 84,481; Dec. 19; Gaz. vol. 173; p. 858.
Gypsinite Co., The, New York, N. Y. Fireproofed studding. No. 82,978; Aug. 8; Gaz. vol. 169; p. 446.
Gyrex Mfg. Co., New York, N. Y. Gas-mixers and valve-lifters. No. 84,095; Nov. 7; Gaz. vol. 172; p. 255.
H. Hackfeld & Co., Ltd., Honolulu, Hawaii. Gin. No. 82,079; May 30; Gaz. vol. 166; p. 1278.
H. A. Metz & Co., New York, N. Y. Remedy for syphilis, &c. Nos. 83,590–1; Sept. 26; Gaz. vol. 170; p. 924.
H. B. Claflin Company, New York, N. Y. Batiste. No. 81,252; Mar. 21; Gaz. vol. 164; p. 735.
H. B. Claflin Company, New York, N. Y. Yarn. No. 83,321; Sept. 5; Gaz. vol. 170; p. 239.
H. B. Claflin Company, New York, N. Y. Hosiery. No. 83,897; Oct. 24; Gaz. vol. 171; p. 979.
H. B. Wiggin's Sons Company, Bloomfield, N. J. Book-cover cloths. No. 83,458; Sept. 12; Gaz. vol. 170; p. 479.
H. D. Lee Mercantile Company, The, Salina, Kans. Certain named medicines and chemicals. No. 81,279; Mar. 21; Gaz. vol. 164; p. 736.
H. D. Lee Mercantile Company, Salina, Kans. Certain food. No. 81,727; May 2; Gaz. vol. 166; p. 247.
H. J. Keith Co., Boston, Mass. Canned and dried eggs. No. 84,641; Dec. 26; Gaz. vol. 173; p. 1075.
H. L. Griesedieck Distilling Co., St. Louis, Mo. Blended whisky. No. 82,078; May 30; Gaz. vol. 166; p. 1278.
H. L. Halliday Milling Company, Cairo, Ill. Wheat-flour. Nos. 80,652–4; Jan. 17; Gaz. vol. 162; p. 779.
H. & M. Hair Tonic Company, The, Seattle, Wash. Hair-tonics. No. 80,715; Jan. 24; Gaz. vol. 162; p. 995.
H. P. Cannon & Son, Inc., Bridgeville, Del. Canned tomatoes. No. 84,592; Dec. 26; Gaz. vol. 173; p. 1074.
H. R. Hall Co., Chicago, Ill. Coffee, tea, spices, flavoring extracts and essences. No. 82,227; June 13; Gaz. vol. 167; p. 510.
H & W Company, Newark, N. J. Corsets, corset-waists, brassières, and underwaists. No. 81,698; May 2; Gaz. vol. 166; p. 246.
H. W. Johns-Manville Co., New York, N. Y. Brake-band. lining. No. 80,536; Jan. 3; Gaz. vol. 162; p. 266.
H. W. Johns-Manville Company, New York, N. Y. Felt pipe-covering. No. 84,102; Nov. 7; Gaz. vol. 172; p. 256.
Haas & Sons, Geo., San Francisco, Cal. Chocolate candy. No. 82,434; June 27; Gaz. vol. 167; p. 978.
Haberlé, Gustav, Hamburg, Germany. Food for fishes. No. 82,226; June 13; Gaz. vol. 167; p. 510.
Habirshaw Wire Company, Yonkers and New York, N. Y. Covered wires, cables, and cores for electrical purposes. No. 83,577; Sept. 26; Gaz. vol. 170; p. 924.
Haddad, Ameen F., New York, N. Y. Perfumery. No. 81,699; May 2; Gaz. vol. 166; p. 246.
Haden, John B., Galveston, Tex. Eye-cups. No. 82,599; July 11; Gaz. vol. 168; p. 520.
Hadjopulo, Constantine A., New York, N. Y. Coffee. No. 81,608; Apr. 25; Gaz. vol. 165; p. 968.
Haege, Firm of Ludwig, Offenbach-on-the-Main, Germany. Vessels having double walls. No. 83,331; Sept. 5; Gaz. vol. 170; p. 239.
Hagan & Dodd Co., Atlanta, Ga. Soda-water syrup and a carbonated flavored tonic beverage. No. 84,482; Dec. 19; Gaz. vol. 173; p. 858.
Hagen, Arthur, West Orange, N. J., and New York, N. Y. Solution of silver. No. 80,916; Feb. 14; Gaz. vol. 163; p. 478.
Haines City Citrus Growers' Association, Haines, Fla. Oranges. No. 81,991; May 23; Gaz. vol. 166; p. 982.
Haines & Slocum Co., Rochester, N. Y. Chewing-gum. No. 83,831; Oct. 17; Gaz. vol. 171; p. 740.
Haldens Tændstikfabrik, Fredrikshald, Norway. Matches. Nos. 81,700–1; May 2; Gaz. vol. 166; p. 246.
Hall, Franklin, Philadelphia, Pa. Gold for china belleek and glass. No. 82,511; July 4; Gaz. vol. 168; p. 245.
Hall, Fred E., Providence, R. I. Solutions for exterminating insects and vermin and for disinfecting and deodorizing. No. 81,609; Apr. 25; Gaz. vol. 165; p. 968.
Hall, James W., Chicago, Ill. Road-bonding materials. No. 81,074; Feb. 28; Gaz. vol. 163; p. 973.
Hall & Lyon Co., Providence, R. I. Brushes. No. 81,702; May 2; Gaz. vol. 166; p. 246.
Hall & Lyon Co., Providence, R. I. Tobacco-pipes. No. 81,703; May 2; Gaz. vol. 166; p. 246.
Hall & Lyon Co., Providence, R. I. Certain writing materials. No. 83,905; Oct. 24; Gaz. vol. 171; p. 979.
Hallet & Davis Piano Co., Portland, Me., and Boston, Mass. Pianos containing mechanism for operating the same. No. 83,832; Oct. 17; Gaz. vol. 171; p. 740.
Halligan Coffee Co., Davenport, Iowa. Coffee. No. 81,001; Feb. 21; Gaz. vol. 163; p. 724.
Halligan Coffee Co., Davenport, Iowa. Certain foods. No. 81,458; Apr. 11; Gaz. vol. 165; p. 470.
Halligan Coffee Co., Davenport, Iowa. Coffee. No. 82,228; June 13; Gaz. vol. 167; p. 510.
Hamilton Woolen Company, Boston, Mass. Woolen and cotton piece goods. No. 83,735; Oct. 10; Gaz. vol. 171; p. 478.
Hammond & Son, C., Ogontz, Pa. Hammers, hatchets, axes, and cold-chisels. No. 84,626; Dec. 26; Gaz. vol. 173; p. 1075.
Hampton Roads Paper Co., Norfolk, Va. Writing paper, pads, and tablets. No. 84,180; Nov. 14; Gaz. vol. 172; p. 545.
Hampton Roads Paper Company, Norfolk, Va. Writing tablets and pads. No. 83,833; Oct. 17; Gaz. vol. 171; p. 740.
Hamstra & Co., H., Grand Rapids, Mich. Cocoa. No. 83,248; Aug. 29; Gaz. vol. 169; p. 1180.
"Handifold" Toilet Paper Company, Leominster, Mass. Toilet-paper. No. 82,512; July 4; Gaz. vol. 168; p. 245.
Hanford, Andrew H., New York, N. Y. A polish for carriages, furniture, and hardwood finishings and floors generally. No. 82,080; May 30; Gaz. vol. 166; p. 1278.
Hanford, Andrew H., New York, N. Y. Polish. No. 84,627; Dec. 26; Gaz. vol. 173; p. 1075.
Hanoka, Nissim S., & Maurice Mishoula, Chicago, Ill. Cigarette-papers. No. 81,075; Feb. 28; Gaz. vol. 163; p. 974.
Hanoka, Nissim S., & Maurice Mishoula, Chicago, Ill. Cigarette-papers. Nos. 80,528–9; Jan. 3; Gaz. vol. 162; p. 265.
Hansen, Charles E., Providence, R. I. Composition white metal. No. 82,790; July 25; Gaz. vol. 168; p. 1028.
Hardwick & Magee Co., Philadelphia, Pa. Woven carpets. No. 83,578; Sept. 26; Gaz. vol. 170; p. 924.
Harper, Martha M., Rochester, N. Y. Hair-tonics. No. 84,096; Nov. 7; Gaz. vol. 172; p. 256.
Harrington & Co., E. B., Los Angeles, Cal. Lotion for the complexion. No. 81,334; Mar. 28; Gaz. vol. 164; p. 971.
Harris & Bro., Robert, Reidsville, N. C. Tobacco. No. 81,144; Mar. 7; Gaz. vol. 164; p. 245.
Harris Emery Company, Des Moines, Iowa. Corsets. No. 81,459; Apr. 11; Gaz. vol. 165; p. 470.
Harris-Lipsitz Company, Dallas, Tex., and New York, N. Y. Men's and boys' clothing. No. 80,917; Feb. 14; Gaz. vol. 163; p. 478.
Harris-Lipsitz Company, Dallas, Tex., and New York, N. Y. Hosiery. No. 83,736; Oct. 10; Gaz. vol. 171; p. 478.
Harris, Thomas A., New York, N. Y. White and colored shirtings. No. 80,918; Feb. 14; Gaz. vol. 163; p. 478.
Harris, Thomas A., Ridgewood, N. J. White and colored shirtings. No. 81,266; Mar. 21; Gaz. vol. 164; p. 735.
Harris, Thomas A., New York, N. Y. Voiles. No. 81,704; May 2; Gaz. vol. 166; p. 246.
Harrison, Williamson R., Massillon, Ohio. Certain machines. No. 84,097; Nov. 7; Gaz. vol. 172; p. 256.
Harry Brothers Manufacturing Company, Dallas, Tex. Certain tanks, troughs, barrels, and cans. No. 81,460; Apr. 11; Gaz. vol. 165; p. 470.
Harry Vissering & Company, Louisville, Ky., and Chicago, Ill. Certain apparatus and parts thereof. No. 80,882; Feb. 7; Gaz. vol. 163; p. 228.
Harshbarger Milling Co., Milton, W. Va. Wheat-flour. No. 81,267; Mar. 21; Gaz. vol. 164; p. 735.
Hart, William S., Hawks Park, Fla. Oranges, lemons, grape-fruit, &c. No. 81,145; Mar. 7; Gaz. vol. 164; p. 245.
Hartford Rubber Works Co., The, Hartford, Conn. Rubber vehicle-tires. No. 81,269; Mar. 21; Gaz. vol. 164; p. 735.

Alphabetical list of registrants of trade-marks—Continued.

Hartig-Becker Plow Company, Evansville, Ind. Plows. Nos. 84,229–30; Nov. 21; Gaz. vol. 172; p. 817.
Hartwig Kantorowicz Actien-Gesellschaft. (See Kantorowicz, Firm of Hartwig, assignor.)
Hartwig Kantorowicz Aktien-Gesellschaft, Posen, Germany. Stomach-bitters. No. 81,875; May 16; Gaz. vol. 166; p. 748.
Hartwig & Vogel Aktiengesellschaft, Dresden, Germany. Cacao, chocolate, and comfit. No. 84,392; Dec. 12; Gaz. vol. 173; p. 579.
Hartzell, Lucy B., Oklahoma, Okla. Washing compound. No. 81,214; Mar. 14; Gaz. vol. 164; p. 503.
Haserot Canneries Company, The, Cleveland, Ohio. Rolled oats, table sauce, catsup, &c. No. 80,656; Jan. 17; Gaz. vol. 162; p. 779.
Haserot Canneries Company, The, Cleveland, Ohio. Fertilizers. No. 80,919; Feb. 14; Gaz. vol. 163; p. 478.
Haserot Canneries Company, The, Cleveland, Ohio. Canned vegetables. No. 81,215; Mar. 14; Gaz. vol. 164; p. 503.
Haserot Canneries Company, The, Cleveland, Ohio. Olives and rolled oats. No. 83,036; Aug. 8; Gaz. vol. 169; p. 447.
Haserot Canneries Company, The, Cleveland, Ohio. Rolled oats, prunes, and dried fruits. No. 84,483; Dec. 19; Gaz. vol. 173; p. 858.
Hashiba, Frank Y., New York, N. Y. Table sauce. No. 83,332; Sept. 5; Gaz. vol. 170; p. 239.
Haskins Bros. & Company, Sioux City, Iowa, and Omaha, Nebr. Soap. No. 83,646; Oct. 3; Gaz. vol. 171; p. 209.
Haskins Brothers and Company, Sioux City, Iowa. Laundry soap. No. 82,325; June 20; Gaz. vol. 167; p. 758.
Haviland, Johann, Waldershoe, France. Porcelain tableware. No. 81,705; May 2; Gaz. vol. 166; p. 246.
Hawk, Egbert B., Bloomington, Ill. Non-alcoholic drink. No. 80,716; Jan. 24; Gaz. vol. 162; p. 995.
Hawk Fish Company, Seattle, Wash. Canned salmon. Nos. 82,979–80; Aug. 8; Gaz. vol. 169; p. 446.
Hawk, Henry C., Battle Creek, Mich. Food made of corn, sugar, and salt. No. 82,436; June 27; Gaz. vol. 167; p. 978.
Hayward, Wm. H., New York, N. Y. Cleansing-powder and soap. No. 82,437; June 27; Gaz. vol. 167; p. 978.
Hayward, Wm. H., New York, N. Y. Certain preparations. No. 82,600; July 11; Gaz. vol. 168; p. 520.
Hayward, Wm. H., New York, N. Y. Peroxid of hydrogen. No. 84,393; Dec. 12; Gaz. vol. 173; p. 579.
Hazard Manufacturing Company, Wilkes-Barre, Pa. Wire rope. No. 82,601; July 11; Gaz. vol. 168; p. 520.
Hazel-Atlas Glass Company, Wheeling, W. Va. Glass bottles and jars. No. 81,527; Apr. 18; Gaz. vol. 165; p. 726.
Healy & Bigelow Inc., New York, N. Y. Dental cream. No. 83,579; Sept. 26; Gaz. vol. 170; p. 924.
Heath, Roger, Shelby, Ohio. Wheat-flour. No. 82,791; July 25; Gaz. vol. 168; p. 1028.
Heath, Spencer, Washington, D. C. Screw-propellers. No. 81,876; May 16; Gaz. vol. 166; p. 748.
Heaton-Peninsular Button Fastener Co., Boston, Mass. Staple-like metallic fasteners. No. 80,920; Feb. 14; Gaz. vol. 163; p. 478.
Heckman, William V. R., Independence, Kans. Washing compound. No. 81,216; Mar. 14; Gaz. vol. 164; p. 503.
Hedden & Eberhardt, New York, N. Y. Certain toilet preparations. No. 81,992; May 23; Gaz. vol. 166; p. 982.
Heekin Spice Company, The, Cincinnati, Ohio. Baking-powder. No. 82,229; June 13; Gaz. vol. 167; p. 510.
Heering, Peter F., Copenhagen, Denmark. Cherry brandy. No. 82,438; June 27; Gaz. vol. 167; p. 978.
Heermann & Co., Hamburg-Billwärder, near Hamburg, Germany. Certain foods. No. 81,706; May 2; Gaz. vol. 166; p. 246.
Heffner Milling Company, The, Circleville, Ohio. Cornmeal. No. 82,513; July 4; Gaz. vol. 168; p. 245.
Heffner Milling Company, The, Circleville, Ohio. Cornmeal. No. 83,834; Oct. 17; Gaz. vol. 171; p. 740.
Hegner Pharmacal Company, Wyoming, Ohio. Antiseptic solution. No. 83,835; Oct. 17; Gaz. vol. 171; p. 740.
Heidelberg, Wolff & Co., New York, N. Y. Overcoats, ulsters, rain and automobile coats. No. 83,154; Aug. 22; Gaz. vol. 169; p. 940.
Heidelsheimer, Irving, Newark, N. J. Certain jewelry and precious-metal ware. No. 83,249; Aug. 29; Gaz. vol. 169; p. 1180.
Heil & Zonen, L. W., Haarlem, Netherlands. Cheese. Nos. 81,270–1; Mar. 21; Gaz. vol. 164; p. 736.
Heinbockel & Co., J. S., Baltimore, Md. Bread. No. 83,333; Sept. 5; Gaz. vol. 170; p. 239.
Heinn Company, The, Milwaukee, Wis. Loose-sheet holders. No. 82,981; Aug. 8; Gaz. vol. 169; p. 446.
Heit-Miller-Lau Co., Fort Wayne, Ind. Candies and nuts. No. 80,779; Jan. 31; Gaz. vol. 162; p. 1180.
Heit-Miller-Lau Co., Fort Wayne, Ind. Chocolate confections. No. 83,067; Aug. 15; Gaz. vol. 169; p. 697.
Heller & Co., B., Chicago, Ill. Food-preservative. No. 84,484; Dec. 19; Gaz. vol. 173; p. 858.
Heller & Company, B., Chicago, Ill. Powder for ice-cream and ices. No. 82,602; July 11; Gaz. vol. 168; p. 520.
Heller & Son, L., New York, N. Y. Sapphires. No. 82,148; June 6; Gaz. vol. 167; p. 237.
Hemmeter Cigar Co., The, Detroit, Mich. Cigars. No. 80,594; Jan. 10; Gaz. vol. 162; p. 533.
Hemmeter Cigar Co., The, Detroit, Mich. Cigars. No. 81,146; Mar. 7; Gaz. vol. 164; p. 246.
Hemming Manufacturing Company, Wallington, N. J. Certain electrical supplies. No. 84,628; Dec. 26; Gaz. vol. 173; p. 1075.
Hemphill Manufacturing Company, The, Central Falls, R. I. Automatic stocking-knitting machines. No. 81,272; Mar. 21; Gaz. vol. 164; p. 736.
Henig, Alexander, Cleveland, Ohio. Remedy for skin diseases. No. 82,230; June 13; Gaz. vol. 167; p. 510.
Henkels, Alb. & E., Langerfeld, Germany, and Bridgeport, Conn. Laces. No. 80,847; Feb. 7; Gaz. vol. 163; p. 227.
Henne & Co., Wm., Brooklyn, N. Y. Ladies' leather boots and shoes. No. 83,155; Aug. 22; Gaz. vol. 169; p. 940.
Henning, Karl, Klosterneuburg, Austria-Hungary. Molding material for dental purposes. Nos. 80,780–1; Jan. 31; Gaz. vol. 162; p. 1180.
Henry, Johnson & Lord, Burlington, Vt. Remedy for consumption, &c. No. 81,707; May 2; Gaz. vol. 166; p. 246.
Henry Muhs Company, The, Passaic, N. J. Compound of cotton-seed oil and oleo-stearin. No. 80,865; Feb. 7; Gaz. vol. 163; p. 228.
Herb, Ferdinand, Superior, Wis. Tooth-powder. No. 80,921; Feb. 14; Gaz. vol. 163; p. 478.
Herbst, Meyer, New York, N. Y. Rye bread. No. 82,885; Aug. 1; Gaz. vol. 169; p. 200.
Herfarth Bros., New Orleans, La. Razors, shears, scissors, and pocket-knives. No. 82,983; Aug. 8; Gaz. vol. 169; p. 446.
Hering, Ardo, Philadelphia, Pa. Certain household and bath-room fixtures. No. 81,708; May 2; Gaz. vol. 166; p. 246.
Herman, Louis, New York, N. Y. Photographic films. No. 83,907; Oct. 24; Gaz. vol. 171; p. 979.
Herman, Rufus, Lock Haven, Pa. Laundry blue and ammonia. No. 80,657; Jan. 17; Gaz. vol. 162; p. 779.
Hermanos, Firm of Chiesa, Rosario, Argentina, and New York, N. Y. Lumber. No. 82,439; June 27; Gaz. vol. 167; p. 978.
Herrington, Lovick P., Waynesboro, Ga. Liver-pills. No. 82,792; July 25; Gaz. vol. 168; p. 1028.
Herruth Core Oil Company, Chicago, Ill. Floor-finishes. No. 84,317; Nov. 28; Gaz. vol. 172; p. 1085.
Hertzberg, Harry, Brooklyn, N. Y. Stoves, heaters, burners, &c. No. 82,984; Aug. 8; Gaz. vol. 169; p. 446.
Heusch, Edouard, Paris, France. Imitation pearls. No. 82,231; June 13; Gaz. vol. 167; p. 510.
Heymann, Charles E., *et al.*, executors. (See Rothschild, Ludwig.)
Heywood Boot & Shoe Company, Worcester, Mass. Leather boots and shoes. No. 82,691; July 18; Gaz. vol. 168; p. 783.
Hibbard, Spencer, Bartlett & Company, Chicago, Ill. Fishing-rods. No. 81,217; Mar. 14; Gaz. vol. 164; p. 503.
Hickman, William A., Pictou, Nova Scotia, Canada. Boats. No. 83,908; Oct. 24; Gaz. vol. 171; p. 979.
Hickok, Frank, Columbus, Ohio. Composition cement flooring. No. 81,461; Apr. 11; Gaz. vol. 165; p. 470.
Higgins, John G., Chattanooga, Tenn. Toilet-combs. No. 81,003; Feb. 21; Gaz. vol. 163; p. 724.
High Rock Knitting Co., Philmont, N. Y. Certain underwear. No. 83,909; Oct. 24; Gaz. vol. 171; p. 979.
Hildreth Varnish Co., New York, N. Y. Certain painters' materials. No. 80,595; Jan. 10; Gaz. vol. 162; p. 533.
Hillerich & Son, Jno. F., Louisville, Ky. Base-ball bats. Nos. 83,408–11; Sept. 12; Gaz. vol. 170; pp. 477–8.
Hillier, Thomas W., Detroit, Mich. Soda-phosphate compound. No. 82,326; June 20; Gaz. vol. 167; p. 758.
Hills Bros., The, San Francisco, Cal. Beverages. No. 82,985; Aug. 8; Gaz. vol. 169; p. 446.
Hills Brothers Company, The, New York, N. Y. Candied peels. No. 81,335; Mar. 28; Gaz. vol. 164; p. 971.
Hills Brothers Company, The, New York, N. Y. Figs. No. 82,982; Aug. 8; Gaz. vol. 169; p. 446.
Hills Brothers Company, The, New York, N. Y. Citron and cocoanut. No. 83,837; Oct. 17; Gaz. vol. 171; p. 740.
Hills Brothers Company, The, New York, N. Y. Figs. No. 84,629; Dec. 26; Gaz. vol. 173; p. 1075.
Hines, Normon F., Washington, D. C. Glue, mucilage, and adhesive paste. No. 82,440; June 27; Gaz. vol. 167; p. 978.
Hirsch & Spitz Mfg. Co., Atlanta, Ga. Mattresses and beds. No. 81,005; Feb. 21; Gaz. vol. 163; p. 724.
Hirsch-Wolff Millinery Co., Kansas City, Mo. Ladies' hats. No. 82,441; June 27; Gaz. vol. 167; p. 978.
Hirth-Krause Co., Grand Rapids, Mich. Women's leather shoes. No. 81,528; Apr. 18; Gaz. vol. 165; p. 726.
Hitchcock-Hill Company, Chicago, Ill. Washing compound. No. 81,392; Apr. 4; Gaz. vol. 165; p. 237.
Hitchcock-Stockbridge Co., Haverhill, Mass. Leather and felt shoes. No. 84,485; Dec. 19; Gaz. vol. 173; p. 858.
Hixon, A. C., Guthrie, Okla. Hair-unguent. No. 81,803; May 9; Gaz. vol. 166; p. 508.
Hixson, Henry H., Chicago, Ill. Tea, coffee, and spices. No. 80,596; Jan. 10; Gaz. vol. 162; p. 533.
Hoag, Charles H., New York, N. Y. Toilet soap. No. 81,336; Mar. 28; Gaz. vol. 164; p. 971.

Alphabetical list of registrants of trade-marks—Continued.

Hoban, Michael T., Washington, D. C. Candies. No. 81,804; May 9; Gaz. vol. 166; p. 508.
Hobart M. Cable Company, Laporte, Ind. Pianos and organs. No. 82,868; Aug. 1; Gaz. vol. 169; p. 199.
Hockaday Paint Co., The, Wichita, Kans. Floor-wax. No. 81,709; May 2; Gaz. vol. 166; p. 246.
Hockaday Paint Company, The, Wichita, Kans. Varnish. No. 83,647; Oct. 3; Gaz. vol. 171; p. 209.
Hockaday Paint Company, The, Wichita, Kans. Varnish, varnish-stain, and paint. No. 83,648; Oct. 3; Gaz. vol. 171; p. 209.
Hockaday, Robert, Baltimore, Md. Textile belting. No. 83,737; Oct. 10; Gaz. vol. 171; p. 478.
Hoder, Ralph, Scranton, Pa. Hair-tonic. No. 82,603; July 11; Gaz. vol. 168; p. 520.
Hoelscher, Julius H., Chicago, Ill. Waterproofing and preservative oil. No. 82,081; May 30; Gaz. vol. 166; p. 1278.
Hoey Company, B. D., Oswego, N. Y. Chocolates. No. 82,328; June 20; Gaz. vol. 167; p. 758.
Hoffmann-La Roche Chemical Works, The, New York, N. Y. Remedy for phthisis. No. 80,717; Jan. 24; Gaz. vol. 162; p. 995.
Hoffmann-La Roche Chemical Works, New York, N. Y. Medicinal tonic. No. 80,718; Jan. 24; Gaz. vol. 162; p. 995.
Hoffmann-La Roche Chemical Works, New York, N. Y. Antiseptical product. No. 80,719; Jan. 24; Gaz. vol. 162; p. 995.
Hoffmann-La Roche Chemical Works, New York, N. Y. Remedy for diseases of the heart. No. 83,738; Oct. 10; Gaz. vol. 171; p. 478.
Hoffstot, William H., Kansas City, Mo. Kerosene-lamps. No. 82,514; July 4; Gaz. vol. 168; p. 245.
Hofmann, George H., New York, N. Y. Nozzles. No. 84,231; Nov. 21; Gaz. vol. 172; p. 817.
Hoge, Herman H., New Knoxville, Ohio. Seed-separating machines. No. 81,077; Feb. 28; Gaz. vol. 163; p. 974.
Holbrook Grocery Co., The, Keene, Woodsville, and Nashua, N. H. Grass-seed. No. 81,273; Mar. 21; Gaz. vol. 164; p. 736.
Holbrooks Limited, Birmingham and Stourport, England. Pickles. No. 81,658; Apr. 25; Gaz. vol. 165; p. 969.
Holder, John I., New York, N. Y. Hosiery. No. 82,986; Aug. 8; Gaz. vol. 169; p. 446.
Holeproof Hosiery Company, Milwaukee, Wis. Hosiery. No. 82,082; May 30; Gaz. vol. 166; p. 1278.
Holly Lithia Springs Co., Inc., Richmond, Va. Natural spring-water. No. 83,491; Sept. 19; Gaz. vol. 170; p. 699.
Holsinger Bros., Rosedale, Kans. Raspberry-plants. No. 84,394; Dec. 12; Gaz. vol. 173; p. 579.
Holstein, Adolph M., Syracuse, N. Y. Casket handles and ornaments. No. 83,911; Oct. 24; Gaz. vol. 171; p. 980.
Holt & Adams, New York, N. Y. Certain dental, medical, and surgical appliances. No. 81,078; Feb. 28; Gaz. vol. 163; p. 974.
Holt & Company, New York, N. Y. Cornmeal and wheat-flour. No. 81,993; May 23; Gaz. vol. 166; p. 982.
Holton & Adams, New York, N. Y. Brushes. No. 81,710; May 2; Gaz. vol. 166; p. 246.
Holton & Adams, New York, N. Y. Certain brushes and powder-puffs. No. 82,084; May 30; Gaz. vol. 166; p. 1278.
Holzapfels Limited, Newcastle-upon-Tyne, England. Paint and enamels. No. 83,069; Aug. 15; Gaz. vol. 169; p. 697.
Holzapfels Limited, Newcastle-upon-Tyne, England. Anticorrosive and antifouling compositions for ships' bottoms. No. 84,630; Dec. 26; Gaz. vol. 173; p. 1075.
Home Fertilizer & Chemical Company, Baltimore, Md. Fertilizers. No. 81,275; Mar. 21; Gaz. vol. 164; p. 736.
Home Fertilizer & Chemical Company, Baltimore, Md. Fertilizers. No. 81,529; Apr. 18; Gaz. vol. 165; p. 726.
Homeland Citrus Growers Association, Homeland, Fla. Fresh fruits, oranges, lemons, tangerines, &c. No. 82,329; June 20; Gaz. vol. 167; p. 758.
Honecker, Charles A., Chicago, Ill. Card-index cabinets. No. 83,912; Oct. 24; Gaz. vol. 171; p. 980.
Honesdale Shoe Co. Inc., Honesdale, Pa. Boots, shoes, and oxfords. No. 81,337; Mar. 28; Gaz. vol. 164; p. 971.
Hood Rubber Co., East Watertown and Boston, Mass. Rubber boots, shoes, and overshoes. No. 81,079; Feb. 28; Gaz. vol. 163; p. 974.
Hood Rubber Co., Boston, Mass. Rubber boots and shoes. No. 81,218; Mar. 14; Gaz. vol. 164; p. 503.
Hood Rubber Co., East Watertown and Boston, Mass. Rubber boots, shoes, overshoes, &c. No. 82,330; June 20; Gaz. vol. 167; p. 758.
Hooey, Edwin D., Milwaukee, Wis. Song-birds. No. 83,252; Aug. 29; Gaz. vol. 169; p. 1180.
Hoover Mfg. Co., The, Avery, Ohio. Potato-harvesting machines, potato diggers, pickers, and sorters. No. 83,581; Sept. 26; Gaz. vol. 170; p. 924.
Hope Company, Providence, R. I. Cotton piece goods. No. 82,233; June 13; Gaz. vol. 167; p. 510.
Hopkins, Wilber S., Chicago, Ill. Olive-oil. No. 83,838; Oct. 17; Gaz. vol. 171; p. 740.
Hoppe, Paul, Leipzig, Germany. Fruit drinks. No. 83,157; Aug. 22; Gaz. vol. 169; p. 940.
Hornbeck, Henry S., New York, N. Y. Automatic piano-playing devices. No. 82,604; July 11; Gaz. vol. 168; p. 520.
Hornby Company, The, New York, N. Y. Candy. No. 82,987; Aug. 8; Gaz. vol. 169; p. 446.
Horowitz, Arthur, Berlin, Germany. Medicinal pills, tablets, and capsules. No. 81,006; Feb. 21; Gaz. vol. 163; p. 724.
Horowitz, Arthur, Berlin, Germany. Preparation containing digitalis and strophanthus. No. 81,807; May 9; Gaz. vol. 166; p. 508.
Horton-Angell Company, The, Attleboro, Mass. Certain jewelry. No. 82,085; May 30; Gaz. vol. 166; p. 1278.
Horton-Angell Company, The, Attleboro, Mass. Link-buttons. No. 82,234; June 13; Gaz. vol. 167; p. 510.
Horton Manufacturing Company, The, Fort Wayne, Ind. Laundry washing-machines. No. 83,253; Aug. 29; Gaz. vol. 169; p. 1180.
Hostetter Company, The, Pittsburgh, Pa. Stomach-bitters. No. 84,232; Nov. 21; Gaz. vol. 172; p. 817.
Howard, John F., Haverhill, Mass. Certain foods. No. 83,254; Aug. 29; Gaz. vol. 169; p. 1180.
Howe Comb Company, The, Leominster, Mass. Certain fancy goods. No. 82,150; June 6; Gaz. vol. 167; p. 237.
Howe & French, Boston, Mass. Lamps, stoves, burners, and incandescent mantles. No. 83,412; Sept. 12; Gaz. vol. 170; p. 478.
Howenstine-Kramer Co., Massillon, Ohio. Petticoats. No. 81,276; Mar. 21; Gaz. vol. 164; p. 736.
Hoyt, Arthur S., New York, N. Y. Candies. No. 82,793; July 25; Gaz. vol. 168; p. 1028.
Hoyt Metal Company, St. Louis, Mo. Babbitt metal. No. 80,720; Jan. 24; Gaz. vol. 162; p. 995.
Hubbard, James H., Denver, Colo. Remedy for diseases of the throat and lungs. No. 84,318; Nov. 28; Gaz. vol. 172; p. 1085.
Hubbard Milling Company, Mankato, Minn. Wheat-flour. No. 82,516; July 4; Gaz. vol. 168; p. 245.
Hubbard Milling Company, Mankato, Minn. Wheat-flour. No. 83,650; Oct. 3; Gaz. vol. 171; p. 209.
Hubbart, James E., Seattle, Wash. Salmon-eggs for fish-bait. No. 82,087; May 30; Gaz. vol. 166; p. 1278.
Hudson, Charles H., Baltimore, Md. Remedy for neuralgia and headache. No. 81,393; Apr. 4; Gaz. vol. 165; p. 237.
Hudson Condensed Milk Co., New York, N. Y. Condensed milk. No. 80,923; Feb. 14; Gaz. vol. 163; p. 478.
Hudson & Thurber Co., Minneapolis, Minn. Hard lubricating-oil. No. 81,007; Feb. 21; Gaz. vol. 163; p. 724.
Hugh McLean Lumber Company, Buffalo, N. Y. Sawed and hewed timber. No. 82,997; Aug. 8; Gaz. vol. 169; p. 446.
Hugh McLean Lumber Company, Buffalo, N. Y. Timber, logs, and lumber. No. 83,424; Sept. 12; Gaz. vol. 170; p. 478.
Hughes, George W., Birmingham, England. Steel pens. No. 81,147; Mar. 7; Gaz. vol. 164; p. 246.
Hughes, Harry H., Nashville, Tenn. Stock and poultry food. No. 83,913; Oct. 24; Gaz. vol. 171; p. 980.
Hughes, Harry H., Nashville, Tenn. Stock food. No. 84,003; Oct. 31; Gaz. vol. 171; p. 1253.
Hughes, William G., Downey, Cal. Bitters, medicinal tonics, and ointments. No. 84,632; Dec. 26; Gaz. vol. 173; p. 1075.
Hugro Manufacturing Co., The, Chicago, Ill. Vacuum-cleaners. No. 83,493; Sept. 19; Gaz. vol. 170; p. 699.
Huiskamp Bro's Co., The, Keokuk, Iowa. Leather boots and shoes. No. 82,088; May 30; Gaz. vol. 166; p. 1278.
Humor Werke G. m. b. H., Berlin, Germany. Leather, metal, and glass polishing creams and fluids. No. 84,486; Dec. 12; Gaz. vol. 173; p. 858.
Hunold, Ernest, Providence, R. I. Razor-strops and razor-strop holders. No. 82,692; July 18; Gaz. vol. 168; p. 783.
Hunt Brothers Company, San Francisco, Cal. Canned fruits. No. 80,782; Jan. 31; Gaz. vol. 162; p. 1180.
Hunt & McCree, New York, N. Y. Arc-lights. No. 83,158; Aug. 22; Gaz. vol. 169; p. 940.
Hurd & Co., George B., New York, N. Y. Writing-paper and envelops. No. 82,988; Aug. 8; Gaz. vol. 169; p. 446.
Hurley, Horace O., Louisville, Ky. Certain medicinal remedy. No. 82,331; June 20; Gaz. vol. 167; p. 758.
Hurst & Company, New York, N. Y. Illustrated books. No. 80,658; Jan. 17; Gaz. vol. 162; p. 779.
Hurst & Company, New York, N. Y. Books of adventure. No. 81,464; Apr. 11; Gaz. vol. 165; p. 470.
Huston, Abraham L., Fostoria, Ohio. Remedies for catarrh and diseases of the liver and stomach. No. 84,235; Nov. 21; Gaz. vol. 172; p. 818.
Hutchins, Samuel A., Winston Salem, N. C. Hair-tonics. No. 84,319; Nov. 28; Gaz. vol. 172; p. 1085.
Hutchinson, Hollingworth & Co. L'd, Dobcross, England. Looms for weaving. No. 83,494; Sept. 19; Gaz. vol. 170; p. 700.
Hutchinson, Robert H., Yonkers, N. Y. Tea and blended coffee. No. 81,278; Mar. 21; Gaz. vol. 164; p. 736.
Huyler's, New York, N. Y. Salted peanuts and sweet chocolate. No. 81,148; Mar. 7; Gaz. vol. 164; p. 246.

Alphabetical list of registrants of trade-marks—Continued.

Hydeman and Lassner, New York, N. Y. Veilings, nettings, and malines. No. 80,530; Jan. 3; Gaz. vol. 162; p. 265.
Hydrex Felt & Engineering Company, The, New York, N. Y. Roofing material. No. 81,465; Apr. 11; Gaz. vol. 165; p. 470.
Hydrex Felt & Engineering Company, Portland, Me.; New York, N. Y., and Rahway, N. J. Sound-deadening and insulating felt. No. 82,605; July 11; Gaz. vol. 168; p. 520.
Hydus Chemical Co., Cleveland, Ohio. Breath-deodorizing tablets. No. 84,004; Oct. 31; Gaz. vol. 171; p. 1253.
Hylo Company, Marshalltown, Iowa. Stock-dip, lice-killer, fly-repellant, &c. No. 82,794; July 25; Gaz. vol. 168; p. 1028.
Hymes Brothers Company, New York, N. Y. Olive-oil. No. 81,149; Mar. 7; Gaz. vol. 164; p. 246.
Hynard & Meehan, New York, N. Y. Shirt-waists. No. 82,606; July 11; Gaz. vol. 168; p. 520.
I. B. Kleinert Rubber Company, New York, N. Y. Dress-shields. No. 84,495; Dec. 19; Gaz. vol. 173; p. 858.
I. E. Palmer Co., The, Middletown, Conn. Hammocks. No. 81,740; May 2; Gaz. vol. 166; p. 247.
Ice Cream and Butter Co., The, La Crosse, Wis. Cheese and butter. No. 83,159; Aug. 22; Gaz. vol. 169; p. 940.
Ichthyol-Gesellschaft Cordes, Hermanni & Co., Hamburg, Germany. Sulfur preparations. No. 81,530; Apr. 18; Gaz. vol. 165; p. 726.
Ideal Coffee and Tea Company, St. Louis, Mo. Certain foods. No. 84,320; Nov. 28; Gaz. vol. 172; p. 1085.
Ideal Electric & Manufacturing Co., The, Mansfield, Ohio. Electric motors, generators, dynamos, &c. No. 84,635; Dec. 26; Gaz. vol. 173; p. 1075.
Ideal Light Co., The, Milwaukee, Wis. Incandescent-lamp mantles. No. 81,219; Mar. 14; Gaz. vol. 164; p. 503.
Illinois Canning Company, The, Hoopeston, Ill. Canned corn. No. 83,840; Oct. 17; Gaz. vol. 171; p. 740.
Illinois Canning Company, The, Hoopeston, Ill. Canned corn. No. 84,005; Oct. 31; Gaz. vol. 171; p. 1254.
Illinois Watch Case Co., Elgin, Ill. Watch cases and movements. Nos. 82,235–6: June 13; Gaz. vol. 167; p. 510.
Illinois Watch Case Co., Elgin, Ill. Watch cases and movements. Nos. 82,890–1; Aug. 1; Gaz. vol. 169; p. 200.
Illinois Watch Case Co., Elgin, Ill. Watch cases and movements. Nos. 83,255–6; Aug. 29; Gaz. vol. 169; p. 1180.
Illinois Watch Case Co., Elgin, Ill. Watchcases and watch-movements. No. 83,582; Sept. 26; Gaz. vol. 170; p. 924.
Imperial Automobile Company, Jackson, Mich. Automobiles. No. 82,442; June 27; Gaz. vol. 167; p. 978.
Imperial Bit & Snap Co., Racine, Wis. Certain saddlery hardware goods. No. 83,739; Oct. 10; Gaz. vol. 171; p. 478.
Imperial Glue Company, San Francisco, Cal. Glue. No. 82,237; June 13; Gaz. vol. 167; p. 510.
Imperial Government of Japan, Tokyo, Japan. Cigarettes. Nos. 81,713–21; May 2; Gaz. vol. 166; p. 246.
Imperial Oil & Gas Products Co., Harrisville, W. Va. Carbon gas-black. No. 81,008; Feb. 21; Gaz. vol. 163; p. 724.
Imperial Rubber Co., New York, N. Y. Hose, tubing, belting, &c. Nos. 80,531–2; Jan. 3; Gaz. vol. 162; p. 265.
Imperial Rubber Co., New York, N. Y. Hose, tubing, belting, &c. No. 80,597; Jan. 10; Gaz. vol. 162; p. 533.
Imperial Rubber Co., New York, N. Y. Electrical supplies. No. 80,598; Jan. 10; Gaz. vol. 162; p. 533.
Imperial Rubber Co., New York, N. Y. Certain named electrical goods and incandescent electric lamps. Nos. 83,334–7; Sept. 5; Gaz. vol. 170; pp. 239–40.
Imperial Rubber Co., New York, N. Y. Certain kinds of rubber goods. No. 83,583; Sept. 26; Gaz. vol. 170; p. 924.
Imperial Rubber Co., New York, N. Y. Certain electrical goods. No. 84,636; Dec. 26; Gaz. vol. 173; p. 1075.
Imperial Tobacco Company (of Great Britain and Ireland), Limited, The, Bristol, England. Tobacco-pipes, cigar and cigarette holders. No. 81,531; Apr. 18; Gaz. vol. 165; p. 726.
Imperial Tobacco Company, (of Great Britain and Ireland,) Limited, The, Bristol, England. Tobacco-pipes and cigar and cigarette holders. No. 82,443; June 27; Gaz. vol. 167; p. 978.
Import Packing Company, New York, N. Y. Canned pineapples. No. 84,637; Dec. 26; Gaz. vol. 173; p. 1075.
Incorporated Dentists, New York, N. Y. Tooth paste, powder, &c. No. 82,892; Aug. 1; Gaz. vol. 169; p. 200.
Independent Baking Company, Davenport, Iowa. Biscuit. No. 82,152; June 6; Gaz. vol. 167; p. 237.
Independent Powder Company of Missouri, Joplin, Mo. Blasting caps and batteries, electric exploders, dynamite, &c. No. 83,413; Sept. 12; Gaz. vol. 170; p. 478.
Independent Powder Company of Missouri, Joplin, Mo. Dynamite. No. 83,414; Sept. 12; Gaz. vol. 170; p. 478.
Independent Powder Company of Missouri, Joplin, Mo. Dynamite. No. 83,740; Oct. 10; Gaz. vol. 171; p. 478.
Independent Powder Company of Missouri, Joplin, Mo. Dynamite and powder. No. 83,741; Oct. 10; Gaz. vol. 171; p. 478.
Independent Powder Company of Missouri, Joplin, Mo. Blasting-caps, electric exploders, &c. No. 84,367; Dec. 5; Gaz. vol. 173; p. 283.
India Tea Company, Chicago, Ill. Coffees, teas, cocoa, fruit, &c. No. 82,239; June 13; Gaz. vol. 167; p. 510.
Indiana Chemical Co., The, Gas City, Ind. Medicated plasters, salves, ointments, and liniments. No. 81,722; May 2; Gaz. vol. 166; p. 246.
Indiana Paper Company, Indianapolis, Ind. Writing-paper and envelops. No. 82,517; July 4; Gaz. vol. 168; p. 245.
Indianapolis Corrugating Co., Indianapolis, Ind. Sheet-metal roofing. No. 82,238; June 13; Gaz. vol. 167; p. 510.
Ingram, Cynthia, Quincy, Ill. Yeast. No. 82,089; May 30; Gaz. vol. 166; p. 1278.
Ink, Harry H., Canton, Ohio. Remedy for diseases of the mouth and throat. No. 83,495; Sept. 19; Gaz. vol. 170; p. 700.
Inter-American Drug and Trading Company, The, New York, N. Y. Laxatives and digestives. No. 84,488; Dec. 19; Gaz. vol. 173; p. 858.
International Banana Food Co., Chicago, Ill. Granulated, ground, or pulverized food substance. No. 82,693; July 18; Gaz. vol. 168; p. 783.
International Corset Company, Aurora, Ill. Corsets. No. 81,220; Mar. 14; Gaz. vol. 164; p. 503.
International High Speed Steel Company, New York, N. Y. Hollow and solid bars of steel. No. 83,258; Aug. 29; Gaz. vol. 169; p. 1180.
International Import & Export Co., New York, N. Y. Dried fruits. No. 80,599; Jan. 10; Gaz. vol. 162; p. 533.
International Lubricant Co., San Francisco, Cal. Lubricating and illuminating oil. No. 83,914; Oct. 24; Gaz. vol. 171; p. 980.
International Lubricant Co., San Francisco, Cal. Lubricating and illuminating oil. No. 84,236; Nov. 21; Gaz. vol. 172; p. 818.
International Metal Products Co., Middletown, Ohio. Certain metals and metal castings and forgings. No. 83,915; Oct. 24; Gaz. vol. 171; p. 980.
International Power Co., New York, N. Y., and Providence, R. I. Fire-engines and parts thereof. No. 84,395; Dec. 12; Gaz. vol. 173; p. 579.
Internationale Cacaofabrieken Limited, Amsterdam, Netherlands. Cocoa, chocolate, and cocoa butter. No. 83,257; Aug. 22; Gaz. vol. 169; p. 1180.
Interstate Chemical Co., Jersey City, N. J. Fungicide and insecticide. No. 84,099; Nov. 7; Gaz. vol. 172; p. 256.
Interstate Drug Company, The, Cleveland, Ohio. Medicinal remedy. No. 83,916; Oct. 24; Gaz. vol. 171; p. 980.
Interstate Farmers Exchange, Pocomoke City, Md. Fresh fruits and vegetables. No. 81,009; Feb. 21; Gaz. vol. 163; p. 724.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. No. 82,518; July 4; Gaz. vol. 168; p. 245.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. No. 82,989; Aug. 8; Gaz. vol. 169; p. 446.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. No. 83,070; Aug. 15; Gaz. vol. 169; p. 698.
Iroquois Door Co., Buffalo, N. Y. Certain construction material. No. 83,160; Aug. 22; Gaz. vol. 169; p. 940.
Irvin, Jewell & Vinson Company, The, Dayton, Ohio. Mixed paints. No. 80,925; Feb. 14; Gaz. vol. 163; p. 478.
Isaac Harter Milling Company, The, Toledo and Fostoria, Ohio. Wheat-flour. No. 81,268; Mar. 21; Gaz. vol. 164; p. 735.
Isaac, Isidore, New York, N. Y. Cravats. No. 84,489; Dec. 19; Gaz. vol. 173; p. 858.
Isgrig Coal & Ice Company, Indianapolis, Ind. Ice. No. 84,396; Dec. 12; Gaz. vol. 173; p. 579.
"Itala" Fabrica di Automobili, Turin, Italy. Automobiles. No. 84,490; Dec. 19; Gaz. vol. 173; p. 858.
Iver Johnson Sporting Goods Co., Boston, Mass. Bicycles. No. 83,742; Oct. 10; Gaz. vol. 171; p. 478.
Ivory Wax Company, Hartford, Conn. Ironing-wax. No. 84,397; Dec. 12; Gaz. vol. 173; p. 579.
J. Allen Smith & Company, Knoxville, Tenn. Wheat-flour. No. 81,174; Mar. 7; Gaz. vol. 164; p. 246.
J. Allen Smith & Company, Knoxville, Tenn. Wheat-flour. No. 82,025; May 23; Gaz. vol. 166; p. 983.
J. Baalmann Co. Inc., San Francisco, Cal. Preparations for relief of gas in the stomach and bowels. No. 83,978; Oct. 31; Gaz. vol. 171; p. 1253.
J. Garbáty-Rosenthal, Cigaretten-Fabrik J. Garbáty, Pankow-Berlin, Germany. Cigars, cigarettes, tobacco, and snuff. No. 82,428; June 27; Gaz. vol. 167; p. 978.
J. Hungerford Smith Co., Rochester, N. Y. Preserved fruits. No. 81,753; May 2; Gaz. vol. 166; p. 247.
J. Millhoff & Co. Limited, London, England. Cigarettes. No. 81,158; Mar. 7; Gaz. vol. 164; p. 246.
J. Zinsmeister & Sons, Louisville, Ky. Coffee. No. 83,198; Aug. 22; Gaz. vol. 169; p. 941.
J. A. Wright & Co., Keene, N. H. Silver and metal polish. No. 83,462; Sept. 12; Gaz. vol. 170; p. 479.

Alphabetical list of registrants of trade-marks—Continued.

J. B. King & Co., New York, N. Y. Certain building materials. No. 80,660; Jan. 17; Gaz. vol. 162; p. 779.
J. B. King & Co., New York, N. Y. Plaster compounds and plaster of Paris. No. 80,661; Jan. 17; Gaz. vol. 162; p. 779.
J. B. King & Co., New York, N. Y. Certain building materials. No. 80,662; Jan. 17; Gaz. vol. 162; p. 779.
J. B. Williams Company, The, Glastonbury, Conn. Soap. No. 84,560; Dec. 19; Gaz. vol. 173; p. 860.
J. B. Williams Company, The, Glastonbury, Conn. Toilet powders. No. 84,709; Dec. 26; Gaz. vol. 173; p. 1077.
J. C. Blair Company Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 80,510; Jan. 3; Gaz. vol. 162; p. 265.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 82,131; June 6; Gaz. vol. 167; p. 237.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 82,294; June 20; Gaz. vol. 167; p. 757.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. Nos. 82,404–6; June 27; Gaz. vol. 167; p. 977.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 82,494; July 4; Gaz. vol. 168; p. 245.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 82,675; July 18; Gaz. vol. 168; p. 783.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 82,752; July 25; Gaz. vol. 168; p. 1027.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. Nos. 82,864–6; Aug. 1; Gaz. vol. 169; p. 199.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 82,956; Aug. 8; Gaz. vol. 169; p. 445.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. Nos. 83,042–3; Aug. 15; Gaz. vol. 169; p. 697.
J. C. Blair Company, Huntingdon, Pa. Paper, envelops, tablets, and blank books. No. 83,213; Aug. 29; Gaz. vol. 169; p. 1179.
J. C. Blair Company, Huntingdon, Pa. Certain kinds of paper. Nos. 83,545–51; Sept. 26; Gaz. vol. 170; p. 923.
J. C. Hirschman Company, The, Indianapolis, Ind. Cushions, pillows, and mattresses. No. 82,327; June 20; Gaz. vol. 167; p. 758.
J. D. Riedel Aktien Gesellschaft, Berlin, Germany. Remedies for certain diseases. No. 81,482; Apr. 11; Gaz. vol. 165; p. 470.
J. F. Conrad Grocer Co., St. Louis, Mo. Whisky. No. 82,305; June 20; Gaz. vol. 167; p. 757.
J. F. Humphreys & Co., Bloomington, Ill. Certain foods. No. 81,277; Mar. 21; Gaz. vol. 164; p. 736.
J. F. Tapley Company, New York, N. Y. Certain named books. No. 82,378; June 20; Gaz. vol. 167; p. 760.
J. & G. Butler Co., Columbus, Ohio. Olive-oil. No. 84,377; Dec. 12; Gaz. vol. 173; p. 579.
J. & G. Cox, Limited, Edinburgh, Scotland. Glues. No. 82,423; June 27; Gaz. vol. 167; p. 978.
J. G. Davis Co., Rochester, N. Y. Wheat-flour. No. 80,833; Feb. 7; Gaz. vol. 163; p. 227.
J. G. McDonald Chocolate Company, Salt Lake City, Utah. Cocoa. No. 81,088; Feb. 28; Gaz. vol. 163; p. 974.
J. H. Hoffecker Canning Company, Smyrna, Del. Canned fruits and vegetables. No. 80,922; Feb. 14; Gaz. vol. 163; p. 478.
J. H. Merrill Co., Ottumwa, Creston, and Red Oak, Iowa. Certain canned goods and roasted coffee. No. 82,343; June 20; Gaz. vol. 167; p. 758.
J. H. Williams & Co., Brooklyn, N. Y. Wrenches. No. 81,115; Feb. 28; Gaz. vol. 163; p. 975.
J. H. Zeilin & Company, Inc., Philadelphia, Pa. Remedy for certain ailments. No. 84,562; Dec. 19; Gaz. vol. 173; p. 860.
J. I. Case Plow Works, Racine, Wis. Certain machinery and parts thereof. No. 83,220; Aug. 29; Gaz. vol. 169; p. 1179.
J. L. Kraft & Bros. Company, Chicago, Ill. Pimento and potted cheese. No. 81,222; Mar. 14; Gaz. vol. 164; p. 504.
J. L. Pease Co., Jeffersonville, Ind. Columns. No. 81,820; May 9; Gaz. vol. 166; p. 508.
J. M. Parker Manufacturing Company, Boston, Mass. Laundry-bags. No. 82,168; June 6; Gaz. vol. 167; p. 238.
J. M. Paver Company, Chicago, Ill. Canned fruits and evaporated milk. No. 81,480; Apr. 11; Gaz. vol. 165; p. 470.
J. M. Pitkin & Co., New York, N. Y. Food-flavors and gelatin. No. 83,856; Oct. 17; Gaz. vol. 171; p. 740.
J. S. Burton Medicine Co., Sherman, Tex. Salve, chill-tonic, and toilet powder. No. 82,046; May 30; Gaz. vol. 166; p. 1277.
J. S. Gedney Pickle Company, The, Waterville, Minn. Canned vegetables, pickles, and condiments. No. 84,226; Nov. 21; Gaz. vol. 172; p. 817.
J. S. Shields & Co., New York, N. Y. Suits and overcoats. No. 84,538; Dec. 19; Gaz. vol. 173; p. 859.
Jackson, Ernest H., New York, N. Y. Game. No. 80,849; Feb. 7; Gaz. vol. 163; p. 227.
Jacob & Allison, Chas. W., New York, N. Y. Glycerin substitute. No. 83,917; Oct. 24; Gaz. vol. 171; p. 980.
Jacob Strohauer & Sons Co., Caro, Mich. Liniment. No. 81,642; Apr. 25; Gaz. vol. 165; p. 969.
Jacob Strohauer & Sons' Co., Caro, Mich. Veterinary medicine. No. 82,376; June 20; Gaz. vol. 167; p. 759.
Jaeger-Freyeisen, Robert, Frankfort-on-the-Main, Germany. Still and champagne wine. No. 82,795; July 25; Gaz. vol. 168; p. 1028.
Jaeger, William C., Philadelphia, Pa. Remedy for certain ailments. No. 84,491; Dec. 19; Gaz. vol. 173; p. 858.
Jaffe, Arthur, Berlin, Germany. Hemoglobiniferous preparations. No. 80,534; Jan. 3; Gaz. vol. 162; p. 265.
Jalkoff Bros., New York, N. Y. Fur wearing-apparel. No. 81,879; May 16; Gaz. vol. 166; p. 748.
James R. Crompton & Brothers, Limited, London and near Bury, England. India paper. No. 84,169; Nov. 14; Gaz. vol. 172; p. 545.
Jameson, Walter D., New York, N. Y. Dried fruits. No. 84,101; Nov. 7; Gaz. vol. 172; p. 256.
Jamestown Lounge Co., Jamestown, N. Y. Certain furniture. No. 82,090; May 30; Gaz. vol. 166; p. 1278.
Janesville Machine Company, The, Janesville, Wis. Certain machinery and parts thereof. No. 82,990; Aug. 8; Gaz. vol. 169; p. 446.
Jap-Blo Chemical Co., Philadelphia, Pa. Inhalers. No. 83,415; Sept. 12; Gaz. vol. 170; p. 478.
Jas. H. Forbes Tea & Coffee Company, St. Louis, Mo. Coffee. No. 81,450; Apr. 11; Gaz. vol. 165; p. 469.
Jas. H. Forbes Tea & Coffee Company, St. Louis, Mo. Coffee, spices, and food-flavoring extracts. No. 82,591; July 11; Gaz. vol. 168; p. 520.
Jaynes Drug Company, Boston, Mass. Cigars. No. 82,153; June 6; Gaz. vol. 167; p. 237.
Jaynes Drug Company, Boston, Mass. Candies. No. 82,519; July 4; Gaz. vol. 168; p. 245.
Jefferson Glass Co., The, Follansbee, W. Va. Lamp globes and shades made of glass. No. 82,091; May 30; Gaz. vol. 166; p. 1278.
Jefferson Glass Co., The, Follansbee, W. Va. Table and ornamental glassware. No. 82,796; July 25; Gaz. vol. 168; p. 1029.
Jeffrey Manufacturing Company, The, Columbus, Ohio. Mining-machines. No. 84,006; Oct. 31; Gaz. vol. 171; p. 1254.
Jensen, Broder L., Lake City, Colo. Poison for prairie-dogs. No. 84,638; Dec. 26; Gaz. vol. 173; p. 1075.
Jersey-Creme Co., Fort Worth, Tex. Tonic beverage. No. 82,444; June 27; Gaz. vol. 167; p. 978.
Jett & Wood Gro. Co., Wichita, Kans. Coffee. No. 83,842; Oct. 17; Gaz. vol. 171; p. 740.
Jett & Wood Grocer Co., Wichita, Kans. Canned fruits and vegetables, rice, and coffee. No. 83,841; Oct. 17; Gaz. vol. 171; p. 740.
Jno. Gerber Co., The, Memphis, Tenn. Certain clothing. No. 81,798; May 9; Gaz. vol. 166; p. 507.
Johansson, Gustaf, New York, N. Y. Piano bass-dampers. No. 83,259; Aug. 29; Gaz. vol. 169; p. 1180.
John A. Roeblings Sons Co., Trenton, N. J. Wire rope. No. 81,746; May 2; Gaz. vol. 166; p. 247.
John Adams Thayer Corporation, New York, N. Y. Monthly magazine. No. 83,868; Oct. 17; Gaz. vol. 171; p. 741.
John Blocki & Son, Chicago, Ill. Perfumery, toilet water, and sachets. Nos. 82,566–7; July 11; Gaz. vol. 168; p. 519.
John Boyle & Co., Inc., New York, N. Y. Filter-cloths. No. 83,134; Aug. 22; Gaz. vol. 169; p. 939.
John Brown & Co., Limited, Sheffield, England. Certain machinery. No. 82,755; July 25; Gaz. vol. 168; p. 1027.
John C. Dolph Co., Long Island City, N. Y. Insulating varnishes and compounds. No. 81,510; Apr. 18; Gaz. vol. 165; p. 725.
John C. Jewett Mfg. Co., The, Buffalo, N. Y. Refrigerators. No. 80,850; Feb. 7; Gaz. vol. 163; p. 227.
John C. Moomaw Co. Inc., Cloverdale, Va. Canned fruits and vegetables. No. 82,011; May 23; Gaz. vol. 166; p. 983.
John Davenport & Company, New York, N. Y. Pocket-books. No. 81,509; Apr. 18; Gaz. vol. 165; p. 725.
John F. Jelke Company, Chicago, Ill. Oleomargarin. Nos. 81,150–2; Mar. 7; Gaz. vol. 164; p. 246.
John F. White Company, Mount Morris, N. Y. Canned fruits. No. 83,033; Aug. 8; Gaz. vol. 169; p. 447.
John Gosnell & Co. Ltd., London, England. Perfumed soap. No. 81,141; Mar. 7; Gaz. vol. 164; p. 245.
John Gosnell & Co. Ltd., London, England. Perfumery, toilet waters, and lotions, &c. No. 81,142; Mar. 7; Gaz. vol. 164; p. 245.
John H. Cross Company, Cambridge, Mass. Boots and shoes. No. 82,763; July 25; Gaz. vol. 168; p. 1027.
John H. Fitch Co., The, Youngstown, Ohio. Canned fruits, vegetables, hominy, &c. No. 82,973; Aug. 8; Gaz. vol. 169; p. 445.
John Haig & Co., Limited, Markinch, Scotland. Whisky. No. 82,435; June 27; Gaz. vol. 167; p. 978.
John Harvey and Sons, Limited, Bristol, England. Port-wine. No. 83,490; Sept. 19; Gaz. vol. 170; p. 699.

Alphabetical list of registrants of trade-marks—Continued.

John Hoberg Co., Green Bay, Wis. Toilet-paper. Nos. 82,886–8; Aug. 1; Gaz. vol. 169; p. 200.
John J. Denton Limited, Liverpool, England. Knives, razors, razor-blades, and scissors. No. 81,328; Mar. 28; Gaz. vol. 164; p. 971.
John Mackintosh, Limited, Halifax, England. Toffee. No. 82,703; July 18; Gaz. vol. 168; p. 784.
John S. Naylor Company, The, Wheeling, W. Va. Certain goods. No. 84,659; Dec. 26; Gaz. vol. 173; p. 1075.
John S. Talmage Company Limited, New Orleans, La. Rice. No. 83,529; Sept. 19; Gaz. vol. 170; p. 701.
John Stember and Co., New York, N. Y. Hand-bags, wallets, purses, and pocket-books. No. 80,812; Jan. 31; Gaz. vol. 162; p. 1180.
John T. Lewis & Bros. Company, Philadelphia, Pa. Solder and antifriction metal alloys. No. 82,447; June 27; Gaz. vol. 167; p. 978.
John W. Hasburg Company, Chicago, Ill. Ceramic gold. No. 81,002; Feb. 21; Gaz. vol. 163; p. 724.
John Wanamaker, New York, New York, N. Y. Corsets. No. 81,418; Apr. 4; Gaz. vol. 165; p. 238.
Johns-Pratt Company, The, Hartford, Conn. Electric-lamp sockets. No. 81,808; May 9; Gaz. vol. 166; p. 508.
Johnson Biscuit Co., Sioux City, Iowa. Candy. No. 83,161; Aug. 22; Gaz. vol. 169; p. 940.
Johnson Biscuit Company, Sioux City, Iowa. Crackers, cakes, and candy. No. 81,995; May 23; Gaz. vol. 166; p. 982.
Johnson, Frank I., Hartford, Conn. Antiseptic solutions. No. 82,797; July 25; Gaz. vol. 168; p. 1028.
Johnson, George A., Attica, Ind. Remedy for chilblains. No. 82,607; July 11; Gaz. vol. 168; p. 520.
Johnson, Grafton, Greenwood, Ind. Canned vegetables. No. 81,881; May 16; Gaz. vol. 166; p. 748.
Johnson, Grafton, Greenwood, Ind. Canned vegetables. Nos. 81,996–7; May 23; Gaz. vol. 166; p. 982.
Johnson, Grafton, Greenwood, Ind. Canned vegetables. No. 82,332; June 20; Gaz. vol. 167; p. 758.
Johnson, Grafton, Greenwood, Ind. Canned vegetables. No. 82,520; July 4; Gaz. vol. 168; p. 245.
Johnson, James W., Wellesley Hills, Mass. Cleaning and polishing preparation. No. 83,260; Aug. 29; Gaz. vol. 169; p. 1180.
Johnson & Johnson, New Brunswick, N. J. Medicinal plasters. No. 81,339; Mar. 28; Gaz. vol. 164; p. 971.
Johnstone, Robert L., New York, N. Y. Chewing-gum. No. 80,851; Feb. 7; Gaz. vol. 163; p. 227.
Jones, Flora A., Detroit, Mich. Toilet wash for the complexion. No. 81,080; Feb. 28; Gaz. vol. 163; p. 974.
Jones, James A., Sioux City, Iowa. Remedy for diseases of the eyes. No. 80,721; Jan. 24; Gaz. vol. 162; p. 995.
Jones, Roy C., Braddock, Pa. Hats, caps, and helmets. No. 80,852; Feb. 7; Gaz. vol. 163; p. 227.
Jordan Marsh Company, Boston, Mass. Corsets. No. 82,798; July 25; Gaz. vol. 168; p. 1028.
Jos. Middleby, Jr., Inc., Boston, Mass. Certain chemically-prepared goods. No. 84,655; Dec. 26; Gaz. vol. 173; p. 1075.
Joseph A. Goddard Company, Muncie, Ind. Olives. No. 82,321; June 20; Gaz. vol. 167; p. 758.
Joseph Friedlander & Bro., New York, N. Y. Spectacles and eyeglasses. No. 84,617; Dec. 26; Gaz. vol. 173; p. 1074.
Joseph Lay Company, The, Ridgeville, Ind. Brooms. No. 80,929; Feb. 14; Gaz. vol. 163; p. 478.
Joseph P. Schiller Syndicate, Baltimore, Md. Paper dolls No. 82,365; June 20; Gaz. vol. 167; p. 759.
Joseph S. Mack Silk Co., Allentown, Pa. Silk half-hose for gentlemen. No. 81,891; May 16; Gaz. vol. 166; p. 748.
Jost, Carl, Bombay, India. Hot-air fans and parts thereof. No. 80,926; Feb. 14; Gaz. vol. 163; p. 478.
Joyner, V. W., Smithfield, Va. Ham. No. 81,809; May 9; Gaz. vol. 166; p. 508.
Jsola Gesellschaft für Wärme- und Kälteisolierung m. b. H., Berlin, Germany. Vacuum-insulated receptacles. No. 84,100; Nov. 7; Gaz. vol. 172; p. 256.
Judd & Leland Mfg. Co., Clifton Springs, N. Y. Hand-sprayers. Nos. 81,998–9; May 23; Gaz. vol. 166; p. 982.
Julius Schmid, Inc., Astoria, N. Y. Styptic pencils. No. 80,554; Jan. 3; Gaz. vol. 162; p. 266.
Julius Schmid, Inc., Astoria, N. Y. Hair and tooth brushes. No. 81,304; Mar. 21; Gaz. vol. 164; p. 737.
Julius Schmid, Inc., Astoria, N. Y. Rouge. No. 82,112; May 30; Gaz. vol. 166; p. 1279.
Julius Schmid, Inc., Astoria, N. Y. Rice-powder. No. 82,113; May 30; Gaz. vol. 166; p. 1279.
Junebro Aktiebolag, Gottenborg and Jönköping, Sweden. Matches. No. 82,893; Aug. 1; Gaz. vol. 169; p. 200.
Justis, Victor H., Midland, Tex. Blood remedy and insecticide for stock and poultry. No. 83,071; Aug. 15; Gaz. vol. 169; p. 698.
K. k. landespriv. Milly-Kerzen-, Seifen-und Glycerin-Fabrik, von. F. A. Sarg's Sohn & Co., Vienna, and Liesing, near Vienna, Austria-Hungary. Tooth-soap. No. 82,023; May 23; Gaz. vol. 166; p. 983.
K-W Ignition Company, The, Cleveland, Ohio. Spark plugs and coils and magnetos. No. 82,333; June 20; Gaz. vol. 167; p. 758.
Kalina, Frederick, Pittsburg, Pa. Bitter wine. No. 82,445; June 27; Gaz. vol. 167; p. 978.
Kallis, Isidore S., New York, N. Y. Automobile-trunks. No. 84,181; Nov. 14; Gaz. vol. 172; p. 545.
Kampfmueller, Harry A., Louisville, Ky. Digestive and laxative medicine, &c. No. 82,608; July 11; Gaz. vol. 168; p. 520.
Kanaga, Lee R., Marietta, Ohio. Confection. No. 84,639; Dec. 26; Gaz. vol. 173; p. 1075.
Kandarian Bros., Fresno, Cal. Candy. No. 84,007; Oct. 31; Gaz. vol. 171; p. 1254.
Kansas Milling & Export Co., The, Kansas City, Mo. Wheat-flour. Nos. 81,723–4; May 2; Gaz. vol. 166; p. 247.
Kansas Milling & Export Co., The, Kansas City, Mo. Wheat-flour. No. 82,092; May 30; Gaz. vol. 166; p. 1278.
Kantorowicz, Firm of Hartwig, assignor to Hartwig Kantorowicz Actien-Gesellschaft, Posen, Germany. Cordials. No. 83,338; Sept. 5; Gaz. vol. 170; p. 240.
Karith Chemical Company, Chicago, Ill. Cleaning fluids. No. 84,492; Dec. 19; Gaz. vol. 173; p. 858.
Kastor & Bros., Adolph, New York, N. Y. Certain cutlery. No. 80,853; Feb. 7; Gaz. vol. 163; p. 227.
Kathreiners Malzkaffee-Fabriken, Gesellschaft mit beschränkter Haftung, Munich, Germany. Certain malt extracts. Nos. 82,694–6; July 18; Gaz. vol. 168; p. 783.
Katz, Anna S., Chicago, Ill. Remedy for blackheads, pimples, open pores, and yellow skin. No. 84,103; Nov. 7; Gaz. vol. 172; p. 256.
Kaufman, Anton, New York, N. Y. Cigarettes and cigars. No. 82,894; Aug. 1; Gaz. vol. 169; p. 200.
Kaufmann, Berthold, Fuerth, near Nuremberg, Germany. Metal-coated paper. No. 80,927; Feb. 14; Gaz. vol. 163; p. 478.
Kavalier, Firm of Edward, Neu Sazawa, Austria-Hungary. Certain glassware for chemical laboratories. Nos. 83,651–2; Oct. 3; Gaz. vol. 171; p. 209.
Kazmaier, John, Altoona, Pa. Stout and beer. No. 81,532; Apr. 18; Gaz. vol. 165; p. 726.
Keally Co., C. T., Pittsburg, Pa. Fresh fruits. No. 82,000; May 23; Gaz. vol. 166; p. 982.
Keen-O-Phone Company, Philadelphia, Pa. Cabinets for talking-machines. No. 83,920; Oct. 24; Gaz. vol. 171; p. 980.
Keenoh Company, The, Detroit, Mich. Razors and razor-sharpeners. No. 83,072; Aug. 15; Gaz. vol. 169; p. 698.
Keep Brothers, Philadelphia, Pa. Furniture-polish. No. 83,653; Oct. 3; Gaz. vol. 171; p. 209.
Kees Manufacturing Co., F. D., Beatrice, Nebr. Certain hardware. No. 83,919; Oct. 24; Gaz. vol. 171; p. 980.
Kehlor Flour Mills Company, St. Louis, Mo., and East St. Louis, Ill. Wheat-flour. No. 81,493; Apr. 11; Gaz. vol. 165; p. 471.
Kehlor Flour Mills Company, St. Louis, Mo., and East St. Louis, Ill. Wheat-flour. No. 82,992; Aug. 8; Gaz. vol. 169; p. 446.
Kehlor Flour Mills Company, St. Louis, Mo. Wheat-flour. No. 84,008; Oct. 31; Gaz. vol. 171; p. 1254.
Keil, Henry F., New York, N. Y. Electric fans and switches. No. 84,640; Dec. 26; Gaz. vol. 173; p. 1075.
Keitel, Günther, New York, N. Y. Collar-supporters. No. 84,493; Dec. 19; Gaz. vol. 173; p. 858.
Keller Manufacturing Company, Philadelphia, Pa. Vacuum-cleaners. No. 82,242; June 13; Gaz. vol. 167; p. 510.
Kelley, Charles L., Chicago, Ill. Chewing-gum. No. 80,784; Jan. 31; Gaz. vol. 162; p. 1180.
Kelley-Clarke Co., Seattle, Wash. Canned salmon. No. 82,521; July 4; Gaz. vol. 168; p. 246.
Kelley-Clarke Co., Seattle, Wash. Canned salmon. No. 82,609; July 11; Gaz. vol. 168; p. 520.
Kelley-How-Thomson Co., Duluth, Minn. Fishing lines and reels, trolling-spoons, artificial bait. No. 83,584; Sept. 26; Gaz. vol. 170; p. 924.
Kellogg-Birge Co., Keokuk, Iowa. Imitation of maple flavoring extract. No. 83,496; Sept. 12; Gaz. vol. 170; p. 700.
Kelloggs & Miller, Amsterdam, N. Y. Linseed-oil. No. 81,882; May 16; Gaz. vol. 166; p. 748.
Kelloggs & Miller, Amsterdam, N. Y. Flaxseed for medicinal purposes. No. 84,642; Dec. 26; Gaz. vol. 173; p. 1075.
Kellow Rock Drill Syndicate Limited, The, Croesor, Penrhyndeudraeth, England. Certain machinery. No. 81,340; Mar. 28; Gaz. vol. 164; p. 971.
Kelly & Co., Thomas, Boston, Mass. Auto and steamer shawl rugs and blankets. No. 83,743; Oct. 10; Gaz. vol. 171; p. 478.
Kelly & Jones Co., The, Pittsburg, Pa. Pipe-unions. No. 82,334; June 20; Gaz. vol. 167; p. 758.
Kelly-Steinmetz Liquor Co., The, Minneapolis, Minn. Whisky. No. 83,339; Sept. 5; Gaz. vol. 170; p. 240.
Kemp, Lundberg & Beatley, New York, N. Y. Cloth stamped to be embroidered. No. 81,341; Mar. 28; Gaz. vol. 164; p. 971.
Kennedy & Co., P. J., Boston, Mass. Medicinal cordials. No. 83,585; Sept. 26; Gaz. vol. 170; p. 924.
Kennedy, Lawrence F., Minneapolis, Minn. Canoes, row-boats, hunting and pleasure boats. No. 82,895; Aug. 1; Gaz. vol. 169; p. 200.

Alphabetical list of registrants of trade-marks—Continued.

Kent, William R., Englewood, N. J. Ointment, liniment, cough-syrup, &c. No. 81,395; Apr. 4; Gaz. vol. 165; p. 237.
Kentucky Refining Co., Louisville, Ky. Cotton-seed oil. No. 80,785; Jan. 31; Gaz. vol. 162; p. 1180.
Kentucky Refining Co., Louisville, Ky. Cotton-seed oil. No. 80,854; Feb. 7; Gaz. vol. 163; p. 228.
Kentucky Refining Company, Louisville, Ky. Cotton-seed oil. Nos. 81,396–7; Apr. 4; Gaz. vol. 165; p. 237.
Kentucky Refining Co., Louisville, Ky. Cotton-seed oil. No. 81,883; May 16; Gaz. vol. 166; p. 748.
Kentucky Refining Co., Louisville, Ky. Cotton-seed oil. No. 82,001; May 23; Gaz. vol. 166; p. 982.
Kentucky Refining Co., Louisville, Ky. Cotton-seed oil. Nos. 83,497–8; Sept. 19; Gaz. vol. 170; p. 700.
Kentucky Refining Co., Louisville, Ky. Cotton-seed oil. No. 83,654; Oct. 3; Gaz. vol. 171; p. 209.
Kentucky Refining Co., Louisville, Ky. Cotton-seed oil. No. 83,843; Oct. 17; Gaz. vol. 171; p. 740.
Kepner-Scott Shoe Co., The, Orwigsburg, Pa. Leather shoes. No. 83,262; Aug. 29; Gaz. vol. 169; p. 1180.
Kerbaux Company, New York, N. Y. Packing for pipes and steam-boilers. No. 81,153; Mar. 7; Gaz. vol. 164; p. 246.
Kerfoot-Miller and Company, Oklahoma, Okla. Overalls and men's work-shirts. No. 82,896; Aug. 1; Gaz. vol. 169; p. 200.
Kerr & Warren, New York, N. Y. Medicinal tonic. No. 82,610; July 11; Gaz. vol. 168; p. 520.
Kettle River Company, The, Minneapolis, Minn. Pitch filler. No. 84,104; Nov. 7; Gaz. vol. 172; p. 256.
Kettler Brass Mfg. Co., Houston, Tex. Brass and metal polishers. No. 84,182; Nov. 14; Gaz. vol. 172; p. 545.
Keuffel & Esser Company, Hoboken, N. J. Ledger, bond, and drawing paper. No. 80,855; Feb. 7; Gaz. vol. 163; p. 228.
Key City Packing Co., Port Townsend, Wash. Canned salmon. Nos. 82,800–3; July 25; Gaz. vol. 168; p. 1028.
Key West Cigar Factory, The, New York, N. Y. Cigars. No. 81,221; Mar. 14; Gaz. vol. 164; p. 503.
Keyes & Davis, Battle Creek, Mich. Vermin and insect exterminators. No. 82,154; June 6; Gaz. vol. 167; p. 237.
Keystone Carbon Paper Mfg. Co., Franklin, Pa. Carbon-paper. No. 84,368; Dec. 5; Gaz. vol. 173; p. 283.
Keystone Watch Case Company, The. (See Philadelphia Watch Case Co., assignor.)
Keystone Watch Case Company, Philadelphia, Pa. Watches, watch cases and movements. No. 81,081; Feb. 28; Gaz. vol. 163; p. 974.
Keystone Watch Case Company, Philadelphia, Pa. Watches, watch movements and cases, and parts thereof. No. 81,884; May 16; Gaz. vol. 166; p. 748.
Keystone Watch Case Company, The, Philadelphia, Pa. Watches, watch cases and movements, and parts thereof. No. 82,993; Aug. 8; Gaz. vol. 169; p. 446.
Keystone Watch Case Co., The, Philadelphia, Pa. Watches, watch cases and movements. No. 84,494; Dec. 19; Gaz. vol. 173; p. 858.
Kidd, Ellen G., Richmond, Va. Brandied fruits, preserves, and condiments. No. 82,243; June 13; Gaz. vol. 167; p. 510.
Kieley and Mueller, New York, N. Y. Certain valves. No. 84,631; Dec. 26; Gaz. vol. 173; p. 1075.
Kies, Orville D., New York, N. Y. Sewing-machines. No. 81,533; Apr. 18; Gaz. vol. 165; p. 726.
Kimball, C. H. & C. W., New York, N. Y. Fresh apples and potatoes. No. 82,522; July 4; Gaz. vol. 168; p. 246.
Kimber, Emmor, New York, N. Y. Bond-paper. No. 82,897; Aug. 1; Gaz. vol. 169; p. 200.
King Milling Co., Lowell, Mich. Wheat-flour. No. 83,499; Sept. 19; Gaz. vol. 170; p. 700.
King Milling Co., The, Lowell, Mich. Wheat-flour. No. 84,009; Oct. 31; Gaz. vol. 171; p. 1254.
King Stove & Range Co., Sheffield, Ala. Cooking stoves, ranges, and parts therefor. Nos. 80,786–7; Jan. 31; Gaz. vol. 162; p. 1180.
Kings County Raisin & Fruit Company, Armona, Cal. Raisins. No. 82,335; June 20; Gaz. vol. 167; p. 758.
Kish-wau Medicine Company, Rockford, Ill. Pile remedy. No. 83,655; Oct. 3; Gaz. vol. 171; p. 209.
Kjellander, Arvid N., Middletown, N. Y. Liniment. No. 83,921; Oct. 24; Gaz. vol. 171; p. 980.
Klipfel Manufacturing Company, Chicago, Ill. Valves, regulators, traps, &c. No. 80,722; Jan. 24; Gaz. vol. 162; p. 996.
Klotz et Cie., H. et G., Paris, France, and New York, N. Y. Perfumery, perfumed oils, waters, powders, &c. No. 82,898; Aug. 1; Gaz. vol. 169; p. 200.
Knoettner, Fred O., Providence, R. I. Soap. No. 84,010; Oct. 31; Gaz. vol. 171; p. 1254.
Knorpp Candy Company, Brooklyn, N. Y. Candy. No. 82,994; Aug. 8; Gaz. vol. 169; p. 446.
Knott-Van Arnam Manufacturing Co., Fort Wayne, Ind. Flushing-tanks and hinged seats for water-closets. No. 81,082; Feb. 28; Gaz. vol. 163; p. 974.
Knott-Van Arnam Manufacturing Co., Fort Wayne, Ind. Water-closet seats. No. 81,885; May 16; Gaz. vol. 166; p. 748.
Köbenhavns Export Tændstikfabrik (Société Anonyme), Ninove, Belgium. Matches. No. 83,744; Oct. 10; Gaz. vol. 171; p. 478.
Köbenhavns Export Tændstikfabrik, (Société Anonyme,) Ninove, Belgium. Matches. No. 83,844; Oct. 17; Gaz. vol. 171; p. 740.
Köbenhavns Export Tændstikfabrik (Société Anonyme), Ninove, Belgium. Matches. No. 83,922; Oct. 24; Gaz. vol. 171; p. 980.
Koenig Medicine Company, Chicago, Ill. Certain remedies. No. 81,612; Apr. 25; Gaz. vol. 165; p. 968.
Koester Chemical Company, The, Atchison, Kans. Remedy for female diseases. No. 82,003; May 23; Gaz. vol. 166; p. 982.
Kogeos & Poolo, Atlanta, Ga. Hair-tonic. No. 82,804; July 25; Gaz. vol. 168; p. 1029.
Kohn, Max, Cleveland, Ohio. Men's overcoats. No. 82,004; May 23; Gaz. vol. 166; p. 982.
Kohnstamm & Co., H., New York and Brooklyn, N. Y., and Pavonia and Fish House, N. J. Wheat-starch and corn-starch. No. 82,093; May 30; Gaz. vol. 166; p. 1278.
Koken Barbers' Supply Company, St. Louis, Mo. Shampoo preparation. No. 82,094; May 30; Gaz. vol. 166; p. 1278.
Koken Barbers' Supply Company, St. Louis, Mo. Toilet water. No. 83,745; Oct. 10; Gaz. vol. 171; p. 478.
Koken Barbers' Supply Company, St. Louis, Mo. Toilet water. No. 84,322; Nov. 28; Gaz. vol. 172; p. 1085.
Kolberger Anstalten für Exterikultur Wilh. Anhalt Gesellschaft mit beschränkter Haftung, Kolberg, Germany. Mouth-washes, tooth powders and cream. No. 82,336; June 20; Gaz. vol. 167; p. 758.
Kolberger Anstalten für Exterikultur Wilh. Anhalt Gesellschaft mit beschränkter Haftung, Kolberg, Germany. Tooth-brushes. No. 82,337; June 20; Gaz. vol. 167; p. 758.
Konig & Stolz, New York, N. Y. Shirts. No. 84,496; Dec. 19; Gaz. vol. 173; p. 858.
Königliche Porzellan-Manufactur-Direction, Berlin, Germany. Certain goods, and chemical mixtures of fusible materials for the determination of temperature. No. 84,643; Dec. 26; Gaz. vol. 173; p. 1075.
Konoid Chemical Company, New Orleans, La. Antiseptic cones used in the treatment of all catarrhous affections. No. 83,746; Oct. 10; Gaz. vol. 171; p. 478.
Koplin, Geo. E., Winterhaven, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 82,523; July 4; Gaz. vol. 168; p. 246.
Kops Bros., New York, N. Y. Corsets. No. 81,083; Feb. 28; Gaz. vol. 163; p. 974.
Kops Bros., New York, N. Y. Corsets. No. 81,613; Apr. 25; Gaz. vol. 165; p. 968.
Kornfalfa Feed Milling Company, Kansas City, Mo. Poultry food. No. 80,601; Jan. 10; Gaz. vol. 162; p. 534.
Korten Brothers Company, Chicago, Ill. Coffee, tea, spices, cocoa, flavoring extracts, &c. No. 81,811; May 9; Gaz. vol. 166; p. 508.
Koubek, August, Chicago, Ill. Salve. No. 84,237; Nov. 21; Gaz. vol. 172; p. 818.
Krahenbuhl, Arthur O., Chicago, Ill. Syrup beverages. No. 82,612; July 11; Gaz. vol. 168; p. 521.
Krantz Brewing Co., The, Findlay, Ohio. Beer. No. 84,183; Nov. 14; Gaz. vol. 172; p. 545.
Krantz Brewing Company, The, Findlay, Ohio. Beer. No. 81,725; May 2; Gaz. vol. 166; p. 247.
Kraus, Lambert & Co., New York, N. Y. Alpacas, velvets, cottons, &c. No. 81,466; Apr. 11; Gaz. vol. 165; p. 470.
Krebs & Klenk, Hanau-on-the-Main, Germany. Talking-machines, sounding-boxes and pins for talking-machines. No. 84,238; Nov. 21; Gaz. vol. 172; p. 818.
Kriechbaum, Edward G., San Francisco, Cal. Remedy for eczema and skin affections. No. 84,497; Dec. 19; Gaz. vol. 173; p. 858.
Kroeger-Amos-James Grocer Company, St. Louis, Mo. Certain foods. No. 81,154; Mar. 7; Gaz. vol. 164; p. 246.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Certain foods. No. 84,323; Nov. 28; Gaz. vol. 172; p. 1085.
Krom, John J., St. Augustine, Fla. Toilet and certain medicinal preparations. No. 82,155; June 6; Gaz. vol. 167; p. 237.
Kropp, John, New York, N. Y. Remedy for rheumatism. No. 84,498; Dec. 19; Gaz. vol. 173; p. 858.
Krower & Tynberg, New York, N. Y. White embroideries. No. 80,856; Feb. 7; Gaz. vol. 163; p. 228.
Krusius, Ewald, West Hoboken, N. J. Certain cutlery and machinery. No. 81,467; Apr. 11; Gaz. vol. 165; p. 470.
Kuhnert, W. A., Palo Alto and San Francisco, Cal. Ironing-boards. No. 84,644; Dec. 26; Gaz. vol. 173; p. 1075.
Künkler, Friedrich, Mannheim, Germany. Polish for leather and leather goods. No. 81,398; Apr. 4; Gaz. vol. 165; p. 237.
Künkler, Friedrich, Mannheim, Germany. Polish for leather and leather goods. No. 82,156; June 6; Gaz. vol. 167; p. 237.
Kupferle Bros. Mfg. Co., St. Louis, Mo. Self and non measuring long-distance gasolene and oil pumps. No. 84,499; Dec. 19; Gaz. vol. 173; p. 858.

Alphabetical list of registrants of trade-marks—Continued.

L. Herzog & Brother Dry Goods Company, St. Louis, Mo. Men's half-hose and ladies' and children's clothing. No. 81,076; Feb. 28; Gaz. vol. 163; p. 974.
L. Sonneborn Sons, Inc., New York, N. Y. Ready-mixed paints. No. 83,697; Oct. 3; Gaz. vol. 171; p. 211.
L. Sonneborn Sons, Inc., New York, N. Y. Asphalt compositions and paints. No. 84,050; Oct. 31; Gaz. vol. 171; p. 1255.
L. C. Nicholson Co., The, Indianapolis, Ind. Cigars. No. 81,542; Apr. 18; Gaz. vol. 165; p. 726.
L. E. Waterman Company, New York, N. Y. Fountain-pens and the parts thereof. No. 83,621; Sept. 26; Gaz. vol. 170; p. 925.
L. F. Giffen & Co., Fresno and Fowler, Cal. California dried fruits and raisins. No. 83,062; Aug. 15; Gaz. vol. 169; p. 697.
L. F. Giffen & Co., Fresno and Fowler, Cal. California dried fruits and raisins. No. 84,314; Nov. 28; Gaz. vol. 172; p. 1085.
L. H. Thomas Co., Chicago, Ill. Inks and writing fluids. No. 82,731; July 18; Gaz. vol. 168; p. 785.
L. H. Thomas Co., Chicago, Ill. Glue, adhesive paste, and mucilage. No. 82,845; July 25; Gaz. vol. 168; p. 1030.
L. J. Mutty Company, Boston, Mass. Waterproofed textile fabrics. No. 81,226; Mar. 14; Gaz. vol. 164; p. 504.
La Crosse Plow Company, La Crosse, Wis. Plows. No. 82,338; June 20; Gaz. vol. 167; p. 758.
La Fourrure Société Anonyme L'Administrateur Delegue, Alost, Belgium. Dressed fur-skins. No. 84,398; Dec. 12; Gaz. vol. 173; p. 579.
Laban, William, assignor to Apex Concrete Roofing Tile Company, Grand Rapids, Mich. Concrete roofing-tile. No. 81,012; Feb. 21; Gaz. vol. 163; p. 724.
Lacko Specialty Company, San Francisco, Cal., and Chicago, Ill., assignor to H. O. Franklin, San Francisco, Cal. Paint and varnish cleaner and polish. No. 84,011; Oct. 31; Gaz. vol. 171; p. 1254.
Ladies Home Magazine Company, Jersey City, N. J. Monthly magazines. No. 82,157; June 6; Gaz. vol. 167; p. 237.
Lagomarcine-Grupe Company, Davenport, Iowa. Ice-cream. No. 84,240; Nov. 21; Gaz. vol. 172; p. 818.
Lamb, Thomas, Brooklyn, N. Y. Antiseptic mouth-wash. No. 83,845; Oct. 17; Gaz. vol. 171; p. 740.
Lambert, John B., Woonsocket, R. I. Soda-water. No. 84,012; Oct. 31; Gaz. vol. 171; p. 1254.
Lamont, Corliss & Company, New York, N. Y. Tungsten electric lamps. No. 82,697; July 18; Gaz. vol. 168; p. 784.
Lampront, Mary, Montreal, Quebec, Canada. Condition medicines for domestic animals. No. 81,085; Feb. 28; Gaz. vol. 163; p. 974.
Landfield & Steele, Chicago, Ill. Cigars, cheroots, and little cigars. No. 80,928; Oct. 14; Gaz. vol. 163; p. 478.
Landsberger, Albert H., San Francisco, Cal. Certain beverage. No. 84,105; Nov. 7; Gaz. vol. 172; p. 256.
Lang, Richard F., New York, N. Y. Compound metals in the form of ingots. No. 83,747; Oct. 10; Gaz. vol. 171; p. 478.
Lange & Pohle, Providence, R. I. Corset stays and fasteners. No. 82,095; May 30; Gaz. vol. 166; p. 1278.
Lanman & Kemp, New York, N. Y. Liniments. No. 81,726; May 2; Gaz. vol. 166; p. 247.
Lanman & Kemp, New York, N. Y. Liniments. Nos. 82,158–9; June 6; Gaz. vol. 167; p. 237.
Lanman & Kemp, New York, N. Y. Salve or ointment of witch-hazel. No. 83,748; Oct. 10; Gaz. vol. 171; p. 478.
Lanman & Kemp, New York, N. Y. Compound for pulmonary affections, and an anodyne. No. 84,106; Nov. 7; Gaz. vol. 172; p. 256.
Lanman & Kemp, New York, N. Y. Double extract of witch-hazel. No. 84,107; Nov. 7; Gaz. vol. 172; p. 256.
Lanman & Kemp, New York, N. Y. Vegetable pastils for expelling worms from the system. No. 84,108; Nov. 7; Gaz. vol. 172; p. 256.
Lanman & Kemp, New York, N. Y. Cathartic pills. No. 84,109; Nov. 7; Gaz. vol. 172; p. 256.
Lanman & Kemp, New York, N. Y. Emollients. No. 84,110; Nov. 7; Gaz. vol. 172; p. 256.
Lanman & Kemp, New York, N. Y. Rectified alcohol. Nos. 84,399–400; Dec. 12; Gaz. vol. 173; p. 579.
Lanners, Louise, Chicago, Ill. Dress-patterns. No. 84,111; Nov. 7; Gaz. vol. 172; p. 256.
Larabee Flour Mills Company, Hutchinson and Stafford, Kans. Stock feed. No. 82,096; May 30; Gaz. vol. 166; p. 1278.
Lasher Manufacturing Co., Davenport, Iowa. Kitchen-hardware. No. 83,500; Sept. 19; Gaz. vol. 170; p. 700.
Lattarulo, Vito V., New York, N. Y. Patent and glazed leather. No. 84,401; Dec. 12; Gaz. vol. 173; p. 579.
Lavanburg, Fred L., New York, N. Y. Paris green. No. 82,446; June 27; Gaz. vol. 167; p. 978.
Lawson, Carl R., Winston Salem, N. C. Remedy for stomach, liver, and kidney diseases. No. 84,324; Nov. 28; Gaz. vol. 172; p. 1085.
Lawson Manufacturing Company, Chicago, Ill. Hinges, door-guards, window-locks, &c. No. 82,613; July 11; Gaz. vol. 168; p. 521.
Lax & Strauss, New York, N. Y. Knit underwear. No. 82,995; Aug. 8; Gaz. vol. 169; p. 446.
Layton Pure Food Company, East St. Louis, Ill. Baking-powder. No. 81,886; May 16; Gaz. vol. 166; p. 748.
Lazell, Perfumer, New York, N. Y. Talcum, sachet, face, and bath powder. No. 82,899; Aug. 1; Gaz. vol. 169; p. 200.
Le Han, Frank, Chicago, Ill. Medicinal preparation for the feet. No. 82,614; July 11; Gaz. vol. 168; p. 521.
Lee & Company, P. P., Bellingham, Wash. Certain named canned goods. No. 83,340; Sept. 5; Gaz. vol. 170; p. 240.
Lee & Company, P. P., Bellingham, Wash. Certain canned goods. No. 83,656; Oct. 3; Gaz. vol. 171; p. 209.
Lees Manufacturing Co., The, New York, N. Y., and Westport, Conn. Seine-twines. No. 84,645; Dec. 26; Gaz. vol. 173; p. 1075.
Legein, J. L., Springfield, Mass. Flavoring extracts. No. 84,013; Oct. 31; Gaz. vol. 171; p. 1254.
Leighton & Co., B. F., Haverhill, Mass. Certain foods. No. 80,777; Jan. 31; Gaz. vol. 162; p. 1179.
Lekas and Drivas, New York, N. Y. Olive-oil. No. 82,097; May 30; Gaz. vol. 166; p. 1278.
Lenhart and Ingersoll Manufacturing Company, The, Jersey City, N. J. Composition of matter resembling cork. No. 81,223; Mar. 14; Gaz. vol. 164; p. 504.
Lenoble, Alphonse, Aîné, Lisieux, France. Camembert cheese. No. 80,930; Feb. 14; Gaz. vol. 163; p. 478.
Lenoir Medicine Company, Lenoir, N. C. Remedy for piles. No. 82,805; July 25; Gaz. vol. 168; p. 1029.
Leominster Button Co., Leominster, Mass. Hair ornaments. No. 83,749; Oct. 10; Gaz. vol. 171; p. 478.
Leonard, Arthur G., New York, N. Y. Tanks for fire-buckets. No. 80,602; Jan. 10; Gaz. vol. 162; p. 534.
Leschke & Pletcher, Hartford, Conn. Cigars and tobacco. No. 84,646; Dec. 26; Gaz. vol. 173; p. 1075.
Letzelter, Michael, Pittsburg, Pa. Straight rye whisky. No. 82,098; May 30; Gaz. vol. 166; p. 1278.
Levaggi Company, San Francisco, Cal. Certain alcoholic liquors. No. 83,416; Sept. 12; Gaz. vol. 170; p. 478.
Levi, Laz., New York, N. Y. Suspenders, belts, garters, and sleeve-holders. No. 82,524; July 4; Gaz. vol. 168; p. 246.
Levine Bros. Inc., New York, N. Y. Chocolate candies. No. 84,112; Nov. 7; Gaz. vol. 172; p. 256.
Levy, Alfred H. V., London, England. Finger-rings as remedies for rheumatism. No. 80,788; Jan. 31; Gaz. vol. 162; p. 1180.
Levy, Archibald L., New York, N. Y. Wool, worsted, and cotton piece goods. No. 83,923; Oct. 24; Gaz. vol. 171; p. 980.
Levy, Max M., Denver, Colo. Inks and ink-powder. No. 81,342; Mar. 28; Gaz. vol. 164; p. 971.
Lewin, Louis, Chicago, Ill. Work-shirts, jumper-coats, and overalls. No. 82,806; July 25; Gaz. vol. 168; p. 1029.
Lewis, Lorenzo W., Columbus, Ohio. Metal-polish. No. 81,086; Feb. 28; Gaz. vol. 163; p. 974.
Lewis Meier & Co., Indianapolis, Ind. Overalls, trousers, and shirts. No. 80,606; Jan. 10; Gaz. vol. 162; p. 534.
Lewis, Nathan N., Hazleton, Pa. Remedies for certain affections and a vermicide. No. 83,073; Aug. 15; Gaz. vol. 169; p. 698.
Lewis & Tylor Limited, Cardiff, England. Machine-belting. No. 82,525; July 4; Gaz. vol. 168; p. 246.
Lewis, William, Chicago, Ill. Lung and dropsy remedies. No. 80,663; Jan. 17; Gaz. vol. 162; p. 780.
Leys, Christie & Co., New York, N. Y. Jewelry. No. 82,699; July 18; Gaz. vol. 168; p. 784.
Leza y Sebasco, Antonio, Habana, Cuba. Hair-tonic and remedy for dandruff. No. 83,604; Sept. 26; Gaz. vol. 170; p. 925.
Liberty Brewing Co., Pittsburg, Pa. Beer, ale, and porter. No. 81,013; Feb. 21; Gaz. vol. 163; p. 724.
Lightfoot Schultz Co., New York, N. Y. Soap. No. 83,074; Aug. 15; Gaz. vol. 169; p. 698.
Lillie, George M., New York, N. Y. Hosiery. No. 82,700; July 18; Gaz. vol. 168; p. 784.
Limoneira Company, Santa Paula, Cal. Nuts. No. 80,723; Jan. 24; Gaz. vol. 162; p. 996.
Limoneira Company, Santa Paula, Cal. Lemons. No. 84,647; Dec. 26; Gaz. vol. 173; p. 1075.
Lindenberger Packing Co., Inc., Seattle, Wash. Canned salmon. No. 84,014; Oct. 31; Gaz. vol. 171; p. 1254.
Lindsay Light Company, Chicago, Ill. Incandescent gas-mantles. No. 83,587; Sept. 26; Gaz. vol. 170; p. 924.
Lindsay Light Company, Chicago, Ill. Incandescent gas-mantles. No. 83,750; Oct. 10; Gaz. vol. 171; p. 478.
Lindsay Light Company, Chicago, Ill. Incandescent gas mantles and lights. No. 84,648; Dec. 26; Gaz. vol. 173; p. 1075.
Lindsay Light Company, Chicago, Ill. Incandescent gas lights and burners. No. 84,649; Dec. 26; Gaz. vol. 173; p. 1075.
Lindsay Light Company, Chicago, Ill. Incandescent gas-mantles. No. 84,650; Dec. 26; Gaz. vol. 173; p. 1075.
Lingner, Karl A., Dresden, Germany. Soap. No. 82,160; June 6; Gaz. vol. 167; p. 237.
Lingner, Karl A., Dresden, Germany. Soaps and soap powders. No. 83,417; Sept. 12; Gaz. vol. 170; p. 478.
Linke, Theodore, New York, N. Y. Water-filters. No. 81,887; May 16; Gaz. vol. 166; p. 748.

Alphabetical list of registrants of trade-marks—Continued.

Little & Company, A. E., Lynn, Mass. Boots and shoes. No. 82,701; July 18; Gaz. vol. 168; p. 784.
Littlejohn Medicine Co., Gaffney, S. C. Remedy for croup and pneumonia. No. 84,651; Dec. 26; Gaz. vol. 173; p. 1075.
Livermore, Homer F., Boston, Mass. Metal castings. No. 81,014; Feb. 21; Gaz. vol. 163; p. 724.
Lloyd, Walter J., New York, N. Y. Compound for cleaning walls and ceilings. No. 84,113; Nov. 7; Gaz. vol. 172; p. 256.
Lloyd, William, London, England. Rock-drills. No. 83,075; Aug. 15; Gaz. vol. 169; p. 698.
Locke Regulator Company, Salem, Mass. Certain hardware, plumbing, and steam-fitting supplies. No. 83,076; Aug. 15; Gaz. vol. 169; p. 698.
Lodge & Shipley Machine Tool Co., Cincinnati, Ohio. Lathes. No. 84,242; Nov. 21; Gaz. vol. 172; p. 818.
Loeb, Marcus, Atlanta, Ga. Pantaloons, overalls, negligée and work shirts, and overall-coats. No. 84,500; Dec. 19; Gaz. vol. 173; p. 858.
Loeflund & Co., Ed., Grunbach, Germany. Malt extract. No. 80,724; Jan. 24; Gaz. vol. 162; p. 996.
Loeper, Charles P., Philadelphia, Pa. Remedies for rheumatism and diseases of the throat, lungs, and liver. No. 82,615; July 11; Gaz. vol. 168; p. 521.
Loesihy, Lestech, Hoboken, N. J. Remedy for nervousness and rheumatic troubles. No. 81,343; Mar. 28; Gaz. vol. 164; p. 971.
Loewenstein, Max, New York, N. Y. Metal-polish. No. 81,344; Mar. 28; Gaz. vol. 164; p. 972.
Logan, Oral D., Pittsburg, Pa. Shoe-polish. No. 81,224; Mar. 14; Gaz. vol. 164; p. 504.
Longwell & Son, J., Wellman, Iowa. Medicinal compound for sore throat and diphtheria. No. 81,399; Apr. 4; Gaz. vol. 165; p. 237.
Lonsdale Company, Providence, R. I. Cotton piece goods. Nos. 81,888–9; May 16; Gaz. vol. 166; p. 748.
Lonsdale Company, Providence, R. I. Cotton piece goods. No. 82,339; June 20; Gaz. vol. 167; p. 758.
Lonsdale Company, Providence, R. I. Cotton goods in the piece. No. 82,900; Aug. 1; Gaz. vol. 169; p. 200.
Loose, R. D., Chicago, Ill. Whistles, carbureters, and mufflers for automobiles. No. 82,449; June 27; Gaz. vol. 167; p. 978.
Loose, Windeler, Bremen, Germany. Remedy for gonorrhea, &c. No. 83,658; Oct. 3; Gaz. vol. 171; p. 210.
Lorenz, Louis R., Milwaukee, Wis. Macaroni, vermicelli, spaghetti, egg-noodles. No. 83,501; Sept. 19; Gaz. vol. 170; p. 700.
Lorraine Manufacturing Company, Saylesville, R. I., and New York, N. Y. Cotton dress and piece goods. No. 84,015; Oct. 31; Gaz. vol. 171; p. 1254.
Los Gatos Cured Fruit Co., Los Gatos, Cal. Dried fruits. No. 84,016; Oct. 31; Gaz. vol. 171; p. 1254.
Louis Metzger & Co., New York, N. Y. Hat-trimmings. No. 80,863; Feb. 7; Gaz. vol. 163; p. 228.
Louisville Cottonseed Products Co., Louisville, Ky. Cotton-seed flour. No. 82,807; July 25; Gaz. vol. 168; p. 1029.
Louisville Paint Mfg. Co., Louisville, Ky. Ready-mixed house-paints and wood-varnishes. No. 83,924; Oct. 24; Gaz. vol. 171; p. 980.
Lovell-McConnell Manufacturing Company, Newark, N. J. Electrically-operated signal horns and alarms. Nos. 80,789–90; Jan. 31; Gaz. vol. 162; p. 1180.
Lowden, Geo. W., Savannah, Ga. Canned oysters. No. 83,659; Oct. 3; Gaz. vol. 171; p. 210.
Lowenstein, Morris W., New York, N. Y. Neckties and cravats. No. 83,421; Sept. 12; Gaz. vol. 170; p. 478.
Lowenstein, Morris W., New York, N. Y. Neckties. No. 83,422; Sept. 12; Gaz. vol. 170; p. 478.
Lubszynski & Co., Berlin, Germany. Leather, metal, and glass polishing creams and fluids. No. 84,502; Dec. 19; Gaz. vol. 173; p. 858.
Lucas & Co., John, Philadelphia, Pa. Certain paint materials. No. 83,660; Oct. 3; Gaz. vol. 171; p. 210.
Ludlum Steel & Spring Co., The, Watervliet, N. Y. Forgings and castings. No. 81,524; Apr. 18; Gaz. vol. 165; p. 726.
Ludwig Hupfeld Aktiengesellschaft, Leipzig, Germany. Playing apparatus for keyboard instruments and parts, automatic pianos, &c. No. 83,839; Oct. 17; Gaz. vol. 171; p. 740.
Luneburg, Vincent M., Chicago, Ill. Wire belt-lace. No. 83,077; Aug. 15; Gaz. vol. 169; p. 698.
Luneschloss, Alex, New York, N. Y. Olive-oil. No. 84,114; Nov. 7; Gaz. vol. 172; p. 256.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease and oil cups and wrenches. No. 80,858; Feb. 7; Gaz. vol. 163; p. 228.
Lunkenheimer Company, The, Cincinnati, Ohio. Water-gages. No. 83,502; Sept. 19; Gaz. vol. 170; p. 700.
Lunkenheimer Company, The, Cincinnati, Ohio. Valves. No. 83,661; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Lubricators. No. 83,662; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. Nos. 83,663–4; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. Nos. 83,665–6; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Mechanical oil-pumps. No. 83,667; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Lubricators. Nos. 83,668–9; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. No. 83,670; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Lubricators. No. 83,671; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. No. 83,672; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-pumps. No. 83,673; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Grease-cups. No. 83,674; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Oil-cups. Nos. 83,675–7; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Lubricators. No. 83,678; Oct. 3; Gaz. vol. 171; p. 210.
Lunkenheimer Company, The, Cincinnati, Ohio. Pop safety-valves. No. 83,751; Oct. 10; Gaz. vol. 171; p. 478.
Lunkenheimer Company, The, Cincinnati, Ohio. Gate-valves. No. 83,752; Oct. 10; Gaz. vol. 171; p. 478.
Lunkenheimer Company, The, Cincinnati, Ohio. Valves. No. 83,753; Oct. 10; Gaz. vol. 171; p. 478.
Lunkenheimer Company, The, Cincinnati, Ohio. Lubricators. No. 84,325; Nov. 28; Gaz. vol. 172; p. 1085.
Luntz, John, Jr., Baltimore, Md. Automobiles and automobile-trucks. No. 83,925; Oct. 24; Gaz. vol. 171; p. 980.
Lutz & Schramm Co., Pittsburg, Pa. Certain foods. No. 81,345; Mar. 28; Gaz. vol. 164; p. 972.
Luxemburg Milling Company, Luxemburg, Wis. Wheat-flour. No. 82,702; July 18; Gaz. vol. 168; p. 784.
Luxemoor Leather Co., New York, N. Y. Patterned or decorated leather. No. 83,078; Aug. 15; Gaz. vol. 169; p. 698.
Luyties, Frederick A., St. Louis, Mo. Medical antiseptic. No. 81,614; Apr. 25; Gaz. vol. 165; p. 968.
Lyle & Kinahan, Belfast, Ireland. Whisky. No. 81,890; May 16; Gaz. vol. 166; p. 748.
Lyman, William L., Eagle Pass, Tex., and Ciudad Porfirio Diaz, Mexico. Remedy for certain diseases No. 82,005; May 23; Gaz. vol. 166; p. 983.
Lyon & Healy, Chicago, Ill. Pianos and organs with automatic-player attachments built therein. No. 83,846; Oct. 17; Gaz. vol. 171; p. 740.
M. Rumely Company, Laporte, Ind. Hydrocarbon-engines. No. 83,281; Aug. 29; Gaz. vol. 169; p. 1181.
M. Rumely Company, Laporte, Ind. Hydrocarbon-engines. No. 84,341; Nov. 28; Gaz. vol. 172; p. 1086.
M. A. Ellison Drug Co., Dothan, Ala. Eye water and salve. No. 80,994; Feb. 21; Gaz. vol. 163; p. 723.
M. A. Hunt Company, The, Cincinnati, Ohio. Mattresses and spring-beds. Nos. 84,633–4; Dec. 26; Gaz. vol. 173; p. 1075.
M. C. Peters Mill Co., Omaha, Nebr. Stock and poultry food. No. 84,405; Dec. 12; Gaz. vol. 173; p. 580.
M. E. Fisher Company, Red Oak, Iowa. Certain foods. Nos. 82,143–4; June 6; Gaz. vol. 167; p. 237.
M. E. Smith & Co., Omaha, Nebr. Knitted shirts, drawers, and hosiery. No. 83,017; Aug. 8; Gaz. vol. 169; p. 447.
M. & J. Schnaible Company, The, La Fayette, Ind. Soap. No. 82,366; June 20; Gaz. vol. 167; p. 759.
M. K. Goetz Brewing Co., St. Joseph, Mo. Bottled beer. No. 82,223; June 13; Gaz. vol. 167; p. 510.
M. M. M. Babbitt Company, The, Mancelona, Mich. Babbitt metal. No. 84,017; Oct. 31; Gaz. vol. 171; p. 1254.
M & S Cocoa and Chocolate Co., Jersey City, N. J. Chocolate candies and sweet chocolate. No. 84,652; Dec. 26; Gaz. vol. 173; p. 1075.
M & W Suspender Co., Boston, Mass. Men's suspenders. No. 82,526; July 4; Gaz. vol. 168; p. 246.
Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao & Chocoladefabrieken, The Hague, Netherlands. Candy known as "hopjes." No. 82,808; July 25; Gaz. vol. 168; p. 1029.
Maatschappij tot Voortzetting der Zaken van der Linde & Teves, Amsterdam, Netherlands. Tools, scissors, and machinery knives. No. 82,244; June 13; Gaz. vol. 167; p. 510.
MacAndrews & Forbes Company, The, New York, N. Y. Licorice paste. No. 84,018; Oct. 31; Gaz. vol. 171; p. 1254.
Macbeth-Evans Glass Co., Pittsburg, Pa. Arc and incandescent electric lamps. No. 83,164; Aug. 22; Gaz. vol. 169; p. 940.
Mack & Potter, New York, N. Y. Hand-bags. No. 83,588; Sept. 26; Gaz. vol. 170; p. 924.
Maclin-Zimmer Tobacco Co. Incorporated, Petersburg, Va. Tobacco. No. 84,184; Nov. 14; Gaz. vol. 172; p. 546.
Macomber & Whyte Rope Company, Chicago, Ill. Wire rope. No. 83,754; Oct. 10; Gaz. vol. 171; p. 478.
Madame Irène, New York, N. Y. Corsets. No. 80,533; Jan. 3; Gaz. vol. 162; p. 265.
Madison Bottling Works, Madison, N. C. Ginger-ale, root-beer, sarsaparilla, &c. No. 81,812; May 9; Gaz. vol. 166; p. 508.
Maendler, Peter, St. Paul, Minn. Calcimine and paint brushes. No. 80,664; Jan. 17; Gaz. vol. 162; p. 780.

Alphabetical list of registrants of trade-marks—Continued.

Magnesia Asbestos Supply Co., San Francisco, Cal. Automobile brake-linings. No. 81,728; May 2; Gaz. vol. 166; p. 247.
Magnolia Cotton Oil Company, Houston, Tex. Cotton-seed oil and an oleaginous compound for cooking purposes. No. 82,809; July 25; Gaz. vol. 168; p. 1029.
Maier Brewing Company, Inc., Los Angeles, Cal. Beer. No. 84,185; Nov. 14; Gaz. vol. 172; p. 546.
Maillard, Henry, New York, N. Y. Chocolate. No. 80,725; Jan. 24; Gaz. vol. 162; p. 993.
Maine Manufacturing Company, Nashua, N. H. Refrigerators. Nos. 83,165–9; Aug. 22; Gaz. vol. 169; p. 940.
Maine Manufacturing Company, Nashua, N. H. Refrigerators. No. 83,927; Oct. 24; Gaz. vol. 171; p. 980.
Maline Mills Company, The, Winston Salem and Salem, N. C. Ladies' knitted vests. No. 83,589; Sept. 26; Gaz. vol. 170; p. 924.
Maluf, Gabriel M., Habana, Cuba. Shaving razors and machines, shears, scissors, &c. No. 82,704; July 18; Gaz. vol. 168; p. 784.
Mammoth Spring Milling Company, Mammoth Spring, Ark. Wheat-flour. No. 81,015; Feb. 21; Gaz. vol. 163; p. 724.
Mandel & Co., A. J., Cleveland, Ohio. Certain knitted articles. No. 82,705; July 18; Gaz. vol. 168; p. 784.
Manhattan Electrical Supply Company, Jersey City, N. J. Dry batteries. No. 82,340; June 20; Gaz. vol. 167; p. 758.
Manhattan Rubber Mfg. Company, New York, N. Y. Hose-conduits. No. 84,653; Dec. 26; Gaz. vol. 173; p. 1075.
Manierre-Yoe Company, Chicago, Ill. Compound of corn and sugar syrup. No. 81,346; Mar. 28; Gaz. vol. 164; p. 972.
Mann & Willkomm, Aktiengesellschaft, Dresden, Germany. Speed-indicators. No. 83,079; Aug. 15; Gaz. vol. 169; p. 698.
Mannheimer Bros., St. Paul, Minn. Talcum powders, perfumeries, and face-creams. No. 81,534; Apr. 18; Gaz. vol. 165; p. 726.
Manomet Mills, New Bedford, Mass. Cotton yarns. No. 84,020; Oct. 31; Gaz. vol. 171; p. 1254.
Mansfield, George E., Jr., Springfield, Mass. Bread. No. 83,679; Oct. 3; Gaz. vol. 171; p. 210.
Mansfield Packing Co., Jonesport, Me. Canned sardines. No. 82,341; June 20; Gaz. vol. 167; p. 758.
Manufacturers Corundum Company, Limited, Toronto, Ontario, Canada. Re-fused corundum. No. 83,264; Aug. 29; Gaz. vol. 169; p. 1180.
Manufacturers Sales Company, Pittsburgh, Pa. Gas-shade holder. No. 84,243; Nov. 21; Gaz. vol. 172; p. 818.
Marble Hose Company, The, Hamilton, Ohio. Hosiery. No. 84,115; Nov. 7; Gaz. vol. 172; p. 256.
Marburg Brothers, New York, N. Y. Magnetos. No. 84,244; Nov. 21; Gaz. vol. 172; p. 818.
Marcy Company, The, Boston, Mass. Uric-acid solvent and urinary antiseptic. No. 80,931; Feb. 14; Gaz. vol. 163; p. 478.
Marietta Paint & Color Co., The, Marietta, Ohio. Mixed paint. No. 81,729; May 2; Gaz. vol. 166; p. 247.
Markt & Hammacher Company, New York, N. Y. Saws. No. 83,503; Sept. 19; Gaz. vol. 170; p. 700.
Marley Company, R. F., The, Terre Haute, Ind. Certain stationery. No. 81,400; Apr. 4; Gaz. vol. 165; p. 237.
Marlow, Percy E., Northampton, England. Leather boots, shoes, leggings, &c. No. 80,726; Jan. 24; Gaz. vol. 162; p. 996.
Marone, John, New York, N. Y. Certain medicine. No. 84,326; Nov. 28; Gaz. vol. 172; p. 1085.
Marsh Capron Manufacturing Company, The, Chicago, Ill. Concrete-mixers and appliances for handling concrete. No. 81,401; Apr. 4; Gaz. vol. 165; p. 237.
Marsh, Chas. E., Lynn, Mass. Soap. Nos. 82,616–17; July 11; Gaz. vol. 168; p. 521.
Marshall Field & Company, Chicago, Ill. Hair-nets. No. 81,262; Mar. 21; Gaz. vol. 164; p. 735.
Marshall Field & Company, Chicago, Ill. Hair-nets. No. 81,865; May 16; Gaz. vol. 166; p. 747.
Marshall Field & Company, Chicago, Ill. Hair-nets. No. 82,316; June 20; Gaz. vol. 167; p. 758.
Marshall Field & Company, Chicago, Ill. Hair-brushes. No. 82,588; July 11; Gaz. vol. 168; p. 520.
Marshall Field & Company, Chicago, Ill. Combs. No. 83,265; Aug. 29; Gaz. vol. 169; p. 1181.
Marshall Field & Company, Chicago, Ill. Hosiery. Nos. 83,266–7; Aug. 29; Gaz. vol. 169; p. 1181.
Marshall Field & Company, Chicago, Ill. Safety-pins. No. 83,997; Oct. 31; Gaz. vol. 171; p. 1253.
Marshall, Geo. H., New York, N. Y. Sugar-cane fiber. No. 81,469; Apr. 11; Gaz. vol. 165; p. 470.
Marshall Knitting Co., Utica, N. Y. Knitted vests, diapers, Gertrude skirts, &c. No. 82,008; May 23; Gaz. vol. 166; p. 983.
Marshall-Wells Hardware Company, Duluth, Minn. Alarm-clocks. No. 80,539; Jan. 3; Gaz. vol. 162; p. 266.
Martin, Horace G., East Rutherford, N. J. Electric telegraphic apparatus. No. 84,356; Nov. 28; Gaz. vol. 172; p. 1086.
Martin Specialty Co. Not Inc., Chicago, Ill. Rheumatic remedies. No. 84,327; Nov. 28; Gaz. vol. 172; p. 1086.
Martin's Sons, E. J., Rockville, Conn. Fishing-lines. No. 82,161; June 6; Gaz. vol. 167; p. 238.
Martinsville Brick Co., Martinsville, Ind. Bricks. No. 82,246; June 13; Gaz. vol. 167; p. 510.
Maryland Macaroni Company, Baltimore, Md. Macaroni paste foods. No. 80,540; Jan. 3; Gaz. vol. 162; p. 266.
Maryland Oiled Clothing Company, Baltimore, Md. Pajamas, drawers, and union suits. No. 81,813; May 9; Gaz. vol. 166; p. 508.
Mason Brothers, Lodi, Cal. Fresh grapes. No. 81,893; May 16; Gaz. vol. 166; p. 748.
Massachusetts Cotton Mills, Lowell, Mass. Cotton piece goods. No. 84,503; Dec. 19; Gaz. vol. 173; p. 858.
Massarella, John, Cincinnati, Ohio. Chocolates. No. 84,116; Nov. 7; Gaz. vol. 172; p. 256.
Mathers, Joseph, Belfast, Ireland. Linen and damask goods. No. 81,616; Apr. 25; Gaz. vol. 165; p. 968.
Matinee Waist Co., Glens Falls, N. Y. Ladies' dress, shirt, and under waists. No. 82,245; June 13; Gaz. vol. 167; p. 510.
Mattatuck Manufacturing Company, Waterbury, Conn. Certain hardware. No. 82,247; June 13; Gaz. vol. 167; p. 510.
Mattatuck Manufacturing Company, The, Waterbury, Conn. Handcuffs, leg-irons, and nippers. No. 82,901; Aug. 1; Gaz. vol. 169; p. 200.
Mattei, Andrew, Fresno, Cal. Wines. No. 83,755; Oct. 10; Gaz. vol. 171; p. 478.
Matthews, James G., Nashville, Tenn. Syrup for soda-water drinks. No. 84,019; Oct. 31; Gaz. vol. 171; p. 1254.
Matthews, Silas, Nashville, Tenn. Remedy for diseases of the blood. No. 81,730; May 2; Gaz. vol. 166; p. 247.
Maude Odell Company, The, New York, N. Y. Certain toilet preparations. No. 80,543; Jan. 3; Gaz. vol. 162; p. 266.
Maude Odell Company, The, New York, N. Y. Certain toilet preparations. No. 84,125; Nov. 7; Gaz. vol. 172; p. 256.
Maus, Louis M., Chicago, Ill. Venereal prophylactic and remedial agents. No. 82,450; June 27; Gaz. vol. 167; p. 978.
Max G. Cohn & Co., New York, N. Y. Hair-retainers and dressing devices. No. 84,465; Dec. 19; Gaz. vol. 173; p. 857.
Max Stiner & Co., New York, N. Y. Whisky. No. 84,271; Nov. 21; Gaz. vol. 172; p. 819.
Maxim, Hiram S., London, England. Inhalers. No. 83,170; Aug. 22; Gaz. vol. 169; p. 940.
Mayer Fertilizer Co., The, St. Louis, Mo. Fertilizers. No. 82,618; July 11; Gaz. vol. 168; p. 521.
Mayfield, Thomas D., Newark, N. J. Dental castings, inlays, and crowns. No. 84,328; Nov. 28; Gaz. vol. 172; p. 1086.
Mayfield, Thomas D., Newark, N. J. Dental compounds used in casting dental molds. No. 84,329; Nov. 28; Gaz. vol. 172; p. 1086.
Mayo Manufacturing Company, Portland, Me. Envelop-sealing machines. No. 81,471; Apr. 11; Gaz. vol. 165; p. 470.
Maze & Co., Walter H., Peru, Ill. Zinc roofing-nails. No. 84,245; Nov. 21; Gaz. vol. 172; p. 818.
Mazetta Manufacturing Company, Chicago, Ill. Caramels and cocoanut creams. No. 81,280; Mar. 21; Gaz. vol. 164; p. 736.
McAlester-Edwards Coal Company, Pittsburg, Okla. Coal. No. 83,423; Sept. 12; Gaz. vol. 170; p. 478.
McCleary, Wallin and Crouse, Amsterdam, N. Y. Textile rugs. No. 83,756; Oct. 10; Gaz. vol. 171; p. 478.
McCulloch, John, Lostock-Gralam, near Northwich, England. Vehicle-wheels. No. 84,369; Dec. 5; Gaz. vol. 173; p. 283.
McDonald Milling Company, McDonald, Pa. Wheat-flour. No. 81,472; Apr. 11; Gaz. vol. 165; p. 470.
McFadden Coffee & Spice Co., Dubuque, Iowa. Blended coffees, teas, and flavoring extracts. No. 80,605; Jan. 10; Gaz. vol. 162; p. 534.
McFadden Coffee & Spice Co., Dubuque, Iowa. Coffee. No. 81,016; Feb. 21; Gaz. vol. 163; p. 724.
McFadden Coffee & Spice Co., Dubuque, Iowa. Blended coffees. No. 82,527; July 4; Gaz. vol. 168; p. 246.
McKean, Eilers & Co., Austin, Tex. Writing-tablets. No. 82,810; July 25; Gaz. vol. 168; p. 1029.
McKennan, Roy C., Connersville, Ind. Local anesthetic. No. 81,731; May 2; Gaz. vol. 166; p. 247.
McKinley, John J., Philadelphia, Pa. Horseshoes. No. 84,504; Dec. 19; Gaz. vol. 173; p. 858.
McKinney Remedy Co., Mansfield, Mo. Face-cream and remedies for indigestion, constipation, &c. No. 83,341; Sept. 5; Gaz. vol. 170; p. 240.
McKissack, W. C., Carrabelle, Fla. Remedy for torpid livers, chills and fever, indigestion, &c. No. 82,619; July 11; Gaz. vol. 168; p. 521.
McManus, Henry, Fall River, Mass. Furniture-polish. No. 82,342; June 20; Gaz. vol. 167; p. 758.
McMechen Preserving Co., Wheeling, W. Va. Certain foods. No. 83,928; Oct. 24; Gaz. vol. 171; p. 980.
McMillan, John S., Monroe, Mich. Printed bill, letter, and note heads. No. 82,620; July 11; Gaz. vol. 168; p. 521.

Alphabetical list of registrants of trade-marks—Continued.

McMurray, William, St. Paul, Minn. Teas. No. 81,017; Feb. 21; Gaz. vol. 163; p. 724.
McNeil & Higgins Company, Chicago, Ill. Certain foods. No. 81,347; Mar. 28; Gaz. vol. 164; p. 972.
McQueeney Chemical Co., The, Akron, Ohio. Certain remedy, ointment, and massaging compound. No. 81,617; Apr. 25; Gaz. vol. 165; p. 968.
McTan Chemical Co., Phoenix, Ariz., and St. Louis, Mo. Nap-raising detergents for worn woolens, &c. No. 81,894; May 16; Gaz. vol. 166; p. 748.
Mead, A. M., Teague, Tex. Remedy for the tobacco habit. No. 84,505; Dec. 19; Gaz. vol. 173; p. 858.
Mead Pulp and Paper Co., The, Dayton, Ohio. Print-papers. No. 83,268; Aug. 29; Gaz. vol. 169; p. 1181.
Meccano Limited, Liverpool, England. Mechanical toys. No. 81,840; May 9; Gaz. vol. 166; p. 509.
Meccano Limited, Liverpool, England. Mechanical toys. No. 83,171; Aug. 22; Gaz. vol. 169; p. 940.
Mechanical Devices Co., Inc., Watervliet, N. Y. Propellers. No. 81,156; Mar. 7; Gaz. vol. 164; p. 246.
Meerschaum Co. of America, The, New York, N. Y. Tobacco-pipes. Nos. 81,895–6; May 16; Gaz. vol. 166; p. 748.
Meerschaum Co. of America, The, New York, N. Y. Tobacco-pipes. No. 82,451; June 27; Gaz. vol. 167; p. 978.
Meier Dental Manufacturing Company, The, St. Louis, Mo. Metal alloys. No. 80,665; Jan. 17; Gaz. vol. 162; p. 780.
Meier Dental Manufacturing Company, St. Louis, Mo. Dental regulating appliances. No. 80,728; Jan. 24; Gaz. vol. 162; p. 996.
Meierei Heinrichsthal Albert Linke, Radsberg, near Dresden, Germany. Cheese. No. 83,163; Aug. 22; Gaz. vol. 169; p. 940.
Méliès, Gaston, New York, N. Y. Moving-picture films. No. 81,348; Mar. 28; Gaz. vol. 164; p. 972.
Mellynn, Catherine L., San Francisco, Cal. Superfluous-hair remover. No. 80,860; Feb. 7; Gaz. vol. 163; p. 228.
Memphis Broom & Brush Company, Memphis, Tenn. Brooms. No. 83,757; Oct. 10; Gaz. vol. 171; p. 478.
Memphis Column Co., Memphis, Tenn. Wooden columns for building purposes. No. 82,162; June 6; Gaz. vol. 167; p. 238.
Mendelsohn, Felix, Chicago, Ill. Annual publications. No. 83,758; Oct. 10; Gaz. vol. 171; p. 478.
Menesini & fili Davini, Lucca, Italy. Olive-oil. No. 83,172; Aug. 22; Gaz. vol. 169; p. 940.
Mercantile Paper Co., Montgomery, Ala. Envelops, writing-paper, lead-pencils, tablets, pens, and wrapping-paper. No. 82,903; Aug. 1; Gaz. vol. 169; p. 200.
Merchant & Evans Co., Camden, N. J. Tire-cases. No. 83,425; Sept. 12; Gaz. vol. 170; p. 478.
Merchant & Evans Company, Philadelphia, Pa. Roofing-paper. No. 80,607; Jan. 10; Gaz. vol. 162; p. 534.
Merchant & Evans Company, Philadelphia, Pa. Tin-plate. No. 80,631; Jan. 10; Gaz. vol. 162; p. 534.
Mercian, J. Howard, New York, N. Y. Canned sardines. No. 84,403; Dec. 12; Gaz. vol. 173; p. 579.
Merck, E., Darmstadt, Germany. Certain chemicals. No. 80,861; Feb. 7; Gaz. vol. 163; p. 228.
Merit Manufacturing Company, Mayfield, Ky. Boys' outer suits, coats, vests, and pants. No. 84,021; Oct. 31; Gaz. vol. 171; p. 1254.
Merkle Wiley Broom Co., Paris, Ill. Brooms. No. 81,089; Feb. 28; Gaz. vol. 163; p. 974.
Merkle-Wiley Broom Co., Paris, Ill. Brooms. No. 81,349; Mar. 28; Gaz. vol. 164; p. 972.
Merrell-Soule Co., Syracuse, N. Y. Soups. No. 82,163; June 6; Gaz. vol. 167; p. 238.
Merrimack Manufacturing Co., Lowell, Mass. Cotton piece goods. No. 83,173; Aug. 22; Gaz. vol. 169; p. 940.
Merrimack Manufacturing Company, Lowell, Mass. Cotton piece goods. No. 83,426; Sept. 12; Gaz. vol. 170; p. 478.
Merriman, Charles F., Minneapolis, Minn. Dry-closets. No. 83,504; Sept. 19; Gaz. vol. 170; p. 700.
Mertz, Daniel L., Watertown, S. D. Hair-tonics. No. 80,791; Jan. 31; Gaz. vol. 162; p. 1180.
Mertz, Edward L., Fort Wayne, Ind. Remedies for certain diseases. No. 80,862; Feb. 7; Gaz. vol. 163; p. 228.
Meschke, John M., Chesterfield, Va. Remedy for ailments caused by worms in horses. No. 80,792; Jan. 31; Gaz. vol. 162; p. 1180.
Messersmith, John, Buffalo, N. Y. Storage-cabinets. No. 81,281; Mar. 21; Gaz. vol. 164; p. 736.
Metal Stamping Company, Long Island City, N. Y. Anti-rattlers. No. 80,666; Jan. 17; Gaz. vol. 162; p. 780.
Metropolitan Electric Mfg. Co., New York, N. Y. Electric wall and knife switches, panel-boards, &c. No. 83,081; Aug. 15; Gaz. vol. 169; p. 698.
Metropolitan Engineering Company, Brooklyn, N. Y. Electrical apparatus. No. 83,082; Aug. 15; Gaz. vol. 169; p. 698.
Metropolitan Tobacco Company, New York, N. Y. Rice-paper for cigarettes. No. 84,117; Nov. 7; Gaz. vol. 172; p. 256.
Metz, David C., Newark, Ohio. Remedy for heaves. No. 83,680; Oct. 3; Gaz. vol. 171; p. 210.
Meyer, Firm of Arnold O., Hamburg, Germany. Twine, cords, and ropes. No. 82,344; June 20; Gaz. vol. 167; p. 759.
Meyer, Arnold O., Hamburg, Germany. Fertilizers. No. 82,621; July 11; Gaz. vol. 168; p. 521.
Meyer, Arnold O., Hamburg, Germany. Wire nails. No. 84,246; Nov. 21; Gaz. vol. 172; p. 818.
Meyer, Arnold O., Hamburg, Germany. Certain paints. No. 84,247; Nov. 21; Gaz. vol. 172; p. 818.
Meyer, Arnold O., Hamburg, Germany. Certain textiles. Nos. 84,330–1; Nov. 28; Gaz. vol. 172; p. 1086.
Meyer, Firm of Arnold O., Hamburg, Germany. Machinery packing. No. 84,654; Dec. 26; Gaz. vol. 173; p. 1075.
Meyer Cahn & Talbott, Los Angeles, Cal. Optical lenses. No. 84,459; Dec. 19; Gaz. vol. 173; p. 857.
Meyer, David, New York, N. Y. Preparation for softening the skin, &c. No. 81,018; Feb. 21; Gaz. vol. 163; p. 724.
Meyer & Wenthe, Chicago, Ill. Seal-presses. No. 82,706; July 18; Gaz. vol. 168; p. 784.
Meyer, William, Chicago, Ill. Certain electrical machines and appliances therefor. No. 81,897; May 16; Gaz. vol. 166; p. 748.
Meyerhoff, Son & Company, Philadelphia and Pottstown, Pa. Men's shirts. No. 83,427; Sept. 12; Gaz. vol. 170; p. 478.
Meyrowitz, Emil B., New York, N. Y. Certain electrical apparatus. No. 84,118; Nov. 7; Gaz. vol. 172; p. 256.
Meyrowitz Manufacturing Co., The, New York, N. Y. Optical-lens blanks. No. 83,269; Aug. 29; Gaz. vol. 169; p. 1181.
Michigan Alkali Company, Ford, Mich. Bicarbonate of soda. No. 82,452; June 27; Gaz. vol. 167; p. 978.
Michigan Milling Company, Ann Arbor, Mich. Wheat-flour. No. 82,009; May 23; Gaz. vol. 166; p. 983.
Michigan Milling Company, Ann Arbor, Mich. Wheat-flour. No. 82,345; June 20; Gaz. vol. 167; p. 759.
Michigan Milling Company, Ann Arbor, Mich. Seed-beans. No. 82,707; July 18; Gaz. vol. 168; p. 784.
Middleton Manufacturing Co., Milwaukee, Wis. Men's and boys' hats. No. 82,708; July 18; Gaz. vol. 168; p. 784.
Migel & Co., M. C., New York, N. Y. Silk piece goods. No. 81,282; Mar. 21; Gaz. vol. 164; p. 736.
Migel & Co., M. C., New York, N. Y. Silk piece goods. No. 84,656; Dec. 26; Gaz. vol. 173; p. 1075.
Migge, William, London, England. Toilet powder. No. 82,904; Aug. 1; Gaz. vol. 169; p. 200.
Miller Bros. & Co., Baltimore, Md. Certain foods. No. 80,668; Jan. 17; Gaz. vol. 162; p. 780.
Miller Bros. & Co., Baltimore, Md. Canned oysters, tomatoes, and peas. No. 81,090; Feb. 28; Gaz. vol. 163; p. 974.
Miller Bros. & Co., Baltimore, Md. Canned peaches. No. 81,732; May 2; Gaz. vol. 166; p. 247.
Miller Bros. Star Shoe Co., The, Cleveland, Ohio. Boots and shoes. No. 80,864; Feb. 7; Gaz. vol. 163; p. 228.
Miller Bros. Star Shoe Co., Cleveland, Ohio. Leather and rubber boots and shoes. No. 81,814; May 9; Gaz. vol. 166; p. 508.
Miller, Du Brul & Peters Mfg. Co., The, Cincinnati, Ohio, and New York, N. Y. Wagons. No. 83,930; Oct. 24; Gaz. vol. 171; p. 980.
Miller, John S., Kansas City, Mo. Remedy for certain diseases and nervous affections. No. 82,622; July 11; Gaz. vol. 168; p. 521.
Miller, Randolph H., Asbury Park, N. J. Waterproofing compound to be mixed with cement. No. 82,905; Aug. 1; Gaz. vol. 169; p. 200.
Miller & Sons Co., Philadelphia, Pa. Hosiery. No. 83,428; Sept. 12; Gaz. vol. 170; p. 478.
Miller Storage Battery Company, The, Toledo, Ohio. Storage batteries. No. 83,681; Oct. 3; Gaz. vol. 171; p. 210.
Miller's Sons Co., A. D., Pittsburg, Pa. Petroleum-wax of paraffin nature. No. 80,608; Jan. 10; Gaz. vol. 162; p. 534.
Miller's Sons Co., A. D., Pittsburg, Pa. Lubricating-oils. No. 81,157; Mar. 7; Gaz. vol. 164; p. 246.
Mills & Son, William, New York, N. Y. Fish-hooks. No. 81,815; May 9; Gaz. vol. 166; p. 508.
Milne & Co., A., New York, N. Y. Steel in bars, blocks, blooms, &c. No. 82,454; June 27; Gaz. vol. 167; p. 978.
Milne, John C., New York, N. Y. Rubberized or waterproofed fabrics. No. 83,682; Oct. 3; Gaz. vol. 171; p. 210.
Milo Remedy Co., The, Alexandria, Va. Remedy for rheumatism. No. 84,248; Nov. 21; Gaz. vol. 172; p. 818.
Milone, Aurelio, Camden, N. J. Certain remedies. No. 83,683; Oct. 3; Gaz. vol. 171; p. 210.
Milton Chemical Co., Milton and Boston, Mass. Dusting-cloths. No. 81,898; May 16; Gaz. vol. 166; p. 748.
Minneapolis Drug Company, Minneapolis, Minn. Remedy for catarrhal disorders. No. 82,812; July 25; Gaz. vol. 168; p. 1029.
Minturn, Joseph A., Indianapolis, Ind. Therapeutic instruments. No. 81,159; Mar. 7; Gaz. vol. 164; p. 246.
Mississippi Glass Company, St. Louis, Mo. Sheet-glass. No. 82,455; June 27; Gaz. vol. 167; p. 978.

Alphabetical list of registrants of trade-marks—Continued.

Mitchell, Clarence B., Boston, Mass. Canned sardines. No. 82,347; June 20; Gaz. vol. 167; p. 759.
Mitchell-Lewis Motor Co., Racine, Wis. Road and motor vehicles, motor trucks and boats. No. 82,010; May 23; Gaz. vol. 166; p. 983.
Mlle. Wolfe Co., Philadelphia, Pa. Sanitary belts and napkins and surgical shoulder-braces. No. 81,188; Mar. 7; Gaz. vol. 164; p. 247.
Mlle. Wolfe Co., Philadelphia, Pa. Ruffle waists and sanitary aprons or skirt-protectors. No. 82,127; May 30; Gaz. vol. 166; p. 1279.
Mme. Mariette Company, Chicago, Ill. Corsets. No. 80,604; Jan. 10; Gaz. vol. 162; p. 534.
Mme. Mariette Company, Chicago, Ill. Corsets. No. 81,155; Mar. 7; Gaz. vol. 164; p. 246.
Mock, Adolph L., New York, N. Y. Candies and chocolates. No. 81,618; Apr. 25; Gaz. vol. 165; p. 968.
Moeller, August E., New York, N. Y. Thermometers, barometers, and hydrometers. No. 84,249; Nov. 21; Gaz. vol. 172; p. 818.
Mohr, John C., Chicago, Ill. Storage batteries. No. 80,669; Jan. 17; Gaz. vol. 162; p. 780.
Monarch Acetylene Company, Omaha, Nebr. Acetylene-gas generators. No. 84,250; Nov. 21; Gaz. vol. 172; p. 818.
Monicke Herb Company, Sheboygan, Wis. Certain herb medicines. No. 83,684; Oct. 3; Gaz. vol. 171; p. 210.
Monmouth Canning Co., Portland, Me. Canned vegetables. No. 81,473; Apr. 11; Gaz. vol. 165; p. 470.
Monopol Tobacco Works, New York, N. Y. Cigarettes. No. 82,456; June 27; Gaz. vol. 167; p. 978.
Montague, Wallace R., La Crosse, Wis. Biscuits. No. 82,348; June 20; Gaz. vol. 167; p. 759.
Montana Coal and Iron Co., Washoe, Mont. Coal. No. 83,593; Sept. 26; Gaz. vol. 170; p. 924.
Montana Flour Mills Co., Harlowton, Mont. Wheat-flour. No. 83,505; Sept. 19; Gaz. vol. 170; p. 700.
Montclair Jam Kitchens, The, Montclair, N. J. Certain foods. No. 82,164; June 6; Gaz. vol. 167; p. 238.
Moon, Jesse H., Ritzville, Wash. Remedy for blood-poison. No. 82,813; July 25; Gaz. vol. 168; p. 1029.
Moore & Brady Company, Baltimore, Md. Canned fruits and vegetables. No. 82,012; May 23; Gaz. vol. 166; p. 983.
Moore & Brady Company, Baltimore, Md. Canned oysters. No. 82,249; June 13; Gaz. vol. 167; p. 510.
Moore & Brady Company, Baltimore, Md. Canned oysters. No. 83,270; Aug. 29; Gaz. vol. 169; p. 1181.
Moore & Calvi, New York, N. Y. Smoking and chewing tobacco. No. 80,670; Jan. 17; Gaz. vol. 162; p. 780.
Moore Smith Co., Boston, Mass. Silk, felt, straw, cloth, and leather hats. No. 81,350; Mar. 28; Gaz. vol. 164; p. 972.
Moorefield, Dorsey E., Atlanta, Ga. Ginger-beer. No. 81,160; Mar. 7; Gaz. vol. 164; p. 246.
Moreda y Deben, Bernardo, Habana, Cuba. Cigars. No. 80,514; Jan. 3; Gaz. vol. 162; p. 265.
Morehead, James C., Evanston and Chicago, Ill. Pencils. No. 82,099; May 30; Gaz. vol. 166; p. 1278.
Morgan, Henry T., Louisville, Ky. Medicinal plasters and liniments. No. 81,283; Mar. 21; Gaz. vol. 164; p. 736.
Morgan Knitting Mills, New York, N. Y. Sweaters and knit vests. No. 82,100; May 30; Gaz. vol. 166; p. 1278.
Morgan Knitting Mills, New York, N. Y. Sweaters and knit vests. No. 82,250; June 13; Gaz. vol. 167; p. 510.
Morgan and Maxfield, Holyoke, Mass. Disk mandrels, porte-polishers, &c., for dental use. No. 80,729; Jan. 24; Gaz. vol. 162; p. 996.
Morgan & Wright, Detroit, Mich. Hoof-pads. No. 82,457; June 27; Gaz. vol. 167; p. 978.
Morley Button Manufacturing Company, Portsmouth, N. H. Buttons. No. 81,733; May 2; Gaz. vol. 166; p. 247.
Morningstar & Co., Chas., assignor to Joseph Morningstar, New York, N. Y. Corn-starch. No. 81,474; Apr. 11; Gaz. vol. 165; p. 470.
Morningstar, Joseph. (See Morningstar & Co., Chas.)
Morningstar, Joseph, New York, N. Y. Mineral wax. No. 82,458; June 27; Gaz. vol. 167; p. 979.
Morris & Bendien, New York, N. Y. Motto-cards. No. 83,761; Oct. 10; Gaz. vol. 171; p. 478.
Morris Grocery Company, Clarksburg, W. Va. Wheat-flour. No. 81,403; Apr. 4; Gaz. vol. 165; p. 237.
Morris, Mann & Reilly, Chicago, Ill. Barrettes. No. 82,459; June 27; Gaz. vol. 167; p. 979.
Morrison, David, Gisborne, New Zealand. Playing-cards. No. 82,623; July 11; Gaz. vol. 168; p. 521.
Morton & Co., Alexander, Darvel, Scotland. Carpets. No. 83,931; Oct. 24; Gaz. vol. 171; p. 980.
Morton, Roland A., Augusta, Me. Remedies for certain diseases. No. 80,793; Jan. 31; Gaz. vol. 162; p. 1180.
Moseley & Motley Milling Co., Rochester, N. Y. Wheat-flour. No. 83,848; Oct. 17; Gaz. vol. 171; p. 740.
Moseley & Motley Milling Co., Rochester, N. Y. Wheat-flour. No. 84,022; Oct. 31; Gaz. vol. 171; p. 1254.
Moses Bros. Mill & Elevator Company, The, Great Bend, Kans. Wheat-flour. No. 81,899; May 16; Gaz. vol. 166; p. 748.
Motor Accessories Mfg. Co., Marshalltown, Iowa. Spark-plugs. No. 84,657; Dec. 26; Gaz. vol. 173; p. 1075.
Mountain Mill Paper Company, Lee, Mass. Writing-paper. No. 80,932; Feb. 14; Gaz. vol. 163; p. 478.
Mountain View Orange and Lemon Growers Association, Upland, Cal. Oranges and lemons. No. 84,023; Oct. 31; Gaz. vol. 171; p. 1254.
Mouzakiotis & Company, Kapantais, Chicago, Ill. Shoe-polish. No. 84,506; Dec. 19; Gaz. vol. 173; p. 858.
Muehlmatt, Adolph, Cincinnati, Ohio. Engraving-blocks. Nos. 82,460–1; June 27; Gaz. vol. 167; p. 979.
Muehlmatt, Adolph, Cincinnati, Ohio. Engravers', watch-makers, and jewelers' machines, tools, and dies. No. 82,528; July 4; Gaz. vol. 168; p. 246.
Mülhens & Kropff, New York, N. Y. Toilet water. No. 81,161; Mar. 7; Gaz. vol. 164; p. 246.
Mülhens & Kropff, New York, N. Y. Toilet soaps. No. 83,686; Oct. 3; Gaz. vol. 171; p. 210.
Müller & Co., A., Strassburg, Germany. Chewing-gum. No. 80,730; Jan. 24; Gaz. vol. 162; p. 996.
Müller & Co., Otto, Görlitz, Germany. Umbrella-covers. No. 80,933; Feb. 14; Gaz. vol. 163; p. 478.
Multiplex Display Fixture Co., St. Louis, Mo. Display-fixtures. No. 83,345; Sept. 5; Gaz. vol. 170; p. 240.
Munn & Co. Inc., New York, N. Y. Weekly periodicals. No. 84,333; Nov. 28; Gaz. vol. 172; p. 1086.
Munro, Donald, London, England. Eggs. No. 84,119; Nov. 7; Gaz. vol. 172; p. 256.
Munroe & Stevens, Daytona, Fla. Oranges, grape-fruit, and tangerines. No. 82,251; June 13; Gaz. vol. 167; p. 510.
Munyon Company, The, Philadelphia, Pa. Certain medicinal remedy. No. 81,734; May 2; Gaz. vol. 166; p. 247.
Murray, Thomas V., Dallas, Tex. Spectacles and eye-glasses, frames and mountings therefor. No. 82,013; May 23; Gaz. vol. 166; p. 983.
Mustel et Cie., Paris, France, and London, England. Organs and pianos. No. 83,933; Oct. 24; Gaz. vol. 171; p. 980.
Mustonen, Matts J., Newberry, Mich. Remedy for ulcers, sores, cancers, &c. No. 82,814; July 25; Gaz. vol. 168; p. 1029.
Myers, Alfred H., London, England. Preparations for softening and perfuming water for the bath. No. 81,900; May 16; Gaz. vol. 166; p. 748.
Myrlite Company of America, The, Pownal, Vt. Cleaner for wall-paper, glass, porcelain, &c. No. 84,507; Dec. 19; Gaz. vol. 173; p. 858.
Naamlooze Vennootschap Lym-En Gelatinefabrik "Delft," Delft, Netherlands. Glue and adhesive gelatin. No. 82,624; July 11; Gaz. vol. 168; p. 521.
Nam-trah Knitting & Spinning Co., Danville, Pa. Hosiery. No. 83,346; Sept. 5; Gaz. vol. 170; p. 240.
Nashawannuck Mfg. Co., Easthampton, Mass. Elastic webbing. No. 84,024; Oct. 31; Gaz. vol. 171; p. 1254.
Nashawannuck Mfg. Co., Easthampton, Mass. Suspenders. No. 84,025; Oct. 31; Gaz. vol. 171; p. 1254.
Nashville Hardwood Flooring Company, Nashville, Tenn. Flooring, square-edge strips, and wood flooring-squares. No. 81,091; Feb. 28; Gaz. vol. 163; p. 974.
Natchez Packing Company, Natchez, Miss. Lard compound. No. 82,165; June 6; Gaz. vol. 167; p. 238.
National-Acme Manufacturing Company, The, Cleveland, Ohio. Screws. Nos. 83,762–3; Oct. 10; Gaz. vol. 171; p. 478.
National-Acme Manufacturing Company, The, Cleveland, Ohio. Screws and screw-machine products. No. 84,120; Nov. 7; Gaz. vol. 172; p. 256.
National-Acme Manufacturing Company, The, Cleveland, Ohio. Metal-working and automatic multiple-spindle screw machines. No. 84,121; Nov. 7; Gaz. vol. 172; p. 256.
National-Acme Manufacturing Company, The, Cleveland, Ohio. Screws and screw-machine products. No. 84,122; Nov. 7; Gaz. vol. 172; p. 256.
National-Acme Manufacturing Company, The, Cleveland, Ohio. Screws. No. 84,252; Nov. 21; Gaz. vol. 172; p. 818.
National Anti-Tipping League, Dallas and New Braunfels, Tex. Badge-buttons. No. 81,816; May 9; Gaz. vol. 166; p. 508.
National Automatic Roll Advertising Company, New York, N. Y. Automatic advertising electrical machines. No. 83,934; Oct. 24; Gaz. vol. 171; p. 980.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. Nos. 81,404–5; Apr. 4; Gaz. vol. 165; p. 237.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 81,540; Apr. 18; Gaz. vol. 165; p. 726.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 81,817; May 9; Gaz. vol. 166; p. 508.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 82,529; July 4; Gaz. vol. 168; p. 246.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 83,858; Oct. 17; Gaz. vol. 171; p. 740.
National Candy Company, Jersey City, N. J., and St Louis, Mo. Candies. No. 81,619; Apr. 25; Gaz. vol. 165; p. 968.

Alphabetical list of registrants of trade-marks—Continued.

National Car Wheel Company, Rochester, N. Y., and Pittsburgh, Pa. Car-wheels. No. 83,764; Oct. 10; Gaz. vol. 171; p. 478.
National Carbon Company, Cleveland, Ohio. Certain electrical appliances. No. 80,866; Feb. 7; Gaz. vol. 163; p. 228.
National Casket Co., Oneida, N. Y. Name-blocks or saddles for caskets, coffins, &c. No. 81,818; May 9; Gaz. vol. 166; p. 508.
National Cleanser Mfg. Co., The, New York, N. Y. Scouring and polishing powder. No. 80,867; Feb. 7; Gaz. vol. 163; p. 228.
National Cloak & Suit Company, New York, N. Y. Cotton piece goods. No. 81,284; Mar. 21; Gaz. vol. 164; p. 736.
National Cob Pipe Works, Union, Mo. Pipes. No. 83,429; Sept. 12; Gaz. vol. 170; p. 478.
National Dictograph Co., New York, N. Y. Telephonic apparatus. No. 81,735; May 2; Gaz. vol. 166; p. 247.
National Enameling & Stamping Co., Baltimore, Md. Certain cooking utensils, kitchen and table ware. No. 80,934; Feb. 14; Gaz. vol. 163; p. 478.
National Fertilizer Co., Nashville, Tenn. Fertilizer. No. 83,430; Sept. 12; Gaz. vol. 170; p. 478.
National Fuel Oil Appliance Co., Los Angeles, Cal. Fuel-oil burners. No. 81,162; Mar. 7; Gaz. vol. 164; p. 246.
National Hydro-Carbon Company, Salt Lake City, Utah, and Pittsburg, Pa. Hydrocarbon compound used in paints, &c. No. 82,998; Aug. 8; Gaz. vol. 169; p. 446.
National India Rubber Co., Bristol, R. I. Certain rubber goods. No. 84,508; Dec. 19; Gaz. vol. 173; p. 858.
National Lead Co. of California, San Francisco, Cal. White lead. No. 83,175; Aug. 22; Gaz. vol. 169; p. 940.
National Metal Edge Box Company, Philadelphia, Pa. Metal stays for paper boxes. No. 80,935; Feb. 14; Gaz. vol. 163; p. 478.
National Metal Edge Box Company, Philadelphia, Pa. Stay-machines. No. 81,020; Feb. 21; Gaz. vol. 163; p. 724.
National Metal Edge Box Company, Philadelphia, Pa. Metal-stayed paper boxes. No. 81,163; Mar. 7; Gaz. vol. 164; p. 246.
National Musical String Co., New Brunswick, N. J. Strings for musical instruments. No. 81,021; Feb. 21; Gaz. vol. 163; p. 724.
National Papeterie Company, Springfield, Mass. Writing-paper and envelops. No. 81,475; Apr. 11; Gaz. vol. 165; p. 470.
National Piano Company, Portland, Me., and Boston, Mass. Certain musical instruments. No. 84,186; Nov. 14; Gaz. vol. 172; p. 546.
National Press, The, Chicago, Ill. Matrices, type-forms, electrotypes, &c. No. 80,541; Jan. 3; Gaz. vol. 162; p. 266.
National Roofing Company, The, Tonawanda, N. Y. Certain building materials. No. 80,936; Feb. 14; Gaz. vol. 163; p. 478.
National Roofing Company, The, Tonawanda, N. Y. Pigments, mixed paints, roofing-paints, varnishes, and stains. No. 81,022; Feb. 21; Gaz. vol. 163; p. 724.
National Roofing Company, The, Tonawanda, N. Y. Waterproofing paints, pigments, &c. No. 82,709; July 18; Gaz. vol. 168; p. 784.
National Scales Corporation, Lancaster, Pa. Computing and price scales. No. 83,935; Oct. 24; Gaz. vol. 171; p. 980.
National Shoe Polish Manufacturing Company, Philadelphia, Pa. Shoe polishes, dressings, and creams. No. 81,351; Mar. 28; Gaz. vol. 164; p. 972.
National Starch Company, Jersey City, N. J., and New York, N. Y. Starch for laundry, sizing, and stiffening. No. 81,092; Feb. 28; Gaz. vol. 163; p. 974.
National Starch Company, Jersey City, N. J., and New York, N. Y. Edible starch. No. 81,093; Feb. 28; Gaz. vol. 163; p. 974.
National Starch Company, Jersey City, N. J., and New York, N. Y. Laundry starch. Nos. 81,901–2; May 16; Gaz. vol. 166; p. 748.
National Starch Company, Jersey City, N. J., and New York, N. Y. Edible starch. Nos. 82,101–2; May 30; Gaz. vol. 166; p. 1278.
National Starch Company, Jersey City, N. J., and New York, N. Y. Laundry starch. No. 84,334; Nov. 28; Gaz. vol. 172; p. 1086.
National Thrift System Company, The, Wilkes-Barre, Pa. Automatic coin-receiver. No. 83,083; Aug. 15; Gaz. vol. 169; p. 698.
National Tube Flavor Co., Newark, N. Y. Food-flavors. No. 82,530; July 4; Gaz. vol. 168; p. 246.
National Utilization Co., Norfolk, Va. Tankage. No. 84,509; Dec. 19; Gaz. vol. 173; p. 859.
National Water Company, Waukesha, Wis., and New York, N. Y. Natural spring drinking-water. No. 84,658; Dec. 26; Gaz. vol. 173; p. 1075.
Nauen, Otto, New York, N. Y. Treads and protectors for rubber and pneumatic tires. No. 82,710; July 18; Gaz. vol. 168; p. 784.
Naumburg & Co., M. & W., New York, N. Y. Men's suits and overcoats. No. 84,026; Oct. 31; Gaz. vol. 171; p. 1254.
Naumkeag Steam Cotton Co., Salem, Mass. Cotton sheetings. No. 81,285; Mar. 21; Gaz. vol. 164; p. 736.
Nave-McCord Mercantile Company, St. Joseph, Mo. Roasted coffee. No. 81,541; Apr. 18; Gaz. vol. 165; p. 726.
Navy Publishing Co., The, Washington, D. C. Monthly magazines. No. 81,736; May 2; Gaz. vol. 166; p. 247.
Nawrath, John P., New York, N. Y. Cotton mops. No. 81,476; Apr. 11; Gaz. vol. 165; p. 470.
Nawrath, John P., New York, N. Y. Cotton mops. Nos. 83,347–9; Sept. 5; Gaz. vol. 170; p. 240.
Neagley, James K., Akron, Ohio. Tonic medicine. No. 82,625; July 11; Gaz. vol. 168; p. 521.
Needham, Veall & Tyzack, Ltd., Sheffield, England. Certain cutlery, machines, and tools. No. 84,660; Dec. 26; Gaz. vol. 173; p. 1076.
Neisz Company, A. J., Portland, Oreg. Soaps. No. 84,510; Dec. 19; Gaz. vol. 173; p. 859.
Nekarda, Mabel D., New York, N. Y. Dolls. No. 82,626; July 11; Gaz. vol. 168; p. 521.
Nekarda, Mabel D., New York, N. Y. Dolls. No. 82,999; Aug. 8; Gaz. vol. 169; p. 446.
Nelson Bros. Company, Alma, Mich. Internal-combustion engines and parts thereof. No. 83,271; Aug. 29; Gaz. vol. 169; p. 1181.
Nemuro Kanzume Kabushiki Kaisha, Hokkaido, Japan. Canned lobster, crabs, fish, and shell-fish. No. 83,000; Aug. 8; Gaz. vol. 169; p. 446.
Neptune Packing Co., Boothbay Harbor, Me., and Boston, Mass. Canned smoked sardines. No. 81,406; Apr. 4; Gaz. vol. 165; p. 238.
Nesbiscera Co., The, Keyser, W. Va. Antinauseant and stomach-regulator. No. 83,085; Aug. 15; Gaz. vol. 169; p. 698.
Nestlé & Anglo-Swiss Condensed Milk Co., Cham, Switzerland. Cocoa and chocolate with milk. No. 82,462; June 27; Gaz. vol. 167; p. 979.
Neuss, Hesslein & Co., New York, N. Y. Woven cotton plaids. No. 84,512; Dec. 19; Gaz. vol. 173; p. 859.
New Castle Polish Mfg. Co., New Castle, Pa. Polish for furniture, pianos, carriages, &c. No. 84,027; Oct. 31; Gaz. vol. 171; p. 1254.
New England Cereal Co., Norwalk, Conn. Cereal food. No. 80,795; Jan. 31; Gaz. vol. 162; p. 1180.
New England Fish Company, Portland, Me., and Boston, Mass. Frozen, fresh, and salt fish. No. 82,816; July 25; Gaz. vol. 168; p. 1029.
New Orleans Manufacturers Agency Co. Ltd., New Orleans, La. Canned sardines. No. 84,661; Dec. 26; Gaz. vol. 173; p. 1076.
New Prague Flouring Mill Company, New Prague, Minn. Wheat-flour. No. 81,408; Apr. 4; Gaz. vol. 165; p. 238.
"New-Way" Motor Company, The, Lansing, Mich. Spark-plugs. No. 82,350; June 20; Gaz. vol. 167; p. 759.
"New-Way" Motor Company, Lansing, Mich. Traction-engines and power spraying-machines. No. 83,003; Aug. 8; Gaz. vol. 169; p. 446.
New York Belting & Packing Company Limited, New York, N. Y., and Passaic, N. J. Belting composed of rubber and fabric. No. 81,352; Mar. 28; Gaz. vol. 164; p. 972.
New York Diatomite Company. (See Belknap, Charles H., assignor.)
New York Evening Journal Publishing Company, New York, N. Y. Periodical publication. No. 83,595; Sept. 26; Gaz. vol. 170; p. 924.
New York Evening Journal Publishing Company, New York, N. Y. Periodical publication. Nos. 84,662–6; Dec. 26; Gaz. vol. 173; p. 1076.
New York Herald Company, The, New York, N. Y. Pictures and illustrations published serially. Nos. 84,667–8; Dec. 26; Gaz. vol. 173; p. 1076.
New York Incandescent Lamp Company, New York, N. Y. Incandescent electric lamps. No. 82,351; June 20; Gaz. vol. 167; p. 759.
New York & London Drug Co., New York, N. Y. Perfumes. No. 83,086; Aug. 15; Gaz. vol. 169; p. 698.
New York & London Drug Co., New York, N. Y. Perfumes and face-powders. No. 83,087; Aug. 15; Gaz. vol. 169; p. 698.
New York Mills, The, New York Mills, N. Y. Sheetings, sheets, pillow and bolster cases. No. 80,671; Jan. 17; Gaz. vol. 162; p. 780.
New York & New Jersey Lubricant Company, New York, N. Y. Lubricating oils and greases. No. 82,712; July 18; Gaz. vol. 168; p. 784.
New York Revolving Portable Elevator Co., Jersey City, N. J. Portable tiering-machines. No. 84,669; Dec. 26; Gaz. vol. 173; p. 1076.
New York Stamping Company, Brooklyn, N. Y. Frying-pans, skillets, spiders, and griddles. No. 83,765; Oct. 10; Gaz. vol. 171; p. 478.
New York Stamping Company, Brooklyn, N. Y. Chafing-dishes, cooking utensils, &c. No. 84,253; Nov. 21; Gaz. vol. 172; p. 818.
New York Times Company, The, New York, N. Y. Newspapers. No. 83,176; Aug. 22; Gaz. vol. 169; p. 940.
New York Window Sign Co., New York, N. Y. Paper and cardboard signs and posters. No. 83,849; Oct. 17; Gaz. vol. 171; p. 740.
Newark Sign Co., Newark, N. J. Advertising-posters. No. 83,002; Aug. 8; Gaz. vol. 169; p. 446.

Alphabetical list of registrants of trade-marks—Continued.

Newberry Shoe Co., Huntington, W. Va. Leather boots and shoes. No. 82,627; July 11; Gaz. vol. 168; p. 521.
Newbold & Bulford, London, England. Eyeglasses, spectacles, and lenses. No. 80,542; Jan. 3; Gaz. vol. 162; p. 266.
Newburger & Bro., L., Cincinnati, Ohio. Cigars. No. 80,794; Jan. 31; Gaz. vol. 162; p. 1180.
Newlin, Isaac, New York, N. Y. Coffee. No. 81,407; Apr. 4; Gaz. vol. 165; p. 238.
Newman, Frederick H., South Norwalk, Conn. Metallic tea and coffee pots. No. 83,001; Aug. 8; Gaz. vol. 169; p. 446.
Newman, Henry, New York, N. Y. Puzzle apparatus and toys. No. 83,594; Sept. 26; Gaz. vol. 170; p. 924.
Newman, Julius C., Cleveland, Ohio. Cigars. No. 80,937; Feb. 14; Gaz. vol. 163; p. 478.
Newman, Julius C., Cleveland, Ohio. Cigars. No. 82,817; July 25; Gaz. vol. 168; p. 1029.
Newton, Chambers & Co. Limited, Thorncliffe, near Sheffield, England. Germicides and insecticides. No. 83,937; Oct. 24; Gaz. vol. 171; p. 980.
Niagara Alkali Co., Niagara Falls, N. Y. Caustic potash. No. 83,850; Oct. 17; Gaz. vol. 171; p. 740.
Niagara Silk Mills, North Tonawanda, N. Y. Silk hosiery, undershirts, vests, &c. No. 82,463; June 27; Gaz. vol. 167; p. 979.
Nice, Eugene E., Philadelphia, Pa. Priming paints. No. 81,737; May 2; Gaz. vol. 166; p. 247.
Nice, Eugene E., Philadelphia, Pa. Interior and exterior varnishes and oil-finishes. No. 83,506; Sept. 19; Gaz. vol. 170; p. 700.
Nickel Plate Stove Polish Co., Chicago, Ill. Compound for cleansing and scouring the hands, &c. No. 81,023; Feb. 21; Gaz. vol. 163; p. 724.
Nicolaou, George P. P., Salisbury, N. C. Hair-tonic. No. 84,335; Nov. 28; Gaz. vol. 172; p. 1086.
Niedringhaus & Koeneke, St. Louis, Mo. Composition for softening leather. No. 81,286; Mar. 21; Gaz. vol. 164; p. 736.
Nilsson, Axel W., assignor to Dreadnought Flooring Company, New York, N. Y. Interlocking composition floor-tiling; No. 80,938; Feb. 14; Gaz. vol. 163; p. 478.
Niswonger, Henry W., Fort Wayne, Ind. Scalp and hair tonic. No. 81,738; May 2; Gaz. vol. 166; p. 247.
Nitedals Tændstikfabrik, Östre Aker, near Christiania, Norway. Safety-matches. No. 81,287; Mar. 21; Gaz. vol. 164; p. 736.
Noble, Robert H., New York, N. Y. Sarsaparilla, celery, and ginger tonics. No. 82,628; July 11; Gaz. vol. 168; p. 521.
Noble, Robert H., New York, N. Y. Tonic. No. 84,123; Nov. 7; Gaz. vol. 172; p. 256.
Nocatee Fruit Company, Nocatee, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 81,477; Apr. 11; Gaz. vol. 165; p. 470.
Noiseless Typewriter Company, The, Middletown, Conn. Type-writing machines. No. 81,024; Feb. 21; Gaz. vol. 163; p. 724.
Noiseless Typewriter Company, The, Middletown, Conn. Type-writing machines. No. 81,543; Apr. 18; Gaz. vol. 165; p. 726.
Nonbreakable Toy Co., New York, N. Y. Toys. No. 84,670; Dec. 26; Gaz. vol. 173; p. 1076.
Nonquitt Spinning Company, New Bedford, Mass. Cotton yarns. No. 84,028; Oct. 31; Gaz. vol. 171; p. 1254.
North American Hat Company, Danbury, Conn., and Fall River, Mass. Hats and caps. No. 83,350; Sept. 5; Gaz. vol. 170; p. 240.
North American Mercantile Co., San Francisco, Cal. Canned crab-meat. No. 83,851; Oct. 17; Gaz. vol. 171; p. 740.
North American Mercantile Co., San Francisco, Cal. Canned crab-meat. Nos. 84,513–14; Dec. 19; Gaz. vol. 173; p. 859.
North Fork Fruit Growers Association, The, Paonia, Colo. Fresh apples in boxes. No. 80,731; Jan. 24; Gaz. vol. 162; p. 996.
North Pacific Trading & Packing Co., San Francisco, Cal. Canned salmon. No. 82,713; July 18; Gaz. vol. 168; p. 784.
Northeastern Company, The, Boston, Mass. Chemical wood-preservative, disinfectant, and insecticide. No. 84,124; Nov. 7; Gaz. vol. 172; p. 256.
Northern Fire Apparatus Co., Minneapolis, Minn. Chemical fire-extinguishers. No. 83,088; Aug. 15; Gaz. vol. 169; p. 698.
Northrup Glove M'fg. Co., Johnstown, N. Y. Gloves and mittens. No. 81,288; Mar. 21; Gaz. vol. 164; p. 736.
Northwestern Consolidated Milling Company, The, Minneapolis, Minn. Wheat-flour. No. 81,164; Mar. 7; Gaz. vol. 164; p. 246.
Northwestern Expanded Metal Co., Chicago, Ill. Expanded metal. No. 82,531; July 4; Gaz. vol. 168; p. 246.
Norton Company, Worcester, Mass. Abrasives, abrasive wheels, polishing and grinding grains, &c. No. 82,611; July 11; Gaz. vol. 168; p. 520.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Certain sporting goods. No. 81,289; Mar. 21; Gaz. vol. 164; p. 736.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Certain hardware. No. 81,290; Mar. 21; Gaz. vol. 164; p. 736.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Enamel metal ware. No. 81,409; Apr. 4; Gaz. vol. 165; p. 238.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Wrapping-paper. No. 82,014; May 23; Gaz. vol. 166; p. 983.
Norvell-Shapleigh Hardware Company, St. Louis, Mo. Certain tools. No. 82,015; May 23; Gaz. vol. 166; p. 983.
Norwine Coffee Company, St. Louis, Mo. Baking-powder. No. 83,596; Sept. 26; Gaz. vol. 170; p. 924.
Norwine Coffee Company, St. Louis, Mo. Coffee. No. 84,187; Nov. 14; Gaz. vol. 172; p. 546.
Nourrilean Remedy Company, Chicago, Ill. Remedy for diseases of the bowels and stomach. No. 84,671; Dec. 26; Gaz. vol. 173; p. 1076.
Nowak & Son, A., Buffalo, N. Y. Wheat-flour. Nos. 84,029–30; Oct. 31; Gaz. vol. 171; p. 1254.
Nugget Polish Co., Ltd., The, London, England. Certain polishing materials. No. 82,629; July 11; Gaz. vol. 168; p. 521.
Nugget Polish Co., Limited, The, London, England. Satchels. No. 84,031; Oct. 31; Gaz. vol. 171; p. 1254.
Nulac Company, Portland, Oreg. Scouring preparation. No. 83,272; Aug. 29; Gaz. vol. 169; p. 1181.
Nutt, Carlotta G., New York, N. Y. Hair tonic and dressing. No. 83,938; Oct. 24; Gaz. vol. 171; p. 980.
O. A. Miller Treeing Machine Company, Portland, Me., and Boston, Mass. Boot and shoe trees, shoe forms, lasts, and followers. No. 83,592; Sept. 26; Gaz. vol. 170; p. 924.
O. K. Nut Lock Company, The, Providence, R. I. Bolts, washers, and lock-nuts. No. 82,818; July 25; Gaz. vol. 168; p. 1029.
O'Brien, Ellen D., New York, N. Y. Hair and scalp tonic. No. 82,352; June 20; Gaz. vol. 167; p. 759.
O'Callaghan & Fedden, New York, N. Y. Stockings. No. 81,094; Feb. 28; Gaz. vol. 163; p. 974.
O'Keefe, Patrick F., Boston, Mass. Toilet preparations, antiseptic powder, and a deodorant. No. 83,940; Oct. 24; Gaz. vol. 171; p. 980.
O'Neill, Henry G., Detroit, Mich. Incandescent-gas-lighting apparatus. No. 80,675; Jan. 17; Gaz. vol. 162; p. 780.
O'Shea, William, Kansas City, Mo. Liquid beverage preparation. No. 82,465; June 27; Gaz. vol. 167; p. 979.
O'Sullivan Rubber Company, Lowell, Mass. Rubber heels. No. 83,274; Aug. 29; Gaz. vol. 169; p. 1181.
Oachs, Milford H., New York, N. Y. Brass-polish and oil-polish. No. 83,431; Sept. 12; Gaz. vol. 170; p. 478.
Oakford and Fahnestock, Peoria, Ill. Certain chemicals. No. 82,630; July 11; Gaz. vol. 168; p. 521.
Oakland Brewing & Malting Co., Oakland, Cal. Lager-beer. No. 83,351; Sept. 5; Gaz. vol. 170; p. 240.
Oakley Chemical Co., New York, N. Y. Granulated chemical cleansing compound. No. 80,673; Jan. 17; Gaz. vol. 162; p. 780.
Oakley, Clifford H., Trenton, N. J. Rubber and asbestos packing. No. 81,478; Apr. 11; Gaz. vol. 165; p. 470.
Oakville Company, Waterbury, Conn. Toilet and safety pins. No. 84,515; Dec. 19; Gaz. vol. 173; p. 859.
Oberg, Sophia, Pueblo, Colo. Liniment. No. 83,852; Oct. 17; Gaz. vol. 171; p. 740.
Oemler, Augustus, Savannah, Ga. Canned oysters. No. 81,410; Apr. 4; Gaz. vol. 165; p. 238.
Offterdinger, Henry T., Washington, D. C. Cigars. No. 81,291; Mar. 21; Gaz. vol. 164; p. 736.
Offutt, Mary P., Milton, Mass. Infants' clothes. No. 80,796; Jan. 31; Gaz. vol. 162; p. 1180.
Ohio Confection Co., Cleveland, Ohio. Nut-cakes and fruit-cakes. No. 81,620; Apr. 25; Gaz. vol. 165; p. 968.
Ohio Injector Company, The, Wadsworth, Ohio. Valves and parts of same. No. 81,903; May 16; Gaz. vol. 166; p. 748.
Ohio Match Company, The, Wadsworth, Ohio. Matches. No. 82,016; May 23; Gaz. vol. 166; p. 983.
Ohio Rake Company, Dayton, Ohio. Plant-setters, potato-diggers, and vegetable-digging machines. No. 83,939; Oct. 24; Gaz. vol. 171; p. 980.
Ohio & Western Lime Co., Marion, Ohio. Lime. No. 82,103; May 30; Gaz. vol. 166; p. 1278.
Old Bleach Linen Company, The, Limited, Randalstown, Ireland. Certain textile fabrics. No. 82,714; July 18; Gaz. vol. 168; p. 784.
Oleon Chemical Co., The, Washington, D. C. Remedy for throat and lung diseases, &c. No. 81,739; May 2; Gaz. vol. 166; p. 247.
Olney & Floyd, Westernville, N. Y. Canned vegetables. No. 80,610; Jan. 10; Gaz. vol. 162; p. 534.
Olney & Floyd, Westernville, N. Y. Canned vegetables. Nos. 80,797–8; Jan. 31; Gaz. vol. 162; p. 1180.
Omaha Lumber & Coal Company, Omaha, Nebr. Coal. No. 83,273; Aug. 29; Gaz. vol. 169; p. 1181.
Omaha Oil Company, Omaha, Nebr. Kerosene, gasolene, lubricating-oils, and lubricants. No. 80,940; Feb. 14; Gaz. vol. 163; p. 478.

Alphabetical list of registrants of trade-marks—Continued.

Omo Manufacturing Company, The, Middletown, Conn. Napkins for children. No. 83,177; Aug. 22; Gaz. vol. 169; p. 940.
Omo Manufacturing Company, The, Middletown, Conn. Dress-shields. No. 83,352; Sept. 5; Gaz. vol. 170; p. 240.
Oneida Community, Limited, Oneida, N. Y. Spoons. No. 82,907; Aug. 1; Gaz. vol. 169; p. 200.
Oneida Community, Limited, Oneida, N. Y. Spool-silk. No. 83,432; Sept. 12; Gaz. vol. 170; p. 478.
Oneida Community, Limited, Oneida, N. Y. Certain hardware. No. 83,507; Sept. 19; Gaz. vol. 170; p. 700.
Opal Gum Co. Inc., Minneapolis, Minn. Chewing-gum. No. 82,252; June 13; Gaz. vol. 167; p. 510.
Oppenheim, Moses, New York, N. Y. Leather shoes. No. 83,344; Sept. 5; Gaz. vol. 170; p. 240.
Oppenheim, Oberndorf & Co., Baltimore, Md. Men's cotton overshirts. No. 80,732; Jan. 24; Gaz. vol. 162; p. 996.
Oppenheim, Oberndorf & Co., Baltimore, Md. Shirts. No. 82,464; June 27; Gaz. vol. 167; p. 979.
Oppenheim, Oberndorf & Co., Baltimore, Md. Men's shirts. No. 84,032; Oct. 31; Gaz. vol. 171; p. 1254.
Oppenheim, Oberndorf & Co., Baltimore, Md. Shirtwaists. No. 84,033; Oct. 31; Gaz. vol. 171; p. 1254.
Oppenheim, Oberndorf & Co., Baltimore, Md. Night-shirts. No. 84,034; Oct. 31; Gaz. vol. 171; p. 1254.
Oppenheim, Oberndorf & Co., Baltimore, Md. Undershirts and drawers of textile material. No. 84,516; Dec. 19; Gaz. vol. 173; p. 859.
Oppenheimer & Company, S., New York, N. Y., and Chicago, Ill. Sausage-binder. No. 84,126; Nov. 7; Gaz. vol. 172; p. 256.
Oprechte Haarlemmer Olie Fabriek (voorheen onder de firma G. de Koning Tilly), Haarlem, Netherlands. Haarlem oil. No. 81,819; May 9; Gaz. vol. 166; p. 508.
Optische Anstalt C. P. Goerz Aktiengesellschaft, Friedenau, near Berlin, Germany. Photographic apparatus. No. 83,089; Aug. 15; Gaz. vol. 169; p. 698.
Orange Judd Company, New York, N. Y. Serial magazines. No. 80,611; Jan. 10; Gaz. vol. 162; p. 534.
Orange Judd Company, New York, N. Y. Serial magazines. No. 81,292; Mar. 21; Gaz. vol. 164; p. 736.
Ord, Edward O. C., Berkeley, Cal. Dish-pans. No. 84,517; Dec. 19; Gaz. vol. 173; p. 859.
Orro Manufacturing Co., The, New York, N. Y. Embossing machines and tools. No. 82,715; July 18; Gaz. vol. 168; p. 784.
Osborn & Sattig, New Haven, Conn. Laundry starch. No. 81,621; Apr. 25; Gaz. vol. 165; p. 968.
Osorio, Lamberto, Pachuca, Mexico. Purgatives anl laxatives. No. 84,672; Dec. 26; Gaz. vol. 173; p. 1076.
Ostby and Barton Company, Providence, R. I. Finger-rings. No. 82,631; July 11; Gaz. vol. 168; p. 521.
Ostby and Barton Company, Providence, R. I. Certain jewelry. No. 82,632; July 11; Gaz. vol. 168; p. 521.
Ostby and Barton Company, Providence, R. I. Finger-rings. No. 82,716; July 18; Gaz. vol. 168; p. 784.
Osteopathy Supply Company, New York, N. Y. Antiseptic and remedial preparation. No. 80,868; Feb. 7; Gaz. vol. 163; p. 228.
Otis Co., Ware, Mass. Cotton piece goods. No. 81,227; Mar. 14; Gaz. vol. 164; p. 504.
Otoupalik, Frances, David City, Nebr. Blood-purifier, herb tea, lung tea and balsam, &c. No. 83,766; Oct. 10; Gaz. vol. 171; 478.
Otto Kuehne Preserving Co., Topeka, Kans. Certain canned goods. No. 81,084; Feb. 28; Gaz. vol. 163; p. 974.
Ouerbacker Coffee Company, The, Louisville, Ky. Baking powder and soda. No. 82,633; July 11; Gaz. vol. 168; p. 521.
Ouerbacker Coffee Company, The, Louisville, Ky. Spices and rice. No. 83,179; Aug. 22; Gaz. vol. 169; p. 940.
Overland Cereals Company, Laramie, Wyo. Wheat-flour. No. 82,717; July 18; Gaz. vol. 168; p. 784.
Overton, Anthony, Kansas City, Kans. Talcum powder, face powder and cream, toilet water, and perfume. No. 83,941; Oct. 24; Gaz. vol. 171; p. 980.
Owatonna Manufacturing Company, Owatonna, Minn. Combined churns and butter-workers. No. 83,180; Aug. 22; Gaz. vol. 169; p. 940.
Owl Chemical Company, Terre Haute, Ind. Salve. No. 82,466; June 27; Gaz. vol. 167; p. 979.
Oxygenator Co., The, Buffalo, N. Y. Oxygenators. No. 80,612; Jan. 10; Gaz. vol. 162; p. 534.
Oxygenator Co., The, Buffalo, N. Y. Oxygenators. No. 82,467; June 27; Gaz. vol. 167; p. 979.
P. H. Glatfelter Company, Spring Grove, Pa. Paper used for books, booklets, and brochures. No. 84,176; Nov. 14; Gaz. vol. 172; p. 545.
Paas Dye Company, Newark, N. J. Egg-dyes. Nos. 82,104–5; May 30; Gaz. vol. 166; p. 1278.
Pacific American Fisheries, Chicago, Ill. Canned salmon. Nos. 81,095–6; Feb. 28; Gaz. vol. 163; p. 974.
Pacific American Fisheries, Chicago, Ill. Canned salmon. No. 81,165; Mar. 7; Gaz. vol. 163; p. 246.
Pacific American Fisheries, Chicago, Ill. Canned salmon. No. 81,411; Apr. 4; Gaz. vol. 165; p. 238.
Pacific Mills, Lawrence and Boston, Mass. Wool and cotton piece goods. No. 80,869; Feb. 7; Gaz. vol. 163; p. 228.

Packard Electric Co., The, Warren, Ohio. Electric-lamp regulators. No. 83,353; Sept. 5; Gaz. vol. 170; p. 240.
Painting Machine Company, Kittery, Me., and Boston, Mass. Boards of wood and fiber. No. 82,718; July 18; Gaz. vol. 168; p. 784.
Palisade Manufacturing Co., The, Yonkers, N. Y. Medicinal cordial. No. 81,166; Mar. 7; Gaz. vol. 164; p. 246.
Palmer & Co., Sioux City, Iowa. Chocolate candy. No. 82,166; June 6; Gaz. vol. 167; p. 238.
Palmer, Eddy, New York, N. Y., assignor to S. Palmer. Perfumes. Nos. 82,634–5; July 11; Gaz. vol. 168; p. 521.
Palmer, Robert R., Atlanta, Ga. Tonic. No. 84,336; Nov. 28; Gaz. vol. 172; p. 1086.
Palmer, Solon. (See Palmer, Eddy, assignor.)
Pantasote Leather Company, Passaic, N. J. Waterproof fabrics. No. 83,853; Oct. 17; Gaz. vol. 171; p. 740.
Pantol Manufacturing Company, New York, N. Y. Polishing, renovating, cleaning, and lubricating oils. No. 84,127; Nov. 7; Gaz. vol. 172; p. 256.
Papierfabrik Hahnemühle Gesellschaft mit beschränkter Haftung, Relliehausen, near Dassel, Germany. Filtering paper, pasteboard, and paper blocks. No. 84,188; Nov. 14; Gaz. vol. 172; p. 546.
Paraffine Paint Company, The, San Francisco, Cal. Paint. No. 80,941; Feb. 14; Gaz. vol. 163; p. 478.
Paraffine Paint Company, The, San Francisco, Cal. Refined asphalt. No. 81,479; Apr. 11; Gaz. vol. 165; p. 470.
Paramount Knitting Company, Chicago, Ill. Hosiery. Nos. 83,090–1; Aug. 15; Gaz. vol. 169; p. 698.
Paramount Knitting Company, Chicago, Ill. Hosiery. No. 84,035; Oct. 31; Gaz. vol. 171; p. 1254.
Pardi, Elinto, Brooklyn, N. Y. Certain named remedy. No. 82,468; June 27; Gaz. vol. 167; p. 979.
Parish, John D., Chicago, Ill. Compound of popped corn, nuts, and sweetening binding matter. No. 81,904; May 16; Gaz. vol. 166; p. 748.
Park & Pollard Company, The, Boston, Mass. Incubators. No. 83,597; Sept. 26; Gaz. vol. 170; p. 924.
Park & Tilford, New York, N. Y. Wine. No. 82,636; July 11; Gaz. vol. 168; p. 521.
Park & Tilford, New York, N. Y. Sherry-wine. No. 82,819; July 25; Gaz. vol. 168; p. 1029.
Parker, Bedell, New York, N. Y. Belts, neckties, stocks, jabots, &c. No. 80,613; Jan. 10; Gaz. vol. 162; p. 534.
Parker, Bedell, New York, N. Y. Certain clothing. No. 80,614; Jan. 10; Gaz. vol. 162; p. 534.
Parker Brothers, Salem, Mass. Card games. No. 82,637; July 11; Gaz. vol. 168; p. 521.
Parker-Browne Company, Fort Worth, Tex. Preparation for producing foam in beverages. No. 81,412; Apr. 4; Gaz. vol. 165; p. 238.
Parker, Frank A., Rochester, N. Y. Remedy for rheumatism, neuralgia, and lumbago. No. 82,167; June 6; Gaz. vol. 167; p. 238.
Parker, Holmes & Co., Boston, Mass. Leather boots and shoes. No. 82,106; May 30; Gaz. vol. 166; p. 1278.
Parker Supply Co., Kittery, Me., and Boston, Mass. Dusters, mops, brushes, &c. No. 82,004; Aug. 8; Gaz. vol. 169; p. 446.
Parkhill Manufacturing Company, Fitchburg, Mass. Ginghams. No. 80,677; Jan. 17; Gaz. vol. 162; p. 780.
Parmele Pharmacal Company, Portland, Me., and New York, N. Y. Suppositories. No. 82,353; June 20; Gaz. vol 167; p. 759.
Parrett, Richard J., Elkhart, Ind. Remedy for certain diseases, a laxative, and a nerve-tonic. No. 80,615; Jan. 10; Gaz. vol. 162; p. 534.
Parry Manufacturing Company, Indianapolis, Ind. Certain vehicles. No. 80,678; Jan. 17; Gaz. vol. 162; p. 780.
Parsons Paper Co., Holyoke, Mass. Bristol-board for card-indexes and cover-paper. No. 84,404; Dec. 12; Gaz. vol. 173; p. 580.
Parsons Trading Company, New York, N. Y. Paper, envelops, pens, and copying-presses. No. 82,532; July 4; Gaz. vol. 168; p. 246.
Partos, Cornel, New York, N. Y. Laxative candy lozenges. No. 82,820; July 25; Gaz. vol. 168; p. 1029.
Pasman, Abram N., Jersey City, N. J. Flush-valves. No. 81,905; May 16; Gaz. vol. 166; p. 748.
Pass & Seymour, Inc., Solvay, N. Y. Electric-lamp sockets and receptacles. No. 82,253; June 13; Gaz. vol. 167; p. 510.
Pasteur-Chamberland Filter Company, The, Dayton, Ohio. Metal thermoplates. No. 82,354; June 20; Gaz. vol. 167; p. 759.
Patton Paint Company, Milwaukee, Wis. Ready-mixed paint. No. 81,228; Mar. 14; Gaz. vol. 164; p. 504.
Paul Brothers, Philadelphia, Pa. Children's boots and shoes. No. 81,025; Feb. 21; Gaz. vol. 163; p. 724.
Paul E. Lehman Co., New York, N. Y. Ice-creepers. No. 82,698; July 18; Gaz. vol. 168; p. 784.
Paul F. Beich Company, Bloomington, Ill. Chocolates. No. 83,810; Oct. 17; Gaz. vol. 171; p. 739.
Peace Remedy Company, New York, N. Y. Indigestion-tablets. No. 82,355; June 20; Gaz. vol. 167; p. 759.
Peerless Machinery Company, Boston, Mass. Certain machinery and tools for leather goods. No. 84,673; Dec. 26; Gaz. vol. 173; p. 1076.

Alphabetical list of registrants of trade-marks—Continued.

Peerless Oyster Co., Baltimore, Md. Poultry food. No. 84,518; Dec. 19; Gaz. vol. 173; p. 859.
Peerless Portland Cement Company, Union City, Mich. Portland cement. No. 84,519; Dec. 19; Gaz. vol. 173; p. 859.
Peerless Rubber Manufacturing Company, New Durham, N. J., and New York, N. Y. Rubber, fabric, and combined rubber and fabric hose. No. 82,356; June 20; Gaz. vol. 167; p. 759.
Peerless Rubber Manufacturing Company, New Durham, N. J., and New York, N. Y.. Packing. Nos. 82,357–8; June 20; Gaz. vol. 167; p. 759.
Peerless Rubber Manufacturing Company, New Durham, N. J., and New York, N. Y. Packing. No. 82,908; Aug. 1; Gaz. vol. 169; p. 200.
Peffle, William H., Philadelphia, Pa. Remedy for piles No. 81,821; May 9; Gaz. vol. 166; p. 508.
Pelican Lake Oyster & Packing Co., Houma, La. Canned oysters and shrimp. No. 81,622; Apr. 25; Gaz. vol. 165; p. 968.
Penard & Mrs. Agness Myers, Joseph, Lawrence, Mass. Medicine for rheumatism. No. 81,097; Feb. 28; Gaz. vol. 163; p. 974.
Peninsular Chemical Co., Detroit, Mich. Certain medicinal remedies. No. 81,544; Apr. 18; Gaz. vol. 165; p. 726.
Penketh Tanning Co., Ld., The, Penketh, near Warrington, England. Sole-leather. No. 83,433; Sept. 12; Gaz. vol. 170; p. 478.
Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Flexible metallic tubing. No. 80,870; Feb. 7; Gaz. vol. 163; p. 228.
Pennsylvania Specialty Co., Philadelphia, Pa. Paints, fillers, japans, and varnishes. No. 81,545; Apr. 18; Gaz. vol. 165; p. 726.
Pennsylvania Steel Company, The, Steelton and Philadelphia, Pa. Ingots, blooms, slabs, and billets. No. 81,167; Mar. 7; Gaz. vol. 164; p. 246.
Penny, George F., Philadelphia, Pa. Rugs of textile fabrics. No. 84,520; Dec. 19; Gaz. vol. 173; p. 859.
Peoples Municipal and Highway Paving Company, Chicago, Ill. Bituminous cements. No. 84,036; Oct. 31; Gaz. vol. 171; p. 1254.
Perel, Max, Baltimore, Md. Sedlitz-powders. No. 84,337; Nov. 28; Gaz. vol. 172; p. 1086.
Perez, Maurice E. C. J., Paris, France. Sparking plugs. No. 81,168; Mar. 7; Gaz. vol. 164; p. 246.
Perfect Fit Hosiery Co., New York, N. Y. Knitted and textile undershirts, drawers, &c. No. 81,293; Mar. 21; Gaz. vol. 164; p. 736.
Perfect Fit Hosiery Co., New York, N. Y. Hosiery. No. 83,767; Oct. 10; Gaz. vol. 171; p. 478.
Perolin Co. of America, The, Chicago, Ill. Sweeping compounds. No. 80,799; Jan. 31; Gaz. vol. 162; p. 1180.
Perry Manufacturing Company, The, Denver, Colo. Vacuum cleaning-machines. No. 80,871; Feb. 7; Gaz. vol. 163; p. 228.
Peru Canning Company, Peru, Ind. Canned vegetables. No. 81,413; Apr. 4; Gaz. vol. 165; p. 238.
Peru Milling Company, Peru, Ind. Wheat-flour. No. 81,098; Feb. 28; Gaz. vol. 163; p. 974.
Peters Manufacturing Co., Boston, Mass. Cotton and cotton and woolen cloth in the piece. No. 81,624; Apr. 25; Gaz. vol. 165; p. 968.
Pettet, Robert S., Philadelphia, Pa. Adhesive cement. No. 84,037; Oct. 31; Gaz. vol. 171; p. 1254.
Pfeiffer, Leopold, Vienna, Austria-Hungary. Hair-nets. No. 80,544; Jan. 3; Gaz. vol. 162; p. 266.
Pfleiderer, Emil, Syracuse, N. Y. Fire-tiles. No. 80,942; Feb. 14; Gaz. vol. 163; p. 478.
Phelps, James C., Springfield, Mass. Electric-conduit fittings. No. 82,254; June 13; Gaz. vol. 167; p. 510.
Phelps, Krag & Co., Detroit, Mich. Coffee and tea. No. 81,741; May 2; Gaz. vol. 166; p. 247.
Phil Hollenbach Co., Louisville, Ky. Gin. No. 83,580; Sept. 26; Gaz. vol. 170; p. 924.
Philadelphia Novelty Manufacturing Company, The, Philadelphia, Pa. Hair crimpers, wavers, and builders. No. 84,038; Oct. 31; Gaz. vol. 171; p. 1254.
Philadelphia Quartz Company, Philadelphia, Pa. Soap. No. 80,733; Jan. 24; Gaz. vol. 162; p. 996.
Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. Nos. 80,943–50; Feb. 14; Gaz. vol. 163; p. 478.
Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. No. 81,099; Feb. 28; Gaz. vol. 163; p. 974.
Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. No. 81,353; Mar. 28; Gaz. vol. 164; p. 972.
Philadelphia Seed Co., Inc., The, Philadelphia, Pa. Certain named seeds. Nos. 84,406–7; Dec. 12; Gaz. vol. 173; p. 580.
Philadelphia Watch Case Co., Riverside, N. J., assignor to The Keystone Watch Case Company, Philadelphia, Pa. Watches. No. 81,625; Apr. 25; Gaz. vol. 165; p. 968.
Phillips & Sheedy, Boston, Mass. Coffee. No. 84,254; Nov. 21; Gaz. vol. 172; p. 818.
Phillips & Sons, Godfrey, London, England. Smoking-tobacco and cigarettes. No. 80,800; Jan. 31; Gaz. vol. 162; p. 1180.
Phoenix Knitting Works, Milwaukee, Wis. Hose. No. 84,521; Dec. 19; Gaz. vol. 173; p. 859.
Phoenix Packing Co. Ltd., The, Bergen, Norway. Canned sardines. No. 83,381; Sept. 5; Gaz. vol. 170; p. 241.
Physicians & Surgeons Appliance Co., Milwaukee, Wis., and Chicago, Ill. Suspensory belts. No. 80,616; Jan. 10; Gaz. vol. 162; p. 534.
Piccardo Macaroni Company, Pittsburgh, Pa. Macaroni, spaghetti, vermicilli, pastes, &c. No. 84,674; Dec. 26; Gaz. vol. 173; p. 1076.
Pickel, Victoria M., Columbus, Ohio. Salve. No. 81,822; May 9; Gaz. vol. 166; p. 508.
Piedmont Candy Co., Atlanta, Ga. Certain confection. No. 83,508; Sept. 19; Gaz. vol. 170; p. 700.
Pierce, Austin-Caswell, Livermore Co., Boston, Mass. Cured fish, canned fruits and vegetables. No. 82,255; June 13; Gaz. vol. 167; p. 510.
Pillar Bay Packing Co., Seattle and Bellingham, Wash., and Point Ellis, Alaska. Canned salmon. Nos. 83,854–5; Oct. 17; Gaz. vol. 171; p. 740.
Pillar Bay Packing Co., Seattle and Bellingham, Wash., and Point Ellis, Alaska. Canned salmon. No. 84,039; Oct. 31; Gaz. vol. 171; p. 1254.
Pillar Bay Packing Co., Seattle and Bellingham, Wash., and Point Ellis, Alaska. Canned salmon. No. 84,255; Nov. 21; Gaz. vol. 172; p. 818.
Pioneer Iron Company, Marquette, Mich. Formaldehyde. Nos. 82,909–10; Aug. 1; Gaz. vol. 169; p. 200.
Pioneer Mills, Louisville, Ky. Wheat-flour. No. 82,017; May 23; Gaz. vol. 166; p. 983.
Piper, Joseph G., Rockland, Me. Christmas trees. No. 84,408; Dec. 12; Gaz. vol. 173; p. 580.
Pirazzi & Söhne, G., Offenbach-on-the-Main, Germany. Certain musical instruments and their parts. No. 84,370; Dec. 5; Gaz. vol. 173; p. 283.
Pisapia & Co., G., New York, N. Y. Cigars. No. 83,434; Sept. 12; Gaz. vol. 170; p. 478.
Pista, B., Watsonville, Cal. Fresh apples. No. 83,509; Sept. 19; Gaz. vol. 170; p. 700.
Pitre Bros., Donaldsonville, La. Liniments. No. 81,906; May 16; Gaz. vol. 166; p. 748.
Pittman Ink Company, Battle Creek, Mich. Edge-ink. No. 81,026; Feb. 21; Gaz. vol. 163; p. 724.
Pittman Medicine Co., Fitzgerald, Ga., assignor to Raney Medicine Company. Remedy for the treatment of certain diseases. No. 83,857; Oct. 17; Gaz. vol. 171; p. 740.
Pittsburg Dry Goods Company, The, Pittsburg, Pa. Hosiery. Nos. 82,169–70; June 6; Gaz. vol. 167; p. 238.
Pittsburg Meter Company, East Pittsburgh, Pa. Fluid-meters. Nos. 83,768–9; Oct. 10; Gaz. vol. 171; p. 478.
Pittsburgh Dry Goods Company, The, Pittsburg, Pa. Cotton bedspreads. No. 82,719; July 18; Gaz. vol. 168; p. 784.
Pittsburgh Dry Goods Company, The, Pittsburg, Pa. Comforts. No. 82,821; July 25; Gaz. vol. 168; p. 1029.
Pittsburgh Dry Goods Company, The, Pittsburg, Pa. Cotton blankets. No. 82,822; July 25; Gaz. vol. 168; p. 1029.
Pittsburgh Steel Co., Pittsburg and Monessen, Pa. Metallic fence. No. 82,256; June 13; Gaz. vol. 167; p. 510.
Pittsburgh Steel Co., Pittsburg and Monessen, Pa. Nails and barb-wire. No. 83,092; Aug. 15; Gaz. vol. 169; p. 698.
Pittsburgh Steel Company, Pittsburg, Pa. Steel wire. No. 83,510; Sept. 19; Gaz. vol. 170; p. 700.
Pittsburgh Steel Products Co., Pittsburg, Pa. Seamless steel tubing. No. 81,294; Mar. 21; Gaz. vol. 164; p. 736.
Pittston Stove Co., Pittston, Pa. Stoves, ranges, and warm-air furnaces. No. 82,911; Aug. 1; Gaz. vol. 169; p. 200.
Plansifter Milling Company, Oklahoma, Okla. Wheat-flour. No. 82,533; July 4; Gaz. vol. 168; p. 246.
Plastergon Wall Board Co., Tonawanda, N. Y. Wall-board. No. 84,522; Dec. 19; Gaz. vol. 173; p. 859.
Plomo Specialty Manufacturing Company, The, Cleveland, Ohio. Liquid power-belt-dressing compound. No. 83,354; Sept. 5; Gaz. vol. 170; p. 240.
Plouff, Fred H., Boston, Mass. Gage-glasses. No. 80,801; Jan. 31; Gaz. vol. 162; p. 1180.
Plover Paper Company, Plover, Wis. Writing and printing paper. No. 81,354; Mar. 28; Gaz. vol. 164; p. 972.
Plumb, Chas. L., Cranford, N. J., and New York, N. Y. Cornmeal. No. 81,626; Apr. 25; Gaz. vol. 165; p. 968.
Plummer, Walter A., San Francisco, Cal. Water-bags. No. 81,229; Mar. 14; Gaz. vol. 164; p. 504.
Plymouth Mills, Lawrence, Mass., and New York, N. Y. Rugs and carpets. No. 81,355; Mar. 28; Gaz. vol. 164; p. 972.
Pneuvac Company, Boston, Mass. Vacuum-cleaners. Nos. 83,275–6; Aug. 29; Gaz. vol. 169; p. 1181.
Pohl, Firm of G. Schönbaum, near Danzig, Germany. Capsules. No. 83,687; Oct. 3; Gaz. vol. 171; p. 210.
Pomeroy, Theodore J, Guadalajara, Mexico. Hair-tonic. No. 83,688; Oct. 3; Gaz. vol. 171; p. 210.
Pompeian Co., The, Incorporated, Washington, D. C. Cotton-seed salad-oil. No. 84,040; Oct. 31; Gaz. vol. 171; p. 1255.
Pompeian Co., The, Incorporated, Washington, D. C. Canned and bottled olive-oil. No. 84,041; Oct. 31; Gaz. vol. 171; p. 1255.

Alphabetical list of registrants of trade-marks—Continued.

Popper, Gray & Co., New York, N. Y. Soft cured cheese. No. 82,171; June 6; Gaz. vol. 167; p. 238.
Popular Dry Goods Co., El Paso, Tex. Coats, vests, and trousers. No. 82,257; June 13; Gaz. vol. 167; p. 511.
Porterfield, Henry A., Pittsburg, Pa. Lubricating and illuminating oils and greases. No. 81,415; Apr. 4; Gaz. vol. 165; p. 238.
Post, Charles H., New York, N. Y. Rosaries. No. 83,436; Sept. 12; Gaz. vol. 170; p. 478.
Postum Cereal Co., Limited, Battle Creek, Mich. Cereal foods. No. 82,258; June 13; Gaz. vol. 167; p. 511.
Potter and Buffington Company, Providence, R. I. Jewelry. No. 83,005; Aug. 8; Gaz. vol. 169; p. 446.
Potter Confectionery Company, Cambridge, Mass. Chocolates. No. 81,907; May 16; Gaz. vol. 166; p. 748.
Potter-Sloan O'Donohue Company, The, New York, N. Y. Compound of coffee and chicory. No. 82,638; July 11; Gaz. vol. 168; p. 521.
Poulain & Steer, Paris, France. Collar stiffeners and supports. No. 81,295; Mar. 21; Gaz. vol. 164; p. 736.
Poulain & Steer, Paris, France. Featherbone. No. 82,359; June 20; Gaz. vol. 167; p. 759.
Pratt, Caroline L., New York, N. Y. Wooden toys. No. 84,409; Dec. 12; Gaz. vol. 173; p. 580.
Pratt, William E., Chicago, Ill. Hog and pig rings and ringers. No. 83,277; Aug. 29; Gaz. vol. 169; p. 1181.
Premier Manufacturing Company, The, Newton, Conn. Electric motors and certain other named electric machinery. No. 82,534; July 4; Gaz. vol. 168; p. 246.
Prentiss Vise Company, New York, N. Y. Vises. No. 81,100; Feb. 28; Gaz. vol. 163; p. 974.
Presto Bitters Co., New Haven, Conn. Medicinal bitters. No. 82,172; June 6; Gaz. vol. 167; p. 238.
Price Baking Powder Company, Chicago, Ill. Baking-powder. No. 83,689; Oct. 3; Gaz. vol. 171; p. 210.
Price Chemical Co., Ed., Kansas City, Mo. Medicine for gonorrhea and gleet. No. 82,469; June 27; Gaz. vol. 167; p. 979.
Price Flavoring Extract Company, Chicago, Ill. Fruit coloring. No. 81,742; May 2; Gaz. vol. 166; p. 247.
Princesse Manufacturing Company, Fort Wayne, Ind. Men's work-shirts. No. 81,170; Mar. 7; Gaz. vol. 164; p. 246.
Printz & Co., Georg, Aachen, Germany, and New York, N. Y. Hand sewing-needles and pins. No. 81,296; Mar. 21; Gaz. vol. 164; p. 736.
Printz & Co., Georg, Aachen, Germany, and New York, N. Y. Needles and pins. No. 81,908; May 16; Gaz. vol. 166; p. 748.
Pritchard, George A., Indianapolis, Ind. Paint. No. 81,909; May 16; Gaz. vol. 166; p. 748.
Procter & Gamble Company, Ivorydale and Cincinnati, Ohio; Kansas City, Kans., and New York, N. Y. Candles. No. 80,545; Jan. 3; Gaz. vol. 162; p. 266.
Procter & Gamble Company, The, Ivorydale and Cincinnati, Ohio, and Macon, Ga. Laundry soap. No. 81,101; Feb. 28; Gaz. vol. 163; p. 974.
Professional Dentifrice Company, Philadelphia, Pa. Tooth powder and paste and mouth-wash. No. 81,027; Feb. 21; Gaz. vol. 163; p. 724.
Providence Oil Co., Providence, R. I. Waterproofing and preservative paste for leather. No. 84,675; Dec. 26; Gaz. vol. 173; p. 1076.
Purcell & Co., R. E., San Antonio, Tex. Hair-tonic. No. 82,639; July 11; Gaz. vol. 168; p. 521.
Purcell, Isaac S., Chicago, Ill. Pianos and organs. No. 80,802; Jan. 31; Gaz. vol. 162; p. 1180.
Purdom Brothers Company, Dunkirk, Ind. Remedy for hog-cholera. No. 84,256; Nov. 21; Gaz. vol. 172; p. 818.
Puritan Comb Company, Leominster, Mass. Hair-pins, combs, and barrettes. No. 81,546; Apr. 18; Gaz. vol. 165; p. 726.
Puritan Company, Boston, Mass. Chewing-gum. No. 83,512; Sept. 19; Gaz. vol. 170; p. 700.
Puritan Company, The, assignor to Uno Manufacturing Company, Chicago, Ill. Wood and metal polishes. No. 84,676; Dec. 26; Gaz. vol. 173; p. 1076.
Puritan Manufacturing Company, Portland, Oreg. Beverage. No. 84,677; Dec. 26; Gaz. vol. 173; p. 1076.
Puritan Soap Company, Rochester, N. Y. Soap and metal-polish. No. 81,356; Mar. 28; Gaz. vol. 164; p. 972.
Putnam, Fred A., Boston, Mass. Compound for making a printed impression. No. 84,189; Nov. 14; Gaz. vol. 172; p. 546.
Putnam-Hooker Company, The, Cincinnati, Ohio. Cotton duck and sheeting. No. 83,770; Oct. 10; Gaz. vol. 171; p. 479.
Putnam-Hooker Company, The, Cincinnati, Ohio. Twine. No. 83,942; Oct. 24; Gaz. vol. 171; p. 980.
Putnam-Morrill Company, Boston, Mass. Aprons. No. 83,093; Aug. 15; Gaz. vol. 169; p. 698.
Pyle, Robert W., New Philadelphia, Ohio. Remedy for colic, indigestion, &c., in cattle and horses. No. 84,338; Nov. 28; Gaz. vol. 172; p. 1086.
Pyraform Bottle Manufacturing Company, St. Louis, Mo. Paper bottles. No. 82,360; June 20; Gaz. vol. 167; p. 759.
Pyrene Manufacturing Co., New York, N. Y. Syringes for use with fire-extinguishing compounds. No. 83,278; Aug. 29; Gaz. vol. 169; p. 1181.
Q M S Co., Plainfield, N. J., and New York, N. Y. Steps for cars, wagons, carriages, &c. No. 81,547; Apr. 18; Gaz. vol. 165; p. 726.
Q M S Co., Plainfield, N. J., and New York, N. Y. Air-hoists, cranes, and sawing machinery and parts thereof. No. 83,771; Oct. 10; Gaz. vol. 171; p. 479.
Queen City Printing Ink Company, The, Cincinnati, Ohio. Printing-ink. No. 83,355; Sept. 5; Gaz. vol. 170; p. 240.
Queen City Ring Mfg. Co., Buffalo, N. Y. Gold rings. No. 84,190; Nov. 14; Gaz. vol. 172; p. 546.
Queisner, Max, Charlottenburg, Germany. Preparation for cleaning straw hats. No. 80,618; Jan. 10; Gaz. vol. 162; p. 534.
Quennard, George H., Allendale, N. J., and New York, N. Y. Cloth for vehicle-tops. No. 83,437; Sept. 12; Gaz. vol. 170; p. 478.
Quick, Eugene B. and Frank W., New York, N. Y. Remedies for internal hemorrhages. No. 81,823; May 9; Gaz. vol. 166; p. 508.
Quinn, John F., Cohoes, N. Y. Knitted underwear. No. 83,598; Sept. 26; Gaz. vol. 170; p. 925.
R. Hickmott Canning Co., San Francisco, Cal. Canned product of asparagus. No. 84,098; Nov. 7; Gaz. vol. 172; p. 256.
R. Lowenbaum Manufacturing Company, St. Louis, Mo. Women's, misses', and children's clothing. No. 84,501; Dec. 19; Gaz. vol. 173; p. 858.
R. E. Funsten Dried Fruit & Nut Co., St. Louis, Mo. Fresh cracked pecans. No. 84,618; Dec. 26; Gaz. vol. 173; p. 1074.
R. F. & J. Alexander & Co., Ltd., Neilston, Scotland. Sewing cotton thread in balls. No. 84,445; Dec. 19; Gaz. vol. 173; p. 857.
R. J. Kanter Company, The, New York, N. Y. Lubricating oils and greases. Nos. 82,240–1; June 13; Gaz. vol. 167; p. 510.
R. J. Reynolds Tobacco Company, Winston Salem, N. C. Tobacco-pipes. No. 82,470; June 27; Gaz. vol. 167; p. 979.
R. J. Reynolds Tobacco Company, Winston Salem, N. C. Tobacco, cigars, cigarettes, and snuff. No. 82,471; June 27; Gaz. vol. 167; p. 979.
R. J. Reynolds Tobacco Company, Winston Salem, N. C. Smoking-tobacco. No. 84,044; Oct. 31; Gaz. vol. 171; p. 1255.
R. L. Company, The, Kansas City, Mo. Antiseptic liquid. No. 84,129; Nov. 7; Gaz. vol. 172; p. 256.
R. M. Hollingshead Co., The, Camden, N. J. Greases and oil. No. 81,805; May 9; Gaz. vol. 166; p. 508.
R. M. Hollingshead Co., Camden, N. J. Japan iron-enamel and a top dressing. No. 81,806; May 9; Gaz. vol. 166; p. 508.
R. M. Hollingshead Co., Camden, N. J. Powdered soapstone, powdered talc, and flake graphite. No. 82,083; May 30; Gaz. vol. 166; p. 1278.
R. M. Hollingshead Co., The, Camden, N. J. Carbon-decomposer and an antifreezing compound. No. 82,232; June 13; Gaz. vol. 167; p. 510.
R. M. Hollingshead Co., Camden, N. J. Preparation for cleaning and polishing. No. 83,251; Aug. 29; Gaz. vol. 169; p. 1180.
R. M. Rose Co., Chattanooga, Tenn., and Jacksonville, Fla. Gin. No. 82,362; June 20; Gaz. vol. 167; p. 759.
Rabok Manufacturing Company, St. Louis, Mo. Paint for preserving wood and metal. No. 83,356; Sept. 5; Gaz. vol. 170; p. 240.
Rademaker, Johannes P., The Hague, Netherlands. Confectionery lozenges. No. 82,824; July 25; Gaz. vol. 168; p. 1029.
Radical Remedy Co., New York, N. Y. Remedy for certain diseases. No. 84,678; Dec. 26; Gaz. vol. 173; p. 1076.
Raggio & Hermanos, L., Buenos Aires, Argentina. Illuminating-oils. No. 84,042; Oct. 31; Gaz. vol. 171; p. 1255.
Rains, G. O., guardian. (See Dohner, Joseph A.)
Rambaud, Geo. G., New York, N. Y. Tooth preparations. No. 84,679; Dec. 26; Gaz. vol. 173; p. 1076.
Ramer Medicine Co., Ramer, Tenn. Liniment. No. 84,410; Dec. 12; Gaz. vol. 173; p. 580.
Raney Medicine Company. (See Pittman Medicine Co.)
Raschig, Friedrich, Ludwigshafen-on-the-Rhine, Germany. Coal-tar for application to roads. No. 81,102; Feb. 28; Gaz. vol. 163; p. 974.
Rauhoff, John M., Chicago, Ill. Composition to be applied to cement and concrete structures. No. 83,943; Oct. 24; Gaz. vol. 171; p. 980.
Ravené Söhne, Jacob, Berlin, Germany. Weighing-machines. No. 83,357; Sept. 5; Gaz. vol. 170; p. 240.
Ray Sporting Goods Manufacturing Company, Newark, N. J. Lotion for the head and hair. No. 83,094; Aug. 15; Gaz. vol. 169; p. 698.
Rea-Patterson Milling Company, The, Coffeyville, Kans. Wheat-flour. No. 82,260; June 13; Gaz. vol. 167; p. 511.
Rea-Patterson Milling Company, Coffeyville, Kans. Wheat-flour. No. 83,690; Oct. 3; Gaz. vol. 171; p. 210.
Reach, George A., Philadelphia, Pa., assignor to A. J. Reach Company. Certain sporting goods. No. 81,230; Mar. 14; Gaz. vol. 164; p. 504.

Alphabetical list of registrants of trade-marks—Continued.

Read Brothers, Limited, London, England. Ginger-ale. No. 81,824; May 9; Gaz. vol. 166; p. 508.
Ready Tool Company, The. (See Fish, Thomas, assignor.)
Reboul, Theo. T., New Orleans, La. Tea, chicory, and coffee. No. 84,130; Nov. 7; Gaz. vol. 172; p. 256.
Reckitt & Sons, Limited, Hull, England. Laundry blue. No. 81,910; May 16; Gaz. vol. 166; p. 749.
Recreo Chemical Company, Utica, N. Y. Certain toilet preparations. No. 84,524; Dec. 19; Gaz. vol. 173; p. 859.
Rectenwald, Daniel L., Pittsburg, Pa. Headache-tablets. No. 81,911; May 16; Gaz. vol. 166; p. 749.
Red Cross Filter Company, Chicago, Ill. Filters. No. 81,627; Apr. 25; Gaz. vol. 165; p. 968.
Redbrook Tinplate Co. Limited, The, London, England. Tin, terne, zinc, and black plates. No. 81,548; Apr. 18; Gaz. vol. 165; p. 726.
Reed & Barton Corporation, Taunton, Mass. Flat and hollow silverware, knives, forks, and spoons. No. 84,525; Dec. 19; Gaz. vol. 173; p. 859.
Regina Company, The, Rahway, N. J. Vacuum cleaning-machines. No. 83,944; Oct. 24; Gaz. vol. 171; p. 980.
Reichardt, F. Alfred, Elizabeth, N. J. Razors and razor-guards. No. 80,619; Jan. 10; Gaz. vol. 162; p. 534.
Reid & Co., A. L., New York, N. Y. Cotton piece goods. No. 83,095; Aug. 15; Gaz. vol. 169; p. 698.
Reinhart, Mark, Brookline and Boston, Mass. Negligée shirts. No. 84,526; Dec. 19; Gaz. vol. 173; p. 859.
Reisch Brewing Co., Springfield, Ill. Malt extract. No. 82,361; June 20; Gaz. vol. 167; p. 759.
Reiser, George F., Toledo, Ohio. Medicine put up in tablet form for certain diseases. No. 81,628; Apr. 25; Gaz. vol. 165; p. 968.
Reiss & Brady, assignor to Cresca Company, New York, N. Y. Certain foods. No. 84,043; Oct. 31; Gaz. vol. 171; p. 1255.
Rembrandt Intaglio Printing Company, Limited, The, Lancaster, England. Pictures mechanically printed on paper. No. 84,527; Dec. 19; Gaz. vol. 173; p. 859.
Renninger, Paul J., Reading, Pa. Bookbindings. No. 84,191; Nov. 14; Gaz. vol. 172; p. 546.
Reproduction Co., The, New York, N. Y. Felt pennants. No. 82,108; May 30; Gaz. vol. 166; p. 1279.
Republican Publishing Company, The, Hamilton, Ohio. Magazine published annually. No. 83,945; Oct. 24; Gaz. vol. 171; p. 981.
Rescue Medicine Co., Shelbyville, Tenn. Medicine for diseases of the lungs. No. 81,028; Feb. 21; Gaz. vol. 163; p. 724.
Retone Company, The, Buffalo, N. Y. Dandruff remedy. No. 84,528; Dec. 19; Gaz. vol. 173; p. 859.
Revere Rubber Company, Chelsea, Mass. Horseshoe-pads. No. 84,339; Nov. 28; Gaz. vol. 172; p. 1086.
Reynolds & Vaught, Longview, Tex. Remedy for liver, kidney, and bladder troubles. No. 83,946; Oct. 24; Gaz. vol. 171; p. 981.
Rheinboldt, Hch., Baden-Baden, Germany. Cigarettes. No. 80,804; Jan. 31; Gaz. vol. 162; p. 1180.
Rheumentha Company, San Francisco, Cal. Remedy for certain diseases. No. 83,513; Sept. 19; Gaz. vol. 170; p. 700.
Rhinelander Refrigerator Co., Rhinelander, Wis. Refrigerators. No. 83,599; Sept. 26; Gaz. vol. 170; p. 925.
Rhode Island Perkins Horse Shoe Company, Providence, R. I. Horseshoes and horseshoe-calks. No. 81,481; Apr. 11; Gaz. vol. 165; p. 470.
Rice & Hutchins Incorporated, Portland, Me., and Boston, Mass. Shoes. No. 83.774; Oct. 10; Gaz. vol. 171; p. 479.
Rice-Stix Dry Goods Co., St. Louis, Mo. Men's half-hose. No. 83,006; Aug. 8; Gaz. vol. 169; p. 447.
Rice-Stix Dry Goods Company, St. Louis, Mo. Hosiery. No. 80,620; Jan. 10; Gaz. vol. 162; p. 534.
Rice-Stix Dry Goods Company, St. Louis, Mo. Sheeting, sheets, bolster and pillow cases. No. 81,357; Mar. 28; Gaz. vol. 164; p. 972.
Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 82,020; May 23; Gaz. vol. 166; p. 983.
Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 82,720; July 18; Gaz. vol. 168; p. 784.
Rice-Stix Dry Goods Company, St. Louis, Mo. Petticoats. No. 83,773; Oct. 10; Gaz. vol. 171; p. 479.
Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 84,045; Oct. 31; Gaz. vol. 171; p. 1255.
Richard Hudnut, New York, N. Y. Certain toilet preparations. No. 82,889; Aug. 1; Gaz. vol. 169; p. 200.
Richard Hudnut, New York, N. Y. Certain toilet preparations. No. 84,487; Dec. 19; Gaz. vol. 173; p. 858.
Richard Young Co., New York, N. Y. Certain leather. No. 83,464; Sept. 12; Gaz. vol. 170; p. 479.
Richey, Alfred D., Chicago, Ill. Certain clothing. No. 80,951; Feb. 14; Gaz. vol. 163; p. 479.
Richheimer & Co., Chicago, Ill. Coffee-strainers. No. 83,181; Aug. 22; Gaz. vol. 169; p. 940.
Richter, Alfred, New York, N. Y. Bristles. No. 82,109; May 30; Gaz. vol. 166; p. 1279.
Richter, Carl H. F., London, England. Serum and tonic. No. 82,825; July 25; Gaz. vol. 168; p. 1029.
Richter, Hans P., Chemnitz, Germany. Compasses, dividers, bow instruments, &c. No. 81,912; May 16; Gaz. vol. 166; p. 749.
Rick, Albert C., Dallas, Tex. Mattresses. No. 81,743; May 2; Gaz. vol. 166; p. 247.
Ridenour-Baker Grocery Co., Kansas City, Mo. Canned vegetables. No. 81,297; Mar. 21; Gaz. vol. 164; p. 736.
Ridenour-Baker Grocery Company, Kansas City, Mo. Canned salmon and sardines. No. 81,358; Mar. 28; Gaz. vol. 164; p. 972.
Ridenour-Baker Grocery Company, Kansas City, Mo. Olive-oil, sardines, and macaroni. No. 81,629; Apr. 25; Gaz. vol. 165; p. 969.
Ridenour Baker Grocery Company, Kansas City, Mo. Rice. No. 83,279; Aug. 29; Gaz. vol. 169; p. 1181.
Ridenour-Baker Grocery Company, Kansas City, Mo. Pepper sauce and tomato catsup. No. 84,529; Dec. 19; Gaz. vol. 173; p. 859.
Rider and Driver Publishing Co., New York, N. Y. Weekly magazines. No. 81,630; Apr. 18; Gaz. vol. 165; p. 969.
Ridgway Company, The, New York, N. Y. Monthly periodical. No. 81,103; Feb. 28; Gaz. vol. 163; p. 974.
Rife's Hydraulic Engine Manufacturing Co., New York, N. Y. Hydraulic rams. No. 81,298; Mar. 21; Gaz. vol. 164; p. 736.
Rigney & Company, New York, N. Y. Bonbons and lozenges. No. 80,952; Feb. 14; Gaz. vol. 163; p. 479.
Rigney & Company, Brooklyn, N. Y. Blend of rock-candy and maple-syrup. No. 81,744; May 2; Gaz. vol. 166; p. 247.
Riley-Pennsylvania Oil Co., Burlington, Iowa. Gasolene and lubricating and illuminating oils and greases. No. 81,299; Mar. 21; Gaz. vol. 164; p. 736.
Rinald Bros., Philadelphia, Pa. Paints. No. 80,546; Jan. 3; Gaz. vol. 162; p. 266.
Ritchie & Eason, Manchester, England. Tracing-cloth. No. 81,029; Feb. 21; Gaz. vol. 163; p. 724.
Riverside Printing Company, Milwaukee, Wis. Certain printed matter. No. 83,775; Oct. 10; Gaz. vol. 171; p. 479.
Riverside Tailoring Co., Cincinnati, Ohio. Coats, vests, trousers, and overcoats. No. 83,096; Aug. 15; Gaz. vol. 169; p. 698.
Robbins, John E., Greensburg, Ind. Medicated salt for stock. No. 82,472; June 27; Gaz. vol. 167; p. 979.
Roberdel Mfg. Co., Rockingham, N. C. Dress-gingham. No. 83,280; Aug. 29; Gaz. vol. 169; p. 1181.
Roberdel Mfg. Co., Rockingham, N. C. Dress-ginghams. No. 84,530; Dec. 19; Gaz. vol. 173; p. 859.
Roberts, Cyrus E., McPherson, Kans. Chicken and stock food. No. 81,359; Mar. 28; Gaz. vol. 164; p. 972.
Roberts, Johnson & Rand Shoe Company, St. Louis, Mo. Leather shoes. No. 81,030; Feb. 21; Gaz. vol. 163; p. 724.
Roberts & Oake, Chicago, Ill. Hams and bacon. No. 81,171; Mar. 7; Gaz. vol. 164; p. 246.
Roberts, Sanford & Taylor Co., Sherman, Tex. Washing-machines, sad-irons, washboards, &c. No. 81,913; May 16; Gaz. vol. 166; p. 749.
Robertson, Arthur R., trustee. (See Brown, Atherton T.)
Robinson Bros. & Company, Incorporated, Portland, Me., and Malden, Mass. Medicinal and toilet soap. No. 82,110; May 30; Gaz. vol. 166; p. 1279.
Rochester Can Company, Rochester, N. Y. Sheet-metal cans and baskets. No. 80,806; Jan. 31; Gaz. vol. 162; p. 1180.
Rochester Sewer Pipe Company, Rochester, N. Y. Floor and wall tiles. No. 81,483; Apr. 11; Gaz. vol. 165; p. 470.
Roddewig-Schmidt Candy Co., Davenport, Iowa. Candy. No. 82.913; Aug. 1; Gaz. vol. 169; p. 200.
Rodes, C. B., Kansas City, Mo. Insecticides and disinfectants. No. 82,173; June 6; Gaz. vol. 167; p. 238.
Roelofs and Company, Henry H., Philadelphia, Pa. Men's hats and caps. No. 82,174; June 6; Gaz. vol. 167; p. 238.
Roessler & Hasslacher Chemical Co., The, New York, N. Y. Metallic compound which on friction emits sparks. No. 81,104; Feb. 28; Gaz. vol. 163; p. 974.
Rogal, Abraham, Chicago, Ill. Hair-tonics. No. 82,826; July 25; Gaz. vol. 168; p. 1029.
Rogers Brothers, Alpena, Mich. Peas, beans, wheat, oats, &c., used as seeds. No. 82,111; May 30; Gaz. vol. 166; p. 1279.
Rogers Company, The, Tacoma, Wash. Spices and flavoring compounds. No. 82,827; July 25; Gaz. vol. 168; p. 1029.
Rogers, Edwin A., Boston, Mass. Preparation for stiffening, sizing, and finishing hats, braids, &c. No. 82.828; July 25; Gaz. vol. 168; p. 1029.
Rogers, Edwin A., Boston, Mass. Liquid preparation employed for stiffening, sizing, and finishing hats. No. 82,829; July 25; Gaz. vol. 168; p. 1029.
Rogers & Thompson, West New York, N. J., and New York, N. Y. Silk and mixed silk and cotton piece goods. No. 81,301; Mar. 21; Gaz. vol. 164; p. 736.
Rogers & Thompson, West New York, N. J., and New York, N. Y., assignor to Rogers Thompson Givernaud Co. Waterproofed and spot-proofed silks. No. 84,340; Nov. 28; Gaz. vol. 172; p. 1086.

Alphabetical list of registrants of trade-marks—Continued.

Roggen Bros. & Co., New York, N. Y. Shirts. No. 84,046; Oct. 31; Gaz. vol. 171; p. 1255.
Rohlfing, L. C., St. Louis, Mo. Remedies for constipation and biliousness. No. 84,411; Dec. 12; Gaz. vol. 173; p. 580.
Rohlfing, William H., St. Louis, Mo. Sweeping compound. No. 83,439; Sept. 12; Gaz. vol. 170; p. 478.
Röhm, Otto, Esslingen-on-the-Neckar, Germany. Chemicals used in the preparation of hides for tanning. No. 82,640; July 11; Gaz. vol. 168; p. 521.
Rolg & Langsdorf, Antonio, Philadelphia, Pa. Cigars. No. 82,641; July 11; Gaz. vol. 168; p. 521.
Rokeach & Sons, I., New York, N. Y. Soap for scouring and washing dishes. No. 82,261; June 13; Gaz. vol. 167; p. 511.
Rolka & Klein, New York, N. Y. Cutlery. Nos. 81,105–6; Feb. 28; Gaz. vol. 163; p. 974.
Ronuk, Limited, Portslade, England. Cleaning or polishing composition. No. 81,360; Mar. 28; Gaz. vol. 164; p. 972.
Rood, Horace E., New York, N. Y. Remedy for stomach and bowel troubles. No. 83,947; Oct. 24; Gaz. vol. 171; p. 981.
Rose, Edward J., Tacoma, Wash. Remedy for stomach, liver, and kidney trouble. No. 82,175; June 6; Gaz. vol. 167; p. 238.
Rosenberg Bros. & Co., San Francisco, Cal. Raisins. No. 84,412; Dec. 12; Gaz. vol. 173; p. 580.
Rosenberg Bros. & Co., San Francisco, Cal. Figs. No. 84,413; Dec. 12; Gaz. vol. 173; p. 580.
Rosenberger, Arthur, Berlin, Germany. Medicine, namely a kefir preparation. No. 82,262; June 13; Gaz. vol. 167; p. 511.
Rosencrantz, Isidor B., New York, N. Y. Mothproofed fabrics. No. 84,681; Dec. 26; Gaz. vol. 173; p. 1076.
Rosenfeld and Co., E., Baltimore, Md. Shirts. Nos. 80,734–7; Jan. 24; Gaz. vol. 162; p. 996.
Rosenfeld and Co., E., Baltimore, Md. Night-shirts and pajamas. No. 80,738; Jan. 24; Gaz. vol. 162; p. 996.
Rosenfeld & Co., E., Baltimore, Md. Pajamas, night, negligée, and dress shirts. No. 82,176; June 6; Gaz. vol. 167; p. 238.
Rosenwasser Brothers, New York, N. Y. Legging-drawers. No. 81,747; May 2; Gaz. vol. 166; p. 247.
Ross, Frank W. C., New York, N. Y. Cold-cream. No. 82,642; July 11; Gaz. vol. 168; p. 521.
Rostau, Josef L., Paris, France. Raw, waste, or reclaimed rubber. No. 81,107; Feb. 28; Gaz. vol. 163; p. 974.
Rostau, Josef L., Paris, France. Rubber and rubber substitutes. No. 81,361; Mar. 28; Gaz. vol. 164; p. 972.
Rothschild, Eugenie, *et al.*, executors. (See Rothschild, Ludwig.)
Rothschild, Leo H., *et al.*, executors. (See Rothschild, Ludwig.)
Rothschild, Ludwig, deceased, New York, N. Y.; E. and L. H. Rothschild and C. E. Heymann, executors. Garment-buttons. No. 83,007; Aug. 8; Gaz. vol. 169; p. 447.
Rotophot Gesellschaft für Photographische Industrie m. b. H., Berlin, Germany. Photographs. No. 82,021; May 23; Gaz. vol. 166; p. 983.
Roussos, C. & Ph., New York, N. Y. Hair-tonic. No. 81,825; May 9; Gaz. vol. 166; p. 508.
Rowe & Co., H. C., New Haven, Conn. Fresh oysters. No. 84,682; Dec. 26; Gaz. vol. 173; p. 1076.
Rowe Patent Calk Company, The, Hartford, Conn. Horseshoe-calks. Nos. 83,440–1; Sept. 12; Gaz. vol. 170; p. 478.
Rowe Patent Calk Company, The, Hartford, Conn. Horseshoe-calks. No. 84,047; Oct. 31; Gaz. vol. 171; p. 1255.
Rowney & Co., George, London, England. Certain articles of stationery. No. 80,954; Feb. 14; Gaz. vol. 163; p. 479.
Royal Glass Company, Centralia, Ill. Glass. No. 80,621; Jan. 10; Gaz. vol. 162; p. 534.
Roycrofters, The, East Aurora, N. Y. Pocket-books, portfolios, leather cases, &c. No. 82,643; July 11; Gaz. vol. 168; p. 521.
Royersford Foundry & Machine Co. Incorporated, Royersford and Philadelphia, Pa. Lubricating oil and grease. No. 82,830; July 25; Gaz. vol. 168; p. 1029.
Ruben, Albert, Chicago, Ill. Pulley-dressings. No. 83,358; Sept. 5; Gaz. vol. 170; p. 240.
Rudolff, Herman, Novato, Cal. Cheese. No. 84,531; Dec. 19; Gaz. vol. 173; p. 859.
Rudolph, Albert, Edgewater, N. J. Hair-tonic and remedy for dandruff and scalp diseases. No. 80,679; Jan. 17; Gaz. vol. 162; p. 780.
Rudolph Wurlitzer Co., Cincinnati, Ohio. Mandolins. No. 81,044; Feb. 21; Gaz. vol. 163; p. 725.
Runzel-Lenz Electric Mfg. Co., Chicago, Ill. Electrical supplies. No. 82,644; July 11; Gaz. vol. 168; p. 521.
Rupert, Charles G., Marshallton, Del. Fiber-board. No. 81,362; Mar. 28; Gaz. vol. 164; p. 972.
Rural Home Chemical Company, Wellsboro, Pa. Disinfectant, deodorant, germicide, and insecticide. No. 80,622; Jan. 10; Gaz. vol. 162; p. 534.
Rural Home Chemical Company, Wellsboro, Pa. Medicine for animals. No. 80,680; Jan. 17; Gaz. vol. 162; p. 780.
Rural Publishing Co., Detroit, Mich.; Chicago, Ill., and New York, N. Y. Periodicals. No. 82,914; Aug. 1; Gaz. vol. 169; p. 201.
Rush City Milling Company, Rush City, Minn. Wheat-flour. No. 81,748; May 2; Gaz. vol. 166; p. 247.
Russak, Alfred, Kosten, Germany. Bitters. No. 83,691; Oct. 3; Gaz. vol. 171; p. 210.
Russell & Dexter Company, Penn Yan, N. Y. Asphalt sheet-roofing. No. 83,776; Oct. 10; Gaz. vol. 171; p. 479.
Russell, Laurence, Saratoga, Cal. Dried fruits. No. 83,008; Aug. 8; Gaz. vol. 169; p. 447.
Russia Cement Company, Gloucester, Mass. Inks and writing fluids. No. 82,645; July 11; Gaz. vol. 168; p. 521.
Russia Cement Company, Gloucester, Mass. Glues. No. 83,359; Sept. 5; Gaz. vol. 170; p. 240.
Rustic Hickory Furniture Co., La Porte, Ind. Rustic hickory furniture. No. 81,749; May 2; Gaz. vol. 166; p. 247.
S. Hamill Company, Keokuk, Iowa. Certain food. No. 80,655; Jan. 17; Gaz. vol. 162; p. 779.
S. Hamill Company, Keokuk, Iowa. Baking-powder and laundry starch. No. 81,213; Mar. 14; Gaz. vol. 164; p. 503.
S. Hamill Company, Keokuk, Iowa. Certain foods. No. 84,002; Oct. 31; Gaz. vol. 171; p. 1253.
S. A. Diamond & Bro. Co., New York, N. Y. Aprons. No. 82,057; May 30; Gaz. vol. 166; p. 1277.
S. C. Wells & Company, Le Roy, N. Y. Certain medicinal remedy. No. 81,764; May 2; Gaz. vol. 166; p. 248.
S. E. Cassino Company, The, Salem, Mass. Monthly magazines. No. 81,124; Mar. 7; Gaz. vol. 164; p. 245.
S. E. Horton Machine Company, Windsor Locks, Conn. Chucks, machine-tool attachments, and face-plate jaws. No. 83,492; Sept. 19; Gaz. vol. 170; p. 699.
S. G. Atkins Co. Inc., Richmond, Va. Whisky. No. 82,859; Aug. 1; Gaz. vol. 169; p. 199.
S. J. Sutherland Company, New Orleans, La. Timber, logs, and lumber. No. 80,960; Feb. 14; Gaz. vol. 163; p. 479.
S. M. Bixby & Co., Brooklyn, N. Y. Shoe-polish. No. 84,074; Nov. 7; Gaz. vol. 172; p. 255.
S. O. & C. Co., Ansonia, Conn., and Boston, Mass. Eyelets and lacing-hooks. No. 83,608; Sept. 26; Gaz. vol. 170; p. 925.
S. R. & I. C. McConnell Co., Burlington, Iowa. Harness, saddles, and horse-collars. No. 82,902; Aug. 1; Gaz. vol. 169; p. 200.
S. S. White Dental Mfg. Co., Philadelphia, Pa.; Chicago, Ill.; New York, Brooklyn, and Rochester, N. Y.; Boston, Mass.; Atlanta, Ga.; New Orleans, La.; Toronto, Ontario, Canada; Buenos Aires, Argentina; Berlin, Germany, and St. Petersburg, Russia. Dental alloys. No. 83,704; Oct. 3; Gaz. vol. 171; p. 211.
Saarburg-Moselle Co. Ltd., The, London, England. Moselle wine. No. 81,172; Mar. 7; Gaz. vol. 164; p. 246.
Sachers, Ralph J., New York, N. Y. Certain electrical apparatus, machines, and supplies therefor. No. 84,132; Nov. 7; Gaz. vol. 172; p. 257.
Sadtler, Edward H., Baltimore, Md. Certain medical and surgical appliances. No. 84,192; Nov. 14; Gaz. vol. 172; p. 546.
Saeger & Sons, Fremont, Nebr. Cigars. No. 84,193; Nov. 14; Gaz. vol. 172; p. 546.
Safety Water Company, New York, N. Y. Locks. No. 82,363; June 20; Gaz. vol. 167; p. 759.
Saks and Company, Washington, D. C. Boots and shoes. No. 80,681; Jan. 17; Gaz. vol. 162; p. 780.
Salant & Salant, New York, N. Y. Certain clothing. No. 80,547; Jan. 3; Gaz. vol. 162; p. 266.
Salant & Salant, New York, N. Y. Shirts. No. 80,682; Jan. 17; Gaz. vol. 162; p. 780.
Salant & Salant, New York, N. Y. Blouses. No. 83,600; Sept. 26; Gaz. vol. 170; p. 925.
Salant & Salant, New York, N. Y. Cartons and boxes. No. 84,683; Dec. 26; Gaz. vol. 173; p. 1076.
Salem Iron Works, Winston Salem, N. C. Sawmill machinery. No. 81,031; Feb. 21; Gaz. vol. 163; p. 725.
Salina Candy Company, Salina, Kans. Chocolate candy. No. 83,183; Aug. 22; Gaz. vol. 169; p. 940.
Salina Candy Company, The, Salina, Kans. Chocolate candy. No. 83,515; Sept. 19; Gaz. vol. 170; p. 700.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn. Coats, cloaks, capes, &c. No. 80,548; Jan. 3; Gaz. vol. 162; p. 266.
Salt's Textile Manufacturing Company, Bridgeport, Conn. Velvets and plushes. No. 80,549; Jan. 3; Gaz. vol. 162; p. 266.
Salubratapeten-Fabrik Basel, Grenzach, Baden, Germany, and Basel, Switzerland. Paper wall-coverings. No. 80,872; Feb. 7; Gaz. vol. 163; p. 228.
Samarelli, Enrico, New York, N. Y. Remedy for diseases of the nervous system. No. 83,859; Oct. 17; Gaz. vol. 171; p. 740.
Saml. Gabriel Sons & Company, New York, N. Y. Certain post-cards, Christmas cards and letters, toy books, and prints for paper toys. No. 83,726; Oct. 10; Gaz. vol. 171; p. 477.

Alphabetical list of registrants of trade-marks—Continued.

Samoset Chocolates Co., Boston, Mass. Maraschino cherries, almonds, honey nougatines, &c. No. 82,646; July 11; Gaz. vol. 168; p. 521.
Sampson Grove, Boardman, Fla. Citrus fruits. No. 82,831; July 25; Gaz. vol. 168; p. 1029.
Sampson Publishing Company, Boston, Mass. Monthly magazines. No. 83,009; Aug. 8; Gaz. vol. 169; p. 447.
Samstag & Hilder Brothers, New York, N. Y. Animal dolls. No. 80,873; Feb. 7; Gaz. vol. 163; p. 228.
Samstag & Hilder Brothers, New York, N. Y. Dress-shields. No. 81,363; Mar. 28; Gaz. vol. 164; p. 972.
Samuel Cabot, Incorporated, Boston, Mass. Antiseptic. No. 81,382; Apr. 4; Gaz. vol. 165; p. 237.
Samuel Donchian Rug Company, The, Hartford, Conn. Rug and carpet fasteners. No. 84,299; Nov. 21; Gaz. vol. 172; p. 819.
Samuel Donchian Rug Company, The, Hartford, Conn. Oriental rugs. No. 84,470; Dec. 19; Gaz. vol. 173; p. 857.
Samuel Ward Company, Boston, Mass. Writing-papers and envelops. Nos. 82,540–1; July 4; Gaz. vol. 168; p. 246.
Samuel Wilde's Sons Company, New York, N. Y. Certain food. No. 81,768; May 2; Gaz. vol. 166; p. 248.
San Antonio Macaroni Factory, San Antonio, Tex. Macaroni and vermicelli. No. 82,177; June 6; Gaz. vol. 167; p. 238.
Sander, Edward, New York, N. Y. Rubber syringes. No. 83,948; Oct. 24; Gaz. vol. 171; p. 981.
Sanders, John M., Rome, Ga. Fertilizer-distributers. No. 83,516; Sept. 19; Gaz. vol. 170; p. 700.
Sanders & Stayman Company of Baltimore City, Baltimore, Md. Certain musical instruments and supplies therefor. No. 83,949; Oct. 24; Gaz. vol. 171; p. 981.
Sanderson Brothers & Newbould Limited, Sheffield, England. Tool-steel. No. 81,826; May 9; Gaz. vol. 166; p. 508.
Sands, Taylor & Wood Co., Boston, Mass. Wheat-flour. Nos. 80,550–1; Jan. 3; Gaz. vol. 162; p. 266.
Sanford Manufacturing Co., Chicago, Ill. Inks and writing fluids. No. 82,721; July 18; Gaz. vol. 168; p. 784.
Sanford Manufacturing Co., Chicago, Ill. Glue, arabic, paste, and mucilage. No. 82,832; July 25; Gaz. vol. 168; p. 1029.
Sanger Brothers, New York, N. Y., and Dallas and Waco, Tex. Cotton, linen, wool, silk, &c., piece goods. No. 82,022; May 23; Gaz. vol. 166; p. 983.
Sanger Brothers, New York, N. Y., and Dallas and Waco, Tex. Certain fancy goods and notions. No. 82,535; July 4; Gaz. vol. 168; p. 246.
Sanitary Rag Co., Kalamazoo, Mich. Cleaning and polishing cloths. No. 82,647; July 11; Gaz. vol. 168; p. 522.
Sanitary Stove Mfg. Co., The, St. Louis, Mo. Stoves and ranges. No. 81,549; Apr. 18; Gaz. vol. 165; p. 726.
Sanitary Ware Mfg. Co., Newark, N. J. Coverings for certain hardware goods. No. 84,684; Dec. 26; Gaz. vol. 173; p. 1076.
Sapphire Record and Talking Machine Co., New York, N. Y. Talking-machines and their parts. No. 81,632; Apr. 25; Gaz. vol. 165; p. 969.
Sarnoff Bros., New York, N. Y. Hats and caps. No. 83,010; Aug. 8; Gaz. vol. 169; p. 447.
Sassinot, Louis R., New Orleans, La. Paint-oil. No. 80,552; Jan. 3; Gaz. vol. 162; p. 266.
Saunders, James B., Ashland, Oreg. Remedy for poison oak and ivy poisoning, &c. No. 81,914; May 16; Gaz. vol. 166; p. 749.
Savage, Louis P., Laporte, Ind. Remedies for diseases of the eyes. No. 80,739; Jan. 24; Gaz. vol. 162; p. 996.
Savage, M. W., Minneapolis, Minn. Watches. No. 81,633; Apr. 25; Gaz. vol. 165; p. 969.
Savage, M. W., Minneapolis, Minn. Watches. No. 82,024; May 23; Gaz. vol. 166; p. 983.
Savage Manufacturing Company, Savage, Md. Duck used for drying paper. No. 84,048; Oct. 31; Gaz. vol. 171; p. 1255.
Sayer, Ernest W., Montreal, Quebec, Canada. Games on which aerial projectiles are used. No. 83,601; Sept. 26; Gaz. vol. 170; p. 925.
Schaal, Eugen, Feuerbach, near Stuttgart, Germany. Resin acid esters. No. 82,648; July 11; Gaz. vol. 168; p. 522.
Schaeffer Bros. & Powell Mfg. Co., St. Louis, Mo. Candles. Nos. 83,517–18; Sept. 19; Gaz. vol. 170; p. 700.
Schaller Brewing Co., The, Cincinnati, Ohio. Beer. No. 82,915; Aug. 1; Gaz. vol. 169; p. 201.
Schaufler, Ernest, Roselle Park, N. J. Hair-tonic. No. 82,364; June 20; Gaz. vol. 167; p. 759.
Schell, Edward E., Wayne City, Ill. Veterinary liniment. No. 80,955; Feb. 14; Gaz. vol. 163; p. 479.
Scherman & Company, Joseph, Chicago, Ill. Shampoo preparation. No. 81,634; Apr. 25; Gaz. vol. 165; p. 969.
Scheuerl, Christian, New York, N. Y. Remedy for corns, bunions, calli, and warts. No. 84,685; Dec. 26; Gaz. vol. 173; p. 1076.
Schick Manufacturing Company, The Wm., Topeka, Kans. Pillows, mattresses, and upholstered furniture. No. 82,263; June 13; Gaz. vol. 167; p. 511.
Schieffelin & Co., New York, N. Y. Analgesic and antiseptic. No. 80,553; Jan. 3; Gaz. vol. 162; p. 266.
Schiesser, Jacques, Radolfzell, Germany. Knitted jackets, undershirts, drawers, &c. No. 80,623; Jan. 10; Gaz. vol. 162; p. 534.
Schlesinger, Maurice F., New York, N. Y. Cathartic tablet. No. 80,874; Feb. 7; Gaz. vol. 163; p. 228.
Schlesinger, Siegfried, Brooklyn, N. Y. Disinfectants. No. 83,777; Oct. 10; Gaz. vol. 171; p. 479.
Schloss & Co., Joseph W., New York, N. Y. Collar-supporters. No. 83,361; Sept. 5; Gaz. vol. 170; p. 240.
Schloss Crockery Co., San Francisco, Cal. Glass fruit-jars. No. 81,915; May 16; Gaz. vol. 166; p. 749.
Schloss, Meyer W., New York, N. Y. Ladies' hose-supporters. No. 84,532; Dec. 19; Gaz. vol. 173; p. 859.
Schlueter, Albert G., East St. Louis, Ill. Face-Powder. No. 82,833; July 25; Gaz. vol. 168; p. 1029.
Schmidt & Co., Rudolf, Vienna, Austria-Hungary. High-speed and tool steel. No. 81,750; May 2; Gaz. vol. 166; p. 247.
Schmittke, John, Detroit, Mich. Wines. No. 84,133; Nov. 7; Gaz. vol. 172; p. 257.
Schneebeli, Gustav A., Nazareth, Pa. Bohemian-style sauce. No. 81,916; May 16; Gaz. vol. 166; p. 749.
Schoble & Co., Frank, Philadelphia, Pa. Hats and caps. No. 81,364; Mar. 28; Gaz. vol. 164; p. 972.
Schock, Clarence, Mount Joy, Pa. Gasolene and illuminating-oils. No. 80,875; Feb. 7; Gaz. vol. 163; p. 228.
Schoenheit, Augustus A., San Jose, Cal. Corn remedy. No. 80,876; Feb. 7; Gaz. vol. 163; p. 228.
Schoenheit, Augustus A., San Jose, Cal. Liniment. No. 84,257; Nov. 21; Gaz. vol. 172; p. 818.
Schoening, Michael E., New York, N. Y. Musical-instrument strings. No. 84,372; Dec. 5; Gaz. vol. 173; p. 283.
Scholle, Albert H., New York, N. Y. Antiseptic lotion. No. 83,950; Oct. 24; Gaz. vol. 171; p. 981.
Schott Home Made Garment Co., Oakland, Cal. Aprons, dresses, petticoats, and corsets. No. 84,342; Nov. 28; Gaz. vol. 172; p. 1086.
Schou, Theodor, Pittsburg, Pa. Vehicle-runners. No. 81,917; May 16; Gaz. vol. 166; p. 749.
Schramm & Schmieg Dry Goods Company, Burlington, Iowa. Overalls, trousers, coats, work-shirts, &c. No. 83,602; Sept. 26; Gaz. vol. 170; p. 925.
Schroeder, Charles, Brooklyn, N. Y. Leather and canvas shoes. No. 81,032; Feb. 21; Gaz. vol. 163; p. 725.
Schuler Chocolate Factory, Winona, Minn. Chocolates. No. 82,114; May 30; Gaz. vol. 166; p. 1279.
Schulist, Jacob, Cleveland, Ohio. Glue. No. 83,362; Sept. 5; Gaz. vol. 170; p. 240.
Schulze & Billerbeck, Berlin, Germany. Optical instruments, &c. No. 84,258; Nov. 21; Gaz. vol. 172; p. 818.
Schuster Co., The, Cleveland, Ohio. Whisky. No. 83,603; Sept. 26; Gaz. vol. 170; p. 925.
Schuster Company, The, Cleveland, Ohio. Certain beverages. No. 82,649; July 11; Gaz. vol. 168; p. 522.
Schwarz, Firm of J. von, Nuremberg, Germany. Gas-burners made of soapstone. No. 83,111; Aug. 15; Gaz. vol. 169; p. 699.
Schwarz & Wild, St. Louis, Mo. Ladies' shirt-waists. No. 82,916; Aug. 1; Gaz. vol. 169; p. 201.
Schweinfurter Präcisions-Kugel-Lager-Werke Fichtel & Sachs, Schweinfurt, Germany. Vehicles and repair parts of same. No. 81,550; Apr. 18; Gaz. vol. 165; p. 726.
Scidmore, Frederick, Dundee, Ill. Metal-polishes. No. 84,533; Dec. 19; Gaz. vol. 173; p. 859.
Scioto Canning Company, The, Circleville, Ohio. Canned vegetables. No. 84,134; Nov. 7; Gaz. vol. 172; p. 257.
Scotch-Tone Remedy Co., Oklahoma, Okla. Medicinal and toilet soap. No. 84,534; Dec. 19; Gaz. vol. 173; p. 859.
Scotia Worsted Mills, New York, N. Y. Rainproof cloth. No. 83,184; Aug. 22; Gaz. vol. 169; p. 940.
Scott & Bowne, Orange, N. J., and New York, N. Y. Remedies for pulmonary diseases, coughs, colds, and general debility. No. 81,231; Mar. 14; Gaz. vol. 164; p. 504.
Scott, Fremont, Los Angeles, Cal. Meringue jelly. No. 83,363; Sept. 5; Gaz. vol. 170; p. 240.
Scott & Gilbert Co., San Francisco, Cal. Certain medicines. No. 84,135; Nov. 7; Gaz. vol. 172; p. 257.
Scovill Manufacturing Company, Waterbury, Conn. Lacing-hooks. No. 80,555; Jan. 3; Gaz. vol. 162; p. 266.
Scranton Electric Construction Co., Scranton, Pa. Drills for drilling slate, bone, rock-salt, &c. No. 81,827; May 9; Gaz. vol. 166; p. 508.
Scrivner, John, Normal, Ill. Polishing compound. No. 80,556; Jan. 3; Gaz. vol. 162; p. 266.
Scudders-Gale Grocer Co., The, St. Louis, Mo. Certain food. No. 81,305; Mar. 21; Gaz. vol. 164; p. 737.
Scudders-Gale Grocer Co., The, St. Louis, Mo. Certain foods. No. 81,635; Apr. 25; Gaz. vol. 165; p. 969.
Scudders-Gale Grocer Company, The, St. Louis, Mo. Certain foods. No. 84,343; Nov. 28; Gaz. vol. 172; p. 1086.
Scully, William J., Newport, Ky. Medicinal preparation for treatment of the skin. No. 81,551; Apr. 18; Gaz. vol. 165; p. 726.
Scurlock, Lena M., Kansas City, Mo. Dolls. No. 81,552; Apr. 18; Gaz. vol. 165; p. 726.
Seaboard Rice Milling Co., Galveston, Tex. Rice. No. 83,011; Aug. 8; Gaz. vol. 169; p. 447.
Seabury & Johnson, New York, N. Y. Oxid-of-zinc adhesive plaster. No. 83,694; Oct. 3; Gaz. vol. 171; p. 211.

Alphabetical list of registrants of trade-marks—Continued.

Sealshipt Oyster System, South Norwalk, Conn. Oyster-pails. No. 80,557; Jan. 3; Gaz. vol. 162; p. 266.
Sealshipt Oyster System, Inc., South Norwalk, Conn. Woven slatted packing-cases. No. 83,185; Aug. 22; Gaz. vol. 169; p. 941.
Sears & Company, C. E., Circleville, Ohio. Canned vegetables and pork and beans. No. 83,692; Oct. 3; Gaz. vol. 171; p. 210.
Sears, Florence M., Boston, Mass. Medicines for tuberculosis of the lungs. No. 81,636; Apr. 25; Gaz. vol. 165; p. 969.
Sears, Roebuck and Co., Chicago, Ill. Corsets and underwaists. No. 80,740; Jan. 24; Gaz. vol. 162; p. 996.
Sears, Roebuck & Company, Chicago, Ill., and New York, N. Y. Petticoats and underskirts. No. 82,367; June 20; Gaz. vol. 167; p. 759.
Seaver, Howard E., Brown Mills, N. J. Chickens, ducks, turkeys, and pigeons. No. 84,414; Dec. 12; Gaz. vol. 173; p. 580.
Sedlmayr, Brauerei zum Spaten, Gabriel, Munich, Germany. Beer. No. 82,834; July 25; Gaz. vol. 168; p. 1029.
Seeby Drug Company, New York, N. Y. Toilet-combs. No. 84,535; Dec. 19; Gaz. vol. 173; p. 859.
Segal, Jacob N., Boston, Mass. Wheat-flour. No. 81,637; Apr. 25; Gaz. vol. 165; p. 969.
"Selas" Gesellschaft mit beschränkter Haftung, Berlin, Germany. Certain machinery. No. 84,344; Nov. 28; Gaz. vol. 172; p. 1086.
Semon Bache & Company, New York, N. Y. Glass used for certain purposes. No. 82,722; July 18; Gaz. vol. 168; p. 784.
Sen-Sen Chiclet Company, New York, N. Y. Chewing-gum and cachous. No. 84,536; Dec. 19; Gaz. vol. 173; p. 859.
Seneca Dried Fruit Company, New York and Rochester, N. Y. Evaporated apples. Nos. 83,364–5; Sept. 5; Gaz. vol. 170; p. 240.
Seneca Dried Fruit Company, New York, N. Y. Evaporated apples. No. 83,860; Oct. 17; Gaz. vol. 171; p. 740.
Sensburg, Ludwig, Munich, Germany. Medicated chewing-gum. No. 84,259; Nov. 21; Gaz. vol. 172; p. 818.
Sensible Tie Co., The, New York, N. Y. Necktie-holders. No. 82,723; July 18; Gaz. vol. 168; p. 784.
Sether, Charles, Decatur, Ind. Cigars, stogies, cheroots, cigarettes, and tobacco. No. 83,186; Aug. 22; Gaz. vol. 169; p. 941.
Seven Hosek Brothers Company, Shirley, Ind. Glass lamp-chimneys. No. 83,442; Sept. 12; Gaz. vol. 170; p. 478.
Sevier, Joseph D., St. Joseph, Mo. Remedies for venereal diseases. No. 81,553; Apr. 18; Gaz. vol. 165; p. 726.
Seyler, John C., Buffalo, N. Y. Magazine. No. 81,828; May 9; Gaz. vol. 166; p. 508.
Shane Bros. & Wilson Co., Philadelphia, Pa. Wheat-flour. No. 81,033; Feb. 21; Gaz. vol. 163; p. 725.
Shane Bros. & Wilson Co., Philadelphia, Pa. Bread. No. 82,724; July 18; Gaz. vol. 168; p. 784.
Shannon & Mott Company, Des Moines, Iowa. Compound of buckwheat and wheat flour. No. 83,519; Sept. 19; Gaz. vol. 170; p. 700.
Sharadin, William H., Kutztown, Pa. Imitation coffee. No. 82,835; July 25; Gaz. vol. 168; p. 1029.
Sharp & Dohme, Baltimore, Md. Laxative confection. No. 82,115; May 30; Gaz. vol. 166; p. 1279.
Shaub, Mabel K., Lancaster, Pa. Horse and cattle tonic. No. 82,368; June 20; Gaz. vol. 167; p. 759.
Shaw & Co., Alex D., New York, N. Y. Sherry-wine. No. 83,012; Aug. 8; Gaz. vol. 169; p. 447.
Shaw, Hammond & Carney, Portland, Me. Grass and clover seed. No. 81,484; Apr. 11; Gaz. vol. 165; p. 470.
Sheahan, Kohn & Co., Chicago, Ill. Suits and overcoats. No. 80,809; Jan. 31; Gaz. vol. 162; p. 1180.
Sheboygan Evaporated Milk Co., The, Sheboygan, Wis. Evaporated milk. No. 84,136; Nov. 7; Gaz. vol. 172; p. 257.
Shedaker & Sons, Chas. E., Philadelphia, Pa. Shirts, drawers, and union suits. No. 81,232; Mar. 14; Gaz. vol. 164; p. 504.
Sheldon Dry Goods Company, The, Columbus, Ohio. Certain textile fabrics. No. 83,443; Sept. 12; Gaz. vol. 170; p. 478.
Sheldon Dry Goods Company, Columbus, Ohio. Shirtwaists, gloves, skirts, and drawers. No. 83,444; Sept. 12; Gaz. vol. 170; p. 478.
Shenandoah Valley Fruit Growers' Association, Incorporated, Staunton, Va., assignor to Virginia Fruit Grower's, Incorporated. Fresh apples and peaches. No. 84,537; Dec. 19; Gaz. vol. 173; p. 859.
Shepard, Harry H., Providence, R. I. Waterproof fabric. No. 83,187; Aug. 22; Gaz. vol. 169; p. 941.
Shepard-Traill Co., The, Seattle and Spokane, Wash., and Minneapolis, Minn. Wood shingles. No. 83,282; Aug. 29; Gaz. vol. 169; p. 1181.
Sheppard, William S., Newark, N. J. Lubricating-oils. No. 83,013; Aug. 8; Gaz. vol. 169; p. 447.
Sherley, Alexander F., London, England. Food for dogs. No. 84,260; Nov. 21; Gaz. vol. 172; p. 818.
Sherman-Cosner Mercantile Co., The, Trinidad, Colo. Imitation sorghum. No. 84,261; Nov. 21; Gaz. vol. 172; p. 818.
Sherriffs Bros. Company, Healdsburg, Cal. Dried prunes. No. 80,877; Feb. 7; Gaz. vol. 163; p. 228.
Sherry, Elizabeth, Rico, Colo. Polishes for glass and metals. No. 83,695; Oct. 3; Gaz. vol. 171; p. 211.
Shilling, George, Washington, D. C. Vacuum apparatus for medical and surgical purposes. No. 82,918; Aug. 1; Gaz. vol. 169; p. 201.
Shirt Garter Co., Columbia, Tenn. Hose-supporters. No. 83,366; Sept. 5; Gaz. vol. 170; p. 240.
Shofner, E. F., Nashville, Tenn. Toilet or massage cream. No. 83,696; Oct. 3; Gaz. vol. 171; p. 211.
Shreiner, Henry M., New York, N. Y. Colored glass for eyeglass-lenses. No. 82,536; July 4; Gaz. vol. 168; p. 246.
Shreveport Saddlery Co., Ltd., The, Shreveport, La. Saddles, riding-bridles, harness, and horse-collars. No. 80,956; Feb. 14; Gaz. vol. 163; p. 479.
Shulman, Jacob, Baltimore, Md. Face and complexion powder and cosmetique cream. No. 82,369; June 20; Gaz. vol. 167; p. 759.
Sibley, Edwin S., Chicago, Ill. Medicinal tonics. No. 82,264; June 13; Gaz. vol. 167; p. 511.
Siebe, Gorman & Co. Ltd., London, England. Breathing apparatus for use in mines, &c. No. 83,188; Aug. 22; Gaz. vol. 169; p. 941.
Siegel Brothers & Goodman, New York, N. Y. Suits consisting of coats, pantaloons, and vests. No. 81,918; May 16; Gaz. vol. 166; p. 749.
Siering, Eugene R., New York, N. Y. Certain toilet articles. No. 81,751; May 2; Gaz. vol. 166; p. 247.
Silver & Company, New York, N. Y. Oil-stoves and parts thereof. Nos. 84,687–8; Dec. 26; Gaz. vol. 173; p. 1076.
Silverstein Bros., New York, N. Y. Outer skirts. No. 82,919; Aug. 1; Gaz. vol. 169; p. 201.
Silverstein, Joseph, New York, N. Y. Disinfectant and vermin-exterminator. No. 84,345; Nov. 28; Gaz. vol. 172; p. 1086.
Silvestre & Maucotel, Paris, France. Strings for musical stringed instruments. No. 83,605; Sept. 26; Gaz. vol. 170; p. 925.
Silvestre & Maucotel, Paris, France. Musical-instrument strings. No. 84,194; Nov. 14; Gaz. vol. 172; p. 546.
Simmons Hardware Company, St. Louis, Mo. Enameled metal ware. No. 81,919; May 16; Gaz. vol. 166; p. 749.
Simonoff, Henry, New York, N. Y. Dress-skirts. No. 82,725; July 18; Gaz. vol. 168; p. 784.
Simplex Home Motion Picture Company, The, New York, N. Y. Moving-picture machines. No. 84,539; Dec. 19; Gaz. vol. 173; p. 859.
Simplex Railway Appliance Company, Chicago, Ill; Hammond Ind., and New York, N. Y. Railway-car bolsters. No. 81,752; May 2; Gaz. vol. 166; p. 247.
Simplex Railway Appliance Company, Chicago, Ill. Cast-steel high-speed brake-beams. No. 83,367; Sept. 5; Gaz. vol. 170; p. 240.
Simpson Sons & Co., Wm., Philadelphia, Pa.; New York, N. Y.; Baltimore, Md.; Chicago, Ill., and St. Louis, Mo. Cotton piece goods. No. 82,265; June 13; Gaz. vol. 167; p. 511.
Simpson, Sons & Co., Wm., Philadelphia, Pa.; New York, N. Y.; Baltimore, Md.; Chicago, Ill., and St. Louis, Mo. Cotton, wool, &c., piece goods. No. 82,920; Aug. 1; Gaz. vol. 169; p. 201.
Sinclair-Allen M'f'g. Co., Inc., Mottville, N. Y. Double-cane and porch furniture. No. 81,638; Apr. 25; Gaz. vol. 165; p. 969.
Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine needles. No. 83,015; Aug. 8; Gaz. vol. 169; p. 447.
Singleton, James N. G., Orlando, Fla. Dolls. No. 83,606; Sept. 26; Gaz. vol. 170; p. 925.
Skinner Brothers, Chicago, Ill. Woolen piece goods. No. 82,726; July 18; Gaz. vol. 168; p. 784.
Slater & Morrill, Inc., South Braintree, Mass. Shoes. No. 81,829; May 9; Gaz. vol. 166; p. 508.
Slaughter, Wm. E., Chicago, Ill. Non-intoxicating beverage. No. 83,368; Sept. 5; Gaz. vol. 170; p. 241.
Smalley Kivlan & Onthank, Boston, Mass. Glass jars. No. 82,475; June 27; Gaz. vol. 167; p. 979.
Smith, Charles H., Shreveport, La. Remedy for certain named diseases. No. 82,921; Aug. 1; Gaz. vol. 169; p. 201.
Smith & Co., Alfred B., Springfield, Mass. Wheat-flour. No. 81,108; Feb. 28; Gaz. vol. 163; p. 975.
Smith & Co., Alfred B., Springfield, Mass. Wheat-flour. No. 81,173; Mar. 7; Gaz. vol. 164; p. 246.
Smith & Crosby, Attleboro, Mass. Certain precious-metal articles. No. 80,810; Jan. 31; Gaz. vol. 162; p. 1180.
Smith, D. R., Fall River, Mass. Remedy for dyspepsia. No. 81,830; May 9; Gaz. vol. 166; p. 508.
Smith, Frederick P., Detroit, Mich. Salves and rat-poison. No. 81,639; Apr. 25; Gaz. vol. 165; p. 969.
Smith, George H., Fresno, Cal. Remedy for dyspepsia. No. 83,445; Sept. 12; Gaz. vol. 170; p. 478.
Smith, Harry E., Johnstown, N. Y. Hair-tonic. No. 84,690; Dec. 26; Gaz. vol. 173; p. 1076.
Smith & Hemenway Company, New York, N. Y. Glass-cutters. No. 81,306; Mar. 21; Gaz. vol. 164; p. 737.
Smith, John H., Detroit, Mich. Certain foods. No. 84,541; Dec. 19; Gaz. vol. 173; p. 859.
Smith, Kenneth F., Roanoke, Va. Remedy for diseases of the heart. No. 80,811; Jan. 31; Gaz. vol. 162; p. 1180.

Alphabetical list of registrants of trade-marks—Continued.

Smith, Kline & French Company, Philadelphia, Pa. Dentifrices and remedies for certain diseases. No. 80,683; Jan. 17; Gaz. vol. 162; p. 780.
Smith, Kline & French Company, Philadelphia, Pa. Root-beer extract. No. 80,741; Jan. 24; Gaz. vol. 162; p. 996.
Smith, Kline & French Co., Philadelphia, Pa. Talcum powder. No. 83,862; Oct. 17; Gaz. vol. 171; p. 740.
Smith, Robert B., Petersburg, Va. Remedy for headaches and neuralgic affections. No. 84,137; Nov. 7; Gaz. vol. 172; p. 257.
Smith & Son Co., Lee S., Pittsburg, Pa. Periodical. No. 83,016; Aug. 8; Gaz. vol. 169; p. 447.
Smith, Victor A., Vernon, Tex. Face-cream. No. 82,266; June 13; Gaz. vol. 167; p. 511.
Smith, William D., Parkersburg, W. Va. Logs and lumber. No. 81,308; Mar. 21; Gaz. vol. 164; p. 737.
Smith, Wilson A., Leiters Ford, Ind. Remedy for piles. No. 82,836; July 25; Gaz. vol. 168; p. 1029.
Smooth-On Manufacturing Company, Jersey City, N. J. Iron compound in plastic form. No. 84,262; Nov. 21; Gaz. vol. 172; p. 818.
Smyth-Despard Company, Utica, N. Y. Belting. No. 83,607; Sept. 26; Gaz. vol. 170; p. 925.
Sobrinos de Don Domingo Rodriguez, Habana, Cuba. Sherry-wine. No. 83,182; Aug. 22; Gaz. vol. 169; p. 940.
Sociedad Vinicola, S. & L. Durlacher, Hamburg, Germany. Perfumery. No. 82,837; July 25; Gaz. vol. 168; p. 1029.
Società Generale Delle Conserve Alimentari Cirio, San Giovanni a Teduccio, near Naples, Italy. Tomato extract. No. 84,049; Oct. 31; Gaz. vol. 171; p. 1255.
Societe Anonyme des Anciens Etablissements Panhard et Levassor, Paris, France. Internal-combustion engines. No. 82,267; June 13; Gaz. vol. 167; p. 511.
Societe Anonyme des Anciens Etablissements Panhard et Levassor, Paris, France. Automobiles. No. 82,370; June 20; Gaz. vol. 167; p. 759.
Société Anonyme des Mines & Fonderies de Zinc de la Vieille Montagne, Angleur, Belgium. Zinc sheets. No. 84,138; Nov. 7; Gaz. vol. 172; p. 257.
Société Anonyme des Mines et Fonderies de Zinc de la Vieille Montagne, Angleur, Belgium. Spelter. No. 84,139; Nov. 7; Gaz. vol. 172; p. 257.
Société de Produits Electrochimiques et Metallurgiques des Pyrénées, Paris, France. Certain named chemicals. No. 82,372; June 20; Gaz. vol. 167; p. 759.
Société Des Etablissements Singrün, Épinal, France. Refrigerating apparatus. No. 81,175; Mar. 7; Gaz. vol. 164; p. 246.
Société des Forces Motrices et Usines de l'Arve, Grenoble and Paris, France. Aluminum and aluminum alloys, iron and iron alloys. No. 82,268; June 13; Gaz. vol. 167; p. 511.
Société des Forces Motrices et Usines de l'Arve, Grenoble and Paris, France. Certain named chemicals. No. 82,371; June 20; Gaz. vol. 167; p. 759.
Société des Moteurs Gnome, Paris, France. Certain named engines. No. 84,140; Nov. 7; Gaz. vol. 172; p. 257.
Société des Produits Electro-Chimiques et Métallurgiques des Pyrénées, Paris, France. Aluminum and aluminum alloys, iron and iron alloys. No. 82,650; July 11; Gaz. vol. 168; p. 522.
Societe Generale de Coutellerie & Orfevrerie, Paris, France. Safety-razors and their parts. No. 83,097; Aug. 15; Gaz. vol. 169; p. 698.
Société "Le Film D'Art," Paris, France. Kinematographic films. No. 82,026; May 23; Gaz. vol. 166; p. 983.
Society of Chemical Industry in Basle, Basel, Switzerland. Pharmaceutical product containing bromin. No. 80,742; Jan. 24; Gaz. vol. 162; p. 996.
Society of Chemical Industry in Basle, Basel, Switzerland. Substitute for potassium iodid. No. 81,554; Apr. 18; Gaz. vol. 165; p. 726.
Soltau, Sarah E., Philadelphia, Pa. Salves and ointments. No. 81,555; Apr. 18; Gaz. vol. 165; p. 726.
Somers, Harold, Brooklyn, N. Y. Preparation for killing flies. No. 82,180; June 6; Gaz. vol. 167; p. 238.
Sommers Brothers Match Company, Saginaw, Mich. Matches. No. 81,034; Feb. 21; Gaz. vol. 163; p. 725.
Sorger, Carl, Frankfort-on-the-Main, Germany. Preparation for the treatment of anemia, &c. No. 80,558; Jan. 3; Gaz. vol. 162; p. 266.
Sorority Gum Co., Battle Creek, Mich. Chewing-gum. No. 83,189; Aug. 22; Gaz. vol. 169; p. 941.
South Lake Apopka Citrus Growers Association, Oakland, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 82,373; June 20; Gaz. vol. 167; p. 759.
South Texas Grain Company, Houston, Tex. Grain and food for stock. No. 80,559; Jan. 3; Gaz. vol. 162; p. 266.
Southern Overall Co., The, Baltimore, Md. Overalls, undercoats, and work-shirts. No. 81,485; Apr. 11; Gaz. vol. 165; p. 470.
Southern Planter Publishing Co., The, Richmond, Va. Monthly periodical. No. 81,233; Mar. 14; Gaz. vol. 164; p. 504.
Southern Stamping & Mfg. Co., Nashville, Tenn. Harness ornaments and hardware. No. 83,778; Oct 10; Gaz. vol. 171; p. 479
Southwestern Milling Company, The, Jersey City, N. J., and Kansas City, Mo. Wheat-flour. No. 80,957; Feb. 14; Gaz. vol. 163; p. 479.
Southwestern Milling Company, The, Jersey City, N. J., and Kansas City, Mo. Wheat-flour. No. 82,181; June 6; Gaz. vol. 167; p. 238.
Southwestern Milling Company, The, Jersey City, N. J., and New York, N. Y. Wheat-flour. No. 83,098; Aug. 15; Gaz. vol. 169; p. 698.
Southwestern Paper Company, Dallas, Tex. Wrapping-paper. No. 83,018; Aug. 8; Gaz. vol. 169; p. 447.
Spangler, William H., Barnegat, N. J. Preparation to protect fruit-trees from borers. No. 84,691; Dec. 26; Gaz. vol. 173; p. 1076.
Spear & Sons, J. W., Nuremberg, Germany. Amusement devices. No. 84,693; Dec. 26; Gaz. vol. 173; p. 1077.
Speck, William F., Evansville, Ind. Candy. No. 82,476; June 27; Gaz. vol. 167; p. 979.
Spencer, E. C., Hexham, England. Dog food. No. 82,651; July 11; Gaz. vol. 168; p. 522.
Spiegel, Morris, Albany, N. Y. Purifying medicine for certain diseases. No. 84,694; Dec. 26; Gaz. vol. 173; p. 1077.
Spirella Company, The, Meadville, Pa. Bust extenders and forms, stocks, hose-supporters, &c. No. 83,019; Aug. 8; Gaz. vol. 169; p. 447.
Spirella Company, The, Meadville, Pa. Certain clothing. No. 83,099; Aug. 15; Gaz. vol. 169; p. 698.
Sprague, Chas. H., Benson, Nebr. Remedies for gonorrhea. No. 84,051; Oct. 31; Gaz. vol. 171; p. 1255.
Sprague, Warner & Company, Chicago, Ill. Tea. No. 81,640; Apr. 25; Gaz. vol. 165; p. 969.
Sprague, Warner & Company, Chicago, Ill. Preserved cherries. No. 83,284; Aug. 29; Gaz. vol. 169; p. 1181.
Sprague, Warner & Company, Chicago, Ill. Tea. No. 83,285; Aug. 29; Gaz. vol. 169; p. 1181.
Spratt's Patent Limited, London, England. Preparations for feeding game-birds and poultry. No. 82,838; July 25; Gaz. vol. 168; p. 1029.
Spratt's Patent Limited, London, England. Food for dogs and cats. No. 83,522; Sept. 19; Gaz. vol. 170; p. 700.
Springer, G. R., Kansas City, Mo. Hair-tonic and dandruff-remover. No. 80,878; Feb. 7; Gaz. vol. 163; p. 228.
Springfield Knitting Co., Springfield, Mass. Knit underwear. No. 82,027; May 23; Gaz. vol. 166; p. 983.
Springfield Knitting Co., Springfield, Mass. Knit underwear. No. 82,182; June 6; Gaz. vol. 167; p. 238.
Spunella Ltd., London, England. Silk piece goods. No. 84,542; Dec. 19; Gaz. vol. 173; p. 859.
St. Mungo Manufacturing Company, Glasgow, Scotland. Golf-balls. Nos. 81,302–3; Mar. 21; Gaz. vol. 164; pp. 736–7.
Stadler, August W., Cleveland, Ohio. Soap. No. 84,052; Oct. 31; Gaz. vol. 171; p. 1255.
Staedtler, J. S., Nuremberg, Germany. Certain stationery. No. 81,176; Mar. 7; Gaz. vol. 164; p. 246.
Standard Asphalt Rubber Company, Jersey City, N. J., and Chicago, Ill. Chemical preparation for waterproofing concrete, brick, &c. No. 83,286; Aug. 29; Gaz. vol. 169; p. 1181.
Standard Asphalt & Rubber Company, Jersey City, N. J., and Chicago, Ill. Mineral-rubber pavements. No. 83,864; Oct. 17; Gaz. vol. 171; p. 741.
Standard Chain Co., York, Pa. Iron and steel chains. No. 82,374; June 20; Gaz. vol. 167; p. 759.
Standard Chain Co., York, Pa. Iron and steel chains. No. 83,020; Aug. 8; Gaz. vol. 169; p. 447.
Standard Improved Elastic Paint Company, The, Marietta, Ohio. Mixed paints. No. 82,270; June 13; Gaz. vol. 167; p. 511.
Standard Milling Company, Houston, Tex. Rice. No. 81,365; Mar. 28; Gaz. vol. 164; p. 972.
Standard Milling Company, Houston, Tex. Rice. Nos. 82,271–2; June 13; Gaz. vol. 167; p. 511.
Standard Oil Co. of New York, New York, N. Y. Lubricating-oils. Nos. 81,109–10; Feb. 28; Gaz. vol. 163; p. 975.
Standard Oil Co. of New York, New York, N. Y. Lubricating-oils. No. 81,556; Apr. 18; Gaz. vol. 165; p. 726.
Standard Oil Co. of New York, New York, N. Y. Lubricating-oils. No. 82,839; July 25; Gaz. vol. 168; p. 1029.
Standard Oil Co. of New York, New York, N. Y. Naphtha and gasolene. No. 83,100; Aug. 15; Gaz. vol. 169; p. 698.
Standard Oil Co. of New York, New York, N. Y. Lubricating-oils. Nos. 83,779–90; Oct. 10; Gaz. vol. 171; p. 479.
Standard Oil Co. of New York, New York, N. Y. Lubricating-oils. Nos. 84,263–70; Nov. 21; Gaz. vol. 172; pp. 818–19.
Standard Oil Company, Whiting, Ind. Petroleum-pitch. No. 84,416; Dec. 12; Gaz. vol. 173; p. 580.
Standard Overall Co., Baltimore, Md. Negligée and work shirts. No. 81,309; Mar. 21; Gaz. vol. 164; p. 737.
Standard Overall Co., Baltimore, Md. Overalls. No. 83,101; Aug. 15; Gaz. vol. 169; p. 698.
Standard Playing Card Co., Chicago, Ill. Playing-cards. No. 81,366; Mar. 28; Gaz. vol. 164; p. 972.

Alphabetical list of registrants of trade-marks—Continued.

Standard Sewing Machine Company, The, Cleveland, Ohio. Sewing-machines and attachments. No. 84,543; Dec. 19; Gaz. vol. 173; p. 859.
Standard Thermometer Company, Portland, Me., and Boston, Mass. Thermometers. No. 84,544; Dec. 19; Gaz. vol. 173; p. 860.
Standard Typewriter Co., Groton, N. Y. Carbon-paper and type-writer ribbons. No. 84,195; Nov. 14; Gaz. vol. 172; p. 546.
Standard Underground Cable Company, Pittsburg, Pa. Electric conductors. No. 83,523; Sept. 19; Gaz. vol. 170; p. 700.
Standard Varnish Works, Chicago, Ill. Oil hardener or drier. No. 83,369; Sept. 5; Gaz. vol. 170; p. 241.
Standard Waterproofing & Conduit Co., New York, N. Y. Asphalts and asphaltum products. No. 81,920; May 16; Gaz. vol. 166; p. 749.
Stansbaugh, Harry P., Aberdeen, Md. Certain canned goods. No. 83,524; Sept. 19; Gaz. vol. 170; p. 700.
Star Expansion Bolt Company, New York, N. Y. Certain electrical supplies. No. 80,684; Jan. 17; Gaz. vol. 162; p. 780.
Star Watch Case Co., Ludington, Mich. Watchcases. No. 83,609; Sept. 26; Gaz. vol. 170; p. 925.
Star Watch Case Co., Ludington, Mich. Watchcases. No. 84,196; Nov. 14; Gaz. vol. 172; p. 546.
Starke's Dixie Plow Works, Incorporated, Richmond, Va. Plows. No. 83,370; Sept. 5; Gaz. vol. 170; p. 241.
Starr Piano Company, The, Richmond, Ind. Pianos. No. 83,371; Sept. 5; Gaz. vol. 170; p. 241.
Starry, Wallace G., Harrisburg, Pa. Hosiery. No. 82,028; May 23; Gaz. vol. 166; p. 983.
Steacy-Schmidt Mfg. Co., York, Pa. Stoves. No. 82,116; May 30; Gaz. vol. 166; p. 1279.
Steam Appliance Manufacturing Co., Batavia, N. Y. Vacuum-cleaners. No. 81,921; May 16; Gaz. vol. 166; p. 749.
Steefel, Strauss & Connor, Rochester, N. Y. Outer vests, No. 81,755; May 2; Gaz. vol. 166; p. 247.
Stein & Co., S., New York, N. Y. Woolen piece goods. No. 83,287; Aug. 29; Gaz. vol. 169; 1181.
Stein & Sondheimer, Philadelphia, Pa. Neckties and cravats. Nos. 83,190–1; Aug. 22; Gaz. vol. 169; p. 941.
Stein & Sondheimer, Philadelphia, Pa. Neckties and cravats. No. 84,141; Nov. 7; Gaz. vol. 172; p. 257.
Steinberger & Kalisher, New York, N. Y. Kid gloves. No. 81,416; Apr. 4; Gaz. vol. 165; p. 238.
Steinway & Sons, New York, N. Y. Pianos. No. 84,373; Dec. 5; Gaz. vol. 173; p. 283.
Stellar Company, The, New York, N. Y. Fireworks. No. 82,273; June 13; Gaz. vol. 167; p. 511.
Stewart Citrus Association, Upland, Cal. Oranges and lemons. No. 84,547; Dec. 19; Gaz. vol. 173; p. 860.
Stewart-Dawes Shoe Company, Los Angeles, Cal. Leather boots and shoes. No. 80,813; Jan. 31; Gaz. vol. 162; p. 1180.
Stewart McGlashen & Son Limited, Edinburgh, Scotland. Glass-cutters' stone wheels. No. 80,727; Jan. 24; Gaz. vol. 162; p. 996.
Stewart & Sons, John K., Amsterdam, N. Y. Knit underwear. No. 84,546; Dec. 19; Gaz. vol. 173; p. 860.
Stewart, William J., Pittsburg, Pa. Tonic for the blood, nerves, and stomach. No. 82,840; July 25; Gaz. vol. 168; p. 1030.
Stickney, Elmer J., Randolph, Mass. Shoe polish and paste. No. 81,486; Apr. 11; Gaz. vol. 165; p. 470.
Stirn, Firm of L. & E., New York, N. Y. Waterproof tulle nets and chiffon. No. 83,289; Aug. 29; Gaz. vol. 169; p. 1181.
Stock, Walter, Solingen, Germany. Toys. No. 84,695; Dec. 26; Gaz. vol. 173; p. 1077.
Stock, Walter V., Chicago, Ill. Japan tea. No. 83,865; Oct. 17; Gaz. vol. 171; p. 741.
Stockhausen, Karl, Dresden, Germany. Glass bottles, vases, and fish-globes. No. 82,477; June 27; Gaz. vol. 167; p. 979.
Stockwell-Haley Co., Los Angeles, Cal. Mattresses. No. 84,142; Nov. 7; Gaz. vol. 172; p. 257.
Stoddard, Gilbert & Co., New Haven, Conn. Canned fruits and vegetables and tomato catsup. No. 83,102; Aug. 15; Gaz. vol. 169; p. 698.
Stoddard Gilbert & Co., New Haven, Conn. Wheat-flour. No. 83,290; Aug. 29; Gaz. vol. 169; p. 1181.
Stoll, Ernst, Markneukirchen, Germany. Strings for musical instruments. No. 81,111; Feb. 28; Gaz. vol. 163; p. 975.
Stoll, Ernst, Markneukirchen, Germany. Musical-instrument strings. No. 81,831; May 9; Gaz. vol. 166; p. 508.
Stollwerck Brothers, Inc., New York, N. Y. Chocolates. No. 82,375; June 20; Gaz. vol. 167; p. 759.
Stoves & Hardware Publishing Company, St. Louis, Mo. Weekly publication. No. 84,144; Nov. 7; Gaz. vol. 172; p. 257.
Strasbaugh, Harry P., Aberdeen, Md. Canned fruits, vegetables, oysters, and corn tips and kernels. No. 83,866; Oct. 17; Gaz. vol. 171; p. 741.
Straub Manufacturing Company, Michael, San Francisco, Cal. Remedy for piles and a hair-tonic. No. 82,274; June 13; Gaz. vol. 167; p. 511.
Straus & Sons, L., New York, N. Y. China and earthenware dishes. No. 82,275; June 13; Gaz. vol. 167; p. 511.
Straus, Theodore L., Baltimore, Md. A foam-producing compound for malt liquors. Nos. 82,118–19; May 30; Gaz. vol. 166; p. 1279.
Strawbridge & Clothier, Philadelphia, Pa. Woolen dress goods. No. 80,958; Feb. 14; Gaz. vol. 163; p. 479.
Strawbridge & Clothier, Philadelphia, Pa. Woolen dress goods. No. 81,177; Mar. 7; Gaz. vol. 164; p. 246.
Strawbridge & Clothier, Philadelphia, Pa. Linen piece goods, table-cloths, and napkins. No. 81,756; May 2; Gaz. vol. 166; p. 247.
Strawbridge & Clothier, Philadelphia, Pa. Dress-skirts. No. 83,021; Aug. 8; Gaz. vol. 169; p. 447.
Strawbridge & Clothier, Philadelphia, Pa. Certain knitted goods. No. 83,291; Aug. 29; Gaz. vol. 169; p. 1181.
Strawbridge & Clothier, Philadelphia, Pa. Handkerchiefs, napkins, table-cloths, &c. No. 83,292; Aug. 29; Gaz. vol. 169; p. 1181.
Stringham & Bauer, New York, N. Y. Handkerchiefs. No. 82,478; June 27; Gaz. vol. 167; p. 979.
Strock Mfg. Co., The, Garrettsville, Ohio. Window-cleaning squeegees. No. 81,557; Apr. 18; Gaz. vol. 165; p. 726.
Strong, Carlisle & Hammond Co., The, Cleveland, Ohio. Metallurgical furnaces. No. 84,272; Nov. 21; Gaz. vol. 172; p. 819.
Strong & Company, Jos., Terre Haute, Ind. Teas. No. 80,814; Jan. 31; Gaz. vol. 162; p. 1181.
Stroud, Edmund H., Chicago, Ill. Crushing, disintegrating, &c., mills and parts for the same. No. 83,022; Aug. 8; Gaz. vol. 169; p. 447.
Stroud & Fletcher, Nashville, Tenn., assignors to Fletcher & Wilson Coffee Company. Baking-powder. No. 80,686; Jan. 17; Gaz. vol. 162; p. 780.
Strunz & Son, S., Pittsburg, Pa. Semiliquid soap. No. 80,743; Jan. 24; Gaz. vol. 162; p. 996.
Stuart & Co., C. H., Newark, N. Y. Food-flavors and gelatin. No. 83,867; Oct. 17; Gaz. vol. 171; p. 741.
Stuart & Co., C. H., Newark, N. Y. Certain toilet preparations. No. 84,548; Dec. 19; Gaz. vol. 173; p. 860.
Styles, Ben V., Kansas City, Kans. Alterative. No. 84,549; Dec. 19; Gaz. vol. 173; p. 860.
Success Manufacturing Co., Gloucester, Mass. Refrigerators and ice-boxes. No. 83,611; Sept. 26; Gaz. vol. 170; p. 925.
Suchard, S. A., Serrières, Switzerland. Chocolate. No. 80,959; Feb. 14; Gaz. vol. 163; p. 479.
Sucro-Filter-Werk Sucro & Co. Gesellschaft mit beschränkter Haftung, Schöneberg, Germany. Refrigeration and filtering apparatus. No. 81,367; Mar. 28; Gaz. vol. 164; p. 972.
Sudwarth, Charles F., Washington, D. C. Monthly magazine. No. 82,120; May 30; Gaz. vol. 166; p. 1279.
Sun Oil Company, Philadelphia, Pa. Material similar to turpentine. No. 83,525; Sept. 19; Gaz. vol. 170; p. 700.
Sunlight Curtain Company, San Francisco, Cal. Motion-picture screens or curtains. No. 84,550; Dec. 19; Gaz. vol. 173; p. 860.
Supplee Hardware Company, Philadelphia, Pa. Lawn-mowers. Nos. 83,526–8; Sept. 19; Gaz. vol. 170; p. 700.
Supreme Underwear Mills, Utica, N. Y. Underwear of knitted material. No. 81,832; May 9; Gaz. vol. 166; p. 508.
Sury, Jeanne M., New York, N. Y. Antiseptic dressings. No. 82,842; July 25; Gaz. vol. 168; p. 1030.
Suss, John H., Visalia, Cal. Cancer remedy. No. 81,112; Feb. 28; Gaz. vol. 163; p. 975.
Sussman, Paul, New York, N. Y. Powder-puffs. No. 80,815; Jan. 31; Gaz. vol. 162; p. 1181.
Sutton-Cummins Co., Memphis, Tenn. Tonic beverage and syrup for making the same. No. 81,178; Mar. 7; Gaz. vol. 164; p. 246.
Swain, Lora S., Memphis, Tenn. Face, hair-dressing, and shampoo cream. No. 82,653; July 11; Gaz. vol. 168; p. 522.
Swan & Finch Company, New York, N. Y. Substitutes for linseed-oil. No. 84,551; Dec. 19; Gaz. vol. 173; p. 860.
Swaty, Firm of Franz, Marburg, Austria-Hungary. Hones and grinding-stones. No. 83,447; Sept. 12; Gaz. vol. 170; p. 479.
Swaty, Franz, Marburg, Austria-Hungary. Hones and grinding-stones. No. 84,197; Nov. 14; Gaz. vol. 172; p. 546.
Sweet, Orr & Co., Newburgh, Wappingers Falls, Brooklyn, and New York, N. Y.; Chicago and Joliet, Ill.; Philadelphia, Pa.; New Orleans, La., and Dallas, Tex. Trousers. No. 81,833; May 9; Gaz. vol. 166; p. 508.
Swiss Silk Bolting Cloth M'fg. Co. Ltd., Zurich, Switzerland. Silk bolting-cloth. No. 83,023; Aug. 8; Gaz. vol. 169; p. 447.
Sycamore Coal Company, Vivian, W. Va. Coal. No. 82,922; Aug. 1; Gaz. vol. 169; p. 201.
Sycamore Coal Company, Vivian, W. Va. Coal. No. 83,024; Aug. 8; Gaz. vol. 169; p. 447.
Syracuse Dry Goods Company, Syracuse, N. Y. Hosiery. No. 81,643; Apr. 25; Gaz. vol. 165; p. 969.
Syracuse Dry Goods Company, Syracuse, N. Y. Shirtwaists, shirts, underwear, gloves, and mittens. No. 81,923; May 16; Gaz. vol. 166; p. 749.
Syracuse Dry Goods Company, Syracuse, N. Y. Dress-braids. No. 82,479; June 27; Gaz. vol. 167; p. 979.

Alphabetical list of registrants of trade-marks—Continued.

Syracuse Dry Goods Co., Syracuse, N. Y. Knit hosiery. No. 82,654; July 11; Gaz. vol. 168; p. 522.
Syracuse Dry Goods Co., Syracuse, N. Y. Knit hosiery. No. 82,727; July 18; Gaz. vol. 168; p. 784.
T. C. Williams Company, Richmond, Va. Plug-tobacco. No. 80,965; Feb. 14; Gaz. vol. 163; p. 479.
T. G. White Cereal Company, Cedar Rapids, Iowa. Wheat, Graham, and pancake flour, and cornmeal. No. 81,936; May 16; Gaz. vol. 166; p. 749.
T. H. Vanneman, Son & Co. Inc., Philadelphia, Pa. Hosiery. No. 83,794; Oct. 10; Gaz. vol. 171; 479.
T. M. Sinclair & Co., Limited, Cedar Rapids, Iowa. Ham, shoulders, and bacon. No. 82,474; June 27; Gaz. vol. 167; p. 979.
T. M. Sinclair & Co. Limited, Cedar Rapids, Iowa. Bacon. No. 83,014; Aug. 8; Gaz. vol. 169; p. 447.
T. M. Sinclair & Co., Limited, Cedar Rapids, Iowa. Hams, shoulders, bacon, and picnics. No. 83,283; Aug. 29; Gaz. vol. 169; p. 1181.
T. M. Sinclair & Co., Limited, Cedar Rapids, Iowa. Hams, shoulders, rolls, bacon, and lard. No. 83,520; Sept. 19; Gaz. vol. 170; p. 700.
T. M. Sinclair & Co., Limited, Cedar Rapids, Iowa. Hams, shoulders, and bacon. No. 83,861; Oct. 17; Gaz. vol. 171; p. 741.
T. M. Sinclair & Co., Limited, Cedar Rapids, Iowa. Certain foods. No. 83,951; Oct. 24; Gaz. vol. 171; p. 981.
T. M. Sinclair & Co., Limited, Cedar Rapids, Iowa. Sausage, picnics, and chickens. No. 84,540; Dec. 19; Gaz. vol. 173; p. 859.
T. P. Chapman Paper Co., St. Louis, Mo. Wrapping-paper. No. 83,222; Aug. 29; Gaz. vol. 169; p. 1179.
T. P. McCutcheon & Bro. Incorporated, Philadelphia, Pa. Silk neckties. No. 82,996; Aug. 8; Gaz. vol. 169; p. 446.
Tabor Sash Fixture Co., Newark, N. J. Window-sash and door fixtures. No. 82,728; July 18; Gaz. vol. 168; p. 784.
Takeshima, Genzo, Osaka, Japan. Japanese food called "miso." No. 84,054; Oct. 31; Gaz. vol. 171; p. 1255.
Takis, Costis, New York, N. Y. Candies. No. 83,699; Oct. 3; Gaz. vol. 171; p. 211.
Tampa Citrus Growers' Association, Tampa, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 82,843; July 25; Gaz. vol. 168; p. 1030.
Tangerine Citrus Growers' Association, Tangerine, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 81,644; Apr. 25; Gaz. vol. 165; p. 969.
Tangerine Citrus Growers' Association, Tangerine, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 82,729; July 18; Gaz. vol. 168; p. 784.
Tangerine Citrus Growers' Association, Tangerine, Fla. Oranges and grape-fruit. No. 84,145; Nov. 7; Gaz. vol. 172; p. 257.
Tanke, Otto W., Chicago, Ill. Shampoo-powder. No. 82,377; June 20; Gaz. vol. 167; p. 759.
Tanqueray, Gordon & Co. Limited, London, England. Gin. No. 81,924; May 16; Gaz. vol. 166; p. 749.
Tansan Importing Company, Chicago, Ill. Natural mineral water. No. 81,925; May 16; Gaz. vol. 166; p. 749.
Tarrant Company, The, New York, N. Y. Remedy for venereal diseases. No. 82,844; July 18; Gaz. vol. 168; p. 1030.
Tätosinwerke Fabrik Landwirtschaftlicher Produkte Gesellschaft mit beschränkter Haftung, Berlin, Germany. Flour. No. 81,834; May 9; Gaz. vol. 166; p. 508.
Taxine Manufacturing Company, Dayton, Ohio. Liniment. No. 82,276; June 13; Gaz. vol. 167; p. 511.
Taylor's Anchor Edge Flashing Co., Asbury Park, N. J. Flashings. No. 83,293; Aug. 29; Gaz. vol. 169; p. 1181.
Taylor & Beaudin, Glens Falls, N. Y. Remedy for piles. No. 81,310; Mar. 21; Gaz. vol. 164; p. 737.
Taylor Iron & Steel Co., High Bridge, N. J. Metallic chains and chain-links. No. 81,926; May 16; Gaz. vol. 166; p. 749.
Taylor & Winchester, New York, N. Y. Package containing certain toys. No. 81,311; Mar. 21; Gaz. vol. 164; p. 737.
Teacher & Sons, Wm., Glasgow, Scotland. Whisky. No. 83,373; Sept. 5; Gaz. vol. 170; p. 241.
Teagle, Frank H., Cleveland, Ohio. Electric generators. No. 82,277; June 13; Gaz. vol. 167; p. 511.
Teichgraeber, Firm of Theodor, Berlin, Germany. Preparations for the treatment of arteriosclerosis, &c. No. 81,035; Feb. 21; Gaz. vol. 163; p. 725.
Teida, E. A., San Francisco, Cal. Gold and silver polish. No. 80,816; Jan. 31; Gaz. vol. 162; p. 1181.
Temple, William C., Winter Park, Fla. Certain fruits. No. 82,121; May 30; Gaz. vol. 166; p. 1279.
Temple, William C., Winter Park, Fla. Oranges, lemons, tangerines, grape-fruit, and limes. No. 84,055; Oct. 31; Gaz. vol. 171; p. 1255.
Tennessee Packing and Stock Yards Co., Nashville, Tenn. Ham, sausage, and bacon. No. 83,192; Aug. 22; Gaz. vol. 169; p. 941.
Tennessee Stove Works, Chattanooga, Tenn. Cooking stoves and ranges. No. 82,480; June 27; Gaz. vol. 167; p. 979.
Teofani & Co., Limited, London, England. Cigarettes, smoking-tobacco, and cigars. No. 82,923; Aug. 1; Gaz. vol. 169; p. 201.
Terzia, Felix A., Bastrop, La. Medicinal tonic and nervine. No. 84,346; Nov. 28; Gaz. vol. 172; p. 1086.
Teufel, Wilhelm J., Stuttgart, Germany. Surgical bandages, abdominal supporters, &c. No. 82,924; Aug. 1; Gaz. vol. 169; p. 201.
Teuscher, Edward C., St. Louis, Mo. Toys. No. 83,025; Aug. 8; Gaz. vol. 169; p. 447.
Texas Company, The, Houston, Tex., and New York, N. Y. Kerosene. No. 80,879; Feb. 7; Gaz. vol. 163; p. 228.
Texas Company, The, Houston, Tex., and New York, N. Y. Turpentine substitute. No. 80,961; Feb. 14; Gaz. vol. 163; p. 479.
Texas Company, The, Houston, Tex., and New York, N. Y. Kerosene. No. 81,179; Mar. 7; Gaz. vol. 164; p. 246.
Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Kerosene. No. 83,103; Aug. 15; Gaz. vol. 169; p. 698.
Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. Nos. 84,056–9; Oct. 31; Gaz. vol. 171; p. 1255.
Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. No. 84,061; Oct. 31; Gaz. vol. 171; p. 1255.
Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. Nos. 84,273–95; Nov. 21; Gaz. vol. 172; p. 819.
Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. Nos. 84,347–9; Nov. 28; Gaz. vol. 172; p. 1086.
Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Lubricating-oils. Nos. 84,417–39; Dec. 12; Gaz. vol. 173; p. 580.
Thaddeus Davids Co., New York, N. Y. Mucilage and paste. No. 83,990; Oct. 31; Gaz. vol. 171; p. 1253.
Thalheimer, Gates, Syracuse, N. Y. Certain foods. No. 81,757; May 2; Gaz. vol. 166; p. 247.
Thames Paper Co., Limited, Purfleet, England. Packing-cases. No. 82,730; July 18; Gaz. vol. 168; p. 784.
The Zipp Manufacturing Company, Cleveland, Ohio. Ammonia. No. 81,657; Apr. 25; Gaz. vol. 165; p. 969.
Theatre Magazine Company, The, New York, N. Y. Magazines. No. 82,481; June 27; Gaz. vol. 167; p. 979.
Theo. Noel Company, Chicago, Ill. Medicines for bowel, stomach, blood, and liver disorders. No. 80,672; Jan. 17; Gaz. vol. 162; p. 780.
Theo. Ricksecker Co., The, New York, N. Y. Soap. No. 83,438; Sept. 12; Gaz. vol. 170; p. 478.
Thermo-Chemicals Company, New York, N. Y. Poultice. No. 81,036; Feb. 21; Gaz. vol. 163; p. 725.
Thieme Bros. Co., Fort Wayne, Ind. Ladies' hosiery. No. 82,482; June 27; Gaz. vol. 167; p. 979.
Thomas, Anna D., administratrix. (See Thomas, Henry H.)
Thomas G. Plant Co., Boston, Mass. Boots and shoes and parts thereof. No. 81,414; Apr. 4; Gaz. vol. 165; p. 238.
Thomas, Henry H., deceased; A. D. Thomas, administratrix, Bay City, Mich. Dynamite. No. 83,448; Sept. 12; Gaz. vol. 170; p. 479.
Thomas Mfg. Co., Dayton, Ohio. Certain cutlery and tools. No. 84,350; Nov. 28; Gaz. vol. 172; p. 1086.
Thomas Moulding Company, Chicago, Ill. Bricks. Nos. 82,183–4; June 6; Gaz. vol. 167; p. 238.
Thomas Powell, Limited, Blackfriars Bridge, London, England. Remedy for coughs, colds, asthma, bronchitis. No. 83,511; Sept. 19; Gaz. vol. 170; p. 700.
Thompson & Norris Company, The, Brooklyn, N. Y. Corrugated paper-board. No. 83,612; Sept. 26; Gaz. vol. 170; p. 925.
Thoms Bros. Co., Chicago, Ill. Wrapping-paper. No. 81,487; Apr. 11; Gaz. vol. 165; p. 470.
Thomsen, Richard, Hamburg, Germany. Certain stationery. No. 83,613; Sept. 26; Gaz. vol. 170; p. 925.
Thos. H. Handy & Co., Limited, New Orleans, La. Whisky. No. 83,066; Aug. 15; Gaz. vol. 169; p. 697.
Threapleton's Sons, Wm. B., Philadelphia, Pa. Hosiery. No. 82,655; July 11; Gaz. vol. 168; p. 522.
Three B B B Company, Detroit, Mich. Carbon-paper and ink-ribbon for type-writing and adding machines. No. 83,026; Aug. 8; Gaz. vol. 169; p. 447.
Tide Water Oil Co., New York, N. Y. Lubricating oils and greases. No. 83,791; Oct. 10; Gaz. vol. 171; p. 479.
Tiedemann & Sons, Theo., New York, N. Y. Vellings and nettings. No. 83,614; Sept. 26; Gaz. vol. 170; p. 925.
Tiemann, Frank M., Brooklyn, N. Y. Water-paint. No. 81,927; May 16; Gaz. vol. 166; p. 749.
Tilford, Franklin P., Nebo, Ky. Hair-tonic. No. 82,656; July 11; Gaz. vol. 168; p. 522.
Tim & Co., New York and Troy, N. Y. Men's shirts, collars, underwear, and pajamas. No. 83,530; Sept. 19; Gaz. vol. 170; p. 701.
Tim & Co., New York, N. Y. Textile collars. No. 84,552; Dec. 19; Gaz. vol. 173; p. 860.
Tiona Oil Company, Binghamton, N. Y. Lubricating-oils. No. 84,440; Dec. 12; Gaz. vol. 173; p. 581.
Tippit, Hyrom L., Bluffs, Ill. Liniment. No. 84,697; Dec. 26; Gaz. vol. 173; p. 1077.
Todd, Arthur C., New York, N. Y. Candy. No. 84,198; Nov. 14; Gaz. vol. 172; p. 546.

Alphabetical list of registrants of trade-marks—Continued.

Tolson & Tillman, Helena, Ga. Certain pocket and table cutlery and machines. No. 81,690; May 2; Gaz. vol. 166; p. 246.
Torda Chemical Co., Port Richmond, N. Y. Nail-enamel. No. 82,846; July 25; Gaz. vol. 168; p. 1030.
Toronto Fire Clay Company, The, Toronto, Ohio. Front, paving, and fire bricks. No. 82,122; May 30; Gaz. vol. 166; p. 1279.
Torsch Packing Company, Baltimore, Md. Canned oysters, fruits, and vegetables. No. 84,553; Dec. 19; Gaz. vol. 173; p. 860.
Tottle, William A., Baltimore, Md. Brushes. No. 80,560; Jan. 3; Gaz. vol. 162; p. 266.
Tottle, William A., Baltimore, Md. Whitewash-brushes. No. 80,817; Jan. 31; Gaz. vol. 162; p. 1181.
Tottle, William A., Baltimore, Md. Paint, varnish, and whitewash brushes. No. 82,379; June 20; Gaz. vol. 167; p. 760.
Townsend & Co., E. M., New York, N. Y. Hosiery. No. 83,449; Sept. 12; Gaz. vol. 170; p. 479.
Traugott Schmidt & Sons, Detroit, Mich. Calf-leathers for boots and shoe. No. 83,294; Aug. 29; Gaz. vol. 169; p. 1181.
Trenkamp Stove & Manufacturing Company, The, Cleveland, Ohio. Gas-stoves and gas-ranges. No. 82,123; May 30; Gaz. vol. 166; p. 1279.
Tribune Company, Chicago, Ill. Newspapers. No. 81,645; Apr. 25; Gaz. vol. 165; p. 969.
Trinity Cotton Oil Co., Dallas, Tex. Cooking-oil. No. 83,027; Aug. 8; Gaz. vol. 169; p. 447.
Trinity Cotton Oil Co., Dallas, Tex. Mixed stock feed. No. 83,028; Aug. 8; Gaz. vol. 169; p. 447.
Trio-Tone Drug Manufacturing Company, Memphis, Tenn. Laxative remedy. No. 83,700; Oct. 3; Gaz. vol. 171; p. 211.
Trio Waist Company, Philadelphia, Pa. Ladies' shirt-waists. No. 84,062; Oct. 31; Gaz. vol. 171; p. 1255.
Triol Company, The, Philadelphia, Pa. Antiseptic and disinfectant compounds. No. 84,146; Nov. 7; Gaz. vol. 172; p. 257.
Trippe Barker & Company, New York, N. Y. Cotton and linen piece goods. No. 81,180; Mar. 7; Gaz. vol. 164; p. 246.
Trippe Barker & Company, New York, N. Y. Cotton and linen piece goods. No. 82,732; July 18; Gaz. vol. 168; p. 785.
Triumph Catsup and Pickle Co., Collinsville, Ill. Certain foods. No. 81,646; Apr. 25; Gaz. vol. 165; p. 969.
Triumph Laundry Machinery Company, The, Hamilton, Ohio. Mangles, ironers, starchers, and laundry-extractors. No. 82,925; Aug. 1; Gaz. vol. 169; p. 201.
Tropical Oil Company, The, Cleveland, Ohio. Mixed paint. No. 83,029; Aug. 8; Gaz. vol. 169; p. 447.
Trusweve Package Manufacturing Company, South Norwalk, Conn. Woven-slat packing-cases. No. 80,818; Jan. 31; Gaz. vol. 162; p. 1181.
"Tryune" Gesellschaft m. b. H., Berlin, Germany. Lace-collar supports. No. 82,483; June 27; Gaz. vol. 167; p. 979.
Tufts Sanitary Flooring Company, Boston, Mass. Magnesite flooring material. No. 81,558; Apr. 18; Gaz. vol. 165; p. 726.
Turner Brass Works, Sycamore and Chicago, Ill. Certain heating apparatus. No. 81,312; Mar. 21; Gaz. vol. 164; p. 737.
Turner & Harrison Pen Manufacturing Co. Inc., The, Philadelphia, Pa. Pens. No. 81,758; May 2; Gaz. vol. 166; p. 247.
Turner-Looker Co., The, Cincinnati, Ohio. Certain distilled alcoholic liquors. No. 83,193; Aug. 22; Gaz. vol. 169; p. 941.
Turner's Pharmacy, Richmond, Va. Remedy for rheumatism, gout, lumbago, &c. No. 81,181; Mar. 7; Gaz. vol. 164; p. 246.
Twohy-Eimon Mercantile Company, Superior, Wis. Tea, maple-sap syrup, catsup, &c. No. 81,037; Feb. 21; Gaz. vol. 163; p. 725.
Twohy-Eimon Mercantile Company, Superior, Wis. Olives, tea, vinegar, and canned goods. No. 81,368; Mar. 28; Gaz. vol. 164; p. 972.
Tyler, Edmond, New York, N. Y. Preserved fruits and mustard pickles. No. 81,113; Feb. 28; Gaz. vol. 163; p. 975.
U. S. Automatic Lighting Company, The, Springfield, Mass. Devices for igniting gas. No. 81,183; Mar. 7; Gaz. vol. 164; p. 247.
U. S. Cartridge Co., Lowell, Mass. Cartridges. Nos. 83,450–1; Sept. 12; Gaz. vol. 170; p. 479.
U. S. Hame Company, Buffalo, N. Y. Tools for inserting hollow rollers and sleeves in openings of flexible material. No. 84,698; Dec. 26; Gaz. vol. 173; p. 1077.
U. S. Hame Company, Buffalo, N. Y. Hames. Nos. 84,699–700; Dec. 26; Gaz. vol. 173; p. 1077.
Uhlmann, Charles R., Peoria, Ill. Strop-dressing preparation. No. 83,295; Aug. 29; Gaz. vol. 169; p. 1181.
Ullman-Einstein Co., The, Cleveland, Ohio. Blended whisky, gin, and buchu gin. No. 84,147; Nov. 7; Gaz. vol. 172; p. 257.
Underfeed Stoker Company of America, Chicago, Ill. Furnaces. No. 80,624; Jan. 10; Gaz. vol. 162; p. 534.
Union Bag and Paper Company, The, Jersey City, N. J., and New York, N. Y. Paper bags. No. 81,114; Feb. 28; Gaz. vol. 163; p. 975.
Union Bag and Paper Company, Jersey City, N. J., and New York, N. Y. Paper bags. No. 82,380; June 20; Gaz. vol. 167; p. 760.
Union Bag and Paper Company, The, Jersey City, N. J., and New York, N. Y. Paper bags. No. 82,657; July 11; Gaz. vol. 168; p. 522.
Union Carbide Company, Chicago, Ill. Calcium carbid. No. 83,615; Sept. 26; Gaz. vol. 170; p. 925.
Union Card & Paper Co., New York, N. Y. Writing and printing paper and envelops. No. 81,182; Mar. 7; Gaz. vol. 164; p. 247.
Union Computing Machine Co., Trenton, N. J., and New York, N. Y. Cash-registers. No. 84,701; Dec. 26; Gaz. vol. 173; p. 1077.
Union Fibre Company, Winona, Minn. Heat-insulating material. No. 82,926; Aug. 1; Gaz. vol. 169; p. 201.
Union Fishermen's Co-Operative Packing Co., Astoria, Oreg. Canned salmon. No. 81,835; May 9; Gaz. vol. 166; p. 509.
Union Fishermen's Co-Operative Packing Company, Astoria, Oreg. Canned salmon. Nos. 82,381–2; June 20; Gaz. vol. 167; p. 760.
Union Manufacturing Company, The, Frederick, Md. Hose. Nos. 82,927–9; Aug. 1; Gaz. vol. 169; p. 201.
Union Mills, Hudson and New York, N. Y. Certain knitted clothing. No. 84,702; Dec. 26; Gaz. vol. 173; p. 1077.
Union News Company, The, New York, N. Y. Compound syrup white pine and tar. No. 83,104; Aug. 15; Gaz. vol. 169; p. 699.
Union Petroleum Company, Wilmington, Del., and Philadelphia, Pa. Oil compound. No. 81,038; Feb. 21; Gaz. vol. 163; p. 725.
Union Petroleum Company, Philadelphia, Pa. Lubricating oils and greases. No. 84,296; Nov. 21; Gaz. vol. 172; p. 819.
United Drug Company, Boston, Mass. Certain detergents. No. 80,880; Feb. 7; Gaz. vol. 163; p. 228.
United Electric Company, The, Canton, Ohio. Vacuum-cleaners. No. 82,847; July 25; Gaz. vol. 168; p. 1030.
United Grocery Co., Jacksonville, Fla. Lemon and vanilla flavoring compound. No. 82,658; July 11; Gaz. vol. 168; p. 522.
United Leatherite Company, Philadelphia, Pa. Certain parchment-like paper. No. 83,616; Sept. 26; Gaz. vol. 170; p. 925.
United News and Stationery Company, The, Rochester, N. Y. Mucilage and paste. No. 83,194; Aug. 22; Gaz. vol. 169; p. 941.
United News and Stationery Company, The, Rochester, N. Y. Writing-ink. No. 83,869; Oct. 17; Gaz. vol. 171; p. 741.
United Safety Razor Company, New York, N. Y. Safety-razors and safety-razor blades. No. 83,531; Sept. 19; Gaz. vol. 170; p. 701.
United Sales Co., Davenport, Iowa. Rat-poison. No. 80,819; Jan. 31; Gaz. vol. 162; p. 1181.
United Sardine Factories, Bergen, Norway. Canned sardines. No. 83,296; Aug. 29; Gaz. vol. 169; p. 1181.
United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Polish for boots and shoes. No. 84,297; Nov. 21; Gaz. vol. 172; p. 819.
United States Bung Manufacturing Company, Brooklyn, N. Y., and Cincinnati, Ohio. Metal bushings for bungs. No. 81,759; May 2; Gaz. vol. 166; p. 248.
United States Fertilizer Company, Baltimore, Md. Fertilizers. No. 82,930; Aug. 1; Gaz. vol. 169; p. 201.
United States Music Company, Chicago, Ill. Perforated-music spools and note-sheets. No. 81,559; Apr. 18; Gaz. vol. 165; p. 727.
United States Phonograph Co., The, Cleveland, Ohio. Cabinets for talking-machines. No. 81,488; Apr. 11; Gaz. vol. 165; p. 471.
United States Rice Milling Company, Ltd., The, Crowley, La. Rice. No. 81,417; Apr. 4; Gaz. vol. 165; p. 238.
United States Rice Milling Company, Limited, The, Crowley, La. Rice. No. 82,029; May 23; Gaz. vol. 166; p. 983.
United States Silica Company, Chicago, Ill. Sand for use in the manufacture of glass. No. 80,820; Jan. 31; Gaz. vol. 162; p. 1181.
United States Trade Mark Association, The, New York, N. Y. Monthly publication. No. 83,792; Oct. 10; Gaz. vol. 171; p. 479.
United States Wire Mat Co., Decatur, Ill. Implements for disabling or killing insects. No. 83,617; Sept. 26; Gaz. vol. 170; p. 925.
United Steel Company, The, Canton, Ohio. Steel bars, slabs, and billets. No. 84,298; Nov. 21; Gaz. vol. 172; p. 819.
United Watch Manufacturers Corporation, New York, N. Y. Watch movements and cases and parts thereof. No. 82,931; Aug. 1; Gaz. vol. 169; p. 201.
United Wine & Trading Co., New York, N. Y. Sherry and port wine. No. 80,744; Jan. 24; Gaz. vol. 162; p. 996.

Alphabetical list of registrants of trade-marks—Continued.

Universal Electric Storage Battery Company, Chicago, Ill. Electric batteries. No. 80,687; Jan. 17; Gaz. vol. 162; p. 780.
Universal Import Co., Cincinnati, Ohio. Flavoring extracts. No. 81,313; Mar. 21; Gaz. vol. 164; p. 737.
Universal Lubricating Co., Cleveland, Ohio. Lubricating oils and greases. No. 84,703; Dec. 26; Gaz. vol. 173; p. 1077.
Uno Manufacturing Company. (See Puritan Company, The, assignor.)
Upham Bros. Co., Portland, Me., and Stoughton, Mass. Leather boots and shoes. No. 83,105; Aug. 15; Gaz. vol. 169; p. 699.
Upland Citrus Ass'n, Upland, Cal. Oranges and grapefruit. No. 81,647; Apr 25; Gaz. vol. 165; p. 969.
Upland Citrus Ass'n, Upland, Cal. Oranges and grapefruit. No. 83,297; Aug. 29; Gaz. vol. 169; p. 1181.
Upland Heights Orange Association, Ontario, Cal. Oranges, lemons, grape-fruit, tangerines, and limes. No. 82,030; May 23; Gaz. vol. 166; p. 983.
Uricacide Medicine Co., New Castle, Va. Remedy for certain diseases and a tonic. No. 83,618; Sept. 26; Gaz. vol. 170; p. 925.
Us-Mer-Ja Chemical Co., Inc., New York, N. Y. Toothpaste. No. 82,383; June 20; Gaz. vol. 167; p. 760.
Usher & Company, Andrew, Edinburgh, Scotland. Whisky. No. 83,039; Aug. 15; Gaz. vol. 169; p. 697.
Usine de Desargentation Société Anonyme, Hoboken-les-Anvers, Belgium. Sheep dipping-powder. No. 82,932; Aug. 1; Gaz. vol. 169; p. 201.
Utah Condensed Milk Co., Richmond, Utah. Condensed milk. No. 84,441; Dec. 12; Gaz. vol. 173; p. 581.
Utica Drop Forge & Tool Company, Whitestown and Utica, N. Y. Nippers, pliers, staple-pullers, and seal-presses. No. 83,793; Oct. 10; Gaz. vol. 171; p. 479.
Valentine & Bentley Silk Co., Newton, N. J., and New York, N. Y. Silk goods in the piece. No. 81,039; Feb. 21; Gaz. vol. 163; p. 725.
Valentine & Bentley Silk Co., The, Newton, N. J., and New York, N. Y. Silk piece goods. No. 83,030; Aug. 8; Gaz. vol. 169; p. 447.
Valentine H. Smith & Co., Incorporated, Philadelphia, Pa. Remedy for loss of nervous energy. No. 81,307; Mar. 21; Gaz. vol. 164; p. 737.
Valk & Bro., S. J., New York, N. Y. Syrup compound. No. 80,688; Jan. 17; Gaz. vol. 162; p. 780.
Valk & Bro., S. J., New York, N. Y. Olive-oil. No. 80,821; Jan. 31; Gaz. vol. 162; p. 1181.
Valk & Bro., S. J., New York, N. Y. Olive-oil. No. 82,031; May 23; Gaz. vol. 166; p. 983.
Valley City Milling Co., Grand Rapids, Mich. Granulated meal. No. 82,659; July 11; Gaz. vol. 168; p. 522.
Valley Milling Co., St. Louis, Mo. Feed for stock. No. 82,384; June 20; Gaz. vol. 167; p. 760.
Valley Milling Co., The, St. Louis, Mo. Cereal food for poultry. No. 83,037; Aug. 8; Gaz. vol. 169; p. 447.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Certain tools and machinery. No. 81,560; Apr. 18; Gaz. vol. 165; p. 727.
Van Camp Hardware & Iron Company, Indianapolis, Ind. Certain named hardware and plumbing and steam-fitters' supplies. No. 81,836; May 9; Gaz. vol. 166; p. 509.
Van der Kaaij, Willem C., Utrecht, Netherlands. Cakes, sweetmeats, wafers, &c. No. 82,991; Aug. 8; Gaz. vol. 169; p. 446.
Van Doesburg Brothers, Utrecht, Netherlands. Waffles, biscuits, cookies, and cakes. No. 81,760; May 2; Gaz. vol. 166; p. 248.
Van Horne Manufacturing Co., The, Philadelphia, Pa. Sweeping compounds. No. 83,452; Sept. 12; Gaz. vol. 170; p. 479.
Van Rensselaer & Company, C. A., New York, N. Y. Whisky. No. 83,106; Aug. 15; Gaz. vol. 169; p. 699.
Van Rensselaer & Company, C. A., New York, N. Y. Brandy. No. 83,619; Sept. 26; Gaz. vol. 170; p. 925.
Van Rensselaer & Company, C. A., New York, N. Y. Gin. No. 83,620; Sept. 26; Gaz. vol. 170; p. 925.
Vanadium Alloys Steel Company, Latrobe, Pa. Steel bars, billets, and rods. No. 81,928; May 16; Gaz. vol. 166; p. 749.
Vander Molen, Rudolph, Chicago, Ill. Bread. No. 80,609; Jan. 10; Gaz. vol. 162; p. 534.
Vapor-Vacuum Heating Co., Philadelphia, Pa. Controller and parts thereof for heating. No. 83,031; Aug. 8; Gaz. vol. 169; p. 447.
Vari Lace Manufacturing Company, New York, N. Y. Laces, nets, and nettings. No. 82,385; June 20; Gaz. vol. 167; p. 760.
Variable Power Gas Engine Co., New York, N. Y. Carbureters. No. 81,561; Apr. 18; Gaz. vol. 165; p. 727.
Vaughan Knitting Company, The, Pottstown, Pa. Hosiery. No. 83,374; Sept. 5; Gaz. vol. 170; p. 241.
Vaughn-Crutchfield Co., Winston Salem, N. C. Certain medicines and remedies for certain diseases. No. 84,442; Dec. 12; Gaz. vol. 173; p. 581.
Veeder Broom Company, Hillsdale, Mich. Brooms. No. 80,561; Jan. 3; Gaz. vol. 162; p. 266.
Vereinigten Uhrenfabriken von Gebruder Junghans & Thomas Haller A-G, Schramberg, Germany. Clocks, watches, and parts thereof. No. 82,660; July 11; Gaz. vol. 168; p. 522.
Vereinigten Uhrenfabriken von Gebrüder Junghans & Thomas Haller A-G, Schramberg, Germany. Clocks, watches, clockworks, and parts thereof. No. 83,623; Sept. 26; Gaz. vol. 170; p. 925.
Vernor, James, Detroit, Mich. Ginger-ale and ginger-ale extract. No. 83,107; Aug. 15; Gaz. vol. 169; p. 699.
Vero Chemical Co., The, Woodhaven, N. Y. Medicine used as a nerve-tonic, &c. No. 81,489; Apr. 11; Gaz. vol. 165; p. 471.
Vertriebsgesellschaft chem. technischer Neuheiten Dr. Schnell & Co. G. m. b. H., Munich, Germany. Medicated soap. No. 83,701; Oct. 3; Gaz. vol. 171; p. 211.
Vette & Zuncker, Chicago, Ill. Hams, bacon, sausages, and lard. No. 81,369; Mar. 28; Gaz. vol. 164; p. 972.
Vial, Paris, France. Remedy for diseases of the urinary organs. No. 83,870; Oct. 17; Gaz. vol. 171; p. 741.
Vialla, André, Paris, France. Wheat-flour. No. 81,648; Apr. 25; Gaz. vol. 165; p. 969.
Victor Chemical Company, Petaluma, Cal. Remedy for diseases of the stomach and bowels. No. 83,871; Oct. 17; Gaz. vol. 171; p. 741.
Victor Talking Machine Company, Camden, N. J. Talking-machines and parts thereof. No. 84,199; Nov. 14; Gaz. vol 172; p. 546.
Victor Talking Machine Company, Camden, N. J. Talking-machines and supplies therefor. No. 84,374; Dec. 5; Gaz. vol. 173; p 283.
Victoria Cream Co., The, Philadelphia, Pa. Toilet cream. No. 84,554; Dec. 19; Gaz. vol. 173; p. 860.
Victoria Springs Co., The, Amsterdam, Netherlands. Natural mineral water. No. 83,298; Aug. 29; Gaz. vol. 169; p. 1181.
Virginia Canning Co., Petersburg, Ill. Certain canned goods. No. 80,881; Feb. 7; Gaz. vol. 163; p. 228.
Virginia Fruit Grower's, Incorporated. (See Shenandoah Valley Fruit Grower's Association, Incorporated, assignor.)
Virginia Medical Co. of Charleston, Charleston, W. Va. Certain medicines. No. 83,453; Sept. 12; Gaz. vol. 170; p. 479.
Vivax Storage Battery Company, Chicago, Ill. Storage batteries. No. 83,108; Aug. 15; Gaz. vol. 169; p. 699.
Vocalstyle Music Company, The, Cincinnati, Ohio. Piano-player music-rolls. No. 82,539; July 4; Gaz. vol. 168; p. 246.
Voigt Milling Company, Grand Rapids, Mich. Flour. No. 83,375; Sept. 5; Gaz. vol. 170; p. 241.
Volcano Spark Plug Company, Ashland, Ohio. Spark-plugs. No. 83,109; Aug. 15; Gaz. vol. 169; p. 699.
Von Kokeritz & Co., R. G., New York, N. Y. Gage-glasses. No. 84,704; Dec. 26; Gaz. vol. 173; p. 1077.
Von Koster Bitters Co., Fairfield and Bridgeport, Conn. Bitters and a remedy for certain diseases. No. 83,110; Aug. 15; Gaz. vol. 169; p. 699.
Vortex Vacuum Co., Boston, Mass. Vacuum cleaning-machines. No. 82,661; July 11; Gaz. vol. 168; p. 522.
Vulcan Steam Shovel Company, The, Toledo, Ohio. Power-excavators. No. 80,689; Jan. 17; Gaz. vol. 162; p. 780.
Vulcanized Rubber Co., The, New York, N. Y. Rubber combs. No. 82,933; Aug. 1; Gaz. vol. 169; p. 201.
Vulcanized Rubber Company, The, New York, N. Y. Rubber combs. No. 80,562; Jan. 3; Gaz. vol. 162; p. 266.
W. Bingham Company, Cleveland, Ohio. Padlocks. No. 81,667; May 2; Gaz. vol. 166; p. 245.
W. Symington & Co., Limited, Market Harborough, England. Sauce or dressing preparation. No. 84,696; Dec. 26; Gaz. vol. 173; p. 1077.
W. A. Gaines & Company, Frankfort, Ky. Whisky. No. 81,390; Apr. 4; Gaz. vol. 165; p. 237.
W. B. McVicker Company, New York, N. Y. Lubricating oils and greases. No. 83,080; Aug. 15; Gaz. vol. 169; p. 698.
W. E. Wroe & Company, Chicago, Ill. Writing-paper. No. 82,192; June 6; Gaz. vol. 167; p. 238.
W. F. Assau Canning Co., Baltimore, Md. Canned fruits and vegetables. No. 82,949; Aug. 8; Gaz. vol. 169; p. 445.
W. F. Assau Canning Co., Baltimore, Md. Canned fruits and vegetables. Nos. 83,207–8; Aug. 29; Gaz. vol. 169; p. 1179.
W. F. Schrafft & Sons Corporation, Boston, Mass. Chocolates. No. 83,360; Sept. 5; Gaz. vol. 170; p. 240.
W. F. T. Bushnell Company, Aberdeen, S. D. Periodical. No. 81,587; Apr. 25; Gaz. vol. 165; p. 967.
W. H. Bull Medicine Company, St. Louis, Mo. Medicinal preparation. No. 80,703; Jan. 24; Gaz. vol. 162; p. 995
W. H. Marvin Company, The, Urbana, Ohio. Currants. Nos. 81,535–6; Apr. 18; Gaz. vol. 165; p. 726.
W. H. Marvin Company, The, Urbana, Ohio. Mince-meat. No. 81,537; Apr. 18; Gaz. vol. 165; p. 726.
W. H. Marvin Company, The, Urbana, Ohio. Currants. No. 81,538; Apr. 18; Gaz. vol. 165; p. 726.
W. H. Marvin Company, The, Urbana, Ohio. Currants. No. 81,615; Apr. 25; Gaz. vol. 165; p. 968.
W. H. Marvin Company, The, Urbana, Ohio. Mince-meat. No. 81,892; May 16; Gaz. vol. 166; p. 748.
W. L. Douglas Shoe Co., Portland, Me.; Boston and Brockton, Mass.; New York, N. Y.; Denver, Colo.; Buffalo, N. Y., and Philadelphia, Pa. Leather boots and shoes. No. 82,876; Aug. 1; Gaz. vol. 169; p. 199.

Alphabetical list of registrants of trade-marks—Continued.

W. L. Weller & Sons, Louisville, Ky. Scuppernong-wine. No. 83,875; Oct. 17; Gaz. vol. 171; p. 741.
W. M. Akin Medicine Company, Evansville, Ind. Liniment. No. 83,803; Oct. 17; Gaz. vol. 171; p. 739.
W. R. Manufacturing Co., The, Portland, Me., and Somersworth, N. H. Men's and boys' clothing. No. 84,555; Dec. 19; Gaz. vol. 173; p. 860.
W. & S. Blackinton Company, Providence, R. I., and North Attleboro, Mass. Jewelry. No. 81,847; May 16; Gaz. vol. 166; p. 747.
W. T. Hanson Co., Schenectady, N. Y. Laxative pills. No. 81,265; Mar. 21; Gaz. vol. 164; p. 735.
W. W. Haines Tanning Company, Everett, Wash. Harness and sole leather. No. 84,228; Nov. 21; Gaz. vol. 172; p. 817.
W. W. Welisch & Company Inc., San Francisco, Cal. Rice. No. 82,485; June 27; Gaz. vol. 167; p. 979.
Wadhams & Company, Portland, Oreg. Certain foods. No. 84,351; Nov. 28; Gaz. vol. 172; p. 1086.
Wadsworth, Howland & Co., Boston, Mass. Calcimine. No. 81,234; Mar. 14; Gaz. vol. 164; p. 504.
Wadsworth, Howland & Co., Incorporated, Boston, Mass. Paints, varnishes, stains, &c. No. 81,490; Apr. 11; Gaz. vol. 165; p. 471.
Wadsworth Salt Co., Wadsworth, Ohio. Salt. Nos. 82,278–9; June 13; Gaz. vol. 167; p. 511.
Wadsworth Salt Co., Wadsworth, Ohio. Salt. No. 82,386; June 20; Gaz. vol. 167; p. 760.
Wagner, Edward H., Mineral Wells, Tex. Soap and metal-polish. No. 83,454; Sept. 12; Gaz. vol. 170; p. 479.
Wagner & Leech, Philadelphia, Pa. Deodorizing cream. No. 81,562; Apr. 18; Gaz. vol. 165; p. 727.
Waldorf-Astoria Segar Co. Ltd., New York, N. Y. Cigars. No. 80,690; Jan. 17; Gaz. vol. 162; p. 780.
Waldorf Manufacturing Company, Syracuse, N. Y. Dresses, dress and shirt waists, wrappers, &c. No. 82,733; July 18; Gaz. vol. 168; p. 785.
Walker, Daily J., Lamoni, Iowa. Remedy for roup, cholera, and bowel trouble. No. 83,872; Oct. 17; Gaz. vol. 171; p. 741.
Walker Stetson Co., Boston, Mass. Hosiery. No. 82,734; July 18; Gaz. vol. 168; p. 785.
Wallace, Scott & Co., Limited, Glasgow, Scotland. Clothing. No. 81,040; Feb. 21; Gaz. vol. 163; p. 725.
Wallace, W. D., Clinton, Ind. Remedies for piles. No. 80,745; Jan. 24; Gaz. vol. 162; p. 996.
Wallach Bros., Limited, London, England. Packing formed of a composition of rubber and asbestos. No. 83,455; Sept. 12; Gaz. vol. 170; p. 479.
Wallach Bros., Limited, London, England. Packing and jointing materials. No. 83,456; Sept. 12; Gaz. vol. 170; p. 479.
Walsh, John F., Chicago, Ill. Remedy for hemorrhoids and liver-tablets. No. 83,624; Sept. 26; Gaz. vol. 170; p. 925.
Waltemade Bros. Co., New York, N. Y. Preparation for exterminating roaches, water-bugs, ants, &c. No. 82,662; July 11; Gaz. vol. 168; p. 522.
Walter F. Ware Company, The, Camden, N. J., and Philadelphia, Pa. Urethral syringes. No. 81,371; Mar. 28; Gaz. vol. 164; p. 972.
Walter F. Ware Company, The, Camden, N. J., and Philadelphia, Pa. Combination apron and bandage. No. 81,372; Mar. 28; Gaz. vol. 164; p. 972.
Walter F. Ware Company, Camden, N. J., and Philadelphia, Pa. Suspensories. No. 81,564; Apr. 18; Gaz. vol. 165; p. 726.
Walter F. Ware Company, The, Camden, N. J., and Philadelphia, Pa. Certain medical and surgical appliances. No. 81,761; May 2; Gaz. vol. 166; p. 248.
Walter M. Lowney Company, The, Boston, Mass. Candies. No. 80,857; Feb. 7; Gaz. vol. 163; p. 228.
Walters, William H., St. Louis, Mo. Strainers and anti-splashers for faucets. No. 84,352; Nov. 28; Gaz. vol. 172; p. 1086.
Waltnam Watch Company, Waltham, Mass. Watches, watchcases, watch-movements, and parts thereof. No. 82,124; May 30; Gaz. vol. 166; p. 1279.
Waltham Watch Company, Waltham, Mass. Watch-movements, watches, and parts thereof. No. 82,185; June 6; Gaz. vol. 167; p. 238.
Waltham Watch Company, Waltham, Mass. Watch-movements, watches, and parts thereof. No. 83,873; Oct. 17; Gaz. vol. 171; p. 741.
Waltham Watch Company, Waltham, Mass. Watches. No. 83,952; Oct. 24; Gaz. vol. 171; p. 981.
Waltham Watch Company, Waltham, Mass. Watch-movements, watches, and parts thereof. No. 84,200; Nov. 14; Gaz. vol. 172; p. 546.
Walton & Co., D. S., New York, N. Y. Wrapping-paper. No. 82,934; Aug. 1; Gaz. vol. 169; p. 201.
Ward-Truitt Company, Atlanta, Ga. Lace, shawls, ribbon, elastic webbing, &c. No. 80,883; Feb. 7; Gaz. vol. 163; p. 228.
Ward-Truitt Company, Atlanta, Ga. Overalls, trousers, gloves, and mitts. No. 81,235; Mar. 14; Gaz. vol. 164; p. 504.
Ward-Truitt Company, Atlanta, Ga. Certain furnishing and fancy goods. No. 82,032; May 23; Gaz. vol. 166; p. 983.
Warner Bros. Co., The, Bridgeport, Conn. Corsets. No. 82,280; June 13; Gaz. vol. 167; p. 511.
Warner Brothers Company, New York, N. Y., and Bridgeport, Conn. Corsets. No. 82,186; June 6; Gaz. vol. 167; p. 238.
Warner, Jane, Philadelphia, Pa. Toilet soap. No. 81,314; Mar. 21; Gaz. vol. 164; p. 737.
Warren Chemical & Manufacturing Company, New York, N. Y. Roofing. No. 81,762; May 2; Gaz. vol. 166; p. 248.
Warren Featherbone Co., The, Three Oaks, Mich. Stiffening cords, blades, and tapes. No. 83,112; Aug. 15; Gaz. vol. 169; p. 699.
Warren Manufacturing Company, New York, N. Y. Wrapping-paper. No. 81,929; May 16; Gaz. vol. 166; p. 749.
Warren Webster & Company, Camden, N. J. Steam-heating and ventilating apparatus. No. 84,148; Nov. 7; Gaz. vol. 172; p. 257.
Warrick, Frederic W., Grasse, France. Essential oils, perfumes, floral waters, &c. No. 81,930; May 16; Gaz. vol. 166; p. 749.
Warrick, Frederic W., Grasse, France. Olive-oil. No. 82,187; June 6; Gaz. vol. 167; p. 238.
Warrick, Frederick W., London, England. Capsules, pills, and medicated jujubes. No. 83,874; Oct. 17; Gaz. vol. 171; p. 741.
Wash-Co. Alfalfa Mixed Feed & Milling Co., The, Fort Calhoun, Nebr. Stock and poultry foods. No. 83,702; Oct. 3; Gaz. vol. 171; p. 211.
Washington Standard Slate Company, Slatington, Pa. Roofing-slate. No. 81,042; Feb. 21; Gaz. vol. 163; p. 725.
Water Delivery Company, Pittsburgh, Pa. Certain soft drinks and natural aerated water. No. 84,705; Dec. 26; Gaz. vol. 173; p. 1077.
Water Power Vacuum Cleaner Company, Buffalo, N. Y. Vacuum cleaners and generators. No. 84,556; Dec. 19; Gaz. vol. 173; p. 860.
Waters, Samuel E., Miamisburg, Ohio. Eggs. No. 82,188; June 6; Gaz. vol. 167; p. 238.
Watson Company, The, Chicago, Ill. Poison fly-killers. No. 81,419; Apr. 4; Gaz. vol. 165; p. 238.
Wattles, Waldo M., Battle Creek, Mich. Molasses to be used in the feed of horses and cattle. No. 80,962; Feb. 14; Gaz. vol. 163; p. 479.
Wauchula Citrus Growers Association, Wauchula, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. Nos. 81,931–3; May 16; Gaz. vol. 166; p. 749.
Waverly Oil Works Co., Pittsburgh, Pa. Mineral turpentine. No. 84,063; Oct. 31; Gaz. vol. 171; p. 1255.
Wayland, Harry C., New York, N. Y. Ointment. No. 82,663; July 11; Gaz. vol. 168; p. 522.
Wayne Insect Powder Company, Fort Wayne, Ind. Exterminator of roaches, water-bugs, ants, &c. No. 81,763; May 2; Gaz. vol. 166; p. 248.
Wayne Poultry Tonic Co., Fort Wayne, Ind. Poultry-tonic. No. 82,388; June 20; Gaz. vol. 167; p. 760.
Wayno Manufacturing Company, Fort Wayne, Ind. Non-alcoholic beverages. No. 82,389; June 20; Gaz. vol. 167; p. 760.
Webb Wire Works, The, New Brunswick, N. J. Wire. No. 83,795; Oct. 10; Gaz. vol. 171; p. 479.
Weber & Company, Samuel, Providence, R. I. Trousers. No. 80,963; Feb. 14; Gaz. vol. 163; p. 479.
Weber Electric Company, Schenectady, N. Y. Incandescent-electric-lamp sockets. No. 80,822; Jan. 31; Gaz. vol. 162; p. 1181.
Wed. B. van Doesburg, Mijdrecht and Amsterdam, Netherlands. Cake and biscuits. No. 80,584; Jan. 10; Gaz. vol. 162; p. 533.
Weddle, Harold, New York, N. Y. Net receptacle for Easter toys. No. 83,953; Oct. 24; Gaz. vol. 171; p. 981.
Wedemeyer, Anna, Liberty, N. Y. Medicinal preparations. No. 84,557; Dec. 19; Gaz. vol. 173; p. 860.
Wedgefuth, Louis C., Yonkers, N. Y. Soap. No. 82,664; July 11; Gaz. vol. 168; p. 522.
Wehmann, Hermann, Minneapolis, Minn. Wheat mixed feed. No. 83,954; Oct. 24; Gaz. vol. 171; p. 981.
Wehrkamp, Joseph A., St. Louis, Mo. Tents, awnings, tarpaulins, and canopies. No. 83,457; Sept. 12; Gaz. vol. 170; p. 479.
Wehrkamp, Joseph A., St. Louis, Mo. Tents, awnings, tarpaulins, canopies. No. 83,955; Oct. 24; Gaz. vol. 171; p. 981.
Weideman Company, The, Cleveland, Ohio. Cigars and stogies. No. 80,625; Jan. 10; Gaz. vol. 162; p. 534.
Weideman Milling Company, Cleveland, Ohio. Wheat-flour. No. 81,649; Apr. 25; Gaz. vol. 165; p. 969.
Weideman Milling Company, The, Cleveland, Ohio. Wheat-flour. No. 84,149; Nov. 7; Gaz. vol. 172; p. 257.
Weil & Co., S. N., Cincinnati, Ohio. Whisky. No. 83,195; Aug. 22; Gaz. vol. 169; p. 941.
Weilman Candy Company, Cincinnati, Ohio. Candy. No. 82,248; June 13; Gaz. vol. 167; p. 510.
Weilman Candy Company, Cincinnati, Ohio. Candy. No. 82,281; June 13; Gaz. vol. 167; p. 511.
Weinberg, Isaac H., New York, N. Y. Umbrellas and parasols. No. 81,650; Apr. 25; Gaz. vol. 165; p. 969.

Alphabetical list of registrants of trade-marks—Continued.

Weinhard, Henry, deceased, Portland, Oreg.; L. Weinhard, A. and P. Wessinger, and H. Wagner, executors. Malt beverage. No. 82,666; July 11; Gaz. vol. 168; p. 522.
Weinhard, Louise, *et al.*, executors. (See Weinhard, Henry.)
Weir & Company, Ross W., New York, N. Y. Blended coffee. No. 81,185; Mar. 7; Gaz. vol. 164; p. 247.
Weis Manufacturing and Supply Co., Hammond, Ind. Combined memorandum-pad holding and illuminating devices. No. 84,201; Nov. 14; Gaz. vol. 172; p. 546.
Weis Medicine Co., The Dr. H. F., Dayton, Ohio. Dyspepsia remedy. No. 81,373; Mar. 28; Gaz. vol. 164; p. 972.
Wells-Abbott-Nieman Company, Schuyler, Nebr. Wheat-flour. No. 82,542; July 4; Gaz. vol. 168; p. 246.
Wells, Ephraim S., Jersey City, N. J. Hair-dye. No. 84,558; Dec. 19; Gaz. vol. 173; p. 860.
Wells Flour Milling Company, Wells, Minn. Wheat-flour. No. 82,033; May 23; Gaz. vol. 166; p. 983.
Welsbach Company, Gloucester City, N. J. Gas-lamps and lamp-fixtures. No. 80,626; Jan. 10; Gaz. vol. 162; p. 534.
Welsbach Company, Gloucester, N. J. Incandescent mantles. No. 82,936; Aug. 1; Gaz. vol. 169; p. 201.
Wennersten, Henning, Chicago, Ill. Extract of malt and hops. No. 81,374; Mar. 28; Gaz. vol. 164; p. 972.
Werneburg, John G. W., Cisco, Tex. Remedy for consumption, catarrh, and rheumatism. No. 83,703; Oct. 3; Gaz. vol. 171; p. 211.
Werner & Pfleiderer, Cannstatt, Germany, and Saginaw, Mich. Bake-ovens. No. 81,236; Mar. 14; Gaz. vol. 164; p. 504.
Werner & Pfleiderer, Cannstatt, Germany, and Saginaw, Mich. Mixing-machines. No. 81,565; Apr. 18; Gaz. vol. 165; p. 727.
Werner & Pfleiderer, Cannstatt, Germany, and Saginaw, Mich. Certain machinery. No. 81,765; May 2; Gaz. vol. 166; p. 248.
Werwage, Harry J., Cleveland, Ohio. Roof-paint. No. 81,491; Apr. 11; Gaz. vol. 165; p. 471.
Wesendonck, Walter, New York, N. Y. Hosiery. No. 83,032; Aug. 8; Gaz. vol. 169; p. 447.
Wesendonck, Walter, New York, N. Y. Hosiery. No. 83,113; Aug. 15; Gaz. vol. 169; p. 699.
Weser, John A., New York, N. Y. Pianos and player-pianos. No. 83,876; Oct. 17; Gaz. vol. 171; p. 741.
Wessinger, Anna, *et al.*, executors. (See Weinhard, Henry.)
Wessinger, Paul, *et al.*, executors. (See Weinhard, Henry.)
West Branch Knitting Co., Milton, Pa. Men's textile underdrawers and undershirts. No. 83,956; Oct. 24; Gaz. vol. 171; p. 981.
West Disinfecting Company, New York, N. Y. Soap. No. 84,064; Oct. 31; Gaz. vol. 171; p. 1255.
West End Thread Co., The, Millbury and Boston, Mass. Linen threads. No. 84,065; Oct. 31; Gaz. vol. 171; p. 1255.
West India Oil Company, Bayonne, N. J. Candles. Nos. 82,034–8; May 23; Gaz. vol. 166; p. 983.
West India Oil Company, Bayonne, N. J. Candles. Nos. 82,735–6; July 18; Gaz. vol. 168; p. 785.
West India Oil Company, Bayonne, N. J. Candles. No. 82,848; July 25; Gaz. vol. 168; p. 1030.
West Manufacturing Company, New York, N. Y. Glues. No. 82,039; May 23; Gaz. vol. 166; p. 983.
West Virginia Pulp & Paper Company, New York, N. Y. Printing-paper. Nos. 82,938–40; Aug. 1; Gaz. vol. 169; p. 201.
West Virginia Pulp & Paper Company, New York, N. Y. Writing-paper. No. 82,941; Aug. 1; Gaz. vol. 169; p. 201.
West Virginia Pulp & Paper Company, New York, N. Y. Printing-paper. Nos. 82,942–3; Aug. 1; Gaz. vol. 169; p. 201.
Westcott, Slade & Balcom Company, Providence, R. I. Varnish and floor-finish. No. 83,796; Oct. 10; Gaz. vol. 171; p. 479.
Western Chemical Co., St. Louis, Mo. Insect-destroyers. No. 81,766; May 2; Gaz. vol. 166; p. 248.
Western Clock Manufacturing Company, The, Peru, Ill. Clocks and watches. No. 83,877; Oct. 17; Gaz. vol. 171; p. 741.
Western Clock Mfg. Co., The, Peru, Ill. Clocks and watches. No. 80,627; Jan. 10; Gaz. vol. 162; p. 534.
Western Electric Company, Chicago, Ill., and New York, N. Y. Electric batteries. No. 81,935; May 16; Gaz. vol. 166; p. 749.
Western Electric Company, Chicago, Ill., and New York, N. Y. Electric batteries. No. 83,114; Aug. 15; Gaz. vol. 169; p. 699.
Western Flour Mill Company, New Prague, Minn., and Davenport, Iowa. Wheat-flour. No. 81,767; May 2; Gaz. vol. 166; p. 248.
Western Flour Mill Company, Davenport, Iowa. Wheat-flour. No. 82,543; July 4; Gaz. vol. 168; p. 246.
Western Grain & Sugar Products Co., Agnew, Cal. Stock food. No. 82,486; June 27; Gaz. vol. 167; p. 979.
Western Grocer Company, Marshalltown, Iowa. Coffee. No. 80,628; Jan. 10; Gaz. vol. 162; p. 534.
Western Grocer Company, Marshalltown, Iowa. Canned hominy. No. 82,487; June 27; Gaz. vol. 167; p. 979.
Western Grocer Company, Marshalltown, Iowa. Blended coffee and tea. No. 82,937; Aug. 1; Gaz. vol. 169; p. 201.
Western Grocer Company, Marshalltown, Iowa. Certain foods. Nos. 84,706–8; Dec. 26; Gaz. vol. 173; p. 1077.
Western Magazines Co. Inc., Chicago, Ill. Monthly magazines. No. 82,189; June 6; Gaz. vol. 167; p. 238.
Wheeler, Horace N., Mystic, Conn. Remedy for headache. No. 82,849; July 25; Gaz. vol. 168; p. 1030.
Wheeling Corrugating Company, Wheeling, W. Va. Certain receptacles. No. 82,944; Aug. 1; Gaz. vol. 169; p. 201.
Wheeling Corrugating Company, Wheeling, W. Va. Dry measures. No. 83,115; Aug. 15; Gaz. vol. 169; p. 699.
Wheeling Corrugating Company, Wheeling, W. Va. Galvanized washtubs. No. 83,299; Aug. 29; Gaz. vol. 169; p. 1181.
Whigham, William M., Louisville, Ga. Remedy for certain diseases. No. 82,125; May 30; Gaz. vol. 166; p. 1279.
Whitaker Manufacturing Company, The, Chicago, Ill. Water-bags. No. 82,544; July 4; Gaz. vol. 168; p. 246.
Whitbread & Company, Limited, London, England. Ale. No. 81,420; Apr. 4; Gaz. vol. 165; p. 238.
Whitbread & Company, Limited, London, England. Stout. No. 81,421; Apr. 4; Gaz. vol. 165; p. 238.
Whitcombe, Ward B., Batavia, N. Y. External remedies for diseases of the kidneys and for backache. No. 81,566; Apr. 18; Gaz. vol. 165; p. 727.
White, Branch, Shelton Hat Company, St. Louis, Mo. Hats and caps. No. 82,737; July 18; Gaz. vol. 168; p. 785.
White Brothers, Winchendon, Mass. Cotton piece goods. No. 81,186; Mar. 7; Gaz. vol. 164; p. 247.
White, Wilson, Drew Company, Memphis, Tenn. Mustard, apple-butter, and evaporated apricots. No. 82,488; June 27; Gaz. vol. 167; p. 979.
White-Wilson-Drew Company, Memphis, Tenn. Certain foods. No. 84,353; Nov. 28; Gaz. vol. 172; p. 1086.
Whitestoke Underwear Company Limited, London, England. Woven underwear. No. 83,377; Sept. 5; Gaz. vol. 170; p. 241.
Whitford, Reid, administrator. (See Bailey, C. Williams.)
Whitman & Co., Clarence, New York, N. Y. Sleeping-bags for children. No. 83,378; Sept. 5; Gaz. vol. 170; p. 241.
Whitman & Co., Clarence, New York, N. Y. Negligée shirts and underwear. No. 83,625; Sept. 26; Gaz. vol. 170; p. 925.
Whitney Eckstein Seed Company, Buffalo, N. Y. Popcorn. No. 81,187; Mar. 7; Gaz. vol. 164; p. 247.
Whittemore, Horace A., Boston, Mass. Hockey-sticks and fishing-tackle. No. 81,043; Feb. 21; Gaz. vol. 163; p. 725.
Whittenton Manufacturing Co., Taunton, Mass. Cotton flannels. No. 80,691; Jan. 17; Gaz. vol. 162; p. 780.
Whittredge Bag Company (Incorporated), Lynn, Mass. Belts for personal wear. No. 84,150; Nov. 7; Gaz. vol. 172; p. 257.
Wiese & Co., Wm., New York, N. Y. Automobile-linings, woolen, cotton, &c., piece goods. No. 82,190; June 6; Gaz. vol. 167; p. 238.
Wilbert Company, The, Philadelphia, Pa. Soap. No. 83,459; Sept. 12; Gaz. vol. 170; p. 479.
Wilcox & Co., J. Fred, Chicago, Ill. Cigars. Nos. 82,390–1; June 20; Gaz. vol. 167; p. 760.
Wilcox & Company, J. Fred, Chicago, Ill. Cigars. No. 81,837; May 9; Gaz. vol. 166; p. 509.
Wilcox & Company, J. Fred, Chicago, Ill. Cigars. No. 82,945; Aug. 1; Gaz. vol. 169; p. 201.
Wilder-Strong Implement Co., Monroe, Mich. Ensilage-cutters. No. 81,239; Mar. 14; Gaz. vol. 164; p. 504.
Wilhelm Müller, Fabrik zahnärztlicher Instrumente und Maschinen, Berlin, Germany. Dental and surgical instruments. No. 84,559; Dec. 19; Gaz. vol. 173; p. 860.
Will & Baumer Company, The, Syracuse, N. Y. Candles. No. 83,958; Oct. 24; Gaz. vol. 171; p. 981.
Will & Co., Oscar H., Bismarck, N. D. Certain named seeds. No. 84,443; Dec. 12; Gaz. vol. 173; p. 581.
Willcardo Fruit Company, Winter Park, Fla. Oranges, lemons, tangerines, grape-fruit, and limes. No. 80,692; Jan. 17; Gaz. vol. 162; p. 780.
Willcardo Fruit Company, Winter Park, Fla. Oranges, lemons, tangerines, grape-fruit, and limes. No. 82,738; July 18; Gaz. vol. 168; p. 785.
William A. Webster Co., The, Memphis, Tenn. Gummed printed medicine-labels. No. 80,746; Jan. 24; Gaz. vol. 162; p. 996.
William B. Hough Company, Chicago, Ill. Metal devices for supporting and spacing concrete-reinforcing members. No. 81,463; Apr. 11; Gaz. vol. 165; p. 470.
William B. Hough Company, Chicago, Ill. Concrete mixing, conveying, and distributing machines and parts thereof. No. 81,878; May 16; Gaz. vol. 166; p. 748.
William B. Hough Company, Chicago, Ill. Hoisting-engines and friction hoisting-drums. No. 81,994; May 23; Gaz. vol. 166; p. 982.
William F. Jobbins, Incorporated, Aurora, Ill. Bleach for grease, tallow, oils, &c. No. 81,011; Feb. 21; Gaz. vol. 163; p. 724.
William F. Jobbins, Incorporated, Aurora, Ill. Bleach for grease, tallow, oils, &c. No. 81,338; Mar. 28; Gaz. vol. 164; p. 971.

Alphabetical list of registrants of trade-marks—Continued.

William H. Cole & Co. Ltd., London, England. Hair-pins. No. 81,676; May 2; Gaz. vol. 166; p. 245.
William Herron & Company, Inc., New York, N. Y. Almonds, walnuts, and pecans. No. 82,149; June 6; Gaz. vol. 167; p. 237.
William Herron & Company, Inc., New York, N. Y. Shelled almonds. No. 83,250; Aug. 29; Gaz. vol. 169; p. 1180.
William Hollins & Co. Limited, London, England. Certain clothing. No. 83,068; Aug. 15; Gaz. vol. 169; p. 697.
William Hollins & Co. Ld., London, England. Sheets, pillow-cases, rugs, blankets, and shawls. No. 83,910; Oct. 24; Gaz. vol. 171; p. 979.
William Hollins & Company, Limited, London, England. Neckties. No. 81,274; Mar. 21; Gaz. vol. 164; p. 736.
William Jessop & Sons, Limited, Sheffield, England. Machines and tools. No. 81,010; Feb. 21; Gaz. vol. 163; p. 724.
William Jessop & Sons, Limited, Sheffield, England. Certain machinery and tools. No. 81,394; Apr. 4; Gaz. vol. 165; p. 237.
William Peterman, Jersey City, N. J., and New York, N. Y. Insecticides. No. 81,623; Apr. 25; Gaz. vol. 165; p. 968.
William R. Moore Dry Goods Company, Memphis, Tenn. Cotton piece goods. No. 83,342; Sept. 5; Gaz. vol. 170; p. 240.
William R. Moore Dry Goods Company, Memphis, Tenn. Certain textile fabrics. No. 83,343; Sept. 5; Gaz. vol. 170; p. 240.
William R. Moore Dry Goods Company, Memphis, Tenn. Printed cotton piece goods. No. 83,760; Oct. 10; Gaz. vol. 171; p. 478.
William S. Riley Co., Rochester, N. Y. Butter. No. 82,912; Aug. 1; Gaz. vol. 169; p. 200.
William S. Scull Company, Camden, N. J. Blended teas. No. 82,537; July 4; Gaz. vol. 168; p. 246.
William S. Scull Company, Camden, N. J. Coffee. No. 83,693; Oct. 3; Gaz. vol. 171; p. 211.
William S. Scull Company, Camden, N. J. Coffee. No. 84,686; Dec. 26; Gaz. vol. 173; p. 1076.
Williams & Anderson Company, The, Providence, R. I. Jewelry. No. 84,202; Nov. 14; Gaz. vol. 172; p. 546.
Williams, Bradford L., Philadelphia, Pa. Cloth-cleaning pads. No. 80,563; Jan. 3; Gaz. vol. 162; p. 266.
Williams, Brown and Earle, Inc., Philadelphia, Pa. Chemical product for producing oxygen gas. No. 81,937; May 16; Gaz. vol. 166; p. 749.
Williams & Co., R. C., New York, N. Y. Canned salmon. No. 81,689; May 2; Gaz. vol. 166; p. 246.
Williams & Co., R. C., New York, N. Y. Canned fruit and vegetables. No. 84,710; Dec. 26; Gaz. vol. 173; p. 1077.
Williams Company, Gurnsey B., Syracuse, N. Y. Certain clothing. No. 81,422; Apr. 4; Gaz. vol. 165; p. 238.
Williams Company, Gurnsey B., Syracuse, N. Y. Certain clothing. No. 84,151; Nov. 7; Gaz. vol. 172; p. 257.
Williams, Harry E., Westerville, Ohio. Silver and metal polish. No. 83,460; Sept. 12; Gaz. vol. 170; p. 479.
Williams Piano & Organ Co., Chicago, Ill. Pianos and organs. No. 82,126; May 30; Gaz. vol. 166; p. 1279.
Williams, Richard G., Succasunna, N. J. Tonic for certain diseases caused by impure blood. No. 83,959; Oct. 24; Gaz. vol. 171; p. 981.
Williams, Samuel F., Philadelphia, Pa. Candy. No. 82,667; July 11; Gaz. vol. 168; p. 522.
Williams Soap Company, The, Indianapolis, Ind. Soap. No. 84,561; Dec. 19; Gaz. vol. 173; p. 860.
Willis & Co., Grinnell, New York, N. Y. Cotton piece goods. No. 80,914; Feb. 14; Gaz. vol. 163; p. 477.
Willis & Co., Grinnell, New York, N. Y. Cotton piece goods. No. 81,990; May 23; Gaz. vol. 166; p. 982.
Willis & Co., Grinnell, New York, N. Y. Certain textiles. No. 82,433; June 27; Gaz. vol. 167; p. 978.
Willis, Edward J., Denver, Colo. Pork sausage. No. 81,375; Mar. 28; Gaz. vol. 164; p. 972.
Willogreen Specialty Co., Boston, Mass. Furniture-polish. No. 84,354; Nov. 28; Gaz. vol. 172; p. 1086.
Wilmerding & Bisset, New York, N. Y. Cotton piece goods. No. 82,392; June 20; Gaz. vol. 167; p. 760.
Wilson, Abell A., Baltimore, Md. Hair-tonic. No. 81,938; May 16; Gaz. vol. 166; p. 749.
Wilson Brothers, Chicago, Ill. Handkerchiefs. No. 81,939; May 16; Gaz. vol. 166; p. 749.
Wilson Brothers, Chicago, Ill. Certain clothing. No. 82,850; July 25; Gaz. vol. 168; p. 1030.
Wilson Brothers, Chicago, Ill. Men's neckties, scarfs, suspenders, and belts. No. 82,851; July 25; Gaz. vol. 168; p. 1030.
Wilson, Leonard, Mount Washington, Md. Stilts. No. 83,034; Aug. 8; Gaz. vol. 169; p. 447.
Wilson Remover Co., Newark, N. J. Paint and varnish solvents and removers. No. 83,116; Aug. 15; Gaz. vol. 169; p. 699.
Windhorst & Company, St. Louis, Mo. Certain lighting apparatus. No. 81,651; Apr. 25; Gaz. vol. 165; p. 969.
Windsor Print Works, The, North Adams, Mass., and New York, N. Y. Wool and cotton mixed fabrics. No. 81,240; Mar. 14; Gaz. vol. 164; p. 504.
Windsor Print Works, North Adams, Mass., and New York, N. Y. Cotton and silk piece goods. No. 82,489; June 27; Gaz. vol. 167; p. 979.
Winkelmann, Friedrich W., Hamburg, Germany. Bitters. No. 83,878; Oct. 17; Gaz. vol. 171; p. 741.
Winkless, Lamartine W., Jr., San Jose, Cal. Tonic beverage. No. 83,532; Sept. 19; Gaz. vol. 170; p. 701.
Winter Garden Citrus Growers Association, Winter Garden, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 81,563; Apr. 18; Gaz. vol. 165; p. 727.
Winter Haven Citrus Growers Association, Winterhaven, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. Nos. 81,652–3; Apr. 25; Gaz. vol. 165; p. 969.
Winter Haven Citrus Growers' Association, Winterhaven, Fla. Oranges, lemons, grape-fruit, tangerines, and limes. No. 81,940; May 16; Gaz. vol. 166; p. 749.
Winter Loeb Grocery Co., Montgomery, Ala. Wheat-flour. No. 80,747; Jan. 24; Gaz. vol. 162; p. 996.
Wintersmith Medicine Co., The., Louisville, Ky. Digestive tonic. No. 83,879; Oct. 17; Gaz. vol. 171; p. 741.
Wise Brothers, New York, N. Y., and Baltimore, Md. Shirts, overalls, undercoats, and trousers. No. 81,492; Apr. 11; Gaz. vol. 165; p. 471.
Wise, G. & A., New York, N. Y. Hosiery. No. 83,461; Sept. 12; Gaz. vol. 170; p. 479.
Wm. A. Coombs Milling Company, Coldwater, Mich. Wheat-flour. No. 81,254; Mar. 21; Gaz. vol. 164; p. 735.
Wm. A. Miles & Co., New York, N. Y. Ale and brown stout. No. 82,346; June 20; Gaz. vol. 167; p. 759.
Wm. A. Rogers, Limited, New York, N. Y. Steel carving-knives. No. 84,131; Nov. 7; Gaz. vol. 172; p. 257.
Wm. A. Stickney Cigar Co., St. Louis, Mo. Cigars. No. 83,446; Sept. 12; Gaz. vol. 170; p. 479.
Wm. Alten Co., Inc., New York, N. Y. Wheat-flour. No. 80,632; Jan. 17; Gaz. vol. 162; p. 779.
Wm. Alten Co., Inc., New York, N. Y. Wheat-flour. No. 80,749; Jan. 31; Gaz. vol. 162; p. 1179.
Wm. Alten Co., Inc., New York, N. Y. Wheat-flour. No. 83,466; Sept. 19; Gaz. vol. 170; p. 699.
Wm. B. Riker & Son Company, New York, N. Y. Absorbent cotton, hot-water bottles, and fountain-syringes. No. 80,805; Jan. 31; Gaz. vol. 162; p. 1180.
Wm. B. Riker & Son Company, New York, N. Y. Cigars. No. 80,953; Feb. 14; Gaz. vol. 163; p. 479.
Wm. Cameron & Co., Waco, Tex. Felt roofing. No. 81,673; May 2; Gaz. vol. 166; p. 245.
Wm. Cameron & Company, Waco, Tex. Certain construction materials. No. 81,588; Apr. 25; Gaz. vol. 165; p. 967.
Wm. J. Hooper Mfg. Co., Baltimore, Md. Twine and cord. No. 81,462; Apr. 11; Gaz. vol. 165; p. 470.
Wm. M. Flanders Co., Boston, Mass. Coffee. No. 83,826; Oct. 17; Gaz. vol. 171; p. 739.
Wm. Pollock Milling & Elevator Co., Mexico, Mo. Mixed stock feed. No. 84,371; Dec. 5; Gaz. vol. 173; p. 283.
Woldert Grocery Company, Tyler, Tex., and Chicago, Ill. Nutcrackers. No. 83,379; Sept. 5; Gaz. vol. 170; p. 241.
Wolf & Co., Louis, Boston, Mass. Dolls. No. 83,302; Aug. 29; Gaz. vol. 169; p. 1182.
Wolf, Joshua J., Tioga, Pa. Medicated soap. No. 83,301; Aug. 29; Gaz. vol. 169; p. 1182.
Wolfe, Auxilice, Pawtucket, R. I. Compound for bleaching. No. 81,654; Apr. 25; Gaz. vol. 165; p. 969.
Wolferman, Milton J., New York, N. Y. Silver hollow and flat ware. No. 83,303; Aug. 29; Gaz. vol. 169; p. 1182.
Wolverine Lubricants Company, Dover, Del. Lubricating oils and greases. No. 83,117; Aug. 15; Gaz. vol. 169; p. 699.
Wood, Albert F., Detroit, Mich. Cold-cream, perfumery, and toilet water. No. 83,880; Oct. 17; Gaz. vol. 171; p. 741.
Wood, Albert F., Detroit, Mich. Certain toilet preparations. No. 84,152; Nov. 7; Gaz. vol. 172; p. 257.
Wood and Turner, Malone, Tex. Hair-tonic. No. 84,355; Nov. 28; Gaz. vol. 172; p. 1086.
Woodbury Granite Company, Hardwick, Vt. Quarried granite. No. 83,622; Sept. 26; Gaz. vol. 170; p. 925.
Woodington Manufacturing Company, Philadelphia, Pa. Metal-polish. No. 82,393; June 20; Gaz. vol. 167; p. 760.
Woodman, Herbert C., Portland, Me. Paste dentifrices. No. 84,153; Nov. 7; Gaz. vol. 172; p. 257.
Woodward and Wanger, Philadelphia, Pa. Washers for cocks, faucets, and spigots. No. 81,117; Feb. 28; Gaz. vol. 163; p. 975.
Woolson Spice Company, Toledo, Ohio. Blended coffee. No. 82,823; July 25; Gaz. vol. 168; p. 1029.
Woonsocket Shuttle Company, Woonsocket, R. I. Loom-shuttles. No. 81,116; Feb. 28; Gaz. vol. 163; p. 975.
Worcester, Samuel T., Portland, Me. Writing-inks in solid form. No. 83,960; Oct. 24; Gaz. vol. 171; p. 981.
World's Best Film Company, Chicago, Ill. Moving-picture films. No. 84,608; Dec. 26; Gaz. vol. 173; p. 1074.
Worthington Company, Elyria, Ohio. Bicycles, velocipedes, tricycles, &c. No. 81,376; Mar. 28; Gaz. vol. 164; p. 972.
Wright, Henry A., Akron, Ohio. Liquid metal-polish. No. 80,564; Jan. 3; Gaz. vol. 162; p. 266.
Wulbern Fertilizer Company, Charleston, S. C. Fertilizers. No. 81,839; May 9; Gaz. vol. 166; p. 509.
Wunder, Joseph C., Baltimore, Md. Remedy for constipation. No. 80,693; Jan. 17; Gaz. vol. 162; p. 780.
Wunsch, Julius E., New York, N. Y. Gloves and hosiery. No. 83,380; Sept. 5; Gaz. vol. 170; p. 241.
Wyatt, John C., Vancouver, Wash. Remedy for asthma. No. 80,884; Feb. 7; Gaz. vol. 163; p. 228.

Alphabetical list of registrants of trade-marks—Continued.

Wyman Canning Co., Millbridge, Me. Canned sardines. No. 83,118; Aug. 15; Gaz. vol. 169; p. 699.
X-Cel-O Glove Co., Buffalo, N. Y. Gloves and mittens. No. 84,066; Oct. 31; Gaz. vol. 171; p. 1255.
Yakima County Horticultural Union, North Yakima, Wash. Fresh apples. No. 82,547; July 4; Gaz. vol. 168; p. 246.
Yale Jewelry Manufacturing Company, Providence, R. I. Certain precious-metal and plated articles. No. 80,823; Jan. 31; Gaz. vol. 162; p. 1181.
Yamamura, Tazaemon, Uosaki, Japan. Sake. No. 84,577; Dec. 26; Gaz. vol. 173; p. 1073.
Yates & Co., C. H., Utica, N. Y. Hosiery. Nos. 80,565–6; Jan. 3; Gaz. vol. 162; p. 266.
Yawman & Erbe Mfg. Co., Rochester, N. Y. Envelops and folders. No. 83,035; Aug. 8; Gaz. vol. 169; p. 447.
Yes Bay Canning Co., Yes Bay, Alaska, and Portland, Oreg. Canned salmon. No. 83,961; Oct. 24; Gaz. vol. 171; p. 981.
Yesterlaid Egg Farms Co., Pacific, Mo. Chicken-coops. No. 80,939; Feb. 14; Gaz. vol. 163; p. 478.
Yingling-Martin Brick Company, Johnsonburg, Pa. Brick and building-blocks. No. 83,304; Aug. 29; Gaz. vol. 169; p. 1182.
York, Chauncey F., Detroit, Mich. Remedy for affections of the nose, mouth, throat, and lungs. No. 81,655; Apr. 25; Gaz. vol. 165; p. 969.
York, Chauncey F., Detroit, Mich. Remedy for coughs, colds, catarrh, &c. No. 81,656; Apr. 25; Gaz. vol. 165; p. 969.
Young Bros., Inc., Seattle, Wash. Tea, flavoring extracts, and spices. No. 81,189; Mar. 7; Gaz. vol. 164; p. 247.
Young and Company, Charles W., Philadelphia, Pa. Soaps. No. 82,128; May 30; Gaz. vol. 166; p. 1279.
Young & Metzner, Long Island City, N. Y. Jute bagging for covering cotton. No. 83,305; Aug. 29; Gaz. vol. 169; p. 1182.
Young & Metzner, Long Island City, N. Y. Jute bagging for covering cotton. No. 83,463; Sept. 12; Gaz. vol. 170; p. 479.
Young & Metzner, Long Island City, N. Y. Bag-patches made of jute cloth. Nos. 83,797–8; Oct. 10; Gaz. vol. 171; p. 479.
Young & Metzner, Long Island City, N. Y. Jute bags. Nos. 83,962–5; Oct. 24; Gaz. vol. 171; p. 981.
Young & Metzner, Long Island City, N. Y. Jute bags. No. 84,053; Oct. 31; Gaz. vol. 171; p. 1255.
Young & Smith, Dorchester, Mass. Hat-dressings. No. 83,306; Aug. 29; Gaz. vol. 169; p. 1182.
Yours Truly Company. (See Clague, Stanley, assignor.)
Yours Truly Company, Chicago, Ill. Toasted corn-flakes. No. 82,668; July 11; Gaz. vol. 168; p. 522.
Yvette Hair Goods Company, New York, N. Y. Coiffures. No. 84,154; Nov. 7; Gaz. vol. 172; p. 257.
Zahner and Schiess and Company, New York, N. Y. Embroideries. Nos. 83,196–7; Aug. 22; Gaz. vol. 169; p. 941.
Zechnowitz, Samuel, New York, N. Y. Blended coffee. No. 83,705; Oct. 3; Gaz. vol. 171; p. 211.
Zeltmacher, George E., New York, N. Y. Belts for personal wear. No. 83,307; Aug. 29; Gaz. vol. 169; p. 1182.
Zenith Milling Company, Kansas City, Mo. Wheat-flour. No. 83,706; Oct. 3; Gaz. vol. 171; p. 211.
Zensal Company, The, Oklahoma, Okla. Remedies for diseases of the skin. No. 84,155; Nov. 7; Gaz. vol. 172; p. 257.
Zimmermann, Firm of Jos., Aachen, Germany. Needles for talking-machines. No. 80,973; Feb. 21; Gaz. vol. 163; p. 723.
Zimmermann, Firm of Jos., Aachen, Germany. Pins and needles. No. 81,190; Mar. 7; Gaz. vol. 164; p. 247.
Zinsser, William H., New York, N. Y. Shellac and other varnishes. No. 82,739; July 18; Gaz. vol. 168; p. 785.
Zinsser, William H., New York, N. Y. Wax wood-polish. No. 83,199; Aug. 22; Gaz. vol. 169; p. 941.
Zinsser, William H., New York, N. Y. Wood-polishing oil. No. 83,799; Oct. 10; Gaz. vol. 171; p. 479.
Zittlosen Manufacturing Co., St. Louis, Mo. Tenting cloth, canvas, and cotton piece goods. No. 82,548; July 4; Gaz. vol. 168; p. 246.
Zittlosen Manufacturing Co., St. Louis, Mo. Tents, tarpaulins, canopies, and awnings. No. 84,203; Nov. 14; Gaz. vol. 172; p. 546.
Zoa-Muca, New York, N. Y. Suppositories and stomach-tonic. No. 83,119; Aug. 15; Gaz. vol. 169; p. 699.
Zog, Ltd., London, England. Cleansing preparation for paints. No. 83,465; Sept. 12; Gaz. vol. 170; p. 479.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

A. G. Morse Co., Chicago, Ill. "Morse's Chocolates." (For Chocolate Candy.) No. 16,071; Dec. 19; Gaz. vol. 173; p. 861.

Acme Chemical Co., Inc., Providence, R. I. "Dutch Brand Sweetened Cocoa." (For Cocoa.) No. 15,605; Mar. 21; Gaz. vol. 164; p. 738.

Adale Chemical Company, Grantwood, N. J. "Tablet Asperol Compound." (For an Asperol Compound.) No. 15,746; May 23; Gaz. vol. 166; p. 984.

Adirondack Maple Co., Lowville, N. Y. "Pride of the Adirondacks." (For Maple-Syrup.) No. 15,654; Apr. 18; Gaz. vol. 165; p. 728.

Adirondack Maple Co., Lowville, N. Y. "Adirondack Maple Company's Cane and Maple Breakfast Syrup." (For a Compound of Cane and Maple Syrups.) No. 15,706; May 2; Gaz. vol. 166; p. 249.

Ainsworth, William A., Stittville, N. Y. "Bachelor Buttonless Knit Night Shirts." (For Night-Shirts.) No. 15,447; Jan. 3; Gaz. vol. 162; p. 267.

Ajax Portland Cement Co., New York, N. Y. "Rose Portland Cement." (For Portland Cement.) No. 15,528; Feb. 7; Gaz. vol. 163; p. 229.

Albrecht, Wilhelm, Boston, Mass. "Te-Pee." (For Bourbon Whisky.) No. 16,029; Nov. 21; Gaz. vol. 172; p. 820.

Albrecht, Wilhelm, Boston, Mass. "Massapoag." (For Rye Whisky.) No. 16,030; Nov. 21; Gaz. vol. 172; p. 820.

Albrecht, Wilhelm, Boston, Mass. "Pendergast." (For Rye Whisky.) No. 16,031; Nov. 21; Gaz. vol. 172; p. 820.

Albrecht, Wilhelm, Boston, Mass. "Under Lock." (For Rye Whisky.) No. 16,032; Nov. 21; Gaz. vol. 172; p. 820.

Albrecht, Wilhelm, Boston, Mass. "American League." (For Rye Whisky.) No. 16,033; Nov. 21; Gaz. vol. 172; p. 820.

Albrecht, Wilhelm, Boston, Mass. "Top Sail." (For Rye Whisky.) No. 16,034; Nov. 21; Gaz. vol. 172; p. 820.

Alexander & Co., L. & M., San Francisco, Cal. "Velvet Finish." (For Carbon-Paper.) No. 15,524; Feb. 7; Gaz. vol. 163; p. 229.

Allen & Shawver, Sheridan, Wyo. "Booster." (For Cigars.) No. 15,806; July 4; Gaz. vol. 168; p. 247.

Allen & Smith Co. Inc., Richmond, Va. "Goodnuff." (For Candy.) No. 15,752; May 30; Gaz. vol. 166; p. 1280.

Allith Manufacturing Company, Chicago, Ill. "Allith 'Reliable' Round Track Door Hangers." (For Door-Hangers.) No. 15,648; Apr. 11; Gaz. vol. 165; p. 472.

Alvarez & Garcia, New York, N. Y., and Caguas, Porto Rico. "Jose Garcia." (For Cigars.) No. 15,702; May 2; Gaz. vol. 166; p. 249.

American Brewing Company of Pekin, The, Pekin, Ill. "Old Pure Culture Lager." (For Beer.) No. 15,862; Aug. 29; Gaz. vol. 169; p. 1183.

American Candy Co., Milwaukee, Wis. "Milady of Quality." (For Chocolates.) No. 15,689; Apr. 25; Gaz. vol. 165; p. 970.

American Druggists Syndicate, New York and Long Island City, N. Y. "A. D. S. Peredixo Cream." (For Toilet Cream.) No. 15,521; Feb. 7; Gaz. vol. 163; p. 229.

American Ink Company, The, Denver, Colo. "American Blue Ribbon Writing Ink." (For Writing-Inks.) No. 15,823; July 18; Gaz. vol. 168; p. 786.

American Lithographic Company, New York, N. Y. "Statement." (For Cigars.) No. 15,573; Mar. 7; Gaz. vol. 164; p. 248.

American Lithographic Company, New York, N. Y. "Flor Fina." (For Cigars.) No. 15,574; Mar. 7; Gaz. vol. 164; p. 248.

American Lithographic Company, New York, N. Y. "La Cresta." (For Cigars.) No. 15,683; Apr. 25; Gaz. vol. 165; p. 970.

American Lithographic Company, New York, N. Y. "La Rosa De Armas." (For Cigars.) No. 15,684; Apr. 25; Gaz. vol. 165; p. 970.

American Lithographic Company, New York, N. Y. "Oro De Habana." (For Cigars.) No. 15,685; Apr. 25; Gaz. vol. 165; p. 970.

American Lithographic Company, New York, N. Y. "Juan Benito." (For Cigars.) No. 15,686; Apr. 25; Gaz. vol. 165; p. 970.

American Lithographic Company, New York, N. Y. "Flor De Arolas." (For Cigars.) No. 15,687; Apr. 25; Gaz. vol. 165; p. 970.

American Lithographic Company, New York, N. Y. "Cigars." (For Cigars.) No. 15,973; Oct. 17; Gaz. vol. 171; p. 742.

American Lithographic Company, New York, N. Y. "Smoke Cigars." (For Cigars.) No. 16,003; Nov. 7; Gaz. vol. 172; p. 258.

American Lithographic Company, New York, N. Y. "Cigars." (For Cigars.) No. 16,004; Nov. 7; Gaz. vol. 172; p. 258.

Ammon & Person, Jersey City, N. J. "Ammon & Persons A. & P. Brand." (For Oleomargarin.) No. 15,710; May 2; Gaz. vol. 166; p. 249.

Ammon & Person, Jersey City, N. J. "Gold Medal." (For Butter.) No. 15,975; Oct. 17; Gaz. vol. 171; p. 742.

Ammon & Person, Jersey City, N. J. "Gold Medal." (For Butter.) No. 15,995; Oct. 31; Gaz. vol. 171; p. 1256.

Anger Baking Company, New York, N. Y. "La Astorgana." (For Biscuits.) No. 16,036; Nov. 21; Gaz. vol. 172; p. 820.

Arcadia Food Company, New York, N. Y. "Easy Pudding." (For Pudding.) No. 15,965; Oct. 10; Gaz. vol. 171; p. 480.

Archambault, Dr. Jean B., Woonsocket, R. I. "Dr. J. B. Archambault's Long Life Tonic." (For Tonic.) No. 15,753; May 30; Gaz. vol. 166; p. 1280.

Arguimbau & Ramée, New York, N. Y. "Armée Brand Cream Peanut Butter." (For Peanut-Butter.) No. 16,010; Nov. 7; Gaz. vol. 172; p. 258.

Armstrong Cork Co., Pittsburgh, Pa. "Nonpareil High Pressure Blocks." (For High-Pressure Blocks.) No. 16,076; Dec. 26; Gaz. vol. 173; p. 1078.

Armstrong Cork Co., Pittsburgh, Pa. "Nonpareil High Pressure Covering." (For High-Pressure Coverings.) No. 16,077; Dec. 26; Gaz. vol. 173; p. 1078.

Armstrong, Lewis N., Providence, R. I. "Armstrong's Onion Salad." (For Onion Salad.) No. 15,794; June 27; Gaz. vol. 167; p. 980.

Arocena & Co., Milwaukee, Wis. "Flor de Anecora." (For Cigars.) No. 15,499; Feb. 7; Gaz. vol. 163; p. 229.

Ashland Match Company, The, Ashland, Ohio. "Certain Light." (For Matches.) No. 15,539; Feb. 14; Gaz. vol. 163; p. 480.

Association of Hammonton Dahlia Growers, Hammonton, N. J. "Hammonton Dahlias." (For Dahlias.) No. 15,608; Mar. 21; Gaz. vol. 164; p. 738.

Atkins, J. S., Cincinnati, Ohio. "Samuel's Phospho Pepsin Papain Compound." (For Proprietary Medicines.) No. 16,078; Dec. 26; Gaz. vol. 173; p. 1078.

B. R. Gilmour & Co., New York, N. Y. "Egg Rolling." (For a Game.) No. 15,491; Jan. 24; Gaz. vol. 162; p. 997.

B. R. Gilmour & Co., New York, N. Y. "The Toy Village." (For Toys.) No. 15,542; Feb. 14; Gaz. vol. 163; p. 480.

Babcock, Della, Walton, N. Y. "Babcock Spavin Remedy." (For Spavin Remedies.) No. 15,628; Apr. 4; Gaz. vol. 165; p. 239.

Barnaby Manufacturing Co., Fall River, Mass. "The Weave That Will Wash Well And Wear." (For Cotton Piece Goods.) Nos. 15,495–7; Jan. 31; Gaz. vol. 162; p. 1182.

Barnaby Manufacturing Co., Fall River, Mass. "The Weave that Will Wash Well and Wear." (For Cotton Piece Goods.) No. 15,548; Feb. 14; Gaz. vol. 163; p. 480.

Barnes, Thurlow W., New York, N. Y. "Rhinelander." (For Drinking-Water.) No. 15,750; May 30; Gaz. vol. 166; p. 1280.

Barnes, Thurlow W., New York, N. Y. "Rhinelander." (For Drinking-Water.) No. 15,787; June 27; Gaz. vol. 167; p. 980.

Barth, Geo., Green Bay, Wis. "Green Bay Yacht Club Cigars." (For Cigars.) No. 15,987; Oct. 31; Gaz. vol. 171; p. 1256.

Bartholomew, W. I., Wheeling, W. Va. "Wheeling Big Havana." (For Cigars and Stogies.) No. 15,991; Oct. 31; Gaz. vol. 171; p. 1256.

Bass Islands Vineyard Co., The, Sandusky, Ohio. "Bass Islands." (For Unfermented Grape-Juice.) No. 15,869; Sept. 5; Gaz. vol. 170; p. 242.

Bear Chemical Company, The, Elkton, Va. "Bear's Emulsion." (For Petroleum Combined with Hypophosphites.) No. 15,591; Mar. 7; Gaz. vol. 164; p. 248.

Beggs Brothers Company, The, Confluence, Pa. "Mye Ladys." (For Stationery.) No. 16,058; Dec. 12; Gaz. vol. 173; p. 582.

Beiersdorf & Co., P., Hamburg, Germany. "Pebeco Tooth Paste." (For Tooth-Paste.) No. 15,762; June 6; Gaz. vol. 167; p. 239.

Berth, Levi & Co., Chicago, Ill. "Testbest Binder." (For Sausage-Flour.) No. 15,712; May 2; Gaz. vol. 166; p. 249.

Bigony, Hiram J., Mohnton, Pa. "Bull Dog Hose." (For Hosiery.) No. 15,679; Apr. 18; Gaz. vol. 165; p. 728.

Alphabetical list of registrants of labels—Continued.

Billings Brewing Company, Billings, Mont. "Old Fashion Beer." (For Beer.) No. 15,638; Apr. 11; Gaz. vol. 165; p. 472.
Binghamton Soap Works, Binghamton, N. Y. "1900 Cleaner." (For Cleaning-Powder.) No. 15,888; Sept. 12; Gaz. vol. 170; p. 480.
Biondy, Marius, Philadelphia, Pa. "Biondy's Dandruff & Hair Preparation." (For Dandruff and Hair Preparation.) No. 15,874; Sept. 5; Gaz. vol. 170; p. 242.
Birk, Charles H., Columbus, Ohio. "Indianola." (For Cigars.) No. 15,831; Aug. 8; Gaz. vol. 169; p. 448.
Bleecker & Simons, New York, N. Y. "B & S." (For Teas.) No. 15,785; June 27; Gaz. vol. 167; p. 980.
Block Co., Frank E., Atlanta, Ga. "Graham Wafers." (For Crackers.) No. 15,840; Aug. 8; Gaz. vol. 169; p. 448.
Blue Ribbon Candy Co., The, Baltimore, Md. "Little Red Riding Hood." (For Candies.) No. 15,926; Sept. 26; Gaz. vol. 170; p. 926.
Boekell and Clark, New York, N. Y. "While I Live I'll Crow." (For Metal-Polish.) No. 16,015; Nov. 7; Gaz. vol. 172; p. 258.
Boggio, Dino, New York, N. Y. "Liquore Pietro Micca." (For Cordials.) No. 15,969; Oct. 10; Gaz. vol. 171; p. 480.
Booraem, J. Francis, New York, N. Y. "Give Me A Hold I Shall Lift The Earth." (For Expansion-Bolts.) No. 15,976; Oct. 17; Gaz. vol. 171; p. 742.
Bosworth, Mary A., New York, N. Y. "Ulita Cream." (For a Skin-Lotion.) No. 15,777; June 20; Gaz. vol. 167; p. 761.
Boucher, Leon S., Joplin, Mo. "Society King." (For Cigars.) No. 15,562; Feb. 28; Gaz. vol. 163; p. 976.
Bour Company, The, Toledo, Ohio. "Arabian Banquet." (For Coffee.) No. 15,735; May 16; Gaz. vol. 166; p. 750.
Bour Company, The, Toledo, Ohio. "Bour's Pilot Coffee." (For Coffee.) No. 16,079; Dec. 26; Gaz. vol. 173; p. 1078.
Breen, Thomas G., Boston, Mass. "Cosy Cup Brand." (For Tea.) No. 16,080; Dec. 26; Gaz. vol. 173; p. 1078.
Brenner, John A., Marion, Ark. "Mexican Hot." (For a Non-Alcoholic Temperance Beverage.) No. 15,784; June 27; Gaz. vol. 167; p. 980.
Brooke, Bond & Company Limited, London, England. "Brooke Bond Tea." (For Tea.) No. 15,513; Feb. 7; Gaz. vol. 163; p. 229.
Brooks, Miller, Los Angeles, Cal. "Cereal Foods Composed of All of the Grains for Muscle and Brains." (For Cereal Foods.) No. 15,729; May 9; Gaz. vol. 166; p. 510.
Brown Chemical Co., Atlanta, Ga. "Dr. George Brown's Catarrh Cabinet." (For Medicine and Apparatus for the Treatment of Catarrh.) No. 15,921; Sept. 26; Gaz. vol. 170; p. 926.
Brown, Edwin F., Chicago, Ill. "Driftwood." (For Cigars.) No. 15,453; Jan. 17; Gaz. vol. 162; p. 781.
Brown and Frank, Crown Point, Ind. "Perseverence Brings Success—Result: Crown Blueing." (For Bluing.) No. 15,595; Mar. 7; Gaz. vol. 164; p. 248.
Brown, Louis, Danvers, Mass. "Louis Original French Salad Dressing." (For Salads.) No. 15,691; Apr. 25; Gaz. vol. 165; p. 970.
Brownstein, Henry I., Chicago, Ill. "Brownstein's Bigaline." (For a Preparation for Ironing.) No. 15,846; Aug. 8; Gaz. vol. 169; p. 448.
Bruce, Matthew, Newburgh, N. Y. "Bruceline." (For Hair-Restorer.) No. 16,013; Nov. 7; Gaz. vol. 172; p. 258.
Bucklin's Liquid Gall Remedy Company, New Rockford, N. D. "Liquid Gall Remedy." (For Medical Compound.) No. 15,555; Feb. 21; Gaz. vol. 163; p. 726.
Bunte Bros., Chicago, Ill. "Chocolate Covered Strawberries." (For Candies.) No. 15,967; Oct. 10; Gaz. vol. 171; p. 480.
Burckhardt, F., San Francisco, Cal. "Burckhardt's German Style Home Made Egg Noodles." (For Egg-Noodles.) No. 15,519; Feb. 7; Gaz. vol. 163; p. 229.
Burianek & Son, Joseph, Elgin, Iowa. "Cedar Rapids Suits Me." (For Cigars.) No. 15,635; Apr. 11; Gaz. vol. 165; p. 472.
Burke, M. H., Somerville, N. J. "The Graduator Shoe." (For Shoes.) No. 15,457; Jan. 17; Gaz. vol. 162; p. 781.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "John Hall." (For Cigars.) No. 15,500; Feb. 7; Gaz. vol. 163; p. 229.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "El Finero." (For Cigars.) No. 15,501; Feb. 7; Gaz. vol. 163; p. 229.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "La Lunda." (For Cigars.) No. 15,502; Feb. 7; Gaz. vol. 163; p. 229.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Delgado." (For Cigars.) No. 15,503; Feb. 7; Gaz. vol. 163; p. 229.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Art." (For Cigars.) No. 15,529; Feb. 14; Gaz. vol. 163; p. 480.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Train Order." (For Cigars.) No. 15,634; Apr. 11; Gaz. vol. 165; p. 472.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Gerlinda." (For Cigars.) No. 15,682; Apr. 25; Gaz. vol. 165; p. 970.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "The Big Noise." (For Cigars.) No. 15,861; Aug. 29; Gaz. vol. 169; p. 1183.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Dona Vera." (For Cigars.) No. 15,914; Sept. 26; Gaz. vol. 170; p. 926.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Dead Shot." (For Cigars.) No. 15,931; Oct. 3; Gaz. vol. 171; p. 212.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Ramiro." (For Cigars.) No. 15,932; Oct. 3; Gaz. vol. 171; p. 212.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "La Vertura." (For Cigars.) No. 15,933; Oct. 3; Gaz. vol. 171; p. 212.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "El Ciro." (For Cigars.) No. 15,934; Oct. 3; Gaz. vol. 171; p. 212.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "El Delico." (For Cigars.) No. 15,935; Oct. 3; Gaz. vol. 171; p. 212.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Miador." (For Cigars.) No. 15,936; Oct. 3; Gaz. vol. 171; p. 212.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Mi Estima." (For Cigars.) No. 15,937; Oct. 3; Gaz. vol. 171; p. 212.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "Kim-Bar." (For Cigars.) No. 15,959; Oct. 10; Gaz. vol. 171; p. 480.
C. B. Henschel Mfg. Co., Milwaukee, Wis. "La Irma." (For Cigars.) No. 16,091; Dec. 26; Gaz. vol. 173; p. 1078.
C. F. Mueller Co., Jersey City, N. J. "Trisom." (For Egg-Noodles.) No. 15,962; Oct. 10; Gaz. vol. 171; p. 480.
Cahn, Herman J., Baltimore, Md. "'Collar Hug' Clothes." (For Clothing.) No. 15,986; Oct. 24; Gaz. vol. 171; p. 982.
Calcutt, Reginald B., Chicago, Ill. "Quick Repair." (For Repair Kits.) No. 15,780; June 20; Gaz. vol. 167; p. 761.
Calcutt, Reginald B., Chicago, Ill. "Quick Repair." (For Tires and Repair Kits.) No. 15,830; Aug. 1; Gaz. vol. 169; p. 202.
California Almond Growers Exg., Sacramento, Cal. "Fancy Brand." (For Almonds.) No. 15,925; Sept. 26; Gaz. vol. 170; p. 926.
California Fruit Distributors, Sacramento, Cal. "Dainty Seedless Grapes From California." (For Grapes.) No. 16,059; Dec. 12; Gaz. vol. 173; p. 582.
California Fruit Distributors, Sacramento, Cal. "Delicious Fruits From California." (For Fruits.) No. 16,060; Dec. 12; Gaz. vol. 173; p. 582.
Campbell Co., The, Boston, Mass. "Gold Seal." (For a Cooking-Oil.) No. 15,743; May 23; Gaz. vol. 166; p. 984.
Carlson, Carl A., Chicago, Ill. "Bond-Ost." (For Cheese.) No. 16,072; Dec. 19; Gaz. vol. 173; p. 861.
Carlson, Carl A., Chicago, Ill. "Kummin-Ost." (For Cheese.) No. 16,073; Dec. 19; Gaz. vol. 173; p. 861.
Cellon, George B., Miami, Fla. "How To Prepare And Eat The Mango." (For Mango-Fruit.) No. 15,978; Oct. 24; Gaz. vol. 171; p. 982.
Central Lithograph Co., The, Cleveland, Ohio. "Yama-Yama Candy." (For Candy.) No. 15,835; Aug. 8; Gaz. vol. 169; p. 448.
Century Chemical Company, St. Louis, Mo. "Sursene Powder." (For Antiseptic Powder.) No. 15,593; Mar. 7; Gaz. vol. 164; p. 248.
Chalmers & Son, Harvey, Amsterdam, N. Y. "Chalmers Pearls." (For Shell Buttons.) No. 15,748; May 23; Gaz. vol. 166; p. 984.
Charente Importation Company, New York, N. Y. "Very Old Senate Brandy." (For Brandy.) No. 15,650; Apr. 18; Gaz. vol. 165; p. 728.
Charente Importation Company, New York, N. Y. "Senate Bouquet Brandy." (For Brandy.) No. 15,651; Apr. 18; Gaz. vol. 165; p. 728.
Charleston Pepsi Cola Bottling Co., Charleston, S. C. "The Famous Royal Ribbon Ginger Ale." (For Ginger-Ale.) No. 15,833; Aug. 8; Gaz. vol. 169; p. 448.
Chas. Jacquin et Cie., New York, N. Y. "Jacquinet." (For Wine.) No. 15,492; Jan. 31; Gaz. vol. 162; p. 1182.
Chas. Specht Noonday Cigar Co., St. Louis, Mo. "Noonday." (For Cigars.) No. 15,563; Feb. 28; Gaz. vol. 163; p. 976.
Chatfield & Woods Sack Company, The, Cincinnati, Ohio. "Nu-Bread Flour." (For Flour.) No. 16,061; Dec. 12; Gaz. vol. 173; p. 582.
Chemin, Emile, Paris, France. "Maquereaux de Dieppe Marinés." (For Mackerel.) No. 16,082; Dec. 26; Gaz. vol. 173; p. 1078.
Chemin, Emile, Paris, France. "Harengs de Dieppe Marinés." (For Herring.) No. 16,083; Dec. 26; Gaz. vol. 173; p. 1078.
Chodat Co., L., Decatur, Ill. "Havana Blend." (For Cigars.) No. 16,025; Nov. 21; Gaz. vol. 172; p. 820.
Clark, Edward M., Clarkston, Wash. "The Big White Egg." (For Eggs.) No. 16,062; Dec. 12; Gaz. vol. 173; p. 582.

Alphabetical list of registrants of labels—Continued.

Clark and Sherburne, Kansas City, Mo. "Classic Laxative Caramels." (For Laxative Caramels.) No. 15,553; Feb. 21; Gaz. vol. 163; p. 726.
Collins, McCarthy Candy Co., San Francisco, Cal. "Zee-Nut." (For Candy.) No. 15,728; May 9; Gaz. vol. 166; p. 510.
Colonial Manufacturing Company, Philadelphia, Pa. "Original Lania Flannel." (For Flannels.) No. 16,002; Oct. 31; Gaz. vol. 171; p. 1256.
Congress Candy Co., Grand Forks, N. D. "Dollar Box Chocolates." (For Candy.) No. 16,081; Dec. 26; Gaz. vol. 173; p. 1078.
Continental Condensed Milk Co., Mill Hall, Pa. "Charter Oak Brand." (For Condensed Milk.) No. 15,530; Feb. 14; Gaz. vol. 163; p. 480.
Continental Condensed Milk Co., Mill Hall, Pa. "Pilgrim Brand." (For Sterilized Unsweetened Evaporated Milk.) No. 15,531; Feb. 14; Gaz. vol. 163; p 480.
Continental Condensed Milk Co., Mill Hall, Pa. "Bunker Hill Brand." (For Condensed Milk.) No. 15,611; Mar. 28; Gaz. vol. 164; p. 973.
Continental Condensed Milk Co., Mill Hall, Pa. "1776 Brand." (For Condensed Milk.) No. 15,751; May 30; Gaz. vol. 166; p. 1280.
Continental Condensed Milk Co., Mill Hall, Pa. "Concord Brand." (For Skimmed Milk Condensed.) No. 15,994; Oct. 31; Gaz. vol. 171; p. 1256.
Continental Condensed Milk Co., Mill Hall, Pa. "Valley Forge Brand." (For Sweetened Condensed Milk.) No. 16,009; Nov. 7; Gaz. vol. 172; p 258.
Continental Condensed Milk Co., Mill Hall, Pa. "Colonial Brand." (For Skimmed Milk Condensed.) No. 16,063; Dec. 12; Gaz. vol. 173; p. 582.
Cotton, C. H. & H. L., Westbrook, Me. "Rest Shu." (For Shoes.) No. 16,053; Nov. 21; Gaz. vol. 172; p. 820.
Cramer, C. W. F., Cincinnati, Ohio. "Oil-Lax." (For Castor-Oil.) No. 15,979; Oct. 24; Gaz. vol. 171; p. 982.
Creech, D. Heber, Smithfield, N. C. "Creech's Laxagestine." (For Medicine.) No. 15,568; Feb. 28; Gaz. vol. 163; p. 976.
Croft & Allen Company, Philadelphia, Pa. "Real Cough Drops." (For Cough-Drops.) No. 15,626; Apr. 4; Gaz. vol. 165; p. 239.
Crosett, Robert, New York, N. Y. "Washington Crisps." (For Prepared Cereals.) No. 15,837; Aug. 8; Gaz. vol. 169; p. 448.
Crowley, Harry R., Philadelphia, Pa. "Arbolin." (For Tree-Spray, Insecticide, and Cattle-Wash.) No. 16,014; Nov. 7; Gaz. vol. 172; p. 258.
Crown Brewing Company, The, Cincinnati, Ohio. "Happy Days." (For Beer.) No. 15,772; June 20; Gaz. vol. 167; p. 761.
Crown Columbia Pulp & Paper Co., San Francisco, Cal. "Pure Fibre Paper Bags." (For Paper Bags.) No. 15,525; Feb. 7; Gaz. vol. 163; p. 229.
Cunningham, Chas. R., Pittsburg, Pa. "Cunningham's Automobile Cleanser and Polish." (For a Cleansing and Polishing Preparation.) No. 15,522; Feb. 7; Gaz. vol. 163; p. 229.
Curtain Supply Co., The, Newark, N. J., and Chicago, Ill. "The Rex All Metal Roller." (For Curtain-Rollers.) No. 15,526; Feb. 7; Gaz. vol. 163; p. 229.
Daas & Teen, New York, N. Y. "Silver Teen." (For Printed and Plain Fabrics.) No. 16,064; Dec. 12; Gaz. vol. 173; p. 582.
Darby Candy Company, The, Baltimore, Md. "Darby's Circus Candy." (For Candy.) Nos. 15,458–87; Jan. 24; Gaz. vol. 162; p. 997.
Darby Candy Company, The, Baltimore, Md. "Darby's Circus Candy." (For Candy.) Nos. 15,514–16; Feb. 7; Gaz. vol. 163; p. 229.
Darby Candy Company, The, Baltimore, Md. "Darby's Circus Candy." (For Candy.) Nos. 15,550–2; Feb. 21; Gaz. vol. 163; p. 726.
Davis, Wm. C., Camden, N. J. "Twin Quaker Bread." (For Bread.) No. 15,627; Apr. 4; Gaz. vol. 165; p. 239.
De Bevoise, Walter W., Brooklyn, N. Y. "Star." (For Peanut Cakes.) No. 15,813; July 11; Gaz. vol. 168; p. 523.
De Clairmont, Adolph, Toledo, Ohio. "Rubber Putty." (For Putty.) No. 15,559; Feb. 21; Gaz. vol. 163; p. 726.
De Lara Fibel, D., Philadelphia, Pa. "The Natural Process." (For Carbonated Beverages.) No. 15,606; Mar. 21; Gaz. vol. 164; p. 738.
De Zeabault, Juano L., Cleveland, Ohio. "Laughing-Dandelion." (For Medicine.) No. 15,660; Apr. 18; Gaz. vol. 165; p. 728.
Derge Bodenhausen Clo. Co., St. Joseph, Mo. "Fit-Rite The Best Union Suit." (For Underwear.) No. 15,826; July 18; Gaz. vol. 168; p. 786.
Desmond, Robert E., St. Louis, Mo. "Red Label." (For Metal-Polishing Compound.) No. 16,021; Nov. 14; Gaz. vol. 172; p. 547.
Dilling & Co., Indianapolis, Ind. "Dilling's Milk Chocolate." (For Milk Chocolate.) No. 15,455; Jan. 17; Gaz. vol. 162; p. 781.
Diskette Baseball Company, New York, N. Y. "The Diskette Base Ball Game." (For a Base-Ball Game.) No. 15,715; May 2; Gaz. vol. 166; p. 249.
Douglas Candy Co., St. Joseph, Mo. "Douglas' Fruit-Nut Chocolates." (For Chocolate Candy.) No. 15,966; Oct. 10; Gaz. vol. 171; p. 480.
Douglass Co., W. J., New Castle, Pa. "American Hoof Packing." (For a Remedy for Foot Diseases of Horses.) No. 15,732; May 9; Gaz. vol. 166; p. 510.
E. A. Kline & Co., Cleveland, Ohio. "E. A. Kline & Co's Lettergram." (For Cigars.) No. 15,816; July 18; Gaz. vol. 168; p. 786.
E. L. Hasler Co., Chicago, Ill. "Cape Cod Cranberries." (For Cranberries.) No. 15,996; Oct. 31; Gaz. vol. 171; p. 1256.
Eagle Lubricant Manufacturing Company, The, Canton, Ohio. "Eagle Watch and Clock Lubricant." (For Watch and Clock Lubricant.) No. 16,048; Nov. 21; Gaz. vol. 172; p. 820.
Eastgate Bros., Larimore, N. D. "Whole Wheat Flour Willobank Farm." (For Whole-Wheat Flour.) No. 15,658; Apr. 18; Gaz. vol. 165; p. 728.
Easton Packing Co., Easton, Md. "Easton Special Brand Tomatoes." (For Tomatoes.) No. 15,615; Mar. 28; Gaz. vol. 164; p. 973.
Easton Packing Co., Easton, Md. "Easton Special Brand Maine Style Sugar Corn." (For Sugar-Corn.) No. 15,616; Mar. 28; Gaz. vol. 164; p. 973.
Easton Packing Co., Easton, Md. "Queen Anne Brand Maine Style Sugar Corn." (For Sugar-Corn.) No. 15,642; Apr. 11; Gaz. vol. 165; p. 472.
Egelhof, Friedrich L., Dubuque, Iowa. "Acme Operating Tray." (For Operating-Trays for Physicians and Embalmers.) No. 15,866; Aug. 29; Gaz. vol. 169; p. 1183.
Eppstein & Son, L., Fort Worth, Tex. "Bourbon de Luxe." (For Whisky.) No. 16,027; Nov. 21; Gaz. vol. 172; p. 820.
Estate of Henry Weinhard Dec'd., Portland, Oreg. "Malt Tea." (For a Malt-Tea Beverage.) No. 15,741; May 23; Gaz. vol. 166; p. 984.
Estes, L. W., Washington, D. C. "Cornout." (For a Remedy for Corns.) No. 16,044; Nov. 21; Gaz. vol. 172; p. 820.
Excelsior Paint Co., Louisville, Ky. "Excelsior Paints." (For Paints.) No. 16,049; Nov. 21; Gaz. vol. 172; p. 820.
Excelsior Whip Co., Osborn, Ohio. "Hog Hide Whip." (For Buggy-Whips.) No. 15,540; Feb. 14; Gaz. vol. 163; p. 480.
Fairy Manufacturing Co., Los Angeles, Cal. "Fairy Polish." (For Polish for Pianos, Furniture, and Automobiles.) No. 16,084; Dec. 26; Gaz. vol. 173; p. 1078.
Faust Paint Specialty Co., St. Louis, Mo. "Faustone Wall Paint." (For Paint.) No. 15,695; Apr. 25; Gaz. vol. 165; p. 970.
Ferris, William S., and A. B. Leith, Chicago, Ill. "Go-Cart." (For Go-Carts.) No. 15,527; Feb. 7; Gaz. vol. 163; p. 229.
Ferris, William S., and A. B. Leith, Chicago, Ill. "Go-Cart." (For Go-Carts.) No. 15,716; May 2; Gaz. vol. 166; p. 249.
Fettman, Edward A., Richmond, Ind. "Richmond Rose." (For Cigars.) No. 15,879; Sept. 12; Gaz. vol. 170; p. 480.
Fitzpatrick Bros. Inc., Chicago, Ill. "Ourown Cleansers." (For Cleansing Compounds.) No. 15,778; June 20; Gaz. vol. 167; p. 761.
Fitzpatrick Bros., Chicago, Ill. "Automatic Soap." (For Soap.) No. 15,845; Aug 8; Gaz. vol. 169; p. 448.
Fleischer, Tryne S., New York, N. Y. "Fleischer's Dependable Rings." (For Rings.) No. 15,747; May 23; Gaz. vol. 166; p. 984.
Flower City Specialty Co., Rochester, N. Y. "Flower City Bank." (For Toy Banks.) No. 15,877; Sept. 5; Gaz. vol. 170; p. 242.
Forbush, Horace, Boston, Mass. "The Write-O-Graph." (For a Machine and Instructions for Teaching Penmanship.) No. 15,633; Apr. 4; Gaz. vol. 165; p. 239.
Forest Park Brewing Co., St. Louis, Mo. "Old Time." (For Lager-Beer.) No. 15,773; June 20; Gaz. vol. 167; p. 761.
Fortriede, Christ, Cincinnati, Ohio. "Ellore." (For Cigars.) No. 15,810; July 11; Gaz. vol. 168; p. 523.
Frankland Food Co., The, Los Angeles, Cal. "Laxomeal." (For Food Preparations.) No. 15,836; Aug. 8; Gaz. vol. 169; p. 448.
Franklin Baker Company, The, Philadelphia, Pa. "Baker's Premium Shred Cocoanut." (For Shredded Cocoanut.) No. 15,997; Oct. 31; Gaz. vol. 171; p. 1256.
Franklin Coffee Co., The, Columbus, Ohio. "Okay." (For Coffee.) No. 15,864; Aug. 29; Gaz. vol. 169; p. 1183.
Franklin Manufacturing Co., Baltimore, Md. "Money Worth Fabrics." (For Cotton-Cloth Piece Goods.) No. 15,448; Jan. 3; Gaz. vol. 162; p. 267.
Franklin Manufacturing Co., Baltimore, Md "La Vogue Cloth." (For Cotton-Cloth Piece Goods.) No. 15,629; Apr. 4; Gaz. vol. 165; p. 239.
Franklin Manufacturing Co., Baltimore, Md. "Jackson Mills Ginghams." (For Ginghams.) No. 15,946; Oct. 3; Gaz. vol. 171; p. 212.
Fredrick, Wm., Monett, Mo. "Wm. Fredrick's Commercial Club." (For Cigars.) No. 15,609; Mar. 28; Gaz. vol. 164; p. 973.

Alphabetical list of registrants of labels—Continued.

French, Willis G., Waterbury, Conn. "Brass City Blitzen Liquid Metal Polish." (For Metal-Polish.) No. 16,047; Nov. 21; Gaz. vol. 172; p. 820.
Friar, John H., Milwaukee, Wis. "Smilax." (For Paper Bags.) No. 15,543; Feb. 14; Gaz. vol. 163; p. 480.
Friar, John H., Milwaukee, Wis. "Yellow Aster." (For Paper Bags.) No. 15,699; Apr. 25; Gaz. vol. 165; p. 970.
Friar, John H., Milwaukee, Wis. "White Rose." (For Paper Bags.) No. 15,700; Apr. 25; Gaz. vol. 165; p. 970.
Frieszel, Sam, and L. Kalisman, New York, N. Y. "Liberty Pure Rye Bread." (For Bread.) No. 16,085; Dec. 26; Gaz. vol. 173; p. 1078.
Genuine Washington Slate Co., Slatington, Pa. "Genuine Washington Big Bed Roofing Slate." (For Roofing-Slates.) No. 15,622; Mar. 28; Gaz. vol. 164; p. 973.
George Frost Company, Boston, Mass. "Velvet Grip Boston Pad Garter." (For Hose-Supporters.) No. 15,452; Jan. 10; Gaz. vol. 162; p. 535.
Gerhard Mennen Chemical Company, Newark, N. J. "Mennen's Cream Dentifrice." (For Cream Dentifrice.) Nos. 15,883–4; Sept. 12; Gaz. vol. 170; p. 480.
Gerhard Mennen Chemical Company, Newark, N. J. "Mennen's Shaving Cream." (For Shaving-Cream.) Nos. 15,885–6; Sept. 12; Gaz. vol. 170; p. 480.
Gertenrich, Louis W., Chicago, Ill. "National Sweets." (For Candy.) No. 15,534; Feb. 14; Gaz. vol. 163; p. 480.
Giachini Candy Company, Chicago, Ill. "Just One More." (For Candy.) No. 15,927; Sept. 26; Gaz. vol. 170; p. 926.
Gibson, R. E., Laurinburg, N. C. "Elite Brand." (For Cantaloups.) No. 15,792; June 27; Gaz. vol. 167; p. 980.
Gillen & Boney, Lincoln, Nebr. "Ko-We-Ba Chocolates." (For Chocolate Candy.) No. 16,056; Nov. 28; Gaz. vol. 172; p. 1087.
Gillen & Boney, Inc., Lincoln, Nebr. "School Day Chocolates." (For Chocolate Candies.) No. 16,065; Dec. 12; Gaz. vol. 173; p. 582.
Globe Canning Company, The, North Lubec and Eastport, Me. "Irma." (For Sardines.) No. 15,940; Oct. 3; Gaz. vol. 171; p. 212.
Globe Chemical Works, San Francisco, Cal. "Fumicide." (For Compositions for Destroying or Nullifying Fumes Generated by Explosives.) No. 15,942; Oct. 3; Gaz. vol. 171; p. 212.
Globe Ink & Mucilage Co., The, New York, N. Y. "The Globe Ink & Mucilage Co." (For Mucilage.) No. 15,714; May 2; Gaz. vol. 166; p. 249.
Goldman, Max, Cleveland, Ohio. "Pera Meda." (For Cigars.) Nos. 15,808–9; July 11; Gaz. vol. 168; p. 523.
Grauley, H. B., Philadelphia, Pa. "Milena." (For Cigars.) No. 15,510; Feb. 7; Gaz. vol. 163; p. 229.
Grauley, Hy. B., Philadelphia, Pa. "Orange Flower." (For Cigars.) No. 15,509; Feb. 7; Gaz. vol. 163; p. 229.
Greenup Milling Co., Greenup, Ky. "Lifebuoy." (For Wheat-Flour.) No. 15,604; Mar. 21; Gaz. vol. 164; p. 738.
Griffith, Charles W., New York, N. Y. "Hazelox." (For Oxygenated Witch-Hazel.) No. 15,536; Feb. 14; Gaz. vol. 163; p. 480.
Guth, Charles G., Baltimore, Md. "Prudential." (For Chocolates and Bonbons.) No. 15,583; Mar. 7; Gaz. vol. 164; p. 248.
Guth, Charles G., Baltimore, Md. "Sunday-Eve." (For Chocolates and Bonbons.) No. 15,612; Mar. 28; Gaz. vol. 164; p. 973.
Gutman & Son, M., New York, N. Y. "True Blue." (For Confections.) No. 15,820; July 18; Gaz. vol. 168; p. 786.
H. C. Roberts Electric Supply Co., Philadelphia, Pa. "Dry Battery." (For Dry Batteries.) No. 16,018; Nov. 7; Gaz. vol. 172; p. 258.
Haas, Benjamin, New York, N. Y. "Antique." (For Liquid Fluid for Polishing Wood.) No. 15,557; Feb. 21; Gaz. vol. 163; p. 726.
Hackler, Frank, Jacksonville, Ill. "5¢ Little Indian 5¢." (For Cigars.) No. 15,960; Oct. 10; Gaz. vol. 171; p. 480.
Hadesman, Jacob. (See Hadesman, Joseph P. and J.)
Hadesman, Joseph P. and J., Chicago, Ill. "The American Family Laundry Bluing." (For Laundry Bluing.) No. 15,984; Oct. 24; Gaz. vol. 171; p. 982.
Hamilton, A. J., Glenavon, Cal. "Sweetest Yet." (For Oranges.) No. 15,857; Aug. 22; Gaz. vol. 169; p. 942.
Hammond Brewing Company, West Hammond, Ill. "Muhlhauser Export Beer." (For Muhlhauser-Style Export Beer.) No. 16,035; Nov. 21; Gaz. vol. 172; p. 820.
Hannah, Percy J., San Francisco, Cal. "Poinsetta." (For Shampoo-Powder.) No. 16,086; Dec. 26; Gaz. vol. 173; p. 1078.
Hard, E. C., Buffalo, N. Y. "Killarney Brand." (For Flour.) No. 15,872; Sept. 5; Gaz. vol. 170; p. 242.
Hart Co., T. H., Philadelphia, Pa. "Five of Hart's." (For Cigars.) No. 15,832; Aug. 8; Gaz. vol. 169; p. 448.
Hart Co., T. H., Philadelphia Pa. "Heartsease." (For Cigars.) No. 16,087; Dec. 26; Gaz. vol. 173; p. 1078.
Hax, John P., Baltimore, Md. "Crescent Hi' Ball." (For Ginger-Ale.) No. 16,088; Dec. 26; Gaz. vol. 173; p. 1078.
Hax, John P., Baltimore, Md. "Crescent Hi' Ball." (For ated." (For Carbonated Water.) No. 16,089; Dec. 26; Gaz. vol. 173; p. 1078.
Heck, Adolph M., Dayton, Ohio. "The Mineral Wax Carbon." (For Carbon-Paper.) No. 16,052; Nov. 21; Gaz. vol. 172; p. 820.
Heekin Spice Company, The, Cincinnati, Ohio. "Heraldic Tea." (For Tea.) No. 16,090; Dec. 26; Gaz. vol. 173; p. 1078.
Heit-Miller-Lau Co., Fort Wayne, Ind. "He-Mi-La Chocolates True Fruit Centers." (For Chocolates.) No. 16,055; Nov. 28; Gaz. vol. 172; p. 1087.
Heller & Long, New York, N. Y. "The Paris Handkerchief." (For Handkerchiefs.) No. 15,545; Feb. 14; Gaz. vol. 163; p. 480.
Heller & Long, New York, N. Y. "The Manhattan Handkerchief." (For Handkerchiefs.) No. 15,701; Apr. 25; Gaz. vol. 165; p. 970.
Henry B. Gilpin Company, The, Baltimore, Md. "Dentalette." (For Tooth-Powder.) No. 15,843; Aug. 8; Gaz. vol. 169; p. 448.
Henry W. Peabody & Co., New York, N. Y. "Havakan." (For Canned Salmon.) No. 15,963; Oct. 10; Gaz. vol. 171; p. 480.
Henry W. Peabody & Co., New York, N. Y. "Prize Medal." (For Salmon.) No. 15,964; Oct. 10; Gaz. vol. 171; p. 480.
Henschel & Co., A. C., Chicago, Ill. "Wa-Pa-To." (For Cigars.) No. 15,454; Jan. 17; Gaz. vol. 162; p. 781.
Henschel & Co., A. C., Chicago, Ill. "Little Lord." (For Cigars.) No. 16,070; Dec. 19; Gaz. vol. 173; p. 861.
Henschel & Co., A. C., Chicago, Ill. "Pink Star." (For Cigars.) No. 15,498; Feb. 7; Gaz. vol. 163; p. 229.
Henschel & Co., A. C., Chicago, Ill. "Santora." (For Cigars.) No. 15,561; Feb. 28; Gaz. vol. 163; p. 976.
Henschel & Co., A. C., Chicago, Ill. "Bouquet Grande." (For Cigars.) No. 15,733; May 16; Gaz. vol. 166; p. 750.
Henschel & Company, A. C., Chicago, Ill. "Blackmore." (For Cigars.) No. 15,680; Apr. 25; Gaz. vol. 165; p. 970.
Henschel & Company, A. C., Chicago, Ill. "Fabrica De Tabacos." (For Cigars.) No. 15,681; Apr. 25; Gaz. vol. 165; p. 970.
Henschel & Company, A. C., Chicago, Ill. "Villa Corona." (For Cigars.) No. 15,766; June 13; Gaz. vol. 167; p. 512.
Henschel & Company, A. C., Chicago, Ill. "Colonial Bond." (For Cigars.) No. 15,767; June 13; Gaz. vol. 167; p. 512.
Henschel & Company, A. C., Chicago, Ill. "Carlos Zaldo." (For Cigars.) No. 15,768; June 13; Gaz. vol. 167; p. 512.
Henschel & Company, A. C., Chicago, Ill. "Star Quality." (For Cigars.) No. 15,989; Oct. 31; Gaz. vol. 171; p. 1256.
Henschel & Company, A. C., Chicago, Ill. "Five Spot." (For Cigars.) No. 15,990; Oct. 31; Gaz. vol. 171; p. 1256.
Henschel & Company, A. C., Chicago, Ill. "La Mureda." (For Cigars.) No. 16,005; Nov. 7; Gaz. vol. 172; p. 258.
Hercer, Anton, Spring Valley, Ill. "Heavene." (For Heaves in Horses.) No. 15,646; Apr. 11; Gaz. vol. 165; p. 472.
Hickman, C. H., Highspire, Pa. "Dr. Hickman's Motor Liniment." (For Liniment.) No. 15,446; Jan. 3; Gaz. vol. 162; p. 267.
Hind & Harrison Plush Co., The, Clark Mills and New York, N. Y. "Kaucasian Lamb Fabric." (For Plush of a Peculiar Finish.) No. 15,749; May 23; Gaz. vol. 166; p. 984.
Holeproof Hosiery Co., Milwaukee, Wis. "Delf Hose." (For Hosiery.) No. 15,867; Aug. 29; Gaz. vol. 169; p. 1183.
Holipeter, Edward E., Detroit, Mich. "White Star." (For Cigars.) No. 15,760; June 6; Gaz. vol. 167; p. 239.
Honigsberg, Jacob, New York, N. Y. "Celery Tonic." (For Celery Tonic.) No. 15,854; Aug. 22; Gaz. vol. 169; p. 942.
Hopkins, Albert H., Clinton, Iowa. "Carbon-Nit." (For Carbon-Remover.) No. 16,017; Nov. 7; Gaz. vol. 172; p. 258.
Horlick, William, Jr., Racine, Wis. "Black and White." (For a Condiment.) No. 15,742; May 23; Gaz. vol. 166; p. 984.
Huffman, Hayes, St. Louis, Mo. "Huffman's Dandruff Remedy." (For Hair-Tonic.) No. 15,730; May 9; Gaz. vol. 166; p. 510.
Hughes, H. J., Reedsburg, Wis. "U-Need-It." (For a Lotion for Sweating Feet.) No. 15,617; Mar. 28; Gaz. vol. 164; p. 973.
Huyler's, New York, N. Y. "Filbert Milk Nut Chocolate." (For Nut-Chocolate Confections.) No. 15,493; Jan. 31; Gaz. vol. 162; p. 1182.
Huyler's, New York, N. Y. "Sweet Heart Gum." (For Chewing-Gum.) Nos. 15,586–8; Mar. 7; Gaz. vol. 164; p. 248.
Import Packing Co., New York, N. Y. "Importo." (For Crushed Pineapple.) No. 15,791; June 27; Gaz. vol. 167; p. 980.

Alphabetical list of registrants of labels—Continued.

India Tea Company, Chicago, Ill. "Indiola Baking Powder." (For Baking-Powder.) No. 15,518; Feb. 7; Gaz. vol. 163; p. 229.
Irish Cleanser Company, Los Angeles, Cal. "Kildair Irish Cleanser." (For a Washing or Cleansing Powder or Compound.) No. 15,771; June 13; Gaz. vol. 167; p. 512.
J. F. Bradley Company, San Francisco, Cal. "Morning Glory Soap does it." (For Soap.) No. 16,022; Nov. 14; Gaz. vol. 172; p. 547.
J. & W. Jung Co., Sheboygan, Wis. "Boss Fellow." (For Children's Hosiery.) No. 15,678; Apr. 18; Gaz. vol. 165; p. 728.
Jacob & McGann, New Haven, Conn. "Old Standard Whiskey." (For Blended Whisky.) No. 16,028; Nov. 21; Gaz. vol. 172; p. 820.
Jacob Wirth & Co. Inc., Providence, R. I. "Jacob Wirth & Co. Inc. Special Bottling." (For Bottled Beer.) No. 15,582; Mar. 7; Gaz. vol. 164; p. 248.
Jackson, Eugene, Tampa, Fla. "Zephyr Powder Blower." (For Zephyr Powder-Blower.) No. 15,662; Apr. 18; Gaz. vol. 165; p. 728.
James R. Keiser, Inc., New York, N. Y. "Keiser Handkerchiefs." (For Handkerchiefs.) No. 15,930; Sept. 26; Gaz. vol. 170; p. 926.
John G. Woodward & Co. Inc., Council Bluffs, Iowa. "Woodward's Pure Sugar Stick Candy." (For Stick-Candy.) No. 15,613; Mar. 28; Gaz. vol. 164; p. 973.
John Hoberg Co., The, Green Bay, Wis. "Yellow Jessamine." (For Toilet-Paper.) No. 15,697; Apr. 25; Gaz. vol. 165; p. 970.
John Hoberg Co., The, Green Bay, Wis. "Marathon." (For Toilet-Paper.) No. 15,698; Apr. 25; Gaz. vol. 165; p. 970.
John Hoberg Co., The, Green Bay, Wis. "The World." (For Toilet-Paper.) No. 16,023; Nov. 14; Gaz. vol. 172; p. 547.
John Hoberg Co., The, Green Bay, Wis. "Pace Maker." (For Toilet-Paper.) No. 16,024; Nov. 14; Gaz. vol. 172; p. 547.
John Hoberg Co., The, Green Bay, Wis. "Sanitorio Papyrine Towails." (For Paper Towels.) No. 16,092; Dec. 26; Gaz. vol. 173; p. 1078.
John Hoberg Co., The, Green Bay, Wis. "English Violet." (For Toilet-Paper.) No. 16,093; Dec. 26; Gaz. vol. 173; p. 1078.
Johnson & Bryden, Boston, Mass. "Morning-Glory." (For Flour.) No. 15,821; July 18; Gaz. vol. 168; p. 786.
Johnson & Bryden, Boston, Mass. "Princess." (For Flour.) No. 15,822; July 18; Gaz. vol. 168; p. 786.
Johnston, W. W., San Diego, Cal. "Johnston's Yerba Santa Cough Syrup." (For Cough Remedy.) No. 15,919; Sept. 26; Gaz. vol. 170; p. 926.
Jones, Archie L., Clay, Ky. "Old Kentucky Natural Leaf." (For Leaf-Tobacco.) No. 15,623; Apr. 4; Gaz. vol. 165; p. 239.
Jones Brothers Limited, Manchester, England. "Cloister Cloth." (For Cotton Piece Goods.) No. 15,868; Aug. 29; Gaz. vol. 169; p. 1183.
Jos. Schlitz Brewing Co., Milwaukee, Wis. "Fizz." (For a Non-Intoxicating Malt Beverage.) No. 15,829; July 25; Gaz. vol. 168; p. 1031.
Joseph Krieg-Fink Company, Jersey City, N. J. "Three Feathers." (For Brandy.) No. 15,851; Aug. 22; Gaz. vol. 169; p. 942.
Joseph Krieg-Fink Company, Jersey City, N. J. "Caballero." (For Creme de Cacao.) No. 15,852; Aug. 22; Gaz. vol. 169; p. 942.
Julius Bien Company, New York, N. Y. "La Tosina." (For Cigars.) No. 15,718; May 9; Gaz. vol. 166; p. 510.
Julius Bien Company, New York, N. Y. "Filacosa." (For Cigars.) No. 15,719; May 9; Gaz. vol. 166; p. 510.
Julius Bien Company, New York, N. Y. "Rio Nuevo." (For Cigars.) No. 15,720; May 9; Gaz. vol. 166; p. 510.
Julius Bien Company, New York, N. Y. "Como Reina." (For Cigars.) No. 15,721; May 9; Gaz. vol. 166; p. 510.
Julius Bien Company, New York, N. Y. "La Borgona." (For Cigars.) No. 15,722; May 9; Gaz. vol. 166; p. 510.
Julius Bien Company, New York, N. Y. "Sir Loraine." (For Cigars.) No. 15,723; May 9; Gaz. vol. 166; p. 510.
Julius Bien Company, New York, N. Y. "Showanda." (For Cigars.) No. 15,724; May 9; Gaz. vol. 166; p. 510.
Julius Bien Company, New York, N. Y. "La Menorca." (For Cigars.) No. 15,725; May 9; Gaz. vol. 166; p. 510.
Kalisman, Laura. (See Frieszel and Kalisman.)
Kansas Milling Company, Wichita, Kans. "Lassen's Perfection." (For Wheat-Flour.) No. 15,859; Aug. 22; Gaz. vol. 169; p. 942.
Kargiotis, Chris N. (See Zaharis and Kargiotis.)
Karlen, Jacob, Rome, N. Y. "Mohawk Valley Brand." (For Limburger-Style Cheese.) No. 15,839; Aug. 8; Gaz. vol. 169; p. 448.
Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "Kellogg's Toasted Corn Flakes." (For Cereal Breakfast Foods.) No. 16,038; Nov. 21; Gaz. vol. 172; p. 820.
Kelly, E. J., Augusta, Ga. "Augusta." (For Toilet-Paper.) No. 15,738; May 16; Gaz. vol. 166; p. 750.
Kerns, E. L., Trenton, N. J. "Gunning Club Ginger Ale." (For Ginger-Ale.) No. 15,811; July 11; Gaz. vol. 168; p. 523.
Key West Cigar Factory, The, New York, N. Y. "Sunbeam." (For Cigars.) No. 15,807; July 4; Gaz. vol. 168; p. 247.
Keyer, Louis W., Dayton, Ohio. "Continental Seal." (For Cigars.) No. 16,054; Nov. 28; Gaz. vol. 172; p. 1087.
Keyes Manufacturing Company, The, Denver, Colo. "Quail Brand Cane and Maple Syrup." (For a Compound of Cane and Maple Syrup.) No. 15,489; Jan. 24; Gaz. vol. 162; p. 997.
Klein Fruit Company, The, Los Angeles, Cal. "West Coast Brand." (For Tomatoes.) No. 15,656; Apr. 18; Gaz. vol. 165; p. 728.
Klein Fruit Company, The, Los Angeles, Cal. "Aztec Brand." (For Fresh and Canned Tomatoes.) No. 15,711; May 2; Gaz. vol. 166; p. 249.
Knight, F. R., Lagrange, Ga. "Commodus." (For Cigars.) No. 15,988; Oct. 31; Gaz. vol. 171; p. 1256.
Knowlan, Rose, Green Bay, Wis. "Nation's Pride, Carnation Tissue." (For Tissue-Paper.) No. 15,696; Apr. 25; Gaz. vol. 165; p. 970.
Kunz, Bertha R., Newark, N. J. "B. R. K. Hair Tonic." (For Hair-Tonic.) No. 15,537; Feb. 14; Gaz. vol. 163; p. 480.
Layton, Mayme M., Minneapolis, Minn. "Demarr Hair Tonic." (For Hair-Tonic.) No. 16,043; Nov. 21; Gaz. vol. 172; p. 820.
Lehmann-Higginson Grocer Co., Wichita, Kans. "Always Good." (For Canned Hominy.) No. 15,795; June 27; Gaz. vol. 167; p. 980.
Lehmann-Higginson Grocer Co., Wichita, Kans. "Always Good." (For Canned Kraut.) No. 15,796; June 27; Gaz. vol. 167; p. 980.
Lehmann-Higginson Grocer Co., Wichita, Kans. "Always Good." (For Canned Tomatoes.) No. 15,797; June 27; Gaz. vol. 167; p. 980.
Lehmann-Higginson Grocer Co., Wichita, Kans. "Always Good." (For Canned Pumpkin.) No. 15,798; June 27; Gaz. vol. 167; p. 980.
Lehmann-Higginson Grocer Co., Wichita, Kans. "Always Good." (For Canned Peas.) No. 15,799; June 27; Gaz. vol. 167; p. 980.
Lehmann-Higginson Grocer Co., Wichita, Kans. "Always Good." (For Canned Corn.) No. 15,800; June 27; Gaz. vol. 167; p. 980.
Lehmann-Higginson Grocer Co., Wichita, Kans. "Always Good." (For Canned Baked Beans.) No. 15,801; June 27; Gaz. vol. 167; p. 980.
Lehmann-Higginson Grocer Co., Wichita, Kans. "Always Good." (For Canned Kidney-Beans.) No. 15,802; June 27; Gaz. vol. 167; p. 980.
Lehmann-Higginson Grocer Co., Wichita, Kans. "Always Good." (For Canned Peaches.) No. 15,870; Sept. 5; Gaz. vol. 170; p. 242.
Lehmann-Higginson Grocer Co., Wichita, Kans. "Always Good." (For Canned Pineapples.) No. 15,871; Sept. 5; Gaz. vol. 170; p. 242.
Leib, Wilbur J., Camden, N. J. "Leib's German Dyspepsia Tonic." (For Tonic.) No. 15,590; Mar. 7; Gaz. vol. 164; p. 248.
Leith, Alexander B. (See Ferris and Leith.)
Lembeck & Betz Eagle Brewing Co., Jersey City, N. J. "American Club Beer." (For Beer.) No. 15,918; Sept. 26; Gaz. vol. 170; p. 926.
Lesser, Maurice, New York, N. Y. "Shedreign." (For Rain-Coats.) No. 15,827; July 18; Gaz. vol. 168; p. 786.
Lewis Bear Drug Company, The, Inc., Montgomery, Ala. "Livoracto." (For Liver Medicine.) No. 15,971; Oct. 10; Gaz. vol. 171; p. 480.
Lightfoot, W. J., Memphis, Tenn. "Doll Face Lotion." (For Lotion.) No. 15,887; Sept. 12; Gaz. vol. 170; p. 480.
Lilac Company, The, Chicago, Ill. "Lilac Hygienic Washing Liquid." (For Washing Liquid.) No. 15,661; Apr. 18; Gaz. vol. 165; p. 728.
Lipton, Thomas J., New York, N. Y., and Chicago, Ill. "Lipton's Tea." (For Tea.) No. 16,094; Dec. 26; Gaz. vol. 173; p. 1078.
Liquid Carbonic Company, The, Chicago, Ill. "Multiplex Extracts." (For Flavoring Extracts.) No. 15,690; Apr. 25; Gaz. vol. 165; p. 970.
Little Falls Manufacturing Company, Little Falls, N. Y. "Li Falco." (For Ladies' Knit Union and Two-Piece Suits.) No. 15,456; Jan. 17; Gaz. vol. 162; p. 781.
Loud, Agnes S., Philadelphia, Pa. "Cindarella." (For Shoe-Dressing.) No. 15,825; July 18; Gaz. vol. 168; p. 786.
Lustig, Adolph A., New York, N. Y. "Partonka." (For Tonic.) No. 15,873; Sept. 5; Gaz. vol. 170; p. 242.

Alphabetical list of registrants of labels—Continued.

M. M. Fenner Company, Fredonia, N. Y. "Cough-Cold Syrup." (For Cough Remedy.) No. 15,598; Mar. 14; Gaz. vol. 164; p. 505.
M. W. Dunton Co., The, Providence, R. I. "Dunton's Non Twisting Linen Finished Tape." (For Tape.) No. 15,599; Mar. 14; Gaz. vol. 164; p. 505.
Marechal Niel Co., The, Brooklyn, N. Y. "The Marechal Niel Face Lotion." (For Face-Lotion.) No. 15,592; Mar. 7; Gaz. vol. 164; p. 248.
Martin, John B., New York, N. Y. "Dubonnet." (For Cocktails.) No. 15,444; Jan. 3; Gaz. vol. 162; p. 267.
Mason, Sanborn & Ramsdell Co., Boston, Mass. "Point-Setter." (For Canned Corn.) No. 15,841; Aug. 8; Gaz. vol. 169; p. 448.
Mayper & Sons, M., New York, N. Y. "French Garters." (For Hose-Supporters.) No. 15,619; Mar. 28; Gaz. vol. 164; p. 973.
McCuen, Gustavus W., Washington, D. C. "Commercial Reply Envelope." (For Envelops.) No. 15,824; July 18; Gaz. vol. 168; p. 786.
McDonough, John J., Richmond, Va. "Pure Old Blended Piedmont Valley Mountain Rye Whiskey." (For Whisky.) No. 15,834; Aug. 8; Gaz. vol. 169; p. 448.
McIntyre, A. D., Oswego, N. Y. "Radigan Rheumatic Remedy." (For a Medicine.) No. 15,659; Apr. 18; Gaz. vol. 165; p. 728.
Messimy, Vincent de, Chicago, Ill. "Quenchy." (For Vichy Lemonade.) No. 15,818; July 18; Gaz. vol. 168; p. 786.
Meyer, Fred, Chicago, Ill. "Anti-Hedake Air Cooled Straw Hat." (For Hats.) No. 15,620; Mar. 28; Gaz. vol. 164; p. 973.
Miller Sons & Co., Jacob, Philadelphia, Pa. "Washwel." (For Shirts.) No. 15,600; Mar. 14; Gaz. vol. 164; p. 505.
Miller Sons & Co., Jacob, Philadelphia, Pa. "Wilwash." (For Shirts.) No. 15,601; Mar. 14; Gaz. vol. 164; p. 505.
Miller Sons & Co., Jacob, Philadelphia, Pa. "Kenwash." (For Shirts.) No. 15,602; Mar. 14; Gaz. vol. 164; p. 505.
Milwaukee-Waukesha Brewing Company, Milwaukee, Wis. "All-Malt Lager." (For Lager-Beer.) No. 15,970; Oct. 10; Gaz. vol. 171; p. 480.
Milwitzky, George C., East Newark, N. J. "Balm Mela." (For Toilet Preparations.) No. 15,922; Sept. 26; Gaz. vol. 170; p. 926.
Minakakis, Peter A., New York, N. Y. "The Boston." (For Candies.) No. 15,814; July 11; Gaz. vol. 168; p. 523.
Miner, William H., Chazy, N. Y. "Heart's Delight Farm Butter. (For Butter.) No. 15,709; May 2; Gaz. vol. 166; p. 249.
Miner, William H., Chazy, N. Y. "Heart's Delight Farm, One Dozen Strictly Fresh Eggs." (For Eggs.) No. 15,737; May 16; Gaz. vol. 166; p. 750.
Minneapolis Cereal Co. Inc., Minneapolis, Minn. "Cream of Rye." (For Rye-Flakes.) No. 15,790; June 27; Gaz. vol. 167; p. 980.
Mirror Printing Company, Albion, Mich. "North Pole Bread." (For Bread.) No. 15,532; Feb. 14; Gaz. vol. 163; p. 480.
Moehle Lithographic Co., The, New York, N. Y. "El Favorito De Cuba." (For Cigars.) No. 15,504; Feb. 7; Gaz. vol. 163; p. 229.
Moehle Lithographic Co., The, New York, N. Y. "Henry Wheaton." (For Cigars.) No. 15,505; Feb. 7; Gaz. vol. 163; p. 229.
Moehle Lithographic Co., The, New York, N. Y. "Santa Rosa." (For Cigars.) No. 15,506; Feb. 7; Gaz. vol. 163; p. 229.
Moehle Lithographic Co., The, New York, N. Y. "Ruth." (For Cigars.) No. 15,507; Feb. 7; Gaz. vol. 163; p. 229.
Moehle Lithographic Co., The, New York, N. Y. "Best Seller." (For Cigars.) No. 15,508; Feb. 7; Gaz. vol. 163; p. 229.
Moehle Lithographic Co., The, New York, N. Y. "Don Robino." (For Cigars.) No. 15,756; June 6; Gaz. vol. 167; p. 239.
Moehle Lithographic Co., The, New York, N. Y. "Lady Leslie." (For Cigars.) No. 15,757; June 6; Gaz. vol. 167; p. 239.
Moehle Lithographic Co., The, New York, N. Y. "Lucky John." (For Cigars.) No. 15,758; June 6; Gaz. vol. 167; p. 239.
Moehle Lithographic Co., The, New York, N. Y. "Star Play." (For Cigars.) No. 15,759; June 6; Gaz. vol. 167; p. 239.
Moehle Lithographic Company, New York, N. Y. "La Reina Imperial." (For Cigars.) No. 15,915; Sept. 26; Gaz. vol. 170; p. 926.
Moehle Lithographic Company, New York, N. Y. "Luis Montez." (For Cigars.) No. 15,916; Sept. 26; Gaz. vol. 170; p. 926.
Montag Brothers, Atlanta, Ga. "Southern Linen." (For Writing-Tablets.) No. 15,779; June 20; Gaz. vol. 167; p. 761.
Monticelli, Nazareno, Philadelphia, Pa. "Ferro-China-Monticelli ('Iron-Chincona-Bitters')." (For Medicinal Tonics.) No. 15,745; May 23; Gaz. vol. 166; p. 984.
Monumental Brewing Co., The, Baltimore, Md. "Dunkel Bräu." (For Beer.) No. 15,637; Apr. 11; Gaz. vol. 165; p. 472.
Moravian Community, The, Inc., Nazareth, Pa. "Bohemian." (For Table Sauce.) No. 15,924; Sept. 26; Gaz. vol. 170; p. 926.
Morris, Jacob, Chicago, Ill. "Base Ball Fan Button." (For Lapel-Buttons.) No. 15,571; Feb. 28; Gaz. vol. 163; p. 976.
Morso Cigar Company, Dayton, Ohio. "Morso." (For Cigars.) No. 15,782; June 27; Gaz. vol. 167; p. 980.
Mount Hope Finishing Company, Dighton, Mass. "Kolorfast." (For Cloth.) No. 15,621; Mar. 28; Gaz. vol. 164; p. 973.
Mueller, George, Salt Lake City, Utah. "Royal German Zwieback." (For Zwieback.) No. 15,858; Aug. 22; Gaz. vol. 169; p. 942.
Mueller-Keller Candy Co., St. Joseph, Mo. "Rosary Chocolates." (For Chocolates.) No. 15,564; Feb. 28; Gaz. vol. 163; p. 976.
Mueller-Keller Candy Co., St. Joseph, Mo. "Rosary Chocolates." (For Chocolates.) No. 15,567; Feb. 28; Gaz. vol. 163; p. 976.
Muffly, Louisa M., Quincy, Ill. "Headease." (For Headache-Powders.) No. 15,763; June 6; Gaz. vol. 167; p. 239.
Mülhens & Kropff, New York, N. Y. "White Rose Transparent Glycerine Soap." (For Toilet Soap.) No. 16,074; Dec. 19; Gaz. vol. 173; p. 861.
Myers, Robert H., Bellingham, Wash. "Myers' Egyptian Catarrh Remedy." (For a Catarrh Remedy.) No. 16,095; Dec. 26; Gaz. vol. 173; p. 1078.
Myrlite Company of America, The, Pownal, Vt. "Myrlite Jim-Dandy Cleaner." (For Cleaners.) No. 15,805; June 27; Gaz. vol. 167; p. 980.
Napoli, Carmine, Philadelphia, Pa. "Lazzine." (For Medicine.) No. 15,554; Feb. 21; Gaz. vol. 163; p. 726.
Napoli, Carmine, Philadelphia, Pa. "Sarine." (For Medicine.) No. 15,607; Mar. 21; Gaz. vol. 164; p. 738.
Nat. G. Herreshoff, Jr., Co., Boston, Mass. "Herreshoff Phonograph." (For Phonograph-Disks.) No. 15,943; Oct. 3; Gaz. vol. 171; p. 212.
Natapoff & Kaptowsky, Chicago, Ill. "Natapoff & Kaptowsky." (For Bread.) No. 15,640; Apr. 11; Gaz. vol. 165; p. 472.
National Food Co., Decatur and Fort Worth, Tex. "Cranes Baking Powder." (For Baking-Powder.) No. 15,882; Sept. 12; Gaz. vol. 170; p. 480.
National Novelty Company, Philadelphia, Pa. "Narro-Nek." (For Hair-Pins.) No. 15,523; Feb. 7; Gaz. vol. 163; p. 229.
Neitz, Harvey J., San Diego, Cal. "Dr. Neitz' Herb Compound." (For Medicine.) No. 15,589; Mar. 7; Gaz. vol. 164; p. 248.
New England Fish Company, Portland, Me., and Boston, Mass. "Belleanna Brand." (For Fish.) No. 15,643; Apr. 11; Gaz. vol. 165; p. 472.
New England Laboratory Company, Lynn, Mass. "Nelco Vanishing Cream." (For Cold-Cream.) No. 16,011; Nov. 7; Gaz. vol. 172; p. 258.
Nissequogue Canning Co., Inc., The, Smithtown Branch, N. Y. "The Rose Brand." (For Clam-Chowder.) No. 15,584; Mar. 7; Gaz. vol. 164; p. 248.
Nissequogue Canning Co., Inc., The, Smithtown Branch, N. Y. "The Rose Brand." (For Soft-Shell Pickled Clams.) No. 15,585; Mar. 7; Gaz. vol. 164; p. 248.
North American Mercantile Co., San Francisco, Cal. "Izumi." (For Canned Goods, Especially Canned Crab-Meat.) No. 15,692; Apr. 25; Gaz. vol. 165; p. 970.
North American Mercantile Co., San Francisco, Cal. "Domoto Plant Food." (For Plant Food.) No. 16,039; Nov. 21; Gaz. vol. 172; p. 820.
Nuelle, Eugene A., St. Louis, Mo. "Honey Wheat Bread." (For Bread.) No. 15,881; Sept. 12; Gaz. vol. 170; p. 480.
O. F. Schmid Chemical Co., Jackson, Mich. "Schmid's Dental Cream." (For Dental Cream.) Nos. 15,769–70; June 13; Gaz. vol. 167; p. 512.
Oberle & Co., Frank X., Troy, N. Y. "Collar City Cigar." (For Cigars.) No. 15,703; May 2; Gaz. vol. 166; p. 249.
Ohio Brewing Company, The, Columbus, Ohio. "Buckeye Brew." (For Bottled Beer.) No. 15,596; Mar. 14; Gaz. vol. 164; p. 505.
Ohio Confection Co., The, Cleveland, Ohio. "Gobbler." (For Cakes.) No. 15,533; Feb. 14; Gaz. vol. 163; p. 480.
Ohio Whip Co., The, Osborn, Ohio. "Mule Hide Whip." (For Buggy-Whips.) No. 15,541; Feb. 14; Gaz. vol. 163; p. 480.
Old Colony Breweries Co., Fall River, Mass. "Old Colony Club Lager." (For Beer.) No. 15,853; Aug. 22; Gaz. vol. 169; p. 942.
Old Colony Breweries Co., Fall River, Mass. "Old Colony Chief Ale." (For Ale.) No. 15,880; Sept. 12; Gaz. vol. 170; p. 480.
Pacific Fruit Product Co., San Francisco, Cal. "1915." (For Prunes.) No. 15,856; Aug. 22; Gaz. vol. 169; p. 942.
Pallister Bros., Ottumwa, Iowa. "Pallister." (For Cigars.) No. 15,704; May 2; Gaz. vol. 166; p. 249.

Alphabetical list of registrants of labels—Continued.

Palmer & Co., Sioux City, Iowa. "Palmer's Alpean Chocolates." (For Chocolates.) No. 15,707; May 2; Gaz. vol. 166; p. 249.
Parr. Joseph A., Manchester, N. H. "Parr's Menthol Compound." (For Parr's Menthol Compound.) No. 15,815; July 11; Gaz. vol. 168; p. 523.
Paulhus, Joseph A., Phenix, R. I. "An Insecticide." (For Insecticides.) No. 15,889; Sept. 12; Gaz. vol. 170; p. 480.
Peerless Elastic Paint Co., The, Denver, Colo. "Peerless Elastic Paint." (For Elastic Paint.) No. 15,928; Sept. 26; Gaz. vol. 170; p. 926.
Peerless Garter Manufacturing Co., New York, N. Y. "Napoleon." (For Men's Garters.) No. 15,546; Feb. 14; Gaz. vol. 163; p. 480.
Peerless Garter Manufacturing Co., New York, N. Y. "All America." (For Men's Garters.) No. 15,860; Aug. 22; Gaz. vol. 169; p. 942.
Peerless Garter Manufacturing Co., New York, N. Y. "Bully Good." (For Hose-Supporters.) No. 15,878; Sept. 5; Gaz. vol. 170; p. 242.
Pennant Cigar Factory, Saginaw, Mich. "Saginaw Champion." (For Cigars.) No. 15,828; July 25; Gaz. vol. 168; p. 1031.
Penryn Fruit Company, Penryn, Cal. "California Peaches." (For Fresh Peaches.) No. 15,641; Apr. 11; Gaz. vol. 165; p. 472.
Perfect Ink Company, The, Superior, Wis. "The Perfect Ink." (For Ink.) No. 15,850; Aug. 15; Gaz. vol. 169; p. 700.
Perfection Pulverizing Mills, Chicago, Ill. "Perfection." (For Fruit-Sugar.) No. 15,655; Apr. 18; Gaz. vol. 165; p. 728.
Perry, Belle A., Oshkosh, Wis. "Perry's Pen-Dra-He-La Salve." (For Salve.) No. 15,842; Aug. 8; Gaz. vol. 169; p. 448.
Persian Stuffed Date Co., Chicago, Ill. "Phoenix." (For Stuffed Dates.) No. 15,488; Jan. 24; Gaz. vol. 162; p. 997.
Pickett Plastic Plug Co., The, Whitman, Mass. "Pickett's Plastic Plug Fence Brand." (For Toothache Remedy.) No. 15,520; Feb. 7; Gaz. vol. 163; p. 229.
Pillsbury Flour Mills Company, Minneapolis, Minn. "Conqueror." (For Wheat-Flour.) No. 15,812; July 11; Gaz. vol. 168; p. 523.
Pinafour Toy Mfg. Co., The, Canton, Ohio. "Baby Pump." (For Toy Pump.) No. 16,050; Nov. 21; Gaz. vol. 172; p. 820.
Pioneer Fruit Co., The, Sacramento, Cal. "Pioneer Special Brand." (For Oranges.) No. 15,565; Feb. 28; Gaz. vol. 163; p. 976.
Pioneer Fruit Co., The, Sacramento, Cal. "Pioneer Brand." (For Oranges.) No. 15,566; Feb. 28; Gaz. vol. 163; p. 976.
Pioneer Fruit Co., The, Sacramento, Cal. "Hetch-Hetchy." (For Oranges.) No. 15,597; Mar. 14; Gaz. vol. 164; p. 505.
Polisheen Manufacturing Co., La Fayette, Ind. "Polisheen." (For Furniture-Polish.) No. 15,876; Sept. 5; Gaz. vol. 170; p. 242.
Portland Cheese Co., The, Portland, Oreg. "Badger State Brand." (For Cheese.) No. 15,761; June 6; Gaz. vol. 167; p. 239.
Portland Cheese Co., Portland, Oreg. "Badger State Brand." (For Cheese.) No. 15,793; June 27; Gaz. vol. 167; p. 980.
Portland Dental Mfg. Co., Portland, Me. "Woodlac." (For Liquid Furniture-Polish.) No. 15,556; Feb. 21; Gaz. vol. 163; p. 726.
Protobrewing Company, Philadelphia, Pa. "Protos." (For Dark Lager-Beer.) No. 15,580; Mar. 7; Gaz. vol. 164; p. 248.
Protobrewing Company, Philadelphia, Pa. "Protos." (For Light Lager-Beer.) No. 15,581; Mar. 7; Gaz. vol. 164; p. 248.
Pugh, Henry, Anthony, R. I. "Pugh's Cough Compound." (For Cough Medicine.) No. 15,644; Apr. 11; Gaz. vol. 165; p. 472.
Pugh Pipe Company, Bowling Green, Mo. "Pugh's Peerless Pipes." (For Pipes.) No. 15,781; June 20; Gaz. vol. 167; p. 761.
Puritan Candy Co., Milwaukee, Wis. "Alden Chocolates." (For Chocolate Candy.) No. 16,057; Nov. 28; Gaz. vol. 172; p. 1087.
Pyrene Manufacturing Co., New York, N. Y. "Pyrene." (For Syringes Containing Fire Extinguishing Compound.) No. 16,016; Nov. 7; Gaz. vol. 172; p. 258.
Quinn, Charles J., Henderson, Ky. "Premier Pure." (For Bottled Whisky.) No. 16,008; Nov. 7; Gaz. vol. 172; p. 258.
Ralston Purina Company, St. Louis, Mo. "Ralston Wheat Food." (For Cereal Food.) No. 15,961; Oct. 10; Gaz. vol. 171; p. 480.
Rebhan, Harry, New York, N. Y. "Nurito." (For a Chemical Prescription.) No. 15,645; Apr. 11; Gaz. vol. 165; p. 472.
Reno Brewing Co. (See Standish, Wm., assignor.)
Rhoads, Oscar S., Fort Wayne, Ind. "I-de-lite." (For Cleansers and Polishes.) No. 15,538; Feb. 14; Gaz. vol. 163; p. 480.
Richardson Shoe Company, Menominee, Mich. "Yankee Doodle Junior." (For Boys' and Children's Shoes.) No. 15,739; May 16; Gaz. vol. 166; p. 750.
Richey & Gilbert Company, Toppenish, Wash. "Yakima Apples." (For Apples.) No. 15,614; Mar. 28; Gaz. vol. 164; p. 973.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Boy Scout." (For Hosiery.) No. 15,891; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Hiawatha." (For Hosiery.) No. 15,892; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Topnotcher." (For Hosiery.) No. 15,893; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Minnehaha." (For Hosiery.) No. 15,894; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Tallahassee." (For Hosiery.) No. 15,895; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Red Wing." (For Hosiery.) No. 15,896; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "California." (For Hosiery.) No. 15,897; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Minnesota." (For Hosiery.) No. 15,898; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Cherokee." (For Hosiery.) No. 15,899; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Hardwear." (For Hosiery.) No. 15,900; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Lady Broadway." (For Hosiery.) No. 15,901; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Tomahawk." (For Hosiery.) No. 15,902; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Colorado." (For Hosiery.) No. 15,903; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Bad Boy." (For Hosiery.) No. 15,904; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Hop-Scotch." (For Hosiery.) No. 15,905; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Priscilla." (For Hosiery.) No. 15,906; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Miss Manhattan." (For Hosiery.) No. 15,907; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Sewanee." (For Hosiery.) No. 15,908; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Pocahontas." (For Hosiery.) No. 15,909; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Chickamauga." (For Hosiery.) No. 15,910; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Kissimmee." (For Hosiery.) No. 15,911; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Wizard." (For Hosiery.) No. 15,912; Sept. 12; Gaz. vol. 170; p. 480.
Richmond Hosiery Mills, Rossville, Ga., and Chattanooga, Tenn. "Rockproof." (For Hosiery.) No. 15,913; Sept. 12; Gaz. vol. 170; p. 480.
Rile Bros., Columbus, Ohio. "Rile Bros. Private Stock." (For Beer.) No. 15,625; Apr. 4; Gaz. vol. 165; p. 239.
Riley & Co., Wm. B., Philadelphia, Pa. "Fit-Rite." (For Horse-Blankets.) No. 15,985; Oct. 24; Gaz. vol. 171; p. 982.
Rinaldi & Grossi, New York, N. Y. "Liquore Streghina." (For Cordials.) No. 15,863; Aug. 29; Gaz. vol. 169; p. 1183.
Ringrose, Edward W., Baltimore, Md. "Rose Corn Salve." (For Corn-Salve.) No. 15,844; Aug. 8; Gaz. vol. 169; p. 448.
Robert, Napoleon F., Holyoke, Mass. "Robert's Hair Tonic." (For Hair-Tonic.) No. 15,923; Sept. 26; Gaz. vol. 170; p. 926.
Rode & Brand, New York, N. Y. "Childs'." (For Cocoa.) No. 15,688; Apr. 25; Gaz. vol. 165; p. 970.
Rode & Brand, New York, N. Y. "Breakfast Cocoa." (For Cocoa.) No. 15,705; May 2; Gaz. vol. 166; p. 249.
Rode & Brand, New York, N. Y. "Breakfast Cocoa." (For Cocoa.) No. 15,736; May 16; Gaz. vol. 166; p. 750.
Roth, Sam, New York, N. Y. "Roth & Roth's." (For Cigars.) No. 15,783; June 27; Gaz. vol. 167; p. 980.
Rourke Mfg. Co., New York, N. Y. "Cleanzene." (For Scouring and Cleaning Powder.) No. 16,046; Nov. 21; Gaz. vol. 172; p. 820.

Alphabetical list of registrants of labels—Continued.

Royal Candy Co., Milwaukee, Wis. "Royal." (For Medicated Cough-Drops.) No. 16,001; Oct. 31; Gaz. vol. 171; p. 1256.
S. Ojserkis Co., Atlantic City, N. J. "Schlitz Atlas Cigar." (For Cigars.) No. 15,917; Sept. 26; Gaz. vol. 170; p. 926.
Saadi, John, Washington, D. C. "Mascot Fountain Pen." (For Fountain-Pens.) No. 15,558; Feb. 21; Gaz. vol. 163; p. 726.
Salt Lake City Brewing Co., The, Salt Lake City, Utah. "Old German Lager." (For Beer.) No. 16,006; Nov. 7; Gaz. vol. 172; p. 258.
Salt Lake City Brewing Co., The, Salt Lake City, Utah. "Maxim's." (For Beer.) No. 16,007; Nov. 7; Gaz. vol. 172; p. 258.
San Telmo Cigar Mfg. Co., Detroit, Mich. "Velvo." (For Cigars.) No. 15,848; Aug. 15; Gaz. vol. 169; p. 700.
Sanitary Cigar Co., The, Philadelphia, Pa. "The Sanitary Cigar." (For Cigars.) No. 15,511; Feb. 7; Gaz. vol. 163; p. 229.
Saticoy Walnut Growers Association, Saticoy, Cal. "Saticoy Walnuts." (For English Walnuts.) No. 16,066; Dec. 12; Gaz. vol. 173; p. 582.
Sawkins, Ethel D., Baltimore, Md. "Dr. Blair's Blush of Roses." (For a Lotion.) No. 15,713; May 2; Gaz. vol. 166; p. 249.
Schenck, James E., Cardiff, Md. "Schenck's Conditional Horse Powder." (For Condition-Powders for Horses.) No. 16,096; Dec. 26; Gaz. vol. 173; p. 1078.
Scheuerl, Christian, New York, N. Y. "Starr's." (For a Remedy for Corns, Bunions, Calli, and Warts.) No. 15,982; Oct. 24; Gaz. vol. 171; p. 982.
Schloss & Co., Joseph W., New York, N. Y. "Eve." (For Collar-Supporters.) No. 15,544; Feb. 14; Gaz. vol. 163; p. 480.
Schmidt & Co., New York, N. Y. "John Purdue." (For Cigars.) No. 15,449; Jan. 10; Gaz. vol. 162; p. 535.
Schmidt & Co., New York, N. Y. "Amity." (For Cigars.) No. 15,575; Mar. 7; Gaz. vol. 164; p. 248.
Schmidt & Co., New York, N. Y. "Manifacto." (For Cigars.) No. 15,576; Mar. 7; Gaz. vol. 164; p. 248.
Schmidt & Co., New York, N. Y. "Damasco." (For Cigars.) No. 15,577; Mar. 7; Gaz. vol. 164; p. 248.
Schmidt & Co., New York, N. Y. "Melody Belle." (For Cigars.) No. 15,578; Mar. 7; Gaz. vol. 164; p. 248.
Schmidt & Co., New York, N. Y. "Briar Crest." (For Cigars.) No. 15,579; Mar. 7; Gaz. vol. 164; p. 248.
Schmidt & Co., New York, N. Y. "Lady Speed." (For Cigars.) No. 15,603; Mar. 21; Gaz. vol. 164; p. 738.
Schmidt & Co., New York, N. Y. "Daisy Field." (For Cigars.) No. 15,972; Oct. 17; Gaz. vol. 171; p. 742.
Schmidt & Co., New York, N. Y. "Merry Christmas Happy New Year." (For Cigars.) No. 16,075; Dec. 19; Gaz. vol. 173; p. 861.
Schmidt & Co., New York, N. Y. "Wild Rose." (For Cigars.) No. 16,097; Dec. 26; Gaz. vol. 173; p. 1078.
Schmidt & Co., New York, N. Y. "The Best Cigar." (For Cigars.) No. 16,098; Dec. 26; Gaz. vol. 173; p. 1078.
Schmidt & Co., New York, N. Y. "Tropical de Cuba." (For Cigars.) No. 16,099; Dec. 26; Gaz. vol. 173; p. 1078.
Schmidt & Co., New York, N. Y. "The Favorite Cigar." (For Cigars.) No. 16,100; Dec. 26; Gaz. vol. 173; p. 1078.
Schmidt & Co., New York, N. Y. "Bella Lucia." (For Cigars.) No. 16,101; Dec. 26; Gaz. vol. 173; p. 1078.
Schmidt & Co., New York, N. Y. "The Select Cigar." (For Cigars.) No. 16,102; Dec. 26; Gaz. vol. 173; p. 1078.
Schoneberger & Noble, New York, N. Y. "Dr. Brown's Ginger Tonic." (For a Non-Alcoholic Beverage.) No. 15,624; Apr. 4; Gaz. vol. 165; p. 239.
Scott Paper Company, Philadelphia, Pa. "Scot Tissue." (For Paper Towels.) No. 15,570; Feb. 28; Gaz. vol. 163; p. 976.
Scott Paper Company, Philadelphia, Pa. "Waldorf Towels." (For Paper Towels.) No. 15,630; Apr. 4; Gaz. vol. 165; p. 239.
Scott Paper Company, Philadelphia, Pa. "Sani-Towls." (For Paper Towels.) No. 15,631; Apr. 4; Gaz. vol. 165; p. 239.
Scott Paper Company, Philadelphia, Pa. "Scot Tissue Towels." (For Paper Towels.) No. 15,672; Apr. 18; Gaz. vol. 165; p. 728.
Scott Paper Company, Philadelphia, Pa. "Sno-Tissue." (For Toilet-Paper.) No. 15,754; May 30; Gaz. vol. 166; p. 1280.
Scott Paper Company, Philadelphia, Pa. "Sno-Tissue." (For Toilet-Paper.) No. 16,051; Nov. 21; Gaz. vol. 172; p. 820.
Sea Island Thread Co., New York, N. Y. "Le Roy." (For Machine-Twist.) No. 15,547; Feb. 14; Gaz. vol. 163; p. 480.
Sea Island Thread Co., New York, N. Y. "Over-All." (For Machine-Twist.) No. 15,673; Apr. 18; Gaz. vol. 165; p. 728.
Sea Island Thread Co., New York, N. Y. "Alexander." (For Machine-Twist.) No. 15,674; Apr. 18; Gaz. vol. 165; p. 728.
Sea Island Thread Co., New York, N. Y. "French Twist." (For Machine-Twist.) No. 15,675; Apr. 18; Gaz. vol. 165; p. 728.
Sea Island Thread Co., New York, N. Y. "Ottoman Silk." (For Machine-Twist.) No. 15,676; Apr. 18; Gaz. vol. 165; p. 728.
Sea Island Thread Co., New York, N. Y. "The World." (For Machine-Twist.) No. 15,677; Apr. 18; Gaz. vol. 165; p. 728.
Seaconnet Mills, Fall River, Mass. "Seaconnet Superior Sheeting." (For Sheetings.) No. 15,755; May 30; Gaz. vol. 166; p. 1280.
Seiberth, Christopher, Indianapolis, Ind. "Sanitoin." (For Ointment.) No. 15,980; Oct. 24; Gaz. vol. 171; p. 982.
Semy-Mayde Garment Co., New York, N. Y. "The 'Semy-Mayde' Girl." (For Partly-Made Garments.) No. 15,890; Sept. 12; Gaz. vol. 170; p. 480.
Semy-Mayde Garment Co., New York, N. Y. "The 'Semy-Mayde' Girl." (For Partly-Made Garments.) Nos. 15,947–58; Oct. 3; Gaz. vol. 171; p. 212.
Sensenbrenner, August, San Diego, Cal. "Panama-California Exposition." (For Cigars.) No. 16,026; Nov. 21; Gaz. vol. 172; p. 820.
Shackelton, Wilson C., Chicago, Ill. "Graspit." (For Belting.) No. 15,560; Feb. 21; Gaz. vol. 163; p. 726.
Shelley, Caroline L., Brooklyn, N. Y. "Pearl-Kepe." (For Tooth-Wash.) No. 16,012; Nov. 7; Gaz. vol. 172; p. 258.
Smith, A. M., Minneapolis, Minn. "Perfection." (For Butter.) No. 16,037; Nov. 21; Gaz. vol. 172; p. 820.
Smith, Author M., Minneapolis, Minn. "Crescent." (For Beer.) No. 15,726; May 9; Gaz. vol. 166; p. 510.
Smith, Author M., Minneapolis, Minn. "Harvester." (For Whisky.) No. 15,727; May 9; Gaz. vol. 166; p. 510.
Smith & Co., Louis G., New York, N. Y. "Carlotina." (For Cigars.) No. 15,817; July 18; Gaz. vol. 168; p. 786.
Smith Co., W. F., Fayetteville, N. C. "Surprise." (For Peanuts.) No. 15,968; Oct. 10; Gaz. vol. 171; p. 480.
Smith, Frederick T., Jersey City, N. J. "F. T. Smith's Compound for Improved Welsh Rarebit." (For Welsh Rabbit.) No. 15,838; Aug. 8; Gaz. vol. 169; p. 448.
Smith, Mark W., Los Angeles, Cal. "Zenith." (For Stove and Nickel Polish.) No. 15,569; Feb. 28; Gaz. vol. 163; p. 976.
Snyder & Sons, Jno. C. F., Philadelphia, Pa. "Waxalite." (For a Sweeping Compound.) No. 15,594; Mar. 7; Gaz. vol. 164; p. 248.
Southern Cotton Oil Company, The, Chicago, Ill. "77." (For Cotton-Seed Oil.) No. 16,067; Dec. 12; Gaz. vol. 173; p. 582.
Spedden Packing Co., James, Md. "Spedden's Pride." (For Canned Tomatoes.) No. 15,855; Aug. 22; Gaz. vol. 169; p. 942.
Spilman, Frank J., Connersville, Ind. "Figoids." (For Laxative Tablets.) No. 15,865; Aug. 29; Gaz. vol. 169; p. 1183.
St. James Oil Company, Los Angeles, Cal. "St. James's Oil." (For St. James's Oil.) No. 15,920; Sept. 26; Gaz. vol. 170; p. 926.
Standish, Wm., Milwaukee, Wis., assignor to Reno Brewing Co., Reno, Nev. "Royal." (For Beer.) No. 15,992; Oct. 31; Gaz. vol. 171; p. 1256.
Standish, Wm., Milwaukee, Wis., assignor to Reno Brewing Co., Reno, Nev. "Sierra." (For Beer.) No. 15,993; Oct. 31; Gaz. vol. 171; p. 1256.
Stark Distillery Co., St. Louis, Mo. "Stone Hill." (For Sour-Mash Whisky.) No. 15,512; Feb. 7; Gaz. vol. 163; p. 229.
Stark Distillery Co., St. Louis, Mo. "Stone Hill." (For Whisky.) No. 15,639; Apr. 11; Gaz. vol. 165; p. 472.
Starry, Wallace G., Harrisburg, Pa. "New Idea." (For Hosiery.) No. 15,572; Feb. 28; Gaz. vol. 163; p. 976.
Sterns Specialty Co., The, Newark, N. J. "Dentakos." (For a Preparation for the Teeth, Mouth, and Gums.) No. 15,694; Apr. 25; Gaz. vol. 165; p. 970.
Stone, M. L., St. Paul, Minn. "St-Onez." (For Cigars.) No. 15,734; May 16; Gaz. vol. 166; p. 750.
Strasbaugh, H. P., Aberdeen, Md. "I. C." (For Canned Beans with Pork.) No. 15,998; Oct. 31; Gaz. vol. 171; p. 1256.
Strasbaugh, H. P., Aberdeen, Md. "Ever Ready." (For Canned Sugar-Corn.) No. 15,999; Oct. 31; Gaz. vol. 171; p. 1256.
Strasbaugh, H. P., Aberdeen, Md. "Korn Tips and Kernels." (For Canned Sugar-Corn.) No. 16,000; Oct. 31; Gaz. vol. 171; p. 1256.
Sudduth, W. X. Billings, Mont. "Lactafal." (For Stock Feed.) No. 15,941; Oct. 3; Gaz. vol. 171; p. 212.
Surety Cigar Co. Ltd., Detroit, Mich. "Poster 5¢ Cigar." (For Cigars.) No. 15,938; Oct. 3; Gaz. vol. 171; p. 212.
Sutherland, Charles R., Albany, N. Y. "Zenobia." (For Coffee.) No. 15,652; Apr. 18; Gaz. vol. 165; p. 728.
Sutherland, Charles R., Albany, N. Y. "Sutherland's Best." (For Coffee.) No. 15,653; Apr. 18; Gaz. vol. 165; p. 728.
Takis, Costis, New York, N. Y. "The Goody Shop." (For Confections.) No. 15,789; June 27; Gaz. vol. 167; p. 980.

Alphabetical list of registrants of labels—Continued.

Tate Spring Company, Tate Springs, Tenn. "Tate Spring Natural Mineral Water." (For Mineral Water.) No. 15,788; June 27; Gaz. vol. 167; p. 980.
Taub, Louis, New York, N. Y. "Real." (For Sweeping-Brooms.) No. 15,649; Apr. 11; Gaz. vol. 165; p. 472.
Thimsen, Carl A., San Pedro, Cal. "Bananola Bread." (For Bread.) No. 15,708; May 2; Gaz. vol. 166; p. 249.
Thomsen Chemical Co., Baltimore, Md. "Atomic Sulphur." (For Fungicides and Insecticides.) No. 15,875; Sept. 5; Gaz. vol. 170; p. 242.
Todd, John T., Springfield, Ill. "Tess Mads." (For Card Games.) No. 15,847; Aug. 8; Gaz. vol. 169; p. 448.
Toffaleti Gonzalez Co., Port Tampa, Fla. "O K." (For Cigars.) No. 15,717; May 9; Gaz. vol. 166; p. 510.
Toffaleti Gonzalez Co., Port Tampa, Fla. "Las Perlas." (For Cigars.) No. 15,740; May 23; Gaz. vol. 166; p. 984.
Towns & James, New York, N. Y. "Unguentum Resorzinox." (For an Ointment for Cutaneous Affections.) No. 16,041; Nov. 21; Gaz. vol. 172; p. 820.
Towns & James, New York, N. Y. "Resorzinox Ointment." (For Ointment for Cutaneous Affections and for Cuts, Bruises, &c.) No. 16,042; Nov. 21; Gaz. vol. 172; p. 820.
Trainor, John B., Philadelphia, Pa. "Margaret Penn Candies." (For Candies.) No. 15,535; Feb. 14; Gaz. vol. 163; p. 480.
Traverse City Refrigerator Co., Traverse City, Mich. "Service." (For Refrigerators and Ice-Boxes.) No. 15,803; June 27; Gaz. vol. 167; p. 980.
Two In One Tonic Co., Eastman, Ga. "Two In One Tonic." (For Chill-Tonic Medicine.) No. 15,764; June 6; Gaz. vol. 167; p. 239.
U. S. Hame Company, Buffalo, N. Y. "The 500 Hame." (For Hames.) No. 15,944; Oct. 3; Gaz. vol. 171; p. 212.
U. S. Hame Company, Buffalo, N. Y. "The 501 Hame." (For Hames.) No. 15,945; Oct. 3; Gaz. vol. 171; p. 212.
U. S. Hame Company, Buffalo, N. Y. "The Lone Star Hame." (For Hames.) No. 16,068; Dec. 12; Gaz. vol. 173; p. 582.
Vallon, Michel T., New Orleans, La. "Rochon." (For Roach-Powder.) No. 15,731; May 9; Gaz. vol. 166; p. 510.
Voigt, Carl S., Battle Creek, Mich. "Royal Toasted Corn Flakes." (For Corn-Flakes.) No. 15,445; Jan. 3; Gaz. vol. 162; p. 267.
Walker, Albertus F., Butler, Pa. "Walker's Cough Drops." (For Cough-Drops.) No. 16,069; Dec. 12; Gaz. vol. 173; p. 582.
Walter M. Lowney Company, The, Boston, Mass. "Lowney's Assorted Chocolates." (For Chocolates.) Nos. 15,774–6; June 20; Gaz. vol. 167; p. 761.
Ward-Owsley Co., Aberdeen, S. D. "Ward-Owsley Cherry Fruit Bar." (For Cherry Fruit Bars.) No. 15,517; Feb. 7; Gaz. vol. 163; p. 229.
Warfield-Pratt-Howell Co., Des Moines, Iowa. "Howell's Superb Brand." (For Teas.) No. 15,786; June 27; Gaz. vol. 167; p. 980.
Warren Manufacturing Company, New York, N. Y. "Riegel's." (For Paper.) No. 15,490; Jan. 24; Gaz. vol. 162; p. 997.
Waseca Co-Operative Milling Co., The, Waseca, Minn. "The Cottage Breakfast Food." (For Breakfast Food.) No. 15,819; July 18; Gaz. vol. 168; p. 786.
Washtella Cigar Co., Pella, Iowa. "Washtella." (For Cigars.) No. 15,636; Apr. 11; Gaz. vol. 165; p. 472.
Watman, George, New Brunswick, N. J. "Kil-Em-Al." (For a Liquid Preparation for Destroying Insects.) No. 15,765; June 6; Gaz. vol. 167; p. 239.
Weiss, Chris H., Chicago, Ill. "Weiss Perfection Metal Polish." (For Metal-Polish.) No. 15,983; Oct. 24; Gaz. vol. 171; p. 982.
Wellhouse, Louis, Atlanta, Ga. "Japanese Tomatoe Wraps." (For Wrapping-Paper.) No. 15,647; Apr. 11; Gaz. vol. 165; p. 472.
Wellman, George O., Jr., Chicago, Ill. "Pān Gōw." (For a Remedy.) No. 15,981; Oct. 24; Gaz. vol. 171; p. 982.
Westcott, R. B. & C. E., Oakland, Cal. "Nutrol." (For Dietetic Food.) No. 16,040; Nov. 21; Gaz. vol. 172; p. 820.
Whealton, Chas. J., Norfolk, Va. "Ladies' Friend." (For a Remedy.) No. 16,045; Nov. 21; Gaz. vol. 172; p. 820.
White, Charles C., New York, N. Y. "Tidy Toilet Tissue." (For Rolls of Toilet-Paper.) No. 15,929; Sept. 26; Gaz. vol. 170; p. 926.
Wigder, Edward, Newark, N. J. "Iron-Kola." (For Non-Alcoholic Beverage.) No. 15,610; Mar. 28; Gaz. vol. 164; p. 973.
William G. Bell Company, The, Boston, Mass. "Bell's Spiced Seasoning." (For Spiced Seasoning for Meat, Game, Fish, and Poultry.) No. 15,450; Jan. 10; Gaz. vol. 162; p. 535.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "Meteor." (For Invisible Eyes.) No. 15,618; Mar. 28; Gaz. vol. 164; p. 973.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "Imperator." (For Mouth-Organs.) No. 15,663; Apr. 18; Gaz. vol. 165; p. 728.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "No. 43." (For Harmonicas.) No. 15,664; Apr. 18; Gaz. vol. 165; p. 728.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "Opera Band Wilhelm Thie." (For Harmonicas.) No. 15,665; Apr. 18; Gaz. vol. 165; p. 728.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "Continental." (For Harmonicas.) No. 15,666; Apr. 18; Gaz. vol. 165; p. 728.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "Opera Band." (For Harmonicas.) No. 15,667; Apr. 18; Gaz. vol. 165; p. 728.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "Salvator." (For Harmonicas.) No. 15,668; Apr. 18; Gaz. vol 165; p. 728.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "Full Concert Harmonica." (For Harmonicas.) No. 15,669; Apr. 18; Gaz. vol. 165; p. 728.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "No. 65." (For Harmonicas.) No. 15,670; Apr. 18; Gaz. vol. 165; p. 728.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "The Dwarf Band." (For Harmonicas.) No. 15,671; Apr. 18; Gaz. vol. 165; p. 728.
William Prym Gesellschaft mit beschränkter Haftung, Stolberg, Germany. "Wilhelm Thie." (For Harmonicas.) No. 15,804; June 27; Gaz. vol. 167; p. 980.
Williamson & Brower, Xenia, Ohio. "Gen'l Putnam." (For Cigars.) No. 15,977; Oct. 24; Gaz. vol. 171; p. 982.
Wolf, Joseph, Laporte, Ind. "La Porte Ten Cigars." (For Cigars.) No. 15,549; Feb. 21; Gaz. vol. 163; p. 726.
Wolf & Sons, H., Cincinnati, Ohio. "Everlast." (For Hosiery.) No. 16,019; Nov. 7; Gaz. vol. 172; p. 258.
Wood-Seys, Roland A., Oceanside, Cal. "Mother Mell's Mixture." (For a Medicine.) No. 15,744; May 23; Gaz. vol. 166; p. 984.
World Polish Manufacturing Company, York, Pa. "Japanese Furniture Polish." (For Furniture-Polish.) No. 15,451; Jan. 10; Gaz. vol. 162; p. 535.
Wyman Canning Co., Millbridge, Me. "Mother Goose." (For Sardines.) No. 15,657; Apr. 18; Gaz. vol. 165; p. 728.
Yager, Philip W., Hastings, Nebr. "Yagers Top Notch Bread." (For Bread.) No. 16,020; Nov. 14; Gaz. vol. 172; p. 547.
Yale Knitting Co., Malden, Mass. "Yale." (For Union Underwear.) No. 15,632; Apr. 4; Gaz. vol. 165; p. 239.
Yankauer, David, deceased; M. Yankauer, L. Yankauer, and G. Yankauer, executors, trading as Yankauer & Co., New York, N. Y. "Jim Dandy." (For Candy-Coated Popcorn and Nuts.) No. 15,939; Oct. 3; Gaz. vol. 171; p. 212.
Yankauer, Gustavus, *et al.*, executors. (See Yankauer, David.)
Yankauer, Louis, *et al.*, executors. (See Yankauer, David.)
Yankauer, Max, *et al.*, executors. (See Yankauer, David.)
Zaharis, Tom D., and Chris N. Kargiotis, Minneapolis, Minn. "Mexicos Best." (For Chilli-Con-Carne.) No. 15,974; Oct. 17; Gaz. vol. 171; p. 742.
Zerwekh, Karl, Pekin, Ill. "American Pride." (For Ginger-Ale.) No. 15,849; Aug. 15; Gaz. vol. 169; p. 700.

PRINTS.

A. J. Reach Company, Philadelphia, Pa. "Base Ball Players." (For Base-Ball Goods.) No. 2,692; Feb. 7; Gaz. vol. 163; p. 229.
Adler & Co., Jacob, New York, N. Y. "Fit for Everybody." (For Gloves.) No. 2,850; Oct. 3; Gaz. vol. 171; p. 212.
Advance Novelty Candy Mfg. Co., New York, N. Y. "Advance." (For Wild-Cherry and Hoarhound Drops.) No. 2,863; Oct. 17; Gaz. vol. 171; p. 742.
Advance Pharmacal Co., New York, N. Y. "E-Z-Lax." (For Laxative Candy.) No. 2,793; July 11; Gaz. vol. 168; p. 523.
Allen B. Wrisley Co., Chicago, Ill. "Florentine Liquid Shampoo." (For Liquid Shampoo.) No. 2,812; Aug. 8; Gaz. vol. 169; p. 448.
Allen-Foster-Willett Co., Lynn, Mass. "The Woman of the Hour." (For Boots and Shoes.) No. 2,905; Dec. 12; Gaz. vol. 173; p. 582.
American Circular Loom Co., Boston, Mass. "Autoduct." (For Flexible Conduit-Tubing for Electrical Purposes.) No. 2,749; May 16; Gaz. vol. 166; p. 750.
American Kitchen Products Company, New York, N. Y. "Steero." (For Bouillon Cubes.) Nos. 2,715–22; Mar. 28; Gaz. vol. 164; p. 973.
American Kitchen Products Company, New York, N. Y. "Steero." (For Bouillon Cubes.) No. 2,726; Apr. 11; Gaz. vol. 165; p. 472.
American Kitchen Products Company, New York, N. Y. "Steero." (For Bouillon Cubes.) No. 2,739; May 2; Gaz. vol. 166; p. 249.
American Lithographic Company, New York, N. Y. "Sylvan Toilet Talcum (Borated) Powder Is Antiseptic, Absorbent and Delightfully Refreshing." (For Sylvan Toilet Talcum (Borated) Powder.) No. 2,741; May 2; Gaz. vol. 166; p. 249.
American Lithographic Company, New York, N. Y. "Kickapoo Worm Killer." (For Worm-Killer.) No. 2,829; Sept. 5; Gaz. vol. 170; p. 242.
American Lithographic Company, New York, N. Y. "Crudol." (For a Hair-Tonic.) No. 2,890; Nov. 21; Gaz. vol. 172; p. 821.
American Tobacco Co., The, New York, N. Y. "The Lily Of The Valley." (For Cork-Tip Cigarettes.) No. 2,858; Oct. 17; Gaz. vol. 171; p. 742.
American Tobacco Co., The, New York, N. Y. "The Pansy." (For Cork-Tip Cigarettes.) No. 2,859; Oct. 17; Gaz. vol. 171; p. 742.
American Tobacco Co., The, New York, N. Y. "The Tulip." (For Cork-Tip Cigarettes.) No. 2,860; Oct. 17; Gaz. vol. 171; p. 742.
American Tobacco Company, The, New York, N. Y. "Chrysanthemum." (For Cork-Tip Cigarettes.) No. 2,870; Oct. 31; Gaz. vol. 171; p. 1256.
American Tobacco Company, The, New York, N. Y. "Violet." (For Cork-Tip Cigarettes.) No. 2,871; Oct. 31; Gaz. vol. 171; p. 1256.
American Tobacco Company, The, New York, N. Y. "Rose." (For Cork-Tip Cigarettes.) No. 2,872; Oct. 31; Gaz. vol. 171; p. 1256.
Arithstyle Company, New York, N. Y. "Arithstyle." (For Computing-Machines.) No. 2,906; Dec. 12; Gaz. vol. 173; p. 582.
Artistoria Novelty Co., Rochester, N. Y. "The Puzzle Wood Display Outfit, No. 10." (For Wooden Forms for Displaying Goods in Store-Windows.) No. 2,679; Jan. 3; Gaz. vol. 162; p. 267.
Atkins Co., The, New York, N. Y. "Spic and Span." (For Polish for Brass, Nickel, and Copper.) No. 2,880; Nov. 7; Gaz. vol. 172; p. 258.
Auerbach & Sons, D., New York, N. Y. "Red Band Girl." (For Candy.) No. 2,702; Feb. 28; Gaz. vol. 163; p. 976.
Ben Levy Company, Boston, Mass. "Grace Morrissey." (For Face-Powder.) No. 2,922; Dec. 26; Gaz. vol. 173; p. 1078.
Bernagozzi, William P., New York, N. Y. "Ferro China Bernag." (For Ferro China Bernag.) No. 2,803; Aug. 8; Gaz. vol. 169; p. 448.
Bernheim Distilling Company, Louisville, Ky. "A Fair Exchange." (For Whisky.) No. 2,913; Dec. 19; Gaz. vol. 173; p. 861.
Black Silk Stove Polish Works, The, Sterling, Ill. "A Shine In Every Drop." (For Stove-Polish, Metal-Polish, and Iron-Enamel.) No. 2,897; Nov. 21; Gaz. vol. 172; p. 821.
Borden's Condensed Milk Company, New York, N. Y. "Borden's Malted Milk." (For Malted Milk.) No. 2,727; Apr. 11; Gaz. vol. 165; p. 472.
Borden's Condensed Milk Company, New York, N. Y. "Borden's Eagle Brand." (For Condensed Milk.) No. 2,783; June 20; Gaz. vol. 167; p. 761.
Bour Company, The, Toledo, Ohio. "Coffee." (For Coffee.) No. 2,827; Sept. 5; Gaz. vol. 170; p. 242.
Bour Company, The, Toledo, Ohio. "The Bour Twins." (For Coffee and Tea.) No. 2,874; Oct. 31; Gaz. vol. 171; p. 1256.
Brenner, John A., Marion, Ark. "Mexican Hot." (For a Non-Alcoholic Temperance Beverage.) No. 2,785; June 27; Gaz. vol. 167; p. 980.
Brown, Thomas E., Philadelphia, Pa. "Boot Silk Hosiery." (For Hosiery.) No. 2,701; Feb. 21; Gaz. vol. 163; p. 726.
Brunswick-Balke-Collender Co., The, Chicago, Ill. "St. Elmo." (For Billiard-Tables.) No. 2,735; Apr. 18; Gaz. vol. 165; p. 728.
Burgess, Clarence S. (See Cook and Burgess.)
Burton Bros. & Co., New York, N. Y. "Yard Wide Wonder Silk." (For Silk.) No. 2,852; Oct. 3; Gaz. 171; p. 212.
C. Berry & Co., Boston, Mass. "Always In Front." (For Straight Whisky.) Nos. 2,680–1; Jan. 17; Gaz. vol. 162; p. 781.
Cahn, Herman J., Baltimore, Md. "'Collar Hug' Clothes." (For Clothing.) No. 2,869; Oct. 24; Gaz. vol. 171; p. 982.
Carnegie Fuel Company, Minneapolis, Minn. "A Message To You." (For Coal.) No. 2,881; Nov. 7; Gaz. vol. 172; p. 258.
Carter's Ink Company, The, Cambridge, Mass. "After All, No Copies Like Carter's—The Stenographer's Ideal." (For Type-Writer Ribbons and Carbon-Paper.) No. 2,677; Jan. 3; Gaz. vol. 162; p. 267.
Case & Martin Co., Chicago, Ill. "Case & Martin's Connecticut Pies." (For Pies.) No. 2,923; Dec. 26; Gaz. vol. 173; p. 1078.
Casey-Hedges Company, The, Cincinnati, Ohio, and Chattanooga, Tenn. "Rear View of The Casey-Hedges Patented Improved Steel Casing with Combustion Chamber and Spark Catcher." (For Boiler-Settings.) No. 2,707; Mar. 7; Gaz. vol. 164; p. 248.
Casey-Hedges Company, The, Cincinnati, Ohio, and Chattanooga, Tenn. "Front View of The Casey-Hedges Patented Improved Steel Casing with Combustion Chamber and Spark Catcher." (For Boiler-Settings.) No. 2,708; Mar. 7; Gaz. vol. 164; p. 248.
Castle, James, Lynn, Mass. "Soothingsalve." (For Ointment.) No. 2,875; Oct. 31; Gaz. vol. 171; p. 1256.
Celery Soda Company, San Francisco, Cal. "Cel-So Removes the Blues." (For Headache Remedy.) No. 2,703; Feb. 28; Gaz. vol. 163; p. 976.
Chicago Portland Cement Company, Chicago, Ill. "Chicago Portland Cement." (For Portland Cement.) No. 2,732; Apr. 11; Gaz. vol. 165; p. 472.
Cleveland Milling Co., The, Cleveland, Ohio. "Extra Fine Quality." (For Flour.) No. 2,723; Mar. 28; Gaz. vol. 164; p. 973.
Cluett, Peabody & Company, Troy, N. Y. "Dorset the New Summer Arrow Collars." (For Arrow Collars.) No. 2,764; May 23; Gaz. vol. 166; p. 984.
Cluett, Peabody & Company, Troy, N. Y. "'Glenroy' an Arrow Collar for Summer." (For Arrow Collars.) No. 2,765; May 23; Gaz. vol. 166; p. 984.
Cluett, Peabody & Company, Troy, N. Y. "Betsy Ross 3 an Arrow Collar for Women." (For Arrow Collars.) No. 2,766; May 23; Gaz. vol. 166; p. 984.
Cluett, Peabody & Company, Troy, N. Y. "Donchester." (For Cluett Shirts.) No. 2,773; May 30; Gaz. vol. 166; p. 1280.
Cluett, Peabody & Company, Troy, N. Y. "Arrow Notch Collar." (For Arrow Collars.) No. 2,774; May 30; Gaz. vol. 166; p. 1280.
Cluett, Peabody & Co., New York and Troy, N. Y. "Arrow Shirts." (For Shirts.) No. 2,868; Oct. 24; Gaz. vol. 171; p. 982.
Cluett, Peabody & Company, Troy, N. Y. "The Panama an Arrow Shirt." (For Arrow Shirts.) No. 2,883; Nov. 7; Gaz. vol. 172; p. 258.
Cluett, Peabody & Company, Troy, N. Y. "Donchester an evening Shirt." (For Cluett Dress-Shirts.) No. 2,884; Nov. 7; Gaz. vol. 172; p. 258.
Coca-Cola Bottling Co., The, Atlanta, Ga. "Motor Girl." (For Coca-Cola.) No. 2,705; Mar. 7; Gaz. vol. 164; p. 248.
Cook, Herbert E., and C. S. Burgess, Harwick Port, Mass. "Cranberry Sauce." (For Cranberry Sauce.) No. 2,800; July 18; Gaz. vol. 168; p. 786.
Corset H Company, Worcester, Mass. "Ivy." (For Corsets.) No. 2,792; July 4; Gaz. vol. 168; p. 247.
Cream of Wheat Co., Minneapolis, Minn. "A New Arrival At Palm Beach." (For Wheat Breakfast Food.) No. 2,686; Jan. 24; Gaz. vol. 162; p. 997.
Cream of Wheat Co., Minneapolis, Minn. "Imitation, The Sincerest Flattery." (For Wheat Breakfast Food.) No. 2,709; Mar. 14; Gaz. vol. 164; p. 505.

Alphabetical list of registrants of prints—Continued.

Cream of Wheat Co., Minneapolis, Minn. "Why, Cream of Wheat, of Course!" (For Wheat Breakfast Food.) No. 2,772; May 30; Gaz. vol. 166; p. 1280.
Cream of Wheat Co., Minneapolis, Minn. "A Sign of Good Living." (For Wheat Breakfast Food.) No. 2,791; July 4; Gaz. vol. 168; p. 247.
Cream of Wheat Co., Minneapolis, Minn. "Anticipation." (For Wheat Breakfast Food.) No. 2,796; July 18; Gaz. vol. 168; p. 786.
Cream of Wheat Co., Minneapolis, Minn. "Country Life In America." (For Wheat Breakfast Food.) No. 2,816; Aug. 15; Gaz. vol. 169; p. 700.
Cream of Wheat Co., Minneapolis, Minn. "Mamma says I'm her Cream of Wheat man." (For Wheat Breakfast Food.) No. 2,839; Sept. 12; Gaz. vol. 170; p. 480.
Cream of Wheat Co., Minneapolis, Minn. "For a Starter." (For Wheat Breakfast Food.) No. 2,865; Oct. 24; Gaz. vol. 171; p. 982.
Cream of Wheat Co., Minneapolis, Minn. "The Boy Artist." (For Wheat Breakfast Food.) No. 2,914; Dec. 19; Gaz. vol. 173; p. 861.
Cream of Wheat Co., Minneapolis, Minn. "Dat's Mah Boy." (For Wheat Breakfast Food.) No. 2,915; Dec. 19; Gaz. vol. 173; p. 861.
D. J. O'Brien Co., Omaha, Nebr. "Sugar Plums." (For Confectionery.) No. 2,903; Nov. 28; Gaz. vol. 172; p. 1087.
D. M. Ferry & Co., Detroit, Mich. "Onion Seeds." (For Onion-Seeds.) No. 2,907; Dec. 12; Gaz. vol. 173; p. 582.
Darby Candy Company, The, Baltimore, Md. "Vivil Candy Tablets." (For Vivil Candy Tablets.) No. 2,799; July 18; Gaz. vol. 168; p. 786.
Dawson Pharmacal Co., The, Dawson Springs, Ky. "Products That Have Made Kentucky Famous." (For Iodinized Emulsion and Creosotonic.) No. 2,700; Feb. 21; Gaz. vol. 163; p. 726.
Dennis Manufacturing Company, Sutter Creek, Cal. "Knocks." (For an Ointment.) No. 2,776; June 6; Gaz. vol. 167; p. 239.
Derbyshire, Frederick W., Waltham, Mass. "Derbyshire Lathe." (For Lathes.) No. 2,734; Apr. 18; Gaz. vol. 165; p. 728.
Dodd, Harry G., St. Louis, Mo. "Harry G. Dodd & Co., Canned Goods, Dried Fruits, Beans." (For Canned Goods, Dried Fruits and Beans in Sacks.) No. 2,746; May 9; Gaz. vol. 166; p. 510.
Dodge, Marcellus H., Passaic township, N. J. "Remington Arms-Union Metallic Cartridge Co." (For Guns and Ammunition.) No. 2,855; Oct. 10; Gaz. vol. 171; p. 480.
Dr. A. C. Daniels (Inc.), Boston, Mass. "At Play." (For Packages Containing Catnip.) No. 2,878; Nov. 7; Gaz. vol. 172; p. 258.
Dr. A. C. Daniels (Inc.), Boston, Mass. "The Doctor." (For Dog Remedies.) No. 2,879; Nov. 7; Gaz. vol. 172; p. 258.
Dr. Earl S. Sloan Inc., Boston, Mass. "Sloan's Liniment." (For Liniment.) Nos. 2,916–19; Dec. 19; Gaz. vol. 173; p. 861.
Edgarton Mfg. Co., C. A., The, Shirley, Mass. "Shirley President Suspenders, B." (For Suspenders.) No. 2,767; May 23; Gaz. vol. 166; p. 984.
Edgarton Mfg. Co., C. A., The, Shirley, Mass. "Shirley President Braces." (For Suspenders.) No. 2,768; May 23; Gaz. vol. 166; p. 984.
Edgarton Mfg. Co., C. A., The, Shirley, Mass. "Shirley President Suspenders, A." (For Suspenders.) No. 2,769; May 23; Gaz. vol. 166; p. 984.
Edwards & Deutsch Lithographing Company, New York, N. Y. "Borden's Evaporated Milk Peerless Brand." (For Evaporated Milk.) No. 2,846; Oct. 3; Gaz. vol. 171; p. 212.
Edwards & Deutsch Lithographing Company, Chicago, Ill. "Borden's Evaporated Milk Peerless Brand." (For Evaporated Milk.) Nos. 2,861–2; Oct. 17; Gaz. vol. 171; p. 742.
Fisk Rubber Company, The, Chicopee Falls, Mass. "Time to Re-tire." (For Tires.) No. 2,856; Oct. 10; Gaz. vol. 171; p. 480.
Foster Rubber Company, Boston, Mass. "Cat's Paw Non-Slip Cushion Rubber Heel." (For Cushion-Heels.) No. 2,849; Oct. 3; Gaz. vol. 171; p. 212.
Fresno Home Packing Co., Fresno, Cal. "Blue Ribbon Raisins." (For Raisins.) No. 2,688; Feb. 7; Gaz. vol. 163; p. 229.
Friedman, Moritz, New York, N. Y. "Manhattan French Bouquet Borated Talcum." (For Talcum Powder.) No. 2,747; May 9; Gaz. vol. 166; p. 510.
Galey & Lord, New York, N. Y. "Aberfoyle Fadeless Fabrics." (For Cotton, Silk, and Mixed Cotton and Silk Fabrics.) No. 2,763; May 23; Gaz. vol. 166; p. 984.
General Motors Company, Detroit, Mich. "G M C." (For Automobiles.) No. 2,815; Aug. 8; Gaz. vol. 169; p. 448.
Geo. S. Johnston Co., Chicago, Ill. "Certificate of Guarantee." (For Spectacle Eyeglass Frames or Mountings.) No. 2,724; Mar. 28; Gaz. vol. 164; p. 973.
Gerstendorfer Bros., New York, N. Y. "Sapolin." (For Enamels, Stains, and Gildings.) Nos. 2,885–6; Nov. 14; Gaz. vol. 172; p. 547.
Globe Tailoring Co., The, Cincinnati, Ohio. "'Needle-Molded' Clothes." (For Clothing.) No. 2,730; Apr. 11; Gaz. vol. 165; p. 472.
Globe Tanning & Manufacturing Co., Des Moines, Iowa. "Best Tan." (For Hides and Furs.) No. 2,924; Dec. 26; Gaz. vol. 173; p. 1078.
Gray Lithograph Co., The, New York, N. Y. "Victors." (For Tobacco.) No. 2,805; Aug. 8; Gaz. vol. 169; p. 448.
Haley & Co., C. J., New York, N. Y. "New York Garter." (For Garters.) No. 2,728; Apr. 11; Gaz. vol. 165; p. 472.
Hamilton, William C., Pittsburg, Pa. "Out of Sight." (For The Chase Piano.) No. 2,731; Apr. 11; Gaz. vol. 165; p. 472.
Hayes Lithographing Co., The, Buffalo, N. Y. "Milwaukee Harvesting Machines." (For Harvesting-Machines.) No, 2,697; Feb. 14; Gaz. vol. 163; p. 480.
Hayes Lithographing Co., The, Buffalo, N. Y. "Osborne Harvesting Machines and Farming Implements." (For Harvesting-Machines and Farming Implements.) No. 2,698; Feb. 14; Gaz. vol. 163; p. 480.
Headley & Farmer Co., Newark, N. J. "The Factory Behind The Trunk." (For Trunks.) No. 2,713; Mar. 21; Gaz. vol. 164; p. 738.
J. W. Kelly & Co., Chattanooga, Tenn. "Deep Spring Whiskey." (For Deep Spring Whisky.) No. 2,876; Nov. 7; Gaz. vol. 172; p. 258.
James, Edward, Cleveland, Ohio. "Gyroheel." (For Heels for Shoes.) No. 2,908; Dec. 12; Gaz. vol. 173; p. 582.
Joseph Campbell Company, The, Camden, N. J. "Campbell's Soups." (For Campbell's Soups.) No. 2,751; May 23; Gaz. vol. 166; p. 984.
Joseph Campbell Company, Camden, N. J. "Campbell's Soups." (For Soup.) Nos. 2,806–11; Aug. 8; Gaz. vol. 169; p. 448.
Joseph Campbell Company, Camden, N. J. "Campbell's Soups." (For Campbell's Soups.) Nos. 2,833–8; Sept. 12; Gaz. vol. 170; p. 480.
Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "The Food To Tie To." (For Prepared Cereal Foods.) No. 2,877; Nov. 7; Gaz. vol. 172; p. 258.
L. Adler Bros. & Co., Rochester, N. Y. "Fall & Winter Adler Rochester Clothes." (For Clothes.) No. 2,851; Oct. 3; Gaz. vol. 171; p. 212.
Landers, Frary & Clark, New Britain, Conn. "The Universal Safety Razors." (For Universal Safety-Razors.) No. 2,691; Feb. 7; Gaz. vol. 163; p. 229.
Lawton, William Y., San Francisco, Cal. "Poppy Brand Cotton-Seed Oil." (For Cotton-Seed Oil.) No. 2,752; May 23; Gaz. vol. 166; p. 984.
Leonard, W. H., New York, N. Y. "G Washington Coffee, Made In The Cup." (For Coffee.) No. 2,687; Feb. 7; Gaz. vol. 163; p. 229.
Lincoln Overall & Shirt Co., Lincoln, Nebr. "Jones's Flyer." (For Overalls.) No. 2,750; May 16; Gaz. vol. 166; p. 750.
Listman Mill Company, La Crosse, Wis. "From Ripened Grains of the Western Plains." (For Wheat-Flour.) No. 2,854; Oct. 10; Gaz. vol. 171; p. 480.
Loft, George W., New York, N. Y. "Penny A Pound Profit Candy." (For Candy.) No. 2,775; June 6; Gaz. vol. 167; p. 239.
Louis Dejonge & Co., New York, N. Y. "Pyramid Fly Catcher." (For Adhesive Fly-Catching Devices.) Nos. 2,817–20; Aug. 15; Gaz. vol. 169; p. 700.
Louis Dejonge & Co., New York, N. Y. "Pyramid Fly Catchers." (For Adhesive Fly-Catching Devices.) No. 2,824; Aug. 29; Gaz. vol. 169; p. 1183.
Louis, Eugénie, Chicago, Ill. "Kirch's Kräuter Bitters." (For Tonics.) No. 2,689; Feb. 7; Gaz. vol. 163; p. 229.
Louis, Eugénie, Chicago, Ill. "Kirch's Kräuter Wein." (For Medicine.) No. 2,690; Feb. 7; Gaz. vol. 163; p. 229.
Lovejoy, Edward T., Oklahoma, Okla. "Clarified Purus." (For Drinking-Water.) No. 2,804; Aug. 8; Gaz. vol. 169; p. 448.
Luckett, Luchs & Lipscomb, Philadelphia, Pa. "Watch our Smoke." (For Cigars.) No. 2,845; Oct. 3; Gaz. vol. 171; p. 212.
Mailloux, Henry J., Lowell, Mass. "So Easy to Use." (For Starch.) No. 2,762; May 23; Gaz. vol. 166; p. 984.
Malnati, Angelo, deceased; L. Malnati, administratrix, East Lyme, Conn., and Quincy, Mass. "Golden Pink Granite." (For Granite.) No. 2,742; May 2; Gaz. vol. 166; p. 249.
Malnati, Lucy, administratrix. (See Malnati, Angelo.)
Martin, J. B., New York, N. Y. "Coming, Sir." (For Kümmel.) No. 2,738; May 2; Gaz. vol. 166; p. 249.
Maurice O'Meara Co., New York, N. Y. "Rain-Tight Rubber." (For Roofing.) No. 2,882; Nov. 7; Gaz. vol. 172; p. 258.
Metropolitan Printing Company, The, Elizabeth, N. J. "Johnson's Foot Soap." (For Johnson's Foot-Soap.) No. 2,788; June 27; Gaz. vol. 167; p. 980.
Metropolitan Printing Company, The, Elizabeth, N. J. "Which Will You Take?" (For Johann Hoff's Malt Extract.) No. 2,790; July 4; Gaz. vol. 168; p. 247.

Alphabetical list of registrants of prints—Continued.

Monumental Brewing Co., The, Baltimore, Md. "Here's Good Health." (For Beer.) No. 2,710; Mar. 21; Gaz. vol. 164; p. 738.
Morgan Drug Co., The, Brooklyn, N. Y. "Palmer 'Success' Treatment." (For Remedies for Skin Diseases.) No. 2,891; Nov. 21; Gaz. vol. 172; p. 821.
Morgan Drug Co., The, Brooklyn, N. Y. "Why Not Remove Those 'Pimples.'" (For Ointment.) No. 2,892; Nov. 21; Gaz. vol. 172; p. 821.
Morgan Drug Co., The, Brooklyn, N. Y. "To Be Rid Of Blackheads." (For Soap.) No. 2,893; Nov. 21; Gaz. vol. 172; p. 821.
Morgan Drug Co., The, Brooklyn, N. Y. "This Refined Sanative Soap." (For Soap.) No. 2,894; Nov. 21; Gaz. vol. 172; p. 821.
Morgan Drug Co., The, Brooklyn, N. Y. "Rub It On The Sore Spot." (For Ointment.) No. 2,895; Nov. 21; Gaz. vol. 172; p. 821.
Morgan Drug Co., The, Brooklyn, N. Y. "Palmer's 'Salt-Water' Soap." (For Salt-Water Soap.) No. 2,896; Nov. 21; Gaz. vol. 172; p. 821.
Moseley, Albert E., Poughkeepsie, N. Y. "Cherrie Mintz." (For Cough-Drops and Throat-Ease.) No. 2,685; Jan. 17; Gaz. vol. 162; p. 781.
National Equipment Co., The, Chicago, Ill. "Pull the Ring and Read." (For the "Automatic" Washline-Post.) No. 2,898; Nov. 21; Gaz. vol. 172; p. 821.
North Western Fuel Company, Milwaukee, Wis., and St. Paul, Minn. "Coal That's All Coal." (For Coals.) No. 2,782; June 13; Gaz. vol. 167; p. 512.
Northwestern Yeast Company, The, Chicago, Ill. "Magic Yeast Makes Good Bread." (For Magic Yeast.) No. 2,733; Apr. 18; Gaz. vol. 165; p. 728.
Northwestern Yeast Co., Chicago, Ill. "Use Magic Yeast For Making Root Beer For Making Bread." (For Yeast.) No. 2,787; June 27; Gaz. vol. 167; p. 980.
Northwestern Yeast Co., Chicago, Ill. "Yeast Foam." (For Yeast.) No. 2,801; July 18; Gaz. vol. 168; p. 786.
O'Malley, Ira J., Chicago, Ill. "Hot Water Instantly." (For Water-Heaters.) No. 2,867; Oct. 24; Gaz. vol. 171; p. 982.
Olson, Edward, New York, N. Y. "The Capitol Coat." (For Men's Wearing-Apparel.) No. 2,814; Aug. 8; Gaz. vol. 169; p. 448.
Palisade Manufacturing Company, The, West Hoboken, N. J. "Kitchen Bouquet." (For Flavoring and Coloring.) No. 2,847; Oct. 3; Gaz. vol. 171; p. 212.
Pearl Waste Co., The, New York, N. Y. "Household Assortment of Pearl Buttons." (For Pearl Buttons.) No. 2,678; Jan. 3; Gaz. vol. 162; p. 267.
Pease, J. M., Buffalo, N. Y. "Hygienic Comb Cleaner." (For a Comb-Cleaner.) No. 2,813; Aug. 8; Gaz. vol. 169; p. 448.
Peet Bros., Philadelphia, Pa. "A Stylish Reflection." (For Hooks and Eyes.) No. 2,900; Nov. 21; Gaz. vol. 172; p. 821.
Peter Schoenhofen Brewing Co., The, Chicago, Ill. "Edelweiss Beer." (For Beer.) No. 2,823; Aug. 29; Gaz. vol. 169; p. 1183.
Peter Schoenhofen Brewing Co., The, Chicago, Ill. "A Case Of Good Judgement." (For Beer.) No. 2,873; Oct. 31; Gaz. vol. 171; p. 1256.
Peters Cartridge Company, The, Cincinnati, Ohio. "Peters Shells." (For Shot-Shells.) No. 2,853; Oct. 3; Gaz. vol. 171; p. 212.
Peters Cartridge Company, The, Cincinnati, Ohio. "Peters Shot-Shells." (For Shells.) No. 2,909; Dec. 12; Gaz. vol. 173; p. 582.
Philo Hay Specialties Co., Newark, N. J. "Hay's Hair-Health." (For Dressing and Invigorant for the Hair.) No. 2,910; Dec. 12; Gaz. vol. 173; p. 582.
Plexo Preparations Inc., New York, N. Y. "Plexo Toilet Preparations For The Woman Who Cares." (For Plexo Toilet Preparations.) Nos. 2,779–80; June 13; Gaz. vol. 167; p. 512.
Pompeian Mfg. Co., The, Cleveland, Ohio. "Original Pompeian Beauty." (For Massage-Cream.) No 2,866; Oct. 24; Gaz. vol. 171; p. 982.
Postum Cereal Co., Battle Creek, Mich. "Postum—'There's a Reason.'" (For a Beverage.) No. 2,714; Mar. 28; Gaz. vol. 164; p. 973.
Pratt Food Company, The, Philadelphia, Pa. "Pratts, Poultry Regulator." (For Poultry-Regulator.) No. 2,889; Nov. 21; Gaz. vol. 172; p. 821.
R & G Shoe Company, The, Lynn, Mass. "The Dainty Dame Shoe." (For Boots and Shoes.) No. 2,920; Dec. 19; Gaz. vol. 173; p. 861.
Reich, George, Amsterdam, N. Y. "Pipe Protector and Tobacco Saver." (For Smoking-Pipes.) No. 2,712; Mar. 21; Gaz. vol. 164; p. 738.
Remington Arms-Union Metallic Cartridge Co., New York, N. Y. "A Bird In Every Shell." (For Guns and Ammunition.) Nos. 2,821–2; Aug. 15; Gaz. vol. 169; p. 700.
Richmond Casket Company, Richmond, Ind. "Colorado No. 10." (For Burial-Caskets.) No. 2,693; Feb. 14; Gaz. vol. 163; p. 480.
Richmond Casket Company, Richmond, Ind. "Oregon No. 1." (For Burial-Caskets.) No. 2,694; Feb. 14; Gaz. vol. 163; p. 480.
Richmond Casket Company, Richmond, Ind. "Indiana No. 2." (For Burial-Caskets.) No. 2,695; Feb. 14; Gaz. vol. 163; p. 480.
Richmond Casket Company, Richmond, Ind. "California No. 1." (For Burial-Caskets.) No. 2,696; Feb. 14; Gaz. vol. 163; p. 480.
Roberts, Johnson & Rand Shoe Company, St. Louis, Mo. "The 'Star Brand' Girl." (For Shoes.) No. 2,832; Sept. 5; Gaz. vol. 170; p. 242.
Robins Conveying Belt Company, New York, N. Y. "Robins Belt Conveyors." (For Belt Conveyers.) No. 2,844; Sept. 26; Gaz. vol. 170; p. 926.
Roessler & Hasslacher Chemical Co., The, New York, N. Y. "Persil Oxygen Washing Compound." (For Washing Compound.) No. 2,736; Apr. 25; Gaz. vol. 165; p. 970.
Roessler & Hasslacher Chem. Co., The, New York, N. Y. "Persil." (For Persil Oxygen Washing Compound.) No. 2,781; June 13; Gaz. vol. 167; p. 512.
Roneo Company, New York, N. Y. "All Pencils Look Alike To The Roneo Pencil Sharpener." (For Pencil-Sharpeners.) No. 2,831; Sept. 5; Gaz. vol. 170; p. 242.
Rosenbaum, Louis, New York, N. Y. "Rose Gas Irons." (For Gas-Irons.) No. 2,904; Nov. 28; Gaz. vol. 172; p. 1087.
Rosenthal & Bros., Samuel, New York, N. Y. "The Adamant Suit." (For Boy's Clothing.) No. 2,912; Dec. 12; Gaz. vol. 173; p. 582.
Roxford Knitting Company, Philadelphia, Pa. "Plan for a Season." (For Men's Knitted Underwear.) No. 2,770; May 23; Gaz. vol. 166; p. 984.
Roxford Knitting Company, Philadelphia, Pa. "Turkish Bath Scene." (For Men's Knitted Underwear.) No. 2,771; May 23; Gaz. vol. 166; p. 984.
Roxford Knitting Company, Philadelphia, Pa. "As Trade Conditions Are Now." (For Men's Knitted Underwear.) No. 2,794; July 11; Gaz. vol. 168; p. 523.
Roxford Knitting Company, Philadelphia, Pa. "How Are You Meeting." (For Men's Knitted Underwear.) No. 2,795; July 11; Gaz. vol. 168; p. 523.
Roxford Knitting Co., Philadelphia, Pa. "August Roxford Man." (For Knitted Underwear for Men and Boys.) No. 2,901; Nov. 21; Gaz. vol. 172; p. 821.
Roxford Knitting Co., Philadelphia, Pa. "September Roxford Man." (For Knitted Underwear for Men and Boys.) No. 2,902; Nov. 21; Gaz. vol. 172; p. 821.
Rudolph Wurlitzer Co., The, Cincinati, Ohio. "The Victor Victrola." (For Talking-Machines.) No. 2,825; Aug. 29; Gaz. vol. 169; p. 1183.
Rumford Chemical Works, Providence, R. I. "Yeast Powder." (For Yeast-Powder.) No. 2,911; Dec. 12; Gaz. vol. 173; p. 582.
Rumsey & Co. Ltd., Seneca Falls, N. Y. "Trade Follows the Flag." (For Pumps.) No. 2,899; Nov. 21; Gaz. vol. 172; p. 821.
Safe-Cabinet Co., The, Marietta and Cincinnati, Ohio. "The Safe Cabinet." (For Office Equipments.) No. 2,857; Oct. 10; Gaz. vol. 171; p. 480.
Safe-Cabinet Company, The, Marietta and Cincinnati, Ohio. "The Safe-Cabinet." (For Safe-Cabinets.) No. 2,737; Apr. 25; Gaz. vol. 165; p. 970.
Sanitary Milk Company, The, Canton, Ohio. "The Sanitary Milk Co. Canton, O. Ice Cream." (For Ice-Cream.) No. 2,887; Nov. 21; Gaz. vol. 172; p. 821.
Sanitary Stove Mfg. Co., The, St. Louis, Mo. "Sanistove." (For Stoves and Ranges.) No. 2,826; Aug. 29; Gaz. vol. 169; p. 1183.
Schnibbe, Richard, Brooklyn, N. Y. "A Still Life of Smoked Fish." (For Smoked Fish.) No. 2,841; Sept. 26; Gaz. vol. 170; p. 926.
Schnibbe, Richard, Brooklyn, N. Y. "A Still Life of Hams, Bologna and Bacon." (For Smoked Hams, Bolognas, and Bacons.) No. 2,842; Sept. 26; Gaz. vol. 170; p. 926.
Scott & Bowne, Bloomfield, N. J. "The Standard Body-Builder." (For Scott's Emulsion.) No. 2,706; Mar. 7; Gaz. vol. 164; p. 248.
Scott & Bowne, Bloomfield, N. J. "What Makes the Ripple of Dimples Around the World." (For Scott's Emulsion.) No. 2,848; Oct. 3; Gaz. vol. 171; p. 212.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Shredded Wheat With Peaches." (For Shredded Wheat.) No. 2,682; Jan. 17; Gaz. vol. 162; p. 781.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Shredded Wheat With Strawberries." (For Shredded Wheat.) No. 2,683; Jan. 17; Gaz. vol. 162; p. 781.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Shredded Wheat With Bananas." (For Shredded Wheat.) No. 2,684; Jan. 17; Gaz. vol. 162; p. 781.
Shredded Wheat Company, The, Niagara Falls, N. Y. "The Only Cereal Food Made in Biscuit Form." (For Shredded-Wheat Biscuit.) No. 2,744; May 9; Gaz. vol. 166; p. 510.
Shredded Wheat Company, The, Niagara Falls, N. Y. "When You Eat Strawberries." (For Shredded-Wheat Biscuit.) No. 2,745; May 9; Gaz. vol. 166; p. 510.
Shredded Wheat Company, The, Niagara Falls, N. Y. "On Guard!" (For Shredded-Wheat Biscuit.) No. 2,754; May 23; Gaz. vol. 166; p. 984.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Life-Savers." (For Shredded-Wheat Biscuit.) No. 2,755; May 23; Gaz. vol. 166; p. 984.

Alphabetical list of registrants of prints—Continued.

Shredded Wheat Company, The, Niagara Falls, N. Y. "When the Cook Leaves." (For Shredded-Wheat Biscuit.) No. 2,756; May 23; Gaz. vol. 166; p. 984.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Shredded Wheat with Bananas." (For Shredded-Wheat Biscuit.) No. 2,757; May 23, Gaz. vol. 166; p. 984.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Shredded Wheat with Hot Milk." (For Shredded-Wheat Biscuit.) No. 2,758; May 23; Gaz. vol. 166; p. 984.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Shredded Wheat with Peaches." (For Shredded-Wheat Biscuit.) No. 2,759; May 23; Gaz. vol. 166; p. 984.
Shredded Wheat Company, The, Niagara Falls, N. Y. "A Perfect Whole Wheat Food." (For Shredded-Wheat Biscuit.) No. 2,760; May 23; Gaz. vol. 166; p. 984.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Time for Shredded Wheat and Strawberries." (For Shredded-Wheat Biscuit.) No. 2,761; May 23; Gaz. vol. 166; p. 984.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Shredded Wheat With Strawberries." (For Shredded-Wheat Biscuit.) No. 2,777; June 13; Gaz. vol. 167; p. 512.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Shredded Wheat With Milk Or Cream." (For Shredded-Wheat Biscuit.) No. 2,778; June 13; Gaz. vol. 167; p. 512.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Shredded Wheat with Baked Apple and Cream." (For Shredded-Wheat Biscuit.) No. 2,784; June 20; Gaz. vol. 167; p. 761.
Shredded Wheat Company, The, Niagara Falls, N. Y. "Our Two-Million-Dollar Kitchen." (For Shredded-Wheat Biscuit.) No. 2,786; June 27; Gaz. vol. 167; p. 980.
Southern Cotton Oil Co., The, New York, N. Y. "Snowdrift." (For a Substitute for Butter.) No. 2,888; Nov. 21; Gaz. vol. 172; p. 821.
St. Charles Condensing Co., St. Charles, Ill. "Goody, It's St. Charles!" (For Evaporated Milk.) No. 2,699; Feb. 21; Gaz. vol. 163; p. 726.
Standard Milling Co., New York, N. Y. "Satisfaction." (For Flour.) No. 2,704; Mar. 7; Gaz. vol. 164; p. 248.
Stickney & Poor Spice Co., Boston, Mass. "S. & P. Color Tablets." (For Color-Tablets.) No. 2,830; Sept. 5; Gaz. vol. 170; p. 242.
Strauss & Co., London, England. "Saluting the Veterans." (For Straight Scotch Whisky.) No. 2,725; Apr. 11; Gaz. vol. 165; p. 472.
Sugden, John L., Detroit, Mich. "Thomas Techinal Service." (For Automobiles.) No 2,840; Sept. 12; Gaz vol. 170; p 480.
Tablet and Ticket Co., The, Chicago, Ill.; New York, N. Y., and San Francisco, Cal. "Post Toasties." (For Cereal Food Products.) No. 2,711; Mar. 21; Gaz. vol 164; p. 738.
Townsend & Co., E. M., New York, N. Y. "Drummer Boy." (For Stockings.) No. 2,729; Apr. 11; Gaz. vol. 165; p. 472.
Udolpho Wolfe Co., The, New York, N. Y. "Wolfe's Schnapps." (For Schnapps.) No. 2,828; Sept. 5; Gaz. vol. 170; p. 242.
United Drug Company, Boston, Mass. "Rexall." (For Hair-Tonic.) No. 2,921; Dec. 19; Gaz. vol. 173; p. 861.
United Fruit Company, Boston, Mass. "United Fruit Co. Bananas From Fruit Dispatch Co. Importers and Distributors." (For Bananas.) No. 2,740; May 2; Gaz. vol. 166; p. 249.
United Fruit Company, Boston, Mass. "United Fruit Company Bananas." (For Bananas.) No. 2,753; May 23; Gaz. vol. 166; p. 984.
W. F. Powers Company, The, New York, N. Y. "Neapolitan Ice Cream." (For Ice-Cream.) No. 2,797; July 18; Gaz. vol. 168; p. 786.
W. S. Quinby Company, Boston, Mass. "La Touraine The Perfect Coffee." (For Coffee.) No. 2,864; Oct. 24; Gaz. vol. 171; p. 982.
Williams, Hoyt & Co., Rochester, N. Y. "Agency for Pla-Mate Shoes." (For Boots and Shoes.) No. 2,843; Sept. 26; Gaz. vol. 170; p. 926.
Wilmot, John R., Marquette, Ill. "Why Make Smoke?" (For a Direct-Gas Furnace Smoke-Prevention Appliance.) No. 2,748; May 9; Gaz. vol. 166; p. 510.
Wise Brothers, New York, N. Y. "The Little One." (For Rompers and Play-Suits.) No. 2,743; May 2; Gaz. vol. 166; p. 249.
Witt, William A., Chicago, Ill. "Real Cake Ice Cream Cones." (For Real-Cake Ice-Cream Cones.) No. 2,798; July 18; Gaz. vol. 168; p. 786.
Young, Wilbur F., Springfield, Mass. "Absorbine Before and After." (For Horse-Liniment.) No. 2,789; June 27; Gaz. vol. 167; p. 980.
Zahner and Schiess and Company, Herisau, Switzerland, and New York, N. Y. "Miss Z. Andess." (For Embroideries.) No. 2,802; July 18; Gaz. vol. 168; p. 786.

DISCLAIMERS.

Church, Edmund S., Oak Park, Ill.; disclaimer filed by assignee, The National Cash Register Company. Mechanical cashier. No. 985,145; disclaimer filed Sept. 11, 1911; Gaz. vol. 170; p. 487.

Fellows, Olin S., Middletown, N. Y.; disclaimer filed by patentee. Means for removing superfluous solder from sheet-metal cans. No. 595,705; disclaimer filed June 12, 1911; Gaz. vol. 167; p. 767.

Ferranti, Sebastian Z. de, Grindleford, near Sheffield, England; disclaimer filed by patentee. Spinning, doubling, and twisting machine. No. 970,617; disclaimer filed Apr. 21, 1911; Gaz. vol. 166; p. 1.

Krantz, Hubert, Brooklyn, N. Y.; disclaimer filed by the patentee and assignee, H. Krantz Manufacturing Company. Electrical panel-board. No. 705,850; disclaimer filed Nov. 9, 1911; Gaz. vol. 172; p. 265.

Remané, Hermann, and Eugene Hurwitz, Berlin, and Emil Gottschalk, Charlottenburg, Germany; disclaimer filed by the assignee, by mesne assignments, General Electric Company. Electric glow-lamp. No. 919,381; disclaimer filed Apr. 19, 1911; Gaz. vol. 165; p. 735.

Strand, John B., John H. Haugen, William Coesfeld, and George Fischrupp, Chicago, Ill.; disclaimer filed by the patentees. Sofa-bed. No. 887,982; disclaimer filed Apr. 7, 1911; Gaz. vol. 165; p. 479.

Takamine, Jokichi, New York, N. Y.; disclaimer filed by assignee, Parke, Davis & Co. Glandular extractive compound. No. 753,177; disclaimer filed July 18, 1911; Gaz. vol. 168; p. 793.

Wollensak, Andrew, Rochester, N. Y.; disclaimer filed by assignee, Wollensak Optical Company. Photographic shutter. No. 679,134; disclaimer filed Nov. 22, 1911; Gaz. vol. 173; p. 289.

ALPHABETICAL LIST OF INVENTIONS.

[Abbreviations: "Sp."=Monthly Volume of Specifications; "Gaz."=Official Gazette.]

Abdominal supporter. G. M. Champagne. No. 1,003,336; Sept. 12; Sp. p. 2520; Gaz. vol. 170; p. 434.
Abradant attachment. G. O. Beasley. No. 1,008,775; Nov. 14; Sp. p. 2597; Gaz. vol. 172; p. 436.
Abrading device. C. E. Graham. No. 1,003,448; Sept. 19; Sp. p. 2750; Gaz. vol. 170; p. 504.
Abrading-machine. J. W. Butler. No. 1,011,573; Dec. 12; Sp. p. 2663; Gaz. vol. 173; p. 447.
Abrading-stones, Dressing-tool for. W. J. Abraham. No. 990,027; Apr. 18; Sp. p. 3722; Gaz. vol. 165; p. 644.
Abrasive apparatus. O. C. Wysong. No. 994,358; June 6; Sp. p. 529; Gaz. vol. 167; p. 91.
Abrasive tool. J. R. Thomas. No. 1,012,479; Dec. 19; Sp. p. 4616; Gaz. vol. 173; p. 791.
Accelerometer. H. E. Wimperis. No. 982,336; Jan. 24; Sp. p. 4780; Gaz. vol. 162; p. 828.
Accenting device. A. Thomas, Jr. No. 1,012,932; Dec. 26; Sp. p. 5660; Gaz. vol. 173; p. 994.
Accidents, Means for preventing. A. J. Meier. No. 984,587; Feb. 21; Sp. p. 2902; Gaz. vol. 163; p. 516.
Account and cash register, Combined. P. A. McCaskey. No. 1,001,875; Aug. 29; Sp. p. 5725; Gaz. vol. 169; p. 1046.
Account-keeping device. W. E. Myer. No. 1,013,047; Dec. 26; Sp. p. 5904; Gaz. vol. 173; p. 1033.
Account-register. A. F. Staples. No. 1,007,613; Oct. 31; Sp. p. 6730; Gaz. vol. 171; p. 1211.
Account-register. F. F. Dorsey. No. 1,007,648; Oct. 31; Sp. p. 6804; Gaz. vol. 171; p. 1222.
Account-register. A. F. Staples. No. 1,008,386; Nov. 14; Sp. p. 1678; Gaz. vol. 172; p. 299.
Accounts, Pocket-recorder for expense-. A. W. Hayes. No. 991,300; May 2; Sp. p. 1014; Gaz. vol. 166; p. 171.
Accounting system, Cost-. E. C. Albree. No. 980,391; Jan. 3; Sp. p. 434; Gaz. vol. 162; p. 75.
Acetates, Making. H. O. Chute and K. P. McElroy. No. 1,002,034; Aug. 29; Sp. p. 6068; Gaz. vol. 169; p. 1098.
Acetyl cellulose compounds, Making. O. Bonhoeffer and H. Guntrum. No. 987,692; Mar. 28; Sp. p. 4083; Gaz. vol. 164; p. 749.
Acetyl-cellulose sheet. C. Mijnssen. No. 1,005,454; Oct. 10; Sp. p. 1927; Gaz. vol. 171; p. 340.
Acetyl cellulose, Solvent for. T. Becker. No. 988,965; Apr. 11; Sp. p. 1410; Gaz. vol. 165; p. 250.
Acetyl cellulose to enhance its elasticity and its power of absorption for dyestuffs, Treatment of. E. Knoevenagel. No. 981,574; Jan. 10; Sp. p. 3148; Gaz. vol. 162; p. 514.
Acetylene, Dissociating. J. M. Morehead. No. 986,489; Mar. 14; Sp. p. 1562; Gaz. vol. 164; p. 278.
Acetylene generating and storing apparatus. C. F. Jenkins. No. 1,010,266; Nov. 28; Sp. p. 5729; Gaz. vol. 172; p. 1025.
Acetylene-generator. F. B. Ray. No. 982,690; Jan. 24; Sp. p. 5502; Gaz. vol. 162; p. 949.
Acetylene-generator. L. Janecek. No. 991,621; May 9; Sp. p. 1709; Gaz vol. 166; p. 314.
Acetylene-generator. A. S. Phelps and J. N. J. Hilbert. No. 1,008,058; Nov. 7; Sp. p. 886; Gaz. vol. 172; p. 142.
Acetylene generator and torch. A. F. J. Johnson, now A. F. Jenkins. No. 1,011,436; Dec. 12; Sp. p. 2320; Gaz. vol. 173; p. 396.
Acetylene-generators, Carbid-indicator for. H. C. Buschmann. No. 1,006,826; Oct. 24; Sp. p. 5002; Gaz. vol. 171; p. 885.
Acetylene, Storage of. M. C. Whitaker and F. G. Metzger. No. 1,003,559; Sept. 19; Sp. p. 2974; Gaz. vol. 170; p. 543.
Acetylene tetrachlorid, Producing. E. Hoefer and M. Mugdan. No. 985,528; Feb. 28; Sp. p. 4948; Gaz. vol. 163; p. 876.
Acid, Aminobenzoylaminobenzoyl-2-amino-5-naphthol-7-sulfonic. W. Neelmeier. No. 994,420; June 6; Sp. p. 661; Gaz. vol. 167; p. 113.
Acid, Aminobenzoylaminobenzoyl-2-amino-5-naphthol-7-sulfonic. W. Neelmeier. (Reissue.) No. 13,304; Oct. 31; Sp. p. 6838; Gaz. vol. 171; p. 1230.
Acid and electrolytic iron, Making sulfuric. A. S. Ramage. No. 984,703; Feb. 21; Sp. p. 3159; Gaz. vol. 163; p. 559.
Acid and metal peroxid, Making nitric or other oxynitrogen. H. S. Blackmore. No. 982,466; Jan. 24; Sp. p. 5072; Gaz. vol. 162; p. 875.
Acid and obtaining such bodies 4.4'-dibrom-diphenyl-disulfid-2.2'-dicarboxylic. E. Münch. No. 1,003,289; Sept. 12; Sp. p. 2427; Gaz. vol. 170; p. 418.
Acid and other oxygenated carbon products, Manufacture of oxalic. A. Deiss. No. 999,551; Aug. 1; Sp. p. 709; Gaz. vol. 169; p. 122.
Acid and other vapors, Dehydrating nitric-. H. Pauling. No. 993,868; May 30; Sp. p. 6521; Gaz. vol. 166; p. 1175.
Acid, Apparatus for making sulfuric. R. Moritz. No. 981,103; Jan. 10; Sp. p. 2116; Gaz. vol. 162; p. 350.
Acid, Apparatus for the manufacture of sulfuric. O. Proelss. No. 989,537; Apr. 11; Sp. p. 2650; Gaz. vol. 165; p. 446.
Acid compounds, Preparing fatty-. J. W. Blagden and R. Müller. No. 1,000,487; Aug. 15; Sp. p. 2715; Gaz. vol. 169; p. 504.
Acid-concentrating apparatus. E. B. Gray. No. 1,005,425; Oct. 10; Sp. p. 1865; Gaz. vol. 171; p. 330.
Acid, Concentrating nitric. E. Brauer. No. 1,008,690; Nov. 14; Sp. p. 2404; Gaz. vol. 172; p. 406.
Acid, Concentrating nitric. R. Sohlman and C. O. Lundholm. No. 1,009,197; Nov. 21; Sp. p. 3477; Gaz. vol. 172; p. 614.
Acid, Derivative of phenylalkylacetic. W. Kropp and L. Taub. No. 996,096; June 27; Sp. p. 4353; Gaz. vol. 167; p. 788.
Acid derivatives and making the same, Esters of salicylic-. N. Sulzberger and L. Spiegel. No. 987,771; Mar. 28; Sp. p. 4256; Gaz. vol. 164; p. 776.
Acid di-iodid, Tariric. A. L. Arnaud and S. Posternak. No. 982,656; Jan. 24; Sp. p. 5435; Gaz. vol. 162; p. 938.
Acid electrolyte used in refining copper, Process and apparatus for purifying. C. H. Aldrich and J. K. Bryan. No. 991,685; May 9; Sp. p. 1863; Gaz. vol. 166; p. 337.
Acid ferric arsen-tartrate. C. Sorger. No. 995,383; June 13; Sp. p. 2793; Gaz. vol. 167; p. 476.
Acid ferric phosphor tartrate. C. Sorger. No. 995,038; June 13; Sp. p. 2068; Gaz. vol. 167; p. 362.
Acid from acid sludge, Recovering sulfuric. J. S. and A. A. Blowski. No. 1,010,221; Nov. 28; Sp. p. 5645; Gaz. vol. 172; p. 1010.
Acid, Kessler apparatus for concentrating sulfuric. J. Teisset and J. Prat. No. 993,125; May 23; Sp. p. 4933; Gaz. vol. 166; p. 893.
Acid, Manufacture of alkali earth salts of hydroxylamindisulfonic. F. Raschig. No. 1,010,177; Nov. 28; Sp. p. 5559; Gaz. vol. 172; p. 996.
Acid, Manufacture of harmless combinations of sulfocyanic. J. Nerking. No. 1,010,447; Dec. 5; Sp. p. 87; Gaz. vol. 173; p. 17.
Acid, Manufacture of harmless combinations of sulfocyanic. J. Nerking. No. 1,011,075; Dec. 5; Sp. p. 1472; Gaz. vol. 173; p. 234.
Acid, Manufacture of harmless combinations of sulfocyanic. J. Nerking. No. 1,011,076; Dec. 5; Sp. p. 1473; Gaz. vol. 173; p. 234.
Acid, Manufacture of sulfuric. C. Opl. No. 1,012,421; Dec. 19; Sp. p. 4512; Gaz. vol. 173; p. 772.
Acid of the phenylaminoanthraquinone series, Halogenized carboxylic. F. Ullmann. No. 993,915; May 30; Sp. p. 6602; Gaz. vol. 166; p. 1190.
Acid or alkali resisting articles, Making. I. L. Roberts. No. 992,256; May 16; Sp. p. 3062; Gaz. vol. 166; p. 559.
Acid, Phenyl esters of alpha-iodoisovaleric. R. Berendes. No. 994,494; June 6; Sp. p. 796; Gaz. vol. 167; p. 136.
Acid, Producing beta-methyladipic. F. Hofmann and C. Coutelle. No. 991,719; May 9; Sp. p. 1937; Gaz. vol. 166; p. 348.
Acid, Producing beta-methyladipic. F. Hofmann and C. Coutelle. No. 991,720; May 9; Sp. p. 1938; Gaz. vol. 166; p. 348.
Acid, Production of compounds of persulfuric. G. Teichner. No. 981,900; Jan. 17; Sp. p. 3849; Gaz. vol. 162; p. 649.
Acids and making same, Derivative of oxyarylarsinic. P. Ehrlich and A. Bertheim. No. 986,148; Mar. 7; Sp. p. 812; Gaz. vol. 164; p. 132.
Acids, Concentrating. R. Sohlman and W. A. Wilson. No. 1,009,196; Nov. 21; Sp. p. 3475; Gaz. vol. 172; p. 614.
Acids, Manufacture of fatty. G. Bottaro. No. 987,426; Mar. 21; Sp. p. 3518; Gaz. vol. 164; p. 629.
Acids or their glycerids with hydrogen, Saturating fatty. E. C. Kayser. No. 1,004,035; Sept. 26; Sp. p. 4071; Gaz. vol. 170; p. 734.
Acids or their glycerids with hydrogen, Saturating fatty. E. C. Kayser. No. 1,008,474; Nov. 14; Sp. p. 1930; Gaz. vol. 172; p. 330.
Acids, Raising the melting-points of fatty. A. Solomonoff. No. 1,002,186; Aug. 29; Sp. p. 6343; Gaz. vol. 169; p. 1146.
Acoustic diaphragm. W. W. Young. No. 983,416; Feb. 7; Sp. p. 332; Gaz. vol. 163; p. 56.
Acoustic diaphragm. J. H. Massey. No. 1,001,968; Aug. 29; Sp. p. 5941; Gaz. vol. 169; p. 1076.

Alphabetical list of inventions—Continued.

Acoustic diaphragms, Making. W. W. Young. No. 982,027; Jan. 17; Sp. p. 4149; Gaz. vol. 162; p. 692.
Acoustical instrument. L. Lumiere. No. 986,477; Mar. 14; Sp. p. 1526; Gaz. vol. 164; p. 275.
Acrobatic performances, Apparatus for. C. G. Raschetta. No. 1,001,300; Aug. 22; Sp. p. 4516; Gaz. vol. 169; p. 819.
Acyl derivative of morphin. H. Hoerlein. No. 994,465; June 6; Sp. p. 740; Gaz. vol. 167; p. 127.
Adding and listing machine. J. P. Harrison, Jr. No. 989,353; Apr. 11; Sp. p. 2250; Gaz. vol. 165; p. 382.
Adding and listing machine. W. J. Kilpatrick. No. 996,260; June 27; Sp. p. 4739; Gaz. vol. 167; p. 843.
Adding and listing machine. G. B. Putnam. No. 998,716; July 25; Sp. p. 4604; Gaz. vol. 168; p. 839.
Adding and listing machine. J. G. Vincent. No. 998,727; July 25; Sp. p. 4644; Gaz. vol. 168; p. 843.
Adding and listing machine. W. P. Shattuck. No. 1,007,740; Nov. 7; Sp. p. 184; Gaz. vol. 172; p. 31.
Adding and recording machine. C. K. Pickles. No. 1,005,779; Oct. 10; Sp. p. 2638; Gaz. vol. 171; p. 455.
Adding and registering device. W. H. Goodin. No. 1,007,350; Oct. 31; Sp. p. 6151; Gaz. vol. 171; p. 1122.
Adding device. B. R. Scott. No. 987,919; Mar. 28; Sp. p. 4595; Gaz. vol. 164; p. 827.
Adding device. E. C. Dilworth. No. 990,240; Apr. 25; Sp. p. 4195; Gaz. vol. 165; p. 748.
Adding-machine. C. Thompson and C. W. Newton. No. 982,901; Jan. 31; Sp. p. 5986; Gaz. vol. 162; p. 1049.
Adding-machine. J. G. Vincent. No. 983,009; Jan. 31; Sp. p. 6222; Gaz. vol. 162; p. 1084.
Adding-machine. G. B. Putnam. No. 985,284; Feb. 28; Sp. p. 4392; Gaz. vol. 163; p. 792.
Adding-machine. H. L. Fisher and J. G. Vincent. No. 988,700; Apr. 4; Sp. p. 871; Gaz. vol. 165; p. 141.
Adding-machine. C. Wales. No. 990,174; Apr. 18; Sp. p. 4015; Gaz. vol. 165; p. 692.
Adding-machine, &c. A. H. Ellis. No. 996,402; June 27; Sp. p. 5072; Gaz. vol. 167; p. 893.
Adding-machine. A. W. Clauder. No. 996,976; July 4; Sp. p. 789; Gaz. vol. 168; p. 129.
Adding-machine. C. L. Kelley. No. 997,065; July 4; Sp. p. 1001; Gaz. vol. 168; p. 160.
Adding-machine. J. S. Whitehurst. No. 997,528; July 11; Sp. p. 1927; Gaz. vol. 168; p. 345.
Adding-machine. C. B. Corell. No. 999,011; July 25; Sp. p. 5300; Gaz. vol. 168; p. 943.
Adding-machine. F. C. Rinsche. No. 1,001,688; Aug. 29; Sp. p. 5316; Gaz. vol. 169; p. 982.
Adding-machine. R. A. Graber. No. 1,002,262; Sept. 5; Sp. p. 170; Gaz. vol. 170; p. 21.
Adding-machine. F. J. Tillman. No. 1,003,672; Sept. 19; Sp. p. 3233; Gaz. vol. 170; p. 583.
Adding-machine. A. Hoch. No. 1,004,877; Oct. 3; Sp. p. 714; Gaz. vol. 171; p. 117.
Adding-machine. A. Wiberg. No. 1,007,508; Oct. 31; Sp. p. 6501; Gaz. vol. 171; p. 1176.
Adding-machine. A. Bordt. No. 1,012,976; Dec. 26; Sp. p. 5747; Gaz. vol. 173; p. 1009.
Adding-machine attachment. C. L. Downer. No. 980,765; Jan. 3; Sp. p. 1255; Gaz. vol. 162; p. 202.
Adding-machine computing attachment. A. L. Landis. No. 987,890; Mar. 28; Sp. p. 4522; Gaz. vol. 164; p. 817.
Adding-machine dash-pot mechanism. F. A. Niemann. No. 1,012,698; Dec. 26; Sp. p. 5098; Gaz. vol. 173; p. 913.
Adding-machine for cash-registers, &c. F. L. Fuller. No. 981,633; Jan. 17; Sp. p. 3274; Gaz. vol. 162; p. 556.
Adding-machine keyboard mechanism. J. G. Vincent. No. 1,002,341; Sept. 5; Sp. p. 374; Gaz. vol. 170; p. 53.
Adding-machine operating mechanism. F. R. Hoyt. No. 1,005,774; Oct. 10; Sp. p. 2628; Gaz. vol. 171; p. 453.
Adding-machine power-drive. J. G. Vincent. No. 989,670; Apr. 18; Sp. p. 2957; Gaz. vol. 165; p. 521.
Adding-machine power-drive. J. G. Vincent. No. 990,317; Apr. 25; Sp. p. 4369; Gaz. vol. 165; p. 774.
Adding-machine register. J. A. Smith. No. 1,012,463; Dec. 19; Sp. p. 4588; Gaz. vol. 173; p. 786.
Adding-machine resetting device. J. A. Cheape. No. 983,682; Feb. 7; Sp. p. 925; Gaz. vol. 163; p. 146.
Adding-machine transfer mechanism. G. J. Barrett. No. 994,238; June 6; Sp. p. 286; Gaz. vol. 167; p. 49.
Adding-machines and like devices, Rotary retarding mechanism for. G. J. Barrett. No. 1,003,414; Sept. 19; Sp. p. 2667; Gaz. vol. 170; p. 491.
Adding or calculating apparatus. W. H. Browning. No. 1,010,227; Nov. 28; Sp. p. 5655; Gaz. vol. 172; p. 1012.
Adding slate and key, Perpetual-. W. B. Herbert. No. 993,680; May 30; Sp. p. 6142; Gaz. vol. 166; p. 1111.
Address-plate. H. P. Elliott. No. 1,000,501; Aug. 15; Sp. p. 2749; Gaz. vol. 169; p. 509.
Addressing and printing mechanism and the like, Paper-feeding mechanism for. U. G. Lee. No. 1,002,529; Sept. 5; Sp. p. 776; Gaz. vol. 170; p. 114.
Addressing-machine. E. G. Ernst. No. 991,283; May 2; Sp. p. 978; Gaz. vol. 166; p. 165.
Addressing-machine, Hand. G. A. Transue. No. 1,005,367; Oct. 10; Sp. p. 1741; Gaz. vol. 171; p. 310.
Addressing-machines, Delivery mechanism for. S. C. Cox. No. 1,001,507; Aug. 22; Sp. p. 4920; Gaz. vol. 169; p. 889.
Addressing-plate. U. G. Lee. No. 982,076; Jan. 17; Sp. p. 4254; Gaz. vol. 162; p. 708.
Adhesive-applying apparatus. W. A. Lindenfelser. No. 1,000,096; Aug. 8; Sp. p. 1864; Gaz. vol. 169; p. 337.
Adhesive fabric. F. J. Gleason. No. 997,125; July 4; Sp. p. 1108; Gaz. vol. 168; p. 180.
Adhesive plaster. M. Taylor. No. 986,655; Mar. 14; Sp. p. 1916; Gaz. vol. 164; p. 337.
Adhesive stick. A. W. Harrington, Jr. No. 990,354; Apr. 25; Sp. p. 4446; Gaz. vol. 165; p. 787.
Adjustable bracket. J. Knape. No. 982,279; Jan. 24; Sp. p. 4673; Gaz. vol. 162; p. 808.
Adjustable bracket. O. C. White. No. 999,283; Aug. 1; Sp. p. 171; Gaz. vol. 169; p. 32.
Adjustable bracket. A. Vanderveld. No. 1,005,375; Oct. 10; Sp. p. 1757; Gaz. vol. 171; p. 313.
Adjustable bracket. J. Knape. No. 1,008,720; Nov. 14; Sp. p. 2467; Gaz. vol. 172; p. 417.
Adjustable bracket. P. White. No. 1,010,994; Dec. 5; Sp. p. 1310; Gaz. vol. 173; p. 208.
Adjustable chair. A. T. Palmer. No. 1,005,064; Oct 3; Sp. p. 1066; Gaz. vol. 171; p. 179.
Adjustable chair. A. Stone. No. 1,007,813; Nov. 7; Sp. p. 372; Gaz. vol. 172; p. 58.
Adjustable clamp. W. Hales. No. 1,011,950; Dec. 19; Sp. p. 3488; Gaz. vol. 173; p. 611.
Adjustable coupling. J. C. Harris. No. 989,779; Apr. 18; Sp. p. 3188; Gaz. vol. 165; p. 560.
Adjustable cushion. J. Smith. No. 1,007,985; Nov. 7; Sp. p. 745; Gaz. vol. 172; p. 117.
Adjustable handle for saw-frames, &c. J. A. Leland. No. 992,218; May 16; Sp. p. 2936; Gaz. vol. 166; p. 546.
Adjustable screen and curtain attachment. W. A. Ray. No. 997,849; July 11; Sp. p. 2670; Gaz. vol. 168; p. 458.
Adjustable seat or the like. W. H. Irvine. No. 998,689; July 25; Sp. p. 4551; Gaz. vol. 168; p. 829.
Adjustable stand. W. H. Martin. No. 994,598; June 6; Sp. p. 1029; Gaz. vol. 167; p. 171.
Adjustable stand and burner. I. Yassenoff. No. 989,747; Apr. 18; Sp. p. 3118; Gaz. vol. 165; p. 548.
Adjustable table. J. G. Schreiber. No. 990,066; Apr. 18; Sp. p. 3791; Gaz. vol. 165; p. 656.
Adjustable table. E. L. Goding. No. 996,236; June 27; Sp. p. 4688; Gaz. vol. 167; p. 835.
Adjustable ventilator. F. J. and J. R. Baldwin. No. 997,947; July 18; Sp. p. 2912; Gaz. vol. 168; p. 535.
Advertiser, Automatically-operated illuminated. L. L. Mack and R. D. Horton. No. 992,366; May 16; Sp. p. 3324; Gaz. vol. 166; p. 598.
Advertising adding-pocket. G. T. Young. No. 986,416; Mar. 7; Sp. p. 1387; Gaz. vol. 164; p. 224.
Advertising apparatus. A. L. Howe. No. 1,003,745; Sept. 19; Sp. p. 3404; Gaz. vol. 170; p. 607.
Advertising apparatus. J. W. Haag. No. 1,004,163; Sept. 26; Sp. p. 4400; Gaz. vol. 170; p. 779.
Advertising apparatus. D. W. Troy. No. 1,004,503; Sept. 26; Sp. p. 5078; Gaz. vol. 170; p. 894.
Advertising apparatus. R. A. Harris. No. 1,008,260; Nov. 7; Sp. p. 1316; Gaz. vol. 172; p. 215.
Advertising, Card. W. L. Hopkins. No. 987,989; Mar. 28; Sp. p. 4781; Gaz. vol. 164; p. 852.
Advertising-chair. J. T. O'Connor. No. 993,397; May 30; Sp. p. 5498; Gaz. vol. 166; p. 1013.
Advertising-counter. H. O., L. M., and W. H. Fritts. No. 993,237; May 23; Sp. p. 5151; Gaz. vol. 166; p. 927.
Advertising device. F. Evans. No. 982,355; Jan. 24; Sp. p. 4820; Gaz. vol. 162; p. 835.
Advertising device. J. Weener and S. W. Gordon. No. 985,383; Feb. 28; Sp. p. 4594; Gaz. vol. 163; p. 824.
Advertising device. C. W. Whaley. No. 985,484; Feb. 28; Sp. p. 4853; Gaz. vol. 163; p. 861.
Advertising device. R. and G. A. Langstaff. No. 987,245; Mar. 21; Sp. p. 3140; Gaz. vol. 164; p. 568.
Advertising device. J. Gruber. No. 989,598; Apr. 18; Sp. p. 2814; Gaz. vol. 165; p. 497.
Advertising device. F. A. Stadler. No. 990,918; May 2; Sp. p. 195; Gaz. vol. 166; p. 35.
Advertising device. G. M. and W. R. Guerrant. No. 993,296; May 23; Sp. p. 5269; Gaz. vol. 166; p. 945.
Advertising device. J. Buckley. No. 993,346; May 30; Sp. p. 5392; Gaz. vol 166; p. 996.
Advertising device. H. A. Armstrong. No. 1,000,318; Aug. 8; Sp. p. 2321; Gaz. vol. 169; p. 412.
Advertising device. G H. Schanck. No. 1,000,952; Aug. 15; Sp. p. 3728; Gaz. vol. 169; p. 668.
Advertising device. H. R. Kiessig. No. 1,003,272; Sept. 12; Sp. p. 2393; Gaz. vol. 170; p. 412.
Advertising device. R. Klotz. No. 1,004,660; Oct. 3; Sp. p. 232; Gaz. vol. 171; p. 41.
Advertising device. J. H Goodier. No. 1,007,194; Oct. 31; Sp. p. 5843; Gaz. vol. 171; p. 1066.
Advertising device. A. G. France. No. 1,008,594; Nov. 14; Sp. p. 2192; Gaz. vol. 172; p. 374.
Advertising device, Automatic. E. A. Huckle. No. 1,006,480; Oct. 24; Sp. p. 4241; Gaz. vol. 171; p. 762.
Advertising device, Changeable-. A. G. Rengert. No. 1,009,574; Nov. 21; Sp. p. 4346; Gaz. vol. 172; p. 747.
Advertising device, Electrical. B. A. Neagle. No. 994,867; June 13; Sp. p. 1703; Gaz. vol. 167; p. 304.

Alphabetical list of inventions—Continued.

Advertising device for stamping streets or pavements. O. S. Beck. No. 994,971; June 13; Sp. p. 1932; Gaz. vol. 167; p. 339.
Advertising device, Live-motion. J. F. Medvecky and J. B. Kauser. No. 982,685; Jan. 24; Sp. p. 5494; Gaz. vol. 162; p. 947.
Advertising device or toy. W. J. Bernett. No. 985,970; Mar. 7; Sp. p. 461; Gaz. vol. 164; p. 74.
Advertising device, Street-car. C. V. Hill. No. 997,254; July 4; Sp. p. 1376; Gaz. vol. 168; p. 225.
Advertising-exhibitor and phonographic annunciator. G. A. Stafford. No. 998,721; July 25; Sp. p. 4633; Gaz. vol. 168; p. 841.
Advertising-machine. V. L. Helm. No. 989,969; Apr. 18; Sp. p. 3603; Gaz. vol. 165; p. 624.
Advertising-machine. C. H. King, Jr. No. 1,002,588; Sept. 5; Sp. p. 908; Gaz. vol. 170; p. 135.
Advertising medium. G. T. Fielding, Jr. No. 1,010,245; Nov. 28; Sp. p. 5698; Gaz. vol. 172; p. 1018.
Advertising novelty. H. Sievers. No. 994,694; June 6; Sp. p. 1262; Gaz. vol. 167; p. 205.
Advertising-post. F. W. Boyer. No. 983,673; Feb. 7; Sp. p. 906; Gaz. vol. 163; p. 144.
Advertising-poster. G. C. Murphy and J. J. Bolton. No. 985,274; Feb. 28; Sp. p. 4379; Gaz. vol. 163; p. 789.
Aerated liquids from bulk, Apparatus for the delivery of. A. B. Jackson. No. 1,011,963; Dec. 19; Sp. p. 3518; Gaz. vol. 173; p. 616.
Aerating-machine. J. C. F. Lawrence. No. 1,000,182; Aug. 8; Sp. p. 2055; Gaz. vol. 169; p. 366.
Aerial apparatus. G. M. Fowler. No. 981,185; Jan. 10; Sp. p. 2295; Gaz. vol. 162; p. 379.
Aerial apparatus of the heavier-than-air class. J. J. Donnelly. No. 989,490; Apr. 11; Sp. p. 2524; Gaz. vol. 165; p. 427.
Aerial conduit and cable-guard. E. M. Van Nostran. No. 989,212; Apr. 11; Sp. p. 1934; Gaz. vol. 165; p. 335.
Aerial craft. F. N. Spolander. No. 1,012,927; Dec. 26; Sp. p. 5637; Gaz. vol. 173; p. 992.
Aerial machine. J. Humphris. No. 983,233; Jan. 31; Sp. p. 6679; Gaz. vol. 162; p. 1160.
Aerial machine. R. W. Stewart. No. 984,311; Feb. 14; Sp. p. 2306; Gaz. vol. 163; p. 390.
Aerial machine. P. Seiler. No. 994,339; June 6; Sp. p. 487; Gaz. vol. 167; p. 84.
Aerial machine. J. A. Hoffman. No. 995,004; June 13; Sp. p. 2003; Gaz. vol. 167; p. 351.
Aerial machine. E. Losse. No. 995,361; June 13; Sp. p. 2753; Gaz. vol. 167; p. 469.
Aerial machine. G. A. Owen and G. A. Bates. No. 997,001; July 4; Sp. p. 867; Gaz. vol. 168; p. 139.
Aerial machine. H. C. Lobnitz. No. 1,000,273; Aug. 8; Sp. p. 2233; Gaz. vol. 169; p. 397.
Aerial machine. C. Ostermai. No. 1,003,782; Sept. 19; Sp. p. 3483; Gaz. vol. 170; p. 619.
Aerial machine. A. A. Wyckoff. No. 1,006,171; Oct. 17; Sp. p. 3524; Gaz. vol. 171; p. 624.
Aerial machine. C. J. Lake. No. 1,008,479; Nov. 14; Sp. p. 1938; Gaz. vol. 172; p. 331.
Aerial machine. L. B. Goldman. No. 1,009,736; Nov. 28; Sp. p. 4660; Gaz. vol. 172; p. 847.
Aerial machine. R. W. Linville. No. 1,011,454; Dec. 12; Sp. p. 2360; Gaz. vol. 173; p. 403.
Aerial machine. E P. Farum. No. 1,011,767; Dec. 12; Sp. p. 3068; Gaz. vol. 173; p. 513.
Aerial machine. J. R. Froberg. No. 1,012,836; Dec. 26; Sp. p. 5423; Gaz. vol. 173; p. 962.
Aerial machines, Means for supporting. L. Blériot. No. 987,540; Mar. 21; Sp. p. 3736; Gaz. vol. 164; p. 668.
Aerial navigating apparatus. H. Flanagan. No. 999,105; July 25; Sp. p. 5481; Gaz. vol. 168; p. 975.
Aerial navigating device. J. W. Boughton. No. 998,834; July 25; Sp. p. 4890; Gaz. vol. 168; p. 880.
Aerial navigation. J. Means. No. 984,147; Feb. 14; Sp. p. 1929; Gaz. vol. 163, p. 332.
Aerial navigation. J. K. Toles. No. 988,523; Apr. 4; Sp. p. 500; Gaz. vol. 165; p. 80.
Aerial navigation. J. Means. No. 989,022; Apr. 11; Sp. p. 1537; Gaz. vol. 165; p. 269.
Aerial navigation. J. L. Nichols. No. 991,528; May 9; Sp. p. 1494; Gaz. vol. 166; p. 280.
Aerial navigation. M. B Sellers. No. 997,860; July 11; Sp. p. 2693; Gaz. vol. 168; p. 463.
Aerial navigation. P. Peterson. No. 1,006,592; Oct. 24; Sp. p. 4507; Gaz. vol. 171; p. 803.
Aerial-navigation apparatus. J. Ostand. No. 987,819; Mar. 28; Sp p. 4351; Gaz. vol. 164; p. 792.
Aerial-navigation apparatus. J. M. Allèas. No. 991,686; May 9; Sp. p. 1867; Gaz. vol. 166; p. 337.
Aerial-navigation apparatus. Y. Rolland. No. 1,001,309; Aug. 22; Sp. p. 4539; Gaz. vol. 169; p. 823.
Aerial-navigation machine. W. W. Roberts. No. 996,366; June 27; Sp. p. 4999; Gaz. vol. 167; p. 880.
Aerial propeller. S. Lawrence. No. 991,331; May 2; Sp. p. 1084; Gaz. vol. 166; p. 181.
Aerial propeller. J. O. Wrenn. No. 995,512; June 20; Sp. p. 3085; Gaz. vol. 167; p. 549.
Aerial propeller. A. McKenzie. No. 1,001,291; Aug. 22; Sp. p. 4492; Gaz. vol. 169; p. 816.
Aerial propulsion. F. L. Bartelt. No. 1,001,918; Aug. 29; Sp. p. 5827; Gaz. vol. 169; p. 1060.
Aerial tramway. B. MacKenzie. No. 994,944; June 13; Sp. p. 1878; Gaz. vol. 167; p. 330.
Aerial vehicles, Propeller for. R. Wilcke. No. 996,547; June 27; Sp. p. 5375; Gaz. vol. 167; p. 941.
Aerial vessel. W. Wait. No. 996,741; July 4; Sp. p. 282; Gaz. vol. 168; p. 49.
Aerial vessel. W. Wait. No. 996,815; July 4; Sp. p. 441; Gaz. vol. 168; p. 73.
Aerial vessel. C. O. Rowland. No. 997,856; July 11; Sp. p. 2684; Gaz. vol. 168; p. 461.
Aerial vessel. E. A. Norris. No. 998,978; July 25; Sp. p. 5230; Gaz. vol. 168; p. 932.
Aero-traveler. J. H. Nolan. No. 985,925; Mar. 7; Sp. p. 356; Gaz. vol. 164; p. 57.
Aerocraft, Safety attachment for. F. J. Coates. No. 1,004,742; Oct. 3; Sp. p. 425; Gaz. vol. 171; p. 70.
Aerodart, Implement for projecting an. C. R. Bannihr. No. 998,450; July 18; Sp. p. 4023; Gaz. vol. 168; p. 714.
Aerodrome. J. M. Chritton. No. 980,599; Jan. 3; Sp. p. 912; Gaz. vol. 162; p. 148.
Aerodrome. E. J. Elsas. No. 992,410; May 16; Sp. p. 3411; Gaz. vol. 166; p. 614.
Aerodrome. R. E. Heath. No. 993,063; May 23; Sp. p. 4790; Gaz. vol. 166; p. 871.
Aerodrome. N. L. Mayhew. No. 994,417; June 6; Sp. p. 657; Gaz. vol. 167; p. 112.
Aerodrome. D. A. Albright. No. 994,897; June 13; Sp. p. 1782; Gaz. vol 167; p. 314.
Aerodrome. D. C. McCallum. No. 996,105; June 27; Sp. p. 4370; Gaz. vol. 167; p. 791.
Aerodrome. G. Snow. No. 996,153; June 27; Sp. p. 4465; Gaz. vol. 167; p. 808.
Aerodrome. J. Travis. No. 997,521; July 11; Sp. p. 1911; Gaz. vol. 168; p. 343.
Aerodrome. P. A. Otto. No. 1,001,160; Aug. 22; Sp. p. 4224; Gaz. vol. 169; p. 773.
Aerodrome. W. A. Hutson. No. 1,007,445; Oct. 31; Sp. p. 6358; Gaz. vol. 171; p. 1155.
Aerodrome. P. P. Carmichael. No. 1,009,048; Nov. 21; Sp. p. 3170; Gaz. vol. 172; p. 562.
Aerodrome. H. Kardos. No. 1,010,374; Nov. 28; Sp. p. 5970; Gaz. vol. 172; p. 1060.
Aerodrome propelling mechanism. S. B. McHenry. No. 1,006,967; Oct. 24; Sp. p. 5302; Gaz. vol. 171; p. 932.
Aeronautic device. E. P. Vincent. No. 996,171; June 27; Sp. p. 4510; Gaz. vol. 167; p. 814.
Aeronautical device. M. H. Whalen. No. 1,005,089; Oct. 3; Sp. p. 1105; Gaz. vol. 171; p. 187.
Aeronautical machine. T. W. K. Clarke. No. 996,061; June 27; Sp. p. 4279; Gaz. vol. 167; p. 777.
Aeronautical safety suit or garment. A. W. De Meir. No. 1,005,569; Oct. 10; Sp. p. 2206; Gaz. vol. 171; p. 381.
Aeroplane. J. A. Goodwin. No. 981,410; Jan. 10; Sp. p. 2836; Gaz. vol. 162; p. 458.
Aeroplane. S. S. Yarrington. No. 983,192; Jan. 31; Sp. p. 6582; Gaz. vol. 162; p. 1145.
Aeroplane. J. W. L. Harrell and J. Dailey. No. 983,707; Feb. 7; Sp. p. 969; Gaz. vol. 163; p. 154.
Aeroplane. W. R. and L. L. Bellville. No. 983,868; Feb. 14; Sp. p. 1335; Gaz. vol. 163; p. 239.
Aeroplane. E. K. A. Baumann. No. 985,126; Feb. 28; Sp. p. 3999; Gaz. vol. 163; p. 737.
Aeroplane. A. W. Schaef. No. 985,375; Feb. 28; Sp. p. 4581; Gaz. vol. 163; p. 822.
Aeroplane. M. B. Dunkle. No. 985,665; Feb. 28; Sp. p. 5215; Gaz. vol. 163; p. 922.
Aeroplane. C. Kramer. No. 988,113; Mar. 28; Sp. p. 5033; Gaz. vol. 164; p. 893.
Aeroplane. P. S. Woods. No. 989,681; Apr. 18; Sp. p. 2980; Gaz. vol. 165; p. 525.
Aeroplane. C. P. Savage and J. W. Silver. No. 990,011; Apr. 18; Sp. p. 3687; Gaz. vol. 165; p. 639.
Aeroplane. J. Skorupa. No. 990,015; Apr. 18; Sp. p. 3693; Gaz. vol. 165; p. 640.
Aeroplane. W. Stemmer. No. 990,404; Apr. 25; Sp. p. 4569; Gaz. vol. 165; p. 806.
Aeroplane. E. M. Yates. No. 991,259; May 2; Sp. p. 918; Gaz. vol. 166; p. 155.
Aeroplane. J. Hughes. No. 991,620; May 9; Sp. p. 1707; Gaz. vol. 166; p. 314.
Aeroplane. E. L. Ault. No. 992,470; May 16; Sp. p. 3531; Gaz. vol. 166; p. 634.
Aeroplane. W. F. Smith. No. 992,816; May 23; Sp. p. 4249; Gaz. vol. 166; p. 784.
Aeroplane. O. G. Simmons. No. 993,724; May 30; Sp. p. 6234; Gaz. vol. 166; p. 1127.
Aeroplane. V. P. Fleiss. No. 994,072; May 30; Sp. p. 6924; Gaz. vol. 166; p. 1243.
Aeroplane. W. B. Alexander. No. 994,106; June 6; Sp. p. 4; Gaz. vol. 167; p. 3.
Aeroplane. H. P. Rhett. No. 994,198; June 6; Sp. p. 204; Gaz. vol. 167; p. 35.
Aeroplane. R. Paton. No. 994,782; June 13; Sp. p. 1497; Gaz. vol. 167; p. 275.
Aeroplane. J. J. Rectenwald. No. 996,363; June 27; Sp. p. 4990; Gaz. vol. 167; p. 879.
Aeroplane. A. Pusterla. No. 996,425; June 27; Sp. p. 5146; Gaz. vol. 167; p. 901.
Aeroplane. J. Christiansen. No. 996,456; June 27; Sp. p. 5202; Gaz. vol. 167; p. 912.

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Aeroplane. C. E. Lamburth. No. 996,592; June 27; Sp. p. 5466; Gaz. vol. 167; p. 956.
Aeroplane. R. Leidorf. No. 996,932; July 4; Sp. p. 687; Gaz. vol. 168; p. 113.
Aeroplane. F. Farmer. No. 998,333; July 18; Sp. p. 3793; Gaz. vol. 168; p. 674.
Aeroplane. M. B. Saavedra. No. 998,402; July 18; Sp. p. 3938; Gaz. vol. 168; p. 698.
Aeroplane. H. L., A. E., and H. O. Short. No. 999,266; Aug. 1; Sp. p. 142; Gaz. vol. 169; p. 27.
Aeroplane. R. F. Gardner. No. 1,000,252; Aug. 8; Sp. p. 2193; Gaz. vol. 169; p. 390.
Aeroplane. E. Ebbinghaus. No. 1,000,592; Aug. 15; Sp. p. 2971; Gaz. vol. 169; p. 544.
Aeroplane. P. Schmitt. No. 1,000,697; Aug. 15; Sp. p. 3205; Gaz. vol. 169; p. 570.
Aeroplane. P. Schneider. No. 1,001,223; Aug. 22; Sp. p. 4356; Gaz. vol. 169; p. 793.
Aeroplane. V. P. Fleiss. No. 1,001,941; Aug. 29; Sp. p. 5880; Gaz. vol. 169; p. 1067.
Aeroplane. H. L., A. E., and H. O. Short. No. 1,002,002; Aug. 29; Sp. p. 6008; Gaz. vol. 169; p. 1087.
Aeroplane. B. R. Alexander. No. 1,002,111; Aug. 29; Sp. p. 6202; Gaz. vol. 169; p. 1122.
Aeroplane. B. T. B. Hyde and A. Gaul, Jr. No. 1,002,203; Aug. 29; Sp. p. 6398; Gaz. vol. 169; p. 1153.
Aeroplane. G. F. A. McDougall. No. 1,002,724; Sept. 5; Sp. p. 1223; Gaz. vol. 170; p. 182.
Aeroplane. O. L. Dunton. No. 1,002,908; Sept. 12; Sp. p. 1644; Gaz. vol. 170; p. 284.
Aeroplane. L. B. Holland. No. 1,003,459; Sept. 19; Sp. p. 2772; Gaz. vol. 170; p. 508.
Aeroplane. L. B. Holland. No. 1,003,605; Sept. 19; Sp. p. 3102; Gaz. vol. 170; p. 559.
Aeroplane. E. H. Andrae. No. 1,003,687; Sept. 19; Sp. p. 3287; Gaz. vol. 170; p. 588.
Aeroplane. J. W. Dunne. No. 1,003,721; Sept. 19; Sp. p. 3352; Gaz. vol. 170; p. 600.
Aeroplane. P. and C. Zampol. No. 1,003,851; Sept. 19; Sp. p. 3609; Gaz. vol. 170; p. 642.
Aeroplane. W. A. Crawford-Frost. No. 1,004,378; Sept. 26; Sp. p. 4824; Gaz. vol. 170; p. 851.
Aeroplane. C. H. Duncan. No. 1,004,558; Oct. 3; Sp. p. 17; Gaz. vol. 171; p. 5.
Aeroplane. C. H. Duncan. No. 1.004.559; Oct. 3; Sp. p. 23; Gaz. vol. 171; p. 6.
Aeroplane. M. Mihályfi. No. 1,004,805; Oct. 3; Sp. p. 554; Gaz. vol. 171; p. 91.
Aeroplane. T. M. Walling. No. 1,004,944; Oct. 3; Sp. p. 853; Gaz. vol. 171; p. 139.
Aeroplane. R. P. Hall. No. 1,005,026; Oct. 3; Sp. p. 998; Gaz. vol. 171; p. 166.
Aeroplane. O. T. Belcher. No. 1,005,127; Oct. 10; Sp. p. 1182; Gaz. vol. 171; p. 222.
Aeroplane. C. Hartmann. No. 1,005,205; Oct. 10; Sp. p. 1360; Gaz. vol. 171; p. 251.
Aeroplane. C. M. Wanzer. No. 1,005,908; Oct. 17; Sp. p. 2932; Gaz. vol. 171; p. 531.
Aeroplane. R. E. Miller. No. 1,006,969; Oct. 24; Sp. p. 5310; Gaz. vol. 171; p. 933.
Aeroplane. D. L. Mobley. No. 1,007,789; Nov. 7; Sp. p. 316; Gaz. vol. 172; p. 50.
Aeroplane. I. Hourwich. No. 1,008,152; Nov. 7; Sp. p. 1074; Gaz. vol. 172; p. 176.
Aeroplane. A. S. Greenamyer and A. Hallett. No. 1,008,258; Nov. 7; Sp. p. 1311; Gaz. vol. 172; p. 215.
Aeroplane. W. E. Tillinghast. No. 1,009,200; Nov. 21; Sp. p. 2483; Gaz. vol. 172; p. 615.
Aeroplane. C. B. McKenzie. No. 1,009,770; Nov. 28; Sp. p. 4741; Gaz. vol. 172; p. 859.
Aeroplane. A. F. W. Macmanus. No. 1,010,932; Dec. 5; Sp. p. 1182; Gaz. vol. 173; p. 186.
Aeroplane. G. W. Thompson. No. 1,010,986; Dec. 5; Sp. p. 1288; Gaz. vol. 173; p. 205.
Aeroplane. H. Röttges. No. 1,011,083; Dec. 5; Sp. p. 1498; Gaz. vol. 173; p. 237.
Aeroplane. W. E. Adams. No. 1,011,139; Dec. 12; Sp. p. 1659; Gaz. vol. 173; p. 293.
Aeroplane. H. J. French. No. 1,011,604; Dec. 12; Sp. p. 2744; Gaz. vol. 173; p. 460.
Aeroplane. M. Kalaba. No. 1,012,559; Dec. 19; Sp. p. 4785; Gaz. vol. 173; p. 822.
Aeroplane and motor-boat, Combined. C. Harzmeier. No. 990,865; May 2; Sp. p. 90; Gaz. vol. 166; p. 16.
Aeroplane and parachute, Combined. W. A. Crawford-Frost. No. 1,005,609; Oct. 10; Sp. p. 2294; Gaz. vol. 171; p. 395.
Aeroplane automatic lateral-stabilizing mechanism. F. A. Craig. No. 1,009,384; Nov. 21; Sp. p. 3948; Gaz. vol. 172; p. 683.
Aeroplane balancing means. H. F. Parker. No. 1,010,946; Dec. 5; Sp. p. 1211; Gaz. vol. 173; p. 191.
Aeroplane, Centrifugal. J. W. Fawkes. No. 998,683; July 25; Sp. p. 4540; Gaz. vol. 168; p. 827.
Aeroplane construction. J. Rooney. No. 985,372; Feb. 28; Sp. p. 4574; Gaz. vol. 163; p. 820.
Aeroplane construction. J. Rooney. No. 985,373; Feb. 28; Sp. p. 4575; Gaz. vol. 163; p. 821.
Aeroplane-controlling device, Automatic. C. E. Darrow. No. 1,007,926; Nov. 7; Sp. p. 634; Gaz. vol. 172; p. 98.
Aeroplane-launching device. E. Wilson. No. 988,611; Apr. 4; Sp. p. 693; Gaz. vol. 165; p. 111.
Aeroplane-propeller. C. M. Wanzer. No. 988,681; Apr. 4; Sp. p. 835; Gaz. vol. 165; p. 135.
Aeroplane-propeller. T. S. Harris. No. 999,992; Aug. 8; Sp. p. 1601; Gaz. vol. 169; p. 302.
Aeroplane safety attachment. G. C. Younggreen. No. 997,354; July 11; Sp. p. 1599; Gaz. vol. 168; p. 290.
Aeroplane safety device. H. W. Mattoni. No. 1,005,258; Oct. 10; Sp. p. 1487; Gaz. vol. 171; p. 270.
Aeroplane, Self-balancing. C. T. Litchfield and R. D. McKay. No. 1,011,354; Dec. 12; Sp. p. 2165; Gaz. vol. 173; p. 369.
Aeroplane-wing. H. W. Du Puy. No. 1,008,630; Nov. 14; Sp. p. 2269; Gaz. vol. 172; p. 386.
Aeroplanes and other structures, Frame or body for. G. Rifflard. No. 1,009,996; Nov. 28; Sp. p. 5196; Gaz. vol. 172; p. 933.
Aeroplanes and the like, Steering device for. H. Gaara. No. 997,612; July 11; Sp. p. 2105; Gaz. vol. 168; p. 375.
Aeroplanes, Automatic equilibrating device for. J. Danziger. No. 999,012; July 25; Sp. p. 5303; Gaz. vol. 168; p. 944.
Aeroplanes, Balance-controller for. V. M. Kutscha. No. 992,678; May 16; Sp. p. 3955; Gaz. vol. 166; p. 705.
Aeroplanes, Device for keeping afloat. F. Filiasi. No. 1,004,761; Oct. 3; Sp. p. 464; Gaz. vol. 171; p. 76.
Aeroplanes, Device for producing the helicoidal deformation of the planes of. L. M. J. C. Levavasseur. No. 1,006,106; Oct. 17; Sp. p. 3357; Gaz. vol. 171; p. 599.
Aeroplanes, Means for automatically operating the balancing-planes of. F. J. O'Brien and J. E. Korts. No. 1,013,049; Dec. 26; Sp. p. 5908; Gaz. vol. 173; p. 1033.
Aerostat and the like, Dirigible. A. Clément. No. 1,000,495; Aug. 15; Sp. p. 2739; Gaz. vol. 169; p. 507.
Aerostats and other purposes, Envelop for dirigible. K. Ziolkowski. No. 1,009,126; Nov. 21; Sp. p. 3332; Gaz. vol. 172; p. 589.
Aerostructure. T. A. Snyder. No. 1,007,810; Nov. 7; Sp. p. 366; Gaz. vol. 172; p. 57.
Aerostructures, Pyrotechnical auxiliary propelling mechanism for. H. H. Bales. No. 1,003,411; Sept. 19; Sp. p. 2659; Gaz. vol. 170; p. 490.
Aerotorpedo appliance. P. E. Chamberlin. No. 1,004,367; Sept. 26; Sp. p. 4793; Gaz. vol. 170; p. 847.
Agitating and classifying device. J. W. Fairfield. No. 1,010,244; Nov. 28; Sp. p. 5696; Gaz. vol. 172; p. 1018.
Agitating apparatus, Automatic. J. T. F. Frechette. No. 987,126; Mar. 21; Sp. p. 2847; Gaz. vol. 164; p. 524.
Agitating device. J. H. Hathaway. No. 995,001; June 13; Sp. p. 1999; Gaz. vol. 167; p. 350.
Agitating-machine. C. F. McEwen. No. 1,007,367; Oct. 31; Sp. p. 6189; Gaz. vol. 171; p. 1127.
Agitator. J. A. McCaskell. No. 981,098; Jan. 10; Sp. p. 2106; Gaz. vol. 162; p. 348.
Agitator. J. Wemer. No. 1,002,347; Sept. 5; Sp. p. 392; Gaz. vol. 170; p. 55.
Agitator. D. J. Reaume. No. 1,002,931; Sept. 12; Sp. p. 1690; Gaz. vol. 170; p. 292.
Agitator. H. L. Coe. No. 1,008,010; Nov. 7; Sp. p. 790; Gaz. vol. 172; p. 125.
Agitator. P. G. Hollstein. No. 1,011,621; Dec. 12; Sp. p. 2795; Gaz. vol. 173; p. 465.
Agitator implement. F. J. Osius. No. 1,005,653; Oct. 10; Sp. p. 2394; Gaz. vol. 171; p. 411.
Agricultural apparatus, Motor-driven. A. E. Cook and S. E. Kurtz. No. 1,010,238; Nov. 28; Sp. p. 5681; Gaz. vol. 172; p. 1016.
Agricultural implement. W. H. Rice. No. 980,335; Jan. 3; Sp. p. 305; Gaz. vol. 162; p. 55.
Agricultural implement. F. W. Miller. No. 980,428; Jan. 3; Sp. p. 513; Gaz. vol. 162; p. 88.
Agricultural implement. P. G. Conover. No. 985,568; Feb. 28; Sp. p. 5030; Gaz. vol. 163; p. 889.
Agricultural implement. A. Riester. No. 987,171; Mar. 21; Sp. p. 2980; Gaz. vol. 164; p. 541.
Agricultural implement. R. Coates. No. 992,543; May 16; Sp. p. 3696; Gaz. vol. 166; p. 661.
Agricultural implement. C. Christensen. No. 996,313; June 27; Sp. p. 4879; Gaz. vol. 167; p. 860.
Agricultural implement. W. H. Shank No. 1,007,245; Oct. 31; Sp. p. 5941; Gaz. vol. 171; p. 1084.
Agricultural implement. L. A. Aspinwall. No. 1,012,118; Dec. 19; Sp. p. 3884; Gaz. vol. 173; p. 672.
Agricultural implement. G. Borlan. No. 1,012,321; Dec. 19; Sp. p. 4316; Gaz. vol. 173; p. 741.
Agricultural-implement seat-mounting. H. T. Inghram. No. 982,068; Jan. 17; Sp. p. 4237; Gaz. vol. 162; p. 706.
Agricultural implements, Spring attachment for teeth of. L. Willis and O. F. Woodworth. No. 1,004,224; Sept. 26; Sp. p. 4517; Gaz. vol. 170; p. 799.
Agricultural machine. G. Roseman. No. 1,006,880; Oct. 24; Sp. p. 5133; Gaz. vol. 171; p. 904.
Agricultural machine, Automobile. D. H. Hatlee. No. 996,714; July 4; Sp. p. 239; Gaz. vol. 168; p. 41.
Agricultural-machine steering-gear attachment. W. C. Lorenz. No. 989,168; Apr. 11; Sp. p. 1846; Gaz. vol. 165; p. 320.
Agricultural machines, Actuating mechanism for. G. F. Conner. No. 998,752; July 25; Sp. p. 4711; Gaz. vol. 168; p. 852.

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Agricultural system, Electrical. C. S. Doney. No. 982,175; Jan. 17; Sp. p. 4423; Gaz. vol. 162; p. 741.
Air and its separation into its constituents, Liquefaction of. G. Claude. No. 981,748; Jan. 17; Sp. p. 3500; Gaz. vol. 162; p. 593.
Air and separating out oxygen, Liquefying. R. Mewes. No. 980,813; Jan. 3; Sp. p. 1357; Gaz. vol. 162; p. 217.
Air and steam coupling, Automatic safety. C. R. Dick. No. 989,489; Apr. 11; Sp. p. 2522; Gaz. vol. 165; p. 427.
Air, Apparatus for the production of compressed. M. K. Kirilloff. No. 986,577; Mar. 14; Sp. p. 1743; Gaz. vol. 164; p. 309.
Air-brake. J. W. Erskine. No. 987,454; Mar. 21; Sp. p. 3588; Gaz. vol. 164; p. 639.
Air-brake. G. O. Galbraith. No. 988,998; Apr. 11; Sp. p. 1492; Gaz. vol. 165; p. 262.
Air-brake. J. N. Temple. No. 1,002,092; Aug. 29; Sp. p. 6171; Gaz. vol. 169; p. 1116.
Air-brake. N. A. Hill. No. 1,007,105; Oct. 31; Sp. p. 5621; Gaz. vol. 171; p. 1033.
Air-brake. C. R. Daellenbach. No. 1,010,597; Dec. 5; Sp. p. 446; Gaz. vol. 173; p. 69.
Air-brake apparatus. J. H. Wallace. No. 999,351; Aug. 1; Sp. p. 308; Gaz. vol. 169; p. 55.
Air-brake appliance, Automatic. J. S. Baxter. No. 990,953; May 2; Sp. p. 273; Gaz. vol. 166; p. 47.
Air-brake attachment. J. W. Pagett and G. F. Penington. No. 985,202; Feb. 28; Sp. p. 4201; Gaz. vol. 163; p. 764.
Air-brake, Automatic. W. A. Pendry. No. 1,006,499; Oct. 24; Sp. p. 4286; Gaz. vol. 171; p. 769.
Air-brake coupling. R. A. Winton. No. 995,832; June 20; Sp. p. 3803; Gaz. vol. 167; p. 662.
Air-brake coupling. H. Walch. No. 1,012,770; Dec. 26; Sp. p. 5242; Gaz. vol. 173; p. 939.
Air-brake-coupling attachment. M. A. Brown. No. 1,012,514; Dec. 19; Sp. p. 4684; Gaz. vol. 173; p. 804.
Air-brake coupling, Automatic. T. E. Jennings. No. 982,004; Jan. 17; Sp. p. 4105; Gaz. vol. 162; p. 684.
Air-brake coupling, Automatic. J. McDonnell. No. 993,182; May 23; Sp. p. 5040; Gaz. vol. 166; p. 910.
Air-brake emergency appliance. C. Hill. No. 998,513; July 18; Sp. p. 4158; Gaz. vol. 168; p. 735.
Air-brake emergency-valve. L. O. Johnsonbaugh. No. 1,001,040; Aug. 22; Sp. p. 3987; Gaz. vol. 169; p. 733.
Air-brake hose-coupling. F. and V. J. Roberts. No. 985,551; Feb. 28; Sp. p. 4998; Gaz. vol. 163; p. 884.
Air-brake hose-coupling. N. Clegg. No. 998,841; July 25; Sp. p. 4903; Gaz. vol. 168; p. 882.
Air-brake-hose safety device. C. F. Strawmeyer. No. 993,122; May 23; Sp. p. 4930; Gaz. vol. 166; p. 892.
Air-brake mechanism. F. S. Cravens. No. 988,864; Apr. 4; Sp. p. 1210; Gaz. vol. 165; p. 193.
Air-brake-release device. A. W. Rollings. No. 1,001,985; Aug. 29; Sp. p. 5975; Gaz. vol. 169; p. 1082.
Air-brake retainer, Automatic. J. M. Carter. No. 996,748; July 4; Sp. p. 294; Gaz. vol. 168; p. 51.
Air-brake safety appliance. A. B. Leftwich and C. N. Markle. No. 1,006,239; Oct. 17; Sp. p. 3694; Gaz. vol. 171; p. 649.
Air-brake safety attachment, Automatic. E. H. Hamilton. No. 989,144; Apr. 11; Sp. p. 1787; Gaz. vol. 165; p. 311.
Air-brake signal. G. J. Westphal. No. 989,460; Apr. 11; Sp. p. 2466; Gaz. vol. 165; p. 417.
Air-brake system. F. Goff. No. 991,500; May 9; Sp. p. 1434; Gaz. vol. 166; p. 270.
Air-brake system. G. L. Ickes. No. 992,564; May 16; Sp. p. 3733; Gaz. vol. 166; p. 668.
Air-brake-system indicating device. C. L. Courson. No. 990,707; Apr. 25; Sp. p. 5267; Gaz. vol. 165; p. 909.
Air-brake systems, Means for automatically varying the braking power as the load varies in automatic. F. A. Kenney. No. 994,320; June 6; Sp. p. 443; Gaz. vol. 167; p. 76.
Air-brake systems, Testing device for. F. A. Gilfus. No. 982,714; Jan. 24; Sp. p. 5557; Gaz. vol. 162; p. 957.
Air-brake-train-line coupling, Automatic. W. H. Weaver. No. 997,028; July 4; Sp. p. 934; Gaz. vol. 168; p. 148.
Air-brake, Vehicle. C. Anspach. No. 999,732; Aug. 8; Sp. p. 1073; Gaz. vol. 169; p. 214.
Air-brakes, Bleed-cock for. J. M. Dooley. No. 983,610; Feb. 7; Sp. p. 766; Gaz. vol. 163; p. 120.
Air by refrigeration, Apparatus for drying. J. Gayley. No. 1,002,576; Sept. 5; Sp. p. 885; Gaz. vol. 170; p. 130.
Air-chamber, Suction. F. B. McNinch. No. 986,736; Mar. 14; Sp. p. 2076; Gaz. vol. 164; p. 363.
Air-circulator. J. Keith. No. 999,035; July 25; Sp. p. 5355; Gaz. vol. 168; p. 953.
Air-compressing apparatus. H. H. Frey. No. 1,001,132; Aug. 22; Sp. p. 4184; Gaz. vol. 169; p. 765.
Air-compressing apparatus. W. U. Griffiths. No. 1,011,189; Dec. 12; Sp. p. 1774; Gaz. vol. 173; p. 310.
Air-compressing plant. O. M. Bergstrom. No. 1,011,400; Dec. 12; Sp. p. 2244; Gaz. vol. 173; p. 383.
Air-compressor. F. M. Prather. No. 982,632; Jan. 24; Sp. p. 5390; Gaz. vol. 162; p. 930.
Air-compressor. W. Prellwitz. No. 987,912; Mar. 28; Sp. p. 4576; Gaz. vol. 164; p. 824.
Air-compressor. J. Crocker. No. 990,231; Apr. 25; Sp. p. 4159; Gaz. vol. 165; p. 744.
Air-compressor. H. E. Bailey. No. 992,634; May 16; Sp. p. 3880; Gaz. vol. 166; p. 691.
Air-compressor. R. Temple. No. 995,815; June 20; Sp. p. 3772; Gaz. vol. 167; p. 658.
Air-compressor. E. Hill. No. 1,000,809; Aug. 15; Sp. p. 3439; Gaz. vol. 169; p. 619.
Air-compressor. E. A. Rix. No. 1,001,305; Aug. 22; Sp. p. 4531; Gaz. vol. 169; p. 821.
Air-compressor. E. A. Rix. No. 1,002,760; Sept. 5; Sp. p. 1288; Gaz. vol. 170; p. 194.
Air-compressor. S. B., C. E., and W. R. Hill. No. 1,005,212; Oct. 10; Sp. p. 1371; Gaz. vol. 171; p. 253.
Air-compressor. C. J. Costello and S. G. Skinner. No. 1,005,940; Oct. 17; Sp. p. 3018; Gaz. vol. 171; p. 544.
Air-compressor. H. E. Barr. No. 1,008,519; Nov. 14; Sp. p. 2019; Gaz. vol. 172; p. 345.
Air compressor and distributer. M. G. McGuire. No. 1,002,295; Sept. 5; Sp. p. 251; Gaz. vol. 170; p. 33.
Air-compressor, Compound. W. R. Thompson and E. E. Case. No. 984,321; Feb. 14; Sp. p. 2320; Gaz. vol. 163; p. 393.
Air-compressor for use with engines. F. E. Follett. No. 993,356; May 30; Sp. p. 5412; Gaz. vol. 166; p. 999.
Air-compressor governor. H. M. P. Murphy. No. 988,648; Apr. 4; Sp. p. 769; Gaz. vol. 165; p. 123.
Air-compressor, Hydraulic. A. O. Girard. No. 1,007,095; Oct. 31; Sp. p. 5597; Gaz. vol. 171; p. 1029.
Air-compressor, Hydraulic-power. F. P. Wilbur. No. 1,005,911; Oct. 17; Sp. p. 2937; Gaz. vol. 171; p. 532.
Air-compressor, Wave-actuated. E. A. Wall. No. 1,008,683; Nov. 14; Sp. p. 2394; Gaz. vol. 172; p. 404.
Air-compressor, Windmill-actuated. S. Pichault. No. 1,000,690; Aug. 15; Sp. p. 3191; Gaz. vol. 169; p. 577.
Air-conditioning apparatus. F. E. Donaldson. No. 1,008,123; Nov. 7; Sp. p. 1019; Gaz. vol. 172; p. 165.
Air-cooling apparatus. F. Wittenmeier. No. 988,613; Apr. 4; Sp. p. 700; Gaz. vol. 165; p. 111.
Air-cooling apparatus. F. Wittenmeier. No. 1,003,129; Sept. 12; Sp. p. 2082; Gaz. vol. 170; p. 358.
Air-cooling device. J. A. Bergmann. No. 1,005,927; Oct. 17; Sp. p. 2987; Gaz. vol. 171; p. 539.
Air-cooling machine. R. H. and W. A. Easterling. No. 989,586; Apr. 18; Sp. p. 2791; Gaz. vol. 165; p. 493.
Air-cooling machine. W. W. Waller. No. 997,872; July 11; Sp. p. 2720; Gaz. vol. 168; p. 467.
Air-coupling, Automatic. P Haley. No. 990,042; Apr. 18; Sp. p. 3753; Gaz. vol. 165; p. 649.
Air-coupling, Automatic. H. S. Miller. No. 993,702; May 30; Sp. p. 6192; Gaz. vol. 166; p. 1119.
Air-craft. F. Brackett. No. 981,367; Jan. 10; Sp. p. 2729; Gaz. vol. 162; p. 443.
Air-craft. C. J. Lake. No. 998,295; July 18; Sp. p. 3704; Gaz. vol. 168; p. 660.
Air-craft propeller. W. J. Lehmann. No. 996,987; July 4; Sp. p. 829; Gaz. vol. 168; p. 133.
Air-craft, Wind-shield and prow for. W. I. Wood. No. 1,005,759; Oct. 10; Sp. p. 2599; Gaz. vol. 171; p. 448.
Air-cushion. J. G. Hilton. No. 984,220; Feb. 14; Sp. p. 2108; Gaz. vol. 163; p. 358.
Air-cushion for vehicles. R. E. Verge. No. 1,008,290; Nov. 7; Sp. p. 1389; Gaz. vol. 172; p. 226.
Air, Desiccating. H. T. Weston. No. 992,829; May 23; Sp. p. 4279; Gaz. vol. 166; p. 789.
Air, Drying. J. Gayley. No. 1,002,577; Sept. 5; Sp. p. 886; Gaz. vol. 170; p. 131.
Air, Drying. J. Gayley. No. 1,002,578; Sept. 5; Sp. p. 889; Gaz. vol. 170; p. 131.
Air, Drying. I. H. Reynolds and F. E. Norton. No. 1,004,468; Sept. 26; Sp. p. 5013; Gaz. vol. 170; p. 882.
Air-drying apparatus. P. Würth. No. 995,513; June 20; Sp. p. 3086; Gaz. vol. 167; p. 550.
Air-drying apparatus. J. B. King, W. E. Hughes, and F. W. Hall. No. 996,771; July 4; Sp. p. 342; Gaz. vol. 168; p. 58.
Air-filter. A. Budil. No. 1,012,122; Dec. 19; Sp. p. 3893; Gaz. vol. 173; p. 673.
Air filter and purifier. H. K. Diffenderfer. No. 997,442; July 11; Sp. p. 1755; Gaz. vol. 168; p. 318.
Air-forcing apparatus. I. H. Spencer. No. 982,393; Jan. 24; Sp. p. 4897; Gaz. vol. 162; p. 848.
Air-forcing apparatus. C. F. Baker. No. 990,948; May 2; Sp. p. 257; Gaz. vol. 166; p. 45.
Air-inlet device, Fresh-. J. Chalke. No. 992,849; May 23; Sp. p. 4322; Gaz. vol. 166; p. 796.
Air-lift. M. P. Bischoff and J. W. Reynolds. No. 990,830; May 2; Sp. p. 4; Gaz. vol. 166; p. 3.
Air-lift for agitators for ore or other materials. L. P. Hills. No. 994,679; June 6; Sp. p. 1222; Gaz. vol. 167; p. 199.
Air-lift, Liquid. A. Long. No. 987,729; Mar. 28; Sp. p. 4171; Gaz. vol. 164; p. 762.
Air-lock. W. H. Flaherty. No. 986,970; Mar. 14; Sp. p. 2555; Gaz. vol. 164; p. 442.
Air-lock. W. W. Wotherspoon. No. 988,614; Apr. 4; Sp. p. 701; Gaz. vol. 165; p. 112.
Air-lock for caisson-shafting. C. P. Downing. No. 995,060; June 13; Sp. p. 2126; Gaz. vol. 167; p. 369.
Air mixer, Carbureted-. P. J. Georgeson. No. 1,002,670; Sept. 5; Sp. p. 1076; Gaz. vol. 170; p. 162.
Air-motor. A. Kolsky. No. 997,207; July 4; Sp. p. 1280; Gaz. vol. 168; p. 208.
Air or gas compressor. C. C. Harmon. No. 999,220; Aug. 1; Sp. p. 57; Gaz. vol. 169; p. 12.

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Air or gas compressor. B. Rathmell. No. 1,001,301; Aug. 22; Sp. p. 4518; Gaz. vol. 169; p. 820.
Air or other gas capable of supporting combustion, Means for increasing energy of stored compressed. W. H. Sodeau. No. 1,008,871; Nov. 14; Sp. p. 2776; Gaz. vol. 172; p. 467.
Air-pipe, Insulated. A. Faget. No. 1,006,640; Oct. 24; Sp. p. 4599; Gaz. vol. 171; p. 820.
Air-pressure indicator. H. W. Walker. No. 988,917; Apr. 4; Sp. p. 1308; Gaz. vol. 165; p. 210.
Air-pressure, Means for automatically producing and utilizing. H. E. Borger and A. S. Atkins. No. 980,916; Jan. 10; Sp. p. 1637; Gaz. vol. 162; p. 284.
Air purifier and separator. D. Bashore and J. E. Shaveland. No. 991,932; May 9; Sp. p. 2358; Gaz. vol. 166; p. 419.
Air purifier, moistener, and heater. W. F. McGuire. No. 1,006,577; Oct. 24; Sp. p. 4473; Gaz. vol. 171; p. 798.
Air, Purifying. A. K. Cross. No. 996,705; July 4; Sp. p. 220; Gaz. vol. 168; p. 38.
Air-purifying apparatus. F. G. Jänich. No. 1,001,038; Aug. 22; Sp. p. 3984; Gaz. vol. 169; p. 733.
Air-purifying apparatus. W. P. Winter. No. 1,009,205; Nov. 21; Sp. p. 3497; Gaz. vol. 172; p. 617.
Air-purifying machine. J. Zellweger. No. 985,963; Mar. 7; Sp. p. 440; Gaz. vol. 164; p. 71.
Air-screen. H. H. Cummings. No. 983,877; Feb. 14; Sp. p. 1356; Gaz. vol. 163; p. 244.
Air-strainer, Suction. A. England. No. 985,792; Mar. 7; Sp. p. 51; Gaz. vol. 164; p. 11.
Air-supply armor. C. McNamee. No. 1,009,083; Nov. 21; Sp. p. 3250; Gaz. vol. 172; p. 575.
Air-tight joint for tins containing alimentary and other substances. J. J. Griffin. No. 987,572; Mar. 21; Sp. p. 3808; Gaz. vol. 164; p. 678.
Air-transmitter. J. Frykberg. No. 1,000,505; Aug. 15; Sp. p. 2757; Gaz. vol. 169; p. 510.
Airship. W. J. D. Bradford. No. 980,753; Jan. 3; Sp. p. 1225; Gaz. vol. 162; p. 197.
Airship. M. Rozboril and P. Bursky. No. 980,840; Jan. 3; Sp. p. 1413; Gaz. vol. 162; p. 226.
Airship. J. M. Keller. No. 981,655; Jan. 17; Sp. p. 3306; Gaz. vol. 162; p. 561.
Airship. E. L. Madden. No. 981,778; Jan. 17; Sp. p. 3564; Gaz. vol. 162; p. 605.
Airship. C. L. Anway. No. 982,561; Jan. 24; Sp. p. 5256; Gaz. vol. 162; p. 906.
Airship. C. E. Lamburth. No. 983,243; Jan. 31; Sp. p. 6706; Gaz. vol. 162; p. 1163.
Airship. C. E. Lamburth. No. 983,244; Jan. 31; Sp. p. 6707; Gaz. vol. 162; p. 1164.
Airship. R. G. Rettinger. No. 983,459; Feb. 7; Sp. p. 433; Gaz. vol. 163; p. 70.
Airship. F. Mylius. No. 983,750; Feb. 7; Sp. p. 1058; Gaz. vol. 163; p. 169.
Airship. W. H. Harrison. No. 986,418; Mar. 7; Sp. p. 1390; Gaz. vol. 164; p. 224
Airship. J. O. Brookbank. No. 986,434; Mar. 14; Sp. p. 1436; Gaz. vol. 164; p. 260.
Airship. C. A. Kuenzel. No. 986,579; Mar. 14; Sp. p. 1746; Gaz. vol. 164; p. 309.
Airship. C. A. Kuenzel. No. 987,380; Mar. 21; Sp. p. 3423; Gaz. vol. 164; p. 614.
Airship. F. Hansen. No. 987,624; Mar. 21; Sp. p. 3905; Gaz. vol. 164; p. 696.
Airship. J. J. Slavin. No. 988,039; Mar. 28; Sp. p. 4888; Gaz. vol. 164; p. 868.
Airship. F. Barmettler. No. 989,319; Apr. 11; Sp. p. 2185; Gaz. vol. 165; p. 371.
Airship. J. W. Wadsworth. No. 989,455; Apr. 11; Sp. p. 2451; Gaz. vol. 165; p. 414.
Airship. J. I. C. Clarke. No. 989,834; Apr. 18; Sp. p. 3314; Gaz. vol. 165; p. 579.
Airship. T. Rhoades. No. 993,108; May 23; Sp. p. 4896; Gaz. vol. 166; p. 888.
Airship. T. H. Konrad. No. 993,256; May 23; Sp. p. 5197; Gaz. vol. 166; p. 932.
Airship. R. P. Hall. No. 993,297; May 23; Sp. p. 5270; Gaz. vol. 166; p. 945.
Airship. W. C. Hurst. No. 994,104; May 30; Sp. p. 6996; Gaz. vol. 166; p. 1255.
Airship. H. P. Rhett. No. 994,197; June 6; Sp. p. 203; Gaz. vol. 167; p. 35.
Airship. E. M. Ralls. No. 995,033; June 13; Sp. p. 2058; Gaz. vol. 167; p. 360.
Airship. L. Winters and S. Hofstetter. No. 995,750; June 20; Sp. p. 3617; Gaz. vol. 167; p. 634.
Airship. P. Lehmann. No. 998,538; July 18; Sp. p. 4198; Gaz. vol. 168; p. 744.
Airship. J. R. Froberg. No. 998,844; July 25; Sp. p. 4909; Gaz. vol. 168; p. 884.
Airship. G. H. Sherwood. No. 999,471; Aug. 1; Sp. p. 541; Gaz. vol. 169; p. 95.
Airship. O. P. Ostergren. No. 1,000,035; Aug. 8; Sp. p. 1685; Gaz. vol. 169; p. 316.
Airship. W. H. Campkin. No. 1,000,714; Aug. 15; Sp. p. 3237; Gaz. vol. 169; p. 585.
Airship. R. Wankmüller. No. 1,000,865; Aug. 15; Sp. p. 3552; Gaz. vol. 169; p. 639.
Airship. T. M. Crepar. No. 1,000,897; Aug. 15; Sp. p. 3613; Gaz. vol. 169; p. 649.
Airship. S. D. Wheeler. No. 1,001,721; Aug. 29; Sp. p. 5383; Gaz. vol. 169; p. 993.
Airship. H. Thaden. No. 1,002,093; Aug. 29; Sp. p. 6173; Gaz. vol. 169; p. 1116.
Airship. J. C. Schleicher. No. 1,002,323; Sept. 5; Sp. p. 320; Gaz. vol. 170; p. 44.
Airship. W. C. Henderson. No. 1,002,516; Sept. 5; Sp. p. 747; Gaz. vol. 170; p. 110.
Airship. A. O. Paulson. No. 1,003,062; Sept. 12; Sp. p. 1933; Gaz. vol. 170; p. 334.
Airship. C. A. Kuenzel. No. 1,004,662; Oct. 3; Sp. p. 235; Gaz. vol. 171; p. 41.
Airship. R. Wankmüller. No. 1,005,097; Oct. 3; Sp. p. 1121; Gaz. vol. 171; p. 189.
Airship. J. C. Schleicher. No. 1,005,327; Oct. 10; Sp. p. 1656; Gaz. vol. 171; p. 296.
Airship. C. V. Johnson. No. 1,005,646; Oct. 10; Sp. p. 2376; Gaz. vol. 171; p. 408.
Airship. J. G. Maris. No. 1,005,988; Oct. 17; Sp. p. 3115; Gaz. vol. 171; p. 560.
Airship. C. E. Ritter. No. 1,006,282; Oct. 17; Sp. p. 3794; Gaz. vol. 171; p. 665.
Airship. R. R. Waterman. No. 1,007,827; Nov 7; Sp. p. 401; Gaz. vol. 172; p. 63.
Airship. H. L. Willoughby. No. 1,008,096; Nov. 7; Sp. p. 964; Gaz. vol. 172; p. 155.
Airship. A. De Bajza. No. 1,009,010; Nov. 14; Sp. p. 3084; Gaz. vol. 172; p. 513.
Airship. J. Rosenberg and R. Glabaznya. No. 1,010,076; Nov. 28; Sp. p. 5369; Gaz. vol. 172; p. 962.
Airship. J. Sparks. No. 1,010,324; Nov. 28; Sp. p. 5859; Gaz. vol. 172; p. 1044.
Airship. L. C. Badeau. No. 1,010,718; Dec. 5; Sp. p. 710; Gaz. vol. 173; p. 112.
Airship. J. P. Skripec. No. 1,011,256; Dec. 12; Sp. p. 1936; Gaz. vol. 173; p. 333.
Airship. R. M. Dungan. No. 1,012,529; Dec. 19; Sp. p. 4716; Gaz. vol. 173; p. 810.
Airship. M. Engstrom. No. 1,012,532; Dec. 19; Sp. p. 4723; Gaz. vol. 173; p. 811.
Airship attachment. G. P. N. Sadler. No. 999,125; July 25; Sp. p. 5518; Gaz. vol. 168; p. 981.
Airship balancing and steering device. W. R. Smith. No. 1,003,530; Sept. 19; Sp. p. 2915; Gaz. vol. 170; p. 532.
Airship, balloon, aeroplane, and the like. R. Wagner and C. von Radinger. No. 1,007,405; Oct. 31; Sp. p. 6269; Gaz. vol. 171; p. 1141.
Airship, Cable or track controlled. C. L. Johnson. No. 989,156; Apr. 11; Sp. p. 1822; Gaz. vol. 165; p. 315.
Airship construction. G. Scheel. No. 994,202; June 6; Sp. p. 212; Gaz. vol. 167; p. 36.
Airship, Dirigible. T. F. Dunn. No. 1,006,734; Oct. 24; Sp. p. 4776; Gaz. vol. 171; p. 850.
Airship, Dirigible. T. F. Dunn. No. 1,006,998; Oct. 24; Sp. p. 5373; Gaz. vol. 171; p. 942.
Airship, Dirigible. E. Seelig. No. 1,008,437; Nov. 14; Sp. p. 1831; Gaz. vol. 172; p. 316.
Airship, Dirigible. S. J. De Lan. No. 1,010,483; Dec. 5; Sp. p. 185; Gaz. vol. 173; p. 30.
Airship-driving mechanism. J. Schütte. No. 987,178; Mar. 21; Sp. p. 2995; Gaz. vol. 164; p. 544.
Airship, Gas-aeroplane motor-. H. Von der Oelsnitz. No. 999,068; July 25; Sp. p. 5413; Gaz. vol. 168; p. 964.
Airship gas-envelop. J. C. Schleicher. No. 991,459; May 2; Sp. p. 1351; Gaz. vol. 166; p. 224.
Airship-lifting attachment. E. B. Latch. No. 988,115; Mar. 28; Sp. p. 5036; Gaz. vol. 164; p. 893.
Airship, Military. J. E. Cooper. No. 984,076; Feb. 14; Sp. p. 1799; Gaz. vol. 163; p. 309.
Airship-propeller. A. J. Lockwood. No. 1,000,528; Aug. 15; Sp. p. 2806; Gaz. vol. 169; p. 517.
Airship-propeller. O. Kattenhorn. No. 1,001,043; Aug. 22; Sp. p. 3993; Gaz. vol. 169; p. 735.
Airship-propeller. H. A. King. No. 1,002,703; Sept. 5; Sp. p. 1156; Gaz. vol. 170; p. 174.
Airship-propelling mechanism. M. Vaniman. No. 982,647; Jan. 24; Sp. p. 5417; Gaz. vol. 162; p. 935.
Airship-steering mechanism. J. Schütte. No. 997,419; July 11; Sp. p. 1709; Gaz. vol. 168; p. 311.
Airship, Telescopic. A. Haidin. No. 1,002,682; Sept. 5; Sp. p. 1106; Gaz. vol. 170; p. 167.
Airships, Balancing-gear for. H. M. De Graw. No. 987,439; Mar. 21; Sp. p. 3543; Gaz. vol. 164; p. 633.
Airships, Balloon system for. J. Schütte. No. 1,001,995; Aug. 29; Sp. p. 5998; Gaz. vol. 169; p. 1085.
Airships, Engine-mounting for. A. Clément. No. 1,000,494; Aug. 15; Sp. p. 2737; Gaz. vol. 169; p. 507.
Airships, Propeller-wheel for. J. W. Hearst. No. 984,812; Feb. 21; Sp. p. 3388; Gaz. vol. 163; p. 597.
Airships, Propelling and balancing apparatus for. J. A. Renniee. No. 996,728; July 4; Sp. p. 257; Gaz. vol. 168; p. 45.
Airships, Storage-battery attachment for. J. W. Hearst. No. 984,667; Feb. 21; Sp. p. 3072; Gaz. vol. 163; p. 544.
Alaeplane. H. L. Stillman. No. 1,011,519; Dec. 12; Sp. p. 2513; Gaz. vol. 173; p. 428.

Alphabetical list of inventions—Continued.

Alarm: *See* Automatic alarm; Automobile-alarm; Bearing-alarm; Boat-alarm; Boiler-feed and water-level alarm; Boiler water-level alarm; Boring-machine alarm; Burglar-alarm; Burglar and fire alarm; Cash-box alarm; Detonating alarm; Door-alarm; Drip-pan alarm; Drum-actuated alarm; Electric alarm; Electromechanical alarm; Fire-alarm; Fire and burglar alarm; Gas-alarm; Gas-pressure alarm; High-water alarm; Incubator-alarm; Mail-box alarm; Pressure-ratio alarm; Self-switching alarm; Temperature-alarm; Thermostatic alarm; Time-alarm; Tire-alarm; Tire-leak alarm; Valve-starter alarm.
Alarm. J. A. Robinson. No. 996,279; June 27; Sp. p. 4793; Gaz. vol. 167; p. 850.
Alarm. G. V. Russ. No. 998,639; July 25; Sp. p. 4439; Gaz. vol. 168; p. 812.
Alarm apparatus, Automatic high-temperature. J. V. Lundstrom and K. Nielsen. No. 998,252; July 18; Sp. p. 3583; Gaz. vol. 168; p. 643.
Alarm device. W. P. Stamps and W. R. Phillips. No. 988,395; Apr. 4; Sp. p. 231; Gaz. vol. 165; p. 37.
Alarm device. V. J. Niele. No. 988,732; Apr. 4; Sp. p. 960; Gaz. vol. 165; p. 152.
Alarm device, Electrical. A. J. Rice. No. 993,460; May 30; Sp. p. 5644; Gaz. vol. 166; p. 1033.
Alarm-float. C. J. Owen. No. 980,667; Jan. 3; Sp. p. 1073; Gaz. vol. 162; p. 170.
Alarm-lock. M. Sheinman. No. 994,542; June 6; Sp. p. 918; Gaz. vol. 167; p. 152.
Alarm-lock, Burglar-proof keyless. J. Lyon. No. 1,012,384; Dec. 19; Sp. p. 4442; Gaz. vol. 173; p. 761.
Alarm lubricator, Electric-. W. A. Hardwick. No. 1,003,455; Sept. 19; Sp. p. 2762; Gaz. vol. 170; p. 506.
Alarm-regulator. H. L. Weigel. No. 983,661; Feb. 7; Sp. p. 872; Gaz. vol. 163; p. 139.
Alarm system, Electrical. A. Goldstein. No. 984,211; Feb. 14; Sp. p. 2094; Gaz. vol. 163; p. 355.
Alarm system, Electrical thermostatic. A. Goldstein. No. 981,998; Jan. 17; Sp. p. 4095; Gaz. vol. 162; p. 682.
Alarm system, Electrothermostatic. A. Goldstein. No. 986,706; Mar. 14; Sp. p. 2015; Gaz. vol. 164; p. 353.
Alarm system, Sprinkler. A. Goldstein and H. F. Blackwell. No. 984,210; Feb. 14; Sp. p. 2092; Gaz. vol. 163; p. 355.
Alarm system, Sprinkler. A. Goldstein. No. 988,768; Apr. 4; Sp. p. 1032; Gaz. vol. 165; p. 164.
Alarms and other devices, Apparatus for operating. G. I. Rockwood. No 989,052; Apr. 11; Sp. p. 1600; Gaz. vol. 165; p. 280.
Album, Photograph-. C. W. Crogan. No. 986,965; Mar. 14; Sp. p. 2548; Gaz. vol. 164; p. 441.
Albuminate, Producing acid. E. Nussbaum. No. 1,005,456; Oct. 10; Sp. p. 1930; Gaz. vol. 171; p. 341.
Albuminous preparations, Producing non-hygroscopic. F. Quade. No. 1,003,151; Sept. 12; Sp. p. 2120; Gaz. vol. 170; p. 365.
Albumins from plants, Apparatus for extracting. J. Geistdörfer. No. 1,003,594; Sept. 19; Sp. p. 3075; Gaz. vol. 170; p. 554.
Albumose-silver-ammonio product. G. Wichmann. No. 1,002,548; Sept. 5; Sp. p. 819; Gaz. vol. 170; p. 120.
Alcohol and similar liquids, Purification of. E. Guillaume. No. 992,498; May 16; Sp. p. 3588; Gaz. vol. 166; p. 644.
Alcohol, Manufacture of. A. E. V. Castro. No. 996,400; June 27; Sp. p. 5068; Gaz. vol. 167; p. 892.
Alcohol or alcoholic matters from wool-fat, Obtaining. S. Morgenstern. No. 991,874; May 9; Sp. p. 2229; Gaz. vol. 166; p. 398.
Alcohols, Ketone. G. Merling and H. Köhler. No. 989,993; Apr. 18; Sp. p. 3656; Gaz. vol. 165; p. 633.
Aldehyde sulfoxylates, Producing. F. Riethof. No. 1,006,793; Oct. 24; Sp. p. 4926; Gaz. vol. 171; p. 872.
Alfalfa feed. F. M. Wilson and J. P. Campbell. No. 1,005,392; Oct. 10; Sp. p. 1785; Gaz. vol. 171; p. 319.
Alfalfa-mill. J. Jorgensen. No. 989,525; Apr. 11; Sp. p. 2610; Gaz. vol. 165; p. 440.
Alfalfa-mill. E. F. Rose. No. 991,893; May 9; Sp. p. 2269; Gaz. vol. 166; p. 405.
Alfalfa-mill. E. F. Rose. No. 1,006,596; Oct. 24; Sp. p. 4514; Gaz. vol. 171; p. 805.
Alimentary product and making the same. S. L. Moser. No. 985,621; Feb. 28; Sp. p. 5136; Gaz. vol. 163; p. 908.
Alkali, Dehydration of caustic. P. E. Oberreit and F. M. Jahrmarkt. No. 983,834; Feb. 7; Sp. p. 1244; Gaz. vol. 163; p. 198.
Alkali peroxid, Making a dense stable composition containing. E. Thomann. No. 1,000,701; Aug. 15; Sp. p. 3213; Gaz. vol. 169; p. 581.
Alkaline albumose-silver compound. G. Wichmann. No. 1,002,547; Sept. 5; Sp. p. 818; Gaz. vol. 170; p. 120.
Alkaline chlorids, Apparatus for mercurial decomposition of. R. Frank. No. 1,009,061; Nov. 21; Sp. p. 3202; Gaz. vol. 172; p. 567.
Alkaline compounds, Electrolytic process of treating. E. G. Ekstrom. No. 1,003,041; Sept. 12; Sp. p. 1900; Gaz. vol. 170; p. 328.
Alkaline-earth oxalates, Precipitating. D. Strauss. No. 995,041; June 13; Sp. p. 2080; Gaz. vol. 167; p. 363.
Alkaloids, Manufacture of hydrocinchona. H. Thron. No. 989,664; Apr. 18; Sp. p. 2943; Gaz. vol. 165; p. 519.
Alligator-wrench. F. O. Jaques, Jr. No. 990,050; Apr. 18; Sp. p. 3768; Gaz. vol. 165; p. 651.
Alligator-wrench, Adjustable. E. H. Smith. No. 997,156; July 4; Sp. p. 1183; Gaz. vol. 168; p. 191.
Alloy. W. B. Driver. No. 981,542; Jan. 10; Sp. p. 3086; Gaz. vol. 162; p. 503.
Alloy. J. Jones. No. 998,777; July 25; Sp. p. 4765; Gaz. vol. 168; p. 861.
Alloy, Aluminum. C. H. H. Claessen. No. 995,113; June 13; Sp. p. 2223; Gaz. vol. 167; p. 387.
Alloy for high resistances, Nickel. W. B. Driver. No. 993,042; May 23; Sp. p. 4749; Gaz. vol. 166; p. 864.
Alloy, Magnesium-zinc. W. Rübel. No. 982,022; Jan. 17; Sp. p. 4140; Gaz. vol. 162; p. 691.
Alloy, Metallic. A. Huber. No. 993,998; May 30; Sp. p. 6781; Gaz. vol. 166; p. 1218.
Alloy, Pyrophoric metal. G. F. Hofmann. No. 1,006,849; Oct. 24; Sp. p. 5061; Gaz. vol. 171; p. 892.
Alloy, Steel. W. Beardmore. No. 1,007,055; Oct. 31; Sp. p. 5498; Gaz. vol. 171; p. 1016.
Alloys, Electrolytically refining. A. G. Betts. No. 987,947; Mar. 28; Sp. p. 4679; Gaz. vol. 164; p. 837.
Alloys, Making aluminum and copper. J. G. and W. F. Mellen. No. 982,218; Jan. 17; Sp. p. 4512; Gaz. vol. 162; p. 757.
Alloys of titanium with other metals or the like, Producing. A. J. Rossi. No. 986,505; Mar. 14; Sp. p. 1594; Gaz. vol. 164; p. 284.
Alloys, Producing titanium. J. B. Huffard. No. 992,423; May 16; Sp. p. 3434; Gaz. vol. 166; p. 618.
Aloin ester. W. Hiemenz and E. Rietz. No. 989,974; Apr. 18; Sp. p. 3613; Gaz. vol. 165; p. 626.
Alternator. S. B. Allen and E. T. King. No. 998,147; July 18; Sp. p. 3358; Gaz. vol. 168; p. 605.
Alternator, High-frequency. E. F. W. Alexanderson. No. 1,008,577; Nov. 14; Sp. p. 2157; Gaz. vol. 172; p. 367.
Alumina and magnesia, Composition of matter containing. T. B. Allen. No. 1,001,497; Aug. 22; Sp. p. 4902; Gaz. vol. 169; p. 886.
Alumina, magnesia, and boric oxid, Composition of matter containing. T. B. Allen. No. 1,001,570; Aug. 22; Sp. p. 5047; Gaz. vol. 169; p. 910.
Alumina, Making pure. O. Serpek. No. 1,007,495; Oct. 31; Sp. p. 6474; Gaz. vol. 171; p. 1171.
Alumina, Producing. E. D. Kendall. No. 1,013,022; Dec. 26; Sp. p. 5858; Gaz. vol. 173; p. 1024.
Aluminium and recovering aluminium therefrom, Making fusible compounds of. L. R. Keogh. No. 996,094; June 27; Sp. p. 4349; Gaz. vol. 167; p. 788.
Aluminium bronze. P. H. G. Durville. No. 1,007,548; Oct. 31; Sp. p. 6593; Gaz. vol. 171; p. 1190.
Aluminium nitrid, Manufacture of. O. Serpek. No. 996,032; June 20; Sp. p. 4212; Gaz. vol. 167; p. 731.
Aluminous composition. E. Taylor. No. 1,004,934; Oct. 3; Sp. p. 836; Gaz. vol. 171; p. 136.
Aluminous compositions, Preparation of. E. Taylor. No. 989,662; Apr. 18; Sp. p. 2941; Gaz. vol. 165; p. 519.
Aluminum and its alloys prior to galvanizing or coating the same with other metals, Pickling. S. Jahn. No. 1,011,203; Dec. 12; Sp. p. 1804; Gaz. vol. 173; p. 314.
Aluminum articles for the formation of galvanic metallic coatings, Treating. C. Rümpler. No. 992,600; May 16; Sp. p. 3824; Gaz. vol. 166; p. 681.
Aluminum nitrid, Producing. O. Serpek. No. 987,408; Mar. 21; Sp. p. 3492; Gaz. vol. 164; p. 624.
Amalgamating apparatus. T. J. Lovett. No. 1,008,044; Nov. 7; Sp. p. 856; Gaz. vol. 172; p. 137.
Amalgamator. F. J. Hoyt. No. 987,071; Mar. 14; Sp. p. 2741; Gaz. vol. 164; p. 474.
Amalgamator. W. E. Busby. No. 988,288; Mar. 28; Sp. p. 5374; Gaz. vol. 164; p. 950.
Amalgamator. A. B. Kittson. No. 991,857; May 9; Sp. p. 2199; Gaz. vol. 166; p. 392.
Amalgamator. E. H. and A. M. McGuire. No. 994,476; June 6; Sp. p. 768; Gaz. vol. 167; p. 130.
Amalgamator. C. McKellar. No. 1,003,118; Sept. 12; Sp. p. 2063; Gaz. vol. 170; p. 356.
Amalgamator. C. F. Davis. No. 1,005,105; Oct. 3; Sp. p. 1137; Gaz. vol. 171; p. 192.
Amalgamator and separator. J. T. Hogan. No. 987,677; Mar. 21; Sp. p. 4047; Gaz. vol. 164; p. 716.
Amalgamator, Concentrating-. R. Luckenbach. No. 999,814; Aug. 8; Sp. p. 1228; Gaz. vol. 169; p. 240.
Amalgamator, Concentrating-. R. Luckenbach. No. 1,001,057; Aug. 22; Sp. p. 4020; Gaz. vol. 169; p. 740.
Amalgamator-riffle. R. L. Royse. No. 1,013,066; Dec. 26; Sp. p. 5942; Gaz. vol. 173; p. 1040.
Ambulance. I. H. Russell. No. 982,997; Jan. 31; Sp. p. 6196; Gaz. vol. 162; p. 1080.
Ambulance-coach. M. A. Heydecker. No. 980,780; Jan. 3; Sp. p. 1284; Gaz. vol. 162; p. 207.
Amino-aryl-acidyl-amino-anthraquinones and their acidyl derivatives, Manufacture of. F. Henle. No. 989,602; Apr. 18; Sp. p. 2819; Gaz. vol. 165; p. 498.
Aminooxyarylarsenoxids and making same. P. Ehrlich and A. Bertheim. No. 1,002,243; Sept. 5; Sp. p. 126; Gaz. vol. 170; p. 16.
Ammonia-absorber. S. S. Wyly. No. 984,729; Feb. 21; Sp. p. 3216; Gaz. vol. 163; p. 569.
Ammonia-concentrator. W. H. Wright. No. 1,005,761; Oct. 10; Sp. p. 2601; Gaz. vol. 171; p. 448.

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Ammonia-cylinders, Means for packing. J. D. Campbell. No. 1,005,596; Oct. 10; Sp. p. 2270; Gaz. vol. 171; p. 390.
Ammonia from ammoniacal liquor, Art and apparatus for recovering. J. D. Pennock, E. C. Witherby, W. H. Blauvelt, E. N. Trump, and C. G. Tufts. No. 1,012,273; Dec. 19; Sp. p. 4219; Gaz. vol. 173; p. 724.
Ammonia from coal, Obtaining. H. L. Doherty. No. 997,908; July 11; Sp. p. 2804; Gaz. vol. 168; p. 479.
Ammonia from peat, Producing. H. C. Woltereck. No. 994,048; May 30; Sp. p. 6881; Gaz. vol. 166; p. 1236.
Ammonia-generator. A. E. Bossé. No. 1,012,056; Dec. 19; Sp. p. 3739; Gaz. vol. 173; p. 649.
Ammonia, Making. F. Haber and R. Le Rossignol. No. 999,025; July 25; Sp. p. 5331; Gaz. vol. 168; p. 949.
Ammonia, Making. E. Collett and M. Eckardt. No. 1,003,433; Sept. 19; Sp. p. 2716; Gaz. vol. 170; p. 498.
Ammonia, Producing. C. Bosch. No. 990,191; Apr. 18; Sp. p. 4063; Gaz. vol. 165; p. 698.
Ammonia, Producing. C. Bosch and A. Mittasch. No. 993,144; May 23; Sp. p. 4970; Gaz. vol. 166; p. 899.
Ammonia, Production of. F. Haber and R. Le Rossignol. No. 1,006,206; Oct. 17; Sp. p. 3618; Gaz. vol. 171; p. 637.
Ammonia-purifying process and apparatus. J. D. Pennock, E. C. Witherby, W. H. Blauvelt, E. N. Trump, and C. G. Tufts. No. 1,012,272; Dec. 19; Sp. p. 4215; Gaz. vol. 173; p. 723.
Ammonia-recovering apparatus. A. B. Duff. No. 1,003,887; Sept. 19; Sp. p. 3679; Gaz. vol. 170; p. 655.
Ammonia-stills, Apparatus for supplying lime to. J. S. Unger. No. 994,431; June 6; Sp. p. 684; Gaz. vol. 167; p. 117.
Ammonium carbonate, Making. J. Bueb. No. 1,004,361; Sept. 26; Sp. p. 4780; Gaz. vol. 170; p. 845.
Ammonium nitrate, Making pure. O. Nydegger. No. 986,204; Mar. 7; Sp. p. 932; Gaz. vol. 164; p. 151.
Ammonium perchlorate, Producing. O. B. Carlson. No. 985,724; Feb. 28; Sp. p. 5380; Gaz. vol. 163; p. 943.
Ammonium phosphate, Making primary. S. Peacock. No. 988,734; Apr. 4; Sp. p. 963; Gaz. vol. 165; p. 153.
Ammonium salts, Producing. C. Bosch. No. 990,192; Apr. 18; Sp. p. 4065; Gaz. vol. 165; p. 698.
Ammonium sulfate and sulfite, Making. F. Wolf. No. 994,435; June 6; Sp. p. 693; Gaz. vol. 167; p. 119.
Ammonium sulfate and sulfur from gas, Making. W. Feld. No. 1,011,043; Dec. 5; Sp. p. 1399; Gaz. vol. 173; p. 223.
Ammunition, Artillery-. K. Völler. No. 993,917; May 30; Sp. p. 6607; Gaz. vol. 166; p. 1190.
Ammunition-conveyer. G. C. Plummer. No. 986,753; Mar. 14; Sp. p. 2113; Gaz. vol. 164; p. 369.
Ammunition hoisting and loading apparatus for ordnance. A. T. Dawson and J. Horne. No. 996,222; June 27; Sp. p. 4657; Gaz. vol. 167; p. 831.
Ammunition hoisting and loading apparatus for ordnance. A. T. Dawson and J. Horne. No. 996,567; June 27; Sp. p. 5411; Gaz. vol. 167; p. 947.
Amplifying-tube. R. A. Boswell. No. 997,265; July 11; Sp. p. 1408; Gaz. vol. 168; p. 259.
Amusement apparatus. R. M. Combs. No. 987,555; Mar. 21; Sp. p. 3762; Gaz. vol. 164; p. 672.
Amusement apparatus. J. W. Hammett. No. 988,334; Apr. 4; Sp. p. 93; Gaz. vol. 165; p. 17.
Amusement apparatus. W. F. Mangels. No. 991,336; May 2; Sp. p. 1096; Gaz. vol. 166; p. 183.
Amusement apparatus. G. C. Tilyou. No. 992,999; May 23; Sp. p. 4655; Gaz. vol. 166; p. 849.
Amusement apparatus. E. Kohler. No. 993,840; May 30; Sp. p. 6476; Gaz. vol. 166; p. 1166.
Amusement apparatus. S. Pongo. No. 995,175; June 13; Sp. p. 2354; Gaz. vol. 167; p. 407.
Amusement apparatus. A. E. West. No. 1,000,219; Aug. 8; Sp. p. 2134; Gaz. vol. 169; p. 380.
Amusement apparatus. W. M. Gentle. No. 1,003,249; Sept. 12; Sp. p. 2347; Gaz. vol. 170; p. 403.
Amusement apparatus. D. H. Talbert, C. Shaw, J. I. Holcomb, and J. F. Hoke, Jr. No. 1,004,712; Oct. 3; Sp. p. 365; Gaz. vol. 171; p. 59.
Amusement apparatus. R. M. Murie. No. 1,005,061; Oct. 3; Sp. p. 1062; Gaz. vol. 171; p. 178.
Amusement apparatus. W. G. Mayfield. No. 1,006,666; Oct. 24; Sp. p. 4648; Gaz. vol. 171; p. 828.
Amusement apparatus. J. H. Curran. No. 1,011,414; Dec. 12; Sp. p. 2278; Gaz. vol. 173; p. 389.
Amusement appliance. R. C. Barrie. No. 992,731; May 16; Sp. p. 4060; Gaz. vol. 166; p. 725.
Amusement appliance, Public-. A. C. Snell. No. 1,007,745; Nov. 7; Sp. p. 208; Gaz. vol. 172; p. 33.
Amusement device. L. W. Faber. No. 980,934; Jan. 10; Sp. p. 1675; Gaz. vol. 162; p. 290.
Amusement device. E. K. Napp. No. 981,672; Jan. 17; Sp. p. 3342; Gaz. vol. 162; p. 567.
Amusement device. A. C. Grunwald. No. 982,269; Jan. 24; Sp. p. 4629; Gaz. vol. 162; p. 803.
Amusement device. N. Badisco. No. 985,880; Mar. 7; Sp. p. 254; Gaz. vol. 164; p. 42.
Amusement device. I. Corneliussen. No. 987,859; Mar. 28; Sp. p. 4433; Gaz. vol. 164; p. 806.
Amusement device. L. A. Dils. No. 992,343; May 16; Sp. p. 3277; Gaz. vol. 166; p. 590.
Amusement device. C. B. Tower, Jr. No. 993,282; May 23; Sp. p. 5239; Gaz. vol. 166; p. 940.
Amusement device. G. C. Tilyou. No. 995,388; June 13; Sp. p. 2801; Gaz. vol. 167; p. 477.
Amusement device. B. Berhold. No. 995,945; June 20; Sp. p. 4037; Gaz. vol. 167; p. 702.
Amusement device. A. M. Langworthy. No. 1,002,162; Aug. 29; Sp. p. 6293; Gaz. vol. 169; p. 1138.
Amusement device. W. C. Sanford. No. 1,002,874; Sept. 12; Sp. p. 1556; Gaz. vol. 170; p. 271.
Amusement device. J. Kavakos. No. 1,004,174; Sept. 26; Sp. p. 4422; Gaz. vol. 170; p. 782.
Amusement device. W. R. Bailey. No. 1,008,518; Nov. 14; Sp. p. 2017; Gaz. vol. 172; p. 344.
Amusement device, Aerial. R. Hartwig. No. 983,049; Jan. 31; Sp. p. 6323; Gaz. vol. 162; p. 1099.
Amusement device or novelty. W. E. Riley. No. 1,001,447; Aug. 22; Sp. p. 4821; Gaz. vol. 169; p. 869.
Amusement device, Rocking-boat. W. S. Tothill. No. 982,314; Jan. 24; Sp. p. 4742; Gaz. vol. 162; p. 820.
Amusement of the public, Apparatus for. G. Young. No. 987,029; Mar. 14; Sp. p. 2663; Gaz. vol. 164; p. 460.
Amusement purposes, Floor and car for. E. Storm. No. 999,902; Aug. 8; Sp. p. 1423; Gaz. vol. 169; p. 271.
Anastigmatic objective. C. Graf. No. 981,412; Jan. 10; Sp. p. 2842; Gaz. vol. 162; p. 458.
Anchor. J. Kennedy. No. 991,517; May 9; Sp. p. 1474; Gaz. vol. 166; p. 276.
Anchor. S. P. Birdsey. No. 998,152; July 18; Sp. p. 3365; Gaz. vol. 168; p. 607.
Anchor. F. E. Forster. No. 1,008,318; Nov. 14; Sp. p. 1501; Gaz. vol. 172; p. 275.
Anchor. H. N. Jackson. No. 1,011,622; Dec. 12; Sp. p. 2797; Gaz. vol. 173; p. 466.
Anchor-board fastener. R. E. Robbins. No. 990,778; Apr. 25; Sp. p. 5417; Gaz. vol. 165; p. 934.
Anchor, Earth-. C. J. Van Ostrand. No. 1,008,501; Nov. 14; Sp. p. 1979; Gaz. vol. 172; p. 339.
Anchor, Folding. D. A. Jones. No. 999,795; Aug. 8; Sp. p. 1196; Gaz. vol. 169; p. 235.
Anchor, Ground-. J. Schroeder. No. 995,297; June 13; Sp. p. 2578; Gaz. vol. 167; p. 447.
Anchor, Ground-. F. V. Simpson. No. 998,720; July 25; Sp. p. 4627; Gaz. vol. 168; p. 841.
Anchor, Ground-. J. Wilcox. No. 1,002,350; Sept. 5; Sp. p. 397; Gaz. vol. 170; p. 56.
Anchor, Land-. G. W. Wood. No. 994,356; June 6; Sp. p. 525; Gaz. vol. 167; p. 90.
Anchor-post. L. A. and W. B. Henning. No. 1,010,759; Dec. 5; Sp. p. 813; Gaz. vol. 173; p. 126.
Anchor, Sea-. J. A. Rosvold. No. 990,596; Apr. 25; Sp. p. 5013; Gaz. vol. 165; p. 873.
Anchor, Sea-. T. S. Miller. No. 1,012,890; Dec. 26; Sp. p. 5554; Gaz. vol. 173; p. 979.
Anchoring device or bolt. E. C. Smith. No. 1,003,527; Sept. 19; Sp. p. 2909; Gaz. vol. 170; p. 531.
Anchoring, Land-. J. A. McGreevey. No. 991,525; May 9; Sp. p. 1491; Gaz. vol. 166; p. 279.
Anesthetics, Apparatus for use in administering. A. Berthelot and P. Rosenthal. No. 999,950; Aug. 8; Sp. p. 1521; Gaz. vol. 169; p. 287.
Angle-bar, Reinforced. B. Wolhaupter. No. 991,683; May 9; Sp. p. 1861; Gaz. vol. 166; p. 336.
Angle-bar straightener. H. J. Erickson and H. W. Freeman. No. 997,767; July 11; Sp. p. 2468; Gaz. vol. 168; p. 431.
Angles, Instrument for observing. E. Koscinski. No. 989,852; Apr. 18; Sp. p. 3351; Gaz. vol. 165; p. 584.
Anhydrous ethyl alcohol, Production of. J. H. Hess. No. 996,763; July 4; Sp. p. 332; Gaz. vol. 168; p. 56.
Animal-blanket. A. W. Smith. No. 994,663; June 6; Sp. p. 1193; Gaz. vol. 167; p. 194.
Animal-catcher. V. Rambaud. No. 985,206; Feb. 28; Sp. p. 4221; Gaz. vol. 163; p. 766.
Animal catching and holding device. R. A. Morris. No. 983,248; Jan. 31; Sp. p. 6715; Gaz. vol. 162; p. 1165.
Animal-check. W. L. Bear. No. 990,625; Apr. 25; Sp. p. 5063; Gaz. vol. 165; p. 882.
Animal-detacher. P. Sorensen and E. N. Gilstrap. No. 1,010,198; Nov. 28; Sp. p. 5601; Gaz. vol. 172; p. 1003.
Animal-holding device. M. E. Nelson. No. 999,840; Aug. 8; Sp. p. 1272; Gaz. vol. 169; p. 248.
Animal-inclosure. E. E. Jeffery. No. 980,789; Jan. 3; Sp. p. 1306; Gaz. vol. 162; p. 210.
Animal-shears. E. A. Larson. No. 989,163; Apr. 11; Sp. p. 1834; Gaz. vol. 165; p. 318.
Animal shears or clipper. J. K. Stewart. No. 994,883; June 13; Sp. p. 1754; Gaz. vol. 167; p. 310.
Animal-shelter. C. J. Bear. No. 988,241; Mar. 28; Sp. p. 5269; Gaz. vol. 164; p. 935.
Animal-smoker. L. T. Brekke. No. 1,009,042; Nov. 21; Sp. p. 3159; Gaz. vol. 172; p. 560.
Animal substances such as wool, silk, or hair, Treatment of. L. Meunier. No. 998,370; July 18; Sp. p. 3874; Gaz. vol. 168; p. 688.
Animal-trap. J. Drubko. No. 981,592; Jan. 10; Sp. p. 3184; Gaz. vol. 162; p. 519.
Animal-trap. G. Oneal. No. 982,157; Jan. 17; Sp. p. 4393; Gaz. vol. 162; p. 735.
Animal-trap. J. H. Tharp. No. 983,181; Jan. 31; Sp. p. 6558; Gaz. vol. 162; p. 1141.

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Animal-trap. J. W. Mendenhall. No. 983,921; Feb. 14; Sp. p. 1460; Gaz. vol. 163; p. 257.
Animal-trap. G. L. Willis. No. 986,256; Mar. 7; Sp. p. 1045; Gaz. vol. 164; p. 168.
Animal-trap. H. J. Hagge. No. 986,460; Mar. 14; Sp. p. 1492; Gaz. vol. 164; p. 269.
Animal-trap. S. McDonald. No. 986,928; Mar. 14; Sp. p. 2480; Gaz. vol. 164; p. 429.
Animal-trap. C. L. Kaufman. No. 990,141; Apr. 18; Sp. p. 3941; Gaz. vol. 165; p. 680.
Animal-trap. T. Kinkade. No. 990,817; Apr. 25; Sp. p. 5497; Gaz. vol. 165; p. 947.
Animal-trap. E. L. Roberson. No. 992,065; May 9; Sp. p. 2601; Gaz. vol. 166; p. 462.
Animal-trap. L. Morris. No. 992,232; May 16; Sp. p. 2993; Gaz. vol. 166; p. 551.
Animal-trap. H. Copeland. No. 993,033; May 23; Sp. p. 4728; Gaz. vol. 166; p. 861.
Animal-trap. J. Ostertag. No. 993,192; May 23; Sp. p. 5060; Gaz. vol. 166; p. 913.
Animal-trap. W. G. Gates. No. 993,238; May 23; Sp. p. 5153; Gaz. vol. 166; p. 927.
Animal-trap. E. T. Ross and F. G. Veatch. No. 995,095; June 13; Sp. p. 2198; Gaz. vol. 167; p. 382.
Animal-trap. H. P. Damsma. No. 995,664; June 20; Sp. p. 3429; Gaz. vol. 167; p. 604.
Animal-trap. J. K. Harding. No. 996,599; June 27; Sp. p. 5480; Gaz. vol. 167; p. 959.
Animal-trap. M. A. Kinney. No. 997,393; July 11; Sp. p. 1664; Gaz. vol. 168; p. 301.
Animal-trap. W. T. Gallagher. No. 998,166; July 18; Sp. p. 3392; Gaz. vol. 168; p. 612.
Animal-trap. M. Jaeger. No. 999,651; Aug. 1; Sp. p. 894; Gaz. vol. 169; p. 155.
Animal-trap. W. D. Dye. No. 999,705; Aug. 1; Sp. p. 995; Gaz. vol. 169; p. 174.
Animal-trap. W. C. Clow. No. 999,751; Aug. 8; Sp. p. 1109; Gaz. vol. 169; p. 220.
Animal-trap. J. Jackson. No. 1,000,007; Aug. 8; Sp. p. 1635; Gaz. vol. 169; p. 307.
Animal-trap. G. Halinka. No. 1,001,639; Aug. 29; Sp. p. 5198; Gaz. vol. 169; p. 964.
Animal-trap. V. A. Indahl. No. 1,002,273; Sept. 5; Sp. p. 192; Gaz. vol. 170; p. 25.
Animal-trap. W. H. Coxwell. No. 1,003,091; Sept. 12; Sp. p. 2007; Gaz. vol. 170; p. 345.
Animal-trap. E. Conia. No. 1,003,342; Sept. 12; Sp. p. 2534; Gaz. vol. 170; p. 436.
Animal-trap. E. H. Kettelforder. No. 1,003,466; Sept. 19; Sp. p. 2789; Gaz. vol. 170; p. 510.
Animal-trap. C. H. Falls. No. 1,003,891; Sept. 19; Sp. p. 3686; Gaz. vol. 170; p. 656.
Animal-trap. H. H. Freeman. No. 1,004,007; Sept. 26; Sp. p. 3999; Gaz. vol. 170; p. 723.
Animal-trap. H. L. Mainland. No. 1,004,448; Sept. 26; Sp. p. 4970; Gaz. vol. 170; p. 874.
Animal-trap. T. J. Burke. No. 1,004,985; Oct. 3; Sp. p. 924; Gaz. vol. 171; p. 153.
Animal-trap. A. A. Chantland. No. 1,005,102; Oct. 3; Sp. p. 1133; Gaz. vol. 171; p. 191.
Animal-trap. L. A. Steffens. No. 1,005,667; Oct. 10; Sp. p. 2420; Gaz. vol. 171; p. 416.
Animal-trap. F. H. Bassett. No. 1,006,046; Oct. 17; Sp. p. 3239; Gaz. vol. 171; p. 580.
Animal-trap. A. Sutemeier. No. 1,006,701; Oct. 24; Sp. p. 4710; Gaz. vol. 171; p. 839.
Animal-trap. H. O. Reese. No. 1,007,975; Nov. 7; Sp. p. 727; Gaz. vol. 172; p. 114.
Animal-trap. E. Firnhaber. No. 1,010,486; Dec. 5; Sp. p. 189; Gaz. vol. 173; p. 31.
Animal-trap. J. Kemp. No. 1,011,207; Dec. 12; Sp. p. 1810; Gaz. vol. 173; p. 315.
Animal-trap. J. F. Andrews. No. 1,011,304; Dec. 12; Sp. 2046; Gaz. vol. 173; p. 351.
Animal-trap. J. A. Fulks. No. 1,011,605; Dec. 12; Sp. p. 2747; Gaz. vol. 173; p. 460.
Animal-trap. H. L. Mainland. No. 1,012,386; Dec. 19; Sp. p. 4446; Gaz. vol. 173; p. 762.
Animal-trap attachment. B. A. Shaw. No. 985,555; Feb. 28; Sp. p. 5005; Gaz. vol. 163; p. 886.
Animal-trap-setting device. J. E. Allen and F. F. Ellis. No. 1,011,102; Dec. 5; Sp. p. 1543; Gaz. vol. 173; p. 244.
Animal-treating apparatus. F. C. Goff. No. 983,820; Feb. 7; Sp. p. 1188; Gaz. vol. 163; p. 192.
Animals, Electrical device for controlling unruly. A. F. Cogswell. No. 987,345; Mar. 21; Sp. p. 3353; Gaz. vol. 164; p. 602.
Ankle-brace. C. H. Irish. No. 983,721; Feb. 7; Sp. p. 998; Gaz. vol. 163; p. 158.
Ankle-joint. N. F. Harrison. No. 1,001,641; Aug. 29; Sp. p. 5203; Gaz. vol. 169; p. 964.
Ankle support and protector. H. J. Collis. No. 991,831; May 9; Sp. p. 2154; Gaz. vol. 166; p. 383.
Ankle support and protector. H. J. Collis. No. 999,010; July 25; Sp. p. 5297; Gaz. vol. 168; p. 943.
Annealing apparatus. F. H. Daniels. No. 983,981; Feb. 14; Sp. p. 1590; Gaz. vol. 163; p. 277.
Annealing-box. T. B. Gray. No. 994,995; June 13; Sp. p. 1987; Gaz. vol. 167; p. 347.
Annealing-box. J. P. Allen. No. 1,003,959; Sept. 19; Sp. p. 3879; Gaz. vol. 170; p. 681.
Annealing-box. F. Cordes. No. 1,012,248; Dec. 19; Sp. p. 4168; Gaz. vol. 173; p. 715.
Annealing-box. F. Cordes. No. 1,012,249; Dec. 19; Sp. p. 4169; Gaz. vol. 173; p. 715.
Annealing-furnace. E. H. Holmes. No. 995,460; June 20; Sp. p. 2972; Gaz. vol. 167; p. 530.
Annealing-furnace. E. S. Davis. No. 1,007,021; Oct. 24; Sp. p. 5414; Gaz. vol. 171; p. 949.
Annular structures, Machine for making. C. C. Davis. No. 1,012,992; Dec. 26; Sp. p. 5793; Gaz. vol. 173; p. 1013.
Annunciator. A. Lungen. No. 988,004; Mar. 28; Sp. p. 4808; Gaz. vol. 164; p. 857.
Annunciator. C. J. Henschel. No. 989,970; Apr. 18; Sp. p. 3606; Gaz. vol. 165; p. 625.
Annunciator. I. J. Bradshaw. No. 997,956; July 18; Sp. p. 2930; Gaz. vol. 168; p. 538.
Annunciator. H. J. Alther. No. 1,012,790; Dec. 26; Sp. p. 5317; Gaz. vol. 173; p. 947.
Annunciator, Electrically-operated. F. W. Bost and B. Gobel. No. 1,004,846; Oct. 3; Sp. p. 648; Gaz. vol. 171; p. 106.
Annunciator for baling-machines. J. I. Mawhinney. No. 1,010,163; Nov. 28; Sp. p. 5533; Gaz. vol. 172; p. 991.
Anode-mold. U. A. Garred. No. 988,564; Apr. 4; Sp. p. 582; Gaz. vol. 165; p. 94.
Anode for X-ray tubes. H. Green. No. 1,002,390; Sept. 5; Sp. p. 498; Gaz. vol. 170; p. 69.
Ant-trap. J. L. Knox. No. 1,002,919; Sept. 12; Sp. p. 1666; Gaz. vol. 170; p. 288.
Ant-trap. A. R. R. Seifert. No. 1,012,571; Dec. 19; Sp. p. 4818; Gaz. vol. 173; p. 826.
Antenna. R. H. Rendahl. No. 1,005,471; Oct. 10; Sp. p. 1958; Gaz. vol. 171; p. 346.
Anthracene compounds and making same. M. H. Isler. No. 1,001,408; Aug. 22; Sp. p. 4757; Gaz. vol. 169; p. 857.
Anthranol, Manufacture of. F. Singer. No. 999,062; July 25; Sp. p. 5404; Gaz. vol. 168; p. 962.
Anthraquinone series and making same, Product of the. F. Ullmann. No. 1,001,325; Aug. 22; Sp. p. 4582; Gaz. vol. 169; p. 829.
Anti-rail-creeping device. J. Wolfe. No. 991,924; May 9; Sp. p. 2337; Gaz. vol. 166; p. 415.
Anti-rail-spreader. F. Lindberg. No. 980,301; Jan. 3; Sp. p. 228; Gaz. vol. 162; p. 44.
Anti-rail-spreading device. C. M. Gates. No. 1,002,668; Sept. 5; Sp. p. 1072; Gaz. vol. 170; p. 161.
Anti slipping and skidding device. W. H. Snyder. No. 1,004,487; Sept. 26; Sp. p. 5050; Gaz. vol. 170; p. 889.
Anticreeper. H. H. Sponenburg. No. 1,004,600; Oct. 3; Sp. p. 110; Gaz. vol. 171; p. 19.
Antirattler and thill-support. W. N. Thomas. No. 981,142; Jan. 10; Sp. p. 2207; Gaz. vol. 162; p. 363.
Antiseptic composition. E. D. Reed. No. 984,106; Feb. 14; Sp. p. 1856; Gaz. vol. 163; p. 319.
Antisiphoning trap. A. M. Morrison. No. 988,369; Apr. 4; Sp. p. 171; Gaz. vol. 165; p. 29.
Antiskid attachment for wheel-tires. C. E. Russell and T. M. Keith. No. 991,895; May 9; Sp. p. 2275; Gaz. vol. 166; p. 405.
Antiskid-chain for automobile-tires. O. Falkenwalde. No. 991,286; May 2; Sp. p. 987; Gaz. vol. 166; p. 166.
Antiskidder, Wheel-. H. Heer. No. 990,651; Apr. 25; Sp. p. 5125; Gaz. vol. 165; p. 891.
Antiskidding device. W. P. Scholl. No. 982,304; Jan. 24; Sp. p. 4724; Gaz. vol. 162; p. 816.
Antiskidding device. E. B. Stimpson. No. 984,499; Feb. 14; Sp. p. 2685; Gaz. vol. 163; p. 451.
Antiskidding device. J. Toren. No. 1,011,277; Dec. 12; Sp. p. 1993; Gaz. vol. 173; p. 342.
Antiskidding device, Automobile. A. Hormel. No. 991,445; May 2; Sp. p. 1315; Gaz. vol. 166; p. 219.
Antiskidding device for automobiles. R. A. Moore. No. 995,026; June 13; Sp. p. 2047; Gaz. vol. 167; p. 358.
Antiskidding device for automobiles. R. A. Moore. No. 998,714; July 25; Sp. p. 4601; Gaz. vol. 168; p. 838.
Antiskidding device for automobiles. R. A. Moore. No. 1,008,354; Nov. 14; Sp. p. 1577; Gaz. vol. 172; p. 287.
Antiskidding device for vehicle-wheels. O. B. Kibby. No. 987,806; Mar. 28; Sp. p. 4327; Gaz. vol. 164; p. 788.
Antislipping and cushioning device. C. E. Jewell. No. 1,007,290; Oct. 31; Sp. p. 6028; Gaz. vol. 171; p. 1100.
Antislipping device. H. J. Nye. No. 983,393; Feb. 7; Sp. p. 293; Gaz. vol. 163; p. 49.
Antislipping device. R. Arthurs. No. 988,847; Apr. 4; Sp. p. 1180; Gaz. vol. 165; p. 188.
Antislipping device. O. Falkenwalde. No. 990,531; Apr. 25; Sp. p. 4872; Gaz. vol. 165; p. 850.
Antislipping stud. T. Sloper. No. 1,009,191; Nov. 21; Sp. p. 3467; Gaz. vol. 172; p. 612.
Antispreader. W. Barnett. No. 985,881; Mar. 7; Sp. p. 258; Gaz. vol. 164; p. 42.
Antitoxin, Producing hog-cholera. D. F. Luckey. No. 1,012,874; Dec. 26; Sp. p. 5525; Gaz. vol. 173; p. 975.
Anvil attachment. C. H. King. No. 985,262; Feb. 28; Sp. p. 4342; Gaz. vol. 163; p. 785.

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Anvil attachment. G. C. Russell. No. 994,606; June 6; Sp. p. 1046; Gaz. vol. 167; p. 174.
Apparel, Bow for. C. S. Clinch. No. 1,005,415; Oct. 10; Sp. p. 1834; Gaz. vol. 171; p. 326.
Apparel, Inspection device for wearing-. J. A. Snyder. No. 983,320; Feb. 7; Sp. p. 137; Gaz. vol. 163; p. 24.
Apparel, Means for securing ornaments to articles of. D. Marinsky. No. 1,006,575; Oct. 24; Sp. p. 4469; Gaz. vol. 171; p. 798.
Apron. I. M. Ruth. No. 999,263; Aug. 1; Sp. p. 137; Gaz. vol. 169; p. 26.
Apron, Scrub-. E. P. White. No. 1,004,717; Oct. 3; Sp. p. 374; Gaz. vol. 171; p. 62.
Apron, Storm-. E. S. Ziegler. No. 1,006,338; Oct. 17; Sp. p. 3904; Gaz. vol. 171; p. 682.
Apron support, Storm-. J. B. Chandler. No. 1,005,598; Oct. 10; Sp. p. 2272; Gaz. vol. 171; p. 391.
Apron, Wire-cloth. A. W. Thompson. No. 987,415; Mar. 21; Sp. p. 3501; Gaz. vol. 164; p. 626.
Aquaplane. S. M. Howard. No. 989,604; Apr. 18; Sp. p. 2823; Gaz. vol. 165; p. 499.
Arbor-joint. H. S. Davis and J. C. Hayden. No. 1,000,238; Aug. 8; Sp. p. 2166; Gaz. vol. 169; p. 386.
Arc rectifier, High-voltage mercury-. O. O. Kruh. No. 993,843; May 30; Sp. p. 6482; Gaz. vol. 166; p. 1168.
Arch-center. D. B. Luten. No. 1,005,051; Oct. 3; Sp. p. 1048; Gaz. vol. 171; p. 175.
Arch, Skew-. D. B. Luten. No. 1,004,051; Sept. 26; Sp. p. 4117; Gaz. vol. 170; p. 740.
Arch-support. L. Durieu. No. 985,666; Feb. 28; Sp. p. 5219; Gaz. vol. 163; p. 922.
Arch-support. J. Svenson. No. 989,823; Apr. 18; Sp. p. 3295; Gaz. vol. 165; p. 575.
Arch-support, Adjustable. A. E. Wittenberg. No. 1,006,164; Oct. 17; Sp. p. 3505; Gaz. vol. 171; p. 621.
Arch-support adjuster. J. W. Arrowsmith. No. 998,225; July 18; Sp. p. 3520; Gaz. vol. 168; p. 633.
Arch-support and foot-rest. J. E. Widman. No. 999,002; July 25; Sp. p. 5279; Gaz. vol. 168; p. 940.
Arch-supporter. T. Hughes and C. J. Walsh. No. 984,140; Feb. 14; Sp. p. 1918; Gaz. vol. 163; p. 330.
Arch-supporter. A. Quenzer. No. 987,599; Mar. 21; Sp. p. 3864; Gaz. vol. 164; p. 688.
Arch-supporter. F. W. Krech and R. C. Hansen. No. 988,942; Apr. 4; Sp. p. 1366; Gaz. vol. 165; p. 218.
Arch-supporter. O. Booth. No. 997,955; July 18; Sp. p. 2929; Gaz. vol. 168; p. 537.
Arch, vault, conduit, &c. D. B. Luten. No. 1,009,676; Nov. 21; Sp. p. 4524; Gaz. vol. 172; p. 779.
Archer's bow. G. C. Setchell. No. 982,748; Jan. 24; Sp. p. 5638; Gaz. vol. 162; p. 967.
Arm and hand, Artificial. W. T. Carnes. No. 999,484; Aug. 1; Sp. p. 569; Gaz. vol. 169; p. 100.
Arm and mitten, Flexible. C. Williamson. No. 1,010,558; Dec. 5; Sp. p. 344; Gaz. vol. 173; p. 55.
Arm-scye pad, Combination. A. M. Grean. No. 1,004,017; Sept. 26; Sp. p. 4019; Gaz. vol. 170; p. 727.
Armature. J. Coates. No. 994,058; May 30; Sp. p. 6896; Gaz. vol. 166; p. 1239.
Armature. S. A. Duvall. No. 994,303; June 6; Sp. p. 411; Gaz. vol. 167; p. 70.
Armature. B. P. and F. I. Remy. No. 998,635; July 25; Sp. p. 4433; Gaz. vol. 168; p. 811.
Armature-bander, Power. A. J. Hunter. No. 996,019; June 20; Sp. p. 4183; Gaz. vol. 167; p. 727.
Armature-core. J. D. Ihlder. No. 996,927; July 4; Sp. p. 678; Gaz. vol. 168; p. 112.
Armature for electric generators. J. Splitdorf. No. 1,004,599; Oct. 3; Sp. p. 109; Gaz. vol. 171; p. 19.
Armature for magneto-electric machines. C. A. Pfanstiehl. No. 983,308; Feb. 7; Sp. p. 111; Gaz. vol. 163; p. 20.
Armature-housings, Manufacture of. C. A. Pfanstiehl. No. 985,700; Feb. 28; Sp. p. 5336; Gaz. vol. 163; p. 935.
Armature, Magneto-dynamo. R. H. Cunningham. No. 985,981; Mar. 7; Sp. p. 490; Gaz. vol. 164; p. 78.
Armature-winding for electric motors. J. E. Webster. No. 999,928; Aug. 8; Sp. p. 1472; Gaz. vol. 169; p. 279.
Armor attachment, Submarine-. C. E. Macduffee. No. 989,531; Apr. 11; Sp. p. 2638; Gaz. vol. 165; p. 443.
Armor-plate. R. Ridolfi. No. 1,008,198; Nov. 7; Sp. p. 1178; Gaz. vol. 172; p. 193.
Armor-plate. H. Savage. No. 1,013,070; Dec. 26; Sp. p. 5949; Gaz. vol. 173; p. 1041.
Armor-plate bolt. G. Russo. No. 993,276; May 23; Sp. p. 5231; Gaz. vol. 166; p. 938.
Armor-plate, Making. L. H. Bowman. No. 996,558; June 27; Sp. p. 5392; Gaz. vol. 167; p. 944.
Armor-plates and other articles of steel or alloys of steel, Manufacture of cemented. F. Giolitti. No. 991,972; May 9; Sp. p. 2426; Gaz. vol. 166; p. 432.
Armor-plates, Making. S. S. Wales. No. 996,544; June 27; Sp. p. 5371; Gaz. vol. 167; p. 940.
Armor-plating. O. Schaumann. No. 1,007,144; Oct. 31; Sp. p. 5717; Gaz. vol. 171; p. 1048.
Armor, Submarine. C. E. Macduffee. No. 989,530; Apr. 11; Sp. p. 2629; Gaz. vol. 165; p. 443.
Article-holder. J. J. Walter. No. 1,005,490; Oct. 10; Sp. p. 2000; Gaz. vol. 171; p. 352.
Article-retaining means. L. S. Adelson. No. 981,603; Jan. 17; Sp. p. 3216; Gaz. vol. 162; p. 546.
Asbestos-cement slabs and the like, Apparatus for making. F. Hloch. No. 1,005,706; Oct. 10; Sp. p. 2498; Gaz. vol. 171; p. 428.
Asbestos-separator. F. S. McKay. No. 1,010,779; Dec. 5; Sp. p. 853; Gaz. vol. 173; p. 133.
Ash-discharger. F. P. Palen and W. Burlingham. No. 986,208; Mar. 7; Sp. p. 938; Gaz. vol. 164; p. 152.
Ash-dumper. C. P. Dressel. No. 997,183; July 4; Sp. p. 1236; Gaz. vol. 168; p. 200.
Ash-ejector, Under-water. J. F. Metten. No. 990,369; Apr. 25; Sp. p. 4478; Gaz. vol. 165; p. 792.
Ash-hoist construction. A. Sundh. No. 1,011,266; Dec. 12; Sp. p. 1958; Gaz. vol. 173; p. 337.
Ash-pan. G. Spratley. No. 992,696; May 16; Sp. p. 3991; Gaz. vol. 166; p. 712.
Ash-pan. O. G. Samuelson and H. R. Lindquist. No. 995,913; June 20; Sp. p. 3973; Gaz. vol. 167; p. 690.
Ash-pan. R. B. Kendig. No. 996,093; June 27; Sp. p. 4348; Gaz. vol. 167; p. 787.
Ash-pan. M. Hanna, Jr. No. 1,003,402; Sept. 12; Sp. p. 2640; Gaz. vol. 170; p. 454.
Ash-pan and detachable bail therefor. O. J. Mortenson. No. 980,990; Jan. 10; Sp. p. 1856; Gaz. vol. 162; p. 310.
Ash-sifting shovel. G. Hollinshed. No. 1,007,202; Oct. 31; Sp. p. 5854; Gaz. vol. 171; p. 1069.
Ash-sifting shovel. C. F. Hoffman. No. 1,007,566; Oct. 31; Sp. p. 6632; Gaz. vol. 171; p. 1195.
Ash-trap. S. F. Myers. No. 988,372; Apr. 4; Sp. p. 178; Gaz. vol. 165; p. 30.
Ash-trap for grate-fires. W. W. Jackson. No. 1,004,268; Sept. 26; Sp. p. 4606; Gaz. vol. 170; p. 814.
Ashes and sand distributing device. S. M. Lampke. No. 991,790; May 9; Sp. p. 2048; Gaz. vol. 166; p. 369.
Ashes-elevator, Telescopic. F. Grotenrath. No. 989,143; Apr. 11; Sp. p. 1785; Gaz. vol. 165; p. 310.
Asparagus-harvesting tool. A. A. Smith. No. 986,773; Mar. 14; Sp. p. 2155; Gaz. vol. 164; p. 375.
Asphalt-distributer. W. P. Tarrant. No. 1,009,805; Nov. 28; Sp. p. 4806; Gaz. vol. 172; p. 870.
Asphalt, Manufacture of. C. B. Forward. No. 998,569; July 18; Sp. p. 4267; Gaz. vol. 168; p. 754.
Asphalt plant, Portable. C. E. Guelich. No. 1,007,689; Nov. 7; Sp. p. 70; Gaz. vol. 172; p. 13.
Asphalt-press. G. E. Whitney. No. 1,007,831; Nov. 7; Sp. p. 412; Gaz. vol. 172; p. 64.
Asphalt solutions for the production of asphalt cement and the recovery of the lighter products, Apparatus for and method of treating. F. H. Dunham. No. 1,003,040; Sept. 12; Sp. p. 1896; Gaz. vol. 170; p. 327.
Associating and binding machine. R. C. Seymour. No. 1,011,864; Dec. 12; Sp. p. 3284; Gaz. vol. 173; p. 546.
Atmospheric engine. A. Holm. No. 991,989; May 9; Sp. p. 2460; Gaz. vol. 166; p. 437.
Atomizer. J. S. Thurman. No. 982,903; Jan. 31; Sp. p. 5991; Gaz. vol. 162; p. 1050.
Atomizer. G. Baujard. No. 985,500; Feb. 28; Sp. p. 4880; Gaz. vol. 163; p. 866.
Atomizer. J. R. Ballentine. No. 990,949; May 2; Sp. p. 261; Gaz. vol. 166; p. 46.
Atomizer, Liquid-. K. M. Dahl. No. 1,008,119; Nov. 7; Sp. p. 1014; Gaz. vol. 172; p. 164.
Atomizer, Liquid-. K. M. Dahl. No. 1,011,036; Dec. 5; Sp. p. 1387; Gaz. vol. 173; p. 221.
Atomizer or humidifier. W. P. Wood and F. Dupuis. No. 1,005,094; Oct. 3; Sp. p. 1118; Gaz. vol. 171; p. 189.
Atomizer or spraying device. E. H. Peabody. No. 1,007,793; Nov. 7; Sp. p. 331; Gaz. vol. 172; p. 51.
Atomizer or spraying device. E. H. Peabody. No. 1,007,794; Nov. 7; Sp. p. 333; Gaz. vol. 172; p. 52.
Atomizer or spraying device. E. H. Peabody. No. 1,007,795; Nov. 7; Sp. p. 335; Gaz. vol. 172; p. 52.
Atomizer or volatilizer. G. H. Goldsmith and J. C. Rankine. No. 992,348; May 16; Sp. p. 3287; Gaz. vol. 166; p. 592.
Attaching clamp or bond. G. Lidseen. No. 988,001; Mar. 28; Sp. p. 4799; Gaz. vol. 164; p. 856.
Attachment-securing means. M. G. Swan. No. 1,009,266; Nov. 21; Sp. p. 3668; Gaz. vol. 172; p. 639.
Attrition-mill plate. B. W. Harris. No. 984,664; Feb. 21; Sp. p. 3069; Gaz. vol. 163; p. 543.
Auditoriums, Safety apparatus for amusement or other. J. H. Crosier. No. 1,000,154; Aug. 8; Sp. p. 1986; Gaz. vol. 169; p. 356.
Auditor's report, Combination. N. F. Garbo. No. 985,994; Mar. 7; Sp. p. 521; Gaz. vol. 164; p. 82.
Auger and reamer, Combined. J. C. Knuckles. No. 998,534; July 18; Sp. p. 4192; Gaz. vol. 168; p. 743.
Auger-bit. J. W. Caldwell. No. 996,612; July 4; Sp. p. 26; Gaz. vol. 168; p. 7.
Auger-bit. A. L. Jennings. No. 1,004,572; Oct. 3; Sp. p. 52; Gaz. vol. 171; p. 10.
Auger cutter-head, Earth-boring-. P. A. Bouchet. No. 996,450; June 27; Sp. p. 5191; Gaz. vol. 167; p. 910.
Auger, Earth-. G. T. Stott. No. 993,903; May 30; Sp. p. 6582; Gaz. vol. 166; p. 1186.
Auger, Earth-. F. H. Chase. No. 1,004,242; Sept. 26; Sp. p. 4560; Gaz. vol. 170; p. 806.
Auger, Extending. S. Popky. No. 1,010,314; Nov. 28; Sp. p. 5844; Gaz. vol. 172; p. 1041.

Alphabetical list of inventions—Continued.

Auger, Faucet-. S. N. Ross. No. 1,006,008; Oct. 17; Sp. p. 3151; Gaz. vol. 171; p. 566.
Auger-gage. F. J. Lilak. No. 1,002,715; Sept. 5; Sp. p. 1197; Gaz. vol. 170; p. 178.
Auger, Post-hole. R. H. Vesey. No. 980,853; Jan. 3; Sp. p. 1435; Gaz. vol. 162; p. 230.
Auger, Post-hole. J. G. Mahon and C. E. Olschner. No. 983,455; Feb. 7; Sp. p. 427; Gaz. vol. 163; p. 68.
Auto drive mechanism. B. W. Janssen. No. 995,009; June 13; Sp. p. 2012; Gaz. vol. 167; p. 353.
Autographic register. H. A. Thexton. No. 980,702; Jan. 3; Sp. p. 1133; Gaz. vol. 162; p. 181.
Autographic register. A. Krauth. No. 987,243; Mar. 21; Sp. p. 3136; Gaz. vol. 164; p. 567.
Autographic register. P. Hano. No. 991,979; May 9; Sp. p. 2444; Gaz. vol. 166; p. 434.
Autographic register. C. H. Wilson and J. Bengough. No. 992,317; May 16; Sp. p. 3199; Gaz. vol. 166; p. 581.
Autographic register. S. R. Shoup. No. 998,209; July 18; Sp. p. 3477; Gaz. vol. 168; p. 626.
Automatic alarm. A. C. Farley and W. B. McDonald. No. 998,485; July 18; Sp. p. 4096; Gaz. vol. 168; p. 726.
Automatic alarm. C. Centoni. No. 1,012,812; Dec. 26; Sp. p. 5374; Gaz. vol. 173; p. 954.
Automatic coupling. P. H. Shailer. No. 984,609; Feb. 21; Sp. p. 2957; Gaz. vol. 163; p. 525.
Automatic coupling. H. C. Newman. No. 1,009,554; Nov. 21; Sp. p. 4303; Gaz. vol. 172; p. 741.
Automatic coupling for all rolling-stock. W. H. Appleby. No. 991,467; May 9; Sp. p. 1371; Gaz. vol. 166; p. 259.
Automatic cup. B. Gabler. No. 982,585; Jan. 24; Sp. p. 5303; Gaz. vol. 162; p. 914.
Automatic fender. G. L. Wheeler. No. 998,141; July 18; Sp. p. 3346; Gaz. vol. 168; p. 603.
Automatic fender. G. Hipwood. No. 1,012,637; Dec. 26; Sp. p. 4967; Gaz. vol. 173; p. 893.
Automatic fountain. C. E. Burdette. No. 997,268; July 11; Sp. p. 1415; Gaz. vol. 168; p. 260.
Automatic gate. L. A. Laas. No. 995,262; June 13; Sp. p. 2517; Gaz. vol. 167; p. 435.
Automatic lubricator. G. F. Rath. No. 1,011,369; Dec. 12; Sp. p. 2192; Gaz. vol. 173; p. 373.
Automatic reel for wire, &c. A. W. Starck. No. 988,905; Apr. 4; Sp. p. 1282; Gaz. vol. 165; p. 206.
Automatic regulator. E. C. Newcomb. No. 981,104; Jan. 10; Sp. p. 2118; Gaz. vol. 162; p. 350.
Automatic regulator. I. Wright, Jr. No. 982,026; Jan. 17; Sp. p. 4147; Gaz. vol. 162; p. 692.
Automatic regulator and cut-off. A. E. Westburg and G. H. Bates. No. 1,010,834; Dec. 5; Sp. p. 971; Gaz. vol. 173; p. 151.
Automatic screen. W. M. Thompson. No. 1,008,499; Nov. 14; Sp. p. 1976; Gaz. vol. 172; p. 338.
Automatic sprinkler. G. I. Rockwood. No. 990,780; Apr. 25; Sp. p. 5420; Gaz. vol. 165; p. 935.
Automatic sprinkler. H. P. Tank. No. 995,498; June 20; Sp. p. 3054; Gaz. vol. 167; p. 545.
Automatic switch. C. R. Bailey. No. 982,410; Jan. 24; Sp. p. 4931; Gaz. vol. 162; p. 854.
Automatic switch. J. B. Schug. No. 985,069; Feb. 21; Sp. p. 3876; Gaz. vol. 163; p. 684.
Automatic switch. V. C. Pickle. No. 990,900; May 2; Sp. p. 152; Gaz. vol. 166; p. 29.
Automatic switch. J. B. Turner. No. 993,476; May 30; Sp. p. 5679; Gaz. vol. 166; p. 1039.
Automatic switch. A. B. Strohm. No. 993,804; May 30; Sp. p. 6397; Gaz. vol. 166; p. 1153.
Automatic switch. F. E. Hughes. No. 994,161; June 6; Sp. p. 119; Gaz. vol. 167; p. 21.
Automatic switch. C. F. Eldridge and L. W. Steckenrider. No. 994,729; June 13; Sp. p. 1372; Gaz. vol. 167; p. 256.
Automatic switch. H. Shemwell. No. 998,644; July 25; Sp. p. 4453; Gaz. vol. 168; p. 814.
Automatic switch. E. F. Bubb. No. 1,004,981; Oct. 3; Sp. p. 915; Gaz. vol. 171; p. 151.
Automatic switch. J. L. Polk. No. 1,007,386; Oct. 31; Sp. p. 6235; Gaz. vol. 171; p. 1134.
Automatically-opening die. F. A. Errington. No. 1,007,189; Oct. 31; Sp. p. 5830; Gaz. vol. 171; p. 1064.
Automatically-releasing hook. S. Ashdown. No. 992,746; May 23; Sp. p. 4102; Gaz. vol. 166; p. 759.
Automobile. A. W. Benjamin. No. 980,185; Jan. 3; Sp. p. 16; Gaz. vol. 162; p. 5.
Automobile. J. H. McElroy. No. 980,313; Jan. 3; Sp. p. 250; Gaz. vol. 162; p. 47.
Automobile. L. Herman. No. 990,263; Apr. 25; Sp. p. 4234; Gaz. vol. 165; p. 755.
Automobile. I. Smyth. No. 995,037; June 13; Sp. p. 2067; Gaz. vol. 167; p. 361.
Automobile. E. Koeb and R. P. Thompson. No. 995,155; June 13; Sp. p. 2315; Gaz. vol. 167; p. 401.
Automobile. C. W. Duer. No. 997,975; July 18; Sp. p. 2967; Gaz. vol. 168; p. 544.
Automobile. M. B. Morgan. No. 1,001,063; Aug. 22; Sp. p. 4036; Gaz. vol. 169; p. 742.
Automobile. J. L. Johnson. No. 1,002,915; Sept. 12; Sp. p. 1657; Gaz. vol. 170; p. 286.
Automobile. H. Mayer. No. 1,003,768; Sept. 19; Sp. p. 3455; Gaz. vol. 170; p. 615.
Automobile. C. F. Rodin. No. 1,004,907; Oct. 3; Sp. p. 794; Gaz. vol. 171; p. 127.
Automobile. W. L. Miggett. No. 1,005,863; Oct. 17; Sp. p. 2835; Gaz. vol. 171; p. 516.
Automobile accessory. L. and G. Gans. No. 985,338; Feb. 28; Sp. p. 4501; Gaz. vol. 163; p. 810.
Automobile-alarm, Phonographic. J. H. Erickson. No. 1,001,830; Aug. 29; Sp. p. 5623; Gaz. vol. 169; p. 1030.
Automobile attachment. H. M. Carroll. No. 981,914; Jan. 17; Sp. p. 3891; Gaz. vol. 162; p. 653.
Automobile attachment. C. R. West. No. 983,103; Jan. 31; Sp. p. 6428; Gaz. vol. 162; p. 1117.
Automobile attachment. C. R. West. No. 986,613; Mar. 14; Sp. p. 1819; Gaz. vol. 164; p. 322.
Automobile attachment. J. A. Wilkinson. No. 998,314; July 18; Sp. p. 3757; Gaz. vol. 168; p. 668.
Automobile body construction. L. M. Fuller. No. 982,422; Jan. 24; Sp. p. 4962; Gaz. vol. 162; p. 858.
Automobile-brake. W. Besler. No. 1,004,733; Oct. 3; Sp. p. 403; Gaz. vol. 171; p. 67.
Automobile-buffer. A. L. McGregor. No. 992,228; May 16; Sp. p. 2983; Gaz. vol. 166; p. 549.
Automobile-buffer. A. L. McGregor. No. 1,010,661; Dec. 5; Sp. p. 574; Gaz. vol. 173; p. 92.
Automobile changeable-drive mechanism. C. R. Basford. No. 994,367; June 6; Sp. p. 555; Gaz. vol. 167; p. 94.
Automobile clutch control. E. Havens. No. 980,777; Jan. 3; Sp. p. 1279; Gaz. vol. 162; p. 206.
Automobile construction. W. Kelly. No. 997,561; July 11; Sp. p. 1992; Gaz. vol. 168; p. 356.
Automobile controlling device. J. Eckhard. No. 982,177; Jan. 17; Sp. p. 4429; Gaz. vol. 162; p. 742.
Automobile controlling mechanism. H. E. Coffin. No. 1,007,673; Nov. 7; Sp. p. 28; Gaz. vol. 172; p. 8.
Automobile coupling attachment. W. T. Childs. No. 994,374; June 6; Sp. p. 571; Gaz. vol. 167; p. 98.
Automobile-crank. I. L. Robblee. No. 997,702; July 11; Sp. p. 2302; Gaz. vol. 168; p. 407.
Automobile cranking apparatus. T. J. Roberts. No. 1,004,201; Sept. 26; Sp. p. 4476; Gaz. vol. 170; p. 792.
Automobile cranking device. S. Wohldt. No. 987,528; Mar. 21; Sp. p. 3714; Gaz. vol. 164; p. 663.
Automobile cranking device. J. A. Schmidtmeier. No. 993,885; May 30; Sp. p. 6554; Gaz. vol. 166; p. 1181.
Automobile cranking device. W. A. Long. No. 995,613; June 20; Sp. p. 3323; Gaz. vol. 167; p. 585.
Automobile cranking device. J. S. Clarke. No. 1,006,063; Oct. 17; Sp. p. 3268; Gaz. vol. 171; p. 585.
Automobile cranking device, Electric. E. A. Scott. No. 1,001,174; Aug. 22; Sp. p. 4247; Gaz. vol. 169; p. 777.
Automobile cranking means. J. B. Castle. No. 991,135; May 2; Sp. p. 653; Gaz. vol. 166; p. 111.
Automobile cranking mechanism. J. P. Petit. No. 1,006,401; Oct. 17; Sp. p. 4045; Gaz. vol. 171; p. 404.
Automobile differential gearing. J. Demmler. No. 997,606; July 11; Sp. p. 2086; Gaz. vol. 168; p. 372.
Automobile door-lock. H. M. Mink. No. 985,433; Feb. 28; Sp. p. 4732; Gaz. vol. 163; p. 841.
Automobile door opening and closing attachment. S. J. Way. No. 986,880; Mar. 14; Sp. p. 2393; Gaz. vol. 164; p. 414.
Automobile driving mechanism. H. K. Holsman. No. 998,002; July 18; Sp. p. 3032; Gaz. vol. 168; p. 554.
Automobile emergency-brake. L. L. Lesoine. No. 994,263; June 6; Sp. p. 331; Gaz. vol. 167; p. 57.
Automobile-engine. F. S. Yale. No. 999,941; Aug. 8; Sp. p. 1497; Gaz. vol. 169; p. 284.
Automobile engine-starting apparatus. R. E. Gutig. No. 982,596; Jan. 24; Sp. p. 5321; Gaz. vol. 162; p. 917.
Automobile engine-starting apparatus. G. S. Thompson and R. Netter. No. 987,930; Mar. 28; Sp. p. 4629; Gaz. vol. 164; p. 831.
Automobile, Farm-. T. J. Thorp. No. 988,287; Mar. 28; Sp. p. 5366; Gaz. vol. 164; p. 950.
Automobile-fender. G. W. De Clements. No. 982,577; Jan. 24; Sp. p. 5280; Gaz. vol. 162; p. 911.
Automobile-fender. H. D. Barnes. No. 1,002,114; Aug. 29; Sp. p. 6211; Gaz. vol. 169; p. 1123.
Automobile-fender. W. Snyder. No. 1,007,150; Oct. 31; Sp. p. 5731; Gaz. vol. 171; p. 1050.
Automobile-fender. G. P. Schaurer. No. 1,009,187; Nov. 21; Sp. p. 3454; Gaz. vol. 172; p. 610.
Automobile-fender. W. B. Cole. No. 1,009,224; Nov. 21; Sp. p. 3579; Gaz. vol. 172; p. 625.
Automobile-fender, Automatic. W. A. Lindquist. No. 1,009,158; Nov. 21; Sp. p. 3388; Gaz. vol. 172; p. 599.
Automobile fender-brace. J. Lachki. No. 999,804; Aug. 8; Sp. p. 1211; Gaz. vol. 169; p. 238.
Automobile-heater. C. S. Pelton. No. 996,130; June 27; Sp. p. 4424; Gaz. vol. 167; p. 801.
Automobile-heater. L. A. Brigel. No. 996,699; July 4; Sp. p. 208; Gaz. vol. 168; p. 36.
Automobile-heater. F. W. Dilks, D. Reyam, and E. E. Du Pont. No. 999,487; Aug. 1; Sp. p. 576; Gaz. vol. 169; p. 100.
Automobile-heater. O. Cullman. No. 1,009,052; Nov. 21; Sp. p. 3178; Gaz. vol. 172; p. 564.
Automobile hoist and turn-table. L. S. Hackney. No. 1,003,735; Sept. 19; Sp. p. 3382; Gaz. vol. 170; p. 604.
Automobile-hood. H. G. Baum. No. 1,010,844; Dec. 5; Sp. p. 994; Gaz. vol. 173; p. 155.
Automobile hood-fastener. C. C. Kusterer. No. 1,012,658; Dec. 26; Sp. p. 5009; Gaz. vol. 173; p. 899.

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Automobile hood-lock. D. F. Ebbert. No. 1,004,154; Sept. 26; Sp. p. 4382; Gaz. vol. 170; p. 776.
Automobile-horn. G. Braf, A. Girardi, G. and S. Occhinto. No. 981,526; Jan. 10; Sp. p. 3053; Gaz. vol. 162; p. 498.
Automobile-horn. F. Vsetecka. No. 1,001,101; Aug. 22; Sp. p. 4119; Gaz. vol. 169; p. 755.
Automobile-horns and the like, Bulb for. A. Cléret. No. 1,011,158; Dec. 12; Sp. p. 1702; Gaz. vol. 173; p. 299.
Automobile-jack. W. F. Schreiber. No. 985,292; Feb. 28; Sp. p. 4417; Gaz. vol. 163; p. 795.
Automobile-jack. J. C. Moore. (Reissue.) No. 13,251; May 30; Sp. p. 7020; Gaz. vol. 166; p. 1261.
Automobile-jack. J. B. Foster. No. 1,005,528; Oct. 10; Sp. p. 2079; Gaz. vol. 171; p. 366.
Automobile jack and tire-rest. L. C. Gracy. No. 981,852; Jan. 17; Sp. p. 3738; Gaz. vol. 162; p. 632.
Automobile lamp-moving mechanism. R. C. Bogue. No. 1,002,490; Sept. 5; Sp. p. 701; Gaz. vol. 170; p. 102.
Automobile lifting-jack. G. C. Hale. No. 1,008,138; Nov. 7; Sp. p. 1048; Gaz. vol. 172; p. 170.
Automobile-lock. C. R. Parker and R. D. Wirt. No. 991,014; May 2; Sp. p. 394; Gaz. vol. 166; p. 67.
Automobile-lock. C. R. Parker and R. D. Wirt. No. 992,444; May 16; Sp. p. 3472; Gaz. vol. 166; p. 625.
Automobile-lock. C. R. Parker and R. D. Wirt. No. 993,544; May 30; Sp. p. 5826; Gaz. vol. 166; p. 1063.
Automobile-lock. W. G. Sachs and C. W. Landers. No. 1,009,931; Nov. 28; Sp. p. 5051; Gaz. vol. 172; p. 912.
Automobile-motors and other mechanism, Device for locating the defectively-operating parts in. L. B. Gaylor. No. 999,496; Aug. 1; Sp. p. 596; Gaz. vol. 169; p. 103.
Automobile-muffler. C. G. Boeck. No. 1,002,801; Sept. 5; Sp. p. 1367; Gaz. vol. 170; p. 208.
Automobile-muffler. C. G. Boeck. No. 1,002,802; Sept. 5; Sp. p. 1369; Gaz. vol. 170; p. 208.
Automobile non-skid device. O. Rash. No. 990,005; Apr. 18; Sp. p. 3679; Gaz. vol. 165; p. 637.
Automobile number-displaying device. F. Robinson. No. 997,469; July 11; Sp. p. 1802; Gaz. vol. 168; p. 326.
Automobile pivot-light. H. C. Frandsen. No. 988,563; Apr. 4; Sp. p. 581; Gaz. vol. 165; p. 94.
Automobile power mechanism. E. E. Sappington. No. 993,556; May 30; Sp. p. 5855; Gaz. vol. 166; p. 1067.
Automobile power-motor. C. A. Woods. No. 1,003,567; Sept. 19; Sp. p. 3024; Gaz. vol. 170; p. 545.
Automobile power-transmitting device. B. Tully. No. 995,641; June 20; Sp. p. 3386; Gaz. vol. 167; p. 596.
Automobile-radiator. H. Hager. No. 1,000,259; Aug. 8; Sp. p. 2206; Gaz. vol. 169; p. 392.
Automobile-radiator. J. H. Graham. No. 1,006,747; Oct. 24; Sp. p. 4811; Gaz. vol. 171; p. 855.
Automobile-radiator cooling-tube. E. and H. Behringer. No. 989,756; Apr. 18; Sp. p. 3131; Gaz. vol. 165; p. 551.
Automobile radiator-support. D M. Livingston and C. W. Fairbank. No. 988,119; Mar. 28; Sp. p. 5041; Gaz. vol. 164; p. 894.
Automobile rain and wind shield. A. K. Gilson. No. 1,011,940; Dec. 19; Sp. p. 3471; Gaz. vol. 173; p. 608.
Automobile rim-holding and tire-pumping device. E. C. McCullough. No. 996,870; July 4; Sp. p. 562; Gaz. vol. 168; p. 92.
Automobile running-gear. J. B. Bostian. No. 980,589; Jan. 3; Sp. p. 893; Gaz. vol. 162; p. 144.
Automobile running-gear. C. C. and C. B. Jones. No. 995,873; June 20; Sp. p. 3898; Gaz. vol. 167; p. 677.
Automobile running-gear. D. C. Cookingham and J. H. Hertner. No. 1,007,645; Oct. 31; Sp. p. 6795; Gaz. vol. 171; p. 1222.
Automobile safety appliance. E. L. Robertson. No. 1,011,852; Dec. 12; Sp. p. 3267; Gaz. vol. 173; p. 542.
Automobile safety-fender. I. Ksiazek. No. 986,832; Mar. 14; Sp. p. 2285; Gaz. vol. 164; p. 396.
Automobile-shed. J. J. Richter. No. 980,837; Jan. 3; Sp. p. 1409; Gaz. vol. 162; p. 226.
Automobile shipping-case. C. F. Flemming. No. 982,046; Jan. 17; Sp. p. 4192; Gaz. vol. 162; p. 699.
Automobile sign-holder. F. Coryell. (Reissue.) No. 13,291; Sept. 19; Sp. p. 3897; Gaz. vol. 170; p. 684.
Automobile signaling mechanism. F. H. Krewson. No. 1,001,203; Aug. 29; Sp. p. 4320; Gaz. vol. 169; p. 787.
Automobile sleigh. L. Norman. No. 996,119; June 27; Sp. p. 4398; Gaz. vol. 167; p. 796.
Automobile sleighing attachment. M. Olson. No. 1,006,265; Oct. 17; Sp. p. 3742; Gaz. vol. 171; p. 658.
Automobile spindle device. H. Walker. No. 989,457; Apr. 11; Sp. p. 2459; Gaz. vol. 165; p. 416.
Automobile-spring. C. A. Tilt. No. 988,229; Mar. 28; Sp. p. 5248; Gaz. vol. 164; p. 931.
Automobile spring-clamp. O. T. Hawkins. No. 1,009,410; Nov. 21; Sp. p. 4008; Gaz. vol. 172; p. 692.
Automobile spring-wheel. F. J. Maccarthy. No. 993,388; May 30; Sp. p. 5485; Gaz. vol. 166; p. 1010.
Automobile-starter. F. G. McKlveen and L. W. Naylor. No. 982,382; Jan. 24; Sp. p. 4879; Gaz. vol. 162; p. 845.
Automobile-starter. A. H. Burns. No. 998,836; July 25; Sp. p. 4894; Gaz. vol. 168; p. 881.
Automobile-starter. S. J. Gill. No. 1,007,094; Oct. 31; Sp. p. 5595; Gaz. vol. 171; p. 1029.
Automobile starting-crank. L. Michaels. No. 984,014; Feb. 14; Sp. p. 1665; Gaz. vol. 163; p. 287.
Automobile starting device. C. B. Wilcox. No. 989,678; Apr. 18; Sp. p. 2977; Gaz. vol. 165; p. 524.
Automobile starting-device clutch. J. C. Boyle. No. 1,009,219; Nov. 21; Sp. p. 3563; Gaz. vol. 172; p. 622.
Automobile starting mechanism. L. M. Jensen. No. 984,432; Feb. 14; Sp. p. 2534; Gaz. vol. 163; p. 429.
Automobile steering apparatus. H. J. Hert. No. 980,636; Jan. 3; Sp. p. 975; Gaz. vol. 162; p. 159.
Automobile steering-gear. C. B. King. No. 1,012,562; Dec. 19; Sp. p. 4790; Gaz. vol. 173; p. 822.
Automobile steering-mechanism lock. G. W. Benton. No. 1,004,973; Oct. 3; Sp. p. 902; Gaz. vol. 171; p. 149.
Automobile steering-wheel. J. J. Slepicka. No. 990,915; May 2; Sp. p. 186; Gaz. vol. 166; p. 34.
Automobile storage-jack. W. H. Hattel. No. 997,497; July 11; Sp. p. 1858; Gaz. vol. 168; p. 335.
Automobile suspension. E. Schorr. No. 1,007,313; Oct. 31; Sp. p. 6072; Gaz. vol. 171; p. 1108.
Automobile tail-light and illuminated number, Combined. F. S. Stafford. No. 983,946; Feb. 14; Sp. p. 1506; Gaz. vol. 163; p. 265.
Automobile tire-trunk. I. S. Kallis and J. Berg. No. 990,745; Apr. 25; Sp. p. 5346; Gaz. vol. 165; p. 922.
Automobile tire-trunk. I. S. Kallis and J. Berg. No. 990,746; Apr. 25; Sp. p. 5347; Gaz. vol. 165; p. 922.
Automobile-top. J. V. Mitchell. No. 988,204; Mar. 28; Sp. p. 5196; Gaz. vol. 164; p. 922.
Automobile top attachment. J. C. Munday. No. 1,008,666; Nov. 14; Sp. p. 2354; Gaz. vol. 172; p. 397.
Automobile top-holder. J. Parkinson. No. 991,167; May 2; Sp. p. 725; Gaz. vol. 166; p. 123.
Automobile transmission-gearing. E. S. and R. M. Marsh. No. 994,017; May 30; Sp. p. 6824; Gaz. vol. 166; p. 1225.
Automobile-wheel. J. S. Draper. No. 982,130; Jan. 17; Sp. p. 4351; Gaz. vol. 162; p. 727.
Automobile-wheel. L. Conrad. No. 985,112; Feb. 21; Sp. p. 3949; Gaz. vol. 163; p. 698.
Automobile-wheel. T. N. Hayden. No. 990,867; May 2; Sp. p. 92; Gaz. vol. 166; p. 17.
Automobile-wheel. J. H. Andrews and J. W. Broski. No. 991,045; May 2; p. 451; Gaz. vol. 166; p. 78.
Automobile-wheel. W. A. McCauley. No. 994,418; June 6; Sp. p. 660; Gaz. vol. 167; p. 113.
Automobile-wheel. A. W. Wilt. No. 999,689; Aug. 1; Sp. p. 967; Gaz. vol. 169; p. 169.
Automobile-wheel. J. J. Messerli. No. 1,002,727; Sept. 5; Sp. p. 1230; Gaz. vol. 170; p. 183.
Automobile-wheel. A. Saltzer. No. 1,002,873; Sept. 12; Sp. p. 1555; Gaz. vol. 170; p. 270.
Automobile-wheel. C. S. Myers. No. 1,009,088; Nov. 21; Sp. p. 3258; Gaz. vol. 172; p. 576.
Automobile-wheel. C. W. Tompkins. No. 1,009,942; Nov. 28; Sp. p. 5079; Gaz. vol. 172; p. 915.
Automobile wheel and hub. C. Reynolds. No. 988,815; Apr. 4; Sp. p. 1122; Gaz. vol. 165; p. 179.
Automobile wheel-guard. N. Krell. No. 1,007,878; Nov. 7; Sp. p. 531; Gaz. vol. 172; p. 80.
Automobile wheel-help. G. Sprung. No. 986,099; Mar. 7; Sp. p. 729; Gaz. vol. 164; p. 117.
Automobile-wheel with pneumatic and spring hub. C. E. Wade and C. J. Lagerwall. No. 995,502; June 20; Sp. p. 3061; Gaz. vol. 167; p. 546.
Automobile wind-shield. A. B. Thomas. No. 999,350; Aug. 1; Sp. p. 307; Gaz. vol. 169; p. 55.
Automobile wind-shield, Folding. O. E. Byron. No. 994,121; June 6; Sp. p. 37; Gaz. vol. 167; p. 9.
Automobiles and other machinery, Cranking device for. E. A. Feiring. No. 1,007,654; Oct. 31; Sp. p. 6816; Gaz. vol. 171; p. 1225.
Automobiles and other vehicles, Door for. F. England. No. 1,008,805; Nov. 14; Sp. p. 2656; Gaz. vol. 172; p. 446.
Automobiles and other vehicles in case of accident, Stalling device for. L. O'Brien. No. 997,409; July 11; Sp. p. 1693; Gaz. vol. 168; p. 307.
Automobiles and other vehicles, Shock-absorber for. G. C. Martin. No. 1,002,416; Sept. 5; Sp. p. 539; Gaz. vol. 170; p. 76.
Automobiles and the like, Bracket-holder for. W. A. Schleicher. No. 1,001,459; Aug. 22; Sp. p. 4842; Gaz. vol. 169; p. 873.
Automobiles and the like, Starter for. J. C. Boyle. No. 1,009,276; Nov. 21; Sp. p. 3696; Gaz. vol. 172; p. 643.
Automobiles and to prevent injury from back-firing of engines, Mechanism for cranking. F. G. Preston. No. 985,837; Mar. 7; Sp. p. 162; Gaz. vol. 164; p. 28.
Automobiles, &c., Antiskidding device for. A. Hormel. No. 1,006,659; Oct. 24; Sp. p. 4631; Gaz. vol. 171; p. 826.
Automobiles, Auxiliary folding seat for. E. G. Pandow. No. 989,281; Apr. 11; Sp. p. 2092; Gaz. vol. 165; p. 357.
Automobiles, Combination turn-table and jack for. C. F. Sautter. No. 1,000,199; Aug. 8; Sp. p. 2091; Gaz. vol. 169; p. 372.
Automobiles, Combined tail-light and number for. D. S. Cake. No. 1,009,470; Nov. 21; Sp. p. 4127; Gaz. vol. 172; p. 712.
Automobiles, Differential driving-gearing for. J. L. Morris. No. 998,628; July 25; Sp. p. 4414; Gaz. vol. 168; p. 808.

Alphabetical list of inventions—Continued.

Automobiles, Dust-protector and packing device for. J. K. Smith. No. 999,620; Aug. 1; Sp. p. 834; Gaz. vol. 169; p. 146.
Automobiles, Electric lamplighting device for. H. H. Kanagy. No. 995,681; June 20; Sp. p. 3462; Gaz. vol. 167; p. 610.
Automobiles, Electromagnetic power-velocity-ratio device for driving. A. H. Midgley and C. A. Vandervell. No. 993,611; May 30; Sp. p. 5971; Gaz. vol. 166; p. 1087.
Automobiles, Elevated support for. B. Johnson. No. 1,005,551; Oct. 10; Sp. p. 2138; Gaz. vol. 171; p. 375.
Automobiles, Front-wheel drive for. P. Turon. No. 1,012,936; Dec. 26; Sp. p. 5668; Gaz. vol. 173; p. 995.
Automobiles, Hydraulic transmission mechanism for. C. J. Coleman. No. 993,652; May 30; Sp. p. 6063; Gaz. vol. 166; p. 1101.
Automobiles, Power-transmission attachment for. E. Zybach and G. Braun. No. 982,756; Jan. 24; Sp. p. 5661; Gaz. vol. 162; p. 970.
Automobiles, Short-circuiting locking device for. R. D. Markham. No. 988,479; Apr. 4; Sp. p. 405; Gaz. vol. 165; p. 65.
Automobiles, &c., Signal for. G. L. Knowlton. No. 1,006,662; Oct. 24; Sp. p. 4638; Gaz. vol. 171; p. 827.
Automobiles, Tail-light and traffic-signal for. G. A. Robinson and F. Grinham. No. 996,144; June 27; Sp. p. 4450; Gaz. vol. 167; p. 805.
Automobiles, Testing-stand for. I. M. Uppercu. No. 984,050; Feb. 14; Sp. p. 1740; Gaz. vol. 163; p. 299.
Automobiles, Transmission-gearing for. D. P. Collins. No. 980,605; Jan. 3; Sp. p. 924; Gaz. vol. 162; p. 149.
Automobiles, Transmission-gearing for. C. W. Collins. No. 999,699; Aug. 1; Sp. p. 985; Gaz. vol. 169; p. 172.
Automobiles, Variable friction driving mechanism for. J. K. De Loach. No. 1,008,706; Nov. 14; Sp. p. 2437; Gaz. vol. 172; p. 412.
Automobilist's tool. F. S. Baird and W. Peters. No. 997,227; July 4; Sp. p. 1324; Gaz. vol. 168; p. 216.
Automotor, Turbine-driven. S. Z. de Ferranti. (Reissue.) No. 13,217; Mar. 14; Sp. p. 2790; Gaz. vol. 164; p. 483.
Automusical instrument, Electric. T. E. R. Phillips. No. 1,003,201; Sept. 12; Sp. p. 2236; Gaz. vol. 170; p. 384.
Autopiano key-lock. W. F. Bayer. No. 981,158; Jan. 10; Sp. p. 2239; Gaz. vol. 162; p. 370.
Autosleigh. P. F. D. Belliveau. No. 982,344; Jan. 24; Sp. p. 4794; Gaz. vol. 162; p. 830.
Auxiliary mounting. F. Hamilton. No. 997,289; July 11; Sp. p. 1466; Gaz. vol. 168; p. 268.
Auxiliary spring. W. A. Ross. No. 980,343; Jan. 3; Sp. p. 326; Gaz. vol. 162; p. 59.
Aviation-motor. F. G. and A. E. Dieterich. No. 990,712; Apr. 25; Sp. p. 5276; Gaz. vol. 165; p. 910.
Aviation supporting device. G. Barbaudy. No. 994,968; June 13; Sp. p. 1928; Gaz. vol. 167; p. 338.
Awl-controlling mechanism. A. Bates, A. E. Jerram, and J. Gouldbourn. No. 1,000,573; Aug. 15; Sp. p. 2923; Gaz. vol. 169; p. 535.
Awl, Embroidery-. M. W. Potter and H. M. Snell. No. 983,763; Feb. 7; Sp. p. 1084; Gaz. vol. 163; p. 174.
Awl for pricking heels. G. M. Pettengill. No. 999,182; July 25; Sp. p. 5621; Gaz. vol. 168; p. 999.
Awl-haft, Automatic-recoil. A. Wanlin. No. 1,008,226; Nov. 7; Sp. p. 1252; Gaz. vol. 172; p. 204.
Awl, Sewing-. G. P. Alten. No. 1,009,882; Nov. 28; Sp. p. 4962; Gaz. vol. 172; p. 896.
Awls, Making. L. A. Casgrain. No. 997,238; July 4; Sp. p. 1347; Gaz. vol. 168; p. 220.
Awning. G. Ross. No. 984,027; Feb. 14; Sp. p. 1698; Gaz. vol. 163; p. 292.
Awning. S. L. Paro and S. B. Hadsell. No. 986,852; Mar. 14; Sp. p. 2323; Gaz. vol. 164; p. 402.
Awning. L. Kasan. No. 992,668; May 16; Sp. p. 3935; Gaz. vol. 166; p. 701.
Awning. W. Connor. No. 1,001,930; Aug. 29; Sp. p. 5857; Gaz. vol. 169; p. 1064.
Awning. A. G. Schenicka. No. 1,002,460; Sept. 5; Sp. p. 641; Gaz. vol. 170; p. 92.
Awning. M. E. B. Williams. No. 1,011,688; Dec. 12; Sp. p. 2914; Gaz. vol. 173; p. 487.
Awning and arm therefor. F. A. Anton. No. 986,120; Mar. 7; Sp. p. 766; Gaz. vol. 164; p. 124.
Awning attachment. C. Richards. No. 989,422; Apr. 11; Sp. p. 2394; Gaz. vol. 165; p. 404.
Awning, Extensible. C. F. Winberg. No. 1,004,129; Sept. 26; Sp. p. 4314; Gaz. vol. 170; p. 767.
Awning-gearing. N. Roe. No. 1,006,404; Oct. 17; Sp. p. 4049; Gaz. vol. 171; p. 705.
Awning-roller support. L. A. Daus. No. 997,491; July 11; Sp. p. 1848; Gaz. vol. 168; p. 333.
Awning-support. L. E. Kennedy. No. 995,151; June 13; Sp. p. 2300; Gaz. vol. 167; p. 399.
Awning-supporter. P. P. Hopp. No. 989,709; Apr. 18; Sp. p. 3034; Gaz. vol. 165; p. 534.
Ax. P. J. Young. No. 994,628; June 6; Sp. p. 1091; Gaz. vol. 167; p. 181.
Ax. W. S. Robinson. No. 997,093; July 4; Sp. p. 1056; Gaz. vol. 168; p. 170.
Axiometer. C. M. Haynes. No. 996,017; June 20; Sp. p. 4177; Gaz. vol. 167; p. 726.
Axis-indicator. G. A. Bader. No. 981,832; Jan. 17; Sp. p. 3695; Gaz. vol. 162; p. 625.
Axle. J. A. Whitton. No. 982,403; Jan. 24; Sp. p. 4920; Gaz. vol. 162; p. 852.
Axle. W. M. Heun. No. 985,808; Mar. 7; Sp. p. 81; Gaz. vol. 164; p. 18.
Axle. B. A. Carlsen. No. 1,001,349; Aug. 22; Sp. p. 4631; Gaz. vol. 169; p. 837.
Axle. H. Tuller. No. 1,001,905; Aug. 29; Sp. p. 5799; Gaz. vol. 169; p. 1056.
Axle. P. M. Fink. No. 1,008,317; Nov. 14; Sp. p. 1500; Gaz. vol. 172; p. 275.
Axle and skein. J. R. Little. No. 1,005,440; Oct. 10; Sp. p. 1900; Gaz. vol. 171; p. 335.
Axle, Automobile-. L. B. Sharp. No. 1,001,697; Aug. 29; Sp. p. 5333; Gaz. vol. 169; p. 985.
Axle-bearing for vehicles, Spring. J. E. Simmons. No. 985,072; Feb. 21; Sp. p. 3879; Gaz. vol. 163; p. 685.
Axle, Car-. E. Hawks. No. 992,769; May 23; Sp. p. 4143; Gaz. vol. 166; p. 767.
Axle clip, Wagon-. H. C. Hart. No. 990,733; Apr. 25; Sp. p. 5320; Gaz. vol. 165; p. 918.
Axle-coupling, Railway. F. W. French. No. 1,009,402; Nov. 21; Sp. p. 3990; Gaz. vol. 172; p. 689.
Axle-coupling, Vehicle. C. A. Beblen. No. 1,010,217; Nov. 28; Sp. p. 5639; Gaz. vol. 172; p. 1009.
Axle, Differential car-. E. Deutsch. No. 989,131; Apr. 11; Sp. p. 1757; Gaz. vol. 165; p. 306.
Axle, Drive-. J. D. Maxwell. No. 994,019; May 30; Sp. p. 6829; Gaz. vol. 166; p. 1226.
Axle, Driving-. H. W. Alden. No. 1,007,260; Oct. 31; Sp. p. 5970; Gaz. vol. 171; p. 1090.
Axle for motor-vehicles, Motor-driven steering-. C. B. and C. B. Hatfield, Jr. No. 1,012,847; Dec. 26; Sp. p. 5459; Gaz. vol. 173; p. 966.
Axle for wagons, Front-bolster. S. K. Dennis. No. 1,010,600; Dec. 5; Sp. p. 455; Gaz. vol. 173; p. 70.
Axle, Hollow. C. M. Wales. No. 1,010,004; Nov. 28; Sp. p. 5218; Gaz. vol. 172; p. 936.
Axle journal-brass, Car-. F. A. McArthur. No. 998,914; July 25; Sp. p. 5071; Gaz. vol. 168; p. 910.
Axle-journal lubricator, Car-. J. C. Nichol. No. 989,995; Apr. 18; Sp. p. 3660; Gaz. vol. 165; p. 634.
Axle journals, Machine for turning car-. J. J. Acker. No. 1,007,412; Oct. 31; Sp. p. 6284; Gaz. vol. 171; p. 1143.
Axle-lubricator. J. N. Rickards. No. 984,854; Feb. 21; Sp. p. 3460; Gaz. vol. 163; p. 611.
Axle-lubricator. J. W. Jones. No. 990,361; Apr. 25; Sp. p. 4459; Gaz. vol. 165; p. 789.
Axle-lubricator. G. C. and J. F. Benjamin. No. 1,004,972; Oct. 3; Sp. p. 901; Gaz. vol. 171; p. 149.
Axle-lubricator, Compression. H. D. Stelle and W. E. Baxter. No. 1,011,136; Dec. 5; Sp. p. 1617; Gaz. vol. 173; p. 256.
Axle mounting, Divided-. E. Haycox. No. 992,353; May 16; Sp. p. 3298; Gaz. vol. 166; p. 594.
Axle or shaft. M. C. Schwab. No. 1,003,377; Sept. 12; Sp. p. 2595; Gaz. vol. 170; p. 446.
Axle structure for motor-vehicles, Driving-. E. C. Hardegen. No. 997,997; July 18; Sp. p. 3019; Gaz. vol. 168; p. 552.
Axle suspension. O. E. Allen. No. 1,008,102; Nov. 7; Sp. p. 979; Gaz. vol. 172; p. 157.
Axle, Vehicle-. N. L. Ballance. No. 983,112; Jan. 31; Sp. p. 6445; Gaz. vol. 162; p. 1120.
Axle, Vehicle-. J. T. Tennison. No. 1,008,875; Nov. 14; Sp. p. 2787; Gaz. vol. 172; p. 469.
Axle, Vehicle-. J. T. Davis and J. H. Allen. No. 1,011,325; Dec. 12; Sp. p. 2108; Gaz. vol. 173; p. 359.
Axle, Vehicle-wheel. K. Völler. No. 983,186; Jan. 31; Sp. p. 6567; Gaz. vol. 162; p. 1143.
Axles, Forming hollow. D. W. Stroup. No. 1,007,815; Nov. 7; Sp. p. 375; Gaz. vol. 172; p. 59.
Axles, Forming railway-car. T. H. Simpson. No. 981,697; Jan. 17; Sp. p. 3409; Gaz. vol. 162; p. 576.
Axles, Making hollow car-. C. M. Wales. No. 983,849; Feb. 7; Sp. p. 1269; Gaz. vol. 163; p. 203.
Axles of farming-machines, Boxing for. E. Schweitzer. No. 996,431; June 27; Sp. p. 5159; Gaz. vol. 167; p. 903.
Babbitt material. J. L. Jones. No. 981,767; Jan. 17; Sp. p. 3546; Gaz. vol. 162; p. 601.
Baby-holder. C. M. Prather. No. 1,012,431; Dec. 19; Sp. p. 4531; Gaz. vol. 173; p. 776.
Baby-rest. I. P. Russell. No. 992,602; May 16; Sp. p. 3826; Gaz. vol. 166; p. 681.
Baby-walker and chair, Combined. H. A. Hayden. No. 989,966; Apr. 18; Sp. p. 3596; Gaz. vol. 165; p. 623.
Back-band and trace holder. P. G. Giddens. No. 991,713; May 9; Sp. p. 1924; Gaz. vol. 166; p. 346.
Back-band hook. D. S. Benfield. No. 997,363; July 11; Sp. p. 1615; Gaz. vol. 168; p. 292.
Back-brace. H. C. Thornton. No. 1,008,500; Nov. 14; Sp. p. 1978; Gaz. vol. 172; p. 338.
Back-geared motor. A. M. Gray. No. 983,361; Feb. 7; Sp. p. 228; Gaz. vol. 163; p. 39.
Back-spacing mechanism. C. Spiro. No. 987,761; Mar. 28; Sp. p. 4223; Gaz. vol. 164; p. 771.
Back-support. L. Street. No. 999,415; Aug. 1; Sp. p. 441; Gaz. vol. 169; p. 78.
Backstay-fastening device. A. E. Smith. No. 992,274; May 16; Sp. p. 3101; Gaz. vol. 166; p. 565.

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Bacon-hook. A. Rispel. No. 1,006,007; Oct. 17; Sp. p. 3149; Gaz. vol. 171; p. 566.
Bacteria in liquids, Apparatus for killing. J. Willmann. (Reissue.) No. 13,199; Feb. 7; Sp. p. 1318; Gaz. vol. 163; p. 209.
Bacterial product. W. Schultz. No. 1,005,076; Oct. 3; Sp. p. 1085; Gaz. vol. 171; p. 183.
Bacterial product. W. Schultz. No. 1,005,077; Oct. 3; Sp. p. 1086; Gaz. vol. 171; p. 183.
Bacteriological oven or incubator. H. L. Lowe. No. 997,070; July 4; Sp. p. 1012; Gaz. vol. 168; p. 162.
Badge. J. E. Henry. No. 982,060; Jan. 17; Sp. p. 4220; Gaz. vol. 162; p. 703.
Baffler. O. Junggren. No. 993,831; May 30; Sp. p. 6462; Gaz. vol. 166; p. 1163.
Bag: *See* Clothes-pin bag; Cycle saddle-bag; Feed-bag; Feeding-bag; Fruit-bag; Hand-bag; Ice-bag; Mothproof garment-bag; Nose-bag; Paper bag; Sleeping-bag; Water-bag.
Bag. W. N. Hunter. No. 995,869; June 20; Sp. p. 3893; Gaz. vol. 167; p. 676.
Bag. A. M. Bates. No. 1,012,797; Dec. 26; Sp. p. 5331; Gaz. vol. 173; p. 949.
Bag and the like filling apparatus. J. T. Hill. No. 989,010; Apr. 11; Sp. p. 1512; Gaz. vol. 165; p. 265.
Bag-fastener. C. Hiering and A. Fuller. No. 980,415; Jan. 3; Sp. p. 484; Gaz. vol. 162; p. 84.
Bag-fastener. W. Greene. No. 982,178; Jan. 17; Sp. p. 4433; Gaz. vol. 162; p. 742.
Bag-fastener. C. Hiering and A. Fuller. No. 990,813; Apr. 25; Sp. p. 5489; Gaz. vol. 165; p. 946.
Bag-fastener. F. A. Fuller. No. 997,611; July 11; Sp. p. 2104; Gaz. vol. 168; p. 374.
Bag-fastener. J. Ehmann. No. 1,001,936; Aug. 29; Sp. p. 5865; Gaz. vol. 169; p. 1066.
Bag-fastener. G. Goerk. No. 1,004,014; Sept. 26; Sp. p. 4011; Gaz. vol. 170; p. 725.
Bag-fastening handle. E. J. Kuhn. No. 1,003,920; Sept. 19; Sp. p. 3737; Gaz. vol. 170; p. 666.
Bag filling and sealing machine, Seed-. J. Lines. No. 997,145; July 4; Sp. p. 1154; Gaz. vol. 168; p. 187.
Bag filling and weighing machine. J. A. McAnulty and J. Reaney, Jr. No. 992,513; May 16; Sp. p. 3617; Gaz. vol. 166; p. 650.
Bag filling and weighing machine, Automatic. E. L. Buschman. No. 984,537; Feb. 21; Sp. p. 2799; Gaz. vol. 163; p. 500.
Bag filling and weighing machine, Automatic. E. L. Buschman. No. 993,751; May 30; Sp. p. 6297; Gaz. vol. 166; p. 1136.
Bag-filling machine. A. M. Bates. No. 980,905; Jan. 10; Sp. p. 1612; Gaz. vol. 162; p. 280.
Bag-filling machine. F. Muckley. No. 993,188; May 23; Sp. p. 5050; Gaz. vol. 166; p. 911.
Bag-filling machine. E. Jagenberg. No. 1,001,855; Aug. 29; Sp. p. 5675; Gaz. vol. 169; p. 1039.
Bag-filling-machine attachment, Open-. C. H. Bricker. No. 987,341; Mar. 21; Sp. p. 3345; Gaz. vol. 164; p. 601.
Bag-filling machine, Valve-. A. M. Bates. No. 980,906; Jan. 10; Sp. p. 1614; Gaz. vol. 162; p. 280.
Bag-filling machines, Packing-auger for. J. F. McLaughlin and W. Smith. No. 1,004,804; Oct. 3; Sp. p. 552; Gaz. vol. 171; p. 91.
Bag-frame. C. Hiering and A. Fuller. No. 980,950; Jan. 10; Sp. p. 1713; Gaz. vol. 162; p. 295.
Bag-frame. B. vom Eigen. No. 1,005,178; Oct. 10; Sp. p. 1296; Gaz. vol. 171; p. 241.
Bag-frame and hinge connection therefor. B. vom Eigen. No. 980,409; Jan. 3; Sp. p. 474; Gaz. vol. 162; p. 82.
Bag-holder. M. E. Hall. No. 981,639; Jan. 17; Sp. p. 3284; Gaz. vol. 162; p. 558.
Bag-holder. E. B. Heyd. No. 988,097; Mar. 28; Sp. p. 5011; Gaz. vol. 164; p. 889.
Bag-holder. C. Raw. No. 989,642; Apr. 18; Sp. p. 2900; Gaz. vol. 165; p. 512.
Bag-holder. A. Davis. No. 993,964; May 30; Sp. p. 6705; Gaz. vol. 166; p. 1206.
Bag-holder. P. C. McCausland. No. 996,421; June 27; Sp. p. 5138; Gaz. vol. 167; p. 900.
Bag-holder. E. B. Heyd. No. 998,291; July 18; Sp. p. 3698; Gaz. vol. 168; p. 659.
Bag-holder. F. Cords. No. 998,754; July 25; Sp. p. 4714; Gaz. vol. 168; p. 853.
Bag-holder. E. A. Wold. No. 999,077; July 25; Sp. p. 5438; Gaz. vol. 168; p. 967.
Bag-holder. J. Thompson. No. 999,910; Aug. 8; Sp. p. 1438; Gaz. vol. 169; p. 273.
Bag-holder. F. Gibbins. No. 1,005,956; Oct. 17; Sp. p. 3055; Gaz. vol. 171; p. 549.
Bag-holder. C. McCormick. No. 1,008,657; Nov. 14; Sp. p. 2339; Gaz. vol. 172; p. 395.
Bag-holder. G. A. Penniman. No. 1,010,793; Dec. 5; Sp. p. 881; Gaz. vol. 173; p. 138.
Bag-holder. R. D. Wirt. No. 1,012,495; Dec. 19; Sp. p. 4653; Gaz. vol. 173; p. 799.
Bag holder, Percolating-. S. Doty. No. 1,002,376; Sept. 5; Sp. p. 461; Gaz. vol. 170; p. 65.
Bag-holder, Revolving. O. S. Thompson. No. 986,104; Mar. 7; Sp. p. 737; Gaz. vol. 164; p. 119.
Bag-lifter. G. L. Hoyt. No. 997,193; July 4; Sp. p. 1252; Gaz. vol. 168; p. 203.
Bag or liner spreading device. W. A. Joplin. No. 1,007,358; Oct. 31; Sp. p. 6166; Gaz. vol. 171; p. 1124.
Bag-tie. H. W. Mishoe. No. 1,002,730; Sept. 5; Sp. p. 1235; Gaz. vol. 170; p. 184.
Bag-tying device. F. Muckley. No. 986,079; Mar. 7; Sp. p. 691; Gaz. vol. 164; p. 111.
Bagging-machine. A. M. Bates. No. 992,148; May 16; Sp. p. 2798; Gaz. vol. 166; p. 522.
Baggage-rack. W. S. Hamm. No. 994,839; June 13; Sp. p. 1641; Gaz. vol. 167; p. 295.
Baggage-rack. W. S. Hamm. No. 999,368; Aug. 1; Sp. p. 350; Gaz. vol. 169; p. 62.
Bail. G. Russell. No. 992,601; May 16; Sp. p. 3825; Gaz. vol. 166; p. 681.
Bail-ear-attaching machine. C. R. Benedict. No. 1,003,691; Sept. 19; Sp. p. 3296; Gaz. vol. 170; p. 590.
Bail-ear for tapered buckets. C. L. Wagandt. No. 997,938; July 11; Sp. p. 2873; Gaz. vol. 168; p. 490.
Bail-ears, &c., to receptacles, Means for securing. L. O. Brown. No. 1,003,697; Sept. 19; Sp. p. 3305; Gaz. vol. 170; p. 592.
Bail-holder. P. M. Koenig and J. R. Meyer. No. 987,579; Mar. 21; Sp. p. 3822; Gaz. vol. 164; p. 681.
Bail-making machine. D. E. Kempster. No. 1,001,531; Aug. 22; Sp. p. 4964; Gaz. vol. 169; p. 897.
Bail-retainer. A. R. Pritchard. No. 992,983; May 23; Sp. p. 4624; Gaz. vol. 166; p. 844.
Bailer, Automatic bilge-. J. A. Baab and D. Rohrer. No. 987,532; Mar. 21; Sp. p. 3719; Gaz. vol. 164; p. 665.
Bait. A. R. Miller and H. E. Ball. No. 981,454; Jan. 10; Sp. p. 2926; Gaz. vol. 162; p. 473.
Bait, Artificial. G. A. Pflueger. No. 989,869; Apr. 18; Sp. p. 3377; Gaz. vol. 165; p. 589.
Bait, Artificial. W. T. Jefferson. No. 994,927; June 13; Sp. p. 1846; Gaz. vol. 167; p. 324.
Bait, Artificial. J. Dineen. No. 998,238; July 18; Sp. p. 3559; Gaz. vol. 168; p. 638.
Bait, Artificial. E. A. Pflueger. No. 1,007,007; Oct. 24; Sp. p. 5394; Gaz. vol. 171; p. 945.
Bait, Artificial. H. E. Lowe. No. 1,009,538; Nov. 21; Sp. p. 4270; Gaz. vol. 172; p. 736.
Bait, Artificial. O. H. Herrmann. No. 1,009,968; Nov. 28; Sp. p. 5129; Gaz. vol. 172; p. 924.
Bait for catching animals and the like. C. H. Freyer. No. 1,006,841; Oct. 24; Sp. p. 5049; Gaz. vol. 171; p. 890.
Bait-holder. W. J. Kearney. No. 993,833; May 30; Sp. p. 6465; Gaz. vol. 166; p. 1164.
Bait-holder. C. E. Henning. No. 1,003,962; Sept. 19; Sp. p. 3885; Gaz. vol. 170; p. 682.
Bait-receptacle. A. C. Seeger. No. 986,229; Mar. 7; Sp. p. 974; Gaz. vol. 164; p. 159.
Bait, Trolling-. O. F. Immell. No. 990,984; May 2; Sp. p. 328; Gaz. vol. 166; p. 57.
Baker, Apple-. W. F. Fowler and C. H. Mead. No. 987,058; Mar. 14; Sp. p. 2725; Gaz. vol. 164; p. 471.
Baker's peel-holder. S. E. Selleck. No. 997,213; July 4; Sp. p. 1298; Gaz. vol. 168; p. 211.
Baker's shovel. J. G. Splittorf. No. 1,008,620; Nov. 14; Sp. p. 2247; Gaz. vol. 172; p. 382.
Baker's tool. C. A. Raulf. No. 980,333; Jan. 3; Sp. p. 302; Gaz. vol. 162; p. 54.
Baking apparatus. C. F. Hartmann. No. 986,286; Mar. 7; Sp. p. 1100; Gaz. vol. 164; p. 177.
Baking apparatus. G. E. Mayle, C. R. Murdock, and W. D. Belknap. No. 990,577; Apr. 25; Sp. p. 4964; Gaz. vol. 165; p. 867.
Baking apparatus. F. A. Calley. No. 996,971; July 4; Sp. p. 779; Gaz. vol. 168; p. 128.
Baking compound. D. C. Herb. No. 980,635; Jan. 3; Sp. p. 974; Gaz. vol. 162; p. 159.
Baking-machine. W. W. Turnbull. No. 1,009,355; Nov. 21; Sp. p. 3862; Gaz. vol. 172; p. 672.
Baking machine, Pastry-. J. Allenson. No. 987,032; Mar. 14; Sp. p. 2670; Gaz. vol. 164; p. 462.
Baking-pan. F. P. Thien. No. 981,717; Jan. 17; Sp. p. 3441; Gaz. vol. 162; p. 583.
Baking-pan. E. Wing. No. 987,525; Mar. 21; Sp. p. 3710; Gaz. vol. 164; p. 662.
Baking-pan. C. Hall. No. 994,832; June 13; Sp. p. 1621; Gaz. vol. 167; p. 292.
Baking-pan. J. Sutherland. No. 1,002,780; Sept. 5; Sp. p. 1330; Gaz. vol. 170; p. 201.
Baking-pan. F. P. Thien. (Reissue.) No. 13,327; Nov. 28; Sp. p. 6055; Gaz. vol. 172; p. 1074.
Baking-pan and lifting attachment therefor. L. Da Rozir. No. 1,009,227; Nov. 21; Sp. p. 3585; Gaz. vol. 172; p. 626.
Baking-powder, Manufacture and production of. B. Federer. No. 980,936; Jan. 10; Sp. p. 1678; Gaz. vol. 162; p. 291.
Baking preparation. W. B. Brown and R. A. Holbrook. No. 990,699; Apr. 25; Sp. p. 5253; Gaz. vol. 165; p. 906.
Baking utensil, Potato-. H. C. Doersch. No. 997,653; July 11; Sp. p. 2209; Gaz. vol. 168; p. 391.
Balance, Portable. F. Reichmann. No. 997,091; July 4; Sp. p. 1052; Gaz. vol. 168; p. 169.

Alphabetical list of inventions—Continued.

Balance sheet and holder, Depositor's trial-. P. J. Engberg. No. 988,557; Apr. 4; Sp. p. 564; Gaz. vol. 165; p. 91.
Balance-sheet and pad-holder, Combined. A. O. Heil. No. 989,968; Apr. 18; Sp. p. 3599; Gaz. vol. 165; p. 624.
Balance-wheel holder. F. W. Buckingham. No. 1,003,132; Sept. 12; Sp. p. 2087; Gaz. vol. 170; p. 359.
Balancing and steering apparatus. L. Blériot. No. 1,009,017; Nov. 14; Sp. p. 3098; Gaz. vol. 172; p. 516.
Balancing device. A. M. Collins. No. 1,001,123; Aug. 22; Sp. p. 4169; Gaz. vol. 169; p. 762.
Balancing-machine. J. F. M. Patitz. No. 995,087; June 13; Sp. p. 2184; Gaz. vol. 167; p. 379.
Balancing-machine. N. C. Bassett. No. 995,109; June 13; Sp. p. 2216; Gaz. vol. 167; p. 385.
Balancing-machine. J. A. Jost. No. 1,003,753; Sept. 19; Sp. p. 3419; Gaz. vol. 170; p. 610.
Balancing-machine for rotatable bodies. C. H. Norton. No. 982,629; Jan. 24; Sp. p. 5383; Gaz. vol. 162; p. 928.
Balancing tank. L. F. Ragot. No. 1,003,796; Sept. 19; Sp. p. 3507; Gaz. vol. 170; p. 624.
Bale-carrier. E. H. Boehme. No. 1,007,520; Oct. 31; Sp. p. 6526; Gaz. vol. 171; p. 1180.
Bale-cover. W. H. Harriss. No. 983,492; Feb. 7; Sp. p. 502; Gaz. vol. 163; p. 80.
Bale-hook. A. R. Landes. No. 1,001,962; Aug. 29; Sp. p. 5931; Gaz. vol. 169; p. 1074.
Bale-hook, Automatic. A. F. and A. E. Nygren. No. 1,004,297; Sept. 26; Sp. p. 4660; Gaz. vol. 170; p. 824.
Bale-hook, Trip. G. Rentschler. No. 986,644; Mar. 14; Sp. p. 1891; Gaz. vol. 164; p. 334.
Bale-tie. E. Latham. No. 995,691; June 20; Sp. p. 3482; Gaz. vol. 167; p. 613.
Bale-tie. W. E. Moreland. No. 1,008,850; Nov. 14; Sp. p. 2740; Gaz. vol. 172; p. 461.
Bale-tie machine. F. L. Webster. No. 1,000,866; Aug. 15; Sp. p. 3553; Gaz. vol. 169; p. 639.
Bale-tying machine. W. E. Moreland. No. 995,276; June 13; Sp. p. 2542; Gaz. vol. 167; p. 440.
Bale-tying mechanism for balers. G. Schubert. No. 994,662; June 6; Sp. p. 1190; Gaz. vol. 167; p. 194.
Bale-wiring mechanism. G. Schubert. No. 994,661; June 6; Sp. p. 1184; Gaz. vol. 167; p. 193.
Balers, Self-weighing device for hay-. J. M. Quindry. No. 990,004; Apr. 18; Sp. p. 3678; Gaz. vol. 165; p. 637.
Baling apparatus. W. B. M. Brooks. No. 1,004,555; Oct. 3; Sp. p. 9; Gaz. vol. 171; p. 4.
Baling machine, Hay-. C. L. Inman. No. 986,986; Mar. 14; Sp. p. 2580; Gaz. vol. 164; p. 447.
Baling-press. A. L. Stephenson. No. 981,491; Jan. 10; Sp. p. 2985; Gaz. vol. 162; p. 485.
Baling-press. F. Gill and D. O. Graham. No. 981,994; Jan. 17; Sp. p. 4084; Gaz. vol. 162; p. 681.
Baling-press. F. Newton. No. 982,627; Jan. 24; Sp. p. 5379; Gaz. vol. 162; p. 928.
Baling-press. G. F. Walters. No. 982,650; Jan. 24; Sp. p. 5422; Gaz. vol. 162; p. 936.
Baling-press. A. R. Stahl. No. 982,891; Jan. 31; Sp. p. 5964; Gaz. vol. 162; p. 1046.
Baling-press. G. W. Pearson. No. 984,488; Feb. 14; Sp. p. 2647; Gaz. vol. 163; p. 447.
Baling-press. A. H. Symons. No. 984,717; Feb. 21; Sp. p. 3194; Gaz. vol. 163; p. 565.
Baling-press. O. L. Bowers. No. 988,969; Apr. 11; Sp. p. 1415; Gaz. vol. 165; p. 251.
Baling-press. F. P. Hinckley. No. 989,260; Apr. 11; Sp. p. 2049; Gaz. vol. 165; p. 350.
Baling-press. L. H. Conner. No. 989,836; Apr. 18; Sp. p. 3317; Gaz. vol. 165; p. 579.
Baling-press. P. J. Kelly. No. 990,142; Apr. 18; Sp. p. 3943; Gaz. vol. 165; p. 680.
Baling-press. A. Heim. No. 990,652; Apr. 25; Sp. p. 5126; Gaz. vol. 165; p. 891.
Baling-press. A. E. Cummins. No. 992,171; May 16; Sp. p. 2848; Gaz. vol. 166; p. 530.
Baling-press. G. M. Washington. No. 995,932; June 20; Sp. p. 4016; Gaz. vol. 167; p. 698.
Baling-press. A. B. Bennett. No. 1,002,213; Sept. 5; Sp. p. 35; Gaz. vol. 170; p. 4.
Baling-press. P. E. Daubenspeck. No. 1,002,651; Sept. 5; Sp. p. 1040; Gaz. vol. 170; p. 156.
Baling-press. A. Wickey. No. 1,003,224; Sept. 12; Sp. p. 2294; Gaz. vol. 170; p. 393.
Baling-press. C. T. Rayon. No. 1,003,371; Sept. 12; Sp. p. 2585; Gaz. vol. 170; p. 445.
Baling-press. W. W. Stopple. No. 1,003,382; Sept. 12; Sp. p. 2600; Gaz. vol. 170; p. 448.
Baling-press. W. M. Hightower. No. 1,004,025; Sept. 26; Sp. p. 4042; Gaz. vol. 170; p. 730.
Baling-press. G. E. Rouse. No. 1,004,911; Oct. 3; Sp. p. 801; Gaz. vol. 171; p. 128.
Baling-press. G. R. Mills. No. 1,005,271; Oct. 10; Sp. p. 1521; Gaz. vol. 171; p. 275.
Baling-press. H. L. Whitman. No. 1,006,327; Oct. 17; Sp. p. 3882; Gaz. vol. 171; p. 679.
Baling-press. V. S. Pleasant. No. 1,006,593; Oct. 24; Sp. p. 4511; Gaz. vol. 171; p. 804.
Baling-press. G. F. Woodard. No. 1,012,042; Dec. 19; Sp. p. 3705; Gaz. vol. 173; p. 645.
Baling-press division-block. C. E. Sprouls. No. 993,897; May 30; Sp. p. 6573; Gaz. vol. 166; p. 1184.
Baling-press indicator. F. A. Ryther. No. 993,413; May 30; Sp. p. 5538; Gaz. vol. 166; p. 1018.
Baling-press-operating mechanism. A. B. Bennett. No. 1,005,144; Oct. 10; Sp. p. 1217; Gaz. vol. 171; p. 228.
Ball: *See* Base-ball; Foot-ball; Inflated ball; Play-ball; Tank-valve ball.
Ball-cage. E. C. Goodwin and E. D. House. No. 981,551; Jan. 10; Sp. p. 3102; Gaz. vol. 162; p. 506.
Ball-cage. H. S. Hart. No. 988,336; Apr. 4; Sp. p. 97; Gaz. vol. 165; p. 17.
Ball-carrier and game-register. S. K. Powell. No. 1,011,486; Dec. 12; Sp. p. 2443; Gaz. vol. 173; p. 416.
Ball case, Playing-. J. Turner. No. 1,002,789; Sept. 5; Sp. p. 1344; Gaz. vol. 170; p. 203.
Ball fields, Truck and cover for the diamonds of base-. J. P. O'Maley. No. 987,593; Mar. 21; Sp. p. 3853; Gaz. vol. 164; p. 687.
Ball fields, Waterproof diamond-cover for base-. E. A. Mamaux. No. 987,635; Mar. 21; Sp. p. 3933; Gaz. vol. 164; p. 700.
Ball-grinding machine. W. B. Hasselkus. No. 989,524; Apr. 11; Sp. p. 2608; Gaz. vol. 165; p. 440.
Ball-joint fastening. P. J. Dalton. No. 1,011,415; Dec. 12; Sp. p. 2281; Gaz. vol. 173; p. 389.
Ball-press. S. S. Eveland. No. 996,573; June 27; Sp. p. 5429; Gaz. vol. 167; p. 949.
Ball-retainer. F. H. Farmer. No. 997,979; July 18; Sp. p. 2974; Gaz. vol. 168; p. 545.
Ball-retainer. J. L. Straub. No. 1,010,974; Dec. 5; Sp. p. 1267; Gaz. vol. 173; p. 201.
Ball-trap. E. H. Walter. No. 1,007,161; Oct. 31; Sp. p. 5759; Gaz. vol. 171; p. 1054.
Ballast-burning machine. S. B. Fleming. No. 993,590; May 30; Sp. p. 5923; Gaz. vol. 166; p. 1079.
Balloon. H. Bernegger. No. 993,948; May 30; Sp. p. 6678; Gaz. vol. 166; p. 1202.
Balloon, Captive. W. I. Pennock. No. 1,005,871; Oct. 17; Sp. p. 2853; Gaz. vol. 171; p. 518.
Balloon, Dirigible. L. V. Feuillet. No. 982,356; Jan. 24; Sp. p. 4823; Gaz. vol. 162; p. 835.
Balloon-envelop material. J. Rund. No. 1,001,892; Aug. 29; Sp. p. 5768; Gaz. vol. 169; p. 1051.
Balloon-form. J. Schütte. No. 999,469; Aug. 1; Sp. p. 537; Gaz. vol. 169; p. 95.
Balloon, Screw-propelled channeled. J. Hafely. No. 997,496; July 11; Sp. p. 1855; Gaz. vol. 168; p. 335.
Balloon structure. J. Schütte. No. 988,597; Apr. 4; Sp. p. 664; Gaz. vol. 165; p. 106.
Balloon structure. J. Schütte. No. 992,909; May 23; Sp. p. 4463; Gaz. vol. 166; p. 818.
Balloons, Framework structure for. C. Huber. No. 980,267; Jan. 3; Sp. p. 165; Gaz. vol. 162; p. 32.
Balloons, Propeller for dirigible. A. Gross. No. 1,008,965; Nov. 14; Sp. p. 2984; Gaz. vol. 172; p. 497.
Ballot-box. J. W. Marsh. No. 1,007,219; Oct. 31; Sp. p. 5886; Gaz. vol. 171; p. 1075.
Bamboo-connecting device. J. F. Sandell. No. 990,599; Apr. 25; Sp. p. 5016; Gaz. vol. 165; p. 874.
Banana-cage. G. Moscrip, Jr. No. 1,007,477; Oct. 31; Sp. p. 6416; Gaz. vol. 171; p. 1165.
Band-brake. W. F. Oberhuber. No. 994,332; June 6; Sp. p. 470; Gaz. vol. 167; p. 81.
Band-cutter and feeder. J. F. Langdon. No. 985,183; Feb. 28; Sp. p. 4165; Gaz. vol. 163; p. 758.
Band-cutter and feeder. A. C. Van Houweling. No. 985,478; Feb. 28; Sp. p. 4833; Gaz. vol. 163; p. 859.
Band-cutter and feeder. H. Ewoldt. No. 1,006,071; Oct. 17; Sp. p. 3289; Gaz. vol. 171; p. 588.
Band-cutters and feeders, Governor for. F. J. Wood. No. 985,962; Mar. 7; Sp. p. 437; Gaz. vol. 164; p. 70.
Band-iron tightener. W. H. Horner. No. 1,006,555; Oct. 24; Sp. p. 4432; Gaz. vol. 171; p. 791.
Bands, labels, &c., Mechanism for feeding. W. C. Briggs. No. 1,001,926; Aug. 29; Sp. p. 5846; Gaz. vol. 169; p. 1063.
Bands, labels, or wrappers to cigars or other articles, Machine for applying. W. C. Briggs. No. 1,004,141; Sept. 26; Sp. p. 4342; Gaz. vol. 170; p. 771.
Bandage, Plaster. W. J. Teufel. No. 1,003,161; Sept. 12; Sp. p. 2149; Gaz. vol. 170; p. 369.
Bank-note cutting and stamping machine. R. G. Richardson. No. 992,063; May 9; Sp. p. 2596; Gaz. vol. 166; p. 462.
Bank-notes, bonds, coupons, and the like, Means for detecting counterfeit. E. R. Morris and A. E. Bawtree. No. 1,002,600; Sept. 5; Sp. p. 942; Gaz. vol. 170; p. 140.
Bank, Pocket-. C. W. Martin and C. Rosine. No. 1,005,861; Oct. 17; Sp. p. 2828; Gaz. vol. 171; p. 515.
Bank, Portable savings-. C. Fisher. No. 1,010,881; Dec. 5; Sp. p. 1075; Gaz. vol. 173; p. 168.
Bank, Registering-. S. F. Estell. No. 988,933; Apr. 4; Sp. p. 1341; Gaz. vol. 165; p. 215.
Bank, Savings-. W. S. Harpster. No. 990,260; Apr. 25; Sp. p. 4231; Gaz. vol. 165; p. 754.
Bank, Savings-. C. Fisher. No. 990,533; Apr. 25; Sp. p. 4881; Gaz. vol. 165; p. 851.
Bank, Savings-. C. Fisher. No. 990,534; Apr. 25; Sp. p. 4884; Gaz. vol. 165; p. 852.
Bank, Savings-. C. Fisher. No. 990,535; Apr. 25; Sp. p. 4886; Gaz. vol. 165; p. 852.

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Bank, Savings-. C. A. Wales. No. 994,621; June 6; Sp. p. 1074; Gaz. vol. 167; p. 179.
Banjo. G. L. Thayer. No. 1,007,750; Nov. 7; Sp. p. 223; Gaz. vol. 172; p. 35.
Bar: *See* Angle-bar; Concrete-construction truss-bar; Corner-bar; Corrugated bar; Cutter-bar; Detector-bar; Draw-bar; Flask-bar; Grate-bar; Guard-bar; Metal bar; Rail splice-bar; Railway splice-bar; Sash-bar; Splice-bar; Steel bar; Wagon draw-bar.
Bars, Heating and rolling. W. M. Theobald. No. 1,005,361; Oct. 10; Sp. p. 1730; Gaz. vol. 171; p. 308.
Barber-chair. A. L. Undeland. No. 997,937; July 11; Sp. p. 2868; Gaz. vol. 168; p. 490.
Barber's chair. W. F. Koken. No. 1,011,816; Dec. 12; Sp. p. 3177; Gaz. vol. 173; p. 531.
Barber's comb. J. L. Woods. No. 1,003,568; Sept. 19; Sp. p. 3026; Gaz. vol. 170; p. 546.
Barber's head-rest. J. R. John. No. 1,009,417; Nov. 21; Sp. p. 4024; Gaz. vol. 172; p. 695.
Barber's reversible hair-cloth. M. Moritz. No. 1,003,489; Sept. 19; Sp. p. 2831; Gaz. vol. 170; p. 518.
Barge. A. C. Larr. No. 1,005,236; Oct. 10; Sp. p. 1433; Gaz. vol. 171; p. 262.
Barge, Self-unloading. A. F. Wiking. No. 986,529; Mar. 14; Sp. p. 1639; Gaz. vol. 164; p. 292.
Barges, Anchoring attachment for floating. J. P. Karr and J. D. Rauch. No. 987,886; Mar. 28; Sp. p. 4515; Gaz. vol. 164; p. 815.
Barium oxid, Making. C. Rollin. No. 1,008,070; Nov. 7; Sp. p. 912; Gaz. vol. 172; p. 147.
Barker, Banded. I. Richards. No. 1,005,654; Oct. 10; Sp. p. 2397; Gaz. vol. 171; p. 411.
Barking machine, Slab-. G. Anderson. No. 1,009,950; Nov. 28; Sp. p. 5097; Gaz. vol. 172; p. 919.
Barometer. W. Schocke. No. 984,972; Feb. 21; Sp. p. 3682; Gaz. vol. 163; p. 650.
Barometer, Aneroid. G. Lufft. No. 983,916; Feb. 14; Sp. p. 1449; Gaz. vol. 163; p. 256.
Barometers and other indicating instruments, Index for. T. A. Reynolds. No. 987,746; Mar. 28; Sp. p. 4200; Gaz. vol. 164; p. 767.
Barometers, Indicator for showing the time of adjustment of. F. H. Bush. No. 998,230; July 18; Sp. p. 3545; Gaz, vol. 168; p. 635.
Barrel. H. C. Herr. No. 997,620; July 11; Sp. p. 2133; Gaz. vol. 168; p. 379.
Barrel. W. M. Shreve. No. 1,010,080; Nov. 28; Sp. p. 5378; Gaz. vol. 172; p. 963.
Barrel. O. R. Emmrich. No. 1,011,176; Dec. 12; Sp. p. 1752; Gaz. vol. 173; p. 305.
Barrel-cleaning machine. G. P. Kroll and H. Weber. No. 996,864; July 4; Sp. p. 547; Gaz. vol. 168; p. 90.
Barrel-cleaning machine. J. B. Pecht. No. 1,003,786; Sept. 19; Sp. p. 3488; Gaz. vol. 170; p. 621.
Barrel-closure. A. M. Stock. No. 991,663; May 9; Sp. p. 1809; Gaz. vol. 166; p. 329.
Barrel, Collapsible. J. G. Johnson. No. 985,600; Feb. 28; Sp. p. 5095; Gaz. vol. 163; p. 901.
Barrel construction. J. MacGregor. No. 1,009,326; Nov. 21; Sp. p. 3801; Gaz. vol. 172; p. 662.
Barrel-cover fastener. F. B. Joy. No. 984,005; Feb. 14; Sp. p. 1647; Gaz. vol. 163; p. 284.
Barrel-fastening. R. H. Puff. No. 1,010,315; Nov. 28; Sp. p. 5845; Gaz. vol. 172; p. 1041.
Barrel-filler. A. B. Carll. No. 1,001,249; Aug. 22; Sp. p. 4404; Gaz. vol. 169; p. 801.
Barrel-finishing machine. R. D. Kinyon. No. 980,967; Jan. 10; Sp. p. 1808; Gaz. vol. 162; p. 301.
Barrel-forming die. L. Bauroth. No. 1,000,574; Aug. 15; Sp. p. 2927; Gaz. vol. 169; p. 536.
Barrel-forming machine. R. D. Kinyon. No. 1,004,540; Sept. 26; Sp. p. 5152; Gaz. vol. 170; p. 906.
Barrel-forming machine, Bilge-. W. B. Goddard. No. 1,001,634; Aug. 29; Sp. p. 5189; Gaz. vol. 169; p. 962.
Barrel-head fastener. G. J. Schmid. No. 991,548; May 9; Sp. p. 1552; Gaz. vol. 166; p. 287.
Barrel-head-releasing implement. S. L. A. Killion. No. 1,008,342; Nov. 14; Sp. p. 1550; Gaz. vol. 172; p. 283.
Barrel-heading and hoop-driving machine. W. A. Bishop. No. 999,199; Aug. 1; Sp. p. 13; Gaz. vol. 169; p. 5.
Barrel-heading machine. J. B. Wagner. No. 983,329; Feb. 7; Sp. p. 153; Gaz. vol. 163; p. 27.
Barrel-heading machine. J. Shinsky and C. Langlotz. No. 983,841; Feb. 7; Sp. p. 1257; Gaz. vol. 163; p. 201.
Barrel-heading-up machine. C. Grotnes. No. 994,153; June 6; Sp. p. 97; Gaz. vol. 167; p. 19.
Barrel, Knockdown. F. A. Prahl. No. 980,434; Jan. 3; Sp. p. 532; Gaz. vol. 162; p. 90.
Barrel, Knockdown. C. H. Mix. No. 983,300; Feb. 7; Sp. p. 93; Gaz. vol. 163; p. 17.
Barrel-lifter. H. W. Patten. No. 992,584; May 16; Sp. p. 3776; Gaz. vol. 166; p. 675.
Barrel-liner. E. R. Maison. No. 1,011,979; Dec. 19; Sp. p. 3559; Gaz. vol. 173; p. 622.
Barrel-making machine. L. Bauroth. No. 980,399; Jan. 3; Sp. p. 448; Gaz. vol. 162; p. 78.
Barrel-making machine. J. F. East. No. 998,478; July 18; Sp. p. 4080; Gaz. vol. 168; p. 722.
Barrel-making machine. G. J. Mayer. No. 1,001,766; Aug. 29; Sp. p. 5485; Gaz. vol. 169; p. 1008.
Barrel-making machine. L. O. Brown and L. Bauroth. No. 1,003,427; Sept. 19; Sp. p. 2700; Gaz. vol. 170; p. 496.
Barrel-manipulating apparatus. E. A. Bienenstok. No. 1,010,573; Dec. 5; Sp. p. 384; Gaz. vol. 173; p. 61.
Barrel, Metal bilge-. J. H. La Fave. No. 991,327; May 2; Sp. p. 1080; Gaz. vol. 166; p. 180.
Barrel or box. J. H. Killion. No. 1,011,209; Dec. 12; Sp. p. 1813; Gaz. vol. 173; p. 316.
Barrel, Rolling-. H. A. Johnson and J. W. Force. No. 994,258; June 6; Sp. p. 325; Gaz. vol. 167; p. 56.
Barrel-sanding machine. E. F. Beugler. No. 988,071; Mar. 28; Sp. p. 4954; Gaz. vol. 164; p. 879.
Barrel, Shaking-. G. F. Bull. No. 1,010,229; Nov. 28; Sp. p. 5664; Gaz. vol. 172; p. 1013.
Barrel-sizing and crimp-rolling machine. L. Bauroth. No. 1,003,417; Sept. 19; Sp. p. 2678; Gaz. vol. 170; p. 492.
Barrel-skid and drain-pan. F. A. Knoche. No. 1,002,704; Sept. 5; Sp. p. 1158; Gaz. vol. 170; p. 175.
Barrel trimming or finishing machine. G. E. Hardie. No. 987,982; Mar. 28; Sp. p. 4764; Gaz. vol. 164; p. 850.
Barrel-trussing and hoop-driving machine. C. W. Sharrock. No. 982,749; Jan. 24; Sp. p. 5639; Gaz. vol. 162; p. 967.
Barrel-washing machine. B. Danziger. No. 1,004,381; Sept. 26; Sp. p. 4830; Gaz. vol. 170; p. 852.
Barrels and kegs, Follower for. A. T. Henderson. No. 1,012,076; Dec. 19; Sp. p. 3786; Gaz. vol. 173; p. 656.
Barrels, Apparatus for the manufacture of. J. Stankovich. No. 984,167; Feb. 14; Sp. p. 1971; Gaz. vol. 163; p. 339.
Barrels, Device for removing char from. G. Cluthe. No. 999,208; Aug. 1; Sp. p. 33; Gaz. vol. 169; p. 8.
Barrels, Machine for forming sections of metal. G. Weiss. No. 1,000,468; Aug. 15; Sp. p. 2677; Gaz. vol. 169; p. 497.
Barrels or crates, Machine for making knockdown. E. W. Robinson. No. 985,064; Feb. 21; Sp. p. 3864; Gaz. vol. 163; p. 682.
Barrette. D. H. Butler. No. 985,110; Feb. 21; Sp. p. 3946; Gaz. vol. 163; p. 697.
Barrette. H. I. Snow and G. R. Farrell. No. 989,656; Apr. 18; Sp. p. 2930; Gaz. vol. 165; p. 516.
Barrette. A. Schärer. No. 999,596; Aug. 1; Sp. p. 791; Gaz. vol. 169; p. 137.
Barrette-pin. J. C. and J. A. Doran. No. 1,010,603; Dec. 5; Sp. p. 462; Gaz. vol. 173; p. 71.
Barrette-pin. J. C. and J. A. Doran. No. 1,010,739; Dec. 5; Sp. p. 758; Gaz. vol. 173; p. 119.
Barrette, Puff-. W. S. Bechtold. No. 984,343; Feb. 14; Sp. p. 2366; Gaz. vol. 163; p. 400.
Barrette-tongue connection. F. E. Edgerly. No. 994,068; May 30; Sp. p. 6918; Gaz. vol. 166; p. 1242.
Barrier, Portable. W. J. H. King. No. 1,010,379; Nov. 28; Sp. p. 5981; Gaz. vol. 172; p. 1062.
Base-ball. B. F. Shibe. No. 999,526; Aug. 1; Sp. p. 658; Gaz. vol. 169; p. 113.
Base-ball. B. F. Shibe. No. 999,527; Aug. 1; Sp. p. 660; Gaz. vol. 169; p. 113.
Basin and bath supply fitting. R. E. Crane and O. J. Backus. No. 991,703; May 9; Sp. p. 1899; Gaz. vol. 166; p. 343.
Basin, Catch-. F. L. Union. No. 1,005,371; Oct. 10; Sp. p. 1751; Gaz. vol. 171; p. 312.
Basin holder, Sanitary bed-. W. C. Johnson. No. 982,965; Jan. 31; Sp. p. 6119; Gaz. vol. 162; p. 1069.
Basin-waste connection. F. Hoffmann and E. F. Niedecken. No. 1,000,521; Aug. 15; Sp. p. 2795; Gaz. vol. 169; p. 515.
Basin-wrench. J. Wood. No. 986,112; Mar. 7; Sp. p. 752; Gaz. vol. 164; p. 121.
Basket. W. B. Raymond. No. 988,897; Apr. 4; Sp. p. 1270; Gaz. vol. 165; p. 203.
Basket. F. O. Spies. No. 991,037; May 2; Sp. p. 436; Gaz. vol. 166; p. 75.
Basket. A. M. Taylor. No. 994,214; June 6; Sp. p. 238; Gaz. vol. 167; p. 40.
Basket. H. R. Garritson. No. 996,014; June 20; Sp. p. 4168; Gaz. vol. 167; p. 725.
Basket, Automatic coal-shaft. J. J. Nary. No. 995,892; June 20; Sp. p. 3938; Gaz. vol. 167; p. 683.
Basket-bib frame. F. F. Herring. No. 996,084; June 27; Sp. p. 4329; Gaz. vol. 167; p. 784.
Basket, Butcher's. L. B. Kauffmann. No. 994,098; May 30; Sp. p. 6983; Gaz. vol. 166; p. 1252.
Basket, Feed-. D. P. Sammon. No. 986,222; Mar. 7; Sp. p. 964; Gaz. vol. 164; p. 157.
Basket, Folding. R. M. Zuberbuhler. No. 1,012,314; Dec. 19; Sp. p. 4304; Gaz. vol. 173; p. 738.
Basket for growing plants. H. M. Cahill. No. 994,816; June 13; Sp. p. 1569; Gaz. vol. 167; p. 287.
Basket, Fruit-. W. P. Angelo. No. 986,341; Mar. 7; Sp. p. 1216; Gaz. vol. 164; p. 197.
Basket, Knockdown. F. M. Snyder. No. 987,410; Mar. 21; Sp. p. 3494; Gaz. vol. 164; p. 624.
Basket-making machinery. J. Eklund. No. 1,008,455; Nov. 14; Sp. p. 1890; Gaz. vol. 172; p. 323.
Basket-making machines, Blank for. E. Horton. No. 1,008,339; Nov. 14; Sp. p. 1542; Gaz. vol. 172; p. 282.

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Basket, Metallic. A. Mauser. No. 999,577; Aug. 1; Sp. p. 760; Gaz. vol. 169; p. 131.
Basket, Shipping-. R. B. Fuller. No. 1,007,857; Nov. 7; Sp. p. 493; Gaz. vol. 172; p. 74.
Bass-reel. H. Kenward. No. 996,258; June 27; Sp. p. 4736; Gaz. vol. 167; p. 842.
Bat cutting and rolling machine. J. Cochran. No. 1,007,921; Nov. 7; Sp. p. 624; Gaz. vol. 172; p. 96.
Bat-former. S. M. Ball. No. 987,789; Mar. 28; Sp. p. 4284; Gaz. vol. 164; p. 781.
Bat-former. S. M. Ball. No. 987,790; Mar. 28; Sp. p. 4287; Gaz. vol. 164; p. 782.
Bath: See Constant-temperature bath; Plunge-bath; Vapor-bath.
Bath. R. Schmidt. No. 987,646; Mar. 21; Sp. p. 3954; Gaz. vol. 164; p. 705.
Bath accessory. F. Hess. No. 1,006,381; Oct. 17; Sp. p. 4000; Gaz. vol. 171; p. 697.
Bath attachment, Sitz-. F. Netschert. No. 982,626; Jan. 24; Sp. p. 5378; Gaz. vol. 162; p. 927.
Bath-cabinet. S. Ballard. No. 984,524; Feb. 21; Sp. p. 2773; Gaz. vol. 163; p. 496.
Bath-cabinet. J. P. Miller. No. 991,222; May 2; Sp. p. 840; Gaz. vol. 166; p. 143.
Bath-closet. R. L. Leo. No. 1,003,763; Sept. 19; Sp. p. 3435; Gaz. vol. 170; p. 613.
Bath construction, Shower-. T. F. Payne. No. 999,858; Aug. 8; Sp. p. 1322; Gaz. vol. 169; p. 255.
Bath-mat, Foldable. B. D. Knickerbocker. No. 984,765; Feb. 21; Sp. p. 3298; Gaz. vol. 163; p. 581.
Bath-mat. R. C. Button. No. 1,011,114; Dec. 5; Sp. p. 1571; Gaz. vol. 173; p. 249.
Bath or basin fitting. P. Mueller. No. 1,000,538; Aug. 15; Sp. p. 2832; Gaz. vol. 169; p. 521.
Bath tank, Shower-. R. C. Button. No. 1,011,113; Dec. 5; Sp. p. 1570; Gaz. vol. 173; p. 249.
Bath-trap. T. E. Crosby. No. 1,011,035; Dec. 5; Sp. p. 1385; Gaz. vol. 173; p. 221.
Bath-tub casing. J. H. Danver. No. 993,826; May 30; Sp. p. 6455; Gaz. vol. 166; p. 1162.
Bath-tub casing. J. H. Danver. No. 1,009,483; Nov. 21; Sp. p. 4160; Gaz. vol. 172; p. 717.
Bath-tub fitting. J. M. McDonald. No. 1,003,770; Sept. 19; Sp. p. 3464; Gaz. vol. 170; p. 616.
Bath-tub fitting. H. M. Weaver. No. 1,010,469; Dec. 5; Sp. p. 144; Gaz. vol. 173; p. 26.
Bath-tub fixture. J. Flockhart. No. 989,773; Apr. 18; Sp. p. 3169; Gaz. vol. 165; p. 557.
Bath-tub head-rest, Adjustable. J. Lahl. No. 1,011,448; Dec. 12; Sp. p. 2345; Gaz. vol. 173; p. 401.
Bath-tub supply and waste. D. C. Charmois. No. 1,001,122; Aug. 22; Sp. p. 4166; Gaz. vol. 169; p. 762.
Bath-tub supply-pipe connection. W. G. Stewart. No. 985,853; Mar. 7; Sp. p. 198; Gaz. vol. 164; p. 32.
Bath-tubs and the like, Permanent mold for. G. W. Franzheim. No. 1,009,296; Nov. 21; Sp. p. 3738; Gaz. vol. 172; p. 651.
Bathing apparatus. J. F. Burke. No. 995,658; June 20; Sp. p. 3419; Gaz. vol. 167; p. 602.
Bathing device, Portable. W. C. Callahan. No. 996,453; June 27; Sp. p. 5197; Gaz. vol. 167; p. 911.
Bathing-suit, Union. J. B. Guy. No. 1,002,912; Sept. 12; Sp. p. 1652; Gaz. vol. 170; p. 285.
Batter or the like, Feeding mechanism for. Y. Kawasaki. No. 999,799; Aug. 8; Sp. p. 1202; Gaz. vol. 169; p. 236.
Batteries and the manufacture thereof, Positive plate for storage. P. G. Salom. No. 991,897; May 9; Sp. p. 2277; Gaz. vol. 166; p. 406.
Batteries, Apparatus for indicating the condition of storage. E. M. Tarmin. No. 1,012,298; Dec. 19; Sp. p. 4276; Gaz. vol. 173; p. 733.
Batteries, Machine for filling dry. P. P. Nungesser. No. 985,691; Feb. 28; Sp. p. 5289; Gaz. vol. 163; p. 931.
Batteries, Machine for filling dry. P. P. Nungesser. No. 990,823; Apr. 25; Sp. p. 5509; Gaz. vol. 165; p. 949.
Batteries, Machine for making electrical dry. W. E. Harmon. No. 987,876; Mar. 28; Sp. p. 4473; Gaz. vol. 164; p. 812.
Batteries, Oxid plate for primary. J. W. Gladstone. No. 988,934; Apr. 4; Sp. p. 1345; Gaz. vol. 165; p. 216.
Batteries, Pilot-cell for electric storage. R. Macrae. No. 990,893; May 2; Sp. p. 139; Gaz. vol. 166; p. 26.
Batteries, Regenerating storage. C. Luckow. No. 990,661; Apr. 25; Sp. p. 5155; Gaz. vol. 165; p. 894.
Batteries, Separator for secondary storage. A. F. Madden. No. 985,045; Feb. 21; Sp. p. 3831; Gaz. vol. 163; p. 676.
Batteries, Terminal bushing for electric. J. R. Sloan. No. 1,012,461; Dec. 19; Sp. p. 4586; Gaz. vol. 173; p. 786.
Battery: *See* Dry battery; Electric battery; Electric secondary battery; Galvanic battery; Primary battery; Secondary battery; Secondary or storage battery; Storage battery; Thermo-electric battery.
Battery. H. W. Darby. No. 982,576; Jan. 24; Sp. p. 5279; Gaz. vol. 162; p. 911.
Battery, Alternating-current plant combined with storage. L. Schröder and A. Müller. No. 987,495; Mar. 21; Sp. p. 3662; Gaz. vol. 164; p. 653.
Battery and holder. G. L. Patterson. No. 980,830; Jan. 3; Sp. p. 1395; Gaz. vol. 162; p. 223.
Battery and holder. G. L. Patterson. No. 983,760; Feb. 7; Sp. p. 1080; Gaz. vol. 163; p. 173.
Battery-box. A. H. Brandon. No. 984,068; Feb. 14; Sp. p. 1784; Gaz. vol. 163; p. 307.
Battery-box. W. Henrichs. No. 988,337; Apr. 4; Sp. p. 98; Gaz. vol. 165; p. 18.
Battery chute or well. L. H. Clarke and J. H. Dorton. No. 1,012,246; Dec. 19; Sp. p. 4164; Gaz. vol. 173; p. 714.
Battery connection. S. J. Hall. No. 994,744; June 13; Sp. p. 1418; Gaz. vol. 167; p. 263.
Battery-connector. J. H. Gugler. No. 1,005,199; Oct. 10; Sp. p. 1343; Gaz. vol. 171; p. 248.
Battery-element support. C. B. Schoenmehl. No. 987,648; Mar. 21; Sp. p. 3957; Gaz. vol. 164; p. 705.
Battery-element support. C. B. Schoenmehl. No. 1,010,693; Dec. 5; Sp. p. 643; Gaz. vol. 173; p. 103.
Battery-holder. G. N. Waterbury, Jr. No. 989,738; Apr. 18; Sp. p. 3104; Gaz. vol. 165; p. 545.
Battery-plate separator, Storage-. F. L. Sessions. No. 990,069; Apr. 18; Sp. p. 3794; Gaz. vol. 165; p. 657.
Battery plates, Making secondary-. J. E. Frederickson. No. 994,451; June 6; Sp. p. 716; Gaz. vol. 167; p. 122.
Battery regulator, Storage-. A. A. Tirrill. No. 996,379; June 27; Sp. p. 5028; Gaz. vol. 167; p. 885.
Battery separator, Storage-. W. Taylor. No. 1,012,751; Dec. 26; Sp. p. 5206; Gaz. vol. 173; p. 933.
Battery separator, Storage-. W. Taylor. No. 1,012,752; Dec. 26; Sp. p. 5207; Gaz. vol. 173; p. 933.
Battery tank, Storage-. H. Lesley. No. 984,095; Feb. 14; Sp. p. 1839; Gaz. vol. 163; p. 316.
Battery-terminal. W. H. Pearce. No. 1,012,096; Dec. 19; Sp. p. 3833; Gaz. vol. 173; p. 663.
Battery terminal, Acid-proof electric-. K. R. Smith. No. 1,006,697; Oct. 24; Sp. p. 4704; Gaz. vol. 171; p. 838.
Battery terminal clip, Electric-. C. E. Avery. No. 1,011,710; Dec. 12; Sp. p. 2955; Gaz. vol. 173; p. 494.
Battery-vault. F. H. T. Potter. No. 991,085; May 2; Sp. p. 534; Gaz. vol. 166; p. 92.
Battery vent-plug. J. R. Sloan. No. 1,010,695; Dec. 5; Sp. p. 648; Gaz. vol. 173; p. 104.
Battery-well. F. L. Dyer. No. 994,067; May 30; Sp. p. 6917; Gaz. vol. 166; p. 1242.
Bayonet-joint. W. O. Barnes. No. 1,002,115; Aug. 29; Sp. p. 6212; Gaz. vol. 169; p. 1123.
Beach-reclamation works. L. M. Haupt. No. 1,010,139; Nov. 28; Sp. p. 5490; Gaz. vol. 172; p. 983.
Beading-cementer. T. Quinn. No. 991,369; May 2; Sp. p. 1162; Gaz. vol. 166; p. 194.
Beam-clamp-making device. A. A. Noyes. No. 992,038; May 9; Sp. p. 2548; Gaz. vol. 166; p. 453.
Beam construction, Trussed-. E. C. Covert. No. 993,574; May 30; Sp. p. 5889; Gaz. vol. 166; p. 1073.
Beam construction, Trussed-. J. J. Hoffman. No. 996,584; June 27; Sp. p. 5452; Gaz. vol. 167; p. 953.
Beam of flanged iron. A. E. Roach. No. 999,262; Aug. 1; Sp. p. 136; Gaz. vol. 169; p. 25.
Bean-picker. F. C. Britt. No. 997,366; July 11; Sp. p. 1619; Gaz. vol. 168; p. 293.
Bean-puller. L. D. Stout. No. 994,796; June 13; Sp. p. 1523; Gaz. vol. 167; p. 280.
Bean-sorting machine. W. T. Griffin. No. 1,011,188; Dec. 12; Sp. p. 1773; Gaz. vol. 173; p. 309.
Bearing. W. J. Brewer. No. 981,055; Jan. 10; Sp. p. 2025; Gaz. vol. 162; p. 333.
Bearing. A. E. Clark. No. 982,250; Jan. 24; Sp. p. 4587; Gaz. vol. 162; p. 797.
Bearing. S. S. Harper. No. 994,920; June 13; Sp. p. 1833; Gaz. vol. 167; p. 322.
Bearing. J. B. Mendenhall. No. 1,003,485; Sept. 19; Sp. p. 2824; Gaz. vol. 170; p. 516.
Bearing. A. C. Davidson. No. 1,003,960; Sept. 19; Sp. p. 3881; Gaz. vol. 170; p. 681.
Bearing. A. T. Prescott. No. 1,012,153; Dec. 19; Sp. p. 3955; Gaz. vol. 173; p. 683.
Bearing, Adjustable. E. J. Frost. No. 994,452; June 6; Sp. p. 717; Gaz. vol. 167; p. 123.
Bearing, Adjustable. R. B. Hartsough. No. 1,009,244; Nov. 21; Sp. p. 3616; Gaz. vol. 172; p. 631.
Bearing-alarm. A. H. De Lage. No. 988,176; Mar. 28; Sp. p. 5149; Gaz. vol. 164; p. 913.
Bearing alarm, Hot-. R. L. Jobson. No. 1,007,574; Oct. 31; Sp. p. 6647; Gaz. vol. 171; p. 1198.
Bearing and bearing-box. E. R. Whitney. No. 982,165; Jan. 17; Sp. p. 4402; Gaz. vol. 162; p. 737.
Bearing, Annular roller-. S. S. Eveland. No. 992,949; May 23; Sp. p. 4552; Gaz. vol. 166; p. 832.
Bearing, Antifriction-. E. S. Woods. No. 981,906; Jan. 17; Sp. p. 3869; Gaz. vol. 162; p. 651.
Bearing, Antifriction-. H. Hess. No. 983,897; Feb. 14; Sp. p. 1404; Gaz. vol. 163; p. 249.
Bearing, Antifriction-. H. Stuebner. No. 986,871; Mar. 14; Sp. p. 2369; Gaz. vol. 164; p. 410.
Bearing, Antifriction-. H. B. Keiper. No. 997,921; July 11; Sp. p. 2830; Gaz. vol. 168; p. 484.
Bearing, Antifriction-. C. A. Latham. No. 999,806; Aug. 8; Sp. p. 1214; Gaz. vol. 169; p. 238.
Bearing, Antifriction-. R. Linn. No. 1,001,764; Aug. 29; Sp. p. 5481; Gaz. vol. 169; p. 1007.
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Bearing, Antifriction-. H. Hess. No. 1,008,643; Nov. 14; Sp. p. 2313; Gaz. vol. 172; p. 391.
Bearing, Antifriction-. O. A. Schmidt. No. 1,009,586; Nov. 21; Sp. p. 4362; Gaz. vol. 172; p. 751.
Bearing, Antifriction-. A. A. Weigel. No. 1,010,710; Dec. 5; Sp. p. 678; Gaz. vol. 173; p. 109.
Bearing, Antifriction center-. S. P. Bush. No. 994,373; June 6; Sp. p. 569; Gaz. vol. 167; p. 97.
Bearing, Antifriction center-. E. S. Woods. No. 995,835; June 20; Sp. p. 3809; Gaz. vol. 167; p. 664.
Bearing, Axle-. T. V. Buckwalter. No. 987,854; Mar. 28; Sp. p. 4423; Gaz. vol. 164; p. 805.
Bearing, Ball-. L. Langhaar. No. 981,577; Jan. 10; Sp. p. 3151; Gaz. vol. 162; p. 514.
Bearing, Ball-. R. Cook. No. 989,569; Apr. 18; Sp. p. 2734; Gaz. vol. 165; p. 488.
Bearing, Ball-. H. Barthel. No. 990,203; Apr. 18; Sp. p. 4085; Gaz. vol. 165; p. 702.
Bearing, Ball-. H. Barthel. No. 990,204; Apr. 18; Sp. p. 4086; Gaz. vol. 165; p. 702.
Bearing, Ball-. H. Hess. No. 991,061; May 2; Sp. p. 476; Gaz. vol. 166; p. 83.
Bearing, Ball-. W. C. Swift. No. 993,470; May 30; Sp. p. 5666; Gaz. vol. 166; p. 1037.
Bearing, Ball-. W. C. Swift. No. 993,471; May 30; Sp. p. 5669; Gaz. vol. 166; p. 1037.
Bearing, Ball-. F. E. Bright. No. 996,206; June 27; Sp. p. 4632; Gaz. vol. 167; p. 826.
Bearing, Ball-. H. Hess. No. 997,913; July 11; Sp. p. 2815; Gaz. vol. 168; p. 481.
Bearing, Ball-. O. C. Knipe. No. 998,099; July 18; Sp. p. 3264; Gaz. vol. 168; p. 589.
Bearing, Ball-. W. Sonnberg. No. 1,000,044; Aug. 8; Sp. p. 1707; Gaz. vol. 169; p. 319.
Bearing, Ball-. H. La Casse. No. 1,000,612; Aug. 15; Sp. p. 3014; Gaz. vol. 169; p. 550.
Bearing, Ball-. G. W. B. McElhone. No. 1,000,685; Aug. 15; Sp. p. 3173; Gaz. vol. 169; p. 575.
Bearing, Ball-. H. Hess. No. 1,002,269; Sept. 5; Sp. p. 185; Gaz. vol. 170; p. 24.
Bearing, Ball-. F. E. Bright. No. 1,004,738; Oct. 3; Sp. p. 416; Gaz. vol. 171; p. 69.
Bearing, Ball and roller. H. B. Keiper. No. 997,920; July 11; Sp. p. 2827; Gaz. vol. 168; p. 484.
Bearing-bracket. S. M. Chase. No. 1,011,886; Dec. 12; Sp. p. 3329; Gaz. vol. 173; p. 554.
Bearing-cage casting-mold, Roller-. B. C. White. No. 1,003,837; Sept. 19; Sp. p. 3580; Gaz. vol. 170; p. 636.
Bearing cage, Roller-. J. A. Perkins. No. 1,002,443; Sept. 5; Sp. p. 600; Gaz. vol. 170; p. 86.
Bearing cages, Mold for forming roller-. C. A. Heinzelman. No. 993,523; May 30; Sp. p. 5781; Gaz. vol. 166; p. 1056.
Bearing-casing lock, Roller-. C. S. Lockwood. No. 998,785; July 25; Sp. p. 4776; Gaz. vol. 168; p. 863.
Bearing, Elastic-wheel. G. Rennerfelt. No. 1,005,473; Oct. 10; Sp. p. 1961; Gaz. vol. 171; p. 346.
Bearing, End-thrust ball-. D. F. Chambers. No. 1,011,028; Dec. 5; Sp. p. 1370; Gaz. vol. 173; p. 218.
Bearing, Flexible. S. M. Chase. No. 1,011,885; Dec. 12; Sp. p. 3328; Gaz. vol. 173; p. 553.
Bearing for car and other wheels, Centrifugal oiling-. F. A. Warren. No. 986,925; Mar. 14; Sp. p. 1630; Gaz. vol. 164; p. 290.
Bearing for car-wheels, Centrifugal oiling-. F. A. Warren. No. 986,526; Mar. 14; Sp. p. 1633; Gaz. vol. 164; p. 290.
Bearing for centrifugal machines. H. G. Morris. No. 1,005,776; Oct. 10; Sp. p. 2632; Gaz. vol. 171; p. 454.
Bearing for indicator-shafts. J. N. Perkins. No. 996,518; June 27; Sp. p. 5309; Gaz. vol. 167; p. 931.
Bearing for indicator-shafts. J. N. Perkins. No. 1,006,676; Oct. 24; Sp. p. 4669; Gaz. vol. 171; p. 832.
Bearing for shafts, Adjustable. A. Y. Edwards. No. 1,001,003; Aug. 22; Sp. p. 3908; Gaz. vol. 169; p. 719.
Bearing for shafts, Compensating thrust-. E. Kirk. No. 986,635; Mar. 14; Sp. p. 1861; Gaz. vol. 164; p. 330.
Bearing for shafts, Roller-. M. E. Layne. No. 1,009,322; Nov. 21; Sp. p. 3794; Gaz. vol. 172; p. 660.
Bearing for side and end strains, Roller-. C. S. Lockwood. No. 980,426; Jan. 3; Sp. p. 510; Gaz. vol. 162; p. 87.
Bearing for side and end thrust, Roller-. C. S. Lockwood. No. 980,427; Jan. 3; Sp. p. 511; Gaz. vol. 162; p. 87.
Bearing for stub-axles, Eccentrically-mounted. J. W. Estes. No. 996,473; June 27; Sp. p. 5232; Gaz. vol. 167; p. 918.
Bearing-jewels, Mounting. H. Miller. No. 1,007,372; Oct. 31; Sp. p. 6196; Gaz. vol. 171; p. 1129.
Bearing, Knife-edge. J. Hopkinson. No. 1,012,641; Dec. 26; Sp. p. 4977; Gaz. vol. 173; p. 894.
Bearing, Lubricated. P. S. Swan. No. 996,536; June 27; Sp. p. 5356; Gaz. vol. 167; p. 937.
Bearing mounting, Ball-. H. Hess. No. 989,258; Apr. 11; Sp. p. 2045; Gaz. vol. 165; p. 349.
Bearing, Resilient. O. Ritz. No. 986,862; Mar. 14; Sp. p. 2348; Gaz. vol. 164; p. 407.
Bearing retainer, Ball-. S. Schneider. No. 1,006,688; Oct. 24; Sp. p. 4692; Gaz. vol. 171; p. 835.
Bearing, Roller-. O. F. Zahn. No. 981,049; Jan. 10; Sp. p. 2004; Gaz. vol. 162; p. 330.
Bearing, Roller-. F. Whitney. No. 983,792; Feb. 7; Sp. p. 1139; Gaz. vol. 163; p. 183.
Bearing, Roller-. W. J. Brewer. No. 983,807; Feb. 7; Sp. p. 1170; Gaz. vol. 163; p. 188.
Bearing, Roller-. H. B. Gillette. No. 986,453; Mar. 14; Sp. p. 1475; Gaz. vol. 164; p. 266.
Bearing, Roller-. H. B. Gillette. No. 986,454; Mar. 14; Sp. p. 1480; Gaz. vol. 164; p. 267.
Bearing, Roller-. L. J. Hollingworth and J. Reuter. No. 987,138; Mar. 21; Sp. p. 2882; Gaz. vol. 164; p. 529.
Bearing, Roller-. J. C. Barber. No. 987,422; Mar. 21; Sp. p. 3514; Gaz. vol. 164; p. 628.
Bearing, Roller-. L. Badger. No. 990,946; May 2; Sp. p. 254; Gaz. vol. 166; p. 44.
Bearing, Roller-. O. F. Zahn. No. 996,550; June 27; Sp. p. 5379; Gaz. vol. 167; p. 941.
Bearing, Roller-. O. E. Michaud. No. 997,573; July 11; Sp. p. 2020; Gaz. vol. 168; p. 361.
Bearing, Roller-. H. B. Keiper. No. 997,829; July 11; Sp. p. 2631; Gaz. vol. 168; p. 452.
Bearing, Roller-. B. S. Lawson. No. 999,570; Aug. 1; Sp. p. 747; Gaz. vol. 169; p. 129.
Bearing, Roller-. J. Newmann. No. 1,001,673; Aug. 29; Sp. p. 5280; Gaz. vol. 169; p. 976.
Bearing, Roller-. J. A. Perkins. No. 1,002,439; Sept. 5; Sp. p. 587; Gaz. vol. 170; p. 84.
Bearing, Roller-. J. A. Perkins. No. 1,002,440; Sept. 5; Sp. p. 589; Gaz. vol. 170; p. 85.
Bearing, Roller-. J. A. Perkins. No. 1,002,441; Sept. 5; Sp. p. 591; Gaz. vol. 170; p. 85.
Bearing, Roller-. C. S. Lockwood. No. 1,003,055; Sept. 12; Sp. p. 1922; Gaz. vol. 170; p. 332.
Bearing, Roller-. J. Newmann. No. 1,003,494; Sept. 19; Sp. p. 2840; Gaz. vol. 170; p. 519.
Bearing, Roller-. J. Newmann. No. 1,003,495; Sept. 19; Sp. p. 2842; Gaz. vol. 170; p. 520.
Bearing, Roller-. D. F. Chambers. No. 1,011,029; Dec. 5; Sp. p. 1372; Gaz. vol. 173; p. 219.
Bearing, Roller-. J. F. Foster. No. 1,011,337; Dec. 12; Sp. p. 2129; Gaz. vol. 173; p. 363.
Bearing, Roller side. J. F. O'Connor. No. 984,236; Feb. 14; Sp. p. 2143; Gaz. vol. 163; p. 363.
Bearing, Roller side. P. N. Moore. No. 988,586; Apr. 4; Sp. p. 646; Gaz. vol. 165; p. 103.
Bearing, Self-adjusting. W. A. Henderson, W. C. and A. M. Gilpin. No. 1,000,806; Aug. 15; Sp. p. 3433; Gaz. vol. 169; p. 617.
Bearing, Self-adjusting ball-. S. G. Wingquist. No. 980,582; Jan. 3; Sp. p. 881; Gaz. vol. 162; p. 141.
Bearing, Shaft and axle. F. Maxant. No. 991,868; May 9; Sp. p. 2218; Gaz. vol. 166; p. 396.
Bearing, Spindle-. C. K. Salisbury. No. 1,007,803; Nov. 7; Sp. p. 349; Gaz. vol. 172; p. 55.
Bearing, Spring-. A. M. Karns. No. 1,001,200; Aug. 22; Sp. p. 4314; Gaz. vol. 169; p. 786.
Bearing, Spring-. F. R. E. Thörn. No. 1,004,939; Oct. 3; Sp. p. 845; Gaz. vol. 171; p. 137.
Bearing, Step-. W. H. Lawson. No. 1,012,662; Dec. 26; Sp. p. 5017; Gaz. vol. 173; p. 900.
Bearing, step-. W. H. Lawson. No. 1,012,663; Dec. 26; Sp. p. 5018; Gaz. vol. 173; p. 901.
Bearing structure for machines operating in water. J. Otto. No. 1,000,935; Aug. 15; Sp. p. 3699; Gaz. vol. 169; p. 662.
Bearing support or bracket. F. Rohrbeck. No. 1,001,167; Aug. 22; Sp. p. 4234; Gaz. vol. 169; p. 775.
Bearing, Thrust-. F. R. C. Boyd. No. 980,482; Jan. 3; Sp. p. 657; Gaz. vol. 162; p. 107.
Bearing, Thrust-. T. S. Patterson. No. 987,395; Mar. 21; Sp. p. 3466; Gaz. vol. 164; p. 619.
Bearing, Thrust-. W. G. Stebbins. No. 989,203; Apr. 11; Sp. p. 1908; Gaz. vol. 165; p. 331.
Bearing, Thrust-. W. M. Coffman. No. 996,457; June 27; Sp. p. 5203; Gaz. vol. 167; p. 912.
Bearing, Vertical. C. L. Goughnour. No. 997,251; July 4; Sp. p. 1369; Gaz. vol. 168; p. 224.
Bearing, Wheel-. G. Spalding. No. 988,219; Mar. 28; Sp. p. 5231; Gaz. vol. 164; p. 927.
Bearing with looped cage, Roller-. C. S. Lockwood. No. 995,471; June 20; Sp. p. 2995; Gaz. vol. 167; p. 535.
Bearing with loose guard-ring, Roller-. C. S. Lockwood. No. 982,512; Jan. 24; Sp. p. 5162; Gaz. vol. 162; p. 890.
Bearing with resilient cage, Roller-. C. S. Lockwood. No. 991,218; May 2; Sp. p. 833; Gaz. vol. 166; p. 141.
Bearings, Adjustable retainer for ball-. S. Schneider. No. 985,289; Feb. 28; Sp. p. 4413; Gaz. vol. 163; p. 794.
Bearings, Assembling ball-. F. E. Bright. No. 1,004,739; Oct. 3; Sp. p. 417; Gaz. vol. 171; p. 69.
Bearings, Balancing device for thrust-. C. A. Krogh. No. 992,005; May 9; Sp. p. 2486; Gaz. vol. 166; p. 442.
Bearings, Ball-holding cage for ball-. B. Eitner. No. 980,932; Jan. 10; Sp. p. 1670; Gaz. vol. 162; p. 289.
Bearings, Equalizing device for ball-. F. W. Gurney. No. 993,594; May 30; Sp. p. 5933; Gaz. vol. 166; p. 1080.
Bearings, Making ball-. O. C. Knipe. No. 1,006,103; Oct. 17; Sp. p. 3353; Gaz. vol. 171; p. 598.
Bearings, Making cages for antifriction-. B. Eitner. No. 1,002,244; Sept. 5; Sp. p. 127; Gaz. vol. 170; p. 16.

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Bearings, Retainer for ball and roller. F. Henzelman. No. 996,985; July 4; Sp. p. 826; Gaz. vol. 168; p. 133.
Bearings, Split-collared sleeve for roller-. C. S. Lockwood. No. 991,862; May 9; Sp. p. 2208; Gaz. vol. 166; p. 394.
Beater. A. Hannaford. No. 994,460; June 6; Sp. p. 729; Gaz. vol. 167; p. 125.
Beater. E. A. Christoph. No. 1,010,019; Nov. 28; Sp. p. 5257; Gaz. vol. 172; p. 942.
Beater, Rotary. R. Emmott and T. Mercer. No. 982,942; Jan. 31; Sp. p. 6083; Gaz. vol. 162; p. 1062.
Beater-tooth. J. S. Kemp. No. 988,718; Apr. 4; Sp. p. 929; Gaz. vol. 165; p. 147.
Beating and mixing machine. A. C. Westby. No. 1,012,489; Dec. 19; Sp. p. 4638; Gaz. vol. 173; p. 796.
Beating-engine used in the manufacture of paper. A. Masson and W. M. Wallace. (Reissue.) No. 13,241; May 16; Sp. p. 4094; Gaz. vol. 166; p. 731.
Bed. M. W. Ingraham. No. 984,001; Feb. 14; Sp. p. 1642; Gaz. vol. 163; p. 283.
Bed. S. R. Lockhart. No. 985,355; Feb. 28; Sp. p. 4542; Gaz. vol. 163; p. 815.
Bed. G. G. De Moss. No. 991,280; May 2; Sp. p. 971; Gaz. vol. 166; p. 164.
Bed. J. C. Williamson. No. 992,093; May 9; Sp. p. 2649; Gaz. vol. 166; p. 472.
Bed. G. C. Gumm. No. 1,001,946; Aug. 29; Sp. p. 5895; Gaz. vol. 169; p. 1069.
Bed. R. E. Taylor. No. 1,004,104; Sept. 26; Sp. p. 4257; Gaz. vol. 170; p. 759.
Bed. J. H. Pierce. No. 1,006,785; Oct. 24; Sp. p. 4895; Gaz. vol. 171; p. 869.
Bed. J. Solomon. No. 1,012,737; Dec. 26; Sp. p. 5183; Gaz. vol. 173; p. 928.
Bed and couch, Davenport. D. T. Owen. No. 988,497; Apr. 4; Sp. p. 438; Gaz. vol. 165; p. 71.
Bed and davenport, Convertible. L. B. Jeffcott. No. 1,012,558; Dec. 19; Sp. p. 4782; Gaz. vol. 173; p. 821.
Bed and ladder, Combined. J. Arsenault and C. Larrivée. No. 995,430; June 20; Sp. p. 2919; Gaz. vol. 167; p. 521.
Bed and lounging table. H. Braasch. No. 986,131; Mar. 7; Sp. p. 785; Gaz. vol. 164; p. 127.
Bed and parlor suit, Combination. T. J. Shea and R. Hames. No. 988,513; Apr. 4; Sp. p. 472; Gaz. vol. 165; p. 76.
Bed and seat spring. A. J. Wellman. No. 987,781; Mar. 28; Sp. p. 4272; Gaz. vol. 164; p. 779.
Bed and stretcher, Combined. E. J. Jardin. No. 984,374; Feb. 14; Sp. p. 2428; Gaz. vol. 163; p. 410.
Bed and trunk, Combined. J. D. Waters. No. 981,726; Jan. 17; Sp. p. 3461; Gaz. vol. 162; p. 587.
Bed, Apartment-. L. E. Frye. No. 1,005,532; Oct. 10; Sp. p. 2088; Gaz. vol. 171; p. 367.
Bed attachment. A. L. Lightner. No. 990,055; Apr. 18; Sp. p. 3774; Gaz. vol 165; p. 653.
Bed attachment, Invalid-. J. C. Van Slyke. No. 985,307; Feb. 28; Sp. p. 4447; Gaz. vol. 163; p. 800.
Bed-bottom. E. Ambrozy. No. 981,966; Jan. 17; Sp. p. 4026; Gaz. vol. 162; p. 672.
Bed-bottom. B. Berman. No. 984,882; Feb. 21; Sp. p. 3509; Gaz. vol. 163; p. 621.
Bed-bottom. C. R. Clucus. No. 986,141; Mar. 7; Sp. p. 800; Gaz. vol. 164; p. 130.
Bed-bottom fabric. E. Nickerson. No. 980,549; Jan. 3; Sp. p. 812; Gaz. vol. 162; p. 131.
Bed-bottom fabric. E. Nickerson. No. 980,550; Jan. 3; Sp. p. 814; Gaz. vol. 162; p. 131.
Bed-bottom fabric. C. B. Fraley. No. 982,713; Jan. 24; Sp. p. 5557; Gaz. vol. 162; p. 956.
Bed-bottom fabric. W. H. Sleight. No. 991,806; May 9; Sp. p. 2091; Gaz. vol. 166; p. 375.
Bed-bottom fabric, Spring-. E. Gregory. No. 1,011,052; Dec. 5; Sp. p. 1425; Gaz. vol. 173; p. 226.
Bed-bottom, Spring. F. Karr. No. 1,000,919; Aug. 15; Sp. p. 3661; Gaz. vol. 169; p. 657.
Bed-bottom, Woven-wire. F. A. Palmer. No. 989,867; Apr. 18; Sp. p. 3375; Gaz. vol. 165; p. 589.
Bed case, Disappearing-. L. Holmes. No. 986,633; Mar. 14; Sp. p. 1857; Gaz. vol. 164; p. 329.
Bed, chair, and table, Combination. T. Engstrand. No. 998,761; July 25; Sp. p. 4727; Gaz. vol. 168; p. 855.
Bed, Collapsible. H. Ackermann. No. 986,117; Mar. 7; Sp. p. 760; Gaz. vol. 164; p. 123.
Bed construction. L. H. Manson and B. B. Blood. No. 1,003,188; Sept. 12; Sp. p. 2210; Gaz. vol. 170; p. 380.
Bed, Couch-. W. P. Hammond. No. 980,631; Jan. 3; Sp. p. 968; Gaz. vol. 162; p. 158
Bed, Couch-. C. L. Plunkett. No. 984,600; Feb. 21; Sp. p. 2930; Gaz. vol. 163; p. 521.
Bed, Couch-. C. L. Plunkett. No. 984,601; Feb. 21; Sp. p. 2935; Gaz. vol. 163; p. 522.
Bed, Couch-. C. L. Plunkett. No. 984,602; Feb. 21; Sp. p. 2939; Gaz. vol. 163; p. 522.
Bed, Couch-. C. L. Plunkett. No. 984,698; Feb. 21; Sp. p. 3145; Gaz. vol. 163; p. 557.
Bed, Couch-. C. L. Plunkett. No. 984,699; Feb. 21; Sp. p. 3148; Gaz. vol. 163; p. 557.
Bed, Couch-. C. L. Plunkett. No. 986,406; Mar. 7; Sp. p. 1366; Gaz. vol. 164; p. 220.
Bed, Couch-. F. M. Tinkham. No. 990,608; Apr. 25; Sp. p. 5032; Gaz. vol. 165; p. 877.
Bed-couch. A. E. Irelan. No. 1,011,201; Dec. 12; Sp. p. 1801; Gaz. vol. 173; p. 314.
Bed-covering. A. Sonntag. No. 1,001,088; Aug. 22; Sp. p. 4095; Gaz. vol. 169; p. 750.
Bed, Davenport-. D. T. Owen. No. 988,498; Apr. 4; Sp. p. 439; Gaz. vol. 165; p. 72.
Bed, Davenport-. H. Stanyon. No. 990,401; Apr. 25; Sp. p. 4564; Gaz. vol. 165; p. 805.
Bed, Davenport-. J. G. Curtis. No. 990,850; May 2; Sp. p. 48; Gaz. vol. 166; p. 11.
Bed-davenport. A. C. Klopping. No. 990,145; Apr. 18; Sp. p. 3950; Gaz. vol. 165; p. 682.
Bed, Disappearing. W. L. Murphy. No. 1,007,596; Oct. 31; Sp. p. 6693; Gaz. vol. 171; p. 1205.
Bed, Divan-. H. Freedman. No. 1,007,855; Nov. 7; Sp. p. 489; Gaz. vol. 172; p. 73.
Bed, Double-acting wall-. J. K. Pennington. No. 1,006,123; Oct. 17; Sp. p. 3412; Gaz. vol. 171; p. 606.
Bed, Extension-. F. D. Chappell. No. 981,533; Jan. 10; Sp. p. 3066; Gaz. vol. 162; p. 500.
Bed, Extension-. A. C. Keightley and L. Cockerell. No. 998,344; July 18; Sp. p. 3822; Gaz. vol. 168; p. 678.
Bed-fastening. F. Paine. No. 1,001,679; Aug. 29; Sp. p. 5298; Gaz. vol. 169; p. 979.
Bed, Folding. K. Evans. No. 995,336; June 13; Sp. p. 2683; Gaz. vol. 167; p. 460.
Bed, Folding. G. C. Fuller. No. 997,284; July 11; Sp. p. 1445; Gaz. vol. 168; p. 266.
Bed, Folding. G. Fischrupp. No. 1,012,536; Dec. 19; Sp. p. 4732; Gaz. vol. 173; p. 813.
Bed, Folding couch-. M. J. Halpin. No. 996,640; July 4; Sp. p. 98; Gaz. vol. 168; p. 17.
Bed for invalids. C. R. Kester. No. 992,671; May 16; Sp. p. 3942; Gaz. vol. 166; p. 703.
Bed-frame. F. G. Kapelman. No. 1,001,148; Aug. 22; Sp. p. 4208; Gaz. vol. 169; p. 770.
Bed frame, Invalid-. J. A. Bartholome. No. 984,879; Feb. 21; Sp. p. 3506; Gaz. vol. 163; p. 620.
Bed, Hammock-. E. B. Williamson. No. 1,006,331; Oct. 17; Sp. p. 3892; Gaz. vol. 171; p. 680.
Bed head-rest. R. Wunning. No. 1,005,916; Oct. 17; Sp. p. 2950; Gaz. vol. 171; p. 534.
Bed, Invalid-. G. H. Stone. No. 1,001,089; Aug. 22; Sp. p. 4096; Gaz. vol. 169; p. 751.
Bed, Invalid's. M. J. Reiff. No. 989,875; Apr. 18; Sp. p. 3393; Gaz. vol. 165; p. 592.
Bed, Invalid's. F. R. Payne. No. 1,001,437; Aug 22; Sp. p. 4806; Gaz. vol. 169; p. 866.
Bed-jack. C. H. Swanger. No. 992,080; May 9; Sp. p. 2625; Gaz. vol. 166; p. 467.
Bed or couch. W. J. Grotenhuis. No. 987,064; Mar. 14; Sp. p. 2731; Gaz. vol. 164; p. 472.
Bed or couch, Folding. E. Gregory. No. 1,010,493; Dec. 5; Sp. p. 206; Gaz. vol. 173; p. 34.
Bed or spring bed-bottom, Sanitary. J. Winget. No. 992,095; May 9; Sp. p. 2653; Gaz. vol. 166; p. 472.
Bed-pan. M. S. Nilsson. No. 1,002,077; Aug. 29; Sp. p. 6146; Gaz. vol. 169; p. 1111.
Bed-pan. E. E. Hanly. No. 1,006,653; Oct. 24; Sp. p. 4622; Gaz. vol. 171; p. 824.
Bed-pan cushion. M. A. L. Barrelle and A. R. Logan. No. 995,692; June 20; Sp. p. 3483; Gaz. vol. 167; p. 614.
Bed, Portable. F. E. Hess. No. 1,006,942; Oct. 24; Sp. p. 5260; Gaz. vol. 171; p. 925.
Bed, Portable screen wall-. F. D. Scott. No. 1,003,153; Sept. 12; Sp. p. 2124; Gaz. vol. 170; p. 366.
Bed-rail fastener. L. P. Orr. No. 984,387; Feb. 14; Sp. p. 2453; Gaz. vol. 163; p. 415.
Bed-rail fastening, Corner. M. B. Okun. No. 1,001,882; Aug. 29; Sp. p. 5744; Gaz. vol. 169; p. 1048.
Bed, Recess-. R. H. Anderson. No. 984,178; Feb. 14; Sp. p. 1998; Gaz. vol. 163; p. 343.
Bed-rest. A. A. Adler. No. 989,888; Apr. 18; Sp. p. 3412; Gaz. vol. 165; p. 596.
Bed, Settee-. F. L. Andren. No. 992,469; May 16; Sp. p. 3528; Gaz. vol. 166; p. 634.
Bed-sheet and mattress retainer. N. P. Greusel. No. 1,012,629; Dec. 26; Sp. p. 4949; Gaz. vol. 173; p. 890.
Bed, Sofa-. P. E. Kroehler. No. 980,289; Jan. 3; Sp. p. 206; Gaz. vol. 162; p. 40.
Bed, Sofa-. S. Karpen and C. Hultgren. No. 981,926; Jan. 17; Sp. p. 3916; Gaz. vol. 162; p. 658.
Bed, Sofa-. S. Karpen. No. 987,376; Mar. 21; Sp. p. 3412; Gaz. vol. 164; p. 612.
Bed, Sofa-. P. E. Kroehler and W. Petterson, Sr. No. 987,998; Mar. 28; Sp. p. 4794; Gaz. vol. 164; p. 855.
Bed, Sofa-. P. E. Kroehler. No. 988,721; Apr. 4; Sp. p. 934; Gaz. vol. 165; p. 148.
Bed, Sofa-. L. G. Justh. No. 991,069; May 2; Sp. p. 499; Gaz. vol. 166; p. 86.
Bed, Sofa-. R. Deimel. No. 993,656; May 30; Sp. p. 6087; Gaz. vol. 166; p. 1103.
Bed, Sofa-. A. C. Klopping. No. 993,691; May 30; Sp. p. 6166; Gaz. vol. 166; p. 1116.
Bed, Sofa-. M. S. Karpen. No. 995,682; June 20; Sp. p. 3464; Gaz. vol. 167; p. 610.
Bed, Sofa-. S. Karpen. No. 1,011,440; Dec. 12; Sp. p. 2331; Gaz. vol. 173; p. 399.

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Bed, Sofa-. S. Karpen. No. 1,011,441; Dec. 12; Sp. p. 2334; Gaz. vol. 173; p. 399.
Bed, Sofa-. G. Fischrupp. No. 1,012,537; Dec. 19; Sp. p. 4733; Gaz. vol. 173; p. 813.
Bed, Sofa-. S. Karpen and C. Hultgren. No. 1,012,861; Dec. 26; Sp. p. 5483; Gaz. vol. 173; p. 970.
Bed-sofa. J. M. and A. G. Bostrom. No 998,869; July 25; Sp. p. 4976; Gaz. vol. 168; p. 893.
Bed, sofa, and swing, Combination. M. Krzewinski and M. Wojcik. No. 1,006,954; Oct. 24; Sp. p. 5276; Gaz. vol. 171; p. 928.
Bed, sofa, or davenport. A. G. Sharp and W. A. Pease. No. 1,009,444; Nov. 21; Sp. p. 4085; Gaz. vol. 172; p. 704.
Bed-spring. J. Schwartzman. No. 980,568; Jan. 3; Sp. p. 852; Gaz. vol. 162; p. 137.
Bed-spring. P. M. Barber. No. 991,930; May 9; Sp. p. 2355; Gaz. vol. 166; p. 418.
Bed-spring. F. Karr. No. 997,298; July 11; Sp. p. 1483; Gaz. vol. 168; p. 271.
Bed-spring. W. H. Macy and B. E. Wilbur. No. 999,816; Aug. 8; Sp. p. 1231; Gaz. vol. 169; p. 241.
Bed-spring. J. Schwartzman. No. 1,007,981; Nov. 7; Sp. p. 736; Gaz. vol. 172; p. 116.
Bed-spring. J. Schwartzman. No. 1,008,080; Nov. 7; Sp. p. 930; Gaz. vol. 172; p. 149.
Bed, Spring-. E. Roberti. No. 982,391; Jan. 24; Sp. p. 4895; Gaz. vol. 162; p. 848.
Bed-spring, Adjustable. A. M. McGiff. No. 989,173; Apr. 11; Sp. p. 1854; Gaz. vol. 165; p. 321.
Bed-spring-bottom tightener. F. W. Ziemendorf. No. 1,002,108; Aug. 29; Sp. p. 6197; Gaz. vol. 169; p. 1121.
Bed-spring, Corner. L. C. Lewis. No. 986,836; Mar. 14; Sp. p. 2292; Gaz. vol. 164; p. 397.
Bed-spring fabric. M. R. Mangan and F. B. Bosnic. No. 989,916; Apr. 18; Sp. p. 3486; Gaz. vol. 165; p. 606.
Bed-spring, Foldable. W. Thompson. No. 989,446; Apr. 11; Sp. p. 2440; Gaz. vol. 165; p. 412.
Bed-spring, Folding. W. E. Thompson. No. 985,380; Feb. 28; Sp. p. 4588; Gaz. vol. 163; p. 823.
Bed-spring frame. C. Clifford. No. 984,122; Feb. 14; Sp. p. 1886; Gaz. vol. 163; p. 324.
Bed-spring, Removable-coil. N. Mnuskin. No. 1,010,667; Dec. 5; Sp. p. 585; Gaz. vol. 173; p. 94.
Bed-spring support. T. Hauser. No. 982,959; Jan. 31; Sp. p. 6110; Gaz. vol. 162; p. 1067.
Bed-spring support. M. S. Swanstrom. No. 1,005,485; Oct. 10; Sp. p. 1992; Gaz. vol. 171; p. 351.
Bed-spring tightener. A. J. Pruitt. No. 984,391; Feb. 14; Sp. p. 2458; Gaz. vol. 163; p. 416.
Bed-spring tightener. S. W. Bennett and E. N. Hutchins. No. 985,130; Feb. 28; Sp. p. 4007; Gaz. vol. 163; p. 738.
Bed-spring-tightening device. M. W. Ingraham. No. 997,134; July 4; Sp. p. 1128; Gaz. vol. 168; p. 183.
Bed-spring, Woven-wire. A. Prince. No. 1,001,981; Aug. 29; Sp. p. 5967; Gaz. vol. 169; p. 1081.
Bed-support, Adjustable. A. R. Barnett. No. 1,008,107; Nov. 7; Sp. p. 990; Gaz. vol. 172; p. 159.
Bed-ventilating means. L. Gilbert. No. 1,007,028; Oct. 24; Sp. p. 5434; Gaz. vol. 171; p. 952.
Bed, Wall-. C. O. Pelletier. No. 988,024; Mar. 28; Sp. p. 4852; Gaz. vol. 164; p. 863.
Bed, Wall-. N. B. Douglass. No. 991,771; May 9; Sp. p. 2014; Gaz. vol. 166; p. 362.
Bed, Wall-. H. C. Mulvaney. No. 1,001,214; Aug. 22; Sp. p. 4341; Gaz. vol. 169; p. 790.
Bed-warmer. J. Hay. No. 1,005,030; Oct. 3; Sp. p. 1005; Gaz. vol. 171; p. 168.
Bed-warmer, Electric. J. Alden. No. 1,004,956; Oct. 3; Sp. p. 876; Gaz. vol. 171; p. 143.
Beds and other articles, Locking device for use in the manufacture of metal. G. Holden. No. 1,010,427; Dec. 5; Sp. p. 50; Gaz. vol. 173; p. 11.
Beds, Attachment for invalid-. J. M. Swenson and T. S. Olsen. No. 998,996; July 25; Sp. p. 5267; Gaz. vol. 168; p. 938.
Beds, Cot attachment for invalid-. J. C. Van Slyke. No. 985,306; Feb. 28; Sp. p. 4446; Gaz. vol. 163; p. 799.
Beds, couches, and the like, Bracing-leg for. T. E. Davis. No. 1,009,724; Nov. 28; Sp. p. 4640; Gaz. vol. 172; p. 843.
Beds, Head-rest for. J. G. Ryan. No. 981,691; Jan. 17; Sp. p. 3399; Gaz. vol. 162; p. 574.
Bedding sunning and airing device. A. F. Frisby. No. 1,002,510; Sept. 5; Sp. p. 734; Gaz. vol. 170; p. 108.
Bedclothes-holder. I. A. Tuttle. No. 985,477; Feb. 28; Sp. p. 4833; Gaz. vol. 163; p. 859.
Bedclothes-protector. F. O. Adams. No. 992,101; May 9; Sp. p. 2665; Gaz. vol. 166; p. 474.
Bedposts, Metal cap for. W. P. Seng. No. 997,420; July 11; Sp. p. 1711; Gaz. vol. 168; p. 311.
Bedstead. E. F. Fisher. No. 980,769; Jan. 3; Sp. p. 1265; Gaz. vol. 162; p. 203.
Bedstead. F. G. Gale. No. 982,265; Jan. 24; Sp. p. 4622; Gaz. vol. 162; p. 802.
Bedstead. R. and F. Cane. No. 982,934; Jan. 31; Sp. p. 6055; Gaz. vol. 162; p. 1060.
Bedstead. J. Penko. No. 996,131; June 27; Sp. p. 4426; Gaz. vol. 167; p. 801.
Bedstead. F. V. Cooper. No. 1,004,243; Sept. 26; Sp. p. 4562; Gaz. vol. 170; p. 807.
Bedstead. C. Allen. No. 1,004,957; Oct. 3; Sp. p. 877; Gaz. vol. 171; p. 143.
Bedstead. G. Markus. No. 1,008,168; Nov. 7; Sp. p. 1103; Gaz. vol. 172; p. 181.
Bedstead and trunk, Combination. S. L. Sisti. No. 996,370; June 27; Sp. p. 5007; Gaz. vol. 167; p. 882.
Bedstead attachment. C. W. Tarbet. No. 996,811; July 4; Sp. p. 429; Gaz. vol. 168; p. 72.
Bedstead-canopy. F. F. Schwaller. No. 983,407; Feb. 7; Sp. p. 318; Gaz. vol. 163; p. 54.
Bedstead corner-fastening. T. Mosley. No. 1,010,943; Dec. 5; Sp. p. 1207; Gaz. vol. 173; p. 190.
Bedstead extension. O. R. Cassell. No. 990,107; Apr. 18; Sp. p. 3873; Gaz. vol. 165; p. 669.
Bedstead, Folding. J. Olson and B. L. Petzke. No. 987,736; Mar. 28; Sp. p. 4183; Gaz. vol. 164; p. 764.
Bedstead, Metal. J. C. Lucas. No. 998,582; July 18; Sp. p. 4300; Gaz. vol. 168; p. 760.
Bedstead, Sheet-metal. C. A. Linden. No. 984,823; Feb. 21; Sp. p. 3409; Gaz. vol. 163; p. 601.
Bedstead, Sofa-. R. Coopersmith. No. 994,720; June 13; Sp. p. 1358; Gaz. vol. 167; p. 253.
Bedstead-trimmings, Heating device for. W. W. Vincent. No. 1,012,035; Dec. 19; Sp. p. 3692; Gaz. vol. 173; p. 643.
Bedsteads, Device for tilting and holding in a tilted position the mattress-supporting frames of. C. M. Schwab. No. 1,009,442; Nov. 21; Sp. p. 4080; Gaz. vol. 172; p. 703.
Bedsteads for supporting bed-covers, Frame adapted to be attached to. O. F. Brunelle. No. 984,070; Feb. 14; Sp. p. 1786; Gaz. vol. 163; p. 307.
Bedsteads, Short rail for. H. De Boer. No. 991,049; May 2; Sp. p. 458; Gaz. vol. 166; p. 79.
Bedsteads, Short rail for. P. Gobrecht. No. 1,008,711; Nov. 14; Sp. p. 2447; Gaz. vol. 172; p. 414.
Bee-controlling means. J. E. Hand. No. 993,060; May 23; Sp. p. 4785; Gaz. vol. 166; p. 870.
Bee-escape. E. C. Porter. No. 987,256; Mar. 21; Sp. p. 3160; Gaz. vol. 164; p. 572.
Bee-smoker. F. Danzenbaker. No. 993,439; May 30; Sp. p. 5597; Gaz. vol. 166; p. 1027.
Beehive. C. Spierling. No. 980,691; Jan. 3; Sp. p. 1117; Gaz. vol. 162; p. 178.
Beehive. S. Blagg. No. 987,425; Mar. 21; Sp. p. 3517; Gaz. vol. 164; p. 629.
Beehive. A. Rogers. No. 993,551; May 30; Sp. p. 5847; Gaz. vol. 166; p. 1066.
Beehive. L. A. Aspinwall. No. 1,004,335; Sept. 26; Sp. p. 4727; Gaz. vol. 170; p. 836.
Beehives, Honey-super for. W. Hosteter. No. 1,011,793; Dec. 12; Sp. p. 3137; Gaz. vol. 173; p. 524.
Beehives, Press for attaching comb foundations to honey-frames for. J. W. Ward. No. 985,236; Feb. 28; Sp. p. 4295; Gaz. vol. 163; p. 776.
Beehives, Super for. L. M. Linblom. No. 995,070; June 13; Sp. p. 2153; Gaz. vol. 167; p. 373.
Beef and vegetable extract. N. Sulzberger. No. 994,885; June 13; Sp. p. 1758; Gaz. vol. 167; p. 311.
Beer and preparing same. L. Wallerstein. No. 995,820; June 20; Sp. p. 3782; Gaz. vol. 167; p. 660.
Beer-cooler. J. J. Murphy. No. 1,004,459; Sept. 26; Sp. p. 4993; Gaz. vol. 170; p. 878.
Beer-making apparatus. E. Uhlmann. No. 998,815; July 25; Sp. p. 4839; Gaz. vol. 168; p. 874.
Beer or ale, Treating. L. Wallerstein. No. 995,824; June 20; Sp. p. 3788; Gaz. vol. 167; p. 660.
Beer or ale, Treating. L. Wallerstein. No. 995,825; June 20; Sp. p. 3791; Gaz. vol. 167; p. 660.
Beer or ale, Treating. L. Wallerstein. No. 995,826; June 20; Sp. p. 3793; Gaz. vol. 167; p. 660.
Beer or ale, Treating. L. Wallerstein. No. 997,873; July 11; Sp. p. 2723; Gaz. vol. 168; p. 467.
Beer-pipe-cleaning apparatus. J. J. Ryan and T. Diem. No. 988,899; Apr. 4; Sp. p. 1273; Gaz. vol. 165; p. 204.
Beer, Preparing. H. Holzer. No. 983,998; Feb. 14; Sp. p. 1639; Gaz. vol. 163; p. 283.
Beer-preserver. C. Bergsvik. No. 1,001,805; Aug. 29; Sp. p. 5570; Gaz. vol. 169; p. 1021.
Beer-racking machine. S. Schlangen. No. 1,009,695; Nov. 21; Sp. p. 4560; Gaz. vol. 172; p. 786.
Beet-blocker. H. E. Bercot. No. 1,007,421; Oct. 31; Sp. p. 6305; Gaz. vol. 171; p. 1146.
Beet-digger. F. Lotter. No. 999,380; Aug. 1; Sp. p. 375; Gaz. vol. 169; p. 66.
Beet-digger. N. Johnson. No. 1,001,039; Aug. 22; Sp. p. 3985; Gaz. vol. 169; p. 733.
Beet-puller. S. R. Giddings. No. 992,955; May 23; Sp. p. 4569; Gaz. vol. 166; p. 834.
Beet-puller. E. A. Smith. No. 1,011,867; Dec. 12; Sp. p. 3291; Gaz. vol. 173; p. 547.
Beet-topper. F. Briggs. No. 984,795; Feb. 21; Sp. p. 3354; Gaz. vol. 163; p. 592.
Beet-topper. V. Johnson. No. 995,350; June 13; Sp. p. 2717; Gaz. vol. 167; p. 465.
Beet-topper. F. Lotter. No. 999,381; Aug. 1; Sp. p. 377; Gaz. vol. 169; p. 66.
Beet-topper. R. E. Murphy. No. 1,001,215; Aug. 22; Sp. p. 4343; Gaz. vol. 169; p. 790.
Beet-topping mechanism. H. F. Barber. No. 985,754; Feb. 28; Sp. p. 5436; Gaz. vol. 163; p. 953.

Alphabetical list of inventions—Continued.

Beets, Producing juice from. H. Bosse. No. 1,005,931; Oct. 17; Sp. p. 3001; Gaz. vol. 171; p. 541.
Bell, Adjustable bar-. S. Johnson. No. 983,372; Feb. 7; Sp. p. 250; Gaz. vol. 163; p. 42.
Bell, Alarm-. B. Z. Smith. No. 1,007,611; Oct. 31; Sp. p. 6728; Gaz. vol. 171; p. 1211.
Bell and fire-alarm, Combined electric door-. C. E. Egan. No. 1,011,175; Dec. 12; Sp. p. 1751; Gaz. vol. 173; p. 305.
Bell, Bar-. J. S. Whitley and A. F. Gaylord. No. 990,791; Apr. 25; Sp. p. 5452; Gaz. vol. 165; p. 938.
Bell desk instrument. C. L. Williams. No. 991,583; May 9; Sp. p. 1628; Gaz. vol. 166; p. 300.
Bell, Door-. J. Straka and R. Lewis. No. 995,416; June 13; Sp. p. 2870; Gaz. vol. 167; p. 487.
Bell, Musical. J. C. Deagan. No. 991,704; May 9; Sp. p. 1900; Gaz. vol 166; p. 343.
Bell-ringer. F. Simons. No. 1,003,953; Sept. 19; Sp. p. 3869; Gaz. vol. 170; p. 679.
Bell-ringer, Automatic. A. W. Quick. No. 993,196; May 23; Sp. p. 5071; Gaz. vol. 166; p. 914.
Bell-ringer for door-knobs. W. Kriz. No. 983,626; Feb. 7; Sp. p. 795; Gaz. vol. 163; p. 127.
Bell-ringing apparatus. C. Stamberger. No. 996,157; June 27; Sp. p. 4474; Gaz. vol. 167; p. 809.
Bell-striking mechanism, Clock-controlled. D. F. Magee. No. 993,453; May 30; Sp. p. 5630; Gaz. vol. 166; p. 1031.
Bells and the like, Means for driving (ringing) of church-. G. L. Halvardson. No. 1,004,421; Sept. 26; Sp. p. 4908; Gaz. vol. 170; p. 865.
Bells, System of operating pneumatic. E. C. Wood and H. G. Marden. No. 995,834; June 20; Sp. p. 3806; Gaz. vol. 167; p. 663.
Bellows-pumps, Operating mechanism for. C. J. Harvey. No. 1,008,541; Nov. 14; Sp. p. 2068; Gaz. vol. 172; p. 353.
Bellows, Variable-tension. G. P. Brard. No. 1,009,380; Nov. 21; Sp. p. 3928; Gaz. vol. 172; p. 681.
Belt. M. T. Manoog. No. 984,099; Feb. 14; Sp. p. 1843; Gaz. vol. 163; p. 317.
Belt. L. H. Gilmer. No. 994,150; June 6; Sp. p. 93; Gaz. vol. 167; p. 18.
Belt, Abrading-machine. F. M. Furber. No. 1,004,009; Sept. 26; Sp. p. 4002; Gaz. vol. 170; p. 724.
Belt, Abrading-machine. F. M. Furber. No. 1,009,709; Nov. 21; Sp. p. 4584; Gaz. vol. 172; p. 790.
Belt-adjuster. J. N. Loutensock. No. 992,568; May 16; Sp. p. 3743; Gaz. vol. 166; p. 669
Belt and supporting-rollers, Traction-. P. E. Holt. No. 986,391; Mar. 7; Sp. p. 1339; Gaz. vol. 164; p. 215.
Belt, Apparel-. W. A. Simmons. No. 990,071; Apr. 18; Sp. p. 3798; Gaz. vol. 165; p. 658.
Belt, Apparel-. W. A. Simmons. No. 1,008,439; Nov. 14; Sp. p. 1835; Gaz. vol. 172; p. 316.
Belt, Chain driving-. J. E. Dukelow. No. 982,802; Jan. 31; Sp. p. 5762; Gaz vol. 162; p. 1015.
Belt-clamp. G. Lemieux. No. 993,846; May 30; Sp. p. 6487; Gaz. vol. 166; p. 1168.
Belt-clamp. H. H. Jones. No. 1,006,224; Oct. 17; Sp. p. 3655; Gaz. vol. 171; p. 643.
Belt-controlling means. M. Rockstroh. No. 993,317; May 23; Sp. p. 5307; Gaz. vol. 166; p. 952.
Belt, Conveyer-. T. Robins. No. 981,312; Jan. 10; Sp. p. 2607; Gaz. vol. 162; p. 424.
Belt, Conveyer-. N. S. Dodge. No. 989,952; Apr. 18; Sp. p. 3568; Gaz. vol. 165; p. 619.
Belt, Conveyer-. W. W. Spadone. No. 1,009,264; Nov. 21; Sp. p. 3664; Gaz. vol. 172; p. 639.
Belt-drive. V. F. Prentice. No. 980,435; Jan. 3; Sp. p. 535; Gaz. vol. 162; p. 90.
Belt-drive. P. T. Lindhard. No. 996,022; June 20; Sp. p. 4187; Gaz. vol. 167; p. 728.
Belt-drive elevator. E. L. Gale, Sr. No. 1,011,423; Dec. 12; Sp. p. 2294; Gaz. vol. 173; p. 392.
Belt drive for automatics, Single-. E. C. Henn. No. 985,590; Feb. 28; Sp. p. 5076; Gaz. vol. 163; p. 897.
Belt, Driving-. C. O. Gehrckens. No. 992,494; May 16; Sp. p. 3581; Gaz. vol. 166; p. 642.
Belt driving mechanism for reciprocating parts of machines. G. H. Benzon, Jr. No. 990,421; Apr. 25; Sp. p. 4621; Gaz. vol. 165; p. 813.
Belt-fastener. F. M. Linderman. No. 982,374; Jan. 24; Sp. p. 4862; Gaz. vol. 162; p. 842.
Belt-fastener. E. L. V. Uhlenhuth. No. 991,395; May 2; Sp. p. 1215; Gaz. vol. 166; p. 202.
Belt-fastener. W. H. Bristol. No. 1,000,149; Aug. 8; Sp. p. 1977; Gaz. vol. 169; p. 355.
Belt-fastener. W. H. Bristol. No. 1,004,356; Sept. 26; Sp. p. 4770; Gaz. vol. 170; p. 843.
Belt fastener, Metal-. C. Heinel. No. 983,712; Feb. 7; Sp. p. 980; Gaz. vol. 163; p. 156.
Belt fastener, Steel-. R. K. Cronkhite. No. 1,012,061; Dec. 19; Sp. p. 3746; Gaz. vol. 173; p. 651.
Belt-fastening. L. L. Griffiths. No. 987,716; Mar. 28; Sp. p. 4138; Gaz. vol. 164; p. 757.
Belt, Fireman's. J. Hogan. No. 1,010,763; Dec. 5; Sp. p. 822; Gaz. vol. 173; p. 128.
Belt-guide. F. Duesterhoff. No. 994,910; June 13; Sp. p. 1816; Gaz. vol. 167; p. 319.
Belt-guide. W. Ellis. No. 1,007,650; Oct. 31; Sp. p. 6810; Gaz. vol. 171; p. 1223.
Belt, Hunting-. D. H. Franks. No. 1,002,054; Aug. 29; Sp. p. 6108; Gaz. vol. 169; p. 1103.
Belt-lacing machine. E. Toole. No. 983,520; Feb. 7; Sp. p. 560; Gaz. vol. 163; p. 90.
Belt-lacing machine. J. A. Reck and O. Gibbon. No. 993,548; May 30; Sp. p. 5840; Gaz. vol. 166; p. 1065.
Belt-lacing machine. J. K. Diamond. No. 1,012,614; Dec. 26; Sp. p. 4912; Gaz. vol. 173; p. 884.
Belt-loop. M. J. Bracke. No. 996,203; June 27; Sp. p. 4629; Gaz. vol. 167; p. 826.
Belt, Multiple-band. H. Desmolières. No. 1,001,823; Aug. 29; Sp. p. 5601; Gaz. vol. 169; p. 1027.
Belt-operating mechanism for automatic players, Endless-. P. J. Dreher. No. 1,006,538; Oct. 24; Sp. p. 4373; Gaz. vol. 171; p. 784.
Belt or apron guide. C. H. Mattice. No. 996,103; June 27; Sp. p. 4366; Gaz. vol. 167; p. 790.
Belt-pin, garment-retainer, corset-protector, and waist-former, Combined. F. M. Kearns. No. 984,927; Feb. 21; Sp. p. 3599; Gaz. vol. 163; p. 632.
Belt, Power-. B. T. Stidworthy. No. 1,004,308; Sept. 26; Sp. p. 4677; Gaz. vol. 170; p. 828.
Belt, Power-conveying. E. C. C. Laird. No. 982,073; Jan. 17; Sp. p. 4248; Gaz. vol. 162; p. 708.
Belt-replacing device. L. Ladinski. No. 1,000,271; Aug. 8; Sp. p. 2231; Gaz. vol. 169; p. 397.
Belt, Reversible. E. Kuhn. No. 984,570; Feb. 21; Sp. p. 2869; Gaz. vol. 163; p. 511.
Belt, Rope. A. Luckweil. No. 992,725; May 16; Sp. p. 4049; Gaz. vol. 166; p. 723.
Belt-shifter. G. Williamson. No. 1,001,494; Aug. 22; Sp. p. 4898; Gaz. vol. 169; p. 885.
Belt-shifter. E. Helm. No. 1,005,207; Oct. 10; Sp. p. 1363; Gaz. vol. 171; p. 251.
Belt-shifter. W. Ross. No. 1,013,065; Dec. 26; Sp. p. 5940; Gaz. vol. 173; p. 1040.
Belt-shifter, Automatic. H. B. Lane. No. 1,001,053; Aug. 22; Sp. p. 4013; Gaz. vol. 169; p. 738.
Belt-shifter, Safety. D. Wehrlin. No. 988,918; Apr. 4; Sp. p. 1309; Gaz. vol. 165; p. 211.
Belt-shipping device. C. L. Austin. No. 1,006,343; Oct. 17; Sp. p. 3912; Gaz. vol. 171; p. 684.
Belt, Spring-. R. A. Roach. No. 1,012,101; Dec. 19; Sp. p. 3845; Gaz. vol. 173; p. 665.
Belt-stretching device. G. A. Clendenning. No. 980,490; Jan. 3; Sp. p. 683; Gaz. vol. 162; p. 110.
Belt, Suspender-. S. Neill. No. 981,466; Jan. 10; Sp. p. 2943; Gaz. vol. 162; p. 477.
Belt, Trousers-. G. D. Jones. No. 983,449; Feb. 7; Sp. p. 412; Gaz. vol. 163; p. 67.
Belts, Manufacture of hollow safety-. L. Ledermann. No. 996,097; June 27; Sp. p. 4354; Gaz. vol. 167; p. 788.
Bench: *See* Fruit-packing bench; Gas-retort bench; Greenhouse-bench; Piano-bench; Washbench; Work-bench.
Bench. H. H. Camp, B. J. Maynard, and B. P. Wise. No. 1,000,070; Aug. 8; Sp. p. 1781; Gaz. vol. 169; p. 328.
Bench. W. F. Blake. No. 1,008,007; Nov. 7; Sp. p. 784; Gaz. vol. 172; p. 124.
Bench adjustable work-rest. J. H. Howe. No. 980,784; Jan. 3; Sp. p. 1299; Gaz. vol. 162; p. 208.
Bench-clamp. O. Berg. No. 990,186; Apr. 18; Sp. p. 4051; Gaz. vol. 165; p. 696.
Bench-shears. S. W. Hassler. No. 989,355; Apr. 11; Sp. p. 2257; Gaz. vol. 165; p. 382.
Bending-machine. J. E. Morse and O. Andersen. No. 990,377; Apr. 25; Sp. p. 4503; Gaz. vol. 165; p. 795.
Bending-machine. M. D. Smith. No. 996,152; June 27; Sp. p. 4464; Gaz. vol. 167; p. 807.
Bending-machine. W. R. and J. E. Blackman. No. 997,364; July 11; Sp. p. 1616; Gaz. vol. 168; p. 293.
Bending-machine. J. C. Wilson. No. 1,007,834; Nov. 7; Sp. p. 434; Gaz. vol. 172; p. 65.
Bending-machine. C. E. Anderson. No. 1,008,404; Nov. 14; Sp. p. 1737; Gaz. vol. 172; p. 305.
Berry-box, Folding. W. W. Wood. No. 982,919; Jan. 31; Sp. p. 6027; Gaz. vol. 162; p. 1055.
Berry-box, Knockdown. J. Eklund and A. C. Gridley. No. 999,764; Aug. 8; Sp. p. 1131; Gaz. vol. 169; p. 224.
Berry-boxes, Automatic machine for making foldable or collapsible. O. C. Fenlason. No. 1,008,632; Nov. 14; Sp. p. 2272; Gaz. vol. 172; p. 387.
Berry-carrier. A. Munchausen. No. 1,005,998; Oct. 17; Sp. p. 3132; Gaz. vol. 171; p. 563.
Berry-washing device. C. E. Loetzer. No. 981,205; Jan. 10; Sp. p. 2339; Gaz. vol. 162; p. 386.
Berth, Sleeping-. W. H. Taylor. No. 989,081; Apr. 11; Sp. p. 1667; Gaz. vol. 165; p. 290.
Berth, Sleeping-car. C. F. Rydberg. No. 991,027; May 2; Sp. p. 412; Gaz. vol. 166; p. 71.
Beryllia and alumina, Composition of matter containing. T. B. Allen. No. 1,001,571; Aug. 22; Sp. p. 5048; Gaz. vol. 169; p. 910.
Bessemer converter, Lateral-blast. A. Baillot. No. 989,890; Apr. 18; Sp. p. 3418; Gaz. vol. 165; p. 596.
Beta-gamma-dimethylerythrene, Producing. F. Hofmann and K. Meisenburg. No. 1,002,399; Sept. 5; Sp. p. 513; Gaz. vol. 170; p. 72.

Alphabetical list of inventions—Continued.

Beta-gamma-dimethylerythrene, Producing. F. Hofmann and K. Meisenburg. No. 1,002,400; Sept. 5; Sp. p. 513; Gaz. vol. 170; p. 72.
Beta-methyltetramethylene-diamin, Producing. F. Hofmann and C. Coutelle. No. 991,721; May 9; Sp. p. 1938; Gaz. vol. 166; p. 348.
Bevel and angle tool. J. F. Gorenflo. No. 994,741; June 13; Sp. p. 1410; Gaz. vol. 167; p. 262.
Bevel and miter, Combined roof. J. M. Bragg. No. 996,451; June 27; Sp. p. 5192; Gaz. vol. 167; p. 910.
Bevel, protractor, and rule, Combined. J. La Follette. No. 996,591; June 27; Sp. p. 5465; Gaz. vol. 167; p. 956.
Beveling machine, Oval-. W. E. Browne. No. 1,001,346; Aug. 22; Sp. p. 4624; Gaz. vol. 169; p. 836.
Beverage and manufacturing same, Nourishing alcoholic. S. Bendle, D. I. Smith, and T. B. H. Thorne. No. 996,199; June 27; Sp. p. 4623; Gaz. vol. 167; p. 825.
Beverage-dispensing apparatus. J. H. Earl. No. 987,970; Mar. 28; Sp. p. 4744; Gaz. vol. 164; p. 846.
Beverage-dispensing apparatus. C. Krieger. No. 1,004,442; Sept. 26; Sp. p. 4960; Gaz. vol. 170; p. 872.
Beverage-dispensing mechanism. G. H. Hillyer. No. 1,004,428; Sept. 26; Sp. p. 4933; Gaz. vol. 170; p. 868.
Beverage holder, Iced-. M. J. Graham. No. 1,009,406; Nov. 21; Sp. p. 3997; Gaz. vol. 172; p. 691.
Beverages containing carbon dioxid, Manufacture of. K. and E. Gilg. No. 1,000,596; Aug. 15; Sp. p. 2980; Gaz. vol. 169; p. 545.
Beverages, Manufacture of fermented malt. R. Wahl. No. 1,006,154; Oct. 17; Sp. p. 3483; Gaz. vol. 171; p. 618.
Beverages, Preparing and dispensing. B. H. Calkin and E. W. Mayfield. No. 994,975; June 13; Sp. p. 1939; Gaz. vol. 167; p. 340.
Beverages, Producing carbonated. H. G. Millar. No. 1,006,773; Oct. 24; Sp. p. 4869; Gaz. vol. 171; p. 865.
Beverages, Treating fermented. L. Wallerstein. No. 995,821; June 20; Sp. p. 3785; Gaz. vol. 167; p. 660.
Bib and cock. J. H. Glauber. No. 1,007,553; Oct. 31; Sp. p. 6606; Gaz. vol. 171; p. 1191.
Bicycle attachment. A. P. Wood. No. 1,010,836; Dec. 5; Sp. p. 974; Gaz. vol. 173; p. 152.
Bicycle-gear. F. V. Whitman. No. 981,729; Jan. 17; Sp. p. 3466; Gaz. vol. 162; p. 587.
Bicycle-horn. O. C. Barg. No. 1,009,885; Nov. 28; Sp. p. 4967; Gaz. vol. 172; p. 897.
Bicycle-leader. W. M. and S. M. Elsom. No. 1,002,507; Sept. 5; Sp. p. 731; Gaz. vol. 170; p. 107.
Bicycle-lock. L. H. Balwick. No. 981,359; Jan. 10; Sp. p. 2715; Gaz. vol. 162; p. 440.
Bicycle lock and bell, Combined. L. Prisant. No. 999,150; July 25; Sp. p. 5559; Gaz. vol. 168; p. 988.
Bicycle shock-absorber. W. C. Oquist. No. 1,000,115; Aug. 8; Sp. p. 1907; Gaz. vol. 169; p. 344.
Bicycle-stand. C. A. Persons, T. Crabtree, and A. W. Darling. No. 1,004,190; Sept. 26; Sp. p. 4456; Gaz. vol. 170; p. 789.
Bicycle-support. S. D. Chelf. No. 1,007,532; Oct. 31; Sp. p. 6548; Gaz. vol. 171; p. 1184.
Bicycle-support. P. Berthold. No. 1,008,006; Nov. 7; Sp. p. 783; Gaz. vol. 172; p. 124.
Bicycle-wheel-rim straightener. H. J. Boosted. No. 1,012,593; Dec. 26; Sp. p. 4867; Gaz. vol. 173; p. 877.
Bicycles, motor-cycles, &c., Stand, support, and prop for. F. S. Silsby. No. 987,753; Mar. 28; Sp. p. 4212; Gaz. vol. 164; p. 769.
Bilge bodies, Making. R. W. Hardie. No. 992,421; May 16; Sp. p. 3432; Gaz. vol. 166; p. 618.
Bill-hook. E. C. Quimby and C. Anderson. No. 1,007,731; Nov. 7; Sp. p. 168; Gaz. vol. 172; p. 28.
Billet-turning device. F. E. Mesta. No. 1,006,582; Oct. 24; Sp. p. 4484; Gaz. vol. 171; p. 800.
Billiard-counter. F. C. Hobbs. No. 993,994; May 30; Sp. p. 6774; Gaz. vol. 166; p. 1217.
Billiard-cue. C. Winning. No. 983,189; Jan. 31; Sp. p. 6571; Gaz. vol. 162; p. 1144.
Billiard-cue. O. Schuermann. No. 983,938; Feb. 14; Sp. p. 1490; Gaz. vol. 163; p. 262.
Billiard-cue. J. V. Borroughs. No. 988,690; Apr. 4; Sp. p. 851; Gaz. vol. 165; p. 137.
Billiard-cue. A. L. Black. No. 990,098; Apr. 18; Sp. p. 3854; Gaz. vol. 165; p. 667.
Billiard-table cushion. J. S. Burroughes. No. 986,543; Mar. 14; Sp. p. 1675; Gaz. vol. 164; p. 297.
Billiards and like games, Cue for. J. E. Barrows. No. 1,007,668; Nov. 7; Sp. p. 17; Gaz. vol. 172; p. 6.
Billing device. G. C. Shepherd. No. 983,090; Jan. 31; Sp. p. 6403; Gaz. vol. 162; p. 1112.
Bin: *See* Counter-bin; Dry bin; Grain-bin.
Bin dispensing attachment. L. B. Thomas. No. 998,812; July 25; Sp. p. 4834; Gaz. vol. 168; p. 873.
Binder. C. H. Wiley. No. 990,323; Apr. 25; Sp. p. 4384; Gaz. vol. 165; p. 776.
Binder. G. Mackay. No. 1,005,444; Oct. 10; Sp. p. 1909; Gaz. vol. 171; p. 337.
Binder. D. W. Millsaps. No. 1,006,584; Oct. 24; Sp. p. 4495; Gaz. vol. 171; p. 801.
Binder and leaf therefor, Loose-leaf. G. C. Moore. No. 1,007,591; Oct. 31; Sp. p. 6682; Gaz. vol. 171; p. 1203.
Binder and securing-clip joint therefor. H. G. Buchan. No. 984,120; Feb. 14; Sp. p. 1882; Gaz. vol. 163; p. 323.
Binder, File-. A. Faifer. No. 998,963; July 25; Sp. p. 5194; Gaz. vol. 168; p. 927.
Binder-finger-releasing mechanism. C. E. Taylor. No. 994,545; June 6; Sp. p. 924; Gaz. vol. 167; p. 153.
Binder for transfer-cases, files, &c., Loose-leaf. E. Jay. No. 996,020; June 20; Sp. p. 4184; Gaz. vol. 167; p. 727.
Binder, Letter-. A. W. Collins. No. 999,300; Aug. 1; Sp. p. 206; Gaz. vol. 169; p. 39.
Binder, Loose-leaf. J. Q. Adams. No. 981,602; Jan. 17; Sp. p. 3213; Gaz. vol. 162; p. 546.
Binder, Loose-leaf. J. G. Griesinger. No. 982,593; Jan. 24; Sp. p. 5316; Gaz. vol. 162; p. 916.
Binder, Loose-leaf. G. E. Stansell. No. 982,750; Jan. 24; Sp. p. 5641; Gaz. vol. 162; p. 968.
Binder, Loose-leaf. E. Thompson. No. 983,007; Jan. 31; Sp. p. 6219; Gaz. vol. 162; p. 1084.
Binder, Loose-leaf. T. R. Eddy. No. 985,403; Feb. 28; Sp. p. 4640; Gaz. vol. 163; p. 831.
Binder, Loose-leaf. H. B. Bristol. No. 985,777; Mar. 7; Sp. p. 21; Gaz. vol. 164; p. 6.
Binder, Loose-leaf. H. B. Bristol. No. 986,542; Mar. 14; Sp. p. 1671; Gaz. vol. 164; p. 296.
Binder, Loose-leaf. A. Wagniere. No. 986,609; Mar. 14; Sp. p. 1812; Gaz. vol. 164; p. 321.
Binder, Loose-leaf. J. L. McMillan. No. 986,735; Mar. 14; Sp. p. 2072; Gaz. vol. 164; p. 363.
Binder, Loose-leaf. J. C. Dawson and T. E. Heeter. No. 986,910; Mar. 14; Sp. p. 2453; Gaz. vol. 164; p. 424.
Binder, Loose-leaf. J. F. Dixon. No. 986,911; Mar. 14; Sp. p. 2456; Gaz. vol. 164; p. 424.
Binder, Loose-leaf. J. C. Dawson. No. 988,982; Apr. 11; Sp. p. 1442; Gaz. vol. 165; p. 255.
Binder, Loose-leaf. R. B. Wilson. No. 990,324; Apr. 25; Sp. p. 4386; Gaz. vol. 165; p. 776.
Binder, Loose-leaf. C. E. Canan. No. 991,133; May 2; Sp. p. 645; Gaz. vol. 166; p. 110.
Binder, Loose-leaf. E. J. Pottinger. No. 991,239; May 2; Sp. p. 874; Gaz. vol. 166; p. 149.
Binder, Loose-leaf. R. G. Hubby. No. 991,993; May 9; Sp. p. 2469; Gaz. vol. 166; p. 439.
Binder, Loose-leaf. S. J. Pridgen and E. Clarke. No. 992,057; May 9; Sp. p. 2584; Gaz. vol. 166; p. 460.
Binder, Loose-leaf. E. Wienss and R. D. Miller. No. 992,465; May 16; Sp. p. 3509; Gaz. vol. 166; p. 632.
Binder, Loose-leaf. J. C. Dawson. No. 992,550; May 16; Sp. p. 3708; Gaz. vol. 166; p. 664.
Binder, Loose-leaf. D. W. Colby. No. 992,707; May 16; Sp. p. 4009; Gaz. vol. 166; p. 716.
Binder, Loose-leaf. A. M. Southard. No. 994,959; June 13; Sp. p. 1908; Gaz. vol. 167; p. 335.
Binder, Loose-leaf. O. C. Schultze. No. 995,035; June 13; Sp. p. 2063; Gaz. vol. 167; p. 361.
Binder, Loose-leaf. J. G. Meyers. No. 997,311; July 11; Sp. p. 1512; Gaz. vol. 168; p. 275.
Binder, Loose-leaf. C. J. Bryant. No. 997,599; July 11; Sp. p. 2071; Gaz. vol. 168; p. 370.
Binder, Loose-leaf. B. vom Eigen. No. 997,608; July 11; Sp. p. 2089; Gaz. vol. 168; p. 373.
Binder, Loose-leaf. L. M. Morehouse. No. 997,634; July 11; Sp. p. 2162; Gaz. vol. 168; p. 383.
Binder, Loose-leaf. C. F. McBee. No. 998,541; July 18; Sp. p. 4203; Gaz. vol. 168; p. 745.
Binder, Loose-leaf. J. B. Barlow. No. 1,000,360; Aug. 15; Sp. p. 2434; Gaz. vol. 169; p. 458.
Binder, Loose-leaf. W. C. Loud. No. 1,001,539; Aug. 22; Sp. p. 4985; Gaz. vol. 169; p. 899.
Binder, Loose-leaf. G. W. Thomas. No. 1,003,824; Sept. 19; Sp. p. 3553; Gaz. vol. 170; p. 632.
Binder, Loose-leaf. H. J. Wiegand. No. 1,005,388; Oct. 10; Sp. p. 1780; Gaz. vol. 171; p. 318.
Binder, Loose-leaf. E. H. Elder. No. 1,005,422; Oct. 10; Sp. p. 1859; Gaz. vol. 171; p. 329.
Binder, Loose-leaf. E. H. Elder. No. 1,005,423; Oct. 10; Sp. p. 1860; Gaz. vol. 171; p. 329.
Binder, Loose-leaf. J. G. Magin. No. 1,007,464; Oct. 31; Sp. p. 6394; Gaz. vol. 171; p. 1161.
Binder, Loose-leaf. D. W. Hallock. No. 1,008,139; Nov. 7; Sp. p. 1050; Gaz. vol. 172; p. 171.
Binder, Loose-leaf. E. H. Elder. No. 1,008,631; Nov. 14; Sp. p. 2270; Gaz. vol. 172; p. 386.
Binder, Loose-leaf. A. C. Freese. No. 1,008,810; Nov. 14; Sp. p. 2663; Gaz. vol. 172; p. 447.
Binder, Loose-leaf. H. Hellweg. No. 1,009,412; Nov. 21; Sp. p. 4013; Gaz. vol. 172; p. 693.
Binder, Loose-leaf. W. Fairchild and G. L. Cooper. No. 1,010,607; Dec. 5; Sp. p. 468; Gaz. vol. 173; p. 73.
Binder, Loose-leaf. J. D. Hughes. No. 1,011,346; Dec. 12; Sp. p. 2145; Gaz. vol. 173; p. 366.
Binder, Loose-leaf. J. Loth. No. 1,011,827; Dec. 12; Sp. p. 3201; Gaz. vol. 173; p. 534.
Binder, Music-. D. F. Magee. No. 981,932; Jan. 17; Sp. p. 3954; Gaz. vol. 162; p. 661.
Binder or loose-sheet holder, Temporary. G. P. Wigginton. No. 1,001,489; Aug. 22; Sp. p. 4888; Gaz. vol. 169; p. 883.
Binder or loose-sheet holder, Temporary. H. D. Manning. No. 1,002,291; Sept. 5; Sp. p. 239; Gaz. vol. 170; p. 32.
Binder-reel. E. Seibert. No. 981,319; Jan. 10; Sp. p. 2622; Gaz. vol. 162; p. 427.
Binder, Separable. H. G. Razall. No. 981,943; Jan. 17; Sp. p. 3979; Gaz. vol. 162; p. 664.

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Binder, Temporary. G. C. Shepherd. (Reissue.) No. 13,294; Sept. 26; Sp. p. 5176; Gaz. vol. 170; p. 910.
Binder, Temporary. G. C. Shepherd. (Reissue.) No. 13,295; Sept. 26; Sp. p. 5178; Gaz. vol. 170; p. 910.
Binder, Temporary. G. P. Wigginton. No. 1,010,556; Dec. 5; Sp. p. 337; Gaz. vol. 173; p. 54.
Binder, Temporary. F. L. Manny. No. 1,012,090; Dec. 19; Sp. p. 3817; Gaz. vol. 173; p. 661.
Binding and tying mechanism. N. W. Young. No. 1,008,767; Nov. 14; Sp. p. 2578; Gaz. vol. 172; p. 433.
Binding device for loose-leaf books. J. Griesinger. No. 1,004,777; Oct. 3; Sp. p. 497; Gaz. vol. 171; p. 82.
Binding, Loose-leaf. H. W. Knautz. No. 1,005,559; Oct. 10; Sp. p. 2168; Gaz. vol. 171; p. 378.
Binding machine, Tablet-. C. F. Taylor. No. 984,115; Feb. 14; Sp. p. 1872; Gaz. vol. 163; p. 321.
Binding-post. G. Garretson. No. 1,005,192; Oct. 10; Sp. p. 1325; Gaz. vol. 171; p. 246.
Binding-post, Electrical. W. Hector. No. 980,945; Jan. 10; Sp. p. 1696; Gaz. vol. 162; p. 293.
Binding-post for loose leaves and other purposes. I. E. Palmer. No. 1,009,556; Nov. 21; Sp. p. 4307; Gaz. vol. 172; p. 742.
Biplanes, Balancing device for lifting. F. E. Borkenhagen. No. 1,008,888; Nov. 14; Sp. p. 2812; Gaz. vol. 172; p. 473.
Bird-cages, Food-receptacle for. J. B. Cousin. No. 992,167; May 16; Sp. p. 2843; Gaz. vol. 166; p. 529.
Biscuit. G. H. Hosmer. No. 994,257; June 6; Sp. p. 324; Gaz. vol. 167; p. 55.
Biscuit, Dog-. C. Ellis. No. 982,711; Jan. 24; Sp. p. 5554; Gaz. vol. 162; p. 956.
Biscuit, Filamentous cereal. E. L. Wallace. No. 993,922; May 30; Sp. p. 6615; Gaz. vol. 166; p. 1192.
Biscuit from cereal flakes, Machine for manufacturing. J. L. Kellogg. No. 985,178; Feb. 28; Sp. p. 4156; Gaz. vol. 163; p. 756.
Biscuit-machine. J. H. Kellogg. No. 992,880; May 23; Sp. p. 4391; Gaz. vol. 166; p. 806.
Biscuits and the like, Machine for the manufacture of filled. W. T. Carr. No. 1,006,530; Oct. 24; Sp. p. 4349; Gaz. vol. 171; p. 780.
Biscuits, Machine and method for manufacturing shredded-wheat cup-. W. E. Williams. No. 991,584; May 9; Sp. p. 1629; Gaz. vol. 166; p. 301.
Bismuth beta-naphtholate, Preparing. J. L. Turner and C. E. Vanderkleed. No. 985,559; Feb. 28; Sp. p. 5010; Gaz. vol. 163; p. 887.
Bismuth salt of iodized resorcin-sulfonic acid. O. B. May. No. 1,003,191; Sept. 12; Sp. p. 2217; Gaz. vol. 170; p. 381.
Bit: *See* Auger-bit; Boring-bit; Brace-bit; Bridle-bit; Check-bit; Curb-bit; Drill-bit; Drilling-bit; Expansible bit; Mining-bit; Reaming-bit; Rotary bit.
Bit. O. Smith. No. 981,488; Jan. 10; Sp. p. 2982; Gaz. vol. 162; p. 485.
Bit. F. A. Pica. No. 1,008,363; Nov. 14; Sp. p. 1624; Gaz. vol. 172; p. 291.
Bit-brace attachment. O. P. Hanson. No. 988,263; Mar. 28; Sp. p. 5316; Gaz. vol. 164; p. 941.
Bit-brace bows, Connection for. E. A. Schade. No. 981,693; Jan. 17; Sp. p. 3403; Gaz. vol. 162; p. 575.
Bit for rock-drills, moils, and picks. W. Childs. No. 994,668; June 6; Sp. p. 1200; Gaz. vol. 167; p. 195.
Bit-holder. E. J. Elsas. No. 1,001,376; Aug. 22; Sp. p. 4693; Gaz. vol. 169; p. 846.
Bit-pitcher, Automatic. J. A. Pilcher. No. 991,362; May 2; Sp. p. 1150; Gaz. vol. 166; p. 192.
Bit-stock. P. Dorsey. No. 1,000,900; Aug. 15; Sp. p. 3620; Gaz. vol. 169; p. 651.
Bit-stock. P. Flora. No. 1,003,098; Sept. 12; Sp. p. 2023; Gaz. vol. 170; p. 348.
Bituminous compound and making the same, Liquid. H. R. Kasson and S. S. Saxton. No. 998,691; July 25; Sp. p. 4555; Gaz. vol. 168; p. 830.
Blackboard. T. R. Spivey. No. 992,611; May 16; Sp. p. 3837; Gaz. vol. 166; p. 684.
Blackboard. T. H. Costello. No. 1,004,375; Sept. 26; Sp. p. 4813; Gaz. vol. 170; p. 850.
Blackboard-frame. W. H. Scott, Sr. No. 990,067; Apr. 18; Sp. p. 3792; Gaz. vol. 165; p. 657.
Blacking-applying machine for boots and shoes. J. C. C. Scheer. No. 989,928; Apr. 18; Sp. p. 3513; Gaz. vol. 165; p. 610.
Blacking machine, Heel-. F. M. Furber. No. 1,007,777; Nov. 7; Sp. p. 276; Gaz. vol. 172; p. 45.
Blacking machine, Shoe-. I. J. Weigle. No. 983,525; Feb. 7; Sp. p. 568; Gaz. vol. 163; p. 91.
Blackleading-machine. L. F. Eaton. No. 1,003,441; Sept. 19; Sp. p. 2731; Gaz. vol. 170; p. 501.
Blacksmith's support. S. O. Duemler. No. 988,447; Apr. 4; Sp. p. 338; Gaz. vol. 165; p. 54.
Blade-burnishing machine. A. J. Gurnea. No. 998,768; July 25; Sp. p. 4749; Gaz. vol. 168; p. 858.
Blade-holder. P. R. Buchholz. No. 1,003,870; Sept. 19; Sp. p. 3651; Gaz. vol. 170; p. 649.
Blade-truing device. J. R. Thomas. No. 985,473; Feb. 28; Sp. p. 4823; Gaz. vol. 163; p. 857.
Blades, Edge-turning device for. A. L. Blodgett. No. 990,518; Apr. 25; Sp. p. 4856; Gaz. vol. 165; p. 847.
Blank-cutting machine. F. A. Miller. No. 998,713; July 25; Sp. p. 4598; Gaz. vol. 168; p. 838.
Blank-feeding machine. C. W. Graham. No. 983,822; Feb. 7; Sp. p. 1198; Gaz. vol. 163; p. 193.
Blank-shaping machine. W. J. Going. No. 983,436; Feb. 7; Sp. p. 375; Gaz. vol. 163; p. 62.
Blank-shaping machine. W. J. Going. (Reissue.) No. 13,226; Apr. 11; Sp. p. 2688; Gaz. vol. 165; p. 451.
Blank-slotting machine. G. A. Fisher and J. A. Morrison. No. 1,012,538; Dec. 19; Sp. p. 4734; Gaz. vol. 173; p. 813.
Blanks, sheets, and the like, Mechanism for feeding. E. W. Labombarde. No. 1,011,820; Dec. 12; Sp. p. 3187; Gaz. vol. 173; p. 532.
Blanket-protector. F. R. Mead. No. 1,009,332; Nov. 21; Sp. p. 3814; Gaz. vol. 172; p. 664.
Blast-furnace. F. J. Zippler. No. 986,792; Mar. 14; Sp. p. 2195; Gaz. vol. 164; p. 382.
Blast-furnace. L. N. McCarter. No. 994,175; June 6; Sp. p. 148; Gaz. vol. 167; p. 26.
Blast-furnace. C. F. Jenkins. No. 1,010,265; Nov. 28; Sp. p. 5727; Gaz. vol. 172; p. 1024.
Blast-regulator. A. B. Pella. No. 1,007,970; Nov. 7; Sp. p. 719; Gaz. vol. 172; p. 112.
Blasting-needle attachment. L. E. M. Harris. No. 984,089; Feb. 14; Sp. p. 1825; Gaz. vol. 163; p. 314.
Blasting-plug. I. Swingle. No. 993,907; May 30; Sp. p. 6588; Gaz. vol. 166; p. 1187.
Bleach-chamber. C. W. Marsh. No. 1,007,366; Oct. 31; Sp. p. 6185; Gaz. vol. 171; p. 1127.
Bleaching and softening jute fiber. S. A. Flower. No. 994,508; June 6; Sp. p. 836; Gaz. vol. 167; p. 140.
Bleaching cloth. E. D. Jefferson. No. 992,133; May 9; Sp. p. 2741; Gaz. vol. 166; p. 485.
Bleaching composition. A. Stiegelmann and E. Dehnel. No. 984,312; Feb. 14; Sp. p. 2308; Gaz. vol. 163; p. 391.
Blind, Detachable. J. H. Bellefeuil. No. 1,010,218; Nov. 28; Sp. p. 5640; Gaz. vol. 172; p. 1009.
Blind, Detachable awning-. G. W. Pearson. No. 992,447; May 16; Sp. p. 3476; Gaz. vol. 166; p. 626.
Blind-fast. W. H. Swift. No. 982,396; Jan. 24; Sp. p. 4902; Gaz. vol. 162; p. 849.
Blind holder, Window-. J. J. Leiser. No. 990,995; May 2; Sp. p. 350; Gaz. vol. 166; p. 60.
Blind-iron. F. S. Barden. No. 994,561; June 6; Sp. p. 957; Gaz. vol. 167; p. 158.
Blind, Sliding window-. A. H. Ehlert. No. 997,120; July 4; Sp. p. 1099; Gaz. vol. 168; p. 178.
Blind, Venetian. G. Sollitt. No. 1,001,469; Aug. 22; Sp. p. 4856; Gaz. vol. 169; p. 876.
Blinds, Swinging and tilting. J. Fry. No. 1,004,563; Oct. 3; Sp. p. 33; Gaz. vol. 171; p. 7.
Block: *See* Baling-press division-block; Bolster-block; Brake-block; Buffer-block; Building-block; Chuck-block; Concrete block; Connection-block; Coping-block; Engraver's block; Fuse-block; Glass paving-block; Hanger-block; Hat-block; Jack-block; Logging sheave-block; Meter connection-block; Paper-roll lock-block; Paving-block; Protector-block; Sheave-block; Snatch-block; Terminal block; Toy building-block; Trip-block; Turbine space-block; Wire-drawing block; Workman's supporting-block.
Block and brick mold, Plastic. M. Traxler, E. E. Long, and F. M. Weld. No. 998,051; July 18; Sp. p. 3138; Gaz. vol. 168; p. 571.
Block-machine scraper. I. Grogg. No. 986,459; Mar. 14; Sp. p. 1491; Gaz. vol. 164; p. 269.
Block-mold. C. Carter and S. Miller. No. 986,266; Mar. 7; Sp. p. 1070; Gaz. vol. 164; p. 171.
Block-mold tamper. A. McHench. No. 988,367; Apr. 4; Sp. p. 168; Gaz. vol. 165; p. 28.
Block-signal joint, Automatic. W. McGuire and L. H. Kinney. No. 992,374; May 16; Sp. p. 3341; Gaz. vol. 166; p. 601.
Block-signal system, Automatic. W. E. Foster. No. 1,011,602; Dec. 12; Sp. p. 2734; Gaz. vol. 173; p. 459.
Block-signal system, Electric. W. J. Bell. No. 1,008,521; Nov. 14; Sp. p. 2021; Gaz. vol. 172; p. 345.
Block structure, Artificial-. E. F. Viani. No. 996,437; June 27; Sp. p. 5169; Gaz. vol. 167; p. 905.
Block system for tramway-lines, Mechanical. D. D. Samaia. No. 1,011,250; Dec. 12; Sp. p. 1922; Gaz. vol. 173; p. 331.
Block system for tramways, Mechanical. D. Samaia. No. 1,011,249; Dec. 12; Sp. p. 1921; Gaz. vol. 173; p. 331.
Blotter, Finger-. A. R. King. No. 1,002,523; Sept. 5; Sp. p. 763; Gaz. vol. 170; p. 112.
Blotter, Fountain-pen. A. Niflot. No. 1,010,676; Dec. 5; Sp. p. 606; Gaz. vol. 173; p. 97.
Blotter-pad and calendar, Combined desk. H. E. Richardson. No. 990,211; Apr. 18; Sp. p. 4095; Gaz. vol. 165; p. 704.
Blotting. J. M. Burby. No. 994,667; June 6; Sp. p. 1198; Gaz. vol. 167; p. 195.
Blotting-pad. J. Stockinger. No. 990,463; Apr. 25; Sp. p. 4700; Gaz. vol. 165; p. 826.
Blotting-pad. K. O. F. Peterson. No. 1,009,785; Nov. 28; Sp. p. 4772; Gaz. vol. 172; p. 864.
Blouse. L. H. Hays. No. 983,551; Feb. 7; Sp. p. 655; Gaz. vol. 163; p. 100.

Alphabetical list of inventions—Continued.

Blower. J. J. Stocker. No. 996,160; June 27; Sp. p. 4481; Gaz. vol. 167; p. 810.
Blower, Air-compressing. P. J. Fanning. No. 983,813; Feb. 7; Sp. p. 1179; Gaz. vol. 163; p. 190.
Blower, Boiler-. T. S. Waller and E. B. Barnhill. No. 981,146; Jan. 10; Sp. p. 2218; Gaz. vol. 162; p. 365.
Blower, Boiler-. E. B. Barnhill. No. 982,459; Jan. 24; Sp. p. 5060; Gaz. vol. 162; p. 873.
Blower, Boiler-. A. G. Mattsson. No. 1,003,005; Sept. 12; Sp. p. 1828; Gaz. vol. 170; p. 316.
Blower, Boiler-. E. K. Standish. No. 1,006,019; Oct. 17; Sp. p. 3174; Gaz. vol. 171; p. 570.
Blower, Boiler-. A. G. Mattsson. No. 1,012,263; Dec. 19; Sp. p. 4197; Gaz. vol. 173; p. 720.
Blower, exhauster, and the like. T. Kundtz. No. 996,651; July 4; Sp. p. 116; Gaz. vol. 168; p. 21.
Blower, exhauster, and the like. T. Kundtz. No. 1,004,039; Sept. 26; Sp. p. 4087; Gaz. vol. 170; p. 735.
Blower, Fan-. A. Ohlson and C. A. Hallin. No. 985,279; Feb. 28; Sp. p. 4385; Gaz. vol. 163; p. 791.
Blower, Flue-. J. A. Russell. No. 1,010,523; Dec. 5; Sp. p. 277; Gaz. vol. 173; p. 44.
Blower for boilers. E. K. Standish. No. 995,811; June 20; Sp. p. 3762; Gaz. vol. 167; p. 656.
Blower for boilers. T. S. Waller. No. 995,931; June 20; Sp. p. 4015; Gaz. vol. 167; p. 698.
Blower for pneumatic signals. C. S. McQueeney. No. 1,012,886; Dec. 26; Sp. p. 5546; Gaz. vol. 173; p. 978.
Blower, pump, compressor, &c., Centrifugal. H. Keller. No. 996,859; July 4; Sp. p. 539; Gaz. vol. 168; p. 88.
Blower, Rotary. T. W. Green. No. 994,311; June 6; Sp. p. 423; Gaz. vol. 167; p. 73.
Blower, Rotary. T. W. Green. No. 1,004,776; Oct. 3; Sp. p. 493; Gaz. vol. 171; p. 81.
Blower, Rotary. E. P. Reichhelm. No. 1,012,440; Dec. 19; Sp. p. 4549; Gaz. vol. 173; p. 779.
Blower, Turbine-. W. McClave. No. 998,709; July 25; Sp. p. 4591; Gaz. vol. 168; p. 836.
Blowing-engine or compressor. G. B. Petsche. No. 986,752; Mar. 14; Sp. p. 2110; Gaz. vol. 164; p. 369.
Blowing-engine or compressor. G. B. Petsche. No. 1,008,558; Nov. 14; Sp. p. 2100; Gaz. vol. 172; p. 359.
Blowing-engine or compressor. G. B. Petsche. No. 1,008,559; Nov. 14; Sp. p. 2105; Gaz. vol. 172; p. 360.
Blowing or compressing apparatus, Air. J. E. Johnson, Jr. No. 992,204; May 16; Sp. p. 2910; Gaz. vol. 166; p. 541.
Blowpipe. J. F. Williams. No. 981,342; Jan. 10; Sp. p. 2678; Gaz. vol. 162; p. 435.
Blowpipe apparatus. G. W. Hopkins. No. 985,896; Mar. 7; Sp. p. 296; Gaz. vol. 164; p. 48.
Blowpipe or torch. A. C. McGee. No. 1,007,588; Oct. 31; Sp. p. 6679; Gaz. vol. 171; p. 1203.
Blowpipe, Rail-boring. P. Lulli. No. 1,004,179; Sept. 26; Sp. p. 4436; Gaz. vol. 170; p. 784.
Blue-print machine. C. F. Pease. No. 998,259; July 18; Sp. p. 3595; Gaz. vol. 168; p. 645.
Blue-print machine. C. F. Pease. No. 1,004,069; Sept. 26; Sp. p. 4152; Gaz. vol. 170; p. 746.
Blue-print machine. J. L. Marquis. No. 1,013,033; Dec. 26; Sp. p. 5876; Gaz. vol. 173; p. 1027.
Blue-print-paper holder. L. Wittels. No. 1,010,472; Dec. 5; Sp. p. 152; Gaz. vol. 173; p. 27.
Blue-print washing and drying machine. O. Hoops. No. 1,005,430; Oct. 10; Sp. p. 1875; Gaz. vol. 171; p. 332.
Blue-print-washing machine. J. W. Upp and W. O. Wakefield. No. 1,008,624; Nov. 14; Sp. p. 2254; Gaz. vol. 172; p. 384.
Board: *See* Car running-board; Couch-roll guard-board; Display-board; Drain-board; Drawing-board; Game-board; Hammer-lifting board; Insulating-board; Ironing-board; Laminated board; Leather-board; Music-instruction board; Paper-board; Plaster-board; Score-board; Tally-board; Textile-board; Thread-board; Time-check board; Tracker-board; Wagon side-board; Wagon stop-board; Washboard.
Board and cutter, Combined. G. M. Crocker. No. 992,755; May 23; Sp. p. 4120; Gaz. vol. 166; p. 762.
Board-set and nail-driver, Combined. A. Vaughan. No. 1,000,859; Aug. 15; Sp. p. 3538; Gaz. vol. 169; p. 636.
Boards from pieces, Machine for building up. E. J. Bell, No. 990,829; May 2; Sp. p. 2; Gaz. vol. 166; p. 3.
Boat. C. H. Sawyer. No. 984,444; Feb. 14; Sp. p. 2557; Gaz. vol. 163; p. 433.
Boat. C. J. Lindgren. No. 985,187; Feb. 28; Sp. p. 4174; Gaz. vol. 163; p. 759.
Boat. A. G. Le Meille. No. 996,654; July 4; Sp. p. 121; Gaz. vol. 168; p. 22.
Boat. H. M. Van Weede. No. 996,738; July 4; Sp. p. 275; Gaz. vol. 168; p. 48.
Boat. F. W. Wieland. No. 998,437; July 18; Sp. p. 4001; Gaz. vol. 168; p. 710.
Boat. P. I. Andrews. No. 1,001,601; Aug. 29; Sp. p. 5127; Gaz. vol. 169; p. 951.
Boat. J. E. Church. No. 1,006,435; Oct. 17; Sp. p. 4107; Gaz. vol. 171; p. 716.
Boat. J. Maly. No. 1,012,678; Dec. 26; Sp. p. 5044; Gaz. vol. 173; p. 906.
Boat-alarm. C. L. Hoffman. No. 1,012,852; Dec. 26; Sp. p. 5469; Gaz. vol. 173; p. 968.
Boat and like vessel. F. Dillon. No. 1,005,698; Oct. 10; Sp. p. 2483; Gaz. vol. 171; p. 426.
Boat attachment. A. Kalous. 980,964; Jan. 10; Sp. p. 1803; Gaz. vol. 162; p. 300.
Boat attachment for drawing seines from the water. N. O. Davidson. No. 981,918; Jan. 17; Sp. p. 3899; Gaz. vol. 162; p. 655.
Boat attachment, Motor-. J. E. Erikson. No. 1,002,661; Sept. 5; Sp. p. 1060; Gaz. vol. 170; p. 159.
Boat-bailer, Automatic. C. H. Hitchcock. No. 983,620; Feb. 7; Sp. p. 783; Gaz. vol. 163; p. 124.
Boat, Bathing-. M. J. Ufford. No. 982,025; Jan. 17; Sp. p. 4144; Gaz. vol. 162; p. 692.
Boat construction. E. L. M. Sivard. No. 986,411; Mar. 7; Sp. p. 1378; Gaz. vol. 164; p. 222.
Boat construction. F. B. Langston. No. 1,003,364; Sept. 12; Sp. p. 2574; Gaz. vol. 170; p. 443.
Boat-controlling mechanism. E. Hefty and A. B. Lamberson. No. 1,009,664; Nov. 21; Sp. p. 4498; Gaz. vol. 172; p. 775.
Boat-detaching appliance. H. E. Rottmer. No. 998,263; July 18; Sp. p. 3606; Gaz. vol. 168; p. 647.
Boat-discharging mechanism. W. W. Robinson. No. 987,017; Mar. 14; Sp. p. 2644; Gaz. vol. 164; p. 457.
Boat, Floating flying-. J. P. C. Bouscal. No. 999,149; July 25; Sp. p. 5556; Gaz. vol. 168; p. 988.
Boat for carrying smaller vessels and the like. E. Schneider. No. 1,012,166; Dec. 19; Sp. p. 3984; Gaz. vol. 173; p. 687.
Boat-handling apparatus, Life-. R. Huntington. No. 1,009,753; Nov. 28; Sp. p. 4702; Gaz. vol. 172; p. 853.
Boat-hull and ballast means therefor. F. W. Frampton. No. 987,059; Mar. 14; Sp. p. 2726; Gaz. vol. 164; p. 471.
Boat, Ice-. W. M. Stanbrough. No. 1,006,310; Oct. 17; Sp. p. 3844; Gaz. vol. 171; p. 673.
Boat launching and stowing apparatus. A. J. Lewkowicz. No. 1,009,758; Nov. 28; Sp. p. 4714; Gaz. vol. 172; p. 854.
Boat, Life-. G. Johnson. No. 980,790; Jan. 3; Sp. p. 1307; Gaz. vol. 162; p. 210.
Boat, Life-. E. J. J. Leblond. No. 1,005,563; Oct. 10; Sp. p. 2177; Gaz. vol. 171; p. 379.
Boat, Life-. F. W. Martin. No. 1,011,464; Dec. 12; Sp. p. 2388; Gaz. vol. 173; p. 408.
Boat loading and trimming mechanism. G. H. Hulett. No. 1,010,767; Dec. 5; Sp. p. 829; Gaz. vol. 173; p. 129.
Boat, Metallic. F. H. Darrow. No. 1,000,786; Aug. 15; Sp. p. 3397; Gaz. vol. 169; p. 610.
Boat, Motor-. C. E. Loetzer. No. 1,007,583; Oct. 31; Sp. p. 6671; Gaz. vol. 171; p. 1201.
Boat, Motor-. W. F. Hunter. No. 1,010,053; Nov. 28; Sp. p. 5325; Gaz. vol. 172; p. 954.
Boat, Motor-. A. Niemczura. No. 1,012,416; Dec. 19; Sp. p. 4506; Gaz. vol. 173; p. 771.
Boat-releasing hook. J. Jordan. No. 998,524; July 18; Sp. p. 4175; Gaz. vol. 168; p. 739.
Boat-releasing mechanism. F. Eriksen. No. 984,421; Feb. 14; Sp. p. 2515; Gaz. vol. 163; p. 425.
Boat-sculling apparatus. J. Sax. No. 1,003,516; Sept. 19; Sp. p. 2883; Gaz. vol. 170; p. 527.
Boat, Submarine. R. D'Equevilley. No. 988,632; Apr. 4; Sp. p. 740; Gaz. vol. 165; p. 118.
Boat, Submarine. G. B. Yerton. No. 994,552; June 6; Sp. p. 935; Gaz. vol. 167; p. 155.
Boat, Submarine. S. C. Rockman. No. 998,204; July 18; Sp. p. 3465; Gaz. vol. 168; p. 625.
Boat, Submarine or submergible. E. L. Peacock. No. 1,003,063; Sept. 12; Sp. p. 1935; Gaz. vol. 170; p. 335.
Boat, Submarine or submersible. C. Laurenti. No. 985,911; Mar. 7; Sp. p. 326; Gaz. vol. 164; p. 53.
Boat, Unsinkable. J. Pastorel. No. 1,010,309; Nov. 28; Sp. p. 5834; Gaz. vol. 172; p. 1039.
Boats and for other purposes, Engaging and disengaging gear for attaching and liberating. J. W. Walker. No. 1,010,708; Dec. 5; Sp. p. 675; Gaz. vol. 173; p. 109.
Boats, Escape device for submarine. J. Schnitter. No. 1,007,145; Oct. 31; Sp. p. 5718, Gaz. vol. 171; p. 1049.
Boats, Exhaust-nozzle for power-. W. E. Geyer. No. 987,130; Mar. 21; Sp. p. 2858; Gaz. vol. 164; p. 526.
Boats, Means for indicating and raising sunken. J. F. Shea. No. 993,205; May 23; Sp. p. 5090; Gaz. vol. 166; p. 918.
Bob-sled runner. J. H. Anderson. No. 997,226; July 4; Sp. p. 1322; Gaz. vol. 168; p. 216.
Bobbin. S. W. Wardwell. No. 989,886; Apr. 18; Sp. p. 3410; Gaz. vol. 165; p. 595.
Bobbin and spindle connector. J. Roney and J. C. Rae. No. 999,059; July 25; Sp. p. 5400; Gaz. vol. 168; p. 961.
Bobbin and spindle connector. J. Roney and J. C. Rae. No. 1,007,239; Oct. 31; Sp. p. 5930; Gaz. vol. 171; p. 1082.
Bobbin-carrier. G. Neufeld. No. 998,031; July 18; Sp. p. 3102; Gaz. vol. 168; p. 565.
Bobbin-carrier. R. K. Hohmann. No. 1,009,749; Nov. 28; Sp. p. 4694; Gaz. vol. 172; p. 851.
Bobbin feeding and counting apparatus. J. H. Wall. No. 1,010,332; Nov. 28; Sp. p. 5881; Gaz. vol. 172; p. 1047.
Bobbin-holder. T. J. Murdock. No. 998,857; July 25; Sp. p. 4943; Gaz. vol. 168; p. 889.

Alphabetical list of inventions—Continued.

Bobbin-holder. B. Bartmann. No. 1,003,026; Sept. 12; Sp. p. 1869; Gaz. vol. 170; p. 323.
Bobbin-making machine, Automatic. A. D. Cole. No. 998,565; July 18; Sp. p. 4258; Gaz. vol. 168; p. 753.
Bobbins, Machine for automatic insertion and threading of. J. Lüber. No. 987,472; Mar. 21; Sp. p. 3619; Gaz. vol. 164; p. 645.
Boiler: *See* Fire and water tube boiler; Glue-boiler; Locomotive-boiler; Sectional boiler; Smoke-tube boiler; Steam-boiler; Tubular boiler; Vertical boiler; Wash-boiler; Water-boiler; Water-tube boiler.
Boiler. G. Peterson. No. 985,281; Feb. 28; Sp. p. 4387; Gaz. vol. 163; p. 791.
Boiler. S. M. Walker. No. 993,480; May 30; Sp. p. 5689; Gaz. vol. 166; p. 1041.
Boiler. T. T. Parker. No. 994,655; June 6; Sp. p. 1165; Gaz. vol. 167; p. 191.
Boiler. T. T. Parker. No. 994,656; June 6; Sp. p. 1170; Gaz. vol. 167; p. 191.
Boiler. V. MacKay. No. 995,544; June 20; Sp. p. 3150; Gaz. vol. 167; p. 561.
Boiler. W. A. Brewster. No. 1,005,593; Oct. 10; Sp. p. 2264; Gaz. vol. 171; p. 389.
Boiler. J. G. Briegel. No. 1,007,329; Oct. 31; Sp. p. 6111; Gaz. vol. 171; p. 1114.
Boiler. F. P. Palen and W. Burlingham. No. 1,010,306; Nov. 28; Sp. p. 5829; Gaz. vol. 172; p. 1038.
Boiler accessory. W. Rohrbacher. No. 1,010,959; Dec. 5; Sp. p. 1234; Gaz. vol. 173; p. 195.
Boiler and superheater. G. W. Wade. No. 996,302; June 27; Sp. p. 4860; Gaz. vol. 167; p. 857.
Boiler and tube cleaner. R. W. Hamann. No. 995,534; June 20; Sp. p. 3134; Gaz. vol. 167; p. 557.
Boiler-caps, Apparatus for cutting washers from. G. W. Moser. No. 1,011,991; Dec. 19; Sp. p. 3584; Gaz. vol. 173; p. 626.
Boiler-check. J. M. Reiter and H. L. Dout. No. 987,491; Mar. 21; Sp. p. 3657; Gaz. vol. 164; p. 652.
Boiler check or check-valve. E. Phillians. No. 999,861; Aug. 8; Sp. p. 1328; Gaz. vol. 169; p. 256.
Boiler-circulator. C. Stewart. No. 993,566; May 30; Sp. p. 5876; Gaz. vol. 166; p. 1071.
Boiler-cleaner. D. N. Baxter. No. 1,002,361; Sept. 5; Sp. p. 430; Gaz. vol. 170; p. 60.
Boiler-cleaner and water-distributer, Automatic. D. Dwyer, E. S. Garrett, and S. J. O'Donnell. No. 994,727; June 13; Sp. p. 1368; Gaz. vol. 167; p. 256.
Boiler-cleaning device. L. Smith and G. D. Mullihan. No. 981,701; Jan. 17; Sp. p. 3414; Gaz. vol. 162; p. 577.
Boiler-cleaning device. V. MacKay. No. 1,004,052; Sept. 26; Sp. p. 4117; Gaz. vol. 170; p. 740.
Boiler conduits, Drainage and sediment-collecting section for house-. D. C. Luce. No. 1,013,031; Dec. 26; Sp. p. 5874; Gaz. vol. 173; p. 1027.
Boiler construction and means for making the same. C. A. Brown. No. 1,008,628; Nov. 14; Sp. p. 2266; Gaz. vol. 172; p. 385.
Boiler-disincrustating compound. R. L. de Guevara. No. 991,975; May 9; Sp. p. 2436; Gaz. vol. 166; p. 433.
Boiler-feed and water-level alarm, Automatic. J. J. Burke. No. 1,002,219; Sept. 5; Sp. p. 54; Gaz. vol. 170; p. 6.
Boiler-fire-box construction. C. L. Huston. No. 1,012,358; Dec. 19; Sp. p. 4395; Gaz. vol. 173; p. 753.
Boiler fire-box, Locomotive-. H. J. Gebhardt. No. 984,555; Feb. 21; Sp. p. 2840; Gaz. vol. 163; p. 506.
Boiler fire-box, Locomotive-. J. M. McClellon. (Reissue.) No. 13,210; Feb. 21; Sp. p. 3968; Gaz. vol. 163; p. 701.
Boiler fire-boxes, Refractory arch for locomotive-. C. B. Moore. No. 996,026; June 20; Sp. p. 4192; Gaz. vol. 167; p. 729.
Boiler-flue. J. W. Johnson. No. 1,012,258; Dec. 19; Sp. p. 4186; Gaz. vol. 173; p. 718.
Boiler-flue cleaner. W. Eichelberger and D. E. Hibner. No. 987,450; Mar. 21; Sp. p. 3580; Gaz. vol. 164; p. 637.
Boiler-flue cleaner. S. H. Limbert. No. 993,847; May 30; Sp. p. 6489; Gaz. vol. 166; p. 1169.
Boiler-flue cleaner. M. J. Braun. No. 996,609; July 4; Sp. p. 19; Gaz. vol. 168; p. 6.
Boiler-flue cleaner. H. Stratton. No. 1,000,453; Aug. 15; Sp. p. 2646; Gaz. vol. 169; p. 491.
Boiler-flue cleaner. E. E. Darnold. No. 1,005,167; Oct. 10; Sp. p. 1270; Gaz. vol. 171; p. 237.
Boiler-flue cleaner. H. L. Erlewine. No. 1,012,533; Dec. 19; Sp. p. 4726; Gaz. vol. 173; p. 811.
Boiler-flue-cleaner system. D. E. Hibner. No. 984,919; Feb. 21; Sp. p. 3585; Gaz. vol. 163; p. 633.
Boiler-flue-repairing device. H. J. Tibbens. No. 1,004,310; Sept. 26; Sp. p. 4679; Gaz. vol. 170; p. 828.
Boiler-flues, Protector for the heads of. R. S. Kitchen. No. 1,000,017; Aug. 8; Sp. p. 1653; Gaz. vol. 169; p. 310.
Boiler fuel-controlling device, Steam-. S. Elliott. No. 993,666; May 30; Sp. p. 6106; Gaz. vol. 166; p. 1106.
Boiler-furnace. G. de Grahl. No. 980,772; Jan. 3; Sp. p. 1271; Gaz. vol. 162; p. 204.
Boiler-furnace. J. Fournia. No. 992,122; May 9; Sp. p. 2718; Gaz. vol. 166; p. 481.
Boiler-furnace. H. H. Wilson. No. 997,529; July 11; Sp. p. 1929; Gaz. vol. 168; p. 346.
Boiler-furnace. C. G. Henry. No. 1,002,688; Sept. 5; Sp. p. 1123; Gaz. vol. 170; p. 169.
Boiler-furnace. M. W. Sewall. No. 1,007,805; Nov. 7; Sp. p. 353; Gaz. vol. 172; p. 56.
Boiler furnace, Locomotive-. C. B. Moore. No. 990,375; Apr. 25; Sp. p. 4492; Gaz. vol. 165; p. 794.
Boiler-furnace, Smokeless. J. Cook. No. 996,063; June 27; Sp. p. 4283; Gaz. vol. 167; p. 777.
Boiler furnace, Steam-. G. S. Gallagher. No. 984,205; Feb. 14; Sp. p. 2081; Gaz. vol. 163; p. 353.
Boiler furnace, Steam-. T. R. Butman. No. 989,333; Apr. 11; Sp. p. 2209; Gaz. vol. 165; p. 375.
Boiler furnace, Steam-. J. Pomeroy. No. 991,885; May 9; Sp. p. 2258; Gaz. vol. 166; p. 402.
Boiler furnace, Steam-. H. A. Poppenhusen. No. 996,939; July 4; Sp. p. 709; Gaz. vol. 168; p. 116.
Boiler furnace, Steam-. G. H. Barrus. No. 1,001,336; Aug. 22; Sp. p. 4600; Gaz. vol. 169; p. 832.
Boiler furnace, Steam-. E. E. Carr. No. 1,007,528; Oct. 31; Sp. p. 6543; Gaz. vol. 171; p. 1183.
Boiler furnace, Water-tube-. A. Smallwood. No. 981,699; Jan. 17; Sp. p. 3411; Gaz. vol. 162; p. 577.
Boiler-gage attachment. C. A. Johnson. No. 984,676; Feb. 21; Sp. p. 3091; Gaz. vol. 163; p. 547.
Boiler gage, Steam-. J. A. Moore. No. 1,012,411; Dec. 19; Sp. p. 4497; Gaz. vol. 173; p. 770.
Boiler-heads, Means for stiffening. A. Inokuty. No. 1,000,266; Aug. 8; Sp. p. 2223; Gaz. vol. 169; p. 395.
Boiler-injector check-turret. F. M. A'Hearn and P. S. Winter. No. 1,006,709; Oct. 24; Sp. p. 4725; Gaz. vol. 171; p. 842.
Boiler level-indicator. F. Pearson. No. 986,210; Mar. 7; Sp. p. 942; Gaz. vol. 164; p. 153.
Boiler-mud, Apparatus for blowing off. A. Fonó. No. 1,004,403; Sept. 26; Sp. p. 4863; Gaz. vol. 170; p. 859.
Boiler nozzles, Making steam-. C. F. Bennett. No. 982,463; Jan. 24; Sp. p. 5067; Gaz. vol. 162; p. 874.
Boiler-pressure regulator. J. J. Lawler. No. 1,010,438; Dec. 5; Sp. p. 69; Gaz. vol. 173; p. 14.
Boiler safety apparatus, Steam-. H. Neville. No. 1,004,896; Oct. 3; Sp. p. 769; Gaz. vol. 171; p. 123.
Boiler safety device, Steam-. J. P. Jurgensen. No. 983,144; Jan. 31; Sp. p. 6495; Gaz. vol. 162; p. 1129.
Boiler safety device, Steam-. J. J. Barry and F. L. Street. No. 1,007,175; Oct. 31; Sp. p. 5790; Gaz. vol. 171; p. 1059.
Boiler-separator. J. E. Harrison. No. 988,264; Mar. 28; Sp. p. 5317; Gaz. vol. 164; p. 941.
Boiler, superheater, and feed-water heater, Combined. H. W. Jacobs. No. 984,430; Feb. 14; Sp. p. 2530; Gaz. vol. 163; p. 428.
Boiler superheater, Steam-. H. H. Vaughan. No. 994,045; May 30; Sp. p. 6875; Gaz. vol. 166; p. 1235.
Boiler superheater, Steam-. W. Dalton. No. 997,440; July 11; Sp. p. 1749; Gaz. vol. 168; p. 317.
Boiler supply system. H. Lemp. No. 1,011,213; Dec. 12; Sp. p. 1826; Gaz. vol. 173; p. 317.
Boiler-tube-beading tool. E. Wiet. No. 988,054; Mar. 28; Sp. p. 4921; Gaz. vol. 164; p. 873.
Boiler-tube cleaner. J. Wiechmann. No. 982,652; Jan. 24; Sp. p. 5427; Gaz. vol. 162; p. 937.
Boiler-tube cleaner. T. S. Waller and J. V. Carr. No. 984,622; Feb. 21; Sp. p. 2985; Gaz. vol. 163; p. 530.
Boiler-tube cutter. J. L. Browder. No. 1,007,330; Oct. 31; Sp. p. 6113; Gaz. vol. 171; p. 1114.
Boiler-tube expander. O. H. Wiedeke. No. 1,007,017; Oct. 24; Sp. p. 5410; Gaz. vol. 171; p. 948.
Boiler-tube spreader. D. G. Shughart. No. 1,004,921; Oct. 3; Sp. p. 814; Gaz. vol. 171; p. 131.
Boiler washing and filling system. F. W. Miller. No. 997,504; July 11; Sp. p. 1872; Gaz. vol. 168; p. 337.
Boiler washing and filling system, Locomotive-. R. L. Gifford and I. Cowles. No. 990,482; Apr. 25; Sp. p. 4738; Gaz. vol. 165; p. 833.
Boiler washing-machine. M. A. Morton. No. 1,001,426; Aug. 22; Sp. p. 4789; Gaz. vol. 169; p. 863.
Boiler washout and refilling system. F. W. Miller. No. 1,001,293; Aug. 22; Sp. p. 4496; Gaz. vol. 169; p. 816.
Boiler water-column. L. J. Bordo. No. 997,743; July 11; Sp. p. 2423; Gaz. vol. 168; p. 422.
Boiler water-level alarm. L. Beebee. No. 1,006,898; Oct. 24; Sp. p. 5179; Gaz. vol. 171; p. 910.
Boiler water-level recording and indicating device, Steam-. J. E. Vannatter. No. 996,170; June 27; Sp. p. 4507; Gaz. vol. 167; p. 814.
Boiler water-purifier, Fire-tube-. E. Pielock. No. 1,010,133; Dec. 5; Sp. p. 1614; Gaz. vol. 173; p. 255.
Boiler water-purifying apparatus, Steam-. P. Müller. No. 988,014; Mar. 28; Sp. p. 4831; Gaz. vol. 164; p. 860.
Boiler water-purifying system, Steam-. W. P. Wiemann. No. 982,107; Jan. 17; Sp. p. 4309; Gaz. vol. 162; p. 719.
Boilers and the like, Manufacturing headers for water-tube. J. Fielding. No. 993,974; May 30; Sp. p. 6724; Gaz. vol. 166; p. 1210.
Boilers, Antisiphonic device for. G. H. Ayer. No. 989,754; Apr. 18; Sp. p. 3128; Gaz. vol. 165; p. 550.
Boilers, Combustion-chamber for. H. W. Jacobs. No. 984,429; Feb. 14; Sp. p. 2528; Gaz. vol. 163; p. 428.
Boilers, Construction of. W. H. Ricker. No. 984,300; Feb. 14; Sp. p. 2280; Gaz. vol. 163; p. 386.
Boilers, Fuel and water supply system for. H. Lemp. No. 994,939; June 13; Sp. p. 1868; Gaz. vol. 167; p. 328.

Alphabetical list of inventions—Continued.

Boilers, Manufacture of steam-. D. R. MacBain. No. 1,002,413; Sept. 5; Sp. p. 533; Gaz. vol. 170; p. 75.
Boilers, Manufacture of steam-. D. R. MacBain. No. 1,002,414; Sept. 5; Sp. p. 536; Gaz. vol. 170; p. 76.
Boilers, Means for preventing rust in. A. S. Hickey. No. 999,108; July 25; Sp. p. 5485; Gaz. vol. 168; p. 976.
Boilers, Steam-superheating apparatus for locomotive-. J. Primrose. No. 1,001,075; Aug. 22; Sp. p. 4069; Gaz. vol. 169; p. 746.
Boilers, System of and apparatus for washing and refilling locomotive-. E. B. White. No. 992,834; May 23; Sp. p. 4287; Gaz. vol. 166; p. 790.
Boilers, System of fuel and water supply for. H. Lemp. No. 994,940; June 13; Sp. p. 1870; Gaz. vol. 167; p. 329.
Boilers, System of washing and filling locomotive-. W. White. No. 1,005,385; Oct. 10; Sp. p. 1773; Gaz. vol. 171; p. 316.
Boilers with liquid fuels, Supplying device for. L. Doillet and P. R. Faure. No. 1,006,920; Oct. 24; Sp. p. 5217; Gaz. vol. 171; p. 917.
Boiling purposes, Alarm-indicator for. G. Schumacher. No. 996,804; July 4; Sp. p. 405; Gaz. vol. 168; p. 69.
Boll-huller and cotton-cleaner. A. T. Postelwait. No. 1,006,594; Oct. 24; Sp. p. 4512; Gaz. vol. 171; p. 804.
Bolster. C. A. Lindström. No. 985,913; Mar. 7; Sp. p. 334; Gaz. vol. 164; p. 53.
Bolster-block and chain-lock, Safety. C. A. McCarthy. No. 1,002,292; Sept. 5; Sp. p. 243; Gaz. vol. 170; p. 32.
Bolster, Body-. R. E. Frame and J. M. Rohlfing. No. 1,001,832; Aug. 29; Sp. p. 5627; Gaz. vol. 169; p. 1031.
Bolster, Double body-. S. S. Knight. No. 997,394; July 11; Sp. p. 1665; Gaz. vol. 168; p. 302.
Bolster, Foldable bed-. F. Hengel and J. Addis. No. 997,813; July 11; Sp. p. 2605; Gaz. vol. 168; p. 447.
Bolster, Truck-. R. E. Frame and J. M. Rohlfing. No. 1,001,833; Aug. 29; Sp. p. 5630; Gaz. vol. 169; p. 1031.
Bolt: *See* Armor-plate bolt; Door-bolt; Expansion-bolt; Key-bolt; Lock-bolt; Locking-bolt; Quickly-adjustable bolt; Railway-bolt; Screw-bolt; Slide-bolt; Stay-bolt; Toggle-bolt.
Bolt. W. P. Murphy. No. 1,004,183; Sept. 26; Sp. p. 4442; Gaz. vol. 170; p. 786.
Bolt. C. and G. Mathisen. No. 1,005,446; Oct. 10; Sp. p. 1911; Gaz. vol. 171; p. 338.
Bolt-anchor. J. Kennedy. No. 981,863; Jan. 17; Sp. p. 3756; Gaz. vol. 162; p. 635.
Bolt-anchor. D. H. Haywood. No. 983,442; Feb. 7; Sp. p. 388; Gaz. vol. 163; p. 64.
Bolt-anchor. J. Kennedy. No. 983,451; Feb. 7; Sp. p. 418; Gaz. vol. 163; p. 67.
Bolt-anchor. C. J. Clements. No. 983,479; Feb. 7; Sp. p. 480; Gaz. vol. 163; p. 76.
Bolt-anchor. D. H. Haywood. No. 987,229; Mar. 21; Sp. p. 3103; Gaz. vol. 164; p. 563.
Bolt-anchor. J. E. Ogden. No. 989,400; Apr. 1[illegible]; Sp. p. 2349; Gaz. vol. 165; p. 397.
Bolt and lock nut. D. J. Diehl. No. 1,001,369; Aug. 22; Sp. p. 4679; Gaz. vol. 169; p. 845.
Bolt and nut. V. McIntyre and F. Donohue. No. 985,269; Feb. 28; Sp. p. 4371; Gaz. vol. 163; p. 788.
Bolt and nut fastening. H. G. Gillmor. No. 993,676; May 30; Sp. p. 6135; Gaz. vol. 166; p. 1110.
Bolt and nut lock. O. E. Dietrich. No. 987,705; Mar. 28; Sp. p. 4117; Gaz. vol. 164; p. 753.
Book and slide-rule, Combined record-. J. A. Ettler. No. 1,009,493; Nov. 21; Sp. p. 4184; Gaz. vol. 172; p. 721.
Bolt-blanks, Turning and threading. C. K. Lassiter. No. 1,007,578; Oct. 31; Sp. p. 6658; Gaz. vol. 171; p. 1200.
Bolt-fastener. W. S. Dorman. No. 994,726; June 13; Sp. p. 1367; Gaz. vol. 167; p. 256.
Bolt-holder. C. T. Tarver. No. 985,557; Feb. 28; Sp. p. 5007; Gaz. vol. 163; p. 886.
Bolt keeper, Door-. A. W. Ekberg. No. 997,257; July 4; Sp. p. 1383; Gaz. vol. 168; p. 227.
Bolt-lock. W. A. Scott. No. 986,510; Mar. 14; Sp. p. 1602; Gaz. vol. 164; p. 285.
Bolt-lock. M. Jacobs. No. 1,003,748; Sept. 19; Sp. p. 3413; Gaz. vol. 170; p. 608.
Bolt-making mechanism. F. F. Deeds. No. 986,697; Mar. 14; Sp. p. 1992; Gaz. vol. 164; p. 350.
Bolt mechanism, Door-. S. N. Friedman. No. 993,235; May 23; Sp. p. 5146; Gaz. vol. 166; p. 926.
Bolt-rolling machine, Screw-. H. Despaigne. No. 999,634; Aug. 1; Sp. p. 859; Gaz. vol. 169; p. 150.
Bolt threading and turning device. C. K. Lassiter. No. 1,006,958; Oct. 24; Sp. p. 5283; Gaz. vol. 171; p. 929.
Bolts in wood, &c., Process of and means for securing threaded. J. V. E. Thiollier. No. 1,011,392; Dec. 12; Sp. p. 2234; Gaz. vol. 173; p. 381.
Bolts, rivets, &c., Manufacture of. O. Briede. No. 987,282; Mar. 21; Sp. p. 3222; Gaz. vol. 164; p. 581.
Bolts, screws, &c., Mechanism for making. F. F. Deeds. No. 996,840; July 4; Sp. p. 487; Gaz. vol. 168; p. 81.
Bolting-machine. G. T. Smith. No. 984,041; Feb. 14; Sp. p. 1723; Gaz. vol. 163; p. 297.
Bonbon-stamping presses, Feeding device for. C. Rost. No. 1,001,452; Aug. 22; Sp. p. 4833; Gaz. vol. 169; p. 871.
Bond. H. W. Allen. No. 997,356; July 11; Sp. p. 1602; Gaz. vol. 168; p. 290.
Bone-fork. A. P. Schneider. No. 993,720; May 30; Sp. p. 6224; Gaz. vol. 166; p. 1125.
Book. P. S. H. Newell. No. 1,011,833; Dec. 12; Sp. p. 3220; Gaz. vol. 173; p. 537.
Book. J. M. Pope. No. 1,012,429; Dec. 19; Sp. p. 4527; Gaz. vol. 173; p. 775.
Book, Account-. G. B. Edgar, Jr. No. 981,543; Jan. 10; Sp. p. 3088; Gaz. vol. 162; p. 503.
Book, Account-. S. Fred. No. 1,007,085; Oct. 31; Sp. p. 5575; Gaz. vol. 171; p. 1025.
Book and record binder, Bill-. O. C. Manteufel. No. 982,842; Jan. 31; Sp. p. 5844; Gaz. vol. 162; p. 1029.
Book and the like, Check-. J. B. Speed. (Reissue.) No. 13,342; Dec. 19; Sp. p. 4826; Gaz. vol. 173; p. 828.
Book, Blank. J. W. Gearhart. No. 987,619; Mar. 21; Sp. p. 3894; Gaz. vol. 164; p. 694.
Book, Cash-sales. E. K. Bottle. No. 992,750; May 23; Sp. p. 4111; Gaz. vol. 166; p. 761.
Book, Check-. A. M. Broudy. No. 1,003,326; Sept. 12; Sp. p. 2503; Gaz. vol. 170; p. 431.
Book construction, Loose-leaf-. E. W. Hill. No. 1,008,597; Nov. 14; Sp. p. 2203; Gaz. vol. 172; p. 375.
Book, Coupon-. E. H. Coates. No. 982,127; Jan. 17; Sp. p. 4344; Gaz. vol. 162; p. 725.
Book-cover. G. H. Beckett. No. 991,934; May 9; Sp. p. 2362; Gaz. vol. 166; p. 419.
Book cover and holder, Note-. R. P. Shapro. No. 987,019; Mar. 14; Sp. p. 2647; Gaz. vol. 164; p. 457.
Book-cover protector. G. H. Hedges. No. 990,262; Apr. 25; Sp. p. 4233; Gaz. vol. 165; p. 755.
Book-cover rubbing and cleaning machine. A. L. Drexler and W. H. Dittmar. No. 999,488; Aug. 1; Sp. p. 578; Gaz. vol. 169; p. 101.
Book, File-index. D. F. Maher. No. 983,072; Jan. 31; Sp. p. 6369; Gaz. vol. 162; p. 1107.
Book-holder. S. W. Sparger. No. 985,851; Mar. 7; Sp. p. 195; Gaz. vol. 164; p. 31.
Book-holder. S. Kobzy. No. 992,509; May 16; Sp. p. 3608; Gaz. vol. 166; p. 648.
Book-holder. E. F. Crane. No. 993,761; May 30; Sp. p. 6315; Gaz. vol. 166; p. 1139.
Book-holder. E. G. Dann. No. 995,442; June 20; Sp. p. 2937; Gaz. vol. 167; p. 524.
Book-holder. M. J. Stark, Jr. No. 1,001,900; Aug. 29; Sp. p. 5787; Gaz. vol. 169; p. 1054.
Book-holder. E. W. Farris. No. 1,007,345; Oct. 31; Sp. p. 6141; Gaz. vol. 171; p. 1120.
Book holder, Manifolding-account-. W. M. Parker. No. 1,010,683; Dec. 5; Sp. p. 620; Gaz. vol. 173; p. 99.
Book-leaf holder. J. W. Jaggars. No. 994,404; June 6; Sp. p. 632; Gaz. vol. 167; p. 108.
Book-leaves, Method of and machine for creasing. W. Sparks. No. 996,808; July 4; Sp. p. 421; Gaz. vol. 168; p. 71.
Book-locking device. G. Larsen. No. 989,909; Apr. 18; Sp. p. 3468; Gaz. vol. 165; p. 603.
Book, Loose-leaf. W. P. Pitt. No. 985,282; Feb. 28; Sp. p. 4389; Gaz. vol. 163; p. 792.
Book, Loose-leaf. C. Forgerson. No. 997,985; July 18; Sp. p. 2992; Gaz. vol. 168; p. 547.
Book, Loose-leaf. C. Forgerson. No. 1,001,131; Aug. 22; Sp. p. 4184; Gaz. vol. 169; p. 765.
Book, Loose-leaf. S. D. Page and J. C. Hedges. No. 1,009,685; Nov. 21; Sp. p. 4540; Gaz. vol. 172; p. 782.
Book, Loose-leaf. F. E. Housh. No. 1,011,795; Dec. 12; Sp. p. 3140; Gaz. vol. 173; p. 524.
Book making and printing machine, Sales-. A. C. North. No. 1,010,677; Dec. 5; Sp. p. 606; Gaz. vol. 173; p. 97.
Book, Manifold sales or order. O. S. Gauch. No. 1,003,445; Sept. 19; Sp. p. 2740; Gaz. vol. 170; p. 502.
Book, Manifo ding account-. W. F. Bockhoff. No. 1,010,847; Dec. 5; Sp. p. 1000; Gaz. vol. 173; p. 156.
Book, Manifolding sales-. E. K. Bottle. No. 992,751; May 23; Sp. p. 4112; Gaz. vol. 166; p. 761.
Book, Manifolding sales-. H. Loebl. No. 1,002,288; Sept. 5; Sp. p. 233; Gaz. vol. 170; p. 31.
Book, Manifolding sales-. E. K. Bottle. No. 1,007,844; Nov. 7; Sp. p. 462; Gaz. vol. 172; p. 69.
Book-mark. J. W. Lopes. No. 1,008,481; Nov. 14; Sp. p. 1943; Gaz. vol. 172; p. 332.
Book-mark and paper-clip, Combined. J. B. Shiver. No. 992,916; May 23; Sp. p. 4475; Gaz. vol. 166; p. 820.
Book, Note-. W. J. Lundy. No. 996,496; June 27; Sp. p. 5275; Gaz. vol. 167; p. 925.
Book, Note-. G. Stavens. No. 1,011,651; Dec. 12; Sp. p. 2853; Gaz. vol. 173; p. 476.
Book, Perpetual-inventory. C. K. Reifsnider and F. E. Goodwin. No. 998,037; July 18; Sp. p. 3116; Gaz. vol. 168; p. 567.
Book, Physician's account-. L. Metzgar. No. 1,006,115; Oct. 17; Sp. p. 3382; Gaz. vol. 171; p. 603.
Book, Premium-. H. E. Davis. No. 988,552; Apr. 4; Sp. p. 553; Gaz. vol. 165; p. 89.
Book, Record-. T. M. Eynon. No. 992,413; May 16; Sp. p. 3419; Gaz. vol. 166; p. 615.
Book-rest, Adjustable. N. Streit. No. 994,797; June 13; Sp. p. 1524; Gaz. vol. 167; p. 280.
Book rest or table. J. L. Young. No. 993,493; May 30; Sp. p. 5719; Gaz. vol. 166; p. 1045.

Alphabetical list of inventions—Continued.

Book-rest, photo-frame, and the like for tables and otherwise, Adjustable. F. Harris. No. 1,002,147; Aug. 29; Sp. p. 6271; Gaz. vol. 169; p. 1134.
Book, Sample-. C. Green. No. 1,009,507; Nov. 21; Sp. p. 4214; Gaz. vol. 172; p. 725.
Book-signatures, Stitching for. C. S. Altoonian. No. 1,006,451; Oct. 24; Sp. p. 4155; Gaz. vol. 171; p. 751.
Book-stack. R. O. Wheeler. No. 980,372; Jan. 3; Sp. p. 388; Gaz. vol. 162; p. 69.
Book-stack. W. T. Callaghan. No. 989,566; Apr. 18; Sp. p. 2729; Gaz. vol. 165; p. 487.
Book-stand. S. H. Nuckolls. No. 989,633; Apr. 18; Sp. p. 2881; Gaz. vol. 165; p. 509.
Book-stand. P. A. Hazard. No. 991,616; May 9; Sp. p. 1703; Gaz. vol. 166; p. 313.
Book-stand and music-rack, Adjustable. Z. H. Blouch. No. 982,567; Jan. 24; Sp. p. 5263; Gaz. vol. 162; p. 908.
Book, Statement and balance. L. C. Van Voorhis. No. 992,618; May 16; Sp. p. 3848; Gaz. vol. 166; p. 686.
Book, Stub-. J. B. Speed. No. 997,471; July 11; Sp. p. 1807; Gaz. vol. 168; p. 327.
Book-supporting device. H. Koepp. No. 980,796; Jan. 3; Sp. p. 1318; Gaz. vol. 162; p. 212.
Book-trimming machine. T. C. Welch. No. 1,003,679; Sept. 19; Sp. p. 3248; Gaz. vol. 170; p. 585.
Books, Binding. H. P. Brown. No. 1,001,245; Aug. 22; Sp. p. 4399; Gaz. vol. 169; p. 800.
Books, Binding for. C. R. Duryea and F. Reuter. No. 998,283; July 18; Sp. p. 3679; Gaz. vol. 168; p. 656.
Books, Casing-in machine for. W. L. Norton. No. 988,651; Apr. 4; Sp. p. 777; Gaz. vol. 165; p. 124.
Books, &c., Convertible support for. I. M. Guthrie. No. 1,009,508; Nov. 21; Sp. p. 4216; Gaz. vol. 172; p. 725.
Books, Disinfecting. T. H. Hood. No. 1,005,036; Oct. 3; Sp. p. 1023; Gaz. vol. 171; p. 170.
Books, files, and temporary binders, Cover for loose-leaf. J. Walker, Jr. No. 1,001,483; Aug. 22; Sp. p. 4878; Gaz. vol. 169; p. 880.
Books, Hinge mechanism for the covers of loose-leaf. F. L. Impey. No. 1,003,265; Sept. 12; Sp. p. 2381; Gaz. vol. 170; p. 409.
Books, &c., Holder for sales-. W. W. O'Hara and A. C. Gaynor. No. 985,692; Feb. 28; Sp. p. 5293; Gaz. vol. 163; p. 932.
Bookbinder. S. W. Waterhouse. No. 985,237; Feb. 28; Sp. p. 4297; Gaz. vol. 163; p. 776.
Bookbinder's end-sheet-tipping machine. H. C. Eldredge. No. 1,006,735; Oct. 24; Sp. p. 4780; Gaz. vol. 171; p. 851.
Bookbinding. W. S. Proudfit, Jr. No. 996,360; June 27; Sp. p. 4985; Gaz. vol. 167; p. 878.
Bookbinding. P. J. Renninger. No. 998,303; July 18; Sp. p. 3726; Gaz. vol. 168; p. 663.
Bookbinding. S. Williams. No. 999,285; Aug. 1; Sp. p. 175; Gaz. vol. 169; p. 33.
Bookbinding, Backing for. G. Hager and P. Künzi. No. 981,554; Jan. 10; Sp. p. 3106; Gaz. vol. 162; p. 507.
Bookbinding-machine. J. Murray No. 982,438; Jan. 24; Sp. p. 4988; Gaz. vol. 162; p. 863.
Bookcase, Combined. G. H. and S. Griswold. No. 984,479; Feb. 14; Sp. p. 2630; Gaz. vol. 163; p. 444.
Bookcases, Leg-base for sectional. L. Senge. No. 1,008,082; Nov. 7; Sp. p. 933; Gaz. vol. 172; p. 150.
Boom. J. R. McGiffert. No. 988,124; Mar. 28; Sp. p. 5050; Gaz. vol. 164; p. 896.
Boot and shoe. H. M. Hansen. No. 988,774; Apr. 4; Sp. p. 1041; Gaz. vol. 165; p. 166.
Boot and shoe. W. L. Dash. No. 989,572; Apr. 18; Sp. p. 2740; Gaz. vol. 165; p. 489.
Boot and shoe. C. D. Scott. No. 1,010,187; Nov. 28; Sp. p. 5581; Gaz. vol. 172; p. 999.
Boot and shoe arch-supporter. J. Stern. No. 1,000,450; Aug. 15; Sp. p. 2642; Gaz. vol. 169; p. 490.
Boot and shoe form or stretcher. M. B. Reach. No. 980,676; Jan. 3; Sp. p. 1091; Gaz. vol. 162; p. 174.
Boot and shoe making machine. A. Bates. No. 1,009,036; Nov. 21; Sp. p. 3146; Gaz. vol. 172; p. 558.
Boot and shoe upper. J. B-ckley. No. 987,214; Mar. 21; Sp. p. 3078; Gaz. vol. 164; p. 558.
Boot and shoe uppers, Forming. K. Engel. No. 1,001,745; Aug. 29; Sp. p. 5438; Gaz. vol. 169; p. 1002.
Boot and shoe uppers, Machine for forming. K. Engel. No. 998,682; July 25; Sp. p. 4532; Gaz. vol. 168; p. 827.
Boot and shoe, Ventilated. G. Valiant. No. 1,005,674; Oct. 10; Sp. p. 2438; Gaz. vol. 171; p. 418.
Boot and shoe welt. W B. White. No. 997,350; July 11; Sp. p. 1592; Gaz. vol. 168; p. 288.
Boot-holder. A. Lundgren. No. 999,382; Aug. 1; Sp. p. 379; Gaz. vol. 169; p. 67.
Boot jack, Rubber. J. H. McKechnie. No. 1,011,069; Dec. 5; Sp. p. 1457; Gaz. vol. 173; p. 231.
Boot or shoe. F. L. Cheever. No. 983,604; Feb. 7; Sp. p. 756; Gaz. vol. 163; p. 119.
Boot or shoe. J. J. Mulconroy and E. S. Morris. No. 992,515; May 16; Sp. p. 3625; Gaz. vol. 166; p. 651.
Boot or shoe form G. V. Twiss. No. 985,232; Feb. 28; Sp. p. 4282; Gaz. vol. 163; p. 775.
Boot or shoe welt. G. F. Dunn. No. 983,544; Feb. 7; Sp. p. 625; Gaz. vol. 163; p. 98.
Boot or shoe welt. G. F. Dunn. No. 983,695; Feb. 7; Sp. p. 952; Gaz. vol. 163; p. 151.
Boot-tree for use in treeing-machines. A. H. M. Grume. No. 1,010,751; Dec. 5; Sp. p. 787; Gaz. vol. 173; p. 123.
Boot-treeing apparatus. A. H. M. Grune. No. 1,009,965; Nov. 28; Sp. p. 5126; Gaz. vol. 172; p. 924.
Boots and shoes, Ladder-climbing attachment for. C. I. Schenck. No. 997,511; July 11; Sp. p. 1887; Gaz. vol. 168; p. 340.
Boots and shoes, Machine for setting heel and sole protectors for. H. W. Winter. No. 1,001,110; Aug. 22; Sp. p. 4142; Gaz. vol. 169; p. 758.
Boots and shoes, Machine for the manufacture of. A. W. Matthews. No. 999,050: July 25; Sp. p. 5387; Gaz. vol. 168; p. 958.
Boots and shoes, Machine for the manufacture of. R. F. McFeely. No. 999,327; Aug. 1; Sp. p. 255; Gaz. vol. 169; p. 47.
Boots and shoes, Machine for the manufacture of. A. L. Engberg. No. 1,007,079; Oct. 31; Sp. p. 5562; Gaz. vol. 171; p. 1023.
Boots and shoes, Machine for use in the manufacture of. W. J. Drey. No. 1,011,592; Dec. 12; Sp. p. 2715; Gaz. vol. 173; p. 455.
Boots and shoes, Making. T. H. Files. No. 990,248; Apr. 25; Sp. p. 4208; Gaz. vol. 165; p. 750.
Boots and shoes, Making. J. E. Jackson. No. 1,003,463; Sept 19; Sp. p. 2782; Gaz. vol. 170; p. 509.
Boots and shoes, Manufacture of. T. Lund. No. 1,009,761; Nov. 28; Sp. p. 4724; Gaz. vol. 172; p. 856.
Boots and shoes, Pneumatic tread for. E. Maddocks. No. 1,011,460; Dec. 12; Sp. p. 2378; Gaz. vol. 173; p. 406.
Boots and shoes, Pulling-over machine for. W. Shaw. No. 999,889; Aug. 8; Sp. p. 1400; Gaz. vol. 169; p. 266.
Boots and shoes, Tread for. W. B. Acker. No. 1,003,576; Sept. 19; Sp. p. 3042; Gaz. vol. 170; p. 548.
Boots or shoes, Ice-grip for. J. Kunz. No. 990,883; May 2; Sp. p. 121; Gaz. vol. 166; p. 23.
Boots or shoes, Machine for operating upon. J. J. Marsh and A. Bates. No. 995,022; June 13; Sp. p. 2038; Gaz. vol. 167; p. 356.
Borates containing active oxygen, Making. F. L. Schmidt. No. 1,006,798; Oct. 24; Sp. p. 4935; Gaz. vol. 171; p. 874.
Boring and routing machine. H. Borgmann. No. 981,743; Jan. 17; Sp. p. 3491; Gaz. vol. 162; p. 592.
Boring and turning machine. A F. Nathan. No. 986,493; Mar. 14; Sp. p. 1569; Gaz. vol. 164; p. 280.
Boring apparatus. C. Cantilli. No. 1,003,334; Sept. 12; Sp. p. 2516; Gaz. vol. 170; p. 433.
Boring-bit. W. Potter. No. 1,004,902; Oct. 3; Sp. p. 781; Gaz. vol. 171; p. 125.
Boring-drill. H. R. Hughes. No. 1,010,144; Nov 28; Sp. p. 5499; Gaz. vol. 172; p. 985.
Boring-drill, Roller. L. Bedilion. No. 1,012,315; Dec. 19; Sp. p. 4305; Gaz. vol. 173; p. 738.
Boring, drilling, and the like, Machine for. A. W. Foote. No. 1,005,634; Oct. 10; Sp. p. 2346; Gaz. vol. 171; p. 403.
Boring elliptical and circular holes, Tool for. W. Garner. No. 1,004,409; Sept. 26; Sp. p. 4879; Gaz. vol. 170; p. 861.
Boring-head. H. Casler. No. 981,062; Jan. 10; Sp. p. 2042; Gaz. vol. 162; p. 336.
Boring-machine. W. Beehler. No. 984,792; Feb. 21; Sp. p. 3349; Gaz. vol. 163; p. 591.
Boring-machine. W. H. Washburn. No. 1,011,098; Dec. 5; Sp. p. 1535; Gaz. vol. 173; p. 243.
Boring-machine alarm. W. Potter. No. 995,178; June 13; Sp. p. 2357; Gaz. vol. 167; p. 408.
Boring-machine drill-holder or chuck with self-centering device. P. G. Blomberg. No. 984,998; Feb. 21; Sp. p. 3726; Gaz. vol. 163; p. 658.
Boring-machine gage. A. J. Holth. No. 995,461; June 20; Sp. p. 2973; Gaz. vol. 167; p. 531.
Boring-machine, Multiple-bit. A. E. Crandell. No. 989,486; Apr. 11; Sp. p. 2517; Gaz. vol. 165; p. 426.
Boring-tool. R. E. Dette. No. 981,392; Jan. 10; Sp. p. 2775; Gaz. vol. 162; p. 452.
Boring-tool. C. A. Tunks. No. 994,430; June 6; Sp. p. 683; Gaz. vol. 167; p. 117.
Boring-tool. M. Thomas. No. 1,002,787; Sept. 5; Sp. p. 1341; Gaz. vol. 170; p. 203.
Boring-tool holder. H. E. Hull. No. 984,000; Feb. 14; Sp. p. 1641; Gaz. vol. 163; p. 283.
Borneol and borneol esters from pinene, Making. G. Austerweil. No. 986,038; Mar. 7; Sp. p. 606; Gaz. vol. 164; p. 98.
Bottle. H. G. Clabaugh. No. 980,601; Jan. 3; Sp. p. 919; Gaz. vol. 162; p. 148.
Bottle. T M. Daniels. No. 986,270; Mar. 7; Sp. p. 1074; Gaz. vol. 164; p. 172.
Bottle. A. T. MacCallan. No. 987,474; Mar. 21; Sp. p. 3626; Gaz. vol. 164; p. 645.
Bottle. F. A. Vergona. No. 999,067; July 25; Sp. p. 5412; Gaz. vol. 168; p. 963.
Bottle. W. E. C. Powell. No. 1,002,307; Sept. 5; Sp. p. 277; Gaz. vol. 170; p. 38.
Bottle and cooler, Combined dispensing-. L. R. Steel. No. 1,004,491; Sept. 26; Sp. p. 5056; Gaz. vol. 170; p. 890.
Bottle and jar cap. H. P. Young. No. 985,118; Feb. 21; Sp. p. 3963; Gaz. vol. 163; p. 700.
Bottle, Antirefillable. O. Papp. No. 994,601; June 6; Sp. p. 1034; Gaz. vol. 167; p. 172.

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Bottle attachment. C. L. Mount No. 1,007,887; Nov. 7; Sp. p. 547; Gaz. vol. 172; p. 83.
Bottle attachment, Non-refilling. C. H. Kattenberg. No. 1,002,585; Sept. 5; Sp. p. 901; Gaz. vol. 170; p. 134.
Bottle-blank-making machine. W. E. Savage. No. 1,011,647; Dec. 12; Sp. p. 2847; Gaz. vol. 173; p. 475.
Bottle-cap and remover, Combined. F. C. Wallace and C. F. Forsyth. No. 986,524; Mar. 14; Sp. p. 1628; Gaz. vol. 164; p. 290.
Bottle-cap-applying mechanism. J. D. Lord. No. 983,829; Feb. 7; Sp. p. 1235; Gaz. vol. 163; p. 196.
Bottle-cap feeder. B. E. J. Eils and L. Strebel. No. 1,009,658; Nov. 21; Sp. p. 4487; Gaz. vol. 172; p. 773.
Bottle cap, Milk-. C. W. Molfenter. No. 981,457; Jan. 10; Sp. p. 2929; Gaz. vol. 162; p. 474.
Bottle cap or closure, Milk and other. E. D. Schmitt. No. 995,377; June 13; Sp. p. 2779; Gaz. vol. 167; p. 473.
Bottle-cap remover. A. W. Stephens. No. 982,893; Jan. 31; Sp. p. 5966; Gaz. vol. 162; p. 1047.
Bottle-cap remover. C. F. Forsyth. No. 985,255; Feb. 28; Sp. p. 4329; Gaz. vol. 163; p. 782.
Bottle-cap remover. A. W. Stephens. No. 999,901; Aug. 8; Sp. p. 1422; Gaz. vol. 169; p. 270.
Bottle-cap remover. A. W. Stephens. No. 1,007,502; Oct. 31; Sp. p. 6486; Gaz. vol. 171; p. 1174.
Bottle-cap remover. R. W. Webster. No. 1,009,873; Nov. 28; Sp. p. 4944; Gaz. vol. 172; p. 893.
Bottle-caps, Apparatus for the manufacture of. T. B. Wilcox. No. 991,581; May 9; Sp. p. 1623; Gaz. vol. 166; p. 299.
Bottle-caps, Making. B. Adriance and A. Calleson. No. 1,002,354; Sept. 5; Sp. p. 407; Gaz. vol. 170; p. 57.
Bottle caps or capsules, Machine for making and applying. A. J. L. Lassen. No. 1,011,630; Dec. 12; Sp. p. 2810; Gaz. vol. 173; p. 468.
Bottle-capping machine. F. A. Thelen. No. 981,817; Jan. 17; Sp. p. 3663; Gaz. vol. 162; p. 619.
Bottle-capping machine. H. Barry. No. 982,231; Jan. 24; Sp. p. 4543; Gaz. vol. 162; p. 791.
Bottle-capping machine. E. C. Miller. No. 982,521; Jan. 24; Sp. p. 5186; Gaz. vol. 162; p. 894.
Bottle-capping machine. F. W. Dafoe. No. 984,649; Feb. 21; Sp. p. 3044; Gaz. vol. 163; p. 539.
Bottle-capping machine. A. Calleson. No. 985,141; Feb. 28; Sp. p. 4036; Gaz. vol. 163; p. 742.
Bottle-capping machine. H. E. Marshall. No. 986,839; Mar. 14; Sp. p. 2297; Gaz. vol. 164; p. 398.
Bottle-capping machine. H. J. Chilton. No. 990,338; Apr. 25; Sp. p. 4415; Gaz. vol. 165; p. 781.
Bottle-capping machine. H. A. Allwardt. No. 991,125; May 2; Sp. p. 631; Gaz. vol. 166; p. 108.
Bottle-capping machine. W. H. Niemeyer. No. 991,879; May 9; Sp. p. 2238; Gaz. vol. 166; p. 400.
Bottle-capping machine. T. J. Levey. No. 997,142; July 4; Sp. p. 1147; Gaz. vol. 168; p. 186.
Bottle-capping machine. L. Bartlett. No. 1,005,795; Oct. 17; Sp. p. 2675; Gaz. vol. 171; p. 491.
Bottle-capping machine. R. Wittemann. No. 1,008,292; Nov. 7; Sp. p. 1400; Gaz. vol. 172; p. 227.
Bottle-capping machine, Fluid-pressure-operated. R. V. Craggs. No. 985,010; Feb. 21; Sp. p. 3750; Gaz. vol. 163; p. 662.
Bottle-capsuling machine. H. C. Braun. No. 995,220; June 13; Sp. p. 2431; Gaz. vol. 167; p. 421.
Bottle-carrier. C. A. Langguth. No. 1,005,235; Oct. 10; Sp. p. 1432; Gaz. vol. 171; p. 262.
Bottle-carrier. J. T. H. Paul. No. 1,013,051; Dec. 26; Sp. p. 5913; Gaz. vol. 173; p. 1034.
Bottle-case. F. Distler. No. 1,008,447; Nov. 14; Sp. p. 1855; Gaz. vol. 172; p. 319.
Bottle-case, Metallic. C. H. Perry. No. 995,985; June 20; Sp. p. 4111; Gaz. vol. 167; p. 715.
Bottle case or carrier. E. C. Baldwin. No. 985,320; Feb. 28; Sp. p. 4468; Gaz. vol. 163; p. 804.
Bottle casing, Vacuum-. S. W. Heaton. No. 1,002,686; Sept. 5; Sp. p. 1115; Gaz. vol. 170; p. 168.
Bottle-cleaning machine. A. J. Petersen. No. 995,806; June 20; Sp. p. 3749; Gaz. vol. 167; p. 654.
Bottle-cleaning machine or apparatus. T. Hill. No. 992,664; May 16; Sp. p. 3927; Gaz. vol. 166; p. 700.
Bottle-closing device. R. Zastrow and L. T. Snow. No. 981,965; Jan. 17; Sp. p. 4025; Gaz. vol. 162; p. 672.
Bottle-closure. W. O. Schwartz. No. 981,482; Jan. 10; Sp. p. 2971; Gaz. vol. 162; p. 483.
Bottle-closure. H. B. Taylor. No. 985,856; Mar. 7; Sp. p. 203; Gaz. vol. 164; p. 33.
Bottle-closure. F. E. Heinrich. No. 992,662; May 16; Sp. p. 3925; Gaz. vol. 166; p. 700.
Bottle-closure. A. A. Roberts. No. 1,002,318; Sept. 5; Sp. p. 303; Gaz. vol. 170; p. 43.
Bottle-closure. J. P. Presser. No. 1,006,874; Oct. 24; Sp. p. 5114; Gaz. vol. 171; p. 902.
Bottle-closure. S. E. Bell. No. 1,007,056; Oct. 31; Sp. p. 5499; Gaz. vol. 171; p. 1016.
Bottle-closure. H. Glass. No. 1,009,237; Nov. 21; Sp. p. 3605; Gaz. vol. 172; p. 629.
Bottle-closure. H. Turk. No. 1,010,396; Nov. 28; Sp. p. 6020; Gaz. vol. 172; p. 1067.
Bottle-closure. G. Turner. No. 1,011,282; Dec. 12; Sp. p. 2001; Gaz. vol. 173; p. 344.
Bottle closure and supporting device. L. W. Aschemeier. No. 997,945; July 18; Sp. p. 2908; Gaz. vol. 168; p. 534.
Bottle closure, Milk-. P. Piatek. No. 1,001,440; Aug. 22; Sp. p. 4812; Gaz. vol. 169; p. 867.
Bottle cooler, Inverted-. A. L. Boggs. No. 991,417; May 2; Sp. p. 1257; Gaz. vol. 166; p. 210.
Bottle-crown-manufacturing machine. R. B. Cochran, Jr. No. 1,006,997; Oct. 24; Sp. p. 5370; Gaz. vol. 171; p. 942.
Bottle crowns or caps, Machine for manufacturing. B. L. Buchanan. No. 987,084; Mar. 14; Sp. p. 2762; Gaz. vol. 164; p. 478.
Bottle, Essence-. F. W. Jones. No. 982,966; Jan. 31; Sp. p. 6120; Gaz. vol. 162; p. 1069.
Bottle, Feeding-. P. Bruders. (Reissue.) No. 13,308; Nov. 7; Sp. p. 1414; Gaz. vol. 172; p. 229.
Bottle filler, Milk-. L. W. Merriam. No. 980,985; Jan. 10; Sp. p. 1847; Gaz. vol. 162; p. 308.
Bottle-fillers, Jetting attachment for. A. N. Ketterer. No. 981,768; Jan. 17; Sp. p. 3547; Gaz. vol. 162; p. 602.
Bottle filling and stoppering machine. F. C. Stockel and J. L. T. Popp. No. 986,603; Mar. 14; Sp. p. 1799; Gaz. vol. 164; p. 319.
Bottle-filling apparatus. N. W. Spangenberger. No. 980,354; Jan. 3; Sp. p. 344; Gaz. vol. 162; p. 62.
Bottle-filling apparatus. R. Briggs. No. 983,974; Feb. 14; Sp. p. 1556; Gaz. vol. 163; p. 274.
Bottle-filling apparatus. T. J. Levey. No. 992,721; May 16; Sp. p. 4041; Gaz. vol. 166; p. 721.
Bottle-filling apparatus. F. L. Caris and C. J. Gardner. No. 996,972; July 4; Sp. p. 781; Gaz. vol. 168; p. 128.
Bottle-filling apparatus. W. L. Bodman. No. 1,004,623; Oct. 3; Sp. p. 162; Gaz. vol. 171; p. 28.
Bottle-filling apparatus, Siphon-. G. L. Kennedy. No. 994,260; June 6; Sp. p. 328; Gaz. vol. 167; p. 56.
Bottle-filling attachment for bib-faucets. E. W. Carter. No. 987,550; Mar. 21; Sp. p. 3755; Gaz. vol. 164; p. 671.
Bottle-filling device. F. A. Thelen. No. 995,927; June 20; Sp. p. 4004; Gaz. vol. 167; p. 696.
Bottle-filling device. J. H. Godfrey and L. J. Housel. No. 1,011,184; Dec. 12; Sp. p. 1764; Gaz. vol. 173; p. 308.
Bottle-filling machine. R. Pfaff and W. Suter. No. 988,657; Apr. 4; Sp. p. 789; Gaz. vol. 165; p. 126.
Bottle-filling machine. R. Pfaff and W. Suter. No. 988,658; Apr. 4; Sp. p. 791; Gaz. vol. 165; p. 127.
Bottle-filling machine. M. Jensen. No. 989,546; Apr. 11; Sp. p. 2670; Gaz. vol. 165; p. 449.
Bottle-filling machine. A. Schneider. No. 991,093; May 2; Sp. p. 550; Gaz. vol. 166; p. 95.
Bottle-filling machine. E. H. Parker. No. 995,711; June 20; Sp. p. 3523; Gaz. vol. 167; p. 621.
Bottle-filling machine. A. Schneider. No. 998,266; July 18; Sp. p. 3618; Gaz. vol. 168; p. 648.
Bottle-filling machine. G. W. Parshall. No. 1,000,547; Aug. 15; Sp. p. 2863; Gaz. vol. 169; p. 525.
Bottle-filling machine. C. L. Bastian. No. 1,000,971; Aug. 15; Sp. p. 3774; Gaz. vol. 169; p. 674.
Bottle for advertising. M. Toch. No. 1,009,453; Nov. 21; Sp. p. 4103; Gaz. vol. 172; p. 707.
Bottle for holding aerated drinks and other liquids. G. W. Midson. No. 1,000,281; Aug. 8; Sp. p. 2258; Gaz. vol. 169; p. 400.
Bottle-grinding device. L. J. Crecelius. No. 989,124; Apr. 11; Sp. p. 1746; Gaz. vol. 165; p. 304.
Bottle-holder. J. T. Nolan. No. 984,962; Feb. 21; Sp. p. 3665; Gaz. vol. 163; p. 646.
Bottle-holder. C. Gaffney. No. 997,614; July 11; Sp. p. 2108; Gaz. vol. 168; p. 375.
Bottle-holder. W. M. Mayo. No. 1,005,447; Oct. 10; Sp. p. 1913; Gaz. vol. 171; p. 338.
Bottle-holder. E. F. Farley. No. 1,008,709; Nov. 14; Sp. p. 2444; Gaz. vol. 172; p. 413.
Bottle holder, Feeding or nursing. H. J. Maynard. No. 995,700; June 20; Sp. p. 3498; Gaz. vol. 167; p. 617.
Bottle holder, Nursing-. M. D. Dekle. No. 986,445; Mar. 14; Sp. p. 1459; Gaz. vol. 164; p. 263.
Bottle-holding receptacle. G. H. Van Court. No. 980,852; Jan. 3; Sp. p. 1435; Gaz. vol. 162; p. 230.
Bottle, Hot-water. P. G. Leistner. No. 1,011,452; Dec. 12; Sp. p. 2356; Gaz. vol. 173; p. 403.
Bottle, Insulated. L. R. Steel. No. 1,004,926; Oct. 3; Sp. p. 824; Gaz. vol. 171; p. 133.
Bottle jacket, Water-. C. Singer. No. 991,098; May 2; Sp. p. 562; Gaz. vol. 166; p. 98.
Bottle machine, Glass-. J. A. Burleigh. No. 998,673; July 25; Sp. p. 4515; Gaz. vol. 168; p. 823.
Bottle machine, Glass-. S. E. Winder. No. 998,824; July 25; Sp. p. 4815; Gaz. vol. 168; p. 877.
Bottle, Medicine-. R. P. McGrann. No. 1,002,293; Sept. 5; Sp. p. 248; Gaz. vol. 170; p. 33.
Bottle, Milk-testing. H. C. Troy. No. 988,155; Mar. 28; Sp. p. 5113; Gaz. vol. 164; p. 906.
Bottle-mold. W. S. Wheaton. No. 992,830; May 23; Sp. p. 4280; Gaz. vol. 166; p. 789.
Bottle-mold. S. E. Gill. No. 1,000,256; Aug. 8; Sp. p. 2202; Gaz. vol. 169; p. 392.
Bottle-molding apparatus. H. O. Bisbing and W. L. Sooy. No. 988,165; Mar. 28; Sp. p. 5127; Gaz. vol. 164; p. 909.

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Bottle, Multicontainer-. C. Ellis and N. L. Foster. No. 1,007,679; Nov. 7; Sp. p. 41; Gaz. vol. 172; p. 10.
Bottle-neck-forming tool. W. S. Dorman. No. 1,003,717; Sept. 19; Sp. p. 3342; Gaz. vol. 170; p. 598.
Bottle-neck-forming tool. W. S. Dorman. (Reissue.) No. 13,339; Dec. 12; Sp. p. 3362; Gaz. vol. 173; p. 559.
Bottle-necks, Funnel-attachment device for. L. P. Rossier. No. 989,428; Apr. 11; Sp. p. 2411; Gaz. vol. 165; p. 407.
Bottle, Non-refillable. C. E. Lincoln. No. 980,300; Jan. 3; Sp. p. 225; Gaz. vol. 162; p. 43.
Bottle, Non-refillable. J. T. McKenna. No. 980,656; Jan. 3; Sp. p. 1054; Gaz. vol. 162; p. 167.
Bottle, Non-refillable. J. C. Walters. No. 980,715; Jan. 3; Sp. p. 1164; Gaz. vol. 162; p. 185.
Bottle, Non-refillable. C. Savino. No. 980,841; Jan. 3; Sp. p. 1415; Gaz. vol. 162; p. 227.
Bottle, Non-refillable. R. Dehrenbach. No. 980,925; Jan. 10; Sp. p. 1661; Gaz. vol. 162; p. 287.
Bottle, Non-refillable. I. Takács. No. 981,327; Jan. 10; Sp. p. 2636; Gaz. vol. 162; p. 429.
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Bottle, Non-refillable. P. H. Grinke. No. 982,268; Jan. 24; Sp. p. 4628; Gaz. vol. 162; p. 803.
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Bottle, Non-refillable. W. D. C. Wood. No. 984,251; Feb. 14; Sp. p. 2175; Gaz. vol. 163; p. 369.
Bottle, Non-refillable. W. H. Spellmon. No. 984,400; Feb. 14; Sp. p. 2473; Gaz. vol. 163; p. 419.
Bottle, Non-refillable. W. E. Barnard. No. 984,642; Feb. 21; Sp. p. 3031; Gaz. vol. 163; p. 536.
Bottle, Non-refillable. S. W. Phelps. No. 984,844; Feb. 21; Sp. p. 3444; Gaz. vol. 163; p. 608.
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Bottle, Non-refillable. G. W. Wood. No. 985,487; Feb. 28; Sp. p. 4859; Gaz. vol. 163; p. 862.
Bottle, Non-refillable. W. R. Grove. No. 985,586; Feb. 28; Sp. p. 5070; Gaz. vol. 163; p. 896.
Bottle. Non-refillable. H. J. Rosenberg. No. 985,940; Mar. 7; Sp. p. 394; Gaz. vol. 164; p. 63.
Bottle, Non-refillable. R. Bova. No. 986,042; Mar. 7; Sp. p. 615; Gaz. vol. 164; p. 99.
Bottle, Non-refillable. R. Wright. No. 986,114; Mar. 7; Sp. p. 754; Gaz. vol. 164; p. 122.
Bottle, Non-refillable. F. A. Stephenson. No. 986,516; Mar. 14; Sp. p. 1617; Gaz. vol. 164; p. 287.
Bottle, Non-refillable. J. W. Collins. No. 986,546; Mar. 14; Sp. p. 1679; Gaz. vol. 164; p. 298.
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Bottle, Non-refillable. C. Hecker. No. 987,298; Mar. 21; Sp. p. 3259; Gaz. vol. 164; p. 587.
Bottle, Non-refillable. C. E. W. Archer. No. 988,061; Mar. 28; Sp. p. 4932; Gaz. vol. 164; p. 875.
Bottle, Non-refillable. J. Veno. No. 988,413; Apr. 4; Sp. p. 268; Gaz. vol. 165; p. 43.
Bottle, Non-refillable. C. B. Davis and J. H. Smith. No. 988,550; Apr. 4; Sp. p. 550; Gaz. vol. 165; p. 88.
Bottle, Non-refillable. N. O. Houghton. No. 988,781; Apr. 4; Sp. p. 1054; Gaz. vol. 165; p. 168.
Bottle, Non-refillable. G. V. Stein. No. 988,953; Apr. 4; Sp. p. 1381; Gaz. vol. 165; p. 222.
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Bottle, Non-refillable. H. B. Rodgers and W. S. Richter. No. 997,094; July 4; Sp. p. 1057; Gaz. vol. 168; p. 170.
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Bottle, Non-refillable. C. Seidler. No. 999,886; Aug. 8; Sp. p. 1397; Gaz. vol. 169; p. 265.
Bottle, Non-refillable. S. O. Stanich. No. 1,001,474; Aug. 22; Sp. p. 4864; Gaz. vol. 169; p. 878.
Bottle, Non-refillable. J. Kretzer. No. 1,003,918; Sept. 19; Sp. p. 3733; Gaz. vol. 170; p. 665.
Bottle, Non-refillable. O. J. Flack. No. 1,004,402; Sept. 26; Sp. p. 4862; Gaz. vol. 170; p. 859.
Bottle, Non-refillable. O. Sorgan. No. 1,004,488; Sept. 26; Sp. p. 5052; Gaz. vol. 170; p. 889.
Bottle, Non-refillable. E. Susol. No. 1,004,495; Sept. 26; Sp. p. 5065; Gaz. vol. 170; p. 891.
Bottle, Non-refillable. F. S. Whitney. No. 1,004,513; Sept. 26; Sp. p. 5095; Gaz. vol. 170; p. 897.
Bottle, Non-refillable. C. Savino. No. 1,004,691; Oct. 3; Sp. p. 303; Gaz. vol. 171; p. 52.
Bottle, Non-refillable. J. De Rose. No. 1,005,106; Oct. 3; Sp. p. 1139; Gaz. vol. 171; p. 192.
Bottle, Non-refillable. E. B. Miles. No. 1,005,996; Oct. 17; Sp. p. 3130; Gaz. vol. 171; p. 562.
Bottle, Non-refillable. P. A. Hornig. No. 1,007,698; Nov. 7; Sp. p. 99; Gaz. vol. 172; p. 16.
Bottle, Non-refillable. C. Jorgensen. No. 1,008,600; Nov. 14; Sp. p. 2269; Gaz. vol. 172; p. 376.
Bottle, Non-refillable. C. E. Tucker. No. 1,009,944; Nov. 28; Sp. p. 5081; Gaz. vol. 172; p. 916.
Bottle, Non-refillable E. C. Davidson. No. 1,010,868; Dec. 5; Sp. p. 1051; Gaz. vol. 173; p. 164.
Bottle, Non-refillable. R. J. Barry. No. 1,011,011; Dec. 5; Sp. p. 1336; Gaz. vol. 173; p. 213.
Bottle, Non-refillable. V. J. Melloch and R. D. Lewry. No. 1,011,472; Dec. 12; Sp. p. 2407; Gaz. vol. 173; p. 411.
Bottle, Non-refillable. W. W. Clark. No. 1,011,580; Dec. 12; Sp. p. 2687; Gaz. vol. 173; p. 451.
Bottle, Non-refillable. T. Nishida. No. 1,012,095; Dec. 19; Sp. p. 3832; Gaz. vol. 173; p. 663.
Bottle, Non-refillable. K. Lovejoy. No. 1,012,672; Dec. 26; Sp. p. 5034; Gaz. vol. 173; p. 904.
Bottle, Non-refillable. T. B. M. Dougherty. No. 1,012,826; Dec. 26; Sp. p. 5402; Gaz. vol. 173; p. 959.
Bottle, Non-refillable. R. L. and C. E. Young. No. 1,012,958; Dec. 26; Sp. p. 5719; Gaz. vol. 173; p. 1003.
Bottle, Non-resealable. G. M. Jobe. No. 992,507; May 16; Sp. p. 3605; Gaz. vol. 166; p. 647.
Bottle, Nursing-. W. M. Decker. No. 985,328; Feb. 28; Sp. p. 4484; Gaz. vol. 163; p. 807.
Bottle-opener. H. Huebner. No. 994,402; June 6; Sp. p. 629; Gaz. vol. 167; p. 107.
Bottle opener and closer. J. D. Thompson. No. 987,268; Mar. 21; Sp. p. 3194; Gaz. vol. 164; p. 577.
Bottle or jar, Non-refillable. J. Buktenica. No. 1,001,928; Aug. 29; Sp. p. 5853; Gaz. vol. 169; p. 1063.
Bottle or like vessel, Non-refillable. J. M. Bley. No. 1,012,319; Dec. 19; Sp. p. 4311; Gaz. vol. 173; p. 740.
Bottle or the like, Non-refillable. A. R. Edwards. No. 1,001,744; Aug. 29; Sp. p. 5436; Gaz. vol. 169; p. 1001.
Bottle, Poison-. O. M. Kelso. No. 1,008,647; Nov. 14; Sp. p. 2321; Gaz. vol. 172; p. 392.
Bottle, Portable ink-. L. W. Aschemeier. No. 985,493; Feb. 28; Sp. p. 4866; Gaz. vol. 163; p. 864.
Bottle-rack. S. L. Goldman. No. 1,012,843; Dec. 26; Sp. p. 5452; Gaz. vol. 173; p. 965.
Bottle, Safety medicine-. N. Illoway. No. 1,008,916; Nov. 14; Sp. p. 2866; Gaz. vol. 172; p. 482.
Bottle, Siphon-. P. Devarco. No. 1,010,730; Dec. 5; Sp. p. 733; Gaz. vol. 173; p. 116.
Bottle-soaking machine. A. H. Wehmiller and J. W. Dawson. No. 981,962; Jan. 17; Sp. p. 4019; Gaz. vol. 162; p. 670.
Bottle-stopper. J. C. Schleicher. No. 982,692; Jan. 24; Sp. p. 5510; Gaz. vol. 162; p. 950.
Bottle-stopper. J. M. Creighton. No. 983,211; Jan. 31; Sp. p. 6624; Gaz. vol. 162; p. 1152.
Bottle-stopper. H. C. Braun. No. 985,000; Feb. 21; Sp. p. 3732; Gaz. vol. 163; p. 659.
Bottle-stopper. J. S. Porter. No. 992,448; May 16; Sp. p. 3479; Gaz. vol. 166; p. 626.
Bottle-stopper. I. L. Leasure. No. 998,354; July 18; Sp. p. 3838; Gaz. vol. 168; p. 681.
Bottle-stopper-clamping device. J. R. Heissenberger. No. 1,008,263; Nov. 7; Sp. p. 1325; Gaz. vol. 172; p. 216.
Bottle, Therapeutic. L. F. Gillette. No. 991,844; May 9; Sp. p. 2175; Gaz. vol. 166; p. 388.
Bottle tube, Non-breakable siphon-. O. L. Koscherak. No. 984,936; Feb. 21; Sp. p. 3622; Gaz. vol. 163; p. 639.
Bottle, Two-part. E. N. Breitung. No. 986,963; Mar. 14; Sp. p. 2545; Gaz. vol. 164; p. 440.
Bottle, Vacuum-insulated. G. P. Van Wye. No. 1,005,087; Oct. 3; Sp. p. 1101; Gaz. vol. 171; p. 186.
Bottle-washer. C. W. Hamann. No. 995,596; June 20; Sp. p. 3292; Gaz. vol. 167; p. 579.
Bottle-washer. H. Krause. No. 999,042; July 25; Sp. p. 5367; Gaz. vol. 168; p. 955.
Bottle washing and rinsing machine. P. Polnisch. No. 1,012,570; Dec. 19; Sp. p. 4812; Gaz. vol. 173; p. 826.
Bottle washing and soaking machine. H. F. Stock. No. 981,712; Jan. 17; Sp. p. 3431; Gaz. vol. 162; p. 581.
Bottle-washing machine. J. A. Prince. No. 981,002; Jan. 10; Sp. p. 1894; Gaz. vol. 162; p. 314.
Bottle-washing machine. A. H. Wehmiller and J. W. Dawson. No. 981,960; Jan. 17; Sp. p. 4015; Gaz. vol. 162; p. 670.
Bottle-washing machine. H. J. Broecker. No. 984,069; Feb. 14; Sp. p. 1785; Gaz. vol. 163; p. 307.
Bottle-washing machine. C. E. Felt. No. 993,672; May 30; Sp. p. 6128; Gaz. vol. 166; p. 1108.
Bottle-washing machine. G. Weiss. No. 1,003,223; Sept. 12; Sp. p. 2284; Gaz. vol. 170; p. 393.
Bottle-washing machine. J. M. Felger. No. 1,005,110; Oct. 3; Sp. p. 1147; Gaz. vol. 171; p. 194.

Alphabetical list of inventions—Continued.

Bottle-washing machine. G. W. Dobson. No. 1,012,194; Dec. 19; Sp. p. 4052; Gaz. vol. 173; p. 696.
Bottles and like articles, Machine for cleaning. G. R. Lawrence. (Reissue.) No. 13,250; May 30; Sp. p. 7014; Gaz. vol. 166; p. 1259.
Bottles and the like, Machine for attaching closures to. A. Calleson. No. 987,670; Mar. 21; Sp. p. 4007; Gaz. vol. 164; p. 713.
Bottles and the like, Means for cutting. T. A. Montaperto. No. 999,668; Aug. 1; Sp. p. 929; Gaz. vol. 169; p. 162.
Bottles, Combined breast and nipple for nursing-. W. M. Decker. No. 982,776; Jan. 24; Sp. p. 5700; Gaz. vol. 162; p. 977.
Bottles, &c., Combined brush and cap for. F. W. R. Bradford. No. 988,544; Apr. 4; Sp. p. 540; Gaz. vol. 165; p. 86.
Bottles, Device for preventing the refilling of. B. F. Hand and A. L. Bucknam. No. 989,964; Apr. 18; Sp. p. 3592; Gaz. vol. 165; p. 623.
Bottles, Device for regulating the flow of liquid from nursing-. W. MacGlashan. No. 990,662; Apr. 25; Sp. p. 5157; Gaz. vol. 165; p. 894.
Bottles, Edge-rolling device for hot-water. A. D. Lamont. No. 993,308; May 23; Sp. p. 5287; Gaz. vol. 166; p. 948.
Bottles, Machine for affixing closures to. P. W. Hodgkinson. No. 985,803; Mar. 7; Sp. p. 69; Gaz. vol. 164; p. 15.
Bottles, Machine for applying caps to. F. Recht. No. 1,007,892; Nov. 7; Sp. p. 554; Gaz. vol. 172; p. 85.
Bottles, Manufacturing glass vacuum-wall. O. J. W. Higbee. No. 1,004,257; Sept. 26; Sp. p. 4586; Gaz. vol. 170; p. 811.
Bottles, Nipple-retaining device for nursing-. D. M. Syme. No. 1,001,180; Aug. 22; Sp. p. 4272; Gaz. vol. 169; p. 779.
Bottles or like containers, Apparatus for handling. O. Eick. No. 999,553; Aug. 1; Sp. p. 714; Gaz. vol. 169; p. 123.
Bottling-machine. J. H. Champ. No. 1,001,353; Aug. 22; Sp. p. 4639; Gaz. vol. 169; p. 838.
Bottling-machine. F. J. Herd. No. 1,010,909; Dec. 5; Sp. p. 1136; Gaz. vol. 173; p. 179.
Bottling-machine. A. A. Carper. No. 1,012,984; Dec. 26; Sp. p. 5771; Gaz. vol. 173; p. 1011.
Bottling machine, Liquid-. A. Schneider. No. 1,010,692; Dec. 5; Sp. p. 635; Gaz. vol. 173; p. 102.
Bottling machine, Milk-. G. Strandt. No. 1,011,263; Dec. 12; Sp. p. 1948; Gaz. vol. 173; p. 336.
Bottling machine, Milk-. G. Strandt. No. 1,011,264; Dec. 12; Sp. p. 1952; Gaz. vol. 173; p. 336.
Bow rest and lock, Combined. E. Sanborn. No. 1,005,477; Oct. 10; Sp. p. 1974; Gaz. vol. 171; p. 348.
Bow-socket separator. J. C. Coss. No. 1,002,649; Sept. 5; Sp. p. 1038; Gaz. vol. 170; p. 155.
Bowl or container, Sugar. R. C. Jackson. No. 1,007,288; Oct. 31; Sp. p. 6026; Gaz. vol. 171; p. 1099.
Bowl, Sugar-. G. A. Henriquez. No. 1,002,150; Aug. 29; Sp. p. 6276; Gaz. vol. 169; p. 1135.
Bowl, Sugar-. J. Matas. No. 1,003,767; Sept. 19; Sp. p. 3453; Gaz. vol. 170; p. 614.
Bowls, Carrier for washing-. C. G. Sargent. No. 1,004,595; Oct. 3; Sp. p. 102; Gaz. vol. 171; p. 18.
Bowling-alley. P. A. Roth. No. 990,296; Apr. 25; Sp. p. 4311; Gaz. vol. 165; p. 767.
Bowling-alley pin-setting apparatus. F. C. Hobbs. No. 998,001; July 18; Sp. p. 3027; Gaz. vol. 168; p. 553.
Bowling-alleys, Pin-spotting device for. A. W. Tisdale. No. 983,956; Feb. 14; Sp. p. 1527; Gaz. vol. 163; p. 268.
Bowling-pin spotter. F. Hughes. No. 996,250; June 27; Sp. p. 4719; Gaz. vol. 167; p. 839.
Box: *See* Annealing-box; Ballot-box; Battery-box; Berry-box; Boiler fire-box; Cable-box; Camper's-outfit box; Candy, &c., box; Cash-box; Cigarette-box; Coal-box; Cock-box; Collapsible box; Controller-box; Display-box; Egg and like box; Electric-cut-out box; Electric wall-box; Electrical junction-box; Explosive joke-box; Fare-box; Feed-box; File-box; Film-reel transportation-box; Fire-box; Fire-alarm box; Fireproof box; Fodder-box; Folding box; Fruit-box; Fuse-box; Gas-meter stuffing-box; Gear-box; Grave-digger's dirt-box; Grease-box; Ice-box; Jarring-machine blacking-box; Journal-box; Junction-box; Junction or terminal box; Knockdown box; Lubricating journal-box; Lunch-box; Mail-box; Match-box; Measuring and mold-filling box; Message-box; Metal box; Meter-box; Meter and outlet box; Milk and mail box; Miter-box; Money-box; Nest-box; Non-refillable box; Outlet-box; Packing-box; Packing and reshipping box; Packing or shipping box; Paper box; Paper-storage box; Pipe-box; Posting-box; Poultry-box; Powder-box; Protecting-box; Refuse-box; Register-box; Resistance-box; Rolling-mill guide-box; Sawdust-box; Self-locking box; Service and valve box; Sewer vent-box; Sewing-box; Shake-out box; Sheet-metal box; Shipping-box; Sound-box; Stamp-box; Stuffing-box; Suction-box; Switch-box; Talking-machine sound-box; Tally-box; Telephone and like box; Ticket-indicator box; Tinder-box; Tobacco-box; Tobacco packing and shipping box; Tool-box; Toy money-box; Trick-box; Vehicle-box; Vibrator-box; Wagon-box.
Box. W. P. Miller. No. 980,814; Jan. 3; Sp. p. 1359; Gaz. vol. 162; p. 218.
Box. H. B. Walter. No. 984,404; Feb. 14; Sp. p. 2481; Gaz. vol. 163; p. 420.
Box. D. P. Fleming. No. 988,562; Apr. 4; Sp. p. 580; Gaz. vol. 165; p. 93.
Box. H. N. Lincoln. No. 988,944; Apr. 4; Sp. p. 1369; Gaz. vol. 165; p. 219.
Box. H. C. Walker. No. 993,330; May 23; Sp. p. 5343; Gaz. vol. 166; p. 957.
Box. W. I. Tuttle. No. 994,221; June 6; Sp. p. 251; Gaz. vol. 167; p. 43.
Box. W. I. Tuttle. No. 994,222; June 6; Sp. p. 252; Gaz. vol. 167; p. 43.
Box. J. B. Grimes. No. 994,996; June 13; Sp. p. 1988; Gaz. vol. 167; p. 348.
Box. W. E. Reineke. No. 995,719; June 20; Sp. p. 3543; Gaz. vol. 167; p. 624.
Box. W. W. Baird. No. 997,109; July 4; Sp. p. 1083; Gaz. vol. 168; p. 175.
Box. C. M. Morlan. No. 998,109; July 18; Sp. p. 3284; Gaz. vol. 168; p. 592.
Box. A. L. East. No. 1,000,243; Aug. 8; Sp. p. 2176; Gaz. vol. 169; p. 387.
Box and crate. H. L. Gulline. No. 994,997; June 13; Sp. p. 1989; Gaz. vol. 167; p. 348.
Box-blank machine. H. G. Mead. No. 1,009,917; Nov. 28; Sp. p. 5025; Gaz. vol. 172; p. 907.
Box-blank-making machine. E. G. Staude. (Reissue.) No. 13,273; July 18; Sp. p. 4327; Gaz. vol. 168; p. 765.
Box-case. R. W. Thayer. No. 1,003,669; Sept. 19; Sp. p. 3225; Gaz. vol. 170; p. 581.
Box-clamping machine. C. N. Lambert. No. 989,161; Apr. 11; Sp. p. 1830; Gaz. vol. 165; p. 317.
Box corner-fastening. A. J. Hodge. No. 1,000,600; Aug. 15; Sp. p. 2987; Gaz. vol. 169; p. 546.
Box-cover. J. O. Main. No. 984,282; Feb. 14; Sp. p. 2251; Gaz. vol. 163; p. 380.
Box-cover clamp. C. R. Keating. No. 998,617; July 25; Sp. p. 4386; Gaz. vol. 168; p. 804.
Box-cover fastener. L. D. Fox. No. 982,712; Jan. 24; Sp. p. 5555; Gaz. vol. 162; p. 956.
Box-cover fastener. F. W. Dobbel. No. 1,001,257; Aug. 22; Sp. p. 4421; Gaz. vol. 169; p. 804.
Box-covering machine. C. B. Baldwin. No. 984,641; Feb. 21; Sp. p. 3027; Gaz. vol. 163; p. 536.
Box-covering strips, Machine for attaching reinforcing-slips to. E. Jagenberg. No. 1,000,603; Aug. 15; Sp. p. 2997; Gaz. vol. 169; p. 547.
Box edges, Machine for trimming metal-. J. Heine. No. 1,007,103; Oct. 31; Sp. p. 5616; Gaz. vol. 171; p. 1032.
Box end support. L. Wittels. No. 1,010,473; Dec. 5; Sp. p. 154; Gaz. vol. 173; p. 27.
Box-ending-machine guard attachment. E. J. Perrin. No. 1,009,171; Nov. 21; Sp. p. 3416; Gaz. vol. 172; p. 604.
Box-fastener. F. B. Williams. No. 987,783; Mar. 28; Sp. p. 4274; Gaz. vol. 164; p. 779.
Box-fastener. S. Svenson. No. 994,486; June 6; Sp. p. 781; Gaz. vol. 167; p. 133.
Box-fastener. A. H. Gregg. No. 1,010,618; Dec. 5; Sp. p. 488; Gaz. vol. 173; p. 76.
Box-fastening. S. Whitehall. No. 998,822; July 25; Sp. p. 4851; Gaz. vol. 168; p. 876.
Box-filling machine. B. G. Vaughan. No. 1,010,828; Dec. 5; Sp. p. 952; Gaz. vol. 173; p. 149.
Box-folding machine. A. B. Cowles. No. 980,609; Jan. 3; Sp. p. 930; Gaz. vol. 162; p. 151.
Box-folding machine. E. W. Labombarde. (Reissue.) No. 13,198; Jan. 31; Sp. p. 6748; Gaz. vol. 162; p. 1170.
Box for containing spool-silk and the like. A. L. Kingsbury. No. 995,259; June 13; Sp. p. 2514; Gaz. vol. 167; p. 434.
Box-forming mechanism. G. W. Maxwell. No. 989,789; Apr. 18; Sp. p. 3217; Gaz. vol. 165; p. 563.
Box-front fastener. C. E. Hendrix. No. 984,217; Feb. 14; Sp. p. 2103; Gaz. vol. 163; p. 357.
Box-lid. A. Bell. No. 1,000,960; Aug. 15; Sp. p. 3753; Gaz. vol. 169; p. 670.
Box-lid fastener. M. Shepard. No. 999,891; Aug. 8; Sp. p. 1407; Gaz. vol. 169; p. 267.
Box-lid fastener. A. Perpick. No. 1,010,948; Dec. 5; Sp. p. 1216; Gaz. vol. 173; p. 192.
Box-lid press. C. E. Taylor and G. S. Boin. No. 1,005,669; Oct. 10; Sp. p. 2423; Gaz. vol. 171; p. 417.
Box-lid supporter. W. B. Speice. No. 991,102; May 2; Sp. p. 569; Gaz. vol. 166; p. 99.
Box-machine. G. E. Priest. No. 987,320; Mar. 21; Sp. p. 3306; Gaz. vol. 164; p. 594.
Box-machine. H. G. Schmidt. No. 987,748; Mar. 28; Sp. p. 4202; Gaz. vol. 164; p. 767.
Box-machine corner-turning apparatus. C. F. Pinkham and W. H. Babb. No. 985,205; Feb. 28; Sp. p. 4219; Gaz. vol. 163; p. 765.
Box machine, Wire-bound-. J. H. Greenstreet. No. 985,996; Mar. 7; Sp. p. 526; Gaz. vol. 164; p. 83.
Box machine, Wire-bound-. J. H. Greenstreet. No. 991,716; May 9; Sp. p. 1928; Gaz. vol. 166; p. 346.
Box-machines, Glue-applying apparatus for. C. F. Jenkins. No. 985,902; Mar. 7; Sp. p. 311; Gaz. vol. 164; p. 50.

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Box making and sanding machine. C. H. Palmer and J. W. Denmead. No. 985,831; Mar. 7; Sp. p. 139; Gaz. vol. 164; p. 26.
Box-making machine. G. D. Parker. No. 980,431; Jan. 3; Sp. p. 521; Gaz. vol. 162; p. 89.
Box-making machine. G. D. Parker. No. 982,439; Jan. 24; Sp. p. 4992; Gaz. vol. 162; p. 864.
Box-making machine. C. H. Palmer and J. W. Denmead. No. 985,832; Mar. 7; Sp. p. 144; Gaz. vol. 164; p. 26.
Box-making machine. A. Potdevin. No. 992,244; May 16; Sp. p. 3015; Gaz. vol. 166; p. 555.
Box-making machine. G. D. Parker. No. 993,545; May 30; Sp. p. 5829; Gaz. vol. 166; p. 1063.
Box-making machine. W. R. Comings. No. 1,000,991; Aug. 22; Sp. p. 3857; Gaz. vol. 169; p. 715.
Box-making machine. A. Staderini. No. 1,001,319; Aug. 22; Sp. p. 4569; Gaz. vol. 169; p. 826.
Box-making machine. G. D. Parker. No. 1,007,234; Oct. 31; Sp. p. 5918; Gaz. vol. 171; p. 1080.
Box-making machine, Pasteboard-. R. Högfeldt. No. 996,856; July 4; Sp. p. 533; Gaz. vol. 168; p. 87.
Box-material-assembling apparatus. E. E. Flora. No. 995,667; June 20; Sp. p. 3434; Gaz. vol. 167; p. 605.
Box-opener. H. Simmons. No. 1,005,755; Oct. 10; Sp. p. 2590; Gaz. vol. 171; p. 446.
Box or case for containing goods for transport. A. J. Warne-Browne. No. 983,099; Jan. 31; Sp. p. 6420; Gaz. vol. 162; p. 1115.
Box or crate. C. A. McGown. No. 987,250; Mar. 21; Sp. p. 3151; Gaz. vol. 164; p. 570.
Box press, Fruit-. S. E. and C. W. Maddox. No. 995,695; June 20; Sp. p. 3488; Gaz. vol. 167; p. 614.
Box-rack. H. H. Hungerford. No. 983,824; Feb. 7; Sp. p. 1218; Gaz. vol. 163; p. 194.
Box-seat, box-couch, and the like. J. Hoey. No. 1,006,553; Oct. 24; Sp. p. 4426; Gaz. vol. 171; p. 790.
Box-shooks, Treating. M. J. Miller. No. 982,973; Jan. 31; Sp. p. 6136; Gaz. vol. 162; p. 1072.
Box-skid. L. H. Carlson. No. 990,105; Apr. 18; Sp. p. 3870; Gaz. vol. 165; p. 669.
Box-spring. D. Micon. No. 1,011,225; Dec. 12; Sp. p. 1861; Gaz. vol. 173; p. 322.
Box-stapling machine. W. Osterholm. No. 980,553; Jan. 3; Sp. p. 820; Gaz. vol. 162; p. 132.
Box-strap, Metallic. S. C. Cary. No. 981,532; Jan. 10; Sp. p. 3063; Gaz. vol. 162; p. 500.
Box top, Metal-. O. Becher. No. 980,743; Jan. 3; Sp. p. 1209; Gaz. vol. 162; p. 194.
Box with movable slides for packing pictures. M. J. L. S. Le Guisquet. No. 1,004,162; Sept. 26; Sp. p. 4399; Gaz. vol. 170; p. 778.
Boxes and the like, Clamping device for wooden. A. Schuh. No. 1,010,524; Dec. 5; Sp. p. 278; Gaz. vol. 173; p. 44.
Boxes, Apparatus for facilitating the removal of the contents of. H. Spühl. No. 1,011,513; Dec. 12; Sp. p. 2504; Gaz. vol. 173; p. 426.
Boxes, cans, and the like, Closure for. J. L. Levy. No. 1,002,531; Sept. 5; Sp. p. 780; Gaz. vol. 170; p. 114.
Boxes, cases, &c., Lid for. S. Maggiorani. No. 982,436; Jan. 24; Sp. p. 4987; Gaz. vol. 162; p. 863.
Boxes, &c., Machine for affixing closure-strips, labels, or the like around. M. Feibusch. No. 1,010,030; Nov. 28; Sp. p. 5280; Gaz. vol. 172; p. 947.
Boxes, Machine for securing neck-strips to. E. Jagenberg. No. 996,768; July 4; Sp. p. 338; Gaz. vol. 168; p. 57.
Boxes, Means for locking metal-bound. D. P. Fleming. No. 998,887; July 25; Sp. p. 5018; Gaz. vol. 168; p. 901.
Boxes, Means for supplying paste to the coverings for. M. B. Diskin. No. 985,574; Feb. 28; Sp. p. 5041; Gaz. vol. 163; p. 892.
Boxes or bottles, Making. C. F. Jenkins. No. 991,509; May 9; Sp. p. 1452; Gaz. vol. 166; p. 273.
Boxes or envelops, Locking device for. C. Jackson. No. 1,000,006; Aug. 8; Sp. p. 1634; Gaz. vol. 169; p. 307.
Boxing, Protector for use in. G. O. Brewster. No. 1,004,737; Oct. 3; Sp. p. 413; Gaz. vol. 171; p. 69.
Brace: *See* Ankle-brace; Automobile fender-brace; Back-brace; Car-brace; Chair-brace; Dash-brace; Door-brace; Fence-post brace; Folding brace; Foot glove-brace; Grave-brace; Hay-rack brace; Lightning-rod brace; Lightning-rod-top brace; Rail-brace; Railway-rail brace; Ratchet-brace; Sheet-metal brace; Shoulder-brace; Supporting-brace; Tie-plate brace.
Brace. C. R. Anderson. No. 980,733; Jan. 3; Sp. p. 1195; Gaz. vol. 162; p. 191.
Brace. C. A. Burger. No. 981,976; Jan. 17; Sp. p. 4045; Gaz. vol. 162; p. 675.
Brace. W. C. Allyn. No. 993,140; May 23; Sp. p. 4959; Gaz. vol. 166; p. 897.
Brace. G. W. Bowman. No. 1,012,509; Dec. 19; Sp. p. 4677; Gaz. vol. 173; p. 803.
Brace-bit for boring wood, Variable-diameter. G. W. Green. No. 994,457; June 6; Sp. p. 725; Gaz. vol. 167; p. 124.
Brace tie-plate. C. J. Gadd. No. 983,818; Feb. 7; Sp. p. 1186; Gaz. vol. 163; p. 191.
Bracelet. J. D. Kirby. No. 993,303; May 23; Sp. p. 5281; Gaz. vol. 166; p. 947.
Bracelet. J. D. Kirby. No. 993,305; May 23; Sp. p. 5284; Gaz. vol. 166; p. 948.
Bracelet. H. Harris. No. 1,000,804; Aug. 15; Sp. p. 3429; Gaz. vol. 169; p. 616.
Bracelet. W. S. Lederer. No. 1,002,922; Sept. 12; Sp. p. 1676; Gaz. vol. 170; p. 289.
Bracelet. J. F. Killion. No. 1,010,636; Dec. 5; Sp. p. 531; Gaz. vol. 173; p. 83.
Bracelet-band. H. L. Allen. No. 997,225; July 4; Sp. p. 1321; Gaz. vol. 168; p. 215.
Bracelet, Expansible flexible. E. G. Harrop. No. 998,173; July 18; Sp. p. 3406; Gaz. vol. 168; p. 615.
Bracket: *See* Adjustable bracket; Bearing-bracket; Car-door safety-bracket; Closet-bracket; Curtain-bracket; Cut-lever bracket; Door-bracket; Extensible bracket; Extension-bracket; Insulator-bracket; Ladder-bracket; Lamp-bracket; Lantern-bracket; Meter-bracket; Post-bracket; Pump-bracket; Rafter-bracket; Roof-bracket; Roofing-bracket; Scaffold-bracket; Search-light bracket; Self-supporting bracket; Shade-bracket; Shade and curtain bracket; Shade-roller bracket; Sink-bracket; Sink-frame bracket; Uncoupling-rod bracket; Wagon-box bracket.
Bracket. O. L. Johnson. No. 980,532; Jan. 3; Sp. p. 781; Gaz. vol. 162; p. 124.
Bracket. W. G. Venard. No. 985,079; Feb. 21; Sp. p. 3890; Gaz. vol. 163; p. 687.
Bracket. J. J. Tokheim. No. 989,208; Apr. 11; Sp. p. 1922; Gaz. vol. 165; p. 533.
Bracket. C. H. Smith. No. 990,399; Apr. 25; Sp. p. 4559; Gaz. vol. 165; p. 804.
Bracket. A. D. Hill. No. 1,004,426; Sept. 26; Sp. p. 4928; Gaz. vol. 170; p. 867.
Bracket. G. H. Abel, Jr. No. 1,011,302; Dec. 12; Sp. p. 2042; Gaz. vol. 173; p. 351.
Bracket for window-washers and the like. B. B. Eastman. No. 1,009,056; Nov. 21; Sp. p. 3195; Gaz. vol. 172; p. 566.
Bracket-seat. L. Douglas. No. 980,618; Jan. 3; Sp. p. 947; Gaz. vol. 162; p. 154.
Braid-machine. H. Luthe. No. 1,011,632; Dec. 12; Sp. p. 2814; Gaz. vol. 173; p. 469.
Braider-spool. F. Mossberg. No. 995,801; June 20; Sp. p. 3741; Gaz. vol. 167; p. 652.
Braiding and similar machines, Carrier for. A. Petersen. No. 984,022; Feb. 14; Sp. p. 1688; Gaz. vol. 163; p. 290.
Braiding-carrier tension. S. W. Wardwell. No. 981,958; Jan. 17; Sp. p. 4011; Gaz. vol. 162; p. 669.
Braiding-machine. E. F. Parks and S. W. Wardwell. No. 981,938; Jan. 17; Sp. p. 3963; Gaz. vol. 162; p. 662.
Braiding-machine. O. R. Van Vechten. No. 988,678; Apr. 4; Sp. p. 829; Gaz. vol. 165; p. 134.
Braiding-machine. E. F. Parks and S. W. Wardwell. No. 1,000,436; Aug. 15; Sp. p. 2608; Gaz. vol. 169; p. 485.
Braiding-machine. F. Thun and R. C. Rahm. No. 1,001,092; Aug. 22; Sp. p. 4101; Gaz. vol. 169; p. 751.
Braiding-machine. F. W. Plumb. No. 1,005,574; Oct. 10; Sp. p. 2223; Gaz. vol. 171; p. 383.
Braiding-machine. S. W. Wardwell. No. 1,008,504; Nov. 14; Sp. p. 1984; Gaz. vol. 172; p. 340.
Braiding-machine. H. Buscher. No. 1,011,913; Dec. 19; Sp. p. 3414; Gaz. vol 173; p. 598.
Braiding-machine stop device. S. W. Wardwell. No. 1,007,904; Nov. 7; Sp. p. 582; Gaz. vol. 172; p. 90.
Braiding-machine tension device. S. W. Wardwell and E. F. Parks. No. 981,957; Jan. 17; Sp. p. 4008; Gaz. vol. 162; p. 668.
Brake: *See* Air-brake; Automobile-brake; Automobile emergency-brake; Band-brake; Cam-brake; Car-brake; Car emergency-brake; Car safety-brake; Carriage-brake; Carrier-brake; Cart-brake; Chainless hand-brake; Coaster-brake; Compound brake; Double brake; Dough-brake; Electric brake; Electrodynamic brake; Electromagnetic brake; Electropneumatic brake; Emergency-brake; Emergency and straight-air brake; Expanding brake; Fluid-brake; Fluid-pressure brake; Hay-rack brake; High-pressure-service brake; Hoisting-apparatus brake; Machine-brake; Printing-press brake; Rail-brake; Railway-brake; Screw-power brake; Skate-brake; Sled-brake; Sleigh-brake; Slide-brake; Track-brake; Vehicle-brake; Wagon-brake; Wheel-brake.
Brake. J. E. Wright. No. 987,337; Mar. 21; Sp. p. 3335; Gaz. vol. 164; p. 599.
Brake. P. Hallot. No. 988,464; Apr. 4; Sp. p. 375; Gaz. vol. 165; p. 60.
Brake. J. A. Hart. No. 997,290; July 11; Sp. p. 1467; Gaz. vol. 168; p. 268.
Brake. A. Christianson. No. 999,153; July 25; Sp. p. 5565; Gaz. vol. 168; p. 989.
Brake. C. L. Lincoln. No. 1,003,621; Sept. 19; Sp. p. 3131; Gaz. vol. 170; p. 565.
Brake and brake-liner. W. T. Bonner. No. 980,481; Jan. 3; Sp. p. 652; Gaz. vol. 162; p. 107.
Brake apparatus, Fluid-pressure. J. Reichmann. No. 991,801; May 9; Sp. p. 2076; Gaz. vol. 166; p. 372.
Brake attachment, Vehicle. C. H. Mickelsen. No. 1,010,941; Dec. 5; Sp. p. 1204; Gaz. vol. 173; p. 190.
Brake-band, Asbestos. L. R. Hoff. No. 997,818; July 11; Sp. p. 2613; Gaz. vol. 168; p. 448.
Brake-band, Asbestos. L. R. Hoff. No. 1,012,356; Dec. 19; Sp. p. 4392; Gaz. vol. 173; p. 752.

Brake-band lining. F. A. Headson. No. 997,498; July 11; Sp. p. 1860; Gaz. vol. 168; p. 336.
Brake-beam. C. E. Bauer and W. E. Fowler, Jr. No. 984,643; Feb. 21; Sp. p. 3033; Gaz. vol. 163; p. 537.
Brake-beam. E. L. White. No. 988,609; Apr. 4; Sp. p. 687; Gaz. vol. 165; p. 110.
Brake-beam. P. T. Handiges. No. 988,773; Apr. 4; Sp. p. 1039; Gaz. vol. 165; p. 166.
Brake-beam. B. Haskell. No. 989,780; Apr. 18; Sp. p. 3191; Gaz. vol. 165; p. 560.
Brake-beam. E. M. Applebaugh. No. 990,510; Apr. 25; Sp. p. 4844; Gaz. vol. 165; p. 844.
Brake-beam. W. E. Fowler, Jr. No. 990,855; May 2; Sp. p. 60; Gaz. vol. 166; p. 12.
Brake-beam. C. H. Williams, Jr. No. 990,938; May 2; Sp. p. 233; Gaz. vol. 166; p. 41.
Brake-beam. C. V. Marquart. No. 994,323; June 6; Sp. p. 455; Gaz. vol. 167; p. 78.
Brake-beam. W. D. Forsyth. No. 996,632; July 4; Sp. p. 81; Gaz. vol. 168; p. 15.
Brake-beam and fulcrum therefor. J. B. Simpson. No. 1,010,967; Dec. 5; Sp. p. 1254; Gaz. vol. 173; p. 198.
Brake-beam forged-steel fulcrum. P. T. Handiges. No. 980,517; Jan. 3; Sp. p. 749; Gaz. vol. 162; p. 120.
Brake-beam fulcrum. E. M. Applebaugh and J. D. Hockenbury. No. 983,799; Feb. 7; Sp. p. 1155; Gaz. vol. 163; p. 185.
Brake-beam fulcrum. N. S. Reeder. No. 995,181; June 13; Sp. p. 2360; Gaz. vol. 167; p. 409.
Brake-beam fulcrum. C. L. Schwartz. No. 1,001,173; Aug. 22; Sp. p. 4245; Gaz. vol. 169; p. 777.
Brake-beam fulcrums, Making. P. T. Handiges. No. 981,645; Jan. 17; Sp. p. 3291; Gaz. vol. 162; p. 559.
Brake-beam safety-support. D. M. Knox. No. 999,801; Aug. 8; Sp. p. 1206; Gaz. vol. 169; p. 237.
Brake-beams, Third suspension for. E. A. Le Beau. No. 990,889; May 2; Sp. p. 132; Gaz. vol. 166; p. 25.
Brake-beams, Third suspension for. C. H. Williams, Jr. No. 997,888; July 11; Sp. p. 2757; Gaz. vol. 168; p. 472.
Brake-beams, Third suspension for. W. F. Kiesel, Jr. No. 997,922; July 11; Sp. p. 2833; Gaz. vol. 168; p. 484.
Brake-block. G. S. MacLeod. No. 997,570; July 11; Sp. p. 2015; Gaz. vol. 168; p. 360.
Brake-block. L. Sanguinetti. No. 1,005,577; Oct. 10; Sp. p. 2232; Gaz. vol. 171; p. 384.
Brake block and holder. E. Jones. No. 994,845; June 13; Sp. p. 1654; Gaz. vol. 167; p. 296.
Brake-block holder. H. Evans. No. 992,948; May 23; Sp. p. 4550; Gaz. vol. 166; p. 832.
Brake-block, Refillable. J. H. Sheldon. No. 997,863; July 11; Sp. p. 2704; Gaz. vol. 168; p. 464.
Brake control, Electrodynamic-. J. D. Ihlder. No. 1,005,222; Oct. 10; Sp. p. 1397; Gaz. vol. 171; p. 256.
Brake controller, Dynamic-. C. T. Henderson. No. 1,002,687; Sept. 5; Sp. p. 1117; Gaz. vol. 170; p. 168.
Brake-controlling apparatus, Plunger-. W. D. Baldwin and F. C. Furlow. No. 981,909; Jan. 17; Sp. p. 3878; Gaz. vol. 162; p. 652.
Brake device, Fluid-pressure. E. A. Emery. No. 1,004,000; Sept. 26; Sp. p. 3984; Gaz. vol. 170; p. 721.
Brake-equalizer. H. L. Blunck. No. 1,007,057; Oct. 31; Sp. p. 5500; Gaz. vol. 171; p. 1016.
Brake-facing. C. J. Coleman. No. 993,031; May 23; Sp. p. 4725; Gaz. vol. 166; p. 860.
Brake for baby-carriages and the like. W. D. Woodier. No. 984,727; Feb. 21; Sp. p. 3213; Gaz. vol. 163; p. 568.
Brake-handle. W. S. Adams. No. 1,004,519; Sept. 26; Sp. p. 5108; Gaz. vol. 170; p. 899.
Brake-hanger. A. Christianson. No. 998,870; July 25; Sp. p. 4980; Gaz. vol. 168; p. 894.
Brake-hanger mounting. F. R. Cornwall. No. 989,339; Apr. 11; Sp. p. 2226; Gaz. vol. 165; p. 377.
Brake-hanger mounting. C. H. Williams, Jr. No. 989,887; Apr. 18; Sp. p. 3411; Gaz. vol. 165; p. 595.
Brake-head, Adjustable. P. T. Handiges. No. 980,516; Jan. 3; Sp. p. 748; Gaz. vol. 162; p. 119.
Brake-head, Adjustable. P. T. Handiges. No. 981,644; Jan. 17; Sp. p. 3290; Gaz. vol. 162; p. 559.
Brake-head, Adjustable. E. A. Le Beau. No. 990,888; May 2; Sp. p. 130; Gaz. vol. 166; p. 24.
Brake-head, Adjustable. P. T. Handiges. (Reissue.) No. 13,254; June 6; Sp. p. 1288; Gaz. vol. 167; p. 210.
Brake-head, Adjustable. C. F. Murray. No. 1,005,999; Oct. 17; Sp. p. 3134; Gaz. vol. 171; p. 563.
Brake-head, Adjustable. B. Conrath. No. 1,010,022; Nov. 28; Sp. p. 5265; Gaz. vol. 172; p. 944.
Brake-lever. J. H. McClaren. No. 987,310; Mar. 21; Sp. p. 3289; Gaz. vol. 164; p. 591.
Brake-lever. E. E. Kuehl. No. 1,012,371; Dec. 19; Sp. p. 4421; Gaz. vol. 173; p. 757.
Brake-lock. W. S. Bristol. No. 1,004,357; Sept. 26; Sp. p. 4771; Gaz. vol. 170; p. 843.
Brake-mast, Shifting. C. A. Lindström. No. 995,164; June 13; Sp. p. 2333; Gaz. vol. 167; p. 404.
Brake mechanism. G. S. Ackley. No. 983,596; Feb. 7; Sp. p. 744; Gaz. vol. 163; p. 116.
Brake mechanism. D. T. Fisher. No. 985,889; Mar. 7; Sp. p. 280; Gaz. vol. 164; p. 45.
Brake mechanism. E. A. Bole. No. 993,339; May 30; Sp. p. 5377; Gaz. vol. 166; p. 994.
Brake mechanism. R. C. Swartzwelder. No. 994,286; June 6; Sp. p. 379; Gaz. vol. 167; p. 65.
Brake mechanism. W. E. Coffin. No. 994,698; June 6; Sp. p. 1269; Gaz. vol. 167; p. 207.
Brake mechanism. G. S. Ackley. No. 1,002,551; Sept. 5; Sp. p. 823; Gaz. vol. 170; p. 121.
Brake mechanism. W. A. Green. No. 1,003,251; Sept. 12; Sp. p. 2353; Gaz. vol. 170; p. 404.
Brake mechanism, Friction. W. A. Barker. No. 983,668; Feb. 7; Sp. p. 892; Gaz. vol. 163; p. 142.
Brake mechanism, Friction. O. Crosby. No. 988,314; Apr. 4; Sp. p. 36; Gaz. vol. 165; p. 9.
Brake mechanism, Load-regulated. H. H. Forney and O. B. Schoenky. No. 1,000,593; Aug. 15; Sp. p. 2973; Gaz. vol. 169; p. 544.
Brake-operating device, Emergency-. A. Huntley. No. 998,519; July 18; Sp. p. 4169; Gaz. vol. 168; p. 737.
Brake-operating mechanism. W. W. Irwin. No. 986,826; Mar. 14; Sp. p. 2272; Gaz. vol. 164; p. 393.
Brake-pipe-vent-valve device. W. V. Turner. No. 1,012,757; Dec. 26; Sp. p. 5214; Gaz. vol. 173; p. 934.
Brake-rigging-adjusting apparatus. L. E. Oliver and A. Cureton. No. 1,002,433; Sept. 5; Sp. p. 576; Gaz. vol. 170; p. 82.
Brake-rod jaw. L. A. Hoerr. No. 983,901; Feb. 14; Sp. p. 1414; Gaz. vol. 163; p. 250.
Brake-rod jaw. L. A. Hoerr. No. 983,996; Feb. 14; Sp. p. 1637; Gaz. vol. 163; p. 282.
Brake-setting mechanism, Automatic. J. F. Reynolds. No. 986,407; Mar. 7; Sp. p. 1369; Gaz. vol. 164; p. 220.
Brake-setting mechanism, Automatic. G. H. Lowell. No. 993,261; May 23; Sp. p. 5203; Gaz. vol. 166; p. 933.
Brake-shoe. A. L. Streeter. No. 981,896; Jan. 17; Sp. p. 3839; Gaz. vol. 162; p. 648.
Brake-shoe. C. H. True. No. 992,297; May 16; Sp. p. 3149; Gaz. vol. 166; p. 573.
Brake-shoe. H. Jones. No. 995,014; June 13; Sp. p. 2024; Gaz. vol. 167; p. 354.
Brake-shoe. H. P. Wingert and H. Jones. No. 995,049; June 13; Sp. p. 2103; Gaz. vol. 167; p. 366.
Brake-shoe. H. Jones. No. 995,067; June 13; Sp. p. 2146; Gaz. vol. 167; p. 372.
Brake-shoe. H. Jones. No. 995,149; June 13; Sp. p. 2296; Gaz. vol. 167; p. 398.
Brake-shoe. J. J. Kinzer. No. 996,415; June 27; Sp. p. 5129; Gaz. vol. 167; p. 898.
Brake-shoe. F. T. Dickinson. No. 996,623; July 4; Sp. p. 60; Gaz. vol. 168; p. 11.
Brake-shoe. F. W. Sargent. No. 1,001,083; Aug. 22; Sp. p. 4085; Gaz. vol. 169; p. 749.
Brake-shoe. C. W. Armbrust. No. 1,002,480; Sept. 5; Sp. p. 680; Gaz. vol. 170; p. 99.
Brake-shoe. W. S. Thomas. No. 1,004,218; Sept. 26; Sp. p. 4507; Gaz. vol. 170; p. 797.
Brake-shoe. C. H. Smith. No. 1,004,596; Oct. 3; Sp. p. 104; Gaz. vol. 171; p. 18.
Brake-shoe. C. W. Armbrust. No. 1,010,008; Nov. 28; Sp. p. 5233; Gaz. vol. 172; p. 938.
Brake-shoe. C. W. Armbrust. No. 1,010,009; Nov. 28; Sp. p. 5234; Gaz. vol. 172; p. 938.
Brake-shoe. C. W. Armbrust. No. 1,010,010; Nov. 28; Sp. p. 5237; Gaz. vol. 172; p. 938.
Brake-shoe. C. W. Armbrust. No. 1,010,397; Nov. 28; Sp. p. 6021; Gaz. vol. 172; p. 1067.
Brake-shoe. C. W. Armbrust. No. 1,010,398; Nov. 28; Sp. p. 6024; Gaz. vol. 172; p. 1068.
Brake-shoe. T. McGarrigal. No. 1,011,982; Dec. 19; Sp. p. 3563; Gaz. vol. 173; p. 623.
Brake-shoe adjustment. L. Zink. No. 996,823; July 4; Sp. p. 458; Gaz. vol. 168; p. 76.
Brake-shoe backs, Cutting blanks for. H. Jones. No. 995,011; June 13; Sp. p. 2016; Gaz. vol. 167; p. 353.
Brake-shoe machine. F. K. Caswell. No. 1,003,231; Sept. 12; Sp. p. 2309; Gaz. vol. 170; p. 396.
Brake-shoe with cast-metal insert. H. Jones. No. 995,012; June 13; Sp. p. 2017; Gaz. vol. 167; p. 354.
Brake-shoe with corrugated and perforated insert. H. Jones. No. 995,013; June 13; Sp. p. 2022; Gaz. vol. 167; p. 354.
Brake-shoe with insert. D. Rawstrom. No. 999,258; Aug. 1; Sp. p. 130; Gaz. vol. 169; p. 24.
Brake-shoe with reinforced back. D. Rawstrom. No. 999,259; Aug. 1; Sp. p. 132; Gaz. vol. 169; p. 24.
Brake slack-adjuster. C. L. Bundy. No. 988,970; Apr. 11; Sp. p. 1419; Gaz. vol. 165; p. 251.
Brake slack-adjuster. J. Gullage. No. 994,385; June 6; Sp. p. 598; Gaz. vol. 167; p. 102.
Brake slack-adjuster. L. D. McElroy. No. 1,007,474; Oct. 31; Sp. p. 6408; Gaz. vol. 171; p. 1164.
Brake-staff. C. A. Lindström. No. 993,386; May 30; Sp. p. 5480; Gaz. vol. 166; p. 1009.
Brake-staff. F. L. Barber and E. W. Webb. No. 1,003,168; Sept. 12; Sp. p. 2166; Gaz. vol. 170; p. 372.
Brake system, Fluid-pressure. W. H. Sauvage. No. 1,012,720; Dec. 26; Sp. p. 5146; Gaz. vol. 173; p. 922.
Brake systems, Safety signal device for fluid-pressure. W. H. Sauvage. No. 1,001,084; Aug. 22; Sp. p. 4088; Gaz. vol. 169; p. 749.
Brakes, Means for applying vehicle-. J. H. Davis. No. 1,008,792; Nov. 14; Sp. p. 2631; Gaz. vol. 172; p. 441.

Alphabetical list of inventions—Continued.

Brakes, Pressure-control apparatus for fluid-pressure. W. V. Turner. No. 1,004,110; Sept. 26; Sp. p. 4268; Gaz. vol. 170; p. 761.
Braking apparatus. A. Sundh. No. 1,008,189; Nov. 7; Sp. p. 1156; Gaz. vol. 172; p. 190.
Braking apparatus, Vehicle. L. Boirault. No. 998,458; July 18; Sp. p. 4036; Gaz. vol. 168; p. 716.
Braking system for hoists, Safety dynamic. J. S. McKee and J. F. Schnabel. No. 982,284; Jan. 24; Sp. p. 4683; Gaz. vol. 162; p. 810.
Branding apparatus. L. H. Le Claire. No. 984,768; Feb. 21; Sp. p. 3306; Gaz. vol. 163; p. 583.
Branding device, Electric. J. A. Jordan. No. 1,006,756; Oct. 24; Sp. p. 4826; Gaz. vol. 171; p. 858.
Branding-iron. L. O. Thurman. No. 1,012,754; Dec. 26; Sp. p. 5209; Gaz. vol. 173; p. 933.
Brassière. C. R. De Bevoise. No. 997,046; July 4; Sp. p. 968; Gaz. vol. 168; p. 154.
Brazing or similar work, Apparatus for. C. R. Sturdevant. No. 1,000,456; Aug. 15; Sp. p. 2651; Gaz. vol. 169; p. 492.
Bread and other baked articles with a protective covering, Providing. H. Wilke. No. 1,010,103; Nov. 28; Sp. p. 5419; Gaz. vol. 172; p. 971.
Bread-cutter. J. Karhu. No. 993,173; May 23; Sp. p. 5023; Gaz. vol. 166; p. 907.
Bread-knife. E. J. Kyle. No. 1,012,659; Dec. 26; Sp. p. 5011; Gaz. vol. 173; p. 899.
Bread, Making diabetic. A. Pfeffer. No. 989,189; Apr. 11; Sp. p. 1882; Gaz. vol. 165; p. 327.
Bread-making machine. F. G. Bird. No. 999,089; July 25; Sp. p. 5456; Gaz. vol. 168; p. 971.
Bread-rack. J. S. Foltz. No. 1,010,036; Nov. 28; Sp. p. 5294; Gaz. vol. 172; p. 949.
Break-pin, Automatic locking. C. V. Kuller. No. 1,006,567; Oct. 24; Sp. p. 4455; Gaz. vol. 171; p. 795.
Breast-drill. A. Fox. No. 994,450; June 6; Sp. p. 714; Gaz. vol. 167; p. 122.
Breast-evacuator. H. F. Milligan. No. 986,738; Mar. 14; Sp. p. 2078; Gaz. vol. 164; p. 364.
Breast-supporter. M. Gabeau. No. 1,009,297; Nov. 21; Sp. p. 3739; Gaz. vol. 172; p. 651.
Breastpins, &c., Safety-catch for. C. Ferruggiari. No. 1,003,725; Sept. 19; Sp. p. 3362; Gaz. vol. 170; p. 601.
Breathing apparatus, Portable. A. B. Dräger. No. 1,005,816; Oct. 17; Sp. p. 2722; Gaz. vol. 171; p. 498.
Breathing-armor, Safety. G. Poe. No. 996,135; June 27; Sp. p. 4432; Gaz. vol. 167; p. 802.
Brewery-wastes, &c., Trough-drier for. F. E. Otto. No. 1,006,266; Oct. 17; Sp. p. 3743; Gaz. vol. 171; p. 658.
Brewing fermented beverages, Compound for use in. L. Stein. No. 981,325; Jan. 10; Sp. p. 2633; Gaz. vol. 162; p. 429.
Brewing, Preparation for use in. L. Wallerstein. No. 995,823; June 20; Sp. p. 3787; Gaz. vol. 167; p. 660.
Brick. J. B. Beshore. No. 1,003,693; Sept. 19; Sp. p. 3301; Gaz. vol. 170; p. 591.
Brick, Burning. J. Q. Bennett. No. 988,299; Apr. 4; Sp. p. 10; Gaz. vol. 165; p. 4.
Brick, Burning. J. H. Bach. No. 1,008,300; Nov. 14; Sp. p. 1435; Gaz. vol. 172; p. 268.
Brick-conveyer. W. Bomhoff. No. 1,011,019; Dec. 5; Sp. p. 1350; Gaz. vol. 173; p. 215.
Brick-drying plant. W. R. Martin. No. 1,011,465; Dec. 12; Sp. p. 2389; Gaz. vol. 173; p. 408.
Brick-facing, Metal. L. Sexton. No. 1,006,298; Oct. 17; Sp. p. 3820; Gaz. vol. 171; p. 669.
Brick-grapple. H. Weber. No. 995,830; June 20; Sp. p. 3800; Gaz. vol. 167; p. 662.
Brick-hacking system and apparatus. R. C. Penfield. No. 985,203; Feb. 28; Sp. p. 4203; Gaz. vol. 163; p. 765.
Brick-handling machine. R. C. Penfield. No. 999,519; Aug. 1; Sp. p. 643; Gaz. vol. 169; p. 111.
Brick-handling machine. W. H. Francis. No. 999,774; Aug. 8; Sp. p. 1144; Gaz. vol. 169; p. 227.
Brick-handling method and pallet. W. H. Francis. No. 1,005,013; Oct. 3; Sp. p. 973; Gaz. vol. 171; p. 162.
Brick-hauling device. A. O. Jones. No. 1,010,501; Dec. 5; Sp. p. 229; Gaz. vol. 173; p. 37.
Brick-holdfast. M. Abarno. No. 1,012,961; Dec. 26; Sp. p. 5722; Gaz. vol. 173; p. 1004.
Brick, Interlocking. P. Yengst. No. 989,467; Apr. 11; Sp. p. 2482; Gaz. vol. 165; p. 420.
Brick, Key and lock. S. S. Swift. No. 998,811; July 25; Sp. p. 4832; Gaz. vol. 168; p. 873.
Brick-kiln. J. Q. Bennett and R. A. Parry. No. 986,128; Mar. 7; Sp. p. 778; Gaz. vol. 164; p. 126.
Brick-machine. A. H. Olsen, C. Pedersen, and J. Andersen. No. 981,219; Jan. 10; Sp. p. 2416; Gaz. vol. 162; p. 391.
Brick-machine. A. S. Bacon. No. 994,560; June 6; Sp. p. 954; Gaz. vol. 167; p. 158.
Brick-machine. E. F. Wege. No. 996,175; June 27; Sp. p. 4569; Gaz. vol. 167; p. 816.
Brick-mold. E. F. Wege. No. 996,174; June 27; Sp. p. 4568; Gaz. vol. 167; p. 815.
Brick-molding machine. C. J. and F. Helm. No. 998,577; July 18; Sp. p. 4286; Gaz. vol. 168; p. 757.
Brick or block and wall construction. F. J. Arbogast. No. 997,596; July 11; Sp. p. 2064; Gaz. vol. 168; p. 369.
Brick-press. H. J. Flood. No. 985,153; Feb. 28; Sp. p. 4098; Gaz. vol. 163; p. 746.
Brick-press. H. J. Flood. No. 987,124; Mar. 21; Sp. p. 2841; Gaz. vol. 164; p. 524.
Brick-press. J. R. Tackett. No. 997,162; July 4; Sp. p. 1201; Gaz. vol. 168; p. 194.
Brick-stacker. H. Weber. No. 991,254; May 2; Sp. p. 910; Gaz. vol. 166; p. 154.
Brick, tile, &c. C. B. Lawton. No. 997,303; July 11; Sp. p. 1491; Gaz. vol. 168; p. 272.
Bricks, Machine for making hollow. I. W. Brison and J. A. Hunter. No. 981,839; Jan. 17; Sp. p. 3709; Gaz. vol. 162; p. 627.
Bricks, System and apparatus for hacking. R. C. Penfield. (Reissue.) No. 13,256; June 6; Sp. p. 1295; Gaz. vol. 167; p. 213.
Bricklaying-machine. M. Falcone. No. 994,506; June 6; Sp. p. 832; Gaz. vol. 167; p. 139.
Brickmaking-machine. P. J. Mead. No. 986,584; Mar. 14; Sp. p. 1757; Gaz. vol. 164; p. 311.
Brickmaking-machine. J. McLaughlin. No. 995,622; June 20; Sp. p. 3344; Gaz. vol. 167; p. 589.
Brickmaking-machine. C. S. Estes and J. P. B. Fiske. No. 1,002,976; Sept. 12; Sp. p. 1772; Gaz. vol. 170; p. 307.
Brickmaking-machine. C. H. Frost. No. 1,004,406; Sept. 26; Sp. p. 4866; Gaz. vol. 170; p. 860.
Brickmaking-machine marker. G. W. Rathfon. No. 1,004,818; Oct. 3; Sp. p. 577; Gaz. vol. 171; p. 95.
Brickmaking machinery. D. Strickland. No. 1,012,290; Dec. 19; Sp. p. 4254; Gaz. vol. 173; p. 731.
Bridge. J. B. Strauss. No. 995,813; June 20; Sp. p. 3766; Gaz. vol. 167; p. 657.
Bridge. W. H. Jones. No. 998,523; July 18; Sp. p. 4174; Gaz. vol. 168; p. 738.
Bridge. J. A. Lynch. No. 1,007,299; Oct. 31; Sp. p. 6047; Gaz. vol. 171; p. 1103.
Bridge, Concrete arch-. C. A. P. Turner. No. 1,002,944; Sept. 12; Sp. p. 1717; Gaz. vol. 170; p. 297.
Bridge, Pontoon-. C. A. Forssell. No. 981,991; Jan. 17; Sp. p. 4076; Gaz. vol. 162; p. 680.
Bridge safety-gate. C. Faust. No. 1,007,190; Oct. 31; Sp. p. 5833; Gaz. vol. 171; p. 1065.
Bridge-score, Pocket. H. W. Bennet. No. 986,675; Mar. 14; Sp. p. 1950; Gaz. vol. 164; p. 344.
Bridge score-sheet, Pivot-. A. N. Gardiner. No. 998,167; July 18; Sp. p. 3394; Gaz. vol. 168; p. 612.
Bridge, Short-span flat-slab. C. A. P. Turner. No. 1,002,945; Sept. 12; Sp. p. 1718; Gaz. vol. 170; p. 297.
Bridge, Transfer or float. J. B. French. No. 983,617; Feb. 7; Sp. p. 779; Gaz. vol. 163; p. 123.
Bridge, Trunnion bascule-. A. F. L. von Babo. No. 1,001,800; Aug. 29; Sp. p. 5558; Gaz. vol. 169; p. 1020.
Bridges and the like, Means for operating. D. H. Haywood. No. 980,522; Jan. 3; Sp. p. 758; Gaz. vol. 162; p. 122.
Bridges, Fluid-conduit for lift-. J. L. Harrington. No. 1,003,901; Sept. 19; Sp. p. 3701; Gaz. vol. 170; p. 659.
Bridges, Pillar for. C. A. Forssell. No. 988,764; Apr. 4; Sp. p. 1026; Gaz. vol. 165; p. 163.
Bridle. J. Wilson. No. 987,420; Mar. 21; Sp. p. 3511; Gaz. vol. 164; p. 628.
Bridle. O. Billey. No. 996,556; June 27; Sp. p. 5389; Gaz. vol. 167; p. 943.
Bridle attachment. I. Allison. No. 999,081; July 25; Sp. p. 5443; Gaz. vol. 168; p. 968.
Bridle attachment. E. M. Bretz. No. 1,005,932; Oct. 17; Sp. p. 3003; Gaz. vol. 171; p. 541.
Bridle-bit. G. E. Biggart. No. 989,479; Apr. 11; Sp. p. 2504; Gaz. vol. 165; p. 424.
Bridle-bit. L. Harvey. No. 992,961; May 23; Sp. p. 4588; Gaz. vol. 166; p. 836.
Bridle-bit. I. S. Martin. No. 993,608; May 30; Sp. p. 5962; Gaz. vol. 166; p. 1085.
Bridle-bit. J. C. Fate. No. 994,732; June 13; Sp. p. 1380; Gaz. vol. 167; p. 258.
Bridle-bit. D. S. Gallatin. No. 1,004,769; Oct. 3; Sp. p. 482; Gaz. vol. 171; p. 79.
Bridle-bit. J. T. Smith. No. 1,012,464; Dec. 19; Sp. p. 4592; Gaz. vol. 173; p. 787.
Bridle, Bitless guiding-. D. R. Porter. No. 1,008,365; Nov. 14; Sp. p. 1629; Gaz. vol. 172; p. 292.
Bridle-blinker. C. C. Krouse. No. 996,931; July 4; Sp. p. 686; Gaz. vol. 168; p. 113.
Bridle, Safety-. D. Reed. No. 982,159; Jan. 17; Sp. p. 4395; Gaz. vol. 162; p. 736.
Brine-heating surfaces, Means for removing incrustations of calcium sulfate from. H. Frasch. No. 1,006,197; Oct. 17; Sp. p. 3598; Gaz. vol. 171; p. 634.
Brine-making machine. A. W. Davis. No. 990,476; Apr. 25; Sp. p. 4730; Gaz. vol. 165; p. 831.
Brine, Treatment of. G. W. Malcolm and F. T. Munton. No. 1,012,387; Dec. 19; Sp. p. 4449; Gaz. vol. 173; p. 762.
Briquet. C. T. Malcolmson. No. 1,012,676; Dec. 26; Sp. p. 5040; Gaz. vol. 173; p. 905.
Briquet and making same. A. Zindler. No. 1,000,479; Aug. 15; Sp. p. 2702; Gaz. vol. 169; p. 501.
Briquet-machine, Rotary. C. De Lukacsevics. No. 1,004,050; Sept. 26; Sp. p. 4114; Gaz. vol. 170; p. 739.

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Briquet machinery, Rotary. C. De Lukacsevics. No. 1,004,049; Sept. 26; Sp. p. 4112; Gaz. vol. 170; p. 739.
Briquet-material mixer and drier. E. Fernholtz. No. 994,991; June 13; Sp. p. 1977; Gaz. vol. 167; p. 346.
Briquet-press. J. J. Shedlock. No. 1,000,204; Aug. 8; Sp. p. 2102; Gaz. vol. 169; p. 374.
Briquets for metallurgical or other purposes, Manufacture of. W. F. Collins. No. 982,796; Jan. 31; Sp. p. 5749; Gaz. vol. 162; p. 1013.
Briquets, Making. W. D. Ryan. No. 1,003,296; Sept. 12; Sp. p. 2438; Gaz. vol. 170; p. 420.
Briqueting and pressing material. A. Rónay. No. 1,002,453; Sept. 5; Sp. p. 617; Gaz. vol. 170; p. 89.
Briqueting apparatus. M. C. White and O. C. Duryea. No. 980,374; Jan. 3; Sp. p. 393; Gaz. vol. 162; p. 69.
Briqueting-presses, Means for filling the molds of. J. Leflaive. No. 1,000,824; Aug. 15; Sp. p. 3460; Gaz. vol. 169; p. 624.
Briqueting, pressing, or brickmaking machine. D. L. Fawcett. No. 1,004,399; Sept. 26; Sp. p. 4856; Gaz. vol. 170; p. 858.
Bristles, Production of artificial. B. Borzykowski. No. 1,010,222; Nov. 28; Sp. p. 5647; Gaz. vol. 172; p. 1011.
Broach. E. Slapak. No. 995,809; June 20; Sp. p. 3756; Gaz. vol. 167; p. 655.
Broaching-machine. W. H. Thiemer. No. 988,154; Mar. 28; Sp. p. 5110; Gaz. vol. 164; p. 906.
Broiler. E. I. Bryan. No. 994,056; May 30; Sp. p. 6893; Gaz. vol. 166; p. 1238.
Broiler. B. McCaughey. No. 994,176; June 6; Sp. p. 150; Gaz. vol. 167; p. 26.
Broiler. H. B. Miller. No. 1,006,254; Oct. 17; Sp. p. 3724; Gaz. vol. 171; p. 654.
Broiler. L. F. Betts. No. 1,007,323; Oct. 31; Sp. p. 6102; Gaz. vol. 171; p. 1112.
Broiler. C. G. Cronwall. No. 1,010,026; Nov. 28; Sp. p. 5273; Gaz. vol. 172; p. 945.
Broiler. H. Noreck. No. 1,010,169; Nov. 28; Sp. p. 5543; Gaz. vol. 172; p. 993.
Broiler. J. W. Taylor. No. 1,010,981; Dec. 5; Sp. p. 1281; Gaz. vol. 173; p. 203.
Broiler-gridiron. C. W. Shields. No. 982,771; Jan. 24; Sp. p. 5689; Gaz. vol. 162; p. 975.
Broiler or waffle-baker. L. Fey. No. 1,004,401; Sept. 26; Sp. p. 4868; Gaz. vol. 170; p. 859.
Broiler, Rotary. W. Doll. No. 980,501; Jan. 3; Sp. p. 709; Gaz. vol. 162; p. 114.
Broiler-support. G. A. Glass. No. 1,006,746; Oct. 24; Sp. p. 4809; Gaz. vol. 171; p. 855.
Broiling-frame. B. McCaughey. No. 995,270; June 13; Sp. p. 2533; Gaz. vol. 167; p. 438.
Bromids, Manufacturing. H. H. Dow. No. 997,972; July 18; Sp. p. 2962; Gaz. vol. 168; p. 543.
Bromodiethylacetylurea. J. Callsen. No. 983,425; Feb. 7; Sp. p. 353; Gaz. vol. 163; p. 59.
Bronzing-machine. A. J. Ford. No. 1,008,129; Nov. 7; Sp. p. 1031; Gaz. vol. 172; p. 168.
Brooch. J. E. Sullivan. No. 1,003,216; Sept. 12; Sp. p. 2271; Gaz. vol. 170; p. 390.
Brooch-fastener. L. Hartoch. No. 992,659; May 16; Sp. p. 3920; Gaz. vol. 166; p. 699.
Brooch or belt-pin keeper. C. B. Reed. No. 996,677; July 4; Sp. p. 163; Gaz. vol. 168; p. 29.
Brooch-pin tongues, Guard for. H. Grasmuk. No. 986,381; Mar. 7; Sp. p. 1315; Gaz. vol. 164; p. 212.
Brooches, breastpins, &c., Safety-catch for. E. P. Happich. No. 985,527; Feb. 28; Sp. p. 4947; Gaz. vol. 163; p. 876.
Brooder. H. Hubenbecker. No. 980,266; Jan. 3; Sp. p. 164; Gaz. vol. 162; p. 32.
Brooder. E. E. Poston. No. 981,942; Jan. 17; Sp. p. 3977; Gaz. vol. 162; p. 663.
Brooder. J. A. Connolly. No. 983,481; Feb. 7; Sp. p. 485; Gaz. vol. 163; p. 77.
Brooder. J. B. Thompson. No. 988,747; Apr. 4; Sp. p. 982; Gaz. vol. 165; p. 156.
Brooder. J. B. Coykendall. No. 1,007,271; Oct. 31; Sp. p. 5992; Gaz. vol. 171; p. 1094.
Brooder. I. J. Ploughe. No. 1,009,567; Nov. 21; Sp. p. 4332; Gaz. vol. 172; p. 745.
Brooder, Fireless. C. A. Dysle. No. 981,986; Jan. 17; Sp. p. 4066; Gaz. vol. 162; p. 678.
Brooder, Fireless. J. E. Stenzel. No. 996,291; June 27; Sp. p. 4814; Gaz. vol. 167; p. 853.
Brooder for young chickens, Self-ventilating. H. B. Young. No. 982,196; Jan. 17; Sp. p. 4464; Gaz. vol. 162; p. 748.
Brooder-heater. C. Miedel. No. 995,887; June 20; Sp. p. 3930; Gaz. vol. 167; p. 681.
Brooder-heating apparatus. W. B. McMeans. No. 982,155; Jan. 17; Sp. p. 4390; Gaz. vol. 162; p. 735.
Brooder, Poultry-. R. A. Ruff. No. 1,005,886; Oct. 17; Sp. p. 2888; Gaz. vol. 171; p. 524.
Broom. J. S. Holcombe. No. 999,307; Aug. 1; Sp. p. 218; Gaz. vol. 169; p. 41.
Broom-bridle. E. F. Meyer. No. 998,255; July 18; Sp. p. 3588; Gaz. vol. 168; p. 644.
Broom-bridle. H. T. Hileman. No. 1,009,147; Nov. 21; Sp. p. 3368; Gaz. vol. 172; p. 596.
Broom-corn header. R. J. Churchill. No. 980,203; Jan. 3; Sp. p. 56; Gaz. vol. 162; p. 11.
Broom-corn holder. J. R. Douglass. No. 982,941; Jan. 31; Sp. p. 6082; Gaz. vol. 162; p. 1062.
Broom-corn knife. P. Stewart. No. 998,046; July 18; Sp. p. 3132; Gaz. vol. 168; p. 570.
Broom-corn knife. E. A. Peterson. No. 998,118; July 18; Sp. p. 3307; Gaz. vol. 168; p. 596.
Broom-corn press. J. J. Faucher. No. 983,128; Jan. 31; Sp. p. 6470; Gaz. vol. 162; p. 1125.
Broom-guard. F. M. Reynolds. No. 999,591; Aug. 1; Sp. p. 785; Gaz. vol. 169; p. 136.
Broom-handle. G. W. Irick and C. T. Wolford. No. 986,294; Mar. 7; Sp. p. 1114; Gaz. vol. 164; p. 179.
Broom-handle. C. E. Gross. No. 987,981; Mar. 28; Sp. p. 4763; Gaz. vol. 164; p. 849.
Broom-handle holder. A. Bibauw. No. 993,220; May 23; Sp. p. 5117; Gaz. vol. 166; p. 922.
Broom-hanger. A. J. Mackey. No. 981,777; Jan. 17; Sp. p. 3563; Gaz. vol. 162; p. 605.
Broom-holder. C. E. King. No. 981,659; Jan. 17; Sp. p. 3314; Gaz. vol. 162; p. 563.
Broom-holder. T. Sulikx. No. 987,505; Mar. 21; Sp. p. 3677; Gaz. vol. 164; p. 656.
Broom-holder. E. Richards. No. 994,790; June 13; Sp. p. 1511; Gaz. vol. 167; p. 278.
Broom-holder. F. E. Cross. No. 1,002,566; Sept. 5; Sp. p. 865; Gaz. vol. 170; p. 127.
Broom holding and displaying device. E. G. Druding. No. 985,017; Feb. 21; Sp. p. 3774; Gaz. vol. 163; p. 666.
Broom-making machine. H. E. Smith and N. H. Beebe. No. 990,072; Apr. 18; Sp. p. 3799; Gaz. vol. 165; p. 658.
Broom-support. R. W. Ball. No. 1,008,104; Nov. 7; Sp. p. 983; Gaz. vol. 172; p. 158.
Brooms, mops, &c., Holder for. E. W. Davis. No. 991,486; May 9; Sp. p. 1409; Gaz. vol. 166; p. 265.
Brown shades on the fiber, Production of. H. Schmid. No. 1,011,085; Dec. 5; Sp. p. 1500; Gaz. vol. 173; p. 237.
Brown to violet to black shades, Production of. H. Schmid. No. 1,011,084; Dec. 5; Sp. p. 1498; Gaz. vol. 173; p. 237.
Brush. J. Kennedy. No. 984,930; Feb. 21; Sp. p. 3606; Gaz. vol. 163; p. 636.
Brush. A. D. Cardinet. No. 985,779; Mar. 7; Sp. p. 25; Gaz. vol. 164; p. 7.
Brush. J. F. Bowditch. No. 986,679; Mar. 14; Sp. p. 1956; Gaz. vol. 164; p. 344.
Brush. A. J. Brady. No. 988,075; Mar. 28; Sp. p. 4970; Gaz. vol. 164; p. 881.
Brush. A. H. Ackerman. No. 991,124; May 2; Sp. p. 629; Gaz. vol. 166; p. 107.
Brush. G. F. Green and A. W. Lawrence. No. 998,500; July 18; Sp. p. 4125; Gaz. vol. 168; p. 731.
Brush. A. W. Redin. No. 1,003,650; Sept. 19; Sp. p. 3189; Gaz. vol. 170; p. 574.
Brush. G. R. Penn. No. 1,003,942; Sept. 19; Sp. p. 3843; Gaz. vol. 170; p. 674.
Brush. T. Ferry. No. 1,006,741; Oct. 24; Sp. p. 4796; Gaz. vol. 171; p. 853.
Brush. J. J. Brandstetter. No. 1,007,328; Oct. 31; Sp. p. 6110; Gaz. vol. 171; p. 1113.
Brush. E. Segel. No. 1,007,739; Nov. 7; Sp. p. 183; Gaz. vol. 172; p. 31.
Brush. H. P. McMillan. No. 1,009,082; Nov. 21; Sp. p. 3249; Gaz. vol. 172; p. 574.
Brush and broom bridle. J. W. Kohn. No. 988,474; Apr. 4; Sp. p. 395; Gaz. vol. 165; p. 63.
Brush and mop holder. A. Fischer. No. 986,155; Mar. 7; Sp. p. 826; Gaz. vol. 164; p. 134.
Brush and mop holder, Combined. J. O. Beazley. No. 1,001,239; Aug. 22; Sp. p. 4390; Gaz. vol. 169; p. 798.
Brush and operating means therefor, Bath-. I. Robinson. No. 992,905; May 23; Sp. p. 4454; Gaz. vol. 166; p. 816.
Brush and paste-tube holder, Combined tooth-. H. J. Lebherz. No. 1,005,985; Oct. 17; Sp. p. 3111; Gaz. vol. 171; p. 559.
Brush and roots from woodland, Device for cleaning. J. L. Musser. No. 1,002,740; Sept. 5; Sp. p. 1257; Gaz. vol. 170; p. 187.
Brush, Bath-. R. C. Button. No. 1,011,115; Dec. 5; Sp. p. 1572; Gaz. vol. 173; p. 249.
Brush-boring machine. P. Meyer. No. 1,003,486; Sept. 19; Sp. p. 2825; Gaz. vol. 170; p. 516.
Brush, Combination-. A. Schiebel. No. 1,012,281; Dec. 19; Sp. p. 4237; Gaz. vol. 173; p. 727.
Brush-cutter. R. G. Mitchell. No. 1,001,211; Aug. 22; Sp. p. 4336; Gaz. vol. 169; p. 789.
Brush, Detachable. J. J. Pokorney. No. 993,617; May 30; Sp. p. 5989; Gaz. vol. 166; p. 1089.
Brush, Dusting-. E. S. Winn. No. 983,965; Feb. 14; Sp. p. 1543; Gaz. vol. 163; p. 271.
Brush-filling machine. J. W. Bradshaw. No. 980,192; Jan. 3; Sp. p. 25; Gaz. vol. 162; p. 7.
Brush-filling machine. O. B. Hoover and M. Curry. No. 985,806; Mar. 7; Sp. p. 77; Gaz. vol. 164; p. 17.
Brush, Folding tooth-. S. B. Ljutica. No. 1,006,857; Oct. 24; Sp. p. 5076; Gaz. vol. 171; p. 895.
Brush for bronzing, gilding, and the like, Buffing-. B. McGinty. No. 992,227; May 16; Sp. p. 2982; Gaz. vol. 166; p. 549.
Brush, Fountain-. L. J. Mahler. No. 986,926; Mar. 14; Sp. p. 2478; Gaz. vol. 164; p. 429.

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Brush, Fountain-. J. T. Coleman. No. 995,769; June 20; Sp. p. 3676; Gaz. vol. 167; p. 641.
Brush, Fountain-. W. L. Peeler. No. 1,000,937; Aug. 15; Sp. p. 3703; Gaz. vol. 169; p. 663.
Brush, Fountain-. A. D. Cardinet. No. 1,001,617; Aug. 29; Sp. p. 5160; Gaz. vol. 169; p. 956.
Brush, Fountain-. A. M. and S. F. Goodwin. No. 1,002,673; Sept. 5; Sp. p. 1084; Gaz. vol. 170; p. 163.
Brush, Fountain-. S. Stewart. No. 1,003,159; Sept. 12; Sp. p. 2247; Gaz. vol. 170; p. 369.
Brush, Fountain-. J. B. Fesler. No. 1,006,641; Oct. 24; Sp. p. 4600; Gaz. vol. 171; p. 820.
Brush, Fountain-. P. B. Ruch. No. 1,007,492; Oct. 31; Sp. p. 6461; Gaz. vol. 171; p. 1170.
Brush, Fountain blacking-. B. M. Terzian and W. Hughes. No. 1,004,936; Oct. 3; Sp. p. 838; Gaz. vol. 171; p. 136.
Brush, Fountain blacking-. B. H. Wike. No. 1,006,993; Oct. 24; Sp. p. 5362; Gaz. vol. 171; p. 941.
Brush, Fountain marking-. C. W. Howe. No. 983,999; Feb. 14; Sp. p. 1640; Gaz. vol. 163; p. 283.
Brush, Hair-drying. K. Steen. No. 980,363; Jan. 3; Sp. p. 374; Gaz. vol. 162; p. 66.
Brush, Hair-drying. S. Taylor. No. 990,314; Apr. 25; Sp. p. 4365; Gaz. vol. 165; p. 773.
Brush-handle. C. V. Anderson. No. 1,009,883; Nov. 28; Sp. p. 4963; Gaz. vol. 172; p. 896.
Brush head and handle, Detachable. A. Kennedy. No. 980,533; Jan. 3; Sp. p. 782; Gaz. vol. 162; p. 125.
Brush-holder. L. H. Sparks. No. 985,951; Mar. 7; Sp. p. 415; Gaz. vol. 164; p. 66.
Brush-holder. R. E. Noble and L. E. Mitchell. No. 990,492; Apr. 25; Sp. p. 4789; Gaz. vol. 165; p. 837.
Brush-holder. G. Knieriemen. No. 999,658; Aug. 1; Sp. p. 905; Gaz. vol. 169; p. 158.
Brush-holder. D. B. Wing. No. 1,004,613; Oct. 3; Sp. p. 141; Gaz. vol. 171; p. 25.
Brush-holder support. C. T. Crocker. No. 996,218; June 27; Sp. p. 4651; Gaz. vol. 167; p. 830.
Brush holder, Tooth-. J. A. McGrath. No. 997,402; July 11; Sp. p. 1679; Gaz. vol. 168; p. 305.
Brush, Horse-. H. R. Danielson. No. 987,967; Mar. 28; Sp. p. 4738; Gaz. vol. 164; p. 845.
Brush-knife. C. M. Tooley. No. 984,401; Feb. 14; Sp. p. 2475; Gaz. vol. 163; p. 419.
Brush, Liquid-distributing. T. D. Roche. No. 980,678; Jan. 3; Sp. p. 1094; Gaz. vol. 162; p. 174.
Brush-machine. W. N. Hunter. No. 995,788; June 20; Sp. p. 3712; Gaz. vol. 167; p. 647.
Brush-machine. G. S. Murdock. No. 1,001,550; Aug. 22; Sp. p. 5005; Gaz. vol. 169; p. 903.
Brush, Magazine tooth-. H. Moran. No. 995,626; June 20; Sp. p. 3351; Gaz. vol. 167; p. 590.
Brush-making machine. M. Young and H. J. Lebherz. No. 982,340; Jan. 24; Sp. p. 4785; Gaz. vol. 162; p. 829.
Brush-making machine. S. R. Mason. No. 1,000,422; Aug. 15; Sp. p. 2585; Gaz. vol. 169; p. 481.
Brush, Massage-. B. D. Knickerbocker. No. 1,012,653; Dec. 26; Sp. p. 5000; Gaz. vol. 173; p. 897.
Brush or dauber, Fountain. H. F. Stubenrauch. No. 1,007,816; Nov. 7; Sp. p. 376; Gaz. vol. 172; p. 59.
Brush-pulling machine, Sage-. F. R. Laune. No. 995,356; June 13; Sp. p. 2733; Gaz. vol. 167; p. 467.
Brush, Reservoir-. F. W. Domalski. No. 1,010,129; Nov. 28; Sp. p. 5471; Gaz. vol. 172; p. 980.
Brush, Rotary. R. Radinse. No. 988.506; Apr. 4; Sp. p. 456; Gaz. vol. 165; p. 74.
Brush, Screen-door fly-. A. B. Paul. No. 995,896; June 20; Sp. p. 3945; Gaz. vol. 167; p. 684.
Brush, Self-feeding shaving-. D. H. Hawes. No. 1,007,949; Nov. 7; Sp. p. 685; Gaz. vol. 172; p. 106.
Brush, Separable. C. A. Wallace, C. T. Porter, and W. A. Dillon. No. 996,957; July 4; Sp. p. 745; Gaz. vol. 168; p. 122.
Brush, Separable tooth-. A. L. Bonin. No. 998,744; July 25; Sp. p. 4697; Gaz. vol. 168; p. 850.
Brush, Shaving-. J. P. Wright. No. 987,277; Mar. 21; Sp. p. 3217; Gaz. vol. 164; p. 580.
Brush, Shaving-. H. V. Hardman. No. 1,001,757; Aug. 29; Sp. p. 5468; Gaz. vol. 169; p. 1005.
Brush, Shaving-. W. J. Rowley and J. G. Albright. No. 1,009,583; Nov. 21; Sp. p. 4358; Gaz. vol. 172; p. 750.
Brush, Spray-. E. M. Crawford. No. 998,874; July 25; Sp. p. 4988; Gaz. vol. 168; p. 895.
Brush-stapling machine. G. S. Murdock. No. 983,924; Feb. 14; Sp. p. 1464; Gaz. vol. 163; p. 258.
Brush, Tooth-. L. L. Funk. No. 986,051; Mar. 7; Sp. p. 635; Gaz. vol. 164; p. 102.
Brush, Tooth-. J. Orthwein. No. 991,798; May 9; Sp. p. 2073; Gaz. vol. 166; p. 372.
Brush, Tooth-. H. Weinstein. No. 993,006; May 23; Sp. p. 4670; Gaz. vol. 166; p. 852.
Brush, Tooth-. J. J. Witman. No. 993,629; May 30; Sp. p. 6012; Gaz. vol. 166; p. 1093.
Brush, Tooth-. J. Mosby. No. 1,007,042; Oct. 24; Sp. p. 5460; Gaz. vol. 171; p. 957.
Brush, Tooth-. J. Gaynor. No. 1,007,090; Oct. 31; Sp. p. 5588; Gaz. vol. 171; p. 1027.
Brush, Tooth-. E. S. Goldy. No. 1,007,864; Nov. 7; Sp. p. 505; Gaz. vol. 172; p. 76.
Brush, Tooth-. E. G. Hubbel, Jr. No. 1,013,089; Dec. 26; Sp. p. 5991; Gaz. vol. 173; p. 1048.
Brush, Wire. F. Martin. No. 998,022; July 18; Sp. p. 3080; Gaz. vol. 168; p. 561.
Brush, Wire. F. Martin. No. 999,820; Aug. 8; Sp. p. 1238; Gaz. vol. 169; p. 242.
Brush, Wire. O. Olson. No. 1,009,335; Nov. 21; Sp. p. 3817; Gaz. vol. 172; p. 665.
Brushes, Bearing for traveling. T. B. Chisholm. No. 999,748; Aug. 8; Sp. p. 1105; Gaz. vol. 169; p. 219.
Brushes, Making. G. A. Vickery. No. 997,346; July 11; Sp. p. 1586; Gaz. vol. 168; p. 287.
Brushing-machine. J. F. Fromm. No. 985,521; Feb. 28; Sp. p. 4932; Gaz. vol. 163; p. 874.
Brushing or polishing machine. C. B. McCoy. No. 990,663; Apr. 25; Sp. p. 5160; Gaz. vol. 165; p. 894.
Bucket. G. M. Bennett. No. 989,688; Apr. 18; Sp. p. 2996; Gaz. vol. 165; p. 527.
Bucket. J. L. Butler. No. 989,832; Apr. 18; Sp. p. 3310; Gaz. vol. 165; p. 578.
Bucket. T. M. Wakefield. No. 991,397; May 2; Sp. p. 1218; Gaz. vol. 166; p. 203.
Bucket, Automatic dumping-. F. R. McCune. No. 994,859; June 13; Sp. p. 1683; Gaz. vol. 167; p. 302.
Bucket, Bottom-door dump-. G. Focht. No. 985,578; Feb. 28; Sp. p. 5057; Gaz. vol. 163; p. 893.
Bucket, Bottom-dumping. G. L. Stuebner. No. 986,100; Mar. 7; Sp. p. 730; Gaz. vol. 164; p. 118.
Bucket, Bottom-dumping. G. L. Stuebner. No. 986,101; Mar. 7; Sp. p. 732; Gaz. vol. 164; p. 118.
Bucket, Bottom-dumping. G. L. Stuebner. No. 1,010,325; Nov. 28; Sp. p. 5862; Gaz. vol. 172; p. 1044.
Bucket, Bottom-dumping hoisting-. A. N. Doud. No. 1,005,618; Oct. 10; Sp. p. 2309; Gaz. vol. 171; p. 398.
Bucket, Clam-shell. N. P. E. Andersen. No. 985,317; Feb. 28; Sp. p. 4462; Gaz. vol. 163; p. 803.
Bucket, Clam-shell. P. A. Orton. No. 1,000,839; Aug. 15; Sp. p. 3497; Gaz. vol. 169; p. 629.
Bucket, Clam-shell. C. J. McMyler. No. 1,007,129; Oct. 31; Sp. p. 5686; Gaz. vol. 171; p. 1042.
Bucket, Clam-shell. J. McMyler. No. 1,007,130; Oct. 31; Sp. p. 5687; Gaz. vol. 171; p. 1043.
Bucket, Clam-shell. R. W. Kaltenbach. No. 1,010,634; Dec. 5; Sp. p. 524; Gaz. vol. 173; p. 82.
Bucket, Clam-shell grab-. A. N. Doud. No. 1,007,023; Oct. 24; Sp. p. 5419; Gaz. vol. 171; p. 950.
Bucket, Coal-. J. C. Burgess. No. 1,003,583; Sept. 19; Sp. p. 3055; Gaz. vol. 170; p. 551.
Bucket, Concrete-. W. D. Lockwood. No. 992,724; May 16; Sp. p. 4047; Gaz. vol. 166; p. 723.
Bucket, Convertible hoist-. C. J. Samuelson. No. 1,007,736; Nov. 7; Sp. p. 179; Gaz. vol. 172; p. 30.
Bucket, Crane-. J. A. Roberts. No. 987,492; Mar. 21; Sp. p. 3657; Gaz. vol. 164; p. 652.
Bucket-cutting machine. J. Riddell. No. 1,006,280; Oct. 17; Sp. p. 3784; Gaz. vol. 171; p. 664.
Bucket-cutting machine, Universal. J. Riddell. No. 1,006,279; Oct. 17; Sp. p. 3773; Gaz. vol. 171; p. 663.
Bucket, Dumping-. G. L. Stuebner. No. 999,903; Aug. 8; Sp. p. 1425; Gaz. vol. 169; p. 271.
Bucket for transporting plastic material. C. L. Bartlett. No. 1,005,138; Oct. 10; Sp. p. 1202; Gaz. vol. 171; p. 226.
Bucket, Fruit-picker's. J. T. Compton. No. 1,012,602; Dec. 26; Sp. p. 4880; Gaz. vol. 173; p. 879.
Bucket, Grab-. O. W. Callahan. No. 997,748; July 11; Sp. p. 2433; Gaz. vol. 168; p. 424.
Bucket, Grab-. A. Walcher and H. M. Plaisted. No. 1,010,331; Nov. 28; Sp. p. 5877; Gaz. vol. 172; p. 1046.
Bucket-handle. T. J. King. No. 1,005,556; Oct. 10; Sp. p. 2165; Gaz. vol. 171; p. 377.
Bucket holder, Paint-. A. Anderson. No. 989,104; Apr. 11; Sp. p. 1706; Gaz. vol. 165; p. 298.
Bucket, Milk-. T. H. Barnes. No. 983,473; Feb. 7; Sp. p. 467; Gaz. vol. 163; p. 74.
Bucket, Pump-. D. J. Dowling. No. 998,678; July 25; Sp. p. 4524; Gaz. vol. 168; p. 825.
Bucket, Scraper-. J. F. Hewitt. No. 1,006,848; Oct. 24; Sp. p. 5059; Gaz. vol. 171; p. 892.
Bucket, Self-dumping fruit-. J. W. Moore. No. 994,771; June 13; Sp. p. 1479; Gaz. vol. 167; p. 272.
Bucket, Turbine-. E. H. Farquhar. No. 1,003,892; Sept. 19; Sp. p. 3687; Gaz. vol. 170; p. 656.
Bucket, Vented valved funnel-. F. E. Browne. No. 989,113; Apr. 11; Sp. p. 1725; Gaz. vol. 165; p. 300.
Bucket, Well-. C. B. Fleet. No. 984,656; Feb. 21; Sp. p. 3059; Gaz. vol. 163; p. 541.
Bucket, Well-. P. Thomas. No. 997,476; July 11; Sp. p. 1815; Gaz. vol. 168; p. 328.
Bucket, Well-. J. C. Huckaby and T. L. McMinn. No. 1,011,058; Dec. 5; Sp. p. 1437; Gaz. vol. 173; p. 228.
Buckle. H. A. Johnson. No. 983,448; Feb. 7; Sp. p. 411; Gaz. vol. 163; p. 66.
Buckle. E. N. Humphrey. No. 983,718; Feb. 7; Sp. p. 995; Gaz. vol. 163; p. 158.
Buckle. G. H. Perrine. No. 986,083; Mar. 7; Sp. p. 701; Gaz. vol. 164; p. 112.
Buckle. R. A. Moore. No. 986,404; Mar. 7; Sp. p. 1364; Gaz. vol. 164; p. 220.

Buckle. J. P. Bair. No. 988,617; Apr. 4; Sp. p. 707; Gaz. vol. 165; p. 113.
Buckle. M. Cohen. No. 989,121; Apr. 11; Sp. p. 1740; Gaz. vol. 165; p. 303.
Buckle. H. G. Kelsey. No. 989,266; Apr. 11; Sp. p. 2064; Gaz. vol. 165; p. 352.
Buckle. W. R. Faris. No. 989,590; Apr. 18; Sp. p. 2799; Gaz. vol. 165; p. 495.
Buckle. G. W. Hacker. No. 989,599; Apr. 18; Sp. p. 2815; Gaz. vol. 165; p. 498.
Buckle. W. S. Graham. No. 990,127; Apr. 18; Sp. p. 3916; Gaz. vol. 165; p. 676.
Buckle. E. N. Humphrey. No. 991,995; May 9; Sp. p. 2473; Gaz. vol. 166; p. 439.
Buckle. G. S. Hill. No. 992,562; May 16; Sp. p. 3730; Gaz. vol. 166; p. 667.
Buckle. C. A. Whelan. No. 992,831; May 23; Sp. p. 4281; Gaz. vol. 166; p. 789.
Buckle. R. A. Brown. No. 993,320; May 23; Sp. p. 5314; Gaz. vol. 166; p. 954.
Buckle. W. A. Holden. No. 994,515; June 6; Sp. p. 849; Gaz. vol. 167; p. 143.
Buckle. W. A. Holden. No. 996,248; June 27; Sp. p. 4716; Gaz. vol. 167; p. 839.
Buckle. S. Katz. No. 998,097; July 18; Sp. p. 3261; Gaz. vol. 168; p. 588.
Buckle. L. P. Faison. No. 1,001,007; Aug. 22; Sp. p. 3918; Gaz. vol. 169; p. 721.
Buckle. R. F. Bartel. No. 1,002,022; Aug. 29; Sp. p. 6046; Gaz. vol. 169; p. 1094.
Buckle. H. W. Falstrom. No. 1,004,248; Sept. 26; Sp. p. 4570; Gaz. vol. 170; p. 808.
Buckle. F. W. King. No. 1,005,229; Oct. 10; Sp. p. 1418; Gaz. vol. 171; p. 259.
Buckle. H. W. Falstrom. No. 1,009,397; Nov. 21; Sp. p. 3981; Gaz. vol. 172; p. 688.
Buckle. E. Deso. No. 1,009,486; Nov. 21; Sp. p. 4170; Gaz. vol. 172; p. 718.
Buckle. C. D. McCrillis. No. 1,009,768; Nov. 28; Sp. p. 4738; Gaz. vol. 172; p. 858.
Buckle. W. Lowry. No. 1,009,845; Nov. 28; Sp. p. 4893; Gaz. vol. 172; p. 884.
Buckle. J. F. King. No. 1,012,864; Dec. 26; Sp. p. 5491; Gaz. vol. 173; p. 971.
Buckle and pocket-book, Combined belt-. P. Publicker and H. Segal. No. 1,013,059; Dec. 26; Sp. p. 5928; Gaz. vol. 173; p. 1037.
Buckle, Back-band. B. W. B. Adkins. No. 1,012,575; Dec. 26; Sp. p. 4830; Gaz. vol. 173; p. 871.
Buckle, Bale-band. A. O. Brigance. No. 994,243; June 6; Sp. p. 297; Gaz. vol. 167; p. 51.
Buckle, Bale-tie. J. D. Strahan. No. 1,007,814; Nov. 7; Sp. p. 374; Gaz. vol. 172; p. 58.
Buckle, Bale-tie. F. H. McFarland. No. 1,012,402; Dec. 19; Sp. p. 4476; Gaz. vol. 173; p. 767.
Buckle, Baling-tie. D. W. Bartran. No. 1,009,632; Nov. 21; Sp. p. 4439; Gaz. vol. 172; p. 765.
Buckle, Belt-. A. A. West. No. 983,334; Feb. 7; Sp. p. 166; Gaz. vol. 163; p. 29.
Buckle, Belt-. J. W. Williams. No. 1,004,223; Sept. 26; Sp. p. 4516; Gaz. vol. 170; p. 799.
Buckle connection. J. W. Savage. No. 987,326; Mar. 21, Sp. p. 3317; Gaz. vol. 164; p. 596.
Buckle, Cross-line. J. W. McMurry. No. 988,801; Apr. 4; Sp. p. 1096; Gaz. vol. 165; p. 175.
Buckle, Cross-rein. W. C. Schultz. No. 1,005,890; Oct. 17; Sp. p. 2896; Gaz. vol. 171; p. 525.
Buckle device. R. Belcher. No. 1,002,489; Sept. 5; Sp. p. 700; Gaz. vol. 170; p. 102.
Buckle for cotton-ties. L. W. Swafford. No. 980,700; Jan. 3; Sp. p. 1130; Gaz. vol. 162; p. 181.
Buckle for cotton-ties. L. W. Swafford. No. 980,701; Jan. 3; Sp. p. 1131; Gaz. vol. 162; p. 181.
Buckle for top hame-straps, Bridge-. G. T. Duncan, Sr. No. 1,005,621; Oct. 10; Sp. p. 2319; Gaz. vol. 171; p. 399.
Buckle for webbing. W. A. Holden. No. 994,843; June 13; Sp. p. 1650; Gaz. vol. 167; p. 296.
Buckle for white-lead manufacture. H. P. Cavarly. No. 999,205; Aug. 1; Sp. p. 28; Gaz. vol. 169; p. 7.
Buckle, Garment-. M. Rubin. No. 985,843; Mar. 7; Sp. p. 181; Gaz. vol. 164; p. 29.
Buckle, Garment-. M. Rubin. No. 993,109; May 23; Sp. p. 4904; Gaz. vol. 166; p. 888.
Buckle, Harness-. R. B. Carter. No. 988,078; Mar. 28; Sp. p. 4975; Gaz. vol. 164; p. 882.
Buckle, Harness-. J. T. Merritt. No. 1,000,279; Aug. 8; Sp. p. 2255; Gaz. vol. 169; p. 399.
Buckle, Harness-. N. Signorelli. No. 1,005,341; Oct. 10; Sp. p. 1687; Gaz. vol. 171; p. 301.
Buckle, Hip-strap. A. F. Hoska. No. 982,963; Jan. 31; Sp. p. 6117; Gaz. vol. 162; p. 1069.
Buckle-protector. O. J. Linderud. No. 1,008,165; Nov. 7; Sp. p. 1097; Gaz. vol. 172; p. 180.
Buckle, Self-locking. M. G. Knight and C. H. Jardine. No. 982,433; Jan. 24; Sp. p. 4983; Gaz. vol. 162; p. 862.
Buckle, Separable harness-. O. Handfield. No. 1,004,422; Sept. 26; Sp. p. 4910; Gaz. vol. 170; p. 865.
Buckle-shield. E. A. Pflueger. No. 985,057; Feb. 21; Sp. p. 3855; Gaz. vol. 163; p. 680.
Buckle, Slide-. L. W. Wright. No. 991,812; May 9; Sp. p. 2111; Gaz. vol. 166; p. 377.
Buckle, Slide-. E. N. Humphrey. No. 1,012,082; Dec. 19; Sp. p. 3803; Gaz. vol. 173; p. 659.
Buckle, Sliding-tongue. H. Kerngood. No. 987,576; Mar. 21; Sp. p. 3817; Gaz. vol. 164; p. 680.
Buckle, Sliding-tongue. E. Hartman. No. 1,004,166; Sept. 26; Sp. p. 4409; Gaz. vol. 170; p. 780.
Buckle, Suspender-. A. M. Ziegler. No. 987,278; Mar. 21; Sp. p. 3218; Gaz. vol. 164; p. 581.
Buckle, Tug-. N. P. Petersen. No. 982,090; Jan. 17; Sp. p. 4281; Gaz. vol. 162; p. 713.
Buffer. J. C. Regan. No. 993,874; May 30; Sp. p. 6533; Gaz. vol. 166; p. 1177.
Buffer-block. H. C. Buhoup. No. 984,071; Feb. 14; Sp. p. 1788; Gaz. vol. 163; p. 308.
Buffer mechanism. W. O. Thomas. No. 1,003,015; Sept. 12; Sp. p. 1846; Gaz. vol. 170; p. 319.
Buffing-hood. W. E. Crease. No. 1,007,272; Oct. 31; Sp. p. 5995; Gaz. vol. 171; p. 1094.
Buffing-machine. J. H. Hodskinson. No. 1,002,845; Sept. 12; Sp. p. 1471; Gaz. vol. 170; p. 261.
Buffing-machine, Automatic. C. A. Clark. No. 1,012,814; Dec. 26; Sp. p. 5378; Gaz. vol. 173; p. 955.
Buffing or polishing wheel. J. C. Codman and F. W. Worch. No. 981,841; Jan. 17; Sp. p. 3715; Gaz. vol. 162; p. 628
Buffing-wheel. W. W. Crooker. No. 994,504; June 6; Sp. p. 828; Gaz. vol. 167; p. 139.
Buffing-wheel. W. J. Courtney. No. 1,011,323; Dec. 12; Sp. p. 2102; Gaz. vol. 173; p. 359.
Buggies, Sliding door for storm-. S. P. Glunt. No. 990,252; Apr. 25; Sp. p. 4217; Gaz. vol. 165; p. 752.
Buggy-body. J. T. Barnett. No. 1,003,689; Sept. 19; Sp. p. 3291; Gaz. vol. 170; p. 589.
Buggy-seat. F. Dusenbury. No. 982,484; Jan. 24; Sp. p. 5107; Gaz. vol. 162; p. 881.
Buggy storm-top. W. A. Hunter. No. 983,371; Feb. 7; Sp. p. 247; Gaz. vol. 163; p. 42.
Buggy-top. C. Gordon. No. 983,992; Feb. 14; Sp. p. 1619; Gaz. vol. 163; p. 280.
Buggy-wrench. M. A. Johnson. No. 986,716; Mar. 14; Sp. p. 2033; Gaz. vol. 164; p. 356.
Buggy-wrench. H. J. Winckler. No. 1,003,845; Sept. 19; Sp. p. 3594; Gaz. vol. 170; p. 639.
Building. T. A. Eisen. No. 998,479; July 18; Sp. p. 4085; Gaz. vol. 168; p. 724.
Building. L. Schnuerer. No. 1,000,348; Aug. 8; Sp. p. 2400; Gaz. vol. 169; p. 422.
Building-block. W. H. Osburn. No. 987,738; Mar. 28; Sp. p. 4186; Gaz. vol. 164; p. 764.
Building-block. E. J. Forbes. No. 989,344; Apr. 11; Sp. p. 2232; Gaz. vol. 165; p. 379.
Building-block. P. D. Diamond. No. 990,119; Apr. 18; Sp. p. 3897; Gaz. vol. 165; p. 673.
Building-block. W. D. Myers. No. 991,009; May 2; Sp. p. 382; Gaz. vol. 166; p. 65.
Building-block. L. Sajó. No. 991,896; May 9; Sp. p. 2276; Gaz. vol. 166; p. 406.
Building-block. E. S. Fee. No. 1,002,979; Sept. 12; Sp. p. 1777; Gaz. vol. 170; p. 308.
Building-block. W. C. Denison. (Reissue.) No. 13,299; Oct. 17; Sp. p. 4150; Gaz. vol. 171; p. 721.
Building-block. H. N. King. No. 1,009,319; Nov. 21; Sp. p. 3783; Gaz. vol. 172; p. 659.
Building-block. H. A. Ullrich. No. 1,011,283; Dec. 12; Sp. p. 2002; Gaz. vol. 173; p. 344.
Building-block, Artificial-stone. J. Bühler. No. 989,564; Apr. 18; Sp. p. 2727; Gaz. vol. 165; p. 486.
Building-block construction, Cement or concrete. M. Goehler. No. 998,086; July 18; Sp. p. 3229; Gaz. vol. 168; p. 584.
Building-block, Hollow. F. Burchartz. No. 983,534; Feb. 7; Sp. p. 586; Gaz. vol. 163; p. 94.
Building-block joint. C. W. Frost. No. 1,000,395; Aug. 15; Sp. p. 2517; Gaz. vol. 169; p. 470.
Building-block, Sectional. F. Burchartz. No. 986,132; Mar. 7; Sp. p. 786; Gaz. vol. 164; p. 127.
Building-blocks, Convertible core for. J. W. P. Reid. No. 990,774; Apr. 25; Sp. p. 5407; Gaz. vol. 165; p. 932.
Building-blocks, Facing. W. D. and M. Moore. No. 989,921; Apr. 18; Sp. p. 3492; Gaz. vol. 165; p. 607.
Building-blocks, Making hollow. F. Burchartz. No. 986,798; Mar. 14; Sp. p. 2212; Gaz. vol. 164; p. 384.
Building, Collapsible. G. Fugman. No. 981,992; Jan. 17; Sp. p. 4077; Gaz. vol. 162; p. 680.
Building construction. W. A. Bishop. No. 980,479; Jan. 3; Sp. p. 645; Gaz. vol. 162; p. 107.
Building construction. F. Burchartz. No. 982,030; Jan. 17; Sp. p. 4154; Gaz. vol. 162; p. 693.
Building construction. C. D. Salfield. No. 991,751; May 9; Sp. p. 1979; Gaz. vol. 166; p. 356.
Building construction. H. I. Jeffers. No. 1,003,607; Sept. 19; Sp. p. 3106; Gaz. vol. 170; p. 559.
Building construction. O. K. Harry. No. 1,011,195; Dec. 12; Sp. p. 1786; Gaz. vol. 173; p. 312.
Building-construction anchor. D. O. Crilly. No. 1,008,118; Nov. 7; Sp. p. 1012; Gaz. vol. 172; p. 164.
Building construction, Monolithic. F. F. Sinks. No. 1,005,756; Oct. 10; Sp. p. 2591; Gaz. vol. 171; p. 446.
Building constructions, Clamping device for. C. P. Trimble. No. 1,000,212; Aug. 8; Sp. p. 2121; Gaz. vol. 169; p. 377.

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Building constructions, Clamping device for. C. P. Trimble. No. 1,000,213; Aug. 8; Sp. p. 2123; Gaz. vol. 169; p. 378.
Building-corner, Metal. T. F. Jameson. No. 985,898; Mar. 7; Sp. p. 300; Gaz. vol. 164; p. 48.
Building, Earthquake-proof. O. Ruhl. No. 981,884; Jan. 17; Sp. p. 3796; Gaz. vol. 162; p. 642.
Building frame or sash, Metal. W. R. Kinnear. No. 999,656; Aug. 1; Sp. p. 903; Gaz. vol. 169; p. 157.
Building-partition. L. F. Jackson. No. 998,293; July 18; Sp. p. 3701; Gaz. vol. 168; p. 660.
Building purposes, Metal reinforcement for. H. Ferree. No. 988,326; Apr. 4; Sp. p. 64; Gaz. vol. 165; p. 13.
Building tubular structures, Adjustable form for. R. O. Blayney. No. 1,001,500; Aug. 22; Sp. p. 4905; Gaz. vol. 169; p. 886.
Building-walls, &c., Support for. J. Breuchaud. No. 996,397; June 27; Sp. p. 5064; Gaz. vol. 167; p. 891.
Buildings, Construction of. W. A. Bishop. No. 980,480; Jan. 3; Sp. p. 647; Gaz. vol. 162; p. 107.
Buildings, Construction of. J. Mitchell. No. 1,013,038; Dec. 26; Sp. p. 5886; Gaz. vol. 173; p. 1029.
Buildings in earthquake localities, Foundation for. F. Veres. No. 981,824; Jan. 17; Sp. p. 3686; Gaz. vol. 162; p. 622.
Buildings, System of constructing. E. P. Boyd. No. 991,942; May 9; Sp. p. 2376; Gaz. vol. 166; p. 422.
Buildings, System of constructing. A. J. Meier. No. 992,739; May 16; Sp. p. 4075; Gaz. vol. 166; p. 728.
Bulb-protector. M. G. Schlotborn. No. 990,784; Apr. 25; Sp. p. 5435; Gaz. vol. 165; p. 936.
Bulkhead. M. M. Upson. No. 982,697; Jan. 24; Sp. p. 5522; Gaz. vol. 162; p. 951.
Bull-staff. G. A. Richardson. No. 984,157; Feb. 14; Sp. p. 1955; Gaz. vol. 163; p. 335.
Bull-wheel, tug-wheel, and mounting-reel therefor, Combined. T. A. Beecher. No. 1,007,418; Oct. 31; Sp. p. 6299; Gaz. vol. 171; p. 1145.
Bullet. S. G. Wray. No. 996,820; July 4; Sp. p. 455; Gaz. vol. 168; p. 75.
Bullet-catcher. A. Mount. No. 1,010,514; Dec. 5; Sp. p. 262; Gaz. vol. 173; p. 41.
Bulletin. F. De Silva. No. 982,940; Jan. 31; Sp. p. 6080; Gaz. vol. 162; p. 1062.
Bulletin-holder. J. G. Stevens. No. 1,007,988; Nov. 7; Sp. p. 749; Gaz. vol. 172; p. 118.
Bumping mechanism, Differential reciprocating. E. A. Wall. No. 1,011,680; Dec. 12; Sp. p. 2900; Gaz. vol. 173; p. 485.
Bumping-post. A. E. Schultz. No. 986,509; Mar. 14; Sp. p. 1600; Gaz. vol. 164; p. 285.
Bundle-binding machine. E. W. Parkhill and L. J. Wright. No. 990,768; Apr. 25; Sp. p. 5394; Gaz. vol. 165; p. 930.
Bundle-fastener. H. L. Swanson. No. 1,003,822; Sept. 19; Sp. p. 3549; Gaz. vol. 170; p. 631.
Bundle-loader. H. S. Battee. No. 1,005,126; Oct. 10; Sp. p. 1181; Gaz. vol. 171; p. 222.
Bundle-tying implement. H. M. Wolf. No. 991,588; May 9; Sp. p. 1646; Gaz. vol. 166; p. 303.
Bundling-machine. T. Hawley. No. 985,895; Mar. 7; Sp. p. 294; Gaz. vol. 164; p. 48.
Bundling-press. R. A. Freeman. No. 1,010,359; Nov. 28; Sp. p. 5930; Gaz. vol. 172; p. 1055.
Bung. S. L. McLaurin. No. 999,240; Aug. 1; Sp. p. 95; Gaz. vol. 169; p. 18.
Bung and faucet, Combination. E. D. Wilson. No. 1,006,332; Oct. 17; Sp. p. 3893; Gaz. vol. 171; p. 680.
Bung closure, Barrel-. G. Stiefel. No. 1,011,089; Dec. 5; Sp. p. 1515; Gaz. vol. 173; p. 239.
Bung-key. R. Stock. No. 1,006,144; Oct. 17; Sp. p. 3464; Gaz. vol. 171; p. 615.
Bung-making machine. M. Moul. No. 982,980; Jan. 31; Sp. p. 6151; Gaz. vol. 162; p. 1074.
Bung-rings of transport-casks during pitching, Device for cooling. H. Jaenisch. No. 1,001,526; Aug. 22; Sp. p. 4955; Gaz. vol. 169; p. 895.
Bung, Safety-. W. H. McNutt. No. 999,829; Aug. 8; Sp. p. 1251; Gaz. vol. 169; p. 245.
Bung spout or funnel. F. W. Kublin. No. 998,352; July 18; Sp. p. 3834; Gaz. vol. 168; p. 681.
Bung-spout, Twin. C. D. Bowyer and L. N. Boorse. No. 1,003,694; Sept. 19; Sp. p. 3302; Gaz. vol. 170; p. 591.
Bunion and corn protector. M. Saul. No. 1,006,134; Oct. 17; Sp. p. 3436; Gaz. vol. 171; p. 610.
Bunion-protector. Q. E. Packard. No. 1,001,161; Aug. 22; Sp. p. 4226; Gaz. vol. 169; p. 773.
Buoy-protector. H. G. Warner. No. 996,545; June 27; Sp. p. 5373; Gaz. vol. 167; p. 940.
Burette-holder and pinch-cock, Combined. H. E. Hildebrand. No. 989,503; Apr. 11; Sp. p. 2551; Gaz. vol. 165; p. 432.
Burglar-alarm. A. Ambuhl. No. 985,720; Feb. 28; Sp. p. 5373; Gaz. vol. 163; p. 941.
Burglar-alarm. L. S. Bander. No. 986,671; Mar. 14; Sp. p. 1943; Gaz. vol. 164; p. 342.
Burglar-alarm. J. L. Poinsett. No. 988,026; Mar. 28, Sp. p. 4856; Gaz. vol. 164; p. 864.
Burglar-alarm. G. C. Lyon. No. 990,445; Apr. 25; Sp. p. 4672; Gaz. vol. 165; p. 821.
Burglar-alarm. L. M. Pratt. No. 991,643; May 9; Sp. p. 1756; Gaz. vol. 166; p. 322.
Burglar-alarm. R. and J. Neilson. No. 991,741; May 9; Sp. p. 1967; Gaz. vol. 166; p. 353.
Burglar-alarm. C. E. Blackburn. No. 997,036; July 4; Sp. p. 949; Gaz. vol. 168; p. 151.
Burglar-alarm. G. A. Childs. No. 997,240; July 4; Sp. p. 1350; Gaz. vol. 168; p. 220.
Burglar-alarm. G. A. Sabine. No. 1,000,847; Aug. 15; Sp. p. 3513; Gaz. vol. 169; p. 632.
Burglar-alarm. A. Cline. No. 1,003,234; Sept. 12; Sp. p. 2319; Gaz. vol. 170; p. 398.
Burglar-alarm. C. E. Penez. No. 1,006,675; Oct. 24; Sp. p. 4668; Gaz. vol. 171; p. 832.
Burglar-alarm. A. Myers. No. 1,012,691; Dec. 26: Sp. p. 5069; Gaz. vol. 173; p. 910.
Burglar-alarm, Automatic mechanical. A. Briechle. No. 990,423; Apr. 25; Sp. p. 4628; Gaz. vol. 165; p. 814.
Burglar-alarm, Detonating. J. M. Butcher. No. 1,003,701; Sept. 19; Sp. p. 3311; Gaz. vol. 170; p. 593.
Burglar-alarm, Explosive. E. Reichenbach. No. 981,308; Jan. 10; Sp. p. 2601; Gaz. vol. 162; p. 423.
Burglar-alarm plates. G. Dzerma. No. 987,220; Mar. 21; Sp. p. 3086; Gaz. vol. 164; p. 560.
Burglar-alarm, Portable. W. Crowley. No. 1,009,285; Nov. 21; Sp. p. 3714; Gaz. vol. 172; p. 646.
Burglar and fire alarm and telephone system. A. Köhler. No. 1,012,865; Dec. 26; Sp. p. 5492; Gaz. vol. 173; p. 971.
Burglar and fire alarm system. J. M. Johnson. No. 993,688; May 30; Sp. p. 6157; Gaz. vol. 166; p. 1114.
Burglar-trap. J. Y. Werrick and P. F. Dailey. No. 982,911; Jan. 31; Sp. p. 6005; Gaz. vol. 162; p. 1052.
Burglary safeguarding apparatus. E. Maynard. No. 991,219; May 2; Sp. p. 836; Gaz. vol. 166; p. 142.
Burial apparatus. L. Johnson. No. 1,009,150; Nov. 21; Sp. p. 3371; Gaz. vol. 172; p. 596.
Burial-case mold. G. Turner. No. 1,010,821; Dec. 5; Sp. p. 927; Gaz. vol. 173; p. 146.
Burial casing or vault. H. D. Clark. No. 1,005,513; Oct. 10; Sp. p. 2050; Gaz. vol. 171; p. 360.
Burial device. J. A. Johnson. No. 1,004,273; Sept. 26; Sp. p. 4612; Gaz. vol. 170; p. 815.
Burner: *See* Coal-burner; Coal-oil burner; Gas-burner; Gas-heating burner; Gas-lighting burner; Gasolene-burner; Grass or stubble burner; Hydrocarbon-burner; Incandescent burner; Injector-burner; Lamp-burner; Liquid-fuel burner; Liquid-fuel adjustable burner; Oil-burner; Oil and gas burner; Oil-gas burner; Peat-burner; Plant-bed burner; Refuse-burner; Simmering-burner; Spray-burner; Starting-burner; Stump-burner; Vapor-burner; Waste-burner; Welding-burner.
Burner. F. C. Chadborn. No. 991,197; May 2; Sp. p. 789; Gaz. vol. 166; p. 134.
Burner. L. E. Shaw. No. 991,759; May 9; Sp. p. 1994; Gaz. vol. 166; p. 359.
Burner. T. P. Burke. No. 994,441; June 6; Sp. p. 701; Gaz. vol. 167; p. 120.
Burner. F. A. Curtis. No. 994,773; June 20; Sp. p. 3682; Gaz. vol. 167; p. 642.
Burner. P. H. Smith. No. 998,130; July 18; Sp. p. 3330; Gaz. vol. 168; p. 600.
Burner. M. E. B. Williams. No. 999,615; Aug. 1; Sp. p. 821; Gaz. vol. 169; p. 143.
Burner. A. P. Storrs. No. 1,000,048; Aug. 8; Sp. p. 1713; Gaz. vol. 169; p. 320.
Burner. A. Burton. No. 1,003,329; Sept. 12; Sp. p. 2507; Gaz. vol. 170; p. 431.
Burner. W. W. Case, Sr. No. 1,003,873; Sept. 19; Sp. p. 3656; Gaz. vol. 170; p. 650.
Burner. A. H. Merrill. No. 1,004,291; Sept. 26; Sp. p. 4644; Gaz. vol. 170; p. 822.
Burner. L. M. Hasbrouck. No. 1,008,820; Nov. 14; Sp. p. 2682; Gaz. vol. 172; p. 451.
Burner. G. G. Melhart. No. 1,010,294; Nov. 28; Sp. p. 5804; Gaz. vol. 172; p. 1034.
Burner. J. Zander. No. 1,011,100; Dec. 5; Sp. p. 1538; Gaz. vol. 173; p. 243.
Burner. M. Greenlee. No. 1,012,199; Dec. 19; Sp. p. 4066; Gaz. vol. 173; p. 698.
Burner and stove, Combination. J. A. Babb and B. A. McDonald. No. 980,182; Jan. 3; Sp. p. 12; Gaz. vol. 162; p. 4.
Burner-controller. J. W. Dearing. No. 981,844; Jan. 17; Sp. p. 3721; Gaz. vol. 162; p. 629.
Burner deflector, Oil-. F. A. Curtis. No. 980,497; Jan. 3; Sp. p. 696; Gaz. vol. 162; p. 113.
Burner for cutting metal or for autogenous welding. H. Knapp. No. 1,000,018; Aug. 8; Sp. p. 1654; Gaz. vol. 169; p. 310.
Burners for fire-polishing, Forming. A. J. Sanford. No. 995,914; June 20; Sp. p. 3975; Gaz. vol. 167; p. 690.
Burnishing and indenting tool. C. Jörgensen. No. 999,228; Aug. 1; Sp. p. 71; Gaz. vol. 169; p. 14.
Burnishing-machine. S. F. Anderson. No. 987,940; Mar. 28; Sp. p. 4663; Gaz. vol. 164; p. 835.
Burnishing-machine. C. W. Hammond. No. 990,257; Apr. 25; Sp. p. 4225; Gaz. vol. 165; p. 753.
Burnishing-machine. C. W. Hammond. No. 990,258; Apr. 25; Sp. p. 4227; Gaz. vol. 165; p. 754.
Burnishing-machine. C. W. Hammond. No. 990,259; Apr. 25; Sp. p. 4229; Gaz. vol. 165; p. 754.

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Burnishing-machine. E. R. Williams and G. F. D. Rollings. No. 995,749; June 20; Sp. p. 3609; Gaz. vol. 167; p. 634.
Burnishing-tool, Rotary. B. F. Dingley. No. 1,010,127; Nov. 28; Sp. p. 5468; Gaz. vol. 172; p. 980.
Burnishing-wheel. D. Zemborski. No. 1,000,872; Aug. 15; Sp. p. 3569; Gaz. vol. 169; p. 641.
Busheling-furnace. F. J. Droege. No. 995,230; June 13; Sp. p. 2454; Gaz. vol. 167; p. 424.
Busheling-furnace, Automatic. S. McCloud. No. 995,979; June 20; Sp. p. 4100; Gaz. vol. 167; p. 714.
Bushing. W. R. Anderson. No. 993,745; May 30; Sp. p. 6285; Gaz. vol. 166; p. 1134.
Bushing. H. J. Gilbert. No. 995,531; June 20; Sp. p. 3131; Gaz. vol. 167; p. 556.
Bushing for pulleys. L. Whitcomb. No. 989,676; Apr. 18; Sp. p. 2974; Gaz. vol. 165; p. 524.
Butcher's implement. A. Karhan. No. 999,501; Aug. 1; Sp. p. 604; Gaz. vol. 169; p. 105.
Butt-hook. L. S. Denison. No. 987,865; Mar. 28; Sp. p. 4452; Gaz. vol. 164; p. 809.
Butter and lard block cutting machine. G. A. Bingham. No. 984,064; Feb. 14; Sp. p. 1772; Gaz. vol. 163; p. 305.
Butter and milk mixer. C. T. Barton. No. 1,003,319; Sept. 12; Sp. p. 2485; Gaz. vol. 170; p. 428.
Butter-blender. U. J. Rogers and L. P. Perew. No. 1,007,798; Nov. 7; Sp. p. 340; Gaz. vol. 172; p. 53.
Butter-compound mixer. J. H. Davis. No. 984,079; Feb. 14; Sp. p. 1807; Gaz. vol. 163; p. 310.
Butter-cutter. R. F. Stewart. No. 998,722; July 25; Sp. p. 4634; Gaz. vol. 168; p. 841.
Butter-cutter. W. H. Noack. No. 1,002,431; Sept. 5; Sp. p. 574; Gaz. vol. 170; p. 82.
Butter-cutting machine. R. O. Hughes. No. 1,007,357; Oct. 31; Sp. p. 6161; Gaz. vol. 171; p. 1124.
Butter-cutting machine. P. N. Oien. No. 1,007,598; Oct. 31; Sp. p. 6697; Gaz. vol. 171; p. 1206.
Butter, Flavoring. G. W. Yeoman. No. 983,854; Feb. 7; Sp. p. 1282; Gaz. vol. 163; p. 205.
Butter, Making. J. Desmond. No. 1,007,773; Nov. 7; Sp. p. 270; Gaz. vol. 172; p. 44.
Butter-mold. J. B. Rotz. No. 1,007,045; Oct. 24; Sp. p. 5465; Gaz. vol. 171; p. 958.
Butter-molding machine. J. N. Jacobsen. No. 1,012,556; Dec. 19; Sp. p. 4775; Gaz. vol. 173; p. 820.
Butter substitutes, Manufacture of. T. E. Smith. No. 992,521; May 16; Sp. p. 3636; Gaz. vol. 166; p. 653.
Butter-tub, Sanitary. B. R. Kinney. No. 1,005,434; Oct. 10; Sp. p. 1882; Gaz. vol. 171; p. 333.
Button. D. C. Lockhart. No. 990,056; Apr. 18; Sp. p. 3777; Gaz. vol. 165; p. 653.
Button and button-and-loop clasp. C. W. Stimson. No. 986,518; Mar. 14; Sp. p. 1621; Gaz. vol. 164; p. 288.
Button and like fastening, Spring-. P. O. H. Brüning. No. 1,009,278; Nov. 21; Sp. p. 3701; Gaz. vol. 172; p. 644.
Button-and-loop clasp. C. W. Stimson. No. 997,473; July 11; Sp. p. 1809; Gaz. vol. 168; p. 327.
Button-blank-cutting machine. A. Feyk and F. Drda. No. 983,814; Feb. 7; Sp. p. 1180; Gaz. vol. 163; p. 190.
Button-blank-cutting machine. L. W. Holub and P. F. Dusha. No. 999,031; July 25; Sp. p. 5347; Gaz. vol. 168; p. 951.
Button-blank-cutting machine. L. W. Holub and P. F. Dusha. No. 999,032; July 25; Sp. p. 5350; Gaz. vol. 168; p. 952.
Button-blank-cutting machine. G. W. Schreurs. No. 1,009,346; Nov. 21; Sp. p. 3840; Gaz. vol. 172; p. 669.
Button-burnishing machine. J. Toland. No. 1,003,218; Sept. 12; Sp. p. 2273; Gaz. vol. 170; p. 391.
Button, Collar-. W. M. Noble. No. 989,632; Apr. 18; Sp. p. 2879; Gaz. vol. 165; p. 509.
Button, Collar-. F. P. Barney. No. 997,948; July 18; Sp. p. 2915; Gaz. vol. 168; p. 535.
Button, Cuff-. O. R. Johnson. No. 998,907; July 25; Sp. p. 5059; Gaz. vol. 168; p. 908.
Button, Cuff-. R. C. Robinson. No. 1,005,074; Oct. 3; Sp. p. 1082; Gaz. vol. 171; p. 182.
Button, Cuff-. F. Vobrouček. No. 1,009,704; Nov. 21; Sp. p. 4575; Gaz. vol. 172; p 789.
Button-cutting machine. T. F. Barry. No. 999,429; Aug. 1; Sp. p. 468; Gaz. vol. 169; p. 82.
Button-fastener. H. Spooner and S. Albertson. No. 983,410; Feb. 7; Sp. p. 324; Gaz. vol. 163; p. 55.
Button-fastening. A. Aaron and A. Oathout. No. 1,008,511; Nov. 14; Sp. p. 2000; Gaz. vol. 172; p. 342.
Button-fastening machines, Anticlogging attachment for. G. W. Perkins. No. 992,899; May 23; Sp. p. 4437; Gaz. vol. 166; p. 814.
Button-fastening tool or device. E. Berning. No. 989,109; Apr. 11; Sp. p. 1717; Gaz. vol. 165; p. 299.
Button-feeding device. H. Hastings. No. 1,008,032; Nov. 7; Sp. p. 833; Gaz. vol. 172; p. 132.
Button-holder. A. H. Cushman. No. 987,051; Mar. 14; Sp. p. 2709; Gaz. vol. 164; p. 468.
Button-hook. J. Johnson. No. 986,989; Mar. 14; Sp. p. 2591; Gaz. vol. 164; p. 448.
Button, Lapel-. W. H. Wilkening. No. 1,008,508; Nov. 14; Sp. p. 1996; Gaz. vol. 172; p. 341.
Button, Link cuff-. F. P. Barney. No. 991,819; May 9; Sp. p. 2132; Gaz. vol. 166; p. 380.
Button-machine feed, Automatic. E. Morgan and J. Bird. No. 1,005,277; Oct. 10; Sp. p. 1533; Gaz. vol. 171; p. 277.
Button-making machine. F. M. Hopkins. No. 981,564; Jan. 10; Sp. p. 3124; Gaz. vol. 162; p. 510.
Button-making machine. J. G. Breitenstein. No. 988,304; Apr. 4; Sp. p. 17; Gaz. vol. 165; p. 5.
Button-making machine. E. F. T. Lundquist. No. 988,478; Apr. 4; Sp. p. 403; Gaz. vol. 165; p. 65.
Button-making machinery. J. T. Carroll, Jr. No. 998,072; July 18; Sp. p. 3188; Gaz. vol. 168; p. 579.
Button remover, Shoe-. C. C. Nichols. No. 1,006,779; Oct. 24; Sp. p. 4879; Gaz. vol. 171; p. 867.
Button, Separable. S. E. Norman. No. 1,000,752; Aug. 15; Sp. p. 3313; Gaz. vol. 169; p. 598.
Button, Separable. E. A. Phinney. No. 1,012,222; Dec. 19; Sp. p. 4118; Gaz. vol. 173; p. 706.
Button-setting machine. G. E. Parker. No. 982,296; Jan. 24; Sp. p. 4706; Gaz. vol. 162; p. 813.
Button, Thread. H. Laula. No. 990,887; May 2; Sp. p. 127; Gaz. vol. 166; p. 24.
Buttons and like articles, Fastening for. L. Weber. No. 1,011,684; Dec. 12; Sp. p. 2907; Gaz. vol. 173; p. 486.
Buttons, Machine for automatically manufacturing sectional. L. Blumenthal. No. 992,540; May 16; Sp. p. 3688; Gaz. vol. 166; p. 660.
Buttons on shoes and other articles, Machine for fastening. G. W. Perkins. No. 982,440; Jan. 24; Sp. p. 4997; Gaz. vol. 162; p. 864.
Buttoner, Collar-. W. Bretsnyder. No. 1,008,238; Nov. 7; Sp. p. 1278; Gaz. vol. 172; p. 209.
Buttonhole, Collar-. C. E. Sackett. No. 987,324; Mar. 21; Sp. p. 3315; Gaz. vol. 164; p. 595.
Buttonhole for wearing-apparel. C. W. T. Davies. No. 997,906; July 11; Sp. p. 2801; Gaz. vol. 168; p. 479.
Buttonhole-machine. J. Jessen. No. 993,070; May 23; Sp. p. 4809; Gaz. vol. 166; p. 874.
Buttonhole-machine gage attachment. J. M. Cooke. No. 1,010,865; Dec. 5; Sp. p. 1047; Gaz. vol. 173; p. 163.
Buttonhole-machine marking-gage. E. F. Littlefield and H. A. Drinkwater. No. 1,009,324; Nov. 21; Sp. p. 3798; Gaz. vol. 172; p. 661.
Buttonhole-piece. C. S. Smith. No. 991,034; May 2; Sp. p. 430; Gaz. vol. 166; p. 74.
By-products, Apparatus for the recovery of. P. M. Hamlin. No. 990,862; May 2; Sp. p. 82; Gaz. vol. 166; p. 15.
Cab or carriage, Child's. G. H. Powell. No. 997,325; July 11; Sp. p. 1538; Gaz. vol. 168; p. 280.
Cabbage, grapes, and the like, Apparatus for crushing. S. Andrychewicz. No. 992,632; May 16; Sp. p. 3876; Gaz. vol. 166; p. 691.
Cabinet. F. E. Lewis. No. 988,793; Apr. 4; Sp. p. 1081; Gaz. vol. 165; p. 172.
Cabinet. K. Mantey. No. 992,019; May 9; Sp. p. 2512; Gaz. vol. 166; p. 447.
Cabinet. P. C. Robertson. No. 997,416; July 11; Sp. p. 1702; Gaz. vol. 168; p. 309.
Cabinet. J. Messersmith. No. 998,195; July 18; Sp. p. 3449; Gaz. vol. 168; p. 622.
Cabinet. C. Faust. No. 1,009,141; Nov. 21; Sp. p. 3359; Gaz. vol. 172; p. 594.
Cabinet. G. F. Reimer. No. 1,009,176; Nov. 21; Sp. p. 3424; Gaz. vol. 172; p. 606.
Cabinet, Account-. R. D. Browning. No. 983,531; Feb. 7; Sp. p. 579; Gaz. vol. 163; p. 93.
Cabinet, Bottle-. L. J. Crecelius. No. 1,004,998; Oct. 3; Sp. p. 945; Gaz. vol. 171; p. 157.
Cabinet, Clothing-. M. J. Freeman. No. 981,187; Jan. 10; Sp. p. 2302; Gaz. vol. 162; p. 380.
Cabinet, Coat, hat, package, and satchel combination-. W. H. Jay. No. 1,008,271; Nov. 7; Sp. p. 1342; Gaz. vol. 172; p. 220.
Cabinet, Commodity-. J. H. Boye. No. 1,006,178; Oct. 17; Sp. p. 3547; Gaz. vol. 171; p. 627.
Cabinet, Credit-. A. J. Tice and C. Gorsuch. No. 1,007,822; Nov. 7; Sp. p. 390; Gaz. vol. 172; p. 61.
Cabinet, Cup-receiving. O. T. Hanson. No. 991,298; May 2; Sp. p. 1011; Gaz. vol. 166; p. 170.
Cabinet, Drier-. O. M. Shannon. No. 1,010,694; Dec. 5; Sp. p. 645; Gaz. vol. 173; p. 103.
Cabinet, Drop-head. G. L. Stevenson. No. 1,000,637; Aug. 15; Sp. p. 3081; Gaz. vol. 169; p. 559.
Cabinet, Druggist's label-. H. W. Broemmelsiek. No. 991,130; May 2; Sp. p. 640; Gaz. vol. 166; p. 109.
Cabinet for loose-leaf account-slips. E. J. Carter. No. 1,002,642; Sept. 5; Sp. p. 1025; Gaz. vol. 170; p. 153.
Cabinet for pole-changers and batteries. R. C. Stone. No. 1,004,101; Sept. 26; Sp. p. 4252; Gaz. vol. 170; p. 758.
Cabinet, Kitchen-. A. Abolt. No. 982,777; Jan. 31; Sp. p. 5703; Gaz. vol. 162; p. 1007.
Cabinet, Kitchen-. A. W. Macon. No. 984,951; Feb. 21; Sp. p. 3650; Gaz. vol. 163; p. 643.
Cabinet, Kitchen-. C. C. Becker. No. 1,000,142; Aug. 8; Sp. p. 1963; Gaz. vol. 169; p. 353.
Cabinet, Kitchen-. J. N. Hall. No. 1,006,547; Oct. 24; Sp. p. 4413; Gaz. vol. 171; p. 787.
Cabinet, Lace-. J. H. Adkins. No. 1,001,797; Aug. 29; Sp. p. 5547; Gaz. vol. 169; p. 1018.
Cabinet, Merchandise-. F. M. Montgomery. No. 994,947; June 13; Sp. p. 1884; Gaz. vol. 167; p. 331.

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Cabinet, Photoprinting-. J. F. Ware. No. 1,001,911; Aug. 29; Sp. p. 5807; Gaz. vol. 169; p. 1057.
Cabinet, Portable bath-. G. G. Cox. No. 1,008,957; Nov. 14; Sp. p. 2962; Gaz. vol. 172; p. 495.
Cabinet, Portable nail and screw holding. F. A. Billstone. No. 983,116; Jan. 31; Sp. p. 6451; Gaz. vol. 162; p. 1121.
Cabinet, Record-. R. M. Vick. No. 984,051; Feb. 14; Sp. p. 1746; Gaz. vol. 163; p. 300.
Cabinet, Record-. W. Hill. No. 1,008,823; Nov. 14; Sp. p. 2687; Gaz. vol. 172; p. 452.
Cabinet, Revolving. L. H. Cobb. No. 997,965; July 18; Sp. p. 2948; Gaz. vol. 168; p. 541.
Cabinet, Ribbon-. H. E. Blevins and L. Brazille. No. 989,111; Apr. 11; Sp. p. 1720; Gaz. vol. 165; p. 300.
Cabinet, Secret. L. Knaster. No. 994,009; May 30; Sp. p. 6809; Gaz. vol. 166; p. 1222.
Cabinet, Seed-testing. B. H. and W. C. Adams. No. 986,426; Mar. 14; Sp. p. 1421; Gaz. vol. 164; p. 257.
Cabinet, Spool-. W. H. Osmer. No. 1,008,429; Nov. 14; Sp. p. 1804; Gaz. vol. 172; p. 313.
Cabinet, Sleeping-. A. Berchem. No. 986,430; Mar. 14; Sp. p. 1431; Gaz. vol. 164; p. 259.
Cabinet, Towel-. H. C. Avery. No. 1,002,958; Sept. 12; Sp. p. 1740; Gaz. vol. 170; p. 302.
Cabinet, Vapor-. N. Crank. No. 1,010,595; Dec. 5; Sp. p. 431; Gaz. vol. 173; p. 69.
Cabinet, Vending-. M. R. Maher. No. 987,005; Mar. 14; Sp. p. 2620; Gaz. vol. 164; p. 453.
Cabinets, Connecting device for the doors of film-. M. Grashin. No. 990,810; Apr. 25; Sp. p. 5483; Gaz. vol. 165; p. 944.
Cable. C. D. Seeberger. No. 989,539; Apr. 11; Sp. p. 2659; Gaz. vol. 165; p. 447.
Cable and similar products, Mechanism for making armored. H. R. Gilson. No. 1,004,643; Oct. 3; Sp. p. 199; Gaz. vol. 171; p. 35.
Cable armor and tubing, Cutter for. L. H. Church. No. 980,600; Jan. 3; Sp. p. 917; Gaz. vol. 162; p. 148.
Cable, Armoring. H. R. Gilson. No. 1,004,644; Oct. 3; Sp. p. 203; Gaz. vol. 171; p. 35.
Cable-box. N. E. Norstrom. No. 980,885; Jan. 3; Sp. p. 1532; Gaz. vol. 162; p. 243.
Cable-carrier. J. Davis. No. 1,007,432; Oct. 31; Sp. p. 6335; Gaz. vol. 171; p. 1150.
Cable-clamp. C. A. Butler. No. 999,006; July 25; Sp. p. 5287; Gaz. vol. 168; p. 941.
Cable clamp, Wire-. J. J. Piper. No. 982,742; Jan. 24; Sp. p. 5621; Gaz. vol. 162; p. 965.
Cable duplex system. I. Kitsee. No. 1,005,714; Oct. 10; Sp. p. 2509; Gaz. vol. 171; p. 431.
Cable-fastener. L. A. Young. No. 1,008,686; Nov. 14; Sp. p. 2398; Gaz. vol. 172; p. 405.
Cable-gripper. H. B. Brockenbrough. No. 1,011,566; Dec. 12; Sp. p. 2646; Gaz. vol. 173; p. 444.
Cable-hanger. A. L. Atwood. No. 1,010,342; Nov. 28; Sp. p. 5902; Gaz. vol. 172; p. 1051.
Cable-hook. J. P. Peterson. No. 989,635; Apr. 18; Sp. p. 2884; Gaz. vol. 165; p. 510.
Cable or conductor hanger. J. J. Walsh. No. 992,301; May 16; Sp. p. 3164; Gaz. vol. 166; p. 575.
Cable-terminal. F. B. Cook. No. 997,042; July 4; Sp. p. 962; Gaz. vol. 168; p. 153.
Cable-terminal. F. B. Cook. No. 997,043; July 4; Sp. p. 963; Gaz. vol. 168; p. 154.
Cable-terminals, Hood-support for. E. L. Grauel. No. 981,637; Jan. 17; Sp. p. 3282; Gaz. vol. 162; p. 557.
Cable-traction apparatus. C. J. Eastman. No. 980,220; Jan. 3; Sp. p. 86; Gaz. vol. 162; p. 17.
Cable-wrapping machine. H. D. Robinson. No. 985,763; Feb. 28; Sp. p. 5455; Gaz. vol. 163; p. 957.
Cables and the like, Clamp or securing device for wire. H. S. Neats. No. 1,010,301; Nov. 28; Sp. p. 5821; Gaz. vol. 172; p. 1036.
Cables, Fastening for the ends of wire. L. Marchand, Jr. No. 985,915; Mar. 7; Sp. p. 337; Gaz. vol. 164; p. 54.
Cableway. W. Hewitt. No. 981,649; Jan. 17; Sp. p. 3297; Gaz. vol. 162; p. 560.
Cableway. T. S. Miller. No. 982,737; Jan. 24; Sp. p. 5613; Gaz. vol. 162; p. 964.
Cableway. T. S. Miller. No. 984,486; Feb. 14; Sp. p 2641; Gaz. vol. 163; p. 446.
Cableway. W. F. Brothers. No. 1,000,772; Aug. 15; Sp. p. 3373; Gaz. vol. 169; p. 606.
Cableway. T. S. Miller. No. 1,001,597; Aug. 22; Sp. p. 5114; Gaz. vol. 169; p. 919.
Cableway. H. O. Adam. No. 1,003,083; Sept. 12; Sp. p. 1972; Gaz. vol. 170; p. 342.
Cableway, Portable. J. H. Dickinson. No. 984,514; Feb. 14; Sp. p. 2720; Gaz. vol. 163; p. 456.
Cableways, Grip for. S. S. Webber. No. 1,011,535; Dec. 12; Sp. p. 2558; Gaz. vol. 173; p. 433.
Cage-trap. I. Ramirez. No. 994,604; June 6; Sp. p. 1041; Gaz. vol. 167; p. 173.
Cake-coating machine. E. Fuller. No. 996,479; June 27; Sp. p. 5245; Gaz. vol. 167; p. 920.
Cake-hanger. F. B. McCullough. No. 995,798; June 20; Sp. p. 3736; Gaz. vol. 167; p. 651.
Cake-making machine. D. Burkhardt. No. 989,831; Apr. 18; Sp. p. 3308; Gaz. vol. 165; p. 578.
Cake-mixer. L. Van Engelen. No. 991,253; May 2; Sp. p. 907; Gaz. vol. 166; p. 154.
Cake-mixer. C. Schenk. No. 1,004,821; Oct. 3; Sp. p. 582; Gaz. vol. 171; p. 96.
Cake-pan, Adjustable. J. F. Truman. No. 993,914; May 30; Sp. p. 6601; Gaz. vol. 166; p. 1190.
Cake-turner. C. Osner. No. 984,388; Feb. 14; Sp. p. 2454; Gaz. vol. 163; p. 415.
Cake-turner. C. Osner. No. 996,123; June 27; Sp. p. 4412; Gaz. vol. 167; p. 798.
Cakes, Making. F. O. Stone. No. 998,650; July 25; Sp. p. 4466; Gaz. vol. 168; p. 816.
Calcimining compound. O. Bush. No. 993,752; May 30; Sp. p. 6301; Gaz. vol. 166; p. 1136.
Calciner, drier, and roaster, Continuous-process rotary plaster. W. A. Bishop. No. 986,350; Mar. 7; Sp. p. 1242; Gaz. vol. 164; p. 200.
Calcium aluminate and other products, Making. S. Peacock. No. 1,000,290; Aug. 8; Sp. p. 2278; Gaz. vol. 169; p. 403.
Calcium cyanamid, Apparatus for producing. F. S. Washburn. No. 999,071; July 25; Sp. p. 5422; Gaz. vol. 168; p. 965.
Calcium cyanamid, Making. K. Schick. No. 1,008,927; Nov. 14; Sp. p. 2887; Gaz. vol. 172; p. 485.
Calcium cyanamid, Making. F. S. Washburn. No. 1,009,705; Nov. 21; Sp. p. 4576; Gaz. vol. 172; p. 789.
Calcium ferrite and phosphorus pentoxid, Making. S. Peacock. No. 988,137; Mar. 28; Sp. p. 5077; Gaz. vol. 164; p. 900.
Calcium metaphosphate and ammonia, Producing. F. W. Frerichs. No. 1,002,143; Aug. 29; Sp. p. 6263; Gaz. vol. 169; p. 1133.
Calcium perborate, Making stable. R. Grüter. No. 999,497; Aug. 1; Sp. p. 597; Gaz. vol. 169; p. 104.
Calcium, Producing. W. C. Arsem. No. 984,503; Feb. 14; Sp. p. 2693; Gaz. vol. 163; p. 452.
Calcium pyrophosphate and ammonia, Producing. F. W. Frerichs. No. 1,002,198; Aug. 29; Sp. p. 6389; Gaz. vol. 169; p. 1151.
Calculating apparatus. C. H. Avery. No. 1,004,339; Sept. 26; Sp. p. 4735; Gaz. vol. 170; p. 837.
Calculating device. R. H. Fenn. No. 980,867; Jan. 3; Sp. p. 1479; Gaz. vol. 162; p. 237.
Calculating device. I. D. Siegfried. No. 984,397; Feb. 14; Sp. p. 2468; Gaz. vol. 163; p. 418.
Calculating device. R. Landenberger. No. 997,680; July 11; Sp. p. 2257; Gaz. vol. 168; p. 399.
Calculating device. C. J. Smith. No. 998,414; July 18; Sp. p. 3960; Gaz. vol. 168; p. 702.
Calculating device. R. F. Koster. No. 1,005,560; Oct. 10; Sp. p. 2170; Gaz. vol. 171; p. 378.
Calculating device. G. Lange. No. 1,012,660; Dec. 26; Sp. p. 5012; Gaz. vol. 173; p. 900.
Calculating device, Roof-rafter-. D. Robertson and J. A. Atkinson. No. 989,806; Apr. 18; Sp. p. 3256; Gaz. vol. 165; p. 568.
Calculating devices, Actuating mechanism for interest-. D. Rawstron. No. 1,004,199; Sept. 26; Sp. p. 4472; Gaz. vol. 170; p. 791.
Calculating-machine. J. Mallmann and G. Browning. No. 980,652; Jan. 3; Sp. p. 1019; Gaz. vol. 162; p. 165.
Calculating-machine. M. Klein and E. A. Seitter. No. 989,367; Apr. 11; Sp. p. 2284; Gaz. vol. 165; p. 386.
Calculating-machine. E. Leder. No. 989,507; Apr. 11; Sp. p. 2558; Gaz. vol. 165; p. 434.
Calculating-machine. W. P. Quentell. No. 992,592; May 16; Sp. p. 3800; Gaz. vol. 166; p. 678.
Calculating-machine. D. E. Felt. No. 992,950; May 23; Sp. p. 4553; Gaz. vol. 166; p. 833.
Calculating-machine. R. H. Marchant. No. 994,414; June 6; Sp. p. 651; Gaz. vol. 167; p. 111.
Calculating-machine. A. W. Harris. No. 995,135; June 13; Sp. p. 2262; Gaz. vol. 167; p. 394.
Calculating-machine. F. C. Rinsche. No. 995,569; June 20; Sp. p. 3206; Gaz. vol. 167; p. 569.
Calculating-machine. D. E. Felt. No. 996,009; June 20; Sp. p. 4156; Gaz. vol. 167; p. 723.
Calculating-machine. F. Rauchwetter. No. 996,523; June 27; Sp. p. 5318; Gaz. vol. 167; p. 932.
Calculating-machine. V. J. Odhner. No. 996,667; July 4; Sp. p. 143; Gaz. vol. 168; p. 25.
Calculating-machine. C. E. Pratt. No. 1,006,787; Oct. 24; Sp. p. 4903; Gaz. vol. 171; p. 870.
Calculating-machine. E. J. Brasseur. No. 1,007,427; Oct. 31; Sp. p. 6315; Gaz. vol. 171; p. 1148.
Calculating-machine. W. P. Quentell. No. 1,007,487; Oct. 31; Sp. p. 6436; Gaz. vol. 171; p. 1169.
Calculating-machine. W. P. Quentell and F. Judge. No. 1,007,488; Oct. 31; Sp. p. 6447; Gaz. vol. 171; p. 1169.
Calculating-machine. F. Trinks. No. 1,007,618; Oct. 31; Sp. p. 6743; Gaz. vol. 171; p. 1213.
Calculating-machine. E. Schuster. No. 1,008,079; Nov. 7; Sp. p. 928; Gaz. vol. 172; p. 149.
Calculating-machine. E. J. Brasseur. No. 1,010,849; Dec. 5; Sp. p. 1004; Gaz. vol. 173; p. 157.
Calculating-machine. A. T. Moe. No. 1,011,073; Dec. 5; Sp. p. 1466; Gaz. vol. 173; p. 233.
Calculating-machine. G. E. Schuman. (Reissue.) No. 13,334; Dec. 5; Sp. p. 1637; Gaz. vol. 173; p. 259.
Calculating-machine. C. Hamann. No. 1,011,617; Dec. 12; Sp. p. 2770; Gaz. vol. 173; p. 464.

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Calculating-machine. V. Vogel. No. 1,012,483; Dec. 19; Sp. p. 4623; Gaz. vol. 173; p. 793.
Calculating-machine anchor-escapements, Mechanism for disengaging. V. J. Odhner. No. 993,708; May 30; Sp. p. 6205; Gaz. vol. 166; p. 1121.
Calculating-machine attachment. W. H. Pike, Jr. No. 1,017,702; Dec. 26; Sp. p. 5107; Gaz. vol. 173; p. 916.
Calculating-machine, Key-set. G. J. Barrett. No. 1,003,086; Sept. 12; Sp. p. 1993; Gaz. vol. 170; p. 343.
Calculating machine, Time-. H. K. Jones. No. 995,466; June 20; Sp. p. 2986; Gaz. vol. 167; p. 533.
Calculating-machines, Actuating device for key-set. G. J. Barrett. No. 1,000,363; Aug. 15; Sp. p. 2448; Gaz. vol. 169; p. 459.
Calculating-machines, Clutch for power-driven. A. Knistrom. No. 999,659; Aug. 1; Sp. p. 906; Gaz. vol. 169; p. 158.
Calculating-machines, Full-stroke mechanism for. O. Thieme. No. 995,816; June 20; Sp. p. 3774; Gaz. vol. 167; p. 658.
Calculating-machines, Key-action for. D. E. Felt. No. 1,003,723; Sept. 19; Sp. p. 3359; Gaz. vol. 170; p. 600.
Calculating-machines, &c., Key-bar-locking mechanism for. W. W. Hopkins. No. 987,068; Mar. 14; Sp. p. 2738; Gaz. vol. 164; p. 473.
Calculating-machines, Key for keyboard. D. E. Felt. No. 982,416; Jan. 24; Sp. p. 4946; Gaz. vol. 162; p. 856.
Calculating-machines, Locking device for. V. J. Odhner. No. 1,010,067; Nov. 28; Sp. p. 5353; Gaz. vol. 172; p. 959.
Calculating-machines, Motor mechanism for. R. Rein. No. 988,144; Mar. 28; Sp. p. 5088; Gaz. vol. 164; p. 902.
Calculating-machines, Registering mechanism for. G. C. Chase. No. 1,011,156; Dec. 12; Sp. p. 1694; Gaz. vol. 173; p. 298.
Calculating-machines, Reversible transfer mechanism for. C. Wolter. No. 998,145; July 18; Sp. p. 3355; Gaz. vol. 168; p. 605.
Calculating-machines, Shifting device for. R. Bürk. No. 996,307; June 27; Sp. p. 4868; Gaz. vol. 167; p. 859.
Calculating-machines, Stepped roller for Thomas. B. Behr. No. 988,069; Mar. 28; Sp. p. 4950; Gaz. vol. 164; p. 878.
Calculating-machines, Transfer mechanism for the forward and backward counting device of. C. Wolter. No. 1,005,397; Oct. 10; Sp. p. 1798; Gaz. vol. 171; p. 321.
Calculations, System for locating errors in. J. C. Pettit. No. 1,000,291; Aug. 8; Sp. p. 2280; Gaz. vol. 169; p. 404.
Calculator. L. D. Roberts. No. 990,779; Apr. 25; Sp. p. 5418; Gaz. vol. 165; p. 934.
Calculator. L. B. Thomas. No. 992,925; May 23; Sp. p. 4493; Gaz. vol. 166; p. 824.
Calculator for tariffs. W. L. and J. A. Seddon. No. 990,202; Apr. 18; Sp. p. 4082; Gaz. vol. 165; p. 701.
Calculator, Interest-. J. H. P. Farrar and A. Hecker. No. 991,204; May 2; Sp. p. 803; Gaz. vol. 166; p. 136.
Calculator, Lumber-. J. F. Stalcup. No. 990,603; Apr. 25; Sp. p. 5024; Gaz. vol. 165; p. 875.
Calculator, Mechanical. F. E. Webner. No. 997,483; July 11; Sp. p. 1834; Gaz. vol. 168; p. 331.
Caldron-cover. F. Baldwin and W. Millerkee. No. 996,554; June 27; Sp. p. 5385; Gaz. vol. 167; p. 942.
Calendar. J. F. Bennet. No. 982,233; Jan. 24; Sp. p. 4553; Gaz. vol. 162; p. 792.
Calendar. I. N. Cassity. No. 994,122; June 6; Sp. p. 39; Gaz. vol. 167; p. 9.
Calendar and date-finder, Perpetual. J. C. Fowler. No. 1,004,158; Sept. 26; Sp. p. 4392; Gaz. vol. 170; p. 777.
Calendar date-indicator. C. D. Williams. No. 1,007,760; Nov. 7; Sp. p. 240; Gaz. vol. 172; p. 39.
Calendar-pad support. J. R. Wilson. No. 1,008,509; Nov. 14; Sp. p. 1997; Gaz. vol. 172; p. 341.
Calendars, Self-acting clockwork device for tearing the leaves off block-. I. Schwarz. No. 990,459; Apr. 25; Sp. p. 4695; Gaz. vol. 165; p. 825.
Calender. A. Olier. No. 1,003,496; Sept. 19; Sp. p. 2843; Gaz. vol. 170; p. 520.
Calendering-machine doctor. J. T. Dillon. No. 1,005,175; Oct. 10; Sp. p. 1289; Gaz. vol. 171; p. 240.
Calf-wheel reel. T. A. Beecher. No. 1,007,417; Oct. 31; Sp. p. 6298; Gaz. vol. 171; p. 1145.
Calipering device for sheet-gathering machines. C. L. Smith and A. O. Gullberg. No. 997,334; July 11; Sp. p. 1559; Gaz. vol. 168; p. 282.
Calipers. J. H. Rogers and S. E. Creech. No. 982,635; Jan. 24; Sp. p. 5394; Gaz. vol. 162; p. 931.
Calipers. J. A. Muzzio. No. 988,588; Apr. 4; Sp. p. 650; Gaz. vol. 165; p. 104.
Calipers. J. Zherdeff. No. 993,810; May 30; Sp. p. 6416; Gaz. vol. 166; p. 1156.
Calipers. S. A. Minnick and A. L. Smith. No. 1,000,835; Aug. 15; Sp. p. 3488; Gaz. vol. 169; p. 627.
Calipers. W. Speer. No. 1,007,400; Oct. 31; Sp. p. 6261; Gaz. vol. 171; p. 1139.
Calipers and dividers. W. A. Peck. No. 1,001,219; Aug. 22; Sp. p. 4348; Gaz. vol. 169; p. 791.
Calipers, Micrometer-. F. O. Jaques, Sr. No. 990,655; Apr. 25; Sp. p. 5146; Gaz. vol. 165; p. 892.
Calipers, Micrometer-. F. Spalding. No. 1,001,471; Aug. 22; Sp. p. 4858; Gaz. vol. 169; p. 877.
Calipers, Micrometer-. R. C. Keppie. No. 1,006,660; Oct. 24; Sp. p. 4634; Gaz. vol. 171; p. 826.
Calipers, Poising-. F. R. Cunningham. No. 984,354; Feb. 14; Sp. p. 2385; Gaz. vol. 163; p. 403.
Calipers, Poising-. J. E. Kampe. No. 1,001,278; Aug. 22; Sp. p. 4464; Gaz. vol. 169; p. 811.
Calipers, Vernier-. H. Hauser. No. 1,002,149; Aug. 29; Sp. p. 6275; Gaz. vol. 169; p. 1134.
Calk for horses, Detachable. L. D. Jones. No. 996,720; July 4; Sp. p. 247; Gaz. vol. 168; p. 43.
Calk-former. E. N. Childs and C. McMillen. No. 984,194; Feb. 14; Sp. p. 2024; Gaz. vol. 163; p. 348.
Calk-former. C. McMillen. No. 1,006,580; Oct. 24; Sp. p. 4478; Gaz. vol. 171; p. 799.
Calorimeter. G. M. Evans and J. S. Beckett. No 1,000,082; Aug. 8; Sp. p. 1840; Gaz. vol. 169; p. 333.
Calorimeter. S. A. Reeve. No. 1,008,065; Nov. 7; Sp. p. 898; Gaz. vol. 172; p. 144.
Cam brake, Eccentric-. A. Lathrop, J. M. Schweizer, and W. T. Johnston. No. 989,374; Apr. 11; Sp. p. 2294; Gaz. vol. 165; p. 388.
Cam mechanism. P. W. Hodgkinson. No. 1,012,851; Dec. 26; Sp. p. 5468; Gaz. vol. 173; p. 967.
Camera. M. Niéll. No. 982,849; Jan. 31; Sp. p. 5859; Gaz. vol. 162; p. 1031.
Camera. D. J. Gallagher. No. 988,183; Mar. 28; Sp. p. 5158; Gaz. vol. 164; p. 915.
Camera. W. F. Folmer. No. 993,047; May 23; Sp. p. 4762; Gaz. vol. 166; p. 866.
Camera. S. J. West. No. 997,886; July 11; Sp. p. 2750; Gaz. vol. 168; p. 471.
Camera. O. W. Plant. No. 1,000,343; Aug. 8; Sp. p. 2383; Gaz. vol. 169; p. 421.
Camera and film-package therefor. E. E. Cole. No. 981,064; Jan. 10; Sp. p. 2048; Gaz. vol. 162; p. 337.
Camera attachment. A. E. Swoyer. No. 991,390; May 2; Sp. p. 1208; Gaz. vol. 166; p. 201.
Camera attachment. E. N. White. No. 1,006,161; Oct. 17; Sp. p. 3500; Gaz. vol. 171; p. 620.
Camera exposure-indicator. C. G. Ives. No. 995,870; June 20; Sp. p. 3894; Gaz. vol. 167; p. 676.
Camera focusing attachment. C. Levey. No. 1,008,418; Nov. 14; Sp. p. 1783; Gaz. vol. 172; p. 310.
Camera focusing device. A. S. Grant. No. 983,047; Jan. 31; Sp. p. 6318; Gaz. vol. 162; p. 1098.
Camera, Magazine-. T. Zabrocki. No. 990,941; May 2; Sp. p. 242; Gaz. vol. 166; p. 42.
Camera, Magazine developing-. C. F. Spery. No. 1,003,533; Sept. 19; Sp. p. 2920; Gaz. vol. 170; p. 533.
Camera, Magazine developing-. P. F. Spery. No. 1,003,534; Sept. 19; Sp. p. 2924; Gaz. vol. 170; p. 534.
Camera, Photographic. C. E. Hutchings. No. 987,366; Mar. 21; Sp. p. 3394; Gaz. vol. 164; p. 609.
Camera, Photographic. P. Kaemmerer. No. 989,784; Apr. 18; Sp. p. 3198; Gaz. vol. 165; p. 561.
Camera, Photographic. R. Goldstein. No. 990,727; Apr. 25; Sp. p. 5307; Gaz. vol. 165; p. 915.
Camera, Photographic. I. A. Bell. No. 999,949; Aug. 8; Sp. p. 1519; Gaz. vol. 169; p. 287.
Camera, Photographic. J. Goddard. No. 1,001,387; Aug. 22; Sp. p. 4712; Gaz. vol. 169; p. 850.
Camera, Photographic. F. B. Core. No. 1,012,603; Dec. 26; Sp. p. 4882; Gaz. vol. 173; p. 879.
Camera, Photographic magazine-. R. Goldstein. No. 1,007,440; Oct. 31; Sp. p. 6347; Gaz. vol. 171; p. 1153.
Camera, Revolving-back. J. Goddard. No. 1,001,386; Aug. 22; Sp. p. 4710; Gaz. vol. 169; p. 849.
Camera-shutter. J. C. Dassler. No. 983,027; Jan. 31; Sp. p. 6274; Gaz. vol. 162; p. 1091.
Camera-shutter. J. H. Polberg. No. 992,054; May 9; Sp. p. 2576; Gaz. vol. 166; p. 458.
Camera-shutter. G. E. Schuele. No. 996,888; July 4; Sp. p. 596; Gaz. vol. 168; p. 98.
Camera-shutters and means for operating the same. L. C. Knee. No. 1,001,048; Aug. 22; Sp. p. 4004; Gaz. vol. 169; p. 736.
Camera-support. H. B. Shaw. No. 1,006,693; Oct. 24; Sp. p. 4700; Gaz. vol. 171; p. 837.
Cameras, Multiple-exposure attachment for. J. C. Drake. No. 982,707; Jan. 24; Sp. p. 5545; Gaz. vol. 162; p. 955.
Cameras, Screen and plate holder for engravers'. U. M. Norton. No. 982,294; Jan. 24; Sp. p. 4703; Gaz. vol. 162; p. 813.
Cameras, Solution-drain for plate-holders of. J. B. Levy. No. 1,003,475; Sept. 19; Sp. p. 2805; Gaz. vol. 170; p. 513.
Camper's-outfit box. W. L. Spade. No. 1,002,937; Sept. 12; Sp. p. 1699; Gaz. vol. 170; p. 294.
Camping accessory. S. E. Creasey. No. 1,011,585; Dec. 12; Sp. p. 2702; Gaz. vol. 173; p. 453.
Camphor in shaped pieces, Producing transparent. O. R. D. Witt. No. 995,510; June 20; Sp. p. 3083; Gaz. vol. 167; p. 549.
Camphor, Manufacture of. J. Schmitz and G. Stalmann. No. 989,651; Apr. 18; Sp. p. 2920; Gaz. vol. 165; p. 515.
Camphor, Preparing. O. Aschan and W. Kempe. No. 994,437; June 6; Sp. p. 696; Gaz. vol. 167; p. 119.

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Can: *See* Cold-dispensing can; Collapsible-handle can; Cooling-can; Dairy-can; Display-can; Drip-can; Eyelet-baking can; Garbage-can; Gasolene-can; Heat-insulated can; Ice-can; Insulated can; Milk-can; Oil-can; Oiling-can; Oyster-can; Refrigerator-can; Safety-can; Sealed can; Sheet-metal can; Tobacco-can; Waste-can.
Can. E. Eckart. No. 983,883; Feb. 14; Sp. p. 1368; Gaz. vol. 163; p. 246.
Can. I. E. Sexton. No. 985,377; Feb. 28; Sp. p. 4584; Gaz. vol. 163; p. 822.
Can. W. J. Chambers. No. 1,002,965; Sept. 12; Sp. p. 1750; Gaz. vol. 170; p. 304.
Can. O. Ducker. No. 1,009,654; Nov. 21; Sp. p. 4479; Gaz. vol. 172; p. 771.
Can and opener therefor. E. Carman. No. 999,957; Aug. 8; Sp. p. 1534; Gaz. vol. 169; p. 289.
Can attachment, Ash-. B. F. Harding. No. 1,002,395; Sept. 5; Sp. p. 506; Gaz. vol. 170; p. 71.
Can attachment, Oil-. J. W. Larimore. No. 994,938; June 13; Sp. p. 1866; Gaz. vol. 167; p. 328.
Can bodies and heads, Assembling mechanism for. J. A. Gray. No. 994,456; June 6; Sp. p. 723; Gaz. vol. 167; p. 124.
Can bodies and heads, Machine for uniting. J. A. Gray. No. 1,010,617; Dec. 5; Sp. p. 486; Gaz. vol. 173; p. 76.
Can-body forming, locking, and soldering machine. W. H. H. Stevenson. No. 997,021; July 4; Sp. p. 917; Gaz. vol. 168; p. 145.
Can-body-making machine. W. E. Taylor. No. 1,002,339; Sept. 5; Sp. p. 368; Gaz. vol. 170; p. 52.
Can-cap-applying machine. T. H. Raney. No. 984,966; Feb. 21; Sp. p. 3672; Gaz. vol. 163; p. 648.
Can-cap-feeding machine. G. Cooper. No. 985,008; Feb. 21; Sp. p. 3745; Gaz. vol. 163; p. 662.
Can cleaner, Milk-. R. J. Owens. No. 1,009,170; Nov. 21; Sp. p. 3414; Gaz. vol. 172; p. 604.
Can-closure. A. F. Smith. No. 1,008,743; Nov. 14; Sp. p. 2522; Gaz. vol. 172; p. 425.
Can-closure lock. F. B. Heiser. No. 991,982; May 9; Sp. p. 2449; Gaz. vol. 166; p. 435.
Can closure, Oil-. M. B. Luchsinger. No. 994,943; June 13; Sp. p. 1877; Gaz. vol. 167; p. 330.
Can containing and pouring vessel. C. Honour. No. 1,006,217; Oct. 17; Sp. p. 3643; Gaz. vol. 171; p. 641.
Can-cover. J. B. Conover. No. 981,384; Jan. 10; Sp. p. 2761; Gaz. vol. 162; p. 448.
Can-cover. W. F. Burnett. No. 1,000,373; Aug. 15; Sp. p. 2475; Gaz. vol. 169; p. 463.
Can-cover-lining machine. L. C. Sharp. No. 1,004,699; Oct. 3; Sp. p. 316; Gaz. vol 171; p. 55.
Can cover, Milk-. W. L. Coates. No. 997,180; July 4; Sp. p. 1233; Gaz. vol. 168; p. 199.
Can-cover, Milk-. R. Bray. No. 998,070; July 18; Sp. p. 3186; Gaz. vol. 168; p. 578.
Can-covering strips, Machine for securing. E. Jagenberg. No. 1,007,109; Oct. 31; Sp. p. 5632; Gaz. vol. 171; p. 1034.
Can-cutter. G. C. Percy. No. 996,671; July 4; Sp. p. 152; Gaz. vol. 168; p. 27.
Can-cutter. G. C. Percy. No. 1,007,307; Oct. 31; Sp. p. 6060; Gaz. vol. 171; p. 1106.
Can-end-feed mechanism. A. Johnson. No. 981,861; Jan. 17; Sp. p. 3753; Gaz. vol. 162; p. 634.
Can-end re-forming device. E. F. Hartlove. No. 983,278; Feb. 7; Sp. p. 44; Gaz. vol. 163; p. 9.
Can-feeder for runways. P. W. Schubert. No. 999,061; July 25; Sp. p. 5403; Gaz. vol. 168; p. 962.
Can-filling machine. B. Hausheer. No. 1,012,545; Dec. 19; Sp. p. 4748; Gaz. vol. 173; p. 816.
Can flanging and heading machine. L. C. Sharp. No. 983,002; Jan. 31; Sp. p. 6206; Gaz. vol. 162; p. 1083.
Can-head cutting and forming and flange-curling machine. E. V. Swangren. No. 984,169; Feb. 14; Sp. p. 1978; Gaz. vol. 163; p. 339.
Can-heads and can-bodies, Feed mechanism for. E. V. Swangren. No. 1,002,337; Sept. 5; Sp. p. 361; Gaz. vol. 170; p. 51.
Can-heads, Machine for applying adhesives to. P. Kruse. No. 986,469; Mar. 14; Sp. p. 1506; Gaz. vol. 164; p. 272.
Can-heads, Machine for applying adhesives to. P. Kruse. No. 986,470; Mar. 14; Sp. p. 1511; Gaz. vol. 164; p. 272.
Can-heading machine. J. A. Gray. No. 1,002,389; Sept. 5; Sp. p. 491; Gaz. vol. 170; p. 69.
Can hinged cap, Powder-. J. H. Goss. No. 1,009,239; Nov. 21; Sp. p. 3607; Gaz. vol. 172; p. 629.
Can holder, Oil-. G. W. Dunham. No. 1,011,594; Dec. 12; Sp. p. 2722; Gaz. vol. 173; p. 456.
Can indicator, Oil-. C. Scurlock. No. 980,348; Jan. 3; Sp. p. 334; Gaz. vol. 162; p. 61.
Can-lacquering machines, Cleaning mechanism for. A. Y. Seely. No. 999,186; July 25; Sp. p. 5626; Gaz. vol. 168; p. 1001.
Can-lid-opening device, Garbage-. J. A. Fraser. No. 1,012,346; Dec. 19; Sp. p. 4374; Gaz. vol. 173; p. 749.
Can lock, Milk-. G. P. Prager. No. 997,088; July 4; Sp. p. 1045; Gaz. vol. 168; p. 168.
Can lock, Milk-. V. J. Andrejkovitz. No. 1,003,313; Sept. 12; Sp. p. 2473; Gaz. vol. 170; p. 426.
Can lock, Milk-. H. Markovitz. No. 1,004,449; Sept. 26; Sp. p. 4973; Gaz. vol. 170; p. 875.
Can lock, Milk-. F. L. Holdridge. No. 1,006,944; Oct. 24; Sp. p. 5263; Gaz. vol. 171; p. 925.
Can-marking machine. J. J. Kirkby. No. 980,795; Jan. 3; Sp. p. 1317; Gaz. vol. 162; p. 212.
Can-marking machine. F. P. Ryder. No. 986,867; Mar. 14; Sp. p. 2356; Gaz. vol. 164; p. 409.
Can-marking machine. A. L. Duncan. No. 1,002,973; Sept. 12; Sp. p. 1766; Gaz. vol. 170; p. 306.
Can-opener. W. D. Priest. No. 981,686; Jan. 17; Sp. p. 3389; Gaz. vol. 162; p. 572.
Can-opener. W. B. Miller. No. 983,160; Jan. 31; Sp. p. 6524; Gaz. vol. 162; p. 1134.
Can-opener. E. A. Coll. No. 984,418; Feb. 14; Sp. p. 2505; Gaz. vol. 163; p. 424.
Can-opener. H. W. Sheehy. No. 986,319; Mar. 7; Sp. p. 1171; Gaz. vol. 164; p. 189.
Can-opener. G. A. Jaeger. No. 987,883; Mar. 28; Sp. p. 4510; Gaz. vol. 164; p. 815.
Can-opener. J. Murchie. No. 989,181; Apr. 11; Sp. p. 1867; Gaz. vol. 165; p. 324.
Can-opener. D. P. Baublits. No. 992,635; May 16; Sp. p. 3882; Gaz. vol. 166; p. 692.
Can-opener. F. Noel. No. 993,396; May 30; Sp. p. 5496; Gaz. vol. 166; p. 1012.
Can-opener. A. P. Read. No. 994,275; June 6; Sp. p. 360; Gaz. vol. 167; p. 61.
Can-opener. N. H. McPeak. No. 1,001,060; Aug. 22; Sp. p. 4027; Gaz. vol. 169; p. 741.
Can-opener. J. J. Martz. No. 1,002,068; Aug. 29; Sp. p. 6131; Gaz. vol. 169; p. 1108.
Can-opener. M. Lovejoy. No. 1,002,410; Sept. 5; Sp. p. 526; Gaz. vol. 170; p. 74.
Can-opener. D. R. Franklin. No. 1,003,246; Sept. 12; Sp. p. 2340; Gaz. vol. 170; p. 402.
Can-opener. B. O. Gibson. No. 1,004,013; Sept. 26; Sp. p. 4010; Gaz. vol. 170; p. 725.
Can-opener. H. A. Hunter. No. 1,007,285; Oct. 31; Sp. p. 6019; Gaz. vol. 171; p. 1098.
Can-opener. J. H. Buckley. No. 1,007,524; Oct. 31; Sp. p. 6535; Gaz. vol. 171; p. 1182.
Can-opener. E. Walther. No. 1,008,932; Nov. 14; Sp. p. 2898; Gaz. vol. 172; p. 486.
Can-opener. J. S. Williamson. No. 1,010,997; Dec. 5; Sp. p. 1314; Gaz. vol. 173; p. 208.
Can-opener. E. B. Moseley. No. 1,011,358; Dec. 12; Sp. p. 2175; Gaz. vol. 173; p. 370.
Can-opener. W. A. Zietzke. No. 1,012,787; Dec. 26; Sp. p. 5311; Gaz. vol. 173; p. 946.
Can-opener. A. Marchand. No. 1,012,880; Dec. 26; Sp. p. 5536; Gaz. vol. 173; p. 976.
Can opening and closing device. L. Horwâth. No. 988,780; Apr. 4; Sp. p. 1053; Gaz. vol. 165; p. 168.
Can rack, Oil-. T. Miller. No. 995,275; June 13; Sp. p. 2540; Gaz. vol. 167; p. 440.
Can receptacle, Condensed-milk-. W. L. King. No. 998,533; July 18; Sp. p. 4191; Gaz. vol. 168; p. 742.
Can-shearing machine. C. Cosby. No. 1,006,439; Oct. 17; Sp. p. 4114; Gaz. vol. 171; p. 717.
Can spout, Oil-. J. D. Melvin. No. 1,005,730; Oct. 10; Sp. p. 2540; Gaz. vol. 171; p. 437.
Can-switch. D. Vallarino. No. 988,051; Mar. 28; Sp. p. 4914; Gaz. vol. 164; p. 872.
Can-tester. C. Werner. No. 983,962; Feb. 14; Sp. p. 1538; Gaz. vol. 163; p. 270.
Can-testing machine. W. D. Brooks. No. 989,562; Apr. 18; Sp. p. 2723; Gaz. vol. 165; p. 486.
Can-testing machine. J. E. McCullough. No. 1,003,769; Sept. 19; Sp. p. 3457; Gaz. vol. 170; p. 615.
Can top, Milk-. F. Brightman. No. 999,201; Aug. 1; Sp. p. 20; Gaz. vol. 169; p. 6.
Can-top-perforating die. J. H. Kuechenmiester. No. 987,144; Mar. 21; Sp. p. 2892; Gaz. vol. 164; p. 531.
Can top, Tooth-powder-. C. Deichmiller. No. 984,752; Feb. 21; Sp. p. 3266; Gaz. vol. 163; p. 576.
Can-washing machine, Milk-. S. P. Hay. No. 990,356; Apr. 25; Sp. p. 4448; Gaz. vol. 165; p. 787.
Cans, Device for applying friction-tops to. G. W. Dunbar. No. 1,002,656; Sept. 5; Sp. p. 1052; Gaz. vol. 170; p. 157.
Cans, Machine for packing caps in. W. H. Robinson. No. 982,092; Jan. 17; Sp. p. 4283; Gaz. vol. 162; p. 713.
Cans, Making seamless-body. G. W. Weber. No. 984,173; Feb. 14; Sp. p. 1986; Gaz. vol. 163; p. 341.
Cans, Manufacturing lacquered or protective-coated. J. G. Hodgson. No. 998,176; July 18; Sp. p. 3412; Gaz. vol. 168; p. 616.
Cans, Manufacturing lacquered or protective-coated. J. G. Hodgson. No. 998,900; July 25; Sp. p. 5037; Gaz. vol. 168; p. 904.
Cans, Means for capping and performing other operations on. L. C. Sharp. No. 996,531; June 27; Sp. p. 5345; Gaz. vol. 167; p. 935
Cans, Removable spout for jacketed. J. B. Tuor. No. 984,981; Feb. 21; Sp. p. 3696; Gaz. vol. 163; p. 653.
Canned articles, Sterilizing. W. A. Carrell. No. 999,007; July 25; Sp. p. 5290; Gaz. vol. 168; p. 942.
Canning apparatus. C. A. Still, Jr. No. 981,812; Jan. 17; Sp. p. 3653; Gaz. vol. 162; p. 618.
Canning apparatus. J. Dunn. No. 1,006,371; Oct. 17; Sp. p. 3983; Gaz. vol. 171; p. 694.

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Canning meat. K. K. Schrader. No. 981,694; Jan. 17; Sp. p. 3404; Gaz. vol. 162; p. 575.
Canal-lock-gate-operating mechanism. E. Schildhauer. No. 983,937; Feb. 14; Sp. p. 1486; Gaz. vol. 163; p. 262.
Canceling-machine. C. A. Pfalzgraf. No. 993,712; May 30; Sp. p. 6211; Gaz. vol. 166; p. 1122.
Candies with sugar, Apparatus for coating. C. Mahan. No. 1,012,877; Dec. 26; Sp. p. 5530; Gaz. vol. 173; p. 975.
Candy-batch roller. N. W. York. No. 987,785; Mar. 28; Sp. p. 4277; Gaz. vol. 164; p. 780.
Candy, &c., box. C. P. Hodgson. No. 1,011,056; Dec. 5; Sp. p. 1430; Gaz. vol. 173; p. 227.
Candy-coating cooler. J. G. Barbas. No. 1,007,767; Nov. 7; Sp. p. 256; Gaz. vol. 172; p. 41.
Candy-coating machine. J. Werner. No. 991,919; May 9; Sp. p. 2328; Gaz. vol. 166; p. 414.
Candy-cooling apparatus, Chocolate-. E. J. Harter and A. J. Myers. No. 999,164; July 25; Sp. p. 5585; Gaz. vol. 168; p. 993.
Candy-crystallizer. C. E. Price. No. 1,012,011; Dec. 19; Sp. p. 3635; Gaz. vol. 173; p. 634.
Candy-depositing machine. V. C. Fuller. No. 989,700; Apr. 18; Sp. p. 3020; Gaz. vol. 165; p. 531.
Candy forming and cutting machine. S. Vessot, E. Nadeau, and A. Paquin. No. 986,878; Mar. 14; Sp. p. 2386; Gaz. vol. 164; p. 413.
Candy-machine. F. W. Lovelady and B. J. Kennedy. No. 1,002,411; Sept. 5; Sp. p. 527; Gaz. vol. 170; p. 75.
Candy-making machine. W. T. Hudson. No. 998,903; July 25; Sp. p. 5043; Gaz. vol. 168; p. 906.
Candy-package. A. F. Becker. No. 982,461; Jan. 24; Sp. p. 5064; Gaz. vol. 162; p. 874.
Candy-pulling machine. W. C. Fawkes. No. 1,010,029; Nov. 28; Sp. p. 5279; Gaz. vol. 172; p. 946.
Candy-setting machine. G. B. Nevers. No. 993,094; May 23; Sp. p. 4860; Gaz. vol. 166; p. 882.
Candle and candle-holder for use in church services. B. R. Doody. No. 987,969; Mar. 28; Sp. p. 4742; Gaz. vol. 164; p. 845.
Candle and shade holder. S. O. Elting. No. 983,126; Jan. 31; Sp. p. 6467; Gaz. vol. 162; p. 1124.
Candle emitting a colored light. R. Scheuble. No. 984,029; Feb. 14; Sp. p. 1700; Gaz. vol. 163; p. 292.
Candle for use in church services. B. R. Doody. No. 988,257; Mar. 28; Sp. p. 5305; Gaz. vol. 164; p. 939.
Candle-making machines and similar devices, Supply-valve for. E. J. Engman. No. 1,006,739; Oct. 24; Sp. p. 4790; Gaz. vol. 171; p. 852.
Candle-molding machine. F. F. Schmitt. No. 995,378; June 13; Sp. p. 2781; Gaz. vol. 167; p. 474.
Candles, Machine for and method of making. C. Nordfors. No. 1,010,788; Dec. 5; Sp. p. 868; Gaz. vol. 173; p. 136.
Candlestick. S. Bettigole. No. 1,012,973; Dec. 26; Sp. p. 5742; Gaz. vol. 173; p. 1008.
Candlestick, Miner's. H. D. Buys. No. 996,308; June 27; Sp. p. 4869; Gaz. vol. 167; p. 859.
Candlestick, Miner's folding. N. E. Varney. No. 1,011,878; Dec. 12; Sp. p. 3316; Gaz. vol. 173; p. 551.
Cane and stool, Combined. J. J. Paris. No. 984,292; Feb. 14; Sp. p. 2268; Gaz. vol. 163; p. 384.
Cane and umbrella tip protector. A. Pozzi. No. 1,007,730; Nov. 7; Sp. p. 167; Gaz. vol. 172; p. 27.
Cane, corn, &c., Machine for stripping and topping. A. Gerdes. No. 1,009,233; Nov. 21; Sp. p. 3592; Gaz. vol. 172; p. 627.
Cane-crushing mill, Sugar-. D. W. F. Maxwell. No. 1,010,164; Nov. 28; Sp. p. 5534; Gaz. vol. 172; p. 991.
Cane-crushing mills, Bearing for sugar-. W. Maxwell. No. 995,699; June 20; Sp. p. 3497; Gaz. vol. 167; p. 616.
Cane cutting and crushing machine, Sugar-. P. A. Picón. No. 991,360; May 2; Sp. p. 1147; Gaz. vol. 166; p. 191.
Cane fabrics, Machine for inserting diagonal strands in Woven-. M. B. Zimmerman. No. 1,011,701; Dec. 12; Sp. p. 2937; Gaz. vol. 173; p. 491.
Cane for sugar and wax, Treating sugar-. S. Wynberg. No. 1,009,615; Nov. 21; Sp. p. 4412; Gaz. vol. 172; p. 760.
Cane-grinding machinery. J. V. Hamilton. No. 981,643; Jan. 17; Sp. p. 3289; Gaz. vol. 162; p. 559.
Cane-juice, Treating. E. W. Deming. No. 997,605; July 11; Sp. p. 2085; Gaz. vol. 168; p. 372.
Cane-juice-treating apparatus. E. W. Deming. No. 996,911; July 4; Sp. p. 650; Gaz. vol. 168; p. 106.
Cane-knife. E. M. Hibbler. No. 982,674; Jan. 24; Sp. p. 5476; Gaz. vol. 162; p. 944.
Cane-mill roller. J. R. Marcks. No. 998,367; July 18; Sp. p. 3871; Gaz. vol. 168; p. 687.
Cane or crutch tip. J. H. Reading. No. 990,006; Apr. 18; Sp. p. 3680; Gaz. vol. 165; p. 637.
Cane-sling. P. E. Sevin and S. P. Roussel. No. 994,608; June 6; Sp. p. 1050; Gaz. vol. 167; p. 175.
Cane stripper and topper. H. T. Beauregard. No. 990,215; Apr. 25; Sp. p. 4117; Gaz. vol. 165; p. 737.
Canister, Coffee-grain-serving. E. Schwartz. No. 1,011,859; Dec. 12; Sp. p. 3276; Gaz. vol. 173; p. 544.
Cannon, Automatic rapid-fire. K. Völler. No. 993,741; May 30; Sp. p. 6275; Gaz. vol. 166; p. 1133.
Cannon-recoil-checking mechanism. F. B. Yingling. No. 1,010,564; Dec. 5; Sp. p. 357; Gaz. vol. 173; p. 57.
Canoe and other small craft. O. Evinrude. No. 1,011,930; Dec. 19; Sp. p. 3455; Gaz. vol. 173; p. 604.
Canoe, Folding. A. A. Henrikson. No. 981,191; Jan. 10; Sp. p. 2309; Gaz. vol. 162; p. 381.
Canopy. A. L. Hancock. No. 983,276; Feb. 7; Sp. p. 36; Gaz. vol. 163; p. 8.
Canopy. F. S. Westbrook. No. 1,007,829; Nov. 7; Sp. p. 408; Gaz. vol. 172; p. 64.
Canopy for draft-animals, Adjustable. L. F. Haggardt. No. 998,506; July 18; Sp. p. 4133; Gaz. vol. 168; p. 733.
Canopy-shade. A. P. Storrs. No. 994,211; June 6; Sp. p. 231; Gaz. vol. 167; p. 39.
Canopy-support. A. S. Goddard. No. 1,010,041; Nov. 28; Sp. p. 5301; Gaz. vol. 172; p. 950.
Canopy-switch. R. B. Benjamin. No. 982,345; Jan. 24; Sp. p. 4797; Gaz. vol. 162; p. 831.
Canvas and other fabrics, Composition for treating. M. A. Roessig. No. 988,388; Apr. 4; Sp. p. 215; Gaz. vol. 165; p. 35.
Canvas, Draper-. J. I. Weber. No. 1,012,486; Dec. 19; Sp. p. 4632; Gaz. vol. 173; p. 795.
Canvas for special purposes, Treating. C. W. Foster. No. 996,325; June 27; Sp. p. 4910; Gaz. vol. 167; p. 865.
Caoutchouc-like substance from animal matter, Manufacture of an elastic. W. van der Heyden. No. 993,626; May 30; Sp. p. 6005; Gaz. vol. 166; p. 1092.
Cap. J. Miller. No. 1,008,425; Nov. 14; Sp. p. 1795; Gaz. vol. 172; p. 312.
Cap. E. M. Crane. No. 1,012,988; Dec. 26; Sp. p. 5787; Gaz. vol. 173; p. 1012.
Cap and hat shape retainer. B. J. Levin. No. 999,322; Aug. 1; Sp. p. 244; Gaz. vol. 169; p. 45.
Cap and oil-cup, Combined. R. McNaughton. No. 991,163; May 2; Sp. p. 717; Gaz. vol. 166; p. 121.
Cap-exploding device. A. F. Lent. No. 1,002,811; Sept. 5; Sp. p. 1387; Gaz. vol. 170; p. 211.
Cap lifting and moving device. H. F. Hitner. No. 980,951; Jan. 10; Sp. p. 1714; Gaz. vol. 162; p. 295.
Cap, Miner's. S. J. Skelding. No. 1,007,984; Nov. 7; Sp. p. 744; Gaz. vol. 172; p. 117.
Cap or hair-guard, Toilet. I. Hill. No. 1,002,060; Aug. 29; Sp. p. 6117; Gaz. vol. 169; p. 1105.
Cap or headwear. A. J. Novoson. No. 995,029; June 13; Sp. p. 2052; Gaz. vol. 167; p. 359.
Caps in a holder, Machine for assembling. H. A. Stillwell. No. 992,922; May 23; Sp. p. 4487; Gaz. vol. 166; p. 823.
Cape or similar garment. J. Lederer. No. 997,304; July 11; Sp. p. 1492; Gaz. vol. 168; p. 272.
Capo tasto. C. W. Moore. No. 1,007,960; Nov. 7; Sp. p. 704; Gaz. vol. 172; p. 109.
Caponizing instrument. G. Beuoy and G. H. Loshbough. No. 1,002,961; Sept. 12; Sp. p. 1744; Gaz. vol. 170; p. 301.
Capsule-charging device. D. Brescia. No. 980,756; Jan. 3; Sp. p. 1237; Gaz. vol. 162; p. 198.
Capsule-filler. H. Laval. No. 992,886; May 23; Sp. p. 4411; Gaz. vol. 166; p. 809.
Capsules for bottles and the like, Contrivance for making. E. A. Stratton. No. 1,012,026; Dec. 19; Sp. p. 3675; Gaz. vol. 173; p. 639.
Car. F. R. Stehm. No. 982,103; Jan. 17; Sp. p. 4301; Gaz. vol. 162; p. 717.
Car. W. P. Murphy. No. 983,302; Feb. 7; Sp. p. 97; Gaz. vol. 163; p. 17.
Car. F. X. Malocsay. No. 988,363; Apr. 4; Sp. p. 151; Gaz. vol. 165; p. 27.
Car. F. X. Malocsay. No. 990,574; Apr. 25; Sp. p. 4958; Gaz. vol. 165; p. 865.
Car. F. X. Malocsay. No. 997,200; July 4; Sp. p. 1264; Gaz. vol. 168; p. 206.
Car. C. Wolf. No. 998,222; July 18; Sp. p. 3515; Gaz. vol. 168; p. 632.
Car. F. S. Ingoldsby. No. 999,791; Aug. 8; Sp. p. 1186; Gaz. vol. 169; p. 233.
Car. F. S. Ingoldsby. No. 1,000,176; Aug. 8; Sp. p. 2040; Gaz. vol. 169; p. 364.
Car. F. S. Ingoldsby. No. 1,000,177; Aug. 8; Sp. p. 2046; Gaz. vol. 169; p. 365.
Car. F. G. Borg. No. 1,000,891; Aug. 15; Sp. p. 3603; Gaz. vol. 169; p. 648.
Car. J. J. Tatum. No. 1,005,757; Oct. 10; Sp. p. 2595; Gaz. vol. 171; p. 447.
Car. A. G. McKee. No. 1,011,219; Dec. 12; Sp. p. 1845; Gaz. vol. 173; p. 320.
Car anchor, Tank-. L. E. Keller. No. 991,319; May 2; Sp. p. 1061; Gaz. vol. 166; p. 177.
Car and apartment heating and ventilating system. M. McGerry. No. 986,731; Mar. 14; Sp. p. 2063; Gaz. vol. 164; p. 362.
Car and other vehicle fender. J. A. Wiedersheim. No. 1,007,318; Oct. 31; Sp. p. 6094; Gaz. vol. 171; p. 1110.
Car and the like, Cinder-. E. C. Sherman. No. 997,639; July 11; Sp. p. 2177; Gaz. vol. 168; p. 385.
Car and the like, Mine-. W. B. Lloyd. No. 1,003,477; Sept. 19; Sp. p. 2810; Gaz. vol. 170; p. 514.
Car and the like, Transportation-. B. A. Hegeman, Jr. No. 1,008,033; Nov. 7; Sp. p. 835; Gaz. vol. 172; p. 133.
Car and vehicle loader. W. D. Mount. No. 985,436; Feb. 28; Sp. p. 4735; Gaz. vol. 163; p. 842.

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Car and wagon, Hopper. C. K. Probes. No. 984,105; Feb. 14; Sp. p. 1855; Gaz. vol. 163; p. 319.
Car antifriction side bearing, Railway-. J. F. O'Connor No. 983,080; Jan. 31; Sp. p. 6382; Gaz. vol. 162; p. 1109.
Car antifriction side bearing, Railway-. H. M. Perry. No. 997,847; July 11; Sp. p. 2167; Gaz. vol. 168; p. 458.
Car attachment, Freight-. L. Kasmaker. No. 1,010,375; Nov. 28; Sp. p. 5972; Gaz. vol. 172; p. 1061.
Car-axles, Means for driving generators from. W. I. Thomson. No. 986,656; Mar. 14; Sp. p. 1917; Gaz. vol. 164; p. 338.
Car body and underframe construction. O. S. Pulliam. No. 999,256; Aug. 1; Sp. p. 128; Gaz. vol. 169; p. 24.
Car-body-frame construction. M. M. Schneider. No. 1,006,136; Oct. 17; Sp. p. 3439; Gaz. vol. 171; p. 611.
Car-bolster. J. Pearson. No. 989,998; Apr. 18; Sp. p. 3667; Gaz. vol. 165; p. 635.
Car-bolster. M. D. Stewart. No. 992,285; May 16; Sp. p. 3120; Gaz. vol. 166; p. 568.
Car-bolster chafing-plate. T. H. Russum. No. 993,717; May 30; Sp. p. 6220; Gaz. vol. 166; p. 1124.
Car-bolster construction, Railway-. J. R. Carmer. No. 984,348; Feb. 14; Sp. p. 2375; Gaz. vol. 163; p. 402.
Car-brace. H. Schuneman, Jr. No. 988,825; Apr. 4; Sp. p. 1140; Gaz. vol. 165; p. 182.
Car-brake. R. V. Porter. No. 981,941; Jan. 17; Sp. p. 3976; Gaz. vol. 162; p. 663.
Car-brake. R. E. Wilson. No. 981,963; Jan. 17; Sp. p. 4020; Gaz. vol. 162; p. 671.
Car-brake. C. A. Barr. No. 987,534; Mar. 21; Sp. p. 3722; Gaz. vol. 164; p. 665.
Car-brake. W. J. Hill. No. 989,360; Apr. 11; Sp. p. 2264; Gaz. vol. 165; p. 384.
Car-brake. R. McCloskey. No. 989,790; Apr. 18; Sp. p. 3225; Gaz. vol. 165; p. 563.
Car-brake. D. S. Stauffer. No. 994,041; May 30; Sp. p. 6866; Gaz. vol. 166; p. 1233.
Car-brake. E. G. Lofgren. No. 1,000,684; Aug. 15; Sp. p. 3172; Gaz. vol. 169; p. 574.
Car-brake. F. M. Blake. No. 1,001,499; Aug. 22; Sp. p. 4903; Gaz. vol. 169; p. 886.
Car-brake. C. V. Rote. No. 1,006,682; Oct. 24; Sp. p. 4683; Gaz. vol. 171; p. 834.
Car-brake. F. Gostiner. No. 1,009,505; Nov. 21; Sp. p. 4211; Gaz. vol. 172; p. 725.
Car-brake, Automatic. T. S. Hauser. No. 997,810; July 11; Sp. p. 2595; Gaz. vol. 168; p. 445.
Car-brake gear. C. H. Howard and H. M. Pflager. No. 991,850; May 9; Sp. p. 2188; Gaz. vol. 166; p. 390.
Car brake-gear, Railway-. H. M. Pflager. No. 996,134; June 27; Sp. p. 4430; Gaz. vol. 167; p. 802.
Car-brake-leverage adjustment. T. F. Bellhouse. No. 993,947; May 30; Sp. p. 6676; Gaz. vol. 166; p. 1201.
Car-brake. Load-equalizing. J. R. Stiegelmeyer. No. 1,007,155; Oct. 31; Sp. p. 5741; Gaz. vol. 171; p. 1052.
Car brake, Mine-. T. Stacey. No. 984,045; Feb. 14; Sp. p. 1728; Gaz. vol. 163; p. 298.
Car-brake-operating mechanism. R. H. Minich. No. 996,111; June 27; Sp. p. 4384; Gaz. vol. 167; p. 794.
Car brake-pipe, Railway-. E. Witzenmann. No. 995,209; June 13; Sp. p. 2402; Gaz. vol. 167; p. 417.
Car brake, Railway-. C. H. Howard and H. M. Pflager. No. 992,197; May 16; Sp. p. 2893; Gaz. vol. 166; p. 539.
Car brake, Railway-. B. A. Pillow. No. 994,657; June 6; Sp. p. 1173; Gaz. vol. 167; p. 192.
Car brake, Railway-. H. E. Saylor, H. S. Hedrick, and F. P. Gladfelter. No. 994,791; June 13; Sp. p. 1512; Gaz. vol. 167; p. 278.
Car brake, Railway-. L. De Vito. No. 1,008,795; Nov. 14; Sp. p. 2638; Gaz. vol. 172; p. 442.
Car brake, Railway-. C. H. Howard and H. M. Pflager. No. 1,010,496; Dec. 5; Sp. p. 213; Gaz. vol. 173; p. 35.
Car brake, Railway-motor-. C. G. Mahana, W. S. Hovey, and C. B. Stebbins. No. 997,571; July 11; Sp. p. 2018; Gaz. vol. 168; p. 360.
Car brake-rigging, Adjusting apparatus for brake-beams in street-. L. E. Oliver and A. Cureton. No. 999,849; Aug. 8; Sp. p. 1296; Gaz. vol. 169; p. 251.
Car-buffer. T. L. McKeen. No. 985,533; Feb. 28; Sp. p. 4960; Gaz. vol. 163; p. 877.
Car-buffer. P. Greffin. No. 1,002,263; Sept. 5; Sp. p. 173; Gaz. vol. 170; p. 22.
Car buffer and fender, Electric-railway-. J. H. E. Branson, W. H. Quick, and T. F. Mackell. No. 1,010,719; Dec. 5; Sp. p. 712; Gaz. vol. 173; p. 112.
Car buffing mechanism, Passenger-. R. D. Gallagher, Jr. No. 994,740; June 13; Sp. p. 1407; Gaz. vol. 167; p. 261.
Car center-bearing. W. J. Stewart and J. D. McKinnon. No. 990,308; Apr. 25; Sp. p. 4349; Gaz. vol. 165; p. 771.
Car center-bearing. J. J. Hennessey. No. 1,009,306; Nov. 21; Sp. p. 3752; Gaz. vol. 172; p. 654.
Car-chain. J. McDonald. No. 1,000,930; Aug. 15; Sp. p. 3683; Gaz. vol. 169; p. 661.
Car construction. H. M. Pflager. No. 995,560; June 20; Sp. p. 3188; Gaz. vol. 167; p. 567.
Car construction. H. M. Pflager. No. 999,253; Aug. 1; Sp. p. 122; Gaz. vol. 169; p. 22.
Car construction. J. O. Neikirk and F. Seaberg. No. 1,011,235; Dec. 12; Sp. p. 1880; Gaz. vol. 173; p. 325.
Car construction or the like, Dump-. J. Pearson. No. 986,309; Mar. 7; Sp. p. 1150; Gaz. vol. 164; p. 185.
Car controller, Electric-. H. T. Maib and E. O. Rowe. No. 1,005,445; Oct. 10; Sp. p. 1910; Gaz. vol. 171; p. 337.
Car, Convertible. M. Wiza. No. 987,527; Mar. 21; Sp. p. 3713; Gaz. vol. 164; p. 663.
Car, Convertible amusement and dining. C. H. Packard. No. 1,002,863; Sept. 12; Sp. p. 1522; Gaz. vol. 170; p. 267.
Car, Convertible stock and box. H. P. Howard. No. 1,011,796; Dec. 12; Sp. p. 3142; Gaz. vol. 173; p. 524.
Car, Convertible street-. P. L. Johnson. No. 1,011,802; Dec. 12; Sp. p. 3155; Gaz. vol. 173; p. 527.
Car-cooling device. J. D. Cunningham. No. 1,008,703; Nov. 14; Sp. p. 2432; Gaz. vol. 172; p. 411.
Car-coupling. M. A. Brown. No. 981,746; Jan. 17; Sp. p. 3496; Gaz. vol. 162; p. 593.
Car-coupling. H. W. Sanford. No. 982,999; Jan. 31; Sp. p. 6200; Gaz. vol. 162; p. 1081.
Car-coupling. L. M. Stought. No. 983,847; Feb. 7; Sp. p. 1267; Gaz. vol. 163; p. 203.
Car-coupling. W. A. Palmer. No. 984,390; Feb. 14; Sp. p. 2457; Gaz. vol. 163; p. 415.
Car-coupling. W. S. Lennon. No. 984,946; Feb. 21; Sp. p. 3638; Gaz. vol. 163; p. 642.
Car-coupling. J. A. Beamer. No. 984,997; Feb. 21; Sp. p. 3724; Gaz. vol. 163; p. 658.
Car-coupling. J. G. Robinson. No. 985,450; Feb. 28; Sp. p. 4767; Gaz. vol. 163; p. 848.
Car-coupling. S. F. Klohs. No. 987,997; Mar. 28; Sp. p. 4792; Gaz. vol. 164; p. 854.
Car-coupling. H. Donnelly. No. 989,236; Apr. 11; Sp. p. 1988; Gaz. vol. 165; p. 342.
Car-coupling. O. Starling. No. 989,439; Apr. 11; Sp. p. 2428; Gaz. vol. 165; p. 410.
Car-coupling. A. Tawlks. No. 990,349; Apr. 25; Sp. p. 4438; Gaz. vol. 165; p. 785.
Car-coupling. F. O. Jones. No. 991,209; May 2; Sp. p. 816; Gaz. vol. 166; p. 138.
Car-coupling. R. E. L. Janney and E. P. Kinne. No. 991,782; May 9; Sp. p. 2034; Gaz. vol. 166; p. 366.
Car-coupling. R. E. L. Janney. No. 991,783; May 9; Sp. p. 2036; Gaz. vol. 166; p. 366.
Car-coupling. H. T. Krakau. No. 991,858; May 9; Sp. p. 2201; Gaz. vol. 166; p. 393.
Car-coupling. P. Winsor. No. 992,319; May 16; Sp. p. 3206; Gaz. vol. 166; p. 582.
Car-coupling. J. L. Fitzpatrick and L. S. Moore. No. 996,072; June 27; Sp. p. 4303; Gaz. vol. 167; p. 781.
Car-coupling. C. A. Tower. No. 997,219; July 4; Sp. p. 1307; Gaz. vol. 168; p. 213.
Car-coupling. C. A. Tower. No. 999,915; Aug. 8; Sp. p. 1448; Gaz. vol. 169; p. 275.
Car-coupling. C. A. Tower. No. 999,916; Aug. 8; Sp. p. 1450; Gaz. vol. 169; p. 275.
Car-coupling. C. Rosenzweig. No. 1,002,321; Sept. 5; Sp. p. 315; Gaz. vol. 170; p. 44.
Car-coupling. J. Kelso. No. 1,002,918; Sept. 12; Sp. p. 1664; Gaz. vol. 170; p. 288.
Car-coupling. C. S. Bennett. No. 1,003,323; Sept. 12; Sp. p. 2494; Gaz. vol. 170; p. 429.
Car-coupling. H. Donnelly. No. 1,003,716; Sept. 19; Sp. p. 3341; Gaz. vol. 170; p. 598.
Car-coupling. J. Zilius. No. 1,008,001; Nov. 7; Sp. p. 775; Gaz. vol. 172; p. 122.
Car-coupling. J. A. Sterner. No. 1,008,872; Nov. 14; Sp. p. 2783; Gaz. vol. 172; p. 466.
Car-coupling. E. P. Kinne. No. 1,009,419; Nov. 21; Sp. p. 4033; Gaz. vol. 172; p. 696.
Car-coupling. E. P. Kinne. No. 1,009,976; Nov. 28; Sp. p. 5149; Gaz. vol. 172; p. 927.
Car-coupling. R. E. L. Janney. No. 1,010,055; Nov. 28; Sp. p. 5329; Gaz. vol. 172; p. 955.
Car-coupling. R. E. L. Janney. No. 1,010,056; Nov. 28; Sp. p. 5330; Gaz. vol. 172; p. 955.
Car-coupling. J. M. GoodKnight. No. 1,010,136; Nov. 28; Sp. p. 5484; Gaz. vol. 172; p. 982.
Car-coupling. W. S. Schroeder. No. 1,010,810; Dec. 5; Sp. p. 908; Gaz. vol. 173; p. 143.
Car-coupling. W. H. Simons. No. 1,011,505; Dec. 12; Sp. p. 2481; Gaz. vol. 173; p. 423.
Car-coupling. H. F. Pope. No. 1,011,843; Dec. 12; Sp. p. 3243; Gaz. vol. 173; p. 540.
Car-coupling, Emergency. E. Posson. No. 1,009,174; Nov. 21; Sp. p. 3421; Gaz. vol. 172; p. 605.
Car coupling, Logging-. M. E. Spears. No. 999,348; Aug. 1; Sp. p. 304; Gaz. vol. 169; p. 54.
Car-coupling mechanism. A. A. Rosengren. No. 1,001,890; Aug. 29; Sp. p. 5765; Gaz. vol. 169; p. 1051.
Car coupling, Railway-. E. P. Kinne. No. 990,363; Apr. 25; Sp. p. 4462; Gaz. vol. 165; p. 790.
Car coupling, Railway-. J. F. and V. S. Durbin. No. 1,000,591; Aug. 15; Sp. p. 2968; Gaz. vol. 169; p. 543.
Car coupling, Railway-. S. D. Rich. No. 1,002,178; Aug. 29; Sp. p. 6329; Gaz. vol. 169; p. 1144.
Car-coupling-releasing means. J. W. Foizey. No. 999,021; July 25; Sp. p. 5323; Gaz. vol. 168; p. 947.
Car-coupling repair attachment. C. F. Sullivan. No. 983,412; Feb. 7; Sp. p. 327; Gaz. vol. 163; p. 55.

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Car-coupling safety appliance. R. E. Crowley. No. 981,067; Jan. 10; Sp. p. 2053; Gaz. vol. 162; p. 338.
Car-coupling safety appliance. R. E. Crowley. No. 1,004,999; Oct. 3; Sp. p. 946; Gaz. vol. 171; p. 157.
Car-coupling uncoupling device. T. N. Russell. No. 1,009,183; Nov. 21; Sp. p. 3447; Gaz. vol. 172; p. 609.
Car-coupling uncoupling-rod. W. E. Coffin. No. 1,012,986; Dec. 26; Sp. p. 5784; Gaz. vol. 173; p. 1012.
Car-couplings, Adjusting device for. F. H. Wendt. No. 1,007,997; Nov. 7; Sp. p. 769; Gaz. vol. 172; p. 121.
Car-couplings, Automatic uncoupling device for. J. F. Robertson. No. 982,532; Jan. 24; Sp. p. 5206; Gaz. vol. 162; p. 898.
Car-couplings, Auxiliary connection for. C. H. McLaughlin. No. 1,003,771; Sept. 19; Sp. p. 3467; Gaz. vol. 170; p. 616.
Car-couplings, Chain-hole cover-plate for. W. E. Coffin. No. 997,181; July 4; Sp. p. 1234; Gaz. vol. 168; p. 200.
Car-derailer. M. A. Dow. No. 997,607; July 11; Sp. p. 2088; Gaz. vol. 168; p. 373.
Car-derailer. J. A. Browning. No. 1,001,927; Aug. 29; Sp. p. 5850; Gaz. vol. 169; p. 1063.
Car-derailing device. C. W. Reinoehl and W. M. Henderson. No. 987,401; Mar. 21; Sp. p. 3475; Gaz. vol. 164; p. 621.
Car-derailing device, Mine-. F. W. Byrne. No. 990,703; Apr. 25; Sp. p. 5260; Gaz. vol. 165; p. 908.
Car-door. F. E. Staley and J. M. Fletcher. No. 981,709; Jan. 17; Sp. p. 3425; Gaz. vol. 162; p. 580.
Car-door. L. A. Sherman. No. 982,099; Jan. 17; Sp. p. 4294; Gaz. vol. 162; p. 715.
Car-door. W. L. Blennerhassett. No. 982,787; Jan. 31; Sp. p. 5727; Gaz. vol. 162; p. 1010.
Car-door. P. J. Huot. No. 988,100; Mar. 28; Sp. p. 5015; Gaz. vol. 164; p. 889.
Car-door. A. Olson. No. 989,032; Apr. 11; Sp. p. 1558; Gaz. vol. 165; p. 272.
Car-door. J. Foyen. No. 989,495; Apr. 11; Sp. p. 2532; Gaz. vol. 165; p. 429.
Car-door. R. B. Friend and C. Liverman. No. 990,537; Apr. 25; Sp. p. 4892; Gaz. vol. 165; p. 853.
Car-door. F. Cronemiller. No. 994,062; May 30; Sp. p. 6905; Gaz. vol. 166; p. 1240.
Car-door. A. H. Glandon. No. 994,097; May 30; Sp. p. 6981; Gaz. vol. 166; p. 1252.
Car-door. H. F. Stanley, Sr. No. 994,613; June 6; Sp. p. 1062; Gaz. vol. 167; p. 177.
Car-door. W. S. Williams. No. 1,003,563; Sept. 19; Sp. p. 3016; Gaz. vol. 170; p. 544.
Car-door. A. Gillett and A. Harrity. No. 1,005,825; Oct. 17; Sp. p. 2747; Gaz. vol. 171; p. 501.
Car-door. P. M. Beard. No. 1,008,774; Nov. 14; Sp. p. 2595; Gaz. vol. 172; p. 435.
Car-door attachment. F. S. Burbee and W. H. Crist. No. 997,039; July 4; Sp. p. 954; Gaz. vol. 168; p. 152.
Car door, Box-. C. F. Allen. No. 993,744; May 30; Sp. p. 6283; Gaz. vol. 166; p. 1134.
Car-door construction, Grain-. H. W. Drew. No. 1,005,817; Oct. 17; Sp. p. 2724; Gaz. vol. 171; p. 498.
Car-door fastener. A. H. Lehmann. No. 984,485; Feb. 14; Sp. p. 2639; Gaz. vol. 163; p. 446.
Car-door fastener. G. B. Edgar, Sr. No. 995,232; June 13; Sp. p. 2457; Gaz. vol. 167; p. 425.
Car-door fastener. M. Mulholland. No. 1,003,642; Sept. 19; Sp. p. 3171; Gaz. vol. 170; p. 571.
Car-door fastener. R. Rasmussen. No. 1,011,893; Dec. 12; Sp. p. 3353; Gaz. vol. 173; p. 556.
Car-door fastening. C. K. Brooks. No. 1,012,322; Dec. 19; Sp. p. 4317; Gaz. vol. 173; p. 741.
Car door, Freight-. H. C. Percy. No. 981,793; Jan. 17; Sp. p. 3594; Gaz. vol. 162; p. 610.
Car door, Grain-. G., A. E., and C. E. Paget. No. 984,102; Feb. 14; Sp. p. 1852; Gaz. vol. 163; p. 318.
Car door, Grain-. J. E. Meyers, G. A. Hemphill, and E. Bowman. No. 984,513; Feb. 14; Sp. p. 2718; Gaz. vol. 163; p. 456.
Car door, Grain-. J. Heuchert. No. 984,560; Feb. 21; Sp. p. 2854; Gaz. vol. 163; p. 508.
Car door, Grain-. H. C. Priebe. No. 985,704; Feb. 28; Sp. p. 5346; Gaz. vol. 163; p. 936.
Car door, Grain-. J. M. Rush. No. 986,646; Mar. 14; Sp. p. 1893; Gaz. vol. 164; p. 334.
Car door, Grain-. C. E. Sievert. No. 991,248; May 2; Sp. p. 898; Gaz. vol. 166; p. 152.
Car door, Grain-. A. Devan. No. 992,710; May 16; Sp. p. 4015; Gaz. vol. 166; p. 716.
Car door, Grain-. J. A. Richley. No. 993,876; May 30; Sp. p. 6537; Gaz. vol. 166; p. 1178.
Car door, Grain-. C. S. D. Perry. No. 996,672; July 4; Sp. p. 154; Gaz. vol. 168; p. 27.
Car door, Grain-. E. J. Russell and J. W. Dye. No. 998,041; July 18; Sp. p. 3122; Gaz. vol. 168; p. 568.
Car door, Grain-. A. L. Alvey. No. 998,941; July 25; Sp. p. 5150; Gaz. vol. 168; p. 919.
Car door, Grain-. S. T. Wilson. No. 999,354; Aug. 1; Sp. p. 322; Gaz. vol. 169; p. 57.
Car door, Grain-. R. E. Null. No. 999,583; Aug. 1; Sp. p. 770; Gaz. vol. 169; p. 133.
Car door, Grain-. W. H. Sleep. No. 1,001,468; Aug. 22; Sp. p. 4854; Gaz. vol. 169; p. 875.
Car door, Grain-. G., C. E., and A. E. Paget. No. 1,002,436; Sept. 5; Sp. p. 581; Gaz. vol. 170; p. 83.
Car door, Grain-. J. W. Wheeler. No. 1,003,308; Sept. 12; Sp. p. 2465; Gaz. vol. 170; p. 424.
Car door, Grain-. J. C. Dobie and J. L. Robb. No. 1,008,796; Nov. 14; Sp. p. 2640; Gaz. vol. 172; p. 442.
Car-door hanger. W. T. Thornley. No. 984,170; Feb. 14; Sp. p. 1981; Gaz. vol. 163; p. 340.
Car-door hanger. C. F. Reigh. No. 990,776; Apr. 25; Sp. p. 5412; Gaz. vol. 165; p. 933.
Car-door hanger. T. Mull. No. 998,198; July 18; Sp. p. 3456; Gaz. vol. 168; p. 623.
Car-door hanger. J. T. Grimshaw and L. R. Wellington. No. 1,003,252; Sept. 12; Sp. p. 2354; Gaz. vol. 170; p. 404.
Car-door hanger. O. Butler. No. 1,009,221; Nov. 21; Sp. p. 3571; Gaz. vol. 172; p. 623.
Car-door hanger and track. C. W. Tefft. No. 1,010,818; Dec. 5; Sp. p. 922; Gaz. vol. 173; p. 145.
Car-door hanger and trolley-wheel, Freight-. E. A. Hill. No. 1,008,910; Nov. 14; Sp. p. 2849; Gaz. vol. 172; p. 480.
Car door, Hopper-bottom-. G. E. Babbitt. No. 1,011,008; Dec. 5; Sp. p. 1330; Gaz. vol. 173; p. 212.
Car-door lock. T. H. Watts. No. 986,786; Mar. 14; Sp. p. 2175; Gaz. vol. 164; p. 380.
Car-door lock. W. A. Byrne and J. Wise. No. 986,799; Mar. 14; Sp. p. 2214; Gaz. vol. 164; p. 384.
Car-door lock. W. J. Martin. No. 990,446; Apr. 25; Sp. p. 4673; Gaz. vol. 165; p. 821.
Car-door lock. W. F. Uphoff. No. 991,116; May 2; Sp. p. 614; Gaz. vol. 166; p. 105.
Car-door lock. S. T. Billingsley. No. 1,010,344; Nov. 28; Sp. p. 5905; Gaz. vol. 172; p. 1051.
Car-door lock. J. H. Green. No. 1,011,945; Dec. 19; Sp. p. 3482; Gaz. vol. 173; p. 610.
Car-door-locking device. J. Eagan. No. 987,221; Mar. 21; Sp. p. 3088; Gaz. vol. 164; p. 560.
Car-door-locking device. F. J. Gilroy. No. 991,610; May 9; Sp. p. 1689; Gaz. vol. 166; p. 310.
Car-door-motor controller. J. F. McElroy. No. 987,006; Mar. 14; Sp. p. 2622; Gaz. vol. 164; p. 453.
Car-door-operating gear. C. A. Lindström. No. 1,012,260; Dec. 19; Sp. p. 4190; Gaz. vol. 173; p. 719.
Car-door-operating means. F. G. Borg. No. 1,000,708; Aug. 15; Sp. p. 3226; Gaz. vol. 169; p. 583.
Car-door-operating mechanism. F. Ditchfield. No. 988,983; Apr. 11; Sp. p. 1443; Gaz. vol. 165; p. 255.
Car-door-operating mechanism. W. Banning. No. 989,477; Apr. 11; Sp. p. 2501; Gaz. vol. 165; p. 423.
Car-door-operating mechanism. J. M. Hansen. No. 1,008,460; Nov. 14; Sp. p. 1900; Gaz. vol. 172; p. 325.
Car-door-operating mechanism. J. M. Hansen. No. 1,008,461; Nov. 14; Sp. p. 1902; Gaz. vol. 172; p. 325.
Car-door-operating mechanism, Dump-. C. A. Lindström. No. 1,002,856; Sept. 12; Sp. p. 1495; Gaz. vol. 170; p. 265.
Car-door-operating mechanism, Dumping-. A. G. Elvin. No. 987,222; Mar. 21; Sp. p. 3090; Gaz. vol. 164; p. 560.
Car-door-operating mechanism, Dumping-. A. G. Elvin. No. 987,223; Mar. 21; Sp. p. 3094; Gaz. vol. 164; p. 561.
Car-door-operating mechanism, Gondola-. T. W. Martin. No. 993,389; May 30; Sp. p. 5486; Gaz. vol. 166; p. 1010.
Car-door-operating mechanism, Hopper-. F. W. Martin. No. 1,012,092; Dec. 19; Sp. p. 3825; Gaz. vol. 173; p. 662.
Car-door safety-bracket. E. A. Hill. No. 1,000,408; Aug. 15; Sp. p. 2552; Gaz. vol. 169; p. 476.
Car-door-securing device. F. J. Gilroy. No. 991,611; May 9; Sp. p. 1691; Gaz. vol. 166; p. 310.
Car-door track and hanger, Combined. E. A. Hill. No. 1,001,030; Aug. 22; Sp. p. 3968; Gaz. vol. 169; p. 729.
Car-door track and hanger, Freight-. E. A. Hill. No. 995,787; June 20; Sp. p. 3710; Gaz. vol. 167; p. 647.
Car doors and steps, Means for operating passenger-. W. H. Grove. No. 993,361; May 30; Sp. p. 5429; Gaz. vol. 166; p. 1001.
Car-doors, Combined roller-support and track for. J. A. Pickett. No. 1,000,551; Aug. 15; Sp. p. 2872; Gaz. vol. 169; p. 526.
Car doors, Means for guiding and retaining the lower edges of freight-. E. A. Hill. No. 1,007,695; Nov. 7; Sp. p. 92; Gaz. vol. 172; p. 15.
Car draft and buffing gear. I. O. Wright. No. 1,004,517; Sept. 26; Sp. p. 5104; Gaz. vol. 170; p. 899.
Car draft appliance, Railway-. W. J. Mack. No. 995,474; June 20; Sp. p. 3005; Gaz. vol. 167; p. 536.
Car draft-gear, Railway-. A. F. Peterson. No. 987,166; Mar. 21; Sp. p. 2971; Gaz. vol. 164; p. 540.
Car draft-rigging. A. P. Prendergast and J. J. Tatum. No. 1,002,930; Sept. 12; Sp. p. 1689; Gaz. vol. 170; p. 292.
Car draft-rigging, Railway-. J. F. O'Connor. No. 1,008,670; Nov. 14; Sp. p. 2363; Gaz. vol. 172; p. 399.
Car, Drop-bottom dump-. S. Otis. (Reissue.) No. 13,320; Nov. 21; Sp. p. 4611; Gaz. vol. 172; p. 798.
Car, Drying-. J. W. Bailey. No. 986,345; Mar. 7; Sp. p. 1227; Gaz. vol. 164; p. 198.
Car, Dump-. P. Bateman. No. 981,157; Jan. 10; Sp. p. 2237; Gaz. vol. 162; p. 369.

Alphabetical list of inventions—Continued.

Car, Dump-. P. J. Harrigan. No. 983,277; Feb. 7; Sp. p. 37; Gaz. vol. 163; p. 8.
Car, Dump-. S. Otis. No. 986,207; Mar. 7; Sp. p. 937; Gaz. vol. 164; p. 152.
Car, Dump-. P. J. Harrigan. No. 987,877; Mar. 28; Sp. p. 4496; Gaz. vol. 164; p. 812.
Car, Dump-. W. A. Caswell. No. 988,310; Apr. 4; Sp. p. 25; Gaz. vol. 165; p. 7.
Car, Dump-. W. A. Caswell. No. 990,030; Apr. 18; Sp. p. 3728; Gaz. vol. 165; p. 645.
Car, Dump-. H. S. Hart and J. O. Neikirk. No. 992,192; May 16; Sp. p. 2881; Gaz. vol. 166; p. 537.
Car, Dump-. W. Yost. No. 992,625; May 16; Sp. p. 3859; Gaz. vol. 166; p. 688.
Car, Dump-. A. Campbell. No. 992,753; May 23; Sp. p. 4116; Gaz. vol. 166; p. 761.
Car, Dump-. F. S. Ingoldsby. No. 993,449; May 30; Sp. p. 5614; Gaz. vol. 166; p. 1030.
Car, Dump-. F. S. Ingoldsby. No. 993,450; May 30; Sp. p. 5620; Gaz. vol. 166; p. 1030.
Car, Dump-. J. B. Shelton. No. 994,341; June 6; Sp. p. 491; Gaz. vol. 167; p. 84.
Car, Dump-. B. C. McComas. No. 996,422; June 27; Sp. p. 5139; Gaz. vol. 167; p. 900.
Car, Dump-. F. S. Ingoldsby. No. 998,180; July 18; Sp. p. 3422; Gaz. vol. 168; p. 617.
Car, Dump-. T. Walker. No. 998,432; July 18; Sp. p. 3992; Gaz. vol. 168; p. 708.
Car, Dump-. F. S. Ingoldsby. No. 998,967; July 25; Sp. p. 5201; Gaz. vol. 168; p. 928.
Car, Dump-. F. S. Ingoldsby. No. 1,000,175; Aug. 8; Sp. p. 2034; Gaz. vol. 169; p. 364.
Car, Dump-. V. E. Sisson. No. 1,000,446; Aug. 15; Sp. p. 2635; Gaz. vol. 169; p. 489.
Car, Dump-. W. Q. Olden. No. 1,000,753; Aug. 15; Sp. p. 3315; Gaz. vol. 169; p. 599.
Car, Dump-. D. E. Blair. No. 1,007,324; Oct. 31; Sp. p. 6104; Gaz. vol. 171; p. 1112.
Car, Dump-. R. M. Zimmerman. No. 1,008,443; Nov. 14; Sp. p. 1845; Gaz. vol. 172; p. 318.
Car, Dump-. R. M. Zimmerman. No. 1,008,444; Nov. 14; Sp. p. 1848; Gaz. vol. 172; p. 318.
Car, Dump-. R. M. Zimmerman. No. 1,009,617; Nov. 21; Sp. p. 4414; Gaz. vol. 172; p. 761.
Car, Dump-. R. M. Zimmerman. No. 1,009,618; Nov. 21; Sp. p. 4416; Gaz. vol. 172; p. 761.
Car, Dump-. F. Ditchfield. No. 1,009,957; Nov. 28; Sp. p. 5110; Gaz. vol. 172; p. 922.
Car, Dump-. F. Seaberg. No. 1,011,254; Dec. 12; Sp p. 1929; Gaz. vol. 173; p. 332.
Car, Dump-. W. H. Yost. No. 1,012,044; Dec. 19; Sp. p. 3711; Gaz. vol. 173; p. 646.
Car-dumper. J. McMyler. No. 1,009,331; Nov. 21; Sp. p. 3810; Gaz. vol. 172; p. 664.
Car, Dumping-. C. Gabriel. No. 992,555; May 16; Sp. p. 3719; Gaz. vol. 166; p. 665.
Car, Dumping-. A. Becker. No. 995,214; June 13; Sp. p. 2412; Gaz. vol. 167; p. 418.
Car, Dumping-. A. Becker. No. 995,215; June 13; Sp. p. 2415; Gaz. vol. 167; p. 419.
Car, Dumping-. A. Becker. No. 995,216; June 13; Sp. p. 2417; Gaz. vol. 167; p. 419.
Car, Dumping-. J. H. Baisden, Jr. No. 1,001,334; Aug. 22; Sp. p. 4597; Gaz. vol. 169; p. 832.
Car, Dumping-. J. E. Tesseyman. No. 1,007,820; Nov. 7; Sp. p. 387; Gaz. vol. 172; p. 60.
Car-dumping apparatus, Coal-. H. H. Bennett. No. 1,002,628; Sept. 5; Sp. p. 1006; Gaz. vol. 170; p. 149.
Car-dumping apparatus, Mine-. C. A. Griffith. No. 982,426; Jan. 24; Sp. p. 4966; Gaz. vol. 162; p. 859.
Car-dumping mechanism. J. H. Baisden, Jr. No. 983,110; Jan. 31; Sp. p. 6438; Gaz. vol. 162; p. 1119.
Car-dumping mechanism. F. C. and O. V. Greene. No. 988,462; Apr. 4; Sp. p. 363; Gaz. vol. 165; p. 59.
Car-dumping mechanism. J. M. Coleman. No. 998,326; July 18; Sp. p. 3780; Gaz. vol. 168; p. 672.
Car-dumping mechanism. N. S. Reeder. No. 998,393; July 18; Sp. p. 3923; Gaz. vol. 168; p. 695.
Car-dumping mechanism, Automatic. F. C. Greene and C. G. Palmer. No. 1,005,961; Oct. 17; Sp. p. 3063; Gaz. vol. 171; p. 551.
Car dumping, righting, and braking device. E. O. Keator, No. 982,071; Jan. 17; Sp. p. 4243; Gaz. vol. 162; p. 707.
Car emergency-brake, Street-. F. Wirsing. No. 995,311; June 13; Sp. p. 2603; Gaz. vol. 167; p. 451.
Car emergency stopping device. W. H. Allen. No. 984,341; Feb. 14; Sp. p. 2362; Gaz. vol. 163; p. 399.
Car-end construction. F. F. Gaines. No. 996,074; June 27; Sp. p. 4306; Gaz. vol. 167; p. 781.
Car equalizing brake-gear, Railway-. W. G. Ransom. No. 1,002,312; Sept. 5; Sp. p. 287; Gaz. vol. 170; p. 40.
Car extension-step. M. A. O. Jones. No. 999,653; Aug. 1; Sp. p. 899; Gaz. vol. 169; p. 157.
Car-fender. J. P. Geraghty. No. 983,889; Feb. 14; Sp. p. 1381; Gaz. vol. 163; p. 247.
Car-fender. L. E. Sulzer. No. 984,616; Feb. 21; Sp. p. 2972; Gaz. vol. 163; p. 528.
Car-fender. L. E. Sulzer. No. 984,865; Feb. 21; Sp. p. 3482; Gaz. vol. 163; p. 615.
Car-fender. J. B. Rowe. No. 985,374; Feb. 28; Sp. p. 4578; Gaz. vol. 163; p. 821.
Car-fender. J. P. Geraghty and G. W. Naylor. No. 988,999; Apr. 11; Sp. p. 1493; Gaz. vol. 165; p. 262.
Car-fender. J. H. E. Branson, W. H. Quick, and T. F. Mackell. No. 990,221; Apr. 25; Sp. p. 4133; Gaz. vol. 165; p. 740.
Car-fender. R. S. Cormier. No. 990,805; Apr. 25; Sp. p. 5476; Gaz. vol. 165; p. 943.
Car-fender. T. J. Marion. No. 991,732; May 9; Sp. p. 1955; Gaz. vol. 166; p. 351.
Car-fender. H. S. Beattie. No. 993,219; May 23; Sp. p. 5115; Gaz. vol. 166; p. 921.
Car-fender. W. H. Martin. No. 993,609; May 30; Sp. p. 5963; Gaz. vol. 166; p. 1086.
Car-fender. J. B. Bailey. No. 993,639; May 30; Sp. p. 6033; Gaz. vol. 166; p. 1096.
Car-fender. I. Pascal. No. 994,423; June 6; Sp. p. 672; Gaz. vol. 167; p. 114.
Car-fender. J. A. Anderson and C. E. McElwee. No. 998,224; July 18; Sp. p. 3518; Gaz. vol. 168; p. 633.
Car-fender. P. F. Matthews. No. 998,788; July 25; Sp. p. 4782; Gaz. vol. 168; p. 864.
Car-fender. N. J. Spencer. No. 1,001,472; Aug. 22; Sp. p. 4861; Gaz. vol. 169; p. 877.
Car-fender. N. Williard. No. 1,001,792; Aug. 29; Sp. p. 5537; Gaz. vol. 169; p. 1016.
Car-fender. G. H. Miller. No. 1,001,877; Aug. 29; Sp. p. 5735; Gaz. vol. 169; p. 1047.
Car-fender. R. B. Bett. No. 1,006,349; Oct. 17; Sp. p. 3927; Gaz. vol. 171; p. 686.
Car-fender. J. Silver and J. Walter. No. 1,007,395; Oct. 31; Sp. p. 6252; Gaz. vol. 171; p. 1138.
Car-fender. N. J. Holden. No. 1,010,428; Dec. 5; Sp. p. 53; Gaz. vol. 173; p. 11.
Car-fender. C. H. Merritt. No. 1,011,222; Dec. 12; Sp. p. 1855; Gaz. vol. 173; p. 321.
Car-fender. N. E. Burwell. No. 1,011,406; Dec. 12; Sp. p. 2258; Gaz. vol. 173; p. 385.
Car-fender. N. H. Turner. No. 1,011,677; Dec. 12; Sp. p. 2896; Gaz. vol. 173; p. 484.
Car-fender. J. A. Devitt. No. 1,012,336; Dec. 19; Sp. p. 4356; Gaz. vol. 173; p. 746.
Car-fender. W. H. Martin. No. 1,012,392; Dec. 19; Sp. p. 4456; Gaz. vol. 173; p. 763.
Car-fender, Safety. C. B. Fithian. No. 990,720; Apr. 25; Sp. p. 5298; Gaz. vol. 165; p. 913.
Car fender, Street-. J. J. Kelly. No. 986,990; Mar. 14; Sp. p. 2592; Gaz. vol. 164; p. 448.
Car fender, Street-. E. S. Miller. No. 997,077; July 4; Sp. p. 1025; Gaz. vol. 168; p. 164.
Car fender, Street-. H. M. Godfrey. No. 1,004,774; Oct. 3; Sp. p. 490; Gaz. vol. 171; p. 81.
Car fender, Street-. B. Weinberger. No. 1,009,607; Nov. 21; Sp. p. 4397; Gaz. vol. 172; p. 758.
Car fender, Street-. E. C. Hill and M. J. Ziegelmeyer. No. 1,010,367; Nov. 28; Sp. p. 5949; Gaz. vol. 172; p. 1058.
Car fender, Street-railway-. P. N. Landine. No. 984,277; Feb. 14; Sp. p. 2238; Gaz. vol. 163; p. 378.
Car fender, Tram-. E. L. Harriman. No. 992,657; May 16; Sp. p. 3916; Gaz. vol. 166; p. 698.
Car floor construction, Freight-. W. P. Bettendorf. No. 986,422; Mar. 7; Sp. p. 1399; Gaz. vol. 164; p. 226.
Car frame, Passenger-. A. Christianson. No. 992,164; May 16; Sp. p. 2833; Gaz. vol. 166; p. 527.
Car-framing. J. Pearson. No. 1,010,684; Dec. 5; Sp. p. 622; Gaz. vol. 173; p. 99.
Car, Freight-. J. W. Swartz. No. 982,024; Jan. 17; Sp. p. 4142; Gaz. vol. 162; p. 691.
Car, Freight-. H. W. Kirchner. No. 997,300; July 11; Sp. p. 1486; Gaz. vol. 168; p. 271.
Car friction-buffer, Railway-. G. A. Johnson. No. 992,428; May 16; Sp. p. 3447; Gaz. vol. 166; p. 620.
Car friction-buffer, Railway-passenger-. J. F. O'Connor. No. 992,440; May 16; Sp. p. 3464; Gaz. vol. 166; p. 623.
Car friction-gear. T. H. Symington. No. 1,004,498; Sept. 26; Sp. p. 5069; Gaz. vol. 170; p. 892.
Car-gate lock. M. J. Loftus. No. 1,012,378; Dec. 19; Sp. p. 4431; Gaz. vol. 173; p. 759.
Car, Gondola. J. M. Hansen. No. 1,008,462; Nov. 14; Sp. p. 1905; Gaz. vol. 172; p. 326.
Car, Gondola. H. S. Hart, J. O. Neikirk, and F. W. Hahn. No. 1,010,625; Dec. 5; Sp. p. 507; Gaz. vol. 173; p. 79.
Car, Grain-. J. M. Coleman. No. 998,325; July 18; Sp. p. 3779; Gaz. vol. 168; p. 672.
Car grain-door. J. Henry. No. 981,084; Jan. 10; Sp. p. 2079; Gaz. vol. 162; p. 343.
Car grain-door. J. Archer. No. 981,150; Jan. 10; Sp. p. 2223; Gaz. vol. 162; p. 366.
Car grain-door. J. Henry. No. 993,250; May 23; Sp. p. 5178; Gaz. vol. 166; p. 930.
Car grain-door. J. Henry. No. 1,000,807; Aug. 15; Sp. p. 3434; Gaz. vol. 169; p. 618.
Car grain-door. F. W. Hugunin. No. 1,001,036; Aug. 22; Sp. p. 3981; Gaz. vol. 169; p. 732.
Car grain-door. H. H. Frey. No. 1,005,636; Oct. 10; Sp p. 2352; Gaz. vol. 171; p. 404.
Car grain-door. S. P. Olson. No. 1,007,726; Nov. 7; Sp. p. 160; Gaz. vol. 172; p. 26.
Car grain-door. P. F. Busch. No. 1,009,046; Nov. 21; Sp. p. 3167; Gaz. vol. 172; p. 562.

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Car guard-rail, Street-. A. Loeb. No. 985,356; Feb. 28; Sp. p. 4544; Gaz. vol. 163; p. 815.
Car, Hand-. A. M. Paulero. No. 995,284; June 13; Sp. p. 2554; Gaz. vol. 167; p. 442.
Car-haul. C. A. Morris. No. 1,000,106; Aug. 8; Sp. p. 1886; Gaz. vol. 169; p. 341.
Car-heater. J. P. Elmer. No. 997,978; July 18; Sp. p. 2971; Gaz. vol. 168; p. 545.
Car heater, Sleeping-. E. H. Gold. No. 987,570; Mar. 21; Sp. p. 3804; Gaz. vol. 164; p. 678.
Car heating and ventilating system. M. McGerry. No. 986,732; Mar. 14; Sp. p. 2065; Gaz. vol. 164; p. 362.
Car-heating system, Compartment-. E. H. Gold. No. 987,567; Mar. 21; Sp. p. 3791; Gaz. vol. 164; p. 676.
Car-heating system, Sleeping-. E. H. Gold. No. 987,565; Mar. 21; Sp. p. 3777; Gaz. vol. 164; p. 675.
Car, High-side gondola. S. Otis. No. 985,926; Mar. 7; Sp. p. 359; Gaz. vol. 164; p. 58.
Car, Hot-metal. W. W. McKelvey. No. 1,004,548; Sept. 26; Sp. p. 5167; Gaz. vol. 170; p. 908.
Car indicator, Street-. S. W. Chick. No. 981,167; Jan. 10; Sp. p. 2262; Gaz. vol. 162; p. 374.
Car, Insulated. J. P. Elmer. No. 1,002,572; Sept. 5; Sp. p. 877; Gaz. vol. 170; p. 129.
Car journal-box. J. A. Perkins. No. 1,002,442; Sept. 5; Sp. p. 596; Gaz. vol. 170; p. 85.
Car journal-box and dust-guard therefor. A. Berry. No. 999,721; Aug. 1; Sp. p. 1043; Gaz. vol. 169; p. 179.
Car journal-box and lid, Railway-. J. F. O'Connor. No. 1,003,405; Sept. 12; Sp. p. 2645; Gaz. vol. 170; p. 455.
Car journal-boxes, Core for molding. J. W. Gibney. No. 982,588; Jan. 24; Sp. p. 5310; Gaz. vol. 162; p. 915.
Car life-guard, Railway-. G. A. Parmenter. No. 985,541; Feb. 28; Sp. p. 4975; Gaz. vol. 163; p. 880.
Car life-guard, Railway-. G. A. Parmenter. No. 985,542; Feb. 28; Sp. p. 4977; Gaz. vol. 163; p. 881.
Car-lighting system, Electric. H. Grob. No. 994,510; June 6; Sp. p. 838; Gaz. vol. 167; p. 141.
Car-loading device. T. Spore. No. 980,692; Jan. 3; Sp. p. 1118; Gaz. vol. 162; p. 179.
Car-locking mechanism. H. Rowntree. No. 1,001,987; Aug. 29; Sp. p. 5980; Gaz. vol. 169; p. 1083.
Car, Log and lumber. C. H. Ruggles. No. 986,315; Mar. 7; Sp. p. 1165; Gaz. vol. 164; p. 188.
Car, Logging-. F. W. Chriswell. No. 995,056; June 13; Sp. p. 2119; Gaz. vol. 167; p. 368.
Car, Mine-. T. Donohoe. No. 1,010,738; Dec. 5; Sp. p. 757; Gaz. vol. 173; p. 119.
Car, Mine-. J. M. Cook. No. 1,012,817; Dec. 26; Sp. p. 5386; Gaz. vol. 173; p. 956.
Car, Monorail-. P. Barnes. No. 1,004,135; Sept. 26; Sp. p. 4330; Gaz. vol. 170; p. 769.
Car, Motor-. C. G. Mahana, W. S. Hovey, and C. B. Stebbins. No. 992,788; May 23; Sp. p. 4186; Gaz. vol. 166; p. 773.
Car, Motor-. W. E. Adams. No. 993,939; May 30; Sp. p. 6653; Gaz. vol. 166; p. 1198.
Car, Motor-. W. S. Hovey and C. B. Stebbins. No. 998,179; July 18; Sp. p. 3420; Gaz. vol. 168; p. 617.
Car, Motor-. W. S. Hovey and C. B. Stebbins. No. 1,009,519; Nov. 21; Sp. p. 4235; Gaz. vol. 172; p. 729.
Car-mover. E. T. McBride. No. 983,154; Jan. 31; Sp. p. 6512; Gaz. vol. 162; p. 1132.
Car-mover. O. E. Hunt. No. 991,997; May 9; Sp. p. 2476; Gaz. vol. 166; p. 440.
Car-mover. J. F. Pride. No. 1,007,044; Oct. 24; Sp. p. 5463; Gaz. vol. 171; p. 957.
Car-moving device. R. Miller. No. 1,006,255; Oct. 17; Sp. p. 3726; Gaz. vol. 171; p. 654.
Car-moving device, Railway-. C. L. Hofmann. No. 1,001,033; Aug. 22; Sp. p. 3973; Gaz. vol. 169; p. 730.
Car, Muriatic-acid tank-. O. Proelss and W. S. Hall. No. 998,120; July 18; Sp. p. 3310; Gaz. vol. 168; p. 596.
Car, Observation-. R. M. Rodden. No. 997,704; July 11; Sp. p. 2306; Gaz. vol. 168; p. 408.
Car-operating mechanism, Dump-. F. S. Ingoldsby. No. 1,002,994; Sept. 12; Sp. p. 1807; Gaz. vol. 170; p. 313.
Car or truck. W. M. Duncan. No. 1,006,369; Oct. 17; Sp. p. 3981; Gaz. vol. 171; p. 693.
Car-partition, Adjustable. J. Dixey. No. 986,810; Mar. 14; Sp. p. 2238; Gaz. vol. 164; p. 388.
Car partition-gate, Stock-. D. B. Crews. No. 1,012,126; Dec. 19; Sp. p. 3903; Gaz. vol. 173; p. 675.
Car, Passenger-. S. R. Skov and T. Scullin. No. 987,329; Mar. 21; Sp. p. 3322; Gaz. vol. 164; p. 596.
Car, Passenger-. D. McDonald. No. 992,571; May 16; Sp. p. 3746; Gaz. vol. 166; p. 670.
Car, Passenger-. E. M. Moller. No. 994,183; June 6; Sp. p. 166; Gaz. vol. 167; p. 29.
Car, Passenger-. W. S. Adams. No. 1,011,704; Dec. 12; Sp. p. 2944; Gaz. vol. 173; p. 492.
Car, Passenger-. S. M. Curwen. No. 1,011,755; Dec. 12; Sp. p. 3046; Gaz. vol. 173; p. 509.
Car, Pay-as-you-enter. M. L. Banta. No. 1,012,588; Dec. 26; Sp. p. 4858; Gaz. vol. 173; p. 875.
Car, Pay-on-the-platform. N. Benincasa. No. 998,069; July 18; Sp. p. 3181; Gaz. vol. 168; p. 578.
Car platform or gangway, Freight-. H. M. Taylor. No. 1,006,025; Oct. 17; Sp. p. 3188; Gaz. vol. 171; p. 572.
Car-platform rail. W. S. Adams. No. 1,011,705; Dec. 12; Sp. p. 2946; Gaz. vol. 173; p. 492.
Car-platforms, Means for operating. K. E. O. Hockinson. No. 999,450; Aug. 1; Sp. p. 509; Gaz. vol. 169; p. 89.
Car, Poultry-. W. M. Ryan. No. 998,401; July 18; Sp. p. 3936; Gaz. vol. 168; p. 697.
Car-precooling door-opening closure. A. Faget. No. 998,082; July 18; Sp. p. 3220; Gaz. vol. 168; p. 582.
Car, Rail motor-. L. F. Goodspeed. No. 1,002,834; Sept. 12; Sp. p. 1442; Gaz. vol. 170; p. 257.
Car, Railway-. W. J. Spangler. No. 981,131; Jan. 10; Sp. p. 2183; Gaz. vol. 162; p. 360.
Car, Railway-. W. S. Hovey and C. B. Stebbins. No. 987,881; Mar. 28; Sp. p. 4505; Gaz. vol. 164; p. 814.
Car, Railway-. C. L. Schwartz. No. 988,512; Apr. 4; Sp. p. 471; Gaz. vol. 165; p. 76.
Car, Railway-. E. Mittag. No. 992,025; May 9; Sp. p. 2523; Gaz. vol. 166; p. 449.
Car, Railway-. G. B. Hippee. No. 997,389; July 11; Sp. p. 1659; Gaz. vol. 168; p. 300.
Car, Railway-. E. H. Gold. No. 1,008,324; Nov. 14; Sp. p. 1513; Gaz. vol. 172; p. 277.
Car, Railway-. A. J. Earling. No. 1,013,001; Dec. 26; Sp. p. 5815; Gaz. vol. 173; p. 1017.
Car, Railway dining-. J. Cohran. No. 1,007,184; Oct. 31; Sp. p. 5821; Gaz. vol. 171; p. 1062.
Car, Railway freight-. J. D. Hern and H. F. Veil. No. 986,981; Mar. 14; Sp. p. 2570; Gaz. vol. 164; p. 445.
Car, Railway motor-. W. S. Hovey and C. B. Stebbins. No. 992,356; May 16; Sp. p. 3302; Gaz. vol. 166; p. 594.
Car raiser and safety-brake. C. K. Young. No. 999,424; Aug. 1; Sp. p. 455; Gaz. vol. 169; p. 80.
Car register, Street-. C. H. Hudson and J. F. Smith. No. 981,565; Jan. 10; Sp. p. 3134; Gaz. vol. 162; p. 510.
Car registering device, Passenger-. J. H. Hood. No. 983,552; Feb. 7; Sp. p. 656; Gaz. vol. 163; p. 101.
Car-release rigging. W. P. Murphy. No. 1,002,430; Sept. 5; Sp. p. 573; Gaz. vol. 170; p. 82.
Car-replacer. F. B. Plasko. No. 983,166; Jan. 31; Sp. p. 6534; Gaz. vol. 162; p. 1136.
Car-replacer. E. Derosa. No. 983,983; Feb. 14; Sp. p. 1594; Gaz. vol. 163; p. 277.
Car-replacer. J. A. Moynihan. No. 987,641; Mar. 21; Sp. p. 3945; Gaz. vol. 164; p. 703.
Car-replacer. J. T. Cremans. No. 991,958; May 9; Sp. p. 2402; Gaz. vol. 166; p. 427.
Car-replacer. A. Z. Freed. No. 993,358; May 30; Sp. p. 5415; Gaz. vol. 166; p. 1000.
Car-replacer. J. A. Moynihan. No. 1,001,213; Aug. 22; Sp. p. 4339; Gaz. vol. 169; p. 790.
Car-replacer. F. S. Leonard and J. G. Du Mond. No. 1,007,580; Oct. 31; Sp. p. 6666; Gaz. vol. 171; p. 1201.
Car-replacer. E. S. Stotts. No. 1,010,973; Dec. 5; Sp. p. 1265; Gaz. vol. 173; p. 200.
Car-replacer. T. C. Roark. No. 1,011,374; Dec. 12; Sp. p. 2199; Gaz. vol. 173; p. 375.
Car-roof. F. Horn. No. 982,063; Jan. 17; Sp. p. 4224; Gaz. vol. 162; p. 704.
Car-roof. G. E. Knepper. No. 984,092; Feb. 14; Sp. p. 1833; Gaz. vol. 163; p. 315.
Car-roof. H. J. Small and O. B. Schoenky. No. 986,093; Mar. 7; Sp. p. 720; Gaz. vol. 164; p. 115.
Car-roof. J. Pearson. No. 988,380; Apr. 4; Sp. p. 199; Gaz. vol. 165; p. 32.
Car-roof. W. J. Owen, W. T. Westall, and W. Wallace. No. 989,034; Apr. 11; Sp. p. 1561; Gaz. vol. 165; p. 273.
Car-roof. R. C. Dudley. No. 992,409; May 16; Sp. p. 3409; Gaz. vol. 166; p. 614.
Car-roof. W. P. Murphy. No. 992,578; May 16; Sp. p. 3756; Gaz. vol. 166; p. 672.
Car-roof. J. J. Hoffman. No. 999,166; July 25; Sp. p. 5589; Gaz. vol. 168; p. 994.
Car-roof. J. Pearson. (Reissue.) No. 13,285; Aug. 22; Sp. p. 5118; Gaz. vol. 169; p. 920.
Car-roof. J. J. McCarthy. No. 1,005,262; Oct. 10; Sp. p. 1497; Gaz. vol. 171; p. 272.
Car-roof. H. A. Christy. No. 1,005,938; Oct. 17; Sp. p. 3015; Gaz. vol. 171; p. 543.
Car-roof clip. W. P. Murphy. No. 1,006,496; Oct. 24; Sp. p. 4274; Gaz. vol. 171; p. 768.
Car-roof construction. J. A. Costello. No. 983,689; Feb. 7; Sp. p. 938; Gaz. vol. 163; p. 149.
Car-roof construction. J. J. Hoffman. No. 993,600; May 30; Sp. p. 5944; Gaz. vol. 166; p. 1083.
Car-roof construction. R. Tinsley. No. 1,007,754; Nov. 7; Sp. p. 231; Gaz. vol. 172; p. 37.
Car-roof construction, Metallic. J. J. Hoffman. No. 993,601; May 30; Sp. p. 5945; Gaz. vol. 166; p. 1083.
Car-roof construction, Metallic. E. C. Covert. No. 996,564; June 27; Sp. p. 5404; Gaz. vol. 167; p. 946.
Car roof-frame, Freight-. W. K. Lavis. No. 1,004,044; Sept. 26; Sp. p. 4099; Gaz. vol. 170; p. 737.
Car-roof framework. E. Posson. (Reissue.) No. 13,297; Oct. 3; Sp. p. 1172; Gaz. vol. 171; p. 198.
Car-roof, Metal. W. P. Murphy. No. 1,004,063; Sept. 26; Sp. p. 4139; Gaz. vol. 170; p. 743.
Car-roofs, End carline for. J. A. Costello. No. 983,688; Feb. 7; Sp. p. 935; Gaz. vol. 163; p. 148.
Car-roofing, Metal. J. M. Hansen. No. 985,340; Feb. 28; Sp. p. 4503; Gaz. vol. 163; p. 811.
Car-roofing, Metal. J. M. Hansen. No. 985,341; Feb. 28; Sp. p. 4504; Gaz. vol. 163; p. 811.

Alphabetical list of inventions—Continued.

Car running-board. J. F. O'Connor. No. 1,000,112; Aug. 8; Sp. p. 1903; Gaz. vol. 169; p. 343.
Car-running-board saddle. J. H. Downer. No. 1,012,827; Dec. 26; Sp. p. 5404; Gaz. vol. 173; p. 959.
Car safety appliance. W. G. Moofley. No. 997,148; July 4; Sp. p. 1168; Gaz. vol. 168; p. 188.
Car safety appliance, Street-. W. R. Betham. No. 988,070; Mar. 28; Sp. p. 4952; Gaz. vol. 164; p. 878.
Car safety attachment. W. C. D. Body. No. 983,022; Jan. 31; Sp. p. 6261; Gaz. vol. 162; p. 1089.
Car safety attachment. R. S. Mills. No. 998,372; July 18; Sp. p. 3877; Gaz. vol. 168; p. 688.
Car safety attachment, Railway-. C. E. Sullivan. No. 988,404; Apr. 4; Sp. p. 249; Gaz. vol. 165; p. 40.
Car safety-brake, Street-. C. E. Gierding. No. 983,041; Jan. 31; Sp. p. 6305; Gaz. vol. 162; p. 1096.
Car safety-coupling, Freight-. O. Davis. No. 987,118; Mar. 21; Sp. p. 2831; Gaz. vol. 164; p. 521.
Car safety-step, Freight-. A. C. Neale. No. 981,465; Jan. 10; Sp. p. 2942; Gaz. vol. 162; p. 477.
Car-seat. J. Stverak. No. 984,783; Feb. 21; Sp. p. 3335; Gaz. vol. 163; p. 588.
Car-seat. F. H. Henry. No. 997,814; July 11; Sp. p. 2606; Gaz. vol. 168; p. 447.
Car-seat-back attachment. M. W. Munford. No. 1,013,044; Dec. 26; Sp. p. 5899; Gaz. vol. 173; p. 1032.
Car seat, Railway-. H. B. Morris and C. A. Van Derveer. No. 985,364; Feb. 28; Sp. p. 4559; Gaz. vol. 163; p. 818.
Car-seats, Reversible back-rest for. P. Schneider. No. 1,011,499; Dec. 12; Sp. p. 2470; Gaz. vol. 173; p. 421.
Car-sheathing. W. J. Boyer. No. 994,116; June 6; Sp. p. 27; Gaz. vol. 167; p. 7.
Car side. C. F. Murray. No. 989,182; Apr. 11; Sp. p. 1868; Gaz. vol. 165; p. 324.
Car side bearing, Railway-. E. A. Laughlin. No. 1,000,926; Aug. 15; Sp. p. 3674; Gaz. vol. 169; p. 659.
Car side bearing, Railway-. J. C. Barber. No. 1,007,768; Nov. 7; Sp. p. 257; Gaz. vol. 172; p. 42.
Car side, Railway-. C. F. Murray. No. 1,009,987; Nov. 28; Sp. p. 5168; Gaz. vol. 172; p. 930.
Car sign, Railway-. C. E. Bonine. No. 1,004,978; Oct. 3; Sp. p. 909; Gaz. vol. 171; p. 150.
Car signal, Railway-. R. C. Sweney. No. 988,746; Apr. 4; Sp. p. 981; Gaz. vol. 165; p. 156.
Car, Sleeping-. W. J. Anson. No. 983,528; Feb. 7; Sp. p. 576; Gaz. vol. 163; p. 92.
Car, Sleeping-. J. M. Hansen. No. 1,011,952; Dec. 19; Sp. p. 3490; Gaz. vol. 173; p. 612.
Car, Sleeping-. J. M. Hansen. No. 1,011,953; Dec. 19; Sp. p. 3494; Gaz. vol. 173; p. 612.
Car spring and friction buffer combined, Railway-. J. F. O'Connor. No. 992,441; May 16; Sp. p. 3466; Gaz. vol. 166; p. 624.
Car-stake. M. J. Skubé. No. 982,308; Jan. 24; Sp. p. 4731; Gaz. vol. 162; p. 818.
Car-stake. P. E. Shoemaker. No. 993,890; May 30; Sp. p. 6563; Gaz. vol. 166; p. 1182.
Car-stake. F. E. and A. L. Rollins. No. 1,001,690; Aug. 29; Sp. p. 5322; Gaz. vol. 169; p. 983.
Car-stake. J. A. Toomey. No. 1,004,311; Sept. 26; Sp. p. 4680; Gaz. vol. 170; p. 828.
Car-stake pocket. L. M. Otto, Jr. No. 989,033; Apr. 11; Sp. p. 1559; Gaz. vol. 165; p. 273.
Car-stake pocket. C. Flink. No. 999,638; Aug. 1; Sp. p. 867; Gaz. vol. 169; p. 151.
Car-stake, Releasable. J. G. Schroedel. No. 989,930; Apr. 18; Sp. p. 3517; Gaz. vol. 165; p. 611.
Car-standard. S. Mitchell and T. D. Love. No. 1,001,062; Aug. 22; Sp. p. 4034; Gaz. vol. 169; p. 742.
Car steam-heating system, Sleeping-. E. H. Gold. No. 987,566; Mar. 21; Sp. p. 3785; Gaz. vol. 164; p. 675.
Car steel platform, Railway-. G. A. Johnson. No. 1,011,965; Dec. 19; Sp. p. 3520; Gaz. vol. 173; p. 616.
Car-step. A. A. Taylor. No. 986,103; Mar. 7; Sp. p. 736; Gaz. vol. 164; p. 119.
Car-step. J. D. Collier. No. 986,142; Mar. 7; Sp. p. 801; Gaz. vol. 164; p. 130.
Car-step. A. A. Schrader. No. 1,004,475; Sept. 26; Sp. p. 5026; Gaz. vol. 170; p. 884.
Car-step. G. S. Watts. No. 1,009,812; Nov. 28; Sp. p. 4816; Gaz. vol. 172; p. 873.
Car-step, Extensible. E. M. Condos. No. 1,011,750; Dec. 12; Sp. p. 3039; Gaz. vol. 173; p. 508.
Car-step, Foldable. J. S. Blake. No. 996,201; June 27; Sp. p. 4626; Gaz. vol. 167; p. 825.
Car-step, Folding. C. A. Lathrop. No. 981,203; Jan. 10; Sp. p. 2337; Gaz. vol. 162; p. 385.
Car-step, Folding. J. Kinzman. No. 1,001,283; Aug. 22; Sp. p. 4474; Gaz. vol. 169; p. 813.
Car-step-operating mechanism. L. A. Kling. No. 1,011,812; Dec. 12; Sp. p. 3170; Gaz. vol. 173; p. 530.
Car-step, Pneumatic. W. F. Weatherly. No. 1,012,773; Dec. 26; Sp. p. 5250; Gaz. vol. 173; p. 940.
Car-step register. R. W. and L. R. Balch. No. 1,005,681; Oct. 10; Sp. p. 2452; Gaz. vol. 171; p. 420.
Car-step, Registering. G. W. Clements. No. 989,764; Apr. 18; Sp. p. 3151; Gaz. vol. 165; p. 553.
Car-steps, Folding. E. W. Lewis, G. W. Wright, and G. Francis. No. 996,594; June 27; Sp. p. 5470; Gaz. vol. 167; p. 957.
Car stop, Mine-. G. W. Jenkins and E. Lowry. No. 1,004,652; Oct. 3; Sp. p. 220; Gaz. vol. 171; p. 38.
Car-stopping mechanism, Railway-. C. F. Williams. No. 993,428; May 30; Sp. p. 5574; Gaz. vol. 166; p. 1023.
Car strap, Street-. G. W. Fleming. No. 1,010,133; Nov. 28; Sp. p. 5478; Gaz. vol. 172; p. 981.
Car, Street-. J. Wenston. No. 986,252; Mar. 7; Sp. p. 1036; Gaz. vol. 164; p. 166.
Car, Street-. C. H. Sholes. No. 1,003,378; Sept. 12; Sp. p. 2596; Gaz. vol. 170; p. 447.
Car, Street-. A. H. Bates. No. 1,010,843; Dec. 5; Sp. p. 991; Gaz. vol. 173; p. 155.
Car street-indicator. A. M. Wastell. No. 991,678; May 9; Sp. p. 1851; Gaz. vol. 166; p. 334.
Car street-signal. N. G. Augir. No. 994,363; June 6; Sp. p. 544; Gaz. vol. 167; p. 93.
Car supplemental seat, Motor-. G. H. Storm. No. 1,005,080; Oct. 3; Sp. p. 1089; Gaz. vol. 171; p. 184.
Car switch mechanism, Trolley-. W. M. Snyder. No. 987,503; Mar. 21; Sp. p. 3674; Gaz. vol. 164; p. 656.
Car switch, Street-. L. Z. Preston. No. 986,858; Mar. 14; Sp. p. 2337; Gaz. vol. 164; p. 405.
Car switch, Street-. B. B. Muir. No. 995,364; June 13; Sp. p. 2758; Gaz. vol. 167; p. 470.
Car, Tank-. A. Becker. No. 1,004,731; Oct. 3; Sp. p. 398; Gaz. vol. 171; p. 66.
Car, Tank-. C. A. Lindström. No. 1,011,216; Dec. 12; Sp. p. 1839; Gaz. vol. 173; p. 319.
Car, Tilting side-dump. C. H. Clark. No. 1,007,533; Oct. 31; Sp. p. 6549; Gaz. vol. 171; p. 1184.
Car-underframe. A. Becker. No. 983,263; Feb. 7; Sp. p. 7; Gaz. vol. 163; p. 4.
Car-underframe. A. J. McCauley. No. 985,361; Feb. 28; Sp. p. 4553; Gaz. vol. 163; p. 817.
Car-underframe. G. I. King. No. 989,850; Apr. 18; Sp. p. 3349; Gaz. vol. 165; p. 584.
Car-underframe. C. T. Westlake. No. 995,934; June 20; Sp. p. 4021; Gaz. vol. 167; p. 699.
Car-underframe. G. I. King. No. 998,696; July 25; Sp. p. 4564; Gaz. vol. 168; p. 832.
Car-underframe. G. I. King. No. 998,697; July 25; Sp. p. 4566; Gaz. vol. 168; p. 832.
Car-underframe. A. Becker. No. 999,293; Aug. 1; Sp. p. 189; Gaz. vol. 169; p. 36.
Car-underframe. C. H. Howard. No. 1,009,751; Nov. 28; Sp. p. 4698; Gaz. vol. 172; p. 852.
Car-underframe. H. C. Priebe. No. 1,012,012; Dec. 19; Sp. p. 3637; Gaz. vol. 173; p. 634.
Car-underframe. H. C. Priebe. No. 1,012,013; Dec. 19; Sp. p. 3640; Gaz. vol. 173; p. 635.
Car-underframe. H. C. Priebe. No. 1,012,014; Dec. 19; Sp. p. 3642; Gaz. vol. 173; p. 635.
Car-underframe. C. T. Westlake. No. 1,012,180; Dec. 19; Sp. p. 4017; Gaz. vol. 173; p. 692.
Car underframe, Railway-. V. M. Summa. No. 1,002,469; Sept. 5; Sp. p. 655; Gaz. vol. 170; p. 94.
Car underframe, Tank-. J. M. Rohlfing. No. 993,552; May 30; Sp. p. 5848; Gaz. vol. 166; p. 1066.
Car-unloading attachment. F. Kobler. No. 990,147; Apr. 18; Sp. p. 3957; Gaz. vol. 165; p. 683.
Car-unloading machine, Coal-. J. Steiner. No. 982,694; Jan. 24; Sp. p. 5513; Gaz. vol. 162; p. 950.
Car-ventilating apparatus. T. H. Garland. No. 989,840; Apr. 18; Sp. p. 3330; Gaz. vol. 165; p. 581.
Car-ventilating system. M. H. Shanley. No. 984,035; Feb. 14; Sp. p. 1713; Gaz. vol. 163; p. 295.
Car-ventilator. J. Greenburg. No. 992,956; May 23; Sp. p. 4572; Gaz. vol. 166; p. 834.
Car-ventilator. E. Day. No. 1,009,135; Nov. 21; Sp. p. 3350; Gaz. vol. 172; p. 592.
Car-vestibule construction. M. M. Schneider. No. 1,007,979; Nov. 7; Sp. p. 733; Gaz. vol. 172; p. 115.
Car vestibule system, Railway-. E. H. Schmidt. No. 1,012,451; Dec. 19; Sp. p. 4567; Gaz. vol. 173; p. 782.
Car-vestibule trap. J. Filion. No. 993,445; May 30; Sp. p. 5608; Gaz. vol. 166; p. 1028.
Car-vestibules, Folding gate for. W. S. Wright. No. 1,007,835; Nov. 7; Sp. p. 437; Gaz. vol. 172; p. 66.
Car-wheel. C. N. Crouch. No. 981,536; Jan. 10; Sp. p. 3071; Gaz. vol. 162; p. 501.
Car-wheel. C. J. Holcomb. No. 982,179; Jan. 17; Sp. p. 4434; Gaz. vol. 162; p. 743.
Car-wheel. F. K. Vial. No. 994,350; June 6; Sp. p. 511; Gaz. vol. 167; p. 88.
Car-wheel. W. Young. No. 998,731; July 25; Sp. p. 4662; Gaz. vol. 168; p. 845.
Car-wheel. J. M. GoodKnight. No. 1,001,754; Aug. 29; Sp. p. 5458; Gaz. vol. 169; p. 1005.
Car-wheel. E. P. King. No. 1,007,707; Nov. 7; Sp. p. 122; Gaz. vol. 172; p. 19.
Car-wheel. J. M. Hansen. No. 1,007,947; Nov. 7; Sp. p. 677; Gaz. vol. 172; p. 105.
Car wheel and axle, Combined. G. P. Eustis. No. 990,196; Apr. 18; Sp. p. 4070; Gaz. vol. 165; p. 700.
Car-wheel and brake-shoe. A. Waycott. No. 988,608; Apr. 4; Sp. p. 686; Gaz. vol. 165; p. 110.
Car-wheel equipment. J. Stuart. No. 986,323; Mar. 7; Sp. p. 1178; Gaz. vol. 164; p. 191.
Car-wheel-flange lubricator. J. E. Feeney. No. 998,487; July 18; Sp. p. 4099; Gaz. vol. 168; p. 726.

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Car-wheel, Flexible. M. Maginn. No. 982,217; Jan. 17; Sp. p. 4509; Gaz. vol. 162; p. 756.
Car-wheel guard. F. E. Hutchings. No. 980,958; Jan. 10; Sp. p. 1788; Gaz. vol. 162; p. 298.
Car wheel guard or fender, Electric-railway-. J. H. E. Branson, W. H. Quick, and T. F. Mackell. No. 1,011,021; Dec. 5; Sp. p. 1352; Gaz. vol. 173; p. 215.
Car-wheel lathe. G. E. Greenleaf. No. 987,227; Mar. 21; Sp. p. 3099; Gaz. vol. 164; p. 562.
Car-wheel lubricator. C. F. Gerlinger. No. 997,446; July 11; Sp. p. 1760; Gaz. vol. 168; p. 319.
Car-wheel lubricator. J. C. Rhoads. No. 1,005,309; Oct. 10; Sp. p. 1616; Gaz. vol. 171; p. 290.
Car-wheel molding and casting flask. A. Cordingly. No. 1,003,709; Sept. 19; Sp. p. 3328; Gaz. vol. 170; p. 596.
Car-wheel, Oilless. A. E. Domville. No. 997,656; July 11; Sp p. 2211; Gaz. vol. 168; p. 391.
Car wheel or tire blanks, Manufacturing. W. McConway. No. 994,020; May 30; Sp. p. 6830; Gaz. vol. 166; p. 1226.
Car-wheel removing and replacing apparatus. W. U. Appleton and G. E. McCoy. No. 1,002,797; Sept. 5; Sp. p. 1358; Gaz. vol. 170; p. 206.
Car-wheels, Apparatus for preparing blanks for the manufacture of. J. M. Hansen. No. 1,007,946; Nov. 7; Sp. p. 675; Gaz. vol. 172; p. 105.
Car-wheels, Apparatus for the manufacture of. J. M. Hansen. No. 1,007,942; Nov. 7; Sp. p. 666; Gaz. vol. 172; p. 103.
Car-wheels, Making. J. H. Taylor. No. 981,034; Jan. 10; Sp. p. 1972; Gaz. vol. 162; p. 325.
Car-wheels, &c., Making. S. S. Knight. No. 1,005,230; Oct. 10; Sp. p. 1419; Gaz. vol. 171; p. 260.
Car-wheels, Manufacture of. J. M. Hansen. No. 1,007,941; Nov. 7; Sp. p. 664; Gaz. vol. 172; p. 103.
Car-wheels, Manufacture of. J. M. Hansen. No. 1,007,943; Nov. 7; Sp. p. 669; Gaz. vol. 172; p. 104.
Car-wheels, Manufacture of. J. M. Hansen. No. 1,007,944; Nov. 7; Sp. p. 671; Gaz. vol. 172; p. 104.
Car-wheels, Manufacture of. J. M. Hansen. No. 1,007,945; Nov. 7; Sp. p. 673; Gaz. vol. 172; p. 104.
Car-window shield. W. B. Hanlon. No. 993,061; May 23; Sp. p. 4788; Gaz. vol. 166; p. 870.
Cars after being dumped, Means for automatically restoring. J. L. Blaker. No 986,264; Mar. 7; Sp. p. 1068; Gaz. vol. 164; p. 171.
Cars and other receptacles, Discharging-doors for dumping-. W. L. Coughtry. No. 983,026; Jan. 31; Sp. p. 6269; Gaz. vol. 162; p. 1090.
Cars and other road-carriages, Seat and body of motor-. A. E. Hodgson. No. 991,307; May 2; Sp. p. 1040; Gaz. vol. 166; p. 173.
Cars and other vehicles, Life-guard for. A. Hudson. (Reissue.) No. 13,192; Jan. 3; Sp. p. 1570; Gaz. vol. 162; p. 249.
Cars and supporting structure therefor, Draft-rigging for. W. P. Bettendorf. No. 995,996; June 20; Sp. p. 4134; Gaz. vol. 167; p. 719.
Cars and the like, Drop-spike and corner-bind for logging-. F. C. Bailey and B. Hoey. No. 997,032; July 4; Sp. p. 942; Gaz. vol. 168; p. 150.
Cars and the like, Guard or fender for street-. W. Fonger. No. 1,009,399; Nov. 21; Sp. p. 3984; Gaz. vol. 172; p. 688.
Cars and the like, Locking device for. W. F. Dunn. No. 999,969; Aug. 8; Sp. p. 1553; Gaz. vol. 169; p. 293.
Cars, Automatic coupling for signal, air, and steam between. F. R. Sheldon. No. 990,070; Apr. 18; Sp. p. 3795; Gaz. vol. 165; p. 657.
Cars, Combined berth and seats for railway-. J. Domanowski and M. Wójcik. No. 1,010,876; Dec. 5; Sp. p. 1062; Gaz. vol. 173; p. 166.
Cars, Controller-operated gong for electric. J. E. E. Nash. No. 1,004,675; Oct. 3; Sp. p. 267; Gaz. vol. 171; p. 46.
Cars, Corner-ladder for railway-. J. A. Keyes and I. R. Miller. No. 988,719; Apr. 4; Sp. p. 931; Gaz. vol. 165; p. 148.
Cars, Cross-bearer for dump-. C. A. Lindström. No. 993,082; May 23; Sp. p. 4837; Gaz. vol. 166; p. 878.
Cars, Draft construction for frame railway-. C. H. Seabrook and W. R. Duff. No. 990,013; Apr. 18; Sp. p. 3691; Gaz. vol. 165; p. 640.
Cars, Drive-gear for motor-. F. A. Ferguson. No. 998,764; July 25; Sp. p. 4737; Gaz. vol. 168; p. 857.
Cars, Emergency attachment for railway-. C. A. Martinez. No. 997,459; July 11; Sp. p. 1783; Gaz. vol. 168; p. 323.
Cars, End stiffener for railway-. W. S. Atwood. No. 987,279; Mar. 21; Sp. p. 3219; Gaz. vol. 164; p. 581.
Cars from the driver's seat or footboard, Device for starting motor-. S. H. Boswell. No. 994,370; June 6; Sp. p. 562; Gaz. vol. 167; p. 96.
Cars, Friction draft-gear for railway-. H. M. Pflager. No. 999,252; Aug. 1; Sp. p. 120; Gaz. vol. 169; p. 22.
Cars, Hauling attachment for tram-. J. R. Fleming. No. 1,011,336; Dec. 12; Sp. p. 2127; Gaz. vol. 173; p. 363.
Cars, Lamp-dimming device for motor-. W. A. Greenlaw. No. 1,005,197; Oct. 10; Sp. p. 1339; Gaz. vol. 171; p. 248.
Cars, Lamp-shifting mechanism for street-. A. Candle. No. 1,008,948; Nov. 14; Sp. p. 2946; Gaz. vol. 172; p. 492.
Cars, Life-guard or fender for railway-. G. A. Parmenter. No. 1,007,600; Oct. 31; Sp. p. 6701; Gaz. vol. 171; p. 1207.
Cars, &c., Life-guard or obstruction-remover for tram-. H. D. Whiteley. No. 1,012,181; Dec. 19; Sp. p. 4019; Gaz. vol. 173; p. 692.
Cars, Liquid-brake for railway-. A. P. Schmucker. No. 1,008,201; Nov. 7; Sp. p. 1182; Gaz. vol. 172; p. 194.
Cars, Load-brace for. J M. Daly. No. 994,822; June 13; Sp. p. 1592; Gaz. vol. 167; p. 289.
Cars, Load-retaining attachment for logging-. S. P. George. No. 998,084; July 18; Sp. p. 3225; Gaz. vol. 168; p. 583.
Cars, Means for operating extension-steps and trap-doors on railway-. C. F. Nye and R. D. Hayward. No. 999,246; Aug. 1; Sp. p. 111; Gaz. vol. 169; p. 20.
Cars, Means for operating the gasolene-tank valves of motor-. C. L. Thomas. No. 1,012,933; Dec. 26; Sp. p. 5663; Gaz. vol. 173; p. 994.
Cars, Metal running-board frame for box-. A. Ensbury and J. S. Taylor. No. 1,006,639; Oct. 24; Sp. p. 4598; Gaz. vol. 171; p. 820.
Cars, Metal-wall construction for railway-. E. H. Gold. No. 1,008,536; Nov. 14; Sp. p. 2057; Gaz. vol. 172; p. 351.
Cars, Mileage coasting-register for electric. P. Lindemann and E. B. Rich. No. 986,299; Mar. 7; Sp. p. 1122; Gaz. vol. 164; p. 181.
Cars, Motor leads connection for street-. H. Etheridge. No. 981,545; Jan. 10; Sp. p. 3092; Gaz. vol. 162; p. 504.
Cars or the like, Safety device for. G. Porter. No. 993,871; May 30; Sp. p. 6528; Gaz. vol. 166; p. 1176.
Cars or vehicles along a railway and the control thereof, Apparatus for governing the passage of. W. P. Neubert. No. 1,001,068; Aug. 22; Sp. p. 4045; Gaz. vol. 169; p. 744.
Cars, Plow for unloading. C. H. Byers. No. 988,926; Apr. 4; Sp. p. 1328; Gaz. vol. 165; p. 213.
Cars, Shoe for third-rail electric. L. A. McCoubrie and C. F. Raydure. No. 985,430; Feb. 28; Sp. p. 4726; Gaz. vol. 163; p. 840.
Cars, Shoe for third-rail electric. L. A. McCoubrie and C. F. Raydure. No. 1,009,767; Nov. 28; Sp. p. 4737; Gaz. vol. 172; p. 858.
Cars, Sliding door for passenger-. E. M. Moller and L. J. Remmele. No. 994,182; June 6; Sp. p. 163; Gaz. vol. 167; p. 29.
Cars, Speed-indicator for motor-. J. Onken. No. 987,644; Mar. 21; Sp. p. 3952; Gaz. vol. 164; p. 704.
Cars, Steam-coupling for railway-. T. Carence and E. W. Sumpter. No. 984,470; Feb. 14; Sp. p. 2613; Gaz. vol. 163; p. 441.
Cars, Steering mechanism for road freight-. M. J. Todd. No. 981,499; Jan. 10; Sp. p. 2999; Gaz. vol. 162; p. 488.
Cars, Street-indicator for. F. M. Stanley. No. 1,005,788; Oct. 10; Sp. p. 2655; Gaz. vol. 171; p. 458.
Cars, Street-indicator for railway-. W. C. Gray. No. 1,003,897; Sept. 19; Sp. p. 3695; Gaz. vol. 170; p. 658.
Cars, Temperature-changing device for. C. M. Gay. No. 984,553; Feb. 21; Sp. p. 2834; Gaz. vol. 163; p. 505.
Cars, Toilet mechanism for. A. L. Bower. No. 996,202; June 27; Sp. p. 4627; Gaz. vol. 167; p. 826.
Cars, Track-sanding device for trolley-. J. H. E. Branson, W. H. Quick, and T. F. Mackell. No. 988,438; Apr. 4; Sp. p. 320; Gaz. vol. 165; p. 52.
Cars, Transmission-gearing for motor-. J. O. Michaud. No. 993,862; May 30; Sp. p. 6513; Gaz. vol. 166; p. 1174.
Cars, Valve-operating mechanism for. G. W. Curtis. No. 1,002,370; Sept. 5; Sp. p. 453; Gaz. vol. 170; p. 63.
Cars, Water-supply system for passenger-. J. D. Carter. No. 1,009,279; Nov. 21; Sp. p. 3704; Gaz. vol. 172; p. 644.
Carbon-cap. A. C. Recker. No. 998,987; July 25; Sp. p. 5251; Gaz. vol. 168; p. 935.
Carbon chlorids, Apparatus for producing. J. MacKaye. No. 1,009,428; Nov. 21; Sp. p. 4051; Gaz. vol. 172; p. 699.
Carbon, Flaming-arc. W. T. Conn. No. 1,000,717; Aug. 15; Sp. p. 3242; Gaz. vol. 169; p. 586.
Carbon, Heating. W. A. Smith. No. 1,004,923; Oct. 3; Sp. p. 818; Gaz. vol. 171; p. 132.
Carbon-holder for electric furnaces. P. L. T. Héroult. No. 989,148; Apr. 11; Sp. p. 1795; Gaz. vol. 165; p. 312
Carbon-sheet. P. Hano. No. 1,002,058; Aug. 29; Sp. p. 6114; Gaz. vol. 169; p. 1105.
Carbon tetrachlorid, Producing. W. F. Doerflinger. No. 992,551; May 16; Sp. p. 3709; Gaz. vol. 166; p. 664.
Carbonating apparatus. H. M. Smith. No. 980,447; Jan. 3; Sp. p. 570; Gaz. vol. 162; p. 95.
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Carbonating apparatus. M. Stühler. No. 998,428; July 18; Sp. p. 3988; Gaz. vol. 168; p. 707.
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Carboy-cleaning device. A. J. Berg. No. 982,566; Jan. 24; Sp. p. 5262; Gaz. vol. 162; p. 908.
Carboy-holder. C. E. Torrey. No. 988,675; Apr. 4; Sp. p. 825; Gaz. vol. 165; p. 133.
Carboys, Receptacle for. K. F. Stahl. No. 1,000,449; Aug. 15; Sp. p. 2641; Gaz. vol. 169; p. 490.
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Carbureter. J. A. McHardy and C. A. Potter. No. 985,431; Feb. 28; Sp. p. 4727; Gaz. vol. 163; p. 840.
Carbureter. G. J. Dorman. No. 985,515; Feb. 28; Sp. p. 4915; Gaz. vol. 163; p. 872.
Carbureter. P. J. Grouvelle, E. H. Arquembourg, and L. J. Joret. No. 985,670; Feb. 28; Sp. p. 5227; Gaz. vol. 163; p. 923.
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Carbureter. W. C. Westaway. No. 999,686; Aug. 1; Sp. p. 962; Gaz. vol. 169; p. 168.
Carbureter. J. M. Ubrich. No. 1,000,054; Aug. 8; Sp. p. 1725; Gaz. vol. 169; p. 322.
Carbureter. W. M. Gentle. No. 1,000,398; Aug. 15; Sp. p. 2524; Gaz. vol. 169; p. 471.
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Carbureter. O. C. Kreis, Jr. No. 1,006,387; Oct. 17; Sp. p. 4012; Gaz. vol. 171; p. 699.
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Carbureter, Anterior-throttled. E. P. Noyes. No. 993,097; May 23; Sp. p. 4871; Gaz. vol. 166; p. 884.
Carbureter attachment. C. Schlayer. No. 1,007,010; Oct. 24; Sp. p. 5398; Gaz. vol. 171; p. 946.
Carbureter for gas and gasolene engines. F. Svagell and W. H. Padfield. No. 986,605; Mar. 14; Sp. p. 1803; Gaz. vol. 164; p. 320.
Carbureter for gas-engines. C. D. Shain. No. 1,004,091; Sept. 26; Sp. p. 4227; Gaz. vol. 170; p. 754.
Carbureter for internal-combustion engines. P. D. Lee. No. 998,355; July 18; Sp. p. 3839; Gaz. vol. 168; p. 682.
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Carbureter, Force-feed. B. Ivor. No. 1,004,031; Sept. 26; Sp. p. 4060; Gaz. vol. 170; p. 732.
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Carbureter-nozzle. T. H. Parker. No. 1,003,291; Sept. 12; Sp. p. 2430; Gaz. vol. 170; p. 418.
Carbureters, Oil-nozzle of spray-. H. E. Mills. No. 995,981; June 20; Sp. p. 4106; Gaz. vol. 167; p. 714.
Carbureters, Priming attachment for. T. J. McCarthy. No. 995,074; June 13; Sp. p. 2158; Gaz. vol. 167; p. 374.
Carbureters, Starting-heater for. C. W. Avery and F. E. Searle. No. 998,945; July 25; Sp. p. 5156; Gaz. vol. 168; p. 920.
Carbureting apparatus. G. H. Skinner. No. 998,993; July 25; Sp. p. 5260; Gaz. vol. 168; p. 937.
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Carbureting system. H. M. Reichenbach. No. 994,658; June 6; Sp. p. 1174; Gaz. vol. 167; p. 192.
Carcass dehairing and polishing machine. J. W. Kohlhepp. No. 1,002,920; Sept. 12; Sp. p. 1668; Gaz. vol. 170; p. 288.
Carcass scraping and polishing machine. J. W. Kohlhepp. No. 994,524; June 6; Sp. p. 873; Gaz. vol. 167; p. 146.
Carcass scraping and polishing machine. J. W. Kohlhepp. No. 1,012,654; Dec. 26; Sp. p. 5001; Gaz. vol. 173; p. 898.
Carcass-splitting machine. H. Vorsanger. No. 986,105; Mar. 7; Sp. p. 738; Gaz. vol. 164; p. 119.
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Card, Button-. A. L. Currier. No. 981,537; Jan. 10; Sp. p. 3071; Gaz. vol. 162; p. 501.
Card-case. E. N. Anderson. No. 982,758; Jan. 24; Sp. p. 5665; Gaz. vol. 162; p. 971.
Card-case. E. F. Hamill. No. 985,525; Feb. 28; Sp. p. 4943; Gaz. vol. 163; p. 875.
Card-case for folding cards. E. R. Sheppard. No. 985,071; Feb. 21; Sp. p. 3878; Gaz. vol. 163; p. 685.
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Card-dealing machine, Playing-. G. Murch. No. 999,670; Aug. 1; Sp. p. 933; Gaz. vol. 169; p. 163.
Card-delivery device. E. W. Towne. No. 984,785; Feb. 21; Sp. p. 3340; Gaz. vol. 163; p. 589.
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Card-holder. G. W. Barnett. No. 980,396; Jan. 3; Sp. p. 444; Gaz. vol. 162; p. 77.
Card-holder. J. A. Manson. No. 983,383; Feb. 7; Sp. p. 272; Gaz. vol. 163; p. 46.
Card-holder. J. A. Wilson. No. 989,094; Apr. 11; Sp. p. 1691; Gaz. vol. 165; p. 294.
Card-holder. W. H. Peak. No. 992,047; May 9; Sp. p. 2564; Gaz. vol. 166; p. 456.
Card-holder. S. Freeman. No. 993,674; May 30; Sp. p. 6132; Gaz. vol. 166; p. 1109.
Card holder, Playing-. C. Wilder. No. 986,665; Mar. 14; Sp. p. 1938; Gaz. vol. 164; p. 341.
Card, Index-. J. A. Frantz. No. 990,721; Apr. 25; Sp. p. 5299; Gaz. vol. 165; p. 914.
Card or ticket holder. H. H. Dudgeon. No. 1,009,726; Nov. 28; Sp. p. 4644; Gaz. vol. 172; p. 843.
Card-punching machine. P. Matthijssen. No. 986,479; Mar. 14; Sp. p. 1533; Gaz. vol. 164; p. 275.
Card-punching machine, Jacquard-. M. Schoenfeld. No. 987,259; Mar. 21; Sp. p. 3168; Gaz. vol. 164; p. 574.
Card-punching machine, Jacquard-. J. G. Soderberg. No. 1,003,214; Sept. 12; Sp. p. 2267; Gaz. vol. 170; p. 390.
Card-table, Folding. R. D. Stackpole. No. 994,612; June 6; Sp. p. 1060; Gaz. vol. 167; p. 176.
Cards, Playing-. C. F. Aikin. No. 1,004,520; Sept. 26; Sp. p. 5110; Gaz. vol. 170; p. 900.
Cards, Playing-. S. C. Legh. No. 1,007,460; Oct. 31; Sp. p. 6386; Gaz. vol. 171; p. 1159.
Cards, Playing-. H. L. Gaskill. No. 1,011,610; Dec. 12; Sp. 2759; Gaz. vol. 173; p. 462.
Cards, Playing-. E. F. Adams. No. 1,012,574; Dec. 26; Sp. p. 4829; Gaz. vol. 173; p. 871.
Cardboard and roofing-plate, Reinforced. H. Schlisske. No. 990,299; Apr. 25; Sp. p. 4316; Gaz. vol. 165; p. 768.
Cardboard-bending apparatus. G. R. Taylor. No. 999,909; Aug. 8; Sp. p. 1436; Gaz. vol. 169; p. 273.
Cardboard blanks, Machine for making. E. W. Bonfield and J. E. Fellows. No. 993,749; May 30; Sp. p. 6291; Gaz. vol. 166; p. 1135.
Cardboard blanks, Machine for making. E. W. Bonfield and J. E. Fellows. No. 1,011,906; Dec. 19; Sp. p. 3398; Gaz. vol. 173; p. 597.
Carding-engines, Apparatus for attaching filleting to the flat bars of. J. Dronsfield. No. 998,239; July 18; Sp. p. 3560; Gaz. vol. 168; p. 638.
Carding flocculent material, Machine for. J. A. Heany. No. 1,002,515; Sept. 5; Sp. p. 746; Gaz. vol. 170; p. 109.
Carding-machine. T. Egan, Sr. No. 988,320; Apr. 4; Sp. p. 54; Gaz. vol. 165; p. 11.
Carding-machine. J. Booth. No. 988,856; Apr. 4; Sp. p. 1196; Gaz. vol. 165; p. 191.
Carding-machine. P. Hardman. No. 993,677; May 30; Sp. p. 6139; Gaz. vol. 166; p. 1110.
Carding-machine condensing apparatus. R. J. Hill. No. 996,037; June 20; Sp. p. 4222; Gaz. vol. 167; p. 733.
Carding-machines, Clutch for feeding mechanism for. J. B. Howe. No. 998,003; July 18; Sp. p. 3040; Gaz. vol. 168; p. 554.
Cargo-handling apparatus. O. Lindsay. No. 994,171; June 6; Sp. p. 141; Gaz. vol. 167; p. 25.
Carline. H. W. Wolff. No. 987,421; Mar. 21; Sp. p. 3512; Gaz. vol. 164; p. 628.
Carline. C. A. Seley. No. 1,002,935; Sept. 12; Sp. p. 1696; Gaz. vol. 170; p. 293.
Carline, Metal. E. C. Covert. No. 1,003,435; Sept. 19; Sp. p. 2720; Gaz. vol. 170; p. 499.
Carline, Metallic. E. C. Covert. No. 982,412; Jan. 24; Sp. p. 4935; Gaz. vol. 162; p. 855.
Carousel. W. H. Wildrick. No. 988,419; Apr. 4; Sp. p. 277; Gaz. vol. 165; p. 45.
Carousel. F. O. Degenhardt. No. 991,199; May 2; Sp. p. 792; Gaz. vol. 166; p. 135.
Carousel bearing mechanism. H. B. Auchy. No. 988,536; Apr. 4; Sp. p. 527; Gaz. vol. 165; p. 84.
Carpenter's gage. A. C. Barrows. No. 1,008,005; Nov. 7; Sp. p. 782; Gaz. vol. 172; p. 124.
Carpenter's gage. F. Westendahl. No. 1,012,949; Dec. 26; Sp. p. 5705; Gaz. vol. 173; p. 1000.
Carpet and rug fastener. J. P. Williams. No. 995,644; June 20; Sp. p. 3390; Gaz. vol. 167; p. 597.
Carpet-beater. A. F. Mewis. No. 1,007,131; Oct. 31; Sp. p. 5689; Gaz. vol. 171; p. 1043.
Carpet-beater. R. Brownson. No. 1,009,130; Nov. 21; Sp. p. 3340; Gaz. vol. 172; p. 590.
Carpet-cleaner, Compressed-air. E. E. Overholt. No. 1,005,290; Oct. 10; Sp. p. 1564; Gaz. vol. 171; p. 282.
Carpet-cleaning apparatus. M. C. Warnock. No. 988,232; Mar. 28; Sp. p. 5254; Gaz. vol. 164; p. 932.
Carpet, Combination stair and hall. F. Ames. No. 985,490; Feb. 28; Sp. p. 4863; Gaz. vol. 163; p. 863.
Carpet-fastener. F. A. Schmich and H. Koegler. No. 989,650; Apr. 18; Sp. p. 2918; Gaz. vol. 165; p. 515.
Carpet-plucker. J. C. Owens. No. 1,008,610; Nov. 14; Sp. p. 2230; Gaz. vol. 172; p. 380.
Carpet-plucker. J. C. Owens. No. 1,008,611; Nov. 14; Sp. p. 2233; Gaz. vol. 172; p. 380.
Carpet-stretcher. O. C. Boff. No. 980,404; Jan. 3; Sp. p. 466; Gaz. vol. 162; p. 80.
Carpet-stretcher. W. E. and J. A. Rowe. No. 1,006,409; Oct. 17; Sp. p. 4058; Gaz. vol. 171; p. 707.
Carpet-sweeper. W. F. McGlinnen. No. 980,875; Jan. 3; Sp. p. 1493; Gaz. vol. 162; p. 239.
Carpet-sweeper. J. H. Townsend. No. 989,083; Apr. 11; Sp. p. 1671; Gaz. vol. 165; p. 290.
Carpet-sweeper. H. Stokes. No. 991,908; May 9; Sp. p. 2303; Gaz. vol. 166; p. 410.
Carpet-sweeper. J. W. Du Laney. No. 993,767; May 30; Sp. p. 6329; Gaz. vol. 166; p. 1141.
Carpet-sweeper. S. A. Davis. No. 1,010,871; Dec. 5; Sp. p. 1055; Gaz. vol. 173; p. 165.
Carpet-sweeper. J. W. Shanahan and W. E. Gill. No. 1,012,726; Dec. 26; Sp. p. 5163; Gaz. vol. 173; p. 925.
Carpet-sweeper, Vacuum. C. G. Lundin. No. 984,098; Feb. 14; Sp. p. 1842; Gaz. vol. 163; p. 317.

Carpet-sweepers, Vacuum attachment for. J. Schirra. No. 1,008,865; Nov. 14; Sp. p. 2764; Gaz. vol. 172; p. 465.
Carpets and like fabrics, Apparatus for cleaning. W. Rowbotham. No. 1,007,799; Nov. 7; Sp. p. 343; Gaz. vol. 172; p. 54.
Carpets and like fabrics, Apparatus for cleaning. W. Rowbotham. No. 1,007,800; Nov. 7; Sp. p. 344; Gaz. vol. 172; p. 54.
Carriage and like vehicle, Baby-. G. Harding. No. 994,077; May 30; Sp. p. 6940; Gaz. vol. 166; p. 1245.
Carriage and wagon draft attachment. G. A. Darden. No. 1,011,037; Dec. 5; Sp. p. 1389; Gaz. vol. 173; p. 221.
Carriage attachment, Baby-. M. Bleimann. No. 1,000,230; Aug. 8; Sp. p. 2154; Gaz. vol. 169; p. 383.
Carriage, Baby-. A. O. Morse. No. 997,466; July 11; Sp. p. 1794; Gaz. vol. 168; p. 325.
Carriage, Baby-. D. A. McCloy. No. 1,008,173; Nov. 7; Sp. p. 1114; Gaz. vol. 172; p. 183.
Carriage, Baby-. E. C. Hamilton. No. 1,011,776; Dec. 12; Sp. p. 3088; Gaz. vol. 173; p. 517.
Carriage-brake. F. W. Wright. No. 997,531; July 11; Sp. p. 1935; Gaz. vol. 168; p. 347.
Carriage-control mechanism. C. Spiro. No. 987,767; Mar. 28; Sp. p. 4246; Gaz. vol. 164; p. 774.
Carriage-door lock. J. F. Streberger. No. 987,651; Mar. 21; Sp. p. 3966; Gaz. vol. 164; p. 707.
Carriage-equalizer. S. P. Raymer. No. 1,013,060; Dec. 26; Sp. p. 5929; Gaz. vol. 173; p. 1038.
Carriage fan attachment, Baby-. E. F. Clements. No. 1,007,920; Nov. 7; Sp. p. 623; Gaz. vol. 172; p. 96.
Carriage-fitting. A. W. Smith. No. 1,005,484; Oct. 10; Sp. p. 1990; Gaz. vol. 171; p. 350.
Carriage, Folding. L. A. Griffith. No. 991,150; May 2; Sp. p. 687; Gaz. vol. 166; p. 117.
Carriage, Folding. C. S. Spofford. No. 1,005,348; Oct. 10; Sp. p. 1702; Gaz. vol. 171; p. 304.
Carriage-prop pivot. D. P. Thorpe. No. 1,000,209; Aug. 8; Sp. p. 2117; Gaz. vol. 169; p. 376.
Carriage-propelling means. W. D. Seal. No. 986,227; Mar. 7; Sp. p. 971; Gaz. vol. 164; p. 158.
Carriage running-gear, Child's-. R. W. Hoey. No. 993,066; May 23; Sp. p. 4797; Gaz. vol. 166; p. 872.
Carriage-wrench. C. A. Winchenbach. No. 991,681; May 9; Sp. p. 1857; Gaz. vol. 166; p. 336.
Carriages and the like, Means for automatically reversing reciprocative. R. N. Murphy. No. 995,080; June 13; Sp. p. 2173; Gaz. vol. 167; p. 377.
Carriages, Rocking attachment for baby-. J. W. Ivers. No. 987,234; Mar. 21; Sp. p. 3114; Gaz. vol. 164; p. 564.
Carriages, Sleighing attachment for. J. P. McCready. No. 1,003,934; Sept. 19; Sp. p. 3817; Gaz. vol. 170; p. 671.
Carrier: *See* Bale-carrier; Ball-carrier; Berry-carrier; Bobbin-carrier; Bottle-carrier; Cable-carrier; Casket-carrier; Chain carrier; Child-carrier; Cop-carrier; Display-carrier; Egg-carrier; Elevated carrier; Ensilage-carrier; Fall-rope carrier; Feed and litter carrier; Garment-carrier; Hay-carrier; Hay-sling carrier; Litter-carrier; Load-carrier; Luggage-carrier; Mail-carrier; Manure-carrier; Match-splint carrier; Overhead carrier; Pack-carrier; Package-carrier; Pattern-carrier; Pneumatic-despatch-system carrier; Slide-carrier; Stereopticon-slide carrier; Target-carrier; Trace-carrier; Umbrella-carrier; Water-carrier; Wing-carrier; Yarn-carrier.
Carrier. J. Heimer. No. 980,523; Jan. 3; Sp. p. 766; Gaz. vol. 162; p. 122.
Carrier. M. L. Emerson. No. 985,988; Mar. 7; Sp. p. 511; Gaz. vol. 164; p. 81.
Carrier. H. McCabe. No. 990,060; Apr. 18; Sp. p. 3782; Gaz. vol. 165; p. 654.
Carrier. C. J. Anderson. No. 991,411; May 2; Sp. p. 1242; Gaz. vol. 166; p. 208.
Carrier. R. H. Beattie. No. 992,748; May 23; Sp. p. 4105; Gaz. vol. 166; p. 760.
Carrier. F. R. Ashton. No. 994,362; June 6; Sp. p. 543; Gaz. vol. 167; p. 93.
Carrier. J. Rioth, Jr. No. 999,185; July 25; Sp. p. 5625; Gaz. vol. 168; p. 1000
Carrier. J. W. Moore. No. 1,000,429; Aug. 15; Sp. p. 2595; Gaz. vol. 169; p. 483.
Carrier. H. L. Roberts. No. 1,001,307; Aug. 22; Sp. p. 4535; Gaz. vol. 169; p. 822.
Carrier brake, Overhead-. A. Gahlmann. No. 981,079; Jan. 10; Sp. p. 2072; Gaz. vol. 162; p. 341.
Carrier stop device. H. L. Ferris. No. 1,007,934; Nov. 7; Sp. p. 650; Gaz. vol. 172; p. 101.
Carrier system. W. Aab. No. 982,920; Jan. 31; Sp. p. 6028; Gaz. vol. 162; p. 1055.
Carrier-system elevator, Gravity-. R. D. Hutchinson. No. 1,004,266; Sept. 26; Sp. p. 4601; Gaz. vol. 170; p. 813.
Carrier-track. W. and J. F. Mitchell. No. 981,456; Jan. 10; Sp. p. 2928; Gaz. vol. 162; p. 474.
Carrier-track. G. Lane. No. 1,013,025; Dec. 26; Sp. p. 5864; Gaz. vol. 173; p. 1025.
Carriers, Elevated track for. J. C Fitzgerald. (Reissue.) No. 13,246; May 30; Sp. p. 7001; Gaz. vol. 166; p. 1256.
Carriers or containers, Supporting and retaining device for article. A. H. Stevenson. No. 992,998; May 23; Sp. p. 4653; Gaz. vol. 166; p. 849.
Carriers, Retaining device for overhead. A. P. Nelson. No. 1,004,809; Oct. 3; Sp. p. 562; Gaz. vol. 171; p. 92.
Carriers, Tripping device for overhead. J. H. Peters. No. 985,056; Feb. 21; Sp. p. 3851; Gaz. vol. 163; p. 680.
Cart. A. N. Doud. No. 1,005,617; Oct. 10; Sp. p. 2308; Gaz. vol. 171; p. 398.
Cart. P. A. Kalbaugh. No. 1,005,979; Oct. 17; Sp. p. 3100; Gaz. vol. 171; p. 557.
Cart brake, Logging-. P. Johnston. No. 981,568; Jan. 10; Sp. p. 3139; Gaz. vol. 162; p. 512.
Cart device, Hand-. F. Ferguson. No. 981,988; Jan. 17; Sp. p. 4068; Gaz. vol. 162; p. 679.
Cart, Knockdown. R. C. Rasmussen. No. 995,566; June 20; Sp. p. 3197; Gaz. vol. 167; p. 568.
Cart, Self-loading. N. L. Goodwin. No. 987,621; Mar. 21; Sp. p. 3898; Gaz. vol. 164; p. 694.
Carton. G. A. Robinson. No. 1,007,390; Oct. 31; Sp. p. 6245; Gaz. vol. 171; p. 1136.
Carton, Cardboard. G. C. Pexton. No. 1,000,624; Aug. 15; Sp. p. 3053; Gaz. vol. 169; p. 555.
Carton-closing machine. F. J. Heybach. No. 995,965; June 20; Sp. p. 4069; Gaz. vol. 167; p. 709.
Carton-marking attachment. W. S. Cleaves. No. 991,828; May 9; Sp. p. 2148; Gaz. vol. 166; p. 382.
Carton-setting-up machine. F. J. Heybach. No. 1,001,268; Aug. 22; Sp. p. 4440; Gaz. vol. 169; p. 808.
Cartridge. R. G. Clyne. No. 1,002,038; Aug. 29; Sp. p. 6080; Gaz. vol. 169; p. 1099.
Cartridge belt or carrier. F. R. Batchelder. No. 985,499; Feb. 28; Sp. p. 4878; Gaz. vol. 163; p. 866.
Cartridge cut-out, Explosion-proof-. W. Klement. No. 1,007,876; Nov. 7; Sp. p. 528; Gaz. vol. 172; p. 80.
Cartridge, Electric-fuse. J. Grohowsky. No. 988,873; Apr. 4; Sp. p. 1228; Gaz. vol. 165; p. 196.
Cartridge-fuse. A. F. Daum. (Reissue.) No. 13,312; Nov. 14; Sp. p. 3129; Gaz. vol. 172; p. 521.
Cartridge-fuse, Refillable. E. B. Mallory. No. 1,005,253; Oct. 10; Sp. p. 1478; Gaz. vol. 171; p. 268.
Cartridge-loading machine, Hunting-. S. Berti. No. 986,349; Mar. 7; Sp. p. 1237; Gaz. vol. 164; p. 200.
Cartridge-magazine. P. Mauser. No. 999,387; Aug. 1; Sp. p. 390; Gaz. vol. 169; p. 69.
Cartridge or shell boxing mechanism. J. P. Remington, Jr. No. 987,914; Mar. 28; Sp. p. 4579; Gaz. vol. 164; p. 825.
Cartridge-register, Automatic. W. H. Maple and O. F. Turner. No. 982,618; Jan. 24; Sp. p. 5365; Gaz. vol. 162; p. 925.
Cartridge-shell. L. A. and H. E. Sherman. No. 980,351; Jan. 3; Sp. p. 339; Gaz. vol. 162; p. 62.
Cartridge-shells, Machine for breaking up. H. D. Hodge. No. 982,496; Jan. 24; Sp. p. 5126; Gaz. vol. 162; p. 884.
Cartridges and shells, Reloading-machine for. S. G. Wray. No. 1,012,784; Dec. 26; Sp. p. 5303; Gaz. vol. 173; p. 945.
Cartridges, Device for introducing energizing material into the charge of blasting-. G. M. Peters and M. F. Lindsley. No. 999,396; Aug. 1; Sp. p. 406; Gaz. vol. 169; p. 72.
Carving and gaining machine. R. G. Guptill. No. 995,454; June 20; Sp. p. 2962; Gaz. vol. 167; p. 528.
Carving-machine. F. H. Richards. No. 1,005,310; Oct. 10; Sp. p. 1617; Gaz. vol. 171; p. 290.
Carving-machine. F. H. Richards. No. 1,008,436; Nov. 14; Sp. p. 1817; Gaz. vol. 172; p. 315.
Case: *See* Automobile shipping-case; Ball-case; Bed-case; Bookcase; Bottle-case; Box-case; Card-case; Cheese-case; Cigar-case; Cigar show-case; Cigarette and cigar case; Clock-case; Comb-case; Confection-cone case; Dispensing-case; Display-case; Display and icing case; Drill-case; Egg-case; Eyeglass-case; File-case; File or transfer case; Filing-case; Folding case; Fuse-case; Fuse-protecting case; Gear-case; Jewelry-case; Knock-down case; Mail-case; Match-box case; Packing-case; Pencil-case; Pillow-case; Pocket-case; Shaving-case; Shipping-case; Show-case; Spectacle-case; Suit-case; Telegraph-transmitter case; Thermometer-case; Ticket-holding case; Tire-case; Tumbler-case; Type-case.
Case for vials, &c. E. B. Chapman. No. 999,362; Aug. 1; Sp. p. 338; Gaz. vol. 169; p. 59.
Case-hardening. A. W. Machlet. No. 994,322; June 6; Sp. p. 451; Gaz. vol. 167; p. 77.
Casing mechanism. J. S. Stewart. No. 984,449; Feb. 14; Sp. p. 2567; Gaz. vol. 163; p. 435.
Casing-perforator. A. E. Raine. No. 984,702; Feb. 21; Sp. p. 3156; Gaz. vol. 163; p. 558.
Casing-perforator. E. A. Hardison. No. 1,004,782; Oct. 3; Sp. p. 504; Gaz. vol. 171; p. 83.
Casing-shoe. A. G. Heggem. No. 982,491; Jan. 24; Sp. p. 5119; Gaz. vol. 162; p. 883.
Casings, Lining the working chambers of internally-irregularly-shaped. J. Rowbotham. No. 1,012,920; Dec. 26; Sp. p. 5613; Gaz. vol. 173; p. 990.
Casement, Metal. W. Roper. No. 1,012,225; Dec. 19; Sp. p. 4124; Gaz. vol. 173; p. 707.
Casein, Soluble. C. A. Baechler. No. 999,083; July 25; Sp. p. 5445; Gaz. vol. 168; p. 969.
Casein, Soluble. C. A. Baechler. No. 999,084; July 25; Sp. p. 5446; Gaz. vol. 168; p. 969.

Cash-box. M. Kamenstein. No. 991,513; May 9; Sp. p. 1463; Gaz. vol. 166; p. 274.
Cash-box alarm. W. E. Dawson and R. McAlpine. No. 1,002,232; Sept. 5; Sp. p. 87; Gaz. vol. 170; p. 10.
Cash-box, Portable. L. Voye. No. 994,893; June 13; Sp. p. 1774; Gaz. vol. 167; p. 313.
Cash indicator and register. F. C. Osborn. No. 982,853; Jan. 31; Sp. p. 5871; Gaz. vol. 162; p. 1033.
Cash-register. G. A. Wineman. No. 983,590; Feb. 7; Sp. p. 730; Gaz. vol. 163; p. 114.
Cash-register. J. Blatz. No. 984,416; Feb. 14; Sp. p. 2498; Gaz. vol. 163; p. 423.
Cash-register. C. A. Lundgren. No. 987,149; Mar. 21; Sp. p. 2903; Gaz. vol. 164; p. 533.
Cash-register. E. L. Pearson. No. 987,908; Mar. 28; Sp. p. 4567; Gaz. vol. 164; p. 823.
Cash-register. W. H. Muzzy. No. 988,371; Apr. 4; Sp. p. 175; Gaz. vol. 165; p. 29.
Cash-register. H. Poser. No. 988,383; Apr. 4; Sp. p. 203; Gaz. vol. 165; p. 33.
Cash-register. H. S. Hallwood. No. 992,128; May 9; Sp. p. 2727; Gaz. vol. 166; p. 483.
Cash-register. E. J. von Pein. No. 992,827; May 23; Sp. p. 4270; Gaz. vol. 166; p. 788.
Cash-register. W. H. Muzzy. No. 994,772; June 13; Sp. p. 1480; Gaz. vol. 167; p. 272.
Cash-register. W. H. Muzzy. No. 994,773; June 13; Sp. p. 1484; Gaz. vol. 167; p. 272.
Cash-register. W. H. Muzzy. No. 994,774; June 13; Sp. p. 1486; Gaz. vol. 167; p. 273.
Cash-register. C. Trog. No. 995,501; June 20; Sp. p. 3059; Gaz. vol. 167; p. 545.
Cash-register. W. Sumner. No. 996,161; June 27; Sp. p. 4483; Gaz. vol. 167; p. 811.
Cash-register. B. B. Wells. No. 996,176; June 27; Sp. p. 4571; Gaz. vol. 167; p. 816.
Cash-register. E. J. von Pein. No. 996,814; July 4; Sp. p. 435; Gaz. vol. 168; p. 73.
Cash-register. E. S. Church. No. 998,601; July 25; Sp. p. 4354; Gaz. vol. 168; p. 798.
Cash-register. J. P. Cleal. No. 998,602; July 25; Sp. p. 4357; Gaz. vol. 168; p. 798.
Cash-register. C. A. Lundgren. No. 998,623; July 25; Sp. p. 4400; Gaz. vol. 168; p. 806.
Cash-register. F. L. Fuller. No. 1,003,732; Sept. 19; Sp. p. 3372; Gaz. vol. 170; p. 603.
Cash-register. E. S. Church. No. 1,004,848; Oct. 3; Sp. p. 651; Gaz. vol. 171; p. 106.
Cash-register. C. F. Kettering. No. 1,004,881; Oct. 3; Sp. p. 740; Gaz. vol. 171; p. 119.
Cash-register. J. L. Morris and W. D. Jamieson. No. 1,005,280; Oct. 10; Sp. p. 1539; Gaz. vol. 171; p. 279.
Cash-register. C. F. Kettering. No. 1,005,555; Oct. 10; Sp. p. 2149; Gaz. vol. 171; p. 376.
Cash-register. E. S. Church. No. 1,005,601; Oct. 10; Sp. p. 2281; Gaz. vol. 171; p. 392.
Cash-register. W. M. McCarthy. No. 1,006,251; Oct. 17; Sp. p. 3713; Gaz. vol. 171; p. 653.
Cash-register. T. Carroll. No. 1,006,356; Oct. 17; Sp. p. 3938; Gaz. vol. 171; p. 688.
Cash-register. J. P. Cleal. No. 1,006,358; Oct. 17; Sp. p. 3954; Gaz. vol. 171; p. 689.
Cash-register. W. H. Muzzy. No. 1,008,357; Nov. 14; Sp. p. 1582; Gaz. vol. 172; p. 288.
Cash-register. C. F. Kettering and W. A. Chryst. No. 1,011,966; Dec. 19; Sp. p. 3523; Gaz. vol. 173; p. 617.
Cash-register. C. Palmer. No. 1,011,996; Dec. 19; Sp. p. 3600; Gaz. vol. 173; p. 628.
Cash-register. C. Palmer. No. 1,011,997; Dec. 19; Sp. p. 3605; Gaz. vol. 173; p. 629.
Cash-register. J. H. McCormick. No. 1,012,682; Dec. 26; Sp. p. 5052; Gaz. vol. 173; p. 907.
Cash register and indicator. C. D. Grimes. No. 987,131; Mar. 21; Sp. p. 2860; Gaz. vol. 164; p. 527.
Cash register and recorder. T. Carroll. No. 980,201; Jan. 3; Sp. p. 44; Gaz. vol. 162; p. 11.
Cash-register, Auditing. I. Fluegelman. No. 994,735; June 13; Sp. p. 1386; Gaz. vol. 167; p. 259.
Cash-register, Electric. J. P. Cleal. No. 982,938; Jan. 31; Sp. p. 6064; Gaz. vol. 162; p. 1061.
Cash-register, Electric. C. B. Foster. No. 988,327; Apr. 4; Sp. p. 68; Gaz. vol. 165; p. 14.
Cash-register, Multiple. E. J. von Pein. No. 1,008,397; Nov. 14; Sp. p. 1720; Gaz. vol. 172; p. 302.
Cash-register-operating mechanism. T. Carroll. No. 982,936; Jan. 31; Sp. p. 6057; Gaz. vol. 162; p. 1060.
Cash-register, Refunding. E. J. Von Pein. No. 987,196; Mar. 21; Sp. p. 3042; Gaz. vol. 164; p. 551.
Cash-register with distant indication. W. F. Schweiger. No. 996,805; July 4; Sp. p. 407; Gaz. vol. 168; p. 69.
Cash-register with distant indication, Electrical. W. H. Muzzy. No. 996,786; July 4; Sp. p. 368; Gaz. vol. 168; p. 63.
Cash-registers, Paper-roll for. S. E. Yantis. No. 1,011,549; Dec. 12; Sp. p. 2585; Gaz. vol. 173; p. 438.
Cashier, Mechanical. E. S. Church. No. 985,145; Feb. 28; Sp. p. 4047; Gaz. vol. 163; p. 744.
Cashier's protecting device, Bank-. B. F. Miller. No. 1,000,747; Aug. 15; Sp. p. 3306; Gaz. vol. 169; p. 597.
Cask or barrel, Metallic. I. W. Hoyer. No. 997,556; July 11; Sp. p. 1983; Gaz. vol. 168; p. 354.
Cask or barrel, Separable. A. A. Taylor. No. 1,001,323; Aug. 22; Sp. p. 4579; Gaz. vol. 169; p. 828.
Casket. L. H. Montross. No. 992,794; May 23; Sp. p. 4197; Gaz. vol. 166; p. 775.
Casket. J. H. Mowen. No. 995,549; June 20; Sp. p. 3165; Gaz. vol. 167; p. 563.
Casket-box fastener, Burial-. W. D. McLeod. No. 1,010,509; Dec. 5; Sp. p. 253; Gaz. vol. 173; p. 40.
Casket, Burial-. W. E. Swartz. No. 998,133; July 18; Sp. p. 3333; Gaz. vol. 168; p. 600.
Casket, Burial-. N. S. Peterman. No. 1,003,943; Sept. 19; Sp. p. 3844; Gaz. vol. 170; p. 674.
Casket, Burial-. G. H. Hollister. No. 1,005,547; Oct. 10; Sp. p. 2121; Gaz. vol. 171; p. 373.
Casket, Burial-. W. O. Schroyer. No. 1,011,858; Dec. 12; Sp. 3274; Gaz. vol. 173; p. 544.
Casket, Canopy-. W. B. Jones. No. 999,111; July 25; Sp. p. 5488; Gaz. vol. 168; p. 977.
Casket carrier and decoration, Burial-. L. H. Montross. No. 1,001,424; Aug. 22; Sp. p. 4785; Gaz. vol. 169; p. 862.
Casket-clamp for hearses. W. W. Lincoln. No. 986,186; Mar. 7; Sp. p. 899; Gaz. vol. 164; p. 145.
Casket construction. C. F. Wetmore. No. 983,963; Feb. 14; Sp. p. 1541; Gaz. vol. 163; p. 271.
Casket-handle. A. M. Holstein. No. 993,996; May 30; Sp. p. 6777; Gaz. vol. 166; p. 1217.
Casket-mattress. H. M. Leonard. No. 988,117; Mar. 28; Sp. p. 5039; Gaz. vol. 164; p. 894.
Casket-sealing means. L. H. Montross. No. 987,906; Mar. 28; Sp. p. 4563; Gaz. vol. 164; p. 822.
Caskets, Head and shoulder support for. T. W. Coughlin. No. 985,512; Feb. 28; Sp. p. 4911; Gaz. vol. 163; p. 871.
Caster. H. J. Horwich. No. 982,820; Jan. 31; Sp. p. 5807; Gaz. vol. 162; p. 1022.
Caster. B. M. Wilkerson. No. 984,457; Feb. 14; Sp. p. 2589; Gaz. vol. 163; p. 438.
Caster. C. A. Linden. No. 984,824; Feb. 21; Sp. p. 3410; Gaz. vol. 163; p. 601.
Caster. R. J. Russel. No. 985,455; Feb. 28; Sp. p. 4785; Gaz. vol. 163; p. 850.
Caster. H. P. Eilers. No. 986,812; Mar. 14; Sp. p. 2244; Gaz. vol. 164; p. 389.
Caster. H. W. Taylor. No. 992,290; May 16; Sp. p. 3133; Gaz. vol. 166; p. 570.
Caster. R. P. Heron. No. 998,511; July 18; Sp. p. 4150; Gaz. vol. 168; p. 735.
Caster. M. Schwartz. No. 1,012,167; Dec. 19; Sp. p. 3985; Gaz. vol. 173; p. 687.
Caster. W. T. De Vlaming. No. 1,012,228; Dec. 19; Sp. p. 4129; Gaz. vol. 173; p. 708.
Caster, Adjustable. W. J. Hanpeter. No. 1,000,731; Aug. 15; Sp. p. 3267; Gaz. vol. 169; p. 591.
Caster, Ball-. A. N. Bailey. No. 982,409; Jan. 24; Sp. p. 4930; Gaz. vol. 162; p. 854.
Caster, Ball-. S. W. Bennett. No. 1,005,799; Oct. 17; Sp. p. 2681; Gaz. vol. 171; p. 492.
Caster, Furniture-. B. P. Kenyon. No. 980,965; Jan. 10; Sp. p. 1804; Gaz. vol. 162; p. 301.
Caster, Furniture-. N. S. Covey. No. 983,210; Jan. 31; Sp. p. 6622; Gaz. vol. 162; p. 1151.
Caster, Furniture-. T. Doll. No. 1,007,022; Oct. 24; Sp. p. 5417; Gaz. vol. 171; p. 950.
Caster, Furniture-. T. Doll. No. 1,009,388; Nov. 21; Sp. p. 3956; Gaz. vol. 172; p. 684.
Caster, Furniture-. T. Doll. No. 1,009,389; Nov. 21; Sp. p. 3959; Gaz. vol. 172; p. 684.
Caster, Gymnasium-. W. F. Reach. No. 999,184; July 25; Sp. p. 5624; Gaz. vol. 168; p. 1000.
Caster, Protective. F. L. S. Means. No. 1,012,404; Dec. 19; Sp. p. 4480; Gaz. vol. 173; p. 767.
Caster-roller, Ball-bearing. A. H. Schaffnit. No. 984,855; Feb. 21; Sp. p. 3462; Gaz. vol. 163; p. 612.
Casting. C. T. Westlake. No. 980,719; Jan. 3; Sp. p. 1171; Gaz. vol. 162; p. 186.
Casting. R. B. Browne. No. 982,572; Jan. 24; Sp. p. 5274; Gaz. vol. 162; p. 910.
Casting and painting material, Manufacturing. S. Medveczky. No. 1,012,887; Dec. 26; Sp. p. 5548; Gaz. vol. 173; p. 979.
Casting apparatus. A. Jameson. No. 990,816; Apr. 25; Sp. p. 5495; Gaz. vol. 165; p. 947.
Casting apparatus, Centrifugal. E. P. Binford. No. 986,130; Mar. 7; Sp. p. 783; Gaz. vol. 164; p. 127.
Casting chilled car-wheels or other circular objects, Mold for. T. D. West. No. 981,904; Jan. 17; Sp. p. 3856; Gaz. vol. 162; p. 650.
Casting chilled rolls. J. B. Henry. No. 1,011,430; Dec. 12; Sp. p. 2307; Gaz. vol. 173; p. 594.
Casting copper bars, ingots, &c. L. Addicks and A. Marks. No. 980,584; Jan. 3; Sp. p. 883; Gaz. vol. 162; p. 142.
Casting ingots. E. Gathmann. No. 983,357; Feb. 7; Sp. p. 213; Gaz. vol. 163; p. 37.
Casting-machine. V. H. Mills. No. 989,387; Apr. 11; Sp. p. 2322; Gaz. vol. 165; p. 393.
Casting-machine. J. Soss. No. 1,009,107; Nov. 21; Sp. p. 3297; Gaz. vol. 172; p. 583.
Casting-machine. J. Soss. No. 1,009,263; Nov. 21; Sp. p. 3660; Gaz. vol. 172; p. 638.

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Casting-machine. F. Engel. No. 1,012,829; Dec. 26; Sp. p. 5408; Gaz. vol. 173; p. 960.
Casting-machine, Centrifugal. G. S. Monson. No. 1,009,167; Nov. 21; Sp. p. 3409; Gaz. vol. 172; p. 603.
Casting-machine for siphon-heads. F. A. Poncet. No. 1,010,313; Nov. 28; Sp. p. 5842; Gaz. vol. 172; p. 1040.
Casting machine, Inlay-. J. A. Johnson and C. M. Hedman. No. 999,794; Aug. 8; Sp. p. 1193; Gaz. vol. 169; p. 234.
Casting machine, Inlay-. F. H. Nies. No. 1,004,185; Sept. 26; Sp. p. 4445; Gaz. vol. 170; p. 787.
Casting, Metal. H. L. Whittemore. No. 1,002,889; Sept. 12; Sp. p. 1596; Gaz. vol. 170; p. 277.
Casting metal under pressure, Apparatus for. S. Enomoto. No. 1,001,005; Aug. 22; Sp. p. 3913; Gaz. vol. 169; p. 720.
Casting-mold. E. E. Porter. No. 999,865; Aug. 8; Sp. p. 1336; Gaz. vol. 169; p. 258.
Casting-molds, Method of and means for forming. A. F. Howe. No. 995,968; June 20; Sp. p. 4082; Gaz. vol. 167; p. 710.
Casting-pattern. C. F. Forster. No. 985,154; Feb. 28; Sp. p. 4100; Gaz. vol. 163; p. 747.
Casting pattern, Metal-. G. H. Kramer. No. 1,010,643; Dec. 5; Sp. p. 542; Gaz. vol. 173; p. 85.
Casting steam-turbine wheels, &c. W. T. Hopson and C. B. Rearick. No. 1,008,478; Nov. 14; Sp. p. 1936; Gaz. vol. 172; p. 331.
Casting steel boxes. L. G. Woods. No. 991,258; May 2; Sp. p. 916; Gaz. vol. 166; p. 155.
Casting steel ingots. N. Kostileff. No. 1,003,275; Sept. 12; Sp. p. 2399; Gaz. vol. 170; p. 412.
Casting-table. S. Delchevalerie, Sr., and H. J. Debay. No. 999,015; July 25; Sp. p. 5310; Gaz. vol. 168; p. 945.
Casting thin strips of metal. B. C. Edkin. No. 987,867; Mar. 28; Sp. p. 4456; Gaz. vol. 164; p. 809.
Castings and the like, Apparatus for cleaning. C. W. Carolin. No. 999,485; Aug. 1; Sp. p. 574; Gaz. vol. 169; p. 100.
Castings, Apparatus for forming. T. G. Vernon and R. C. Brophy. No. 985,080; Feb. 21; Sp. p. 3891; Gaz. vol. 163; p. 687.
Castings, Apparatus for making. W. H. Taggart. No. 983,580; Feb. 7; Sp. p. 710; Gaz. vol. 163; p. 110.
Castings, Core for hollow. J. K. Dimmick. No. 993,156; May 23; Sp. p. 4987; Gaz. vol. 166; p. 902.
Castings, Forming molds for. C. H. Howard. No. 999,308; Aug. 1; Sp. p. 219; Gaz. vol. 169; p. 41.
Castings, Making locally-hardened. F. K. Vial. No. 1,004,115; Sept. 26; Sp. p. 4280; Gaz. vol. 170; p. 762.
Castings, Making molds for metal. G. H. Brabrook. No 984,469; Feb. 14; Sp. p. 2612; Gaz. vol. 163; p. 441.
Castings, Means for eliminating risers on. R. P. Lamont. No. 1,007,458; Oct. 31; Sp. p. 6383; Gaz. vol. 171; p. 1159.
Castings of precious metal, Mold for. L. W. Swem. No. 981,033; Jan. 10; Sp. p. 1971; Gaz. vol. 162; p. 325.
Castings-pattern. O. H. Marschuetz, W. G. Probst, and J. C. Reed. No. 985,822; Mar. 7; Sp. p. 106; Gaz. vol. 164; p. 22.
Castings, Producing sound metal. L. Weiss. No. 982,326; Jan. 24; Sp. p. 4764; Gaz. vol. 162; p. 825.
Catafalque. J. S. Hainline. No. 1,002,985; Sept. 12; Sp. p. 1791; Gaz. vol. 170; p. 310.
Catalytic synthesis of methane. F. Bedford and C. E. Williams. No. 983,199; Jan. 31; Sp. p. 6594; Gaz. vol. 162; p. 1147.
Catalytic synthesis of methane. F. Bedford and C. E. Williams. No. 989,755; Apr. 18; Sp. p. 3130; Gaz. vol. 165; p. 551.
Catalyzers, Making metallic. E. C. Kayser. No. 1,004,034; Sept. 26; Sp. p. 4069; Gaz. vol. 170; p. 733.
Catamaran. S. S. Yarrington. No. 996,444; June 27; Sp. p. 5182; Gaz. vol. 167; p. 908.
Catamaran. M. Phillips. No. 1,009,564; Nov. 21; Sp. p. 4321; Gaz. vol. 172; p. 744.
Catamenial bandage. O. J. Miller-Jones. No. 1,003,487; Sept. 19; Sp. p. 2828; Gaz. vol. 170; p. 517.
Catch. A. E. Waller. No. 993,482; May 30; Sp. p. 5693; Gaz. vol. 166; p. 1042.
Catch or door-check, Combined safety-. J. G. Crosskill. No. 990,114; Apr. 18; Sp. p. 3888; Gaz. vol. 165; p. 672.
Catch, Safety-. E. B. Aiguier. No. 980,856; Jan. 3; Sp. p. 1442; Gaz. vol. 162; p. 232.
Catch, Safety-. W. H. Wilkening. No. 1,009,815; Nov. 28; Sp. p. 4835; Gaz. vol. 172; p. 874.
Catch, Safety-. F. Köller. No. 1,011,066; Dec. 5; Sp. p. 1453; Gaz. vol. 173; p. 230.
Catgut, Manufacture of sterile. F. Kuhn. No. 1,006,854; Oct. 24; Sp. p. 5071; Gaz. vol. 171; p. 894.
Cathode-sheets, Suspension-loop for initial. E. L. Sibley. No. 1,002,462; Sept. 5; Sp. p. 645; Gaz. vol. 170; p. 92.
Cattle-guard. F. J. Dahlberg. No. 993,962; May 30; Sp. p. 6701; Gaz. vol. 166; p. 1206.
Cattle-guard. D. F. Ball. No. 995,943; June 20; Sp. p. 4034; Gaz. vol. 167; p. 702.
Cattle-guard. B. H. Herman. No. 1,001,396; Aug. 22; Sp. p. 4731; Gaz. vol. 169; p. 853.
Cattle-guard. F. Spencer. No. 1,005,347; Oct. 10; Sp. p. 1701; Gaz. vol. 171; p. 304.
Cattle-guard. W. W. Boatwright. No. 1,006,351; Oct. 17; Sp. p. 3931; Gaz. vol. 171; p. 687.
Cattle-guard. I. R. Utterback, W. L. Galbraith, and H. G. Smith. No. 1,008,757; Nov. 14; Sp. p. 2546; Gaz. vol. 172; p. 429.
Cattle-guard. E. A. Jackson. No. 1,010,368; Nov. 28; Sp. p. 5951; Gaz. vol. 172; p. 1058.
Ceiling and floor plate. A. C. Gaynor. No. 989,140; Apr. 11; Sp. p. 1779; Gaz. vol. 165; p. 309.
Ceiling and the like. A. Zeh. No. 1,012,499; Dec. 19; Sp. p. 4664; Gaz. vol. 173; p. 801.
Cellar, Storm-. H. L. Leddy. No. 984,942; Feb. 21; Sp. p. 3632; Gaz. vol. 163; p. 640.
Cellar, Waterproof. J. W. Lane. No. 997,835; July 11; Sp. p. 2639; Gaz. vol. 168; p. 454.
Cellulose compound. W. H. Walker. No. 1,009,116; Nov. 21; Sp. p. 3312; Gaz. vol. 172; p. 586.
Cellulose compounds, Producing dyed-acidylized-. E. Friedemann. No. 994,738; June 13; Sp. p. 1403; Gaz. vol. 167; p. 261.
Cellulose derivatives from viscose, Producing stable soluble. L. Lilienfeld. No. 980,648; Jan. 3; Sp. p. 1011; Gaz. vol. 162; p. 164.
Cellulose-ester composition. C. Ellis. No. 999,490; Aug. 1; Sp. p. 581; Gaz. vol. 169; p. 101.
Cellulose esters in definite forms, Preparing. L. Lederer. No. 999,236; Aug. 1; Sp. p. 85; Gaz. vol. 169; p. 17.
Cellulose films, Continuous manufacture of. E. Brandenberger. No. 981,368; Jan. 10; Sp. p. 2732; Gaz. vol. 162; p. 443.
Cellulose films, Goffered article made from. J. E. Brandenberger. No. 982,467; Jan. 24; Sp. p. 5074; Gaz. vol. 162; p. 876.
Cellulose from fibrous materials, Producing. G. H. Marshall. No. 982,379; Jan. 24; Sp. p. 4872; Gaz. vol. 162; p. 843.
Cellulose, Manufacture of threads from cupro-ammoniacal solutions of. A. Lecoeur and P. Rudolf. No. 980,294; Jan. 3; Sp. p. 214; Gaz. vol. 162; p. 41.
Cellulose, Strengthening. X. Eschalier. No. 995,852; June 20; Sp. p. 3852; Gaz. vol. 167; p. 670.
Cellulose, Treatment of. H. Peters. No. 1,008,489; Nov. 14; Sp. p. 1958; Gaz. vol. 172; p. 335.
Cellulose, Treatment of. H. Peters. No. 1,008,557; Nov. 14; Sp. p. 2099; Gaz. vol. 172; p. 359.
Cellulosic and ligneous materials, Making a fermentable product from. W. P. Cohoe. No. 985,725; Feb. 28; Sp. p. 5381; Gaz. vol. 163; p. 943.
Cellulosic and ligneous materials, Making a glucose-like product from. W. P. Cohoe. No. 985,726; Feb. 28; Sp. p. 5385; Gaz. vol. 163; p. 943.
Cement and block construction. J. M. Crocker and F. Tappan. No. 1,011,753; Dec. 12; Sp. p. 3044; Gaz. vol. 173; p. 509.
Cement and concrete railway-tie. J. G. Monroe. No. 988,803; Apr. 4; Sp. p. 1099; Gaz. vol. 165; p. 175.
Cement and making same. B. Bruhn. No. 983,024; Jan. 31; Sp. p. 6265; Gaz. vol. 162; p. 1090.
Cement and products thereof, Producing. A. C. Spencer. No. 1,012,467; Dec. 19; Sp. p. 4595; Gaz. vol. 173; p. 788.
Cement-applier, Hand. W. F. Lautenschlager. No. 992,885; May 23; Sp. p. 4408; Gaz. vol. 166; p. 809.
Cement-applying mechanism. E. E. C. Packard. No. 996,881; July 4; Sp. p. 583; Gaz. vol. 168; p. 96.
Cement, Bituminous paving-. C. Richardson. No. 981,225; Jan. 10; Sp. p. 2430; Gaz. vol. 162; p. 394.
Cement-block machine. J. A. Ross. No. 1,005,884; Oct. 17; Sp. p. 2885; Gaz. vol. 171; p. 523.
Cement-block-making machine. B. L. Blair. No. 984,531; Feb. 21; Sp. p. 2788; Gaz. vol. 163; p. 498.
Cement-block-molding apparatus. A. Ring. No. 985,063; Feb. 21; Sp. p. 3862; Gaz. vol. 163; p. 682.
Cement blocks, Waterproofing. D. F. Shope. No. 985,709; Feb. 28; Sp. p. 5354; Gaz. vol. 163; p. 938.
Cement-brick machine. C. A. Booher. No. 987,541; Mar. 21; Sp. p. 3737; Gaz. vol. 164; p. 668.
Cement-brick machine. D. B. Smith. No. 991,553; May 9; Sp. p. 1564; Gaz. vol. 166; p. 289.
Cement, Burning Portland. F. L. Woods and M. Boyd. No. 985,313; Feb. 28; Sp. p. 4454; Gaz. vol. 163; p. 801.
Cement, concrete, or similar material, Reinforcing rod or bar for. N. L. Hall. No. 991,439; May 2; Sp. p. 1302; Gaz. vol. 166; p. 217.
Cement from furnace-slag, Manufacture of. W. Lessing. No. 998,358; July 18; Sp. p. 3844; Gaz. vol. 168; p. 683.
Cement-kiln. R. J. Nash. No. 983,563; Feb. 7; Sp. p. 678; Gaz. vol. 163; p. 105.
Cement-kilns, &c., Coal-feeding apparatus for rotary. H. E. Kiefer. No. 993,604; May 30; Sp. p. 5953; Gaz. vol. 166; p. 1084.
Cement-lined pipe and fitting. G. W. Priest. No. 1,005,466; Oct. 10; Sp. p. 1949; Gaz. vol. 171; p. 344.
Cement, Magnesia. R. Eggenhoffner. No. 1,000,386; Aug. 15; Sp. p. 2501; Gaz. vol. 169; p. 468.
Cement, Making. C. Ellis. No. 1,001,582; Aug. 22; Sp. p. 5070; Gaz. vol. 169; p. 913.
Cement, Manufacturing. C. von Forell. No. 982,945; Jan. 31; Sp. p. 6090; Gaz. vol. 162; p. 1064.
Cement, Manufacturing. R. Tornyay-Schosberger. No. 983,521; Feb. 7; Sp. p. 562; Gaz. vol. 163; p. 90.
Cement, Manufacturing. C. Daher. No. 1,004,380; Sept. 26; Sp. p. 4829; Gaz. vol. 170; p. 852.

Cement-mixer. F. Clemens. No. 994,978; June 13; Sp. p. 1950; Gaz. vol. 167; p. 341.
Cement or concrete structures or articles, Making. J. D. Freund. No. 1,003,730; Sept. 19; Sp. p. 3369; Gaz. vol. 170; p. 602.
Cement plaster. J. D. Cady. No. 985,656; Feb. 28; Sp. p. 5201; Gaz. vol. 163; p. 919.
Cement post. H. D. Henion. No. 982,137; Jan. 17; Sp. p. 4359; Gaz. vol. 162; p. 728.
Cement-post machine. P. E. Smith. No. 998,131; July 18; Sp. p. 3331; Gaz. vol. 168; p. 600.
Cement-producing apparatus. C. Ellis. No. 999,492; Aug. 1; Sp. p. 583; Gaz. vol. 169; p. 102.
Cement, reinforced pipe, Solid-joint. C. Poling. No. 984,847; Feb. 21; Sp. p. 3448; Gaz. vol. 163; p. 609.
Cement sink construction. H. H. Jones. No. 990,986; May 2; Sp. p. 337; Gaz. vol. 166; p. 58.
Cement to tape, &c., Machine for applying. J. H. La Bate. No. 999,458; Aug. 1; Sp. p. 520; Gaz. vol. 169; p. 91.
Cement, Treating. R. W. Lesley and H. S. Spackman. No. 988,724; Apr. 4; Sp. p. 940; Gaz. vol. 165; p. 149.
Cement-work tool. R. L. Sohn. No. 985,074; Feb. 21; Sp. p. 3882; Gaz. vol. 163; p. 686.
Cementer, Rotary. H. I. Illingworth. No. 986,062; Mar. 7; Sp. p. 655; Gaz. vol. 164; p. 105.
Cementitious cylindrical articles, Apparatus for manufacturing. S. G. Kennedy. No. 1,009,528; Nov. 21; Sp. p. 4254; Gaz. vol. 172; p. 733.
Cementitious material, Apparatus for curing. A. A. Pauly. No. 1,009,557; Nov. 21; Sp. p. 4309; Gaz. vol. 172; p. 742.
Center-sill construction. C. A. Lindström. No. 990,572; Apr. 25; Sp. p. 4953; Gaz. vol. 165; p. 865.
Centering device. M. H. Oneal. No. 986,205; Mar. 7; Sp. p. 934; Gaz. vol. 164; p. 151.
Centerboard. J. E. Mowbray. No. 995,078; June 13; Sp. p. 2168; Gaz. vol. 167; p. 376.
Centralizing totalizer apparatus, Automatic. E. Poyet. No. 1,008,862; Nov. 14; Sp. p. 2757; Gaz. vol. 172; p. 465.
Centrifugal apparatus. W. J. Gee. No. 1,002,257; Sept. 5; Sp. p. 158; Gaz. vol. 170; p. 20.
Centrifugal bowls, Means for balancing. J. Pohl. No. 989,043; Apr. 11; Sp. p. 1578; Gaz. vol. 165; p. 277.
Centrifugal drier. J. M. White. No. 992,621; May 16; Sp. p. 3853; Gaz. vol. 166; p. 687.
Centrifugal machine. C. R. Reynolds. No. 987,745; Mar. 28; Sp. p. 4197; Gaz. vol. 164; p. 766.
Centrifugal machine. W. H. Lawson. No. 996,776; July 4; Sp. p. 350; Gaz. vol. 168; p. 60.
Centrifugal machine. A. C. Busby and W. H. Hedden. No. 1,000,491; Aug. 15; Sp. p. 2733; Gaz. vol. 169; p. 505.
Centrifugal machine. C. Groat, E. Croasdale, and F. A. Tolhurst. No. 1,005,963; Oct. 17; Sp. p. 3071; Gaz. vol. 171; p. 551.
Centrifugal machine. E. Roberts and A. H. Gibson. No. 1,011,851; Dec. 12; Sp. p. 3265; Gaz. vol. 173; p. 542.
Centrifugal machine, Continuous-acting. A. Grill. No. 1,002,677; Sept. 5; Sp. p. 1093; Gaz. vol. 170; p. 165.
Centrifugal machines, Means for controlling electrically-driven. C. A. Adams. No. 981,601; Jan. 17; Sp. p. 3210; Gaz. vol. 162; p. 545.
Centrifugal machines, Means for supporting and driving single-shaft. E. D. Mackintosh. No. 985,358; Feb. 28; Sp. p. 4546; Gaz. vol. 163; p. 816.
Centrifugal machines, Rotary distributing member for. G. J. Manson. No. 1,010,161; Nov. 28; Sp. p. 5530; Gaz. vol. 172; p. 990.
Centrifugal machines, Sugar-remover for. R. P. Johnson. No. 985,679; Feb. 28; Sp. p. 5249; Gaz. vol. 163; p. 927.
Centrifugal separator. G. E. Sanford, E. W. Kopke, and H. E. Procunier. No. 984,242; Feb. 14; Sp. p. 2153; Gaz. vol. 163; p. 365.
Centrifugal separator. F. H. Fleege. No. 988,084; Mar. 28; Sp. p. 4983; Gaz. vol. 164; p. 884.
Centrifugal separator. G. E. Sanford, E. W. Kopke, and H. E. Procunier. No. 992,809; May 23; Sp. p. 4233; Gaz. vol. 166; p. 781.
Centrifugal separator. J. J. Berrigan. No. 998,949; July 25; Sp. p. 5164; Gaz. vol. 168; p. 922.
Centrifugal separator. W. R. Macklind. No. 1,001,661; Aug. 29; Sp. p. 5251; Gaz. vol. 169; p. 972.
Centrifugal separator. E. R. Bailey. No. 1,006,622; Oct. 24; Sp. p. 4567; Gaz. vol. 171; p. 814.
Centrifugal separator for gases. J. Fetzer. No. 1,004,760; Oct. 3; Sp. p. 462; Gaz. vol. 171; p. 76.
Centrifugal separator for milk and other fluids. P. T. Sundberg. No. 994,485; June 6; Sp. p. 780; Gaz. vol. 167; p. 133.
Centrifugal separator for purifying oils. F. Thelitz. No. 1,002,471; Sept. 5; Sp. p. 659; Gaz. vol. 170; p. 95.
Centrifugal separators, Arresting device for. O. Ohlsson. No. 993,790; May 30; Sp. p. 6374; Gaz. vol. 166; p. 1149.
Centrifugal separators, Center tube for. S. A. Ekehorn. No. 991,707; May 9; Sp. p. 1910; Gaz. vol. 166; p. 344.
Centrifugal separators, Lifter for liner-plates of. A. T. Salenius. No. 999,341; Aug. 1; Sp. p. 283; Gaz. vol. 169; p. 52.
Centrifugal switch. C. B. Hanright. No. 992,870; May 23; Sp. p. 4375; Gaz. vol. 166; p. 803.
Centrifugal switch. C. H. Haddrell. No. 1,011,774; Dec. 12; Sp. p. 3084; Gaz. vol. 173; p. 516.
Cesspool. G. W. Schodde. No. 988,667; Apr. 4; Sp. p. 808; Gaz. vol. 165; p. 130.
Cesspool. C. C. Sofleiss. No. 1,002,089; Aug. 29; Sp. p. 6167; Gaz. vol. 169; p. 1115.
Chaff-separator. C. F. Hupner. No. 1,003,138; Sept. 12; Sp. p. 2098; Gaz. vol. 170; p. 361.
Chafing-shields. E. C. Kuebler. No. 995,687; June 20; Sp. p. 3475; Gaz. vol. 167; p. 612.
Chain. J. M. Dodge. No. 1,004,389; Sept. 26; Sp. p. 4844; Gaz. vol. 170; p. 855.
Chain. J. M. Jones. No. 1,004,575; Oct. 3; Sp. p. 57; Gaz. vol. 171; p. 12.
Chain adjuster, Eyeglass-. E. R. Matters. No. 1,001,665; Aug. 29; Sp. p. 5263; Gaz. vol. 169; p. 974.
Chain, Antiskid-. F. H. Fox. No. 1,010,885; Dec. 5; Sp. p. 1081; Gaz. vol. 173; p. 169.
Chain, Bucket-. E. A. Murray. No. 1,005,282; Oct. 10; Sp. p. 1551; Gaz. vol. 171; p. 280.
Chain carrier. T. C. Merz. No. 993,313; May 23; Sp. p. 5299; Gaz. vol. 166; p. 951.
Chain-clasp. L. M. Peddicord. No. 982,019; Jan. 17; Sp. p. 4134; Gaz. vol. 162; p. 690.
Chain conveyer. T. A. Coleman. No. 988,546; Apr. 4; Sp. p. 543; Gaz. vol. 165; p. 87.
Chain, Conveyer-. T. A. Coleman. No. 995,952; June 20; Sp. p. 4051; Gaz. vol. 167; p. 704.
Chain, Conveyer-. J. T. H. Paul. No. 1,013,052; Dec. 26; Sp. p. 5915; Gaz. vol. 173; p. 1035.
Chain coupling, Drive-. H. S. Pierce. No. 1,013,054; Dec. 26; Sp. p. 5918; Gaz. vol. 173; p. 1036.
Chain, Detachable-link. A. B. Taylor. No. 992,740; May 16; Sp. p. 4077; Gaz. vol. 166; p. 728.
Chain for antiskidding devices, Cross-. F. H. Fox. No. 1,010,884; Dec. 5; Sp. p. 1080; Gaz. vol. 173; p. 169.
Chain, Friction driving-. H. K. Holsman. No. 1,007,569; Oct. 31; Sp. p. 6639; Gaz. vol. 171; p. 1196.
Chain guide for sockets, Pull-. O. E. Kenney. No. 986,991; Mar. 14; Sp. p. 2594; Gaz. vol. 164; p. 448.
Chain guide, Pull-. E. H. Freeman. No. 1,008,320; Nov. 14; Sp. p. 1507; Gaz. vol. 172; p. 276.
Chain, Hitching-. C. H. Gordon. No. 986,973; Mar. 14; Sp. p. 2559; Gaz. vol. 164; p. 443.
Chain-link. H. E. Hayward. No. 982,058; Jan. 17; Sp. p. 4215; Gaz. vol. 162; p. 702.
Chain-link. H. E. Hayward. No. 993,248; May 23; Sp. p. 5176; Gaz. vol. 166; p. 930.
Chain-link. H. E. Hayward. No. 998,509; July 18; Sp. p. 4145; Gaz. vol. 168; p. 734.
Chain-link. J. M. Dodge. No. 999,156; July 25; Sp. p. 5572; Gaz. vol. 168; p. 991.
Chain-link. H. E. Hayward. No. 1,009,510; Nov. 21; Sp. p. 4221; Gaz. vol. 172; p. 726.
Chain-link. H. E. Hayward. No. 1,011,781; Dec. 12; Sp. p. 3098; Gaz. vol. 173; p. 519.
Chain-link-bending machine. E. McCarthy. No. 1,011,829; Dec. 12; Sp. p. 3204; Gaz. vol. 173; p. 535.
Chain link, Conveyer-. P. Erickson. No. 992,176; May 16; Sp. p. 2856; Gaz. vol. 166; p. 532.
Chain link or coupling. C. Bryant. No. 1,000,710; Aug. 15; Sp. p. 3228; Gaz. vol. 169; p. 583.
Chain link, Safety watch-. R. Stanig. No. 997,020; July 4; Sp. p. 916; Gaz. vol. 168; p. 145.
Chain-links. H. E. Hayward. No. 995,137; June 13; Sp. p. 2277; Gaz. vol. 167; p. 394.
Chain-links for bucket dredgers, elevators, and the like. P. M. Dekker. No. 1,003,038; Sept. 12; Sp. p. 1894; Gaz. vol. 170; p. 327.
Chain-links, Manufacturing. H. Howson. No. 993,997; May 30; Sp. p. 6779; Gaz. vol. 166; p. 1218.
Chain-links, Manufacturing. J. M. Dodge. No. 1,008,891; Nov. 14; Sp. p. 2818; Gaz. vol. 172; p. 474.
Chain, Log-. A. X. Miller. No. 994,180; June 6; Sp. p. 159; Gaz. vol. 167; p. 28.
Chain-mail work, Apparatus for making. H. Laborenz. No. 997,453; July 11; Sp. p. 1770; Gaz. vol. 168; p. 321.
Chain-making machine, Weldless-link-. C. A. Lewis. No. 990,996; May 2; Sp. p. 352; Gaz. vol. 166; p. 61.
Chain, Multiplate drive-. F. L. Morse. No. 989,719; Apr. 18; Sp. p. 3053; Gaz. vol. 165; p. 538.
Chain tightener, Drive-. W. E. Donner. No. 1,009,898; Nov. 28; Sp. p. 4989; Gaz. vol. 172; p. 901.
Chain, Watch-. J. J. Conelly. No. 1,003,090; Sept. 12; Sp. p. 2006; Gaz. vol. 170; p. 345.
Chain-wheel, Expanding. W. L. Montague. No. 980,662; Jan. 3; Sp. p. 1060; Gaz. vol. 162; p. 168.
Chain with multiple concentric spirals for raising liquids, Lifting-. H. Bessonnet-Favre. No. 988,301; Apr. 4; Sp. p. 12; Gaz. vol. 165; p. 4.
Chain wrench. A. M. Tilton. No. 996,684; July 4; Sp. p. 171; Gaz. vol. 168; p. 30.
Chains, Lag for conveyer-. J. K. Alston. No. 988,239; Mar. 28; Sp. p. 5267; Gaz. vol. 164; p. 934.
Chains, Machine for automatically manufacturing welded wire. C. L. Graves. No. 987,295; Mar. 21; Sp. p. 3248; Gaz. vol. 164; p. 586.
Chains, Machine for making weldless-link. C. A. Lewis. No. 997,305; July 11; Sp. p. 1492; Gaz. vol. 168; p. 273.

Chains of antiskid devices, Connecting device for cross-. F. H. Fox. No. 1,002,382; Sept. 5; Sp. p. 468; Gaz. vol. 170; p. 66.
Chains, Pivot-pin for. J. M. Dodge. No. 993,969; May 30; Sp. p. 6714; Gaz. vol. 166; p. 1208.
Chains, Production of multiple-link or cable. C. Leibbrand. No. 1,011,973; Dec. 19; Sp. p. 3549; Gaz. vol. 173; p. 620.
Chains, Rivet-removing device for. F. B. Widmayer and V. E. Davis. No. 1,000,867; Aug. 15; Sp. p. 3559; Gaz. vol. 169; p. 639.
Chainless hand-brake, Adjustable. F. F. Ray. No. 986,499; Mar. 14; Sp. p. 1583; Gaz. vol. 164; p. 282.
Chair: *See* Adjustable chair; Advertising-chair; Barber-chair; Barber's chair; Coin-controlled chair; Collapsible chair; Convertible chair; Dental chair; Disappearing chair; Foldable chair; Folding chair; Infant's chair; Interconvertible chair; Lawn-chair; Nursery-chair; Opera-chair; Opera and like chair; Rail-chair; Rail-clamping chair; Rail-joint chair; Railway-chair; Rocking-chair; Window-chair.
Chair. B. A. Ruggles. No. 984,709; Feb. 21; Sp. p. 3175; Gaz. vol. 163; p. 562.
Chair. N. Alexander. No. 997,108; July 4; Sp. p. 1082; Gaz. vol. 168; p. 175.
Chair. E. L. Kunz. No. 998,909; July 25; Sp. p. 5063; Gaz. vol. 168; p. 908.
Chair. E. O. Beers. No. 1,001,240; Aug. 22; Sp. p. 4393; Gaz. vol. 169; p. 799.
Chair. E. G. Sebring. No. 1,001,312; Aug. 22; Sp. p. 4555; Gaz. vol. 169; p. 824.
Chair. W. D. Schmits. No. 1,004,206; Sept. 26; Sp. p. 4484; Gaz. vol. 170; p. 794.
Chair. W. D. Schmits. No. 1,004,207; Sept. 26; Sp. p. 4484; Gaz. vol. 170; p. 794.
Chair. W. D. Schmits and E. Muuss. No. 1,005,330; Oct. 10; Sp. p. 1663; Gaz. vol. 171; p. 297.
Chair. E. H. Smith. No. 1,008,744; Nov. 14; Sp. p. 2522; Gaz. vol. 172; p. 425.
Chair. J. M. Bainer. No. 1,011,713; Dec. 12; Sp. p. 2959; Gaz. vol. 173; p. 495.
Chair and swing, Combined. J. C. and C. L. Shuttleworth. No. 1,010,812; Dec. 5; Sp. p. 911; Gaz. vol. 173; p. 143.
Chair attachment. C. W. Emmons. No. 1,003,245; Sept. 12; Sp. p. 2338; Gaz. vol. 170; p. 401.
Chair attachment, Barber's-. E. F. Levesque. No. 990,149; Apr. 18; Sp. p. 3964; Gaz. vol. 165; p. 684.
Chair attachment, Infant's-high-. O. Hamry. No. 1,003,899; Sept. 19; Sp. p. 3698; Gaz. vol. 170; p. 658.
Chair attachment, Rocking-. R. C. Palm. No. 1,011,361; Dec. 12; Sp. p. 2178; Gaz. vol. 173; p. 371.
Chair-back. W. H. Carpenter. No. 1,011,026; Dec. 5; Sp. p. 1367; Gaz. vol. 173; p. 218.
Chair-base. A. H. Ordway. No. 1,007,006; Oct. 24; Sp. p. 5393; Gaz. vol. 171; p. 945.
Chair-bottom-turning machine. F. Buryanek. No. 988,756; Apr. 4; Sp. p. 1006; Gaz. vol. 165; p. 159.
Chair-brace. A. B. Russell. No. 991,648; May 9; Sp. p. 1767; Gaz. vol. 166; p. 323.
Chair desk attachment. H. A. Knoke. No. 994,410; June 6; Sp. p. 645; Gaz. vol. 167; p. 110.
Chair fan attachment. A. Rosenson. No. 981,475; Jan. 10; Sp. p. 2961; Gaz. vol. 162; p. 481.
Chair fan attachment. A. N. Anderson. No. 987,684; Mar. 28; Sp. p. 4067; Gaz. vol. 164; p. 747.
Chair fan attachment, Rocking-. P. Harbula. No. 983,706; Feb. 7; Sp. p. 968; Gaz. vol. 163; p. 154.
Chair fan attachment, Rocking-. D. Lasson and A. Gorovitz. No. 998,783; July 25; Sp. p. 4774; Gaz. vol. 168; p. 863.
Chair head-rest. J. R. Etter. No. 1,008,456; Nov. 14; Sp. p. 1894; Gaz. vol. 172; p. 324.
Chair head-rest, Barber's-. W. J. Cotter. No. 1,004,630; Oct. 3; Sp. p. 176; Gaz. vol. 171; p. 31.
Chair-leg supporter. W. M. Craig. No. 1,005,695; Oct. 10; Sp. p. 2479; Gaz. vol. 171; p. 425.
Chair or sofa with interchangeable seat. J. E. Bezold. No. 997,737; July 11; Sp. p. 2409; Gaz. vol. 168; p. 420.
Chair, platform, and receptacle, Combined. N. L. Carney. No. 986,686; Mar. 14; Sp. p. 1970; Gaz. vol. 164; p. 347.
Chair steering mechanism, Roller-push-. C. E. Marshall. No. 998,706; July 25; Sp. p. 4584; Gaz. vol. 168; p. 835.
Chairs, Adjustable and disappearing foot-rest for Morris. W. Simpson. No. 988,600; Apr. 4; Sp. p. 670; Gaz. vol. 165; p. 107.
Chairs and cradles, Fan attachment for rocking-. F. W. Becker. No. 984,462; Feb. 14; Sp. p. 2598; Gaz. vol. 163; p. 439.
Chairs, Device for connecting hats and sticks to. E. Ambrock. No. 993,633; May 30; Sp. p. 6017; Gaz. vol. 166; p. 1094.
Chairs, Reclining, mechanism for barbers'. E. E. Koken. No. 987,580; Mar. 21; Sp. p. 3823; Gaz. vol. 164; p. 681.
Chalice. C. J. Ljunggren. No. 994,683; June 6; Sp. p. 1232; Gaz. vol. 167; p. 201.
Chalk and other marking substances, Adjustable holder for. E. C. Bale. No. 1,012,503; Dec. 19; Sp. p. 4669; Gaz. vol. 173; p. 801.
Chalk-holder. F. L. Dethloff. No. 983,215; Jan. 31; Sp. p. 6630; Gaz. vol. 162; p. 1153.
Chalk-line holder. G. Hallock. No. 982,000; Jan. 17; Sp. p. 4099; Gaz. vol. 162; p. 683.
Chalk-line holder. C. P. Hoover. No. 986,171; Mar. 7; Sp. p. 862; Gaz. vol. 164; p. 139.
Chalk-line holder. J. E. Giffin. No. 997,803; July 11; Sp. p. 2584; Gaz. vol. 168; p. 443.
Chalk-line holder. G. Laut. No. 1,004,443; Sept. 26; Sp. p. 4962; Gaz. vol. 170; p. 873.
Chalk-line reel. W. H. Fuerst. No. 999,641; Aug. 1; Sp. p. 873; Gaz. vol. 169; p. 152.
Chandelier. S. G. Camp. No. 998,323; July 18; Sp. p. 3774; Gaz. vol. 168; p. 671.
Chandelier. C. A. Luther. No. 1,007,881; Nov. 7; Sp. p. 534; Gaz. vol. 172; p. 81.
Chandelier, Collapsible. G. M. Beardslee. No. 1,012,234; Dec. 19; Sp. p. 4140; Gaz. vol. 173; p. 710.
Chandelier-crown. W. Lumley. No. 987,309; Mar. 21; Sp. p. 3287; Gaz. vol. 164; p. 590.
Chandelier for gas or electric lighting. C. A. Luther. No. 997,926; July 11; Sp. p. 2839; Gaz. vol. 168; p. 486.
Chandelier smoke-bell bracket. W. Barlow. No. 1,002,799; Sept. 5; Sp. p. 1363; Gaz. vol. 170; p. 207.
Chandeliers, Shock-absorber for. H. C. Kraushaar. No. 1,006,232; Oct. 17; Sp. p. 3667; Gaz. vol. 171; p. 646.
Change-mat. J. I. Morehead. No. 986,936; Mar. 14; Sp. p. 2494; Gaz. vol. 164; p. 432.
Change-maker. E. A. Wickline. No. 1,007,167; Oct. 31; Sp. p. 5772; Gaz. vol. 171; p. 1056.
Change-making machine. J. R. Conrad. No. 1,002,039; Aug. 29; Sp. p. 6082; Gaz. vol. 169; p. 1099.
Channel-cementing machine. C. P. Stanbon. No. 1,004,098; Sept. 26; Sp. p. 4245; Gaz. vol. 170; p. 756.
Channel-cementing machine. C. P. Stanbon. No. 1,004,705; Oct. 3; Sp. p. 345; Gaz. vol. 171; p. 57.
Channel-flap-laying machine. J. B. Hadaway. No. 981,190; Jan. 10; Sp. p. 2307; Gaz. vol. 162; p. 381.
Channels, Raking mechanism for cleaning the gratings of water-. B. J. Sloan. No. 986,231; Mar. 7; Sp. p. 978; Gaz. vol. 164; p. 159.
Channeling-machine. W. C. Meyer. No. 984,773; Feb. 21; Sp. p. 3315; Gaz. vol. 163; p. 585.
Channeling-machine. H. W. Winter. No. 1,002,892; Sept. 12; Sp. p. 1604; Gaz. vol. 170; p. 278.
Channeling-machine. H. H. Mercer. No. 1,011,221; Dec. 12; Sp. p. 1849; Gaz. vol. 173; p. 320.
Charcoal-bagging machine. J. A. Manson. No. 993,696; May 30; Sp. p. 6179; Gaz. vol. 166; p. 1117.
Charcoal-drying apparatus. R. S. Kent. No. 984,931; Feb. 21; Sp. p. 3607; Gaz. vol. 163; p. 636.
Charging apparatus. W. A. Turbayne. No. 991,113; May 2; Sp. p. 605; Gaz. vol. 166; p. 103.
Charging device. C. W. Lummis. No. 984,949; Feb. 21; Sp. p. 3647; Gaz. vol. 163; p. 643.
Charging-tool. C. W. Thomas. No. 989,444; Apr. 11; Sp. p. 2437; Gaz. vol. 165; p. 412.
Charging-tool. C. W. Thomas and F. B. Riley. No. 989,445; Apr. 11; Sp. p. 2438; Gaz. vol. 165; p. 412.
Chart and square, Combined tailor's drafting. P. Carbonara. No. 1,011,915; Dec. 19; Sp. p. 3417; Gaz. vol. 173; p. 599.
Chaser-dies. L. F. Hart. No. 988,467; Apr. 4; Sp. p. 380; Gaz. vol. 165; p. 61.
Check-bit. C. H. Burch. No. 986,044; Mar. 7; Sp. p. 618; Gaz. vol. 164; p. 99.
Check-controlled apparatus. E. S. Church. No. 1,011,320; Dec. 12; Sp. p. 2095; Gaz. vol. 173; p. 358.
Check-controlled mechanism. E. T. Turney. No. 988,410; Apr. 4; Sp. p. 262; Gaz. vol. 165; p. 42.
Check-distributing device. A. Casaretti. No. 997,902; July 11; Sp. p. 2792; Gaz. vol. 168; p. 477.
Check form, Bank-. J. B. Walkley. No. 998,817; July 25; Sp. p. 4842; Gaz. vol. 168; p. 874.
Check holder, Restaurant-pay-. F. Thum. No. 988,047; Mar. 28; Sp. p. 4907; Gaz. vol. 164; p. 871.
Check-hook. J. E. McDade. No. 997,462; July 11; Sp. p. 1788; Gaz. vol. 168; p. 324.
Check-lock. W. J. Connell. No. 1,004,372; Sept. 26; Sp. p. 4808; Gaz. vol. 170; p. 849.
Check-marking apparatus. C. H. Marston and H. H. Cummings. (Reissue.) No. 13,279; Aug. 8; Sp. p. 2418; Gaz. vol. 169; p. 425.
Check-protector. A. E. Ayer. No. 982,782; Jan. 31; Sp. p. 5717; Gaz. vol. 162; p. 1008.
Check-protector. C. E. Holland. No. 998,177; July 18; Sp. p. 3413; Gaz. vol. 168; p. 616.
Check-protector. C. H. Sampson. No. 1,010,180; Nov. 28; Sp. p. 5563; Gaz. vol. 172; p. 996.
Check protector, Bank-. J. W. Dennington. No. 1,012,608; Dec. 26; Sp. p. 4894; Gaz. vol. 173; p. 881.
Check-row wire. C. Van Natta. No. 989,452; Apr. 11; Sp. p. 2447; Gaz. vol. 165; p. 414.
Check, Self-protecting. A. J. Farmer. No. 998,332; July 18; Sp. p. 3791; Gaz. vol. 168; p. 674.
Checker, Automatic. E. B. Rodman. No. 1,003,295; Sept. 12; Sp. p. 2436; Gaz. vol. 170; p. 419.
Checking and unchecking device. J. A. Burton and B. A. Blakemore. No. 1,011,912; Dec. 19; Sp. p. 3412; Gaz. vol. 173; p. 598.

Checking device. F. Gallagher. No. 1,006,203; Oct. 17; Sp. p. 3610; Gaz. vol. 171; p. 636.
Checkrein attachment. H. G. Weatherill. No. 981,505; Jan. 10; Sp. p. 3007; Gaz. vol. 162; p. 490.
Checkrein-holder. F. A. Matthews. No. 984,580; Feb. 21; Sp. p. 2885; Gaz. vol. 163; p. 514.
Cheese-case. G. H. Burlingame. No. 1,011,112; Dec. 5; Sp. p. 1568; Gaz. vol. 173; p. 248.
Cheese-cutter. I. E. Lee. No. 983,501; Feb. 7; Sp. p. 522; Gaz. vol. 163; p. 84.
Cheese-handling apparatus. T. Christoffel. No. 981,381; Jan. 10; Sp. p. 2756; Gaz. vol. 162; p. 447.
Chemical-engine. J. A. Thomas. No. 983,006; Jan. 31; Sp. p. 6217; Gaz. vol. 162; p. 1083.
Chemical-engine. J. A. Thomas. (Reissue.) No. 13,288; Aug. 29; Sp. p. 6411; Gaz. vol. 169; p. 1156.
Chemical feeder and saturator. J. C. W. Greth. No. 996,923; July 4; Sp. p. 670; Gaz. vol. 168; p. 110.
Cherries, Device for facing ripe. H. G. Stelling. No. 990,403; Apr. 25; Sp. p. 4568; Gaz. vol. 165; p. 806.
Chest: *See* Sectional chest.
Chiffonniers, &c., Finishing rail edges on. J. W. Newmaker. No. 993,541; May 30; Sp. p. 5817; Gaz. vol. 166; p. 1062.
Child-carrier. M. E. Macfarlane. No. 982,376; Jan. 24; Sp. p. 4866; Gaz. vol. 162; p. 842.
Chilian mill. A. J. McCone and R. F. Roy. No. 984,584; Feb. 21; Sp. p. 2897; Gaz. vol. 163; p. 515.
Chilian mill. P. E. Van Saun. No. 985,305; Feb. 28; Sp. p. 4444; Gaz. vol. 163; p. 799.
Chilian mill. A. J. McCone. No. 1,008,046; Nov. 7; Sp. p. 860; Gaz. vol. 172; p. 138.
Chilled pass-rolls, Apparatus for forming. A. I. Crook. No. 990,710; Apr. 25; Sp. p. 5272; Gaz. vol. 165; p. 910.
Chime. H. B. Keller. No. 1,012,560; Dec. 19; Sp. p. 4786; Gaz. vol. 173; p. 822.
Chiming mechanism. G. A. Wlost. No. 1,002,620; Sept. 5; Sp. p. 990; Gaz. vol. 170; p. 147.
Chimney. H. Wislicenus. No. 988,920; Apr. 4; Sp. p. 1315; Gaz. vol. 165; p. 211.
Chimney. F. M. Stiles. No. 992,286; May 16; Sp. p. 3124; Gaz. vol. 166; p. 569.
Chimney-cowl. J. T. Powell. No. 1,010,799; Dec. 5; Sp. p. 888; Gaz. vol. 173; p. 139.
Chimney-cowl and ventilator. F. Riemer. No. 1,001,166; Aug. 22; Sp. p. 4233; Gaz. vol. 169; p. 774.
Chimney-holder. T. M. Elkins. No. 986,149; Mar. 7; Sp. p. 813; Gaz. vol. 164; p. 132.
Chimney-top. F. L. J. Boettcher. No. 991,941; May 9; Sp. p. 2375; Gaz. vol. 166; p. 422.
Chimney-top mold. N. L. Reid. No. 1,002,314; Sept. 5; Sp. p. 293; Gaz. vol. 170; p. 41.
Chin-support. A. F. Hammond. No. 1,000,907; Aug. 15; Sp. p. 3633; Gaz. vol. 169; p. 653.
Chin-support. W. R. Hill. No. 1,003,137; Sept. 12; Sp. p. 2097; Gaz. vol. 170; p. 361.
Chip-breaker. J. F. Wolvin. No. 984,408; Feb. 14; Sp. p. 2486; Gaz. vol. 163; p. 421.
Chip-remover, Sanitary vacuum. L. S. Irgens. No. 988,345; Apr. 4; Sp. p. 112; Gaz. vol. 165; p. 21.
Chisel and gage, Butt-. D. B. Rounds. No. 1,007,607; Oct. 31; Sp. p. 6718; Gaz. vol. 171; p. 1209.
Chock. A. McNaughton. No. 999,828; Aug. 8; Sp. p. 1250; Gaz. vol. 169; p. 245.
Chock, Adjustable. C. E. Berry. No. 1,011,726; Dec. 12; Sp. p. 2995; Gaz. vol. 173; p. 499.
Chocolate, biscuits, sugar, and the like, Mold for. M. Reiche. No. 986,500; Mar. 14; Sp. p. 1584; Gaz. vol. 164; p. 282.
Chocolate, Preparing emulsified. S. T. Achor. No. 982,779; Jan. 31; Sp. p. 5706; Gaz. vol. 162; p. 1007.
Chocolate product, Emulsified. S. T. Achor. No. 983,014; Jan. 31; Sp. p. 6244; Gaz. vol. 162; p. 1086.
Choker-hook. L. S. Denison. No. 992,759; May 23; Sp. p. 4128; Gaz. vol. 166; p. 764.
Chopper: *See* Cotton-chopper; Food-chopper; Plant-chopper; Stalk-chopper.
Chopper. E. L. Zahn. No. 983,969; Feb. 14; Sp. p. 1549; Gaz. vol. 163; p. 273.
Chopper and disintegrator. M. Marrone. No. 995,545; June 20; Sp. p. 3155; Gaz. vol. 167; p. 561.
Chord-indicator. A. J. Hadaway and F. H. Boyer. No. 998,612; July 25; Sp. p. 4378; Gaz. vol. 168; p. 802.
Christmas tree and Ferris wheel, Revolving. C. Pflasterer. No. 985,545; Feb. 28; Sp. p. 4985; Gaz. vol. 163; p. 882.
Christmas tree, Artificial. M. C. Crook. No. 994,248; June 6; Sp. p. 303; Gaz. vol. 167; p. 52.
Christmas-tree holder. A. Schwaderer. No. 1,005,750; Oct. 10; Sp. p. 2580; Gaz. vol. 171; p. 444.
Christmas-tree stand. W. Poppendieck. No. 982,866; Jan. 31; Sp. p. 5913; Gaz. vol. 162; p. 1038.
Chronograph. T. T. Fitch. No. 981,989; Jan. 17; Sp. p. 4070; Gaz. vol. 162; p. 679.
Chuck. J. A. Jarvis. No. 981,566; Jan. 10; Sp. p. 3135; Gaz. vol. 162; p. 511.
Chuck. C. L. Goodrich. No. 984,809; Feb. 21; Sp. p. 3381; Gaz. vol. 163; p. 596.
Chuck. A. F. Schade. No. 986,647; Mar. 14; Sp. p. 1895; Gaz. vol. 164; p. 335.
Chuck. E. A. Clark. No. 986,689; Mar. 14; Sp. p. 1978; Gaz. vol. 164; p. 348.
Chuck. A. Niedhammer. No. 988,376; Apr. 4; Sp. p. 193; Gaz. vol. 165; p. 31.
Chuck. H. J. Kimman. No. 993,382; May 30; Sp. p. 5474; Gaz. vol. 166; p. 1008.
Chuck. G. W. Horrocks and C. W. Millar. No. 993,829; May 30; Sp. p. 6459; Gaz. vol. 166; p. 1162.
Chuck. S. E. Horton. No. 995,006; June 13; Sp. p. 2007; Gaz. vol. 167; p. 352.
Chuck. V. J. Wahlstrom. No. 996,953; July 4; Sp. p. 739; Gaz. vol. 168; p. 121.
Chuck. V. J. Wahlstrom. No. 996,954; July 4; Sp. p. 740; Gaz. vol. 168; p. 121.
Chuck. V. J. Wahlstrom. No. 996,955; July 4; Sp. p. 742; Gaz. vol. 168; p. 121.
Chuck. O. Otto. No. 999,248; Aug. 1; Sp. p. 113; Gaz. vol. 169; p. 21.
Chuck. A. Peterson and R. J. O'Neill. No. 1,003,369; Sept. 12; Sp. p. 2583; Gaz. vol. 170; p. 444.
Chuck. W. L. Miller. No. 1,007,132; Oct. 31; Sp. p. 5691; Gaz. vol. 171; p. 1044.
Chuck. E. C. Peck. No. 1,008,057; Nov. 7; Sp. p. 885; Gaz. vol. 172; p. 142.
Chuck. J. R. Saylor. No. 1,008,926; Nov. 14; Sp. p. 2885; Gaz. vol. 172; p. 484.
Chuck. A. W. Martin. No. 1,010,162; Nov. 28; Sp. p. 5532; Gaz. vol. 172; p. 990.
Chuck. S. T. Lewis. No. 1,011,975; Dec. 19; Sp. p. 3552; Gaz. vol. 173; p. 620.
Chuck. C. Sjostrand. No. 1,012,731; Dec. 26; Sp. p. 5170; Gaz. vol. 173; p. 926.
Chuck, Bit-brace. A. F. Schade. No. 995,808; June 20; Sp. p. 3756; Gaz. vol. 167; p. 655.
Chuck-block. H. Roos. No. 982,533; Jan. 24; Sp. p. 5208; Gaz. vol. 162; p. 898.
Chuck, Collet-. C. T. Kadow. No. 1,007,786; Nov. 7; Sp. p. 311; Gaz. vol. 172; p. 48.
Chuck, Core-. F. W. Kremer. No. 1,008,652; Nov. 14; Sp. p. 2331; Gaz. vol. 172; p. 393.
Chuck, Drill-. J. A. Walker. No. 989,215; Apr. 11; Sp. p. 1941; Gaz. vol. 165; p. 336.
Chuck, Drill-. L. S. Whitehead. No. 990,087; Apr. 18; Sp. p. 3831; Gaz. vol. 165; p. 663.
Chuck, Drill-. F. F. Hepler. No. 990,812; Apr. 25; Sp. p. 5488; Gaz. vol. 165; p. 945.
Chuck for boring and turning mills, Automatic. L. H. Vold. No. 981,724; Jan. 17; Sp. p. 3456; Gaz. vol. 162; p. 586.
Chuck for paper-rolls. C. W. Morden. No. 1,009,984; Nov. 28; Sp. p. 5161; Gaz. vol. 172; p. 929.
Chuck for polishing devices, Reinforcing extension-. J. D. Coney. No. 987,959; Mar. 28; Sp. p. 4718; Gaz. vol. 164; p. 842.
Chuck for stoneworking-machines, Drill-steel. C. C. Hansen. No. 1,009,302; Nov. 21; Sp. p. 3747; Gaz. vol. 172; p. 653.
Chuck for stoneworking-machines, Drill-steel. C. C. Hansen. No. 1,009,303; Nov. 21; Sp. p. 3748; Gaz. vol. 172; p. 653.
Chuck, Indexing-. E. J. McClellan. No. 983,918; Feb. 14; Sp. p. 1453; Gaz. vol. 163; p. 256.
Chuck-jaw. J. O. Dusenbery. No. 994,911; June 13; Sp. p. 1817; Gaz. vol. 167; p. 319.
Chuck-jaw. C. E. Mitchell. No. 1,011,227; Dec. 12; Sp. p. 1866; Gaz. vol. 173; p. 322.
Chuck-jaws. O. R. Altwein. No. 982,559; Jan. 24; Sp. p. 5253; Gaz. vol. 162; p. 906.
Chuck, Magnetic. B. M. W. Hanson. No. 1,003,900; Sept. 19; Sp. p. 3700; Gaz. vol. 170; p. 659.
Chuck, Mechanical opening and closing spring-. A. Muehlmatt. No. 985,536; Feb. 28; Sp. p. 4966; Gaz. vol. 163; p. 879.
Chuck or spider, Adjustable. H. J. Hoyt. No. 1,008,544; Nov. 14; Sp. p. 2072; Gaz. vol. 172; p. 354.
Chuck, Safety-. W. L. Procunier. No. 1,002,310; Sept. 5; Sp. p. 284; Gaz. vol. 170; p. 39.
Chuck, Screw-. I. H. Gordon. No. 1,004,415; Sept. 26; Sp. p. 4897; Gaz. vol. 170; p. 863.
Chuck, Tapping-. G. Durrenberger. No. 1,010,743; Dec. 5; Sp. p. 772; Gaz. vol. 173; p. 121.
Chuck, Tool-. J. H. McLaughlin. No. 992,572; May 16; Sp. p. 3747; Gaz. vol. 166; p. 670.
Chuck, Universal. G. O. Gridley. No. 992,957; May 23; Sp. p. 4574; Gaz. vol. 166; p. 835.
Chucks, Certain kind of spiral. G. B. Taylor. No. 990,172; Apr. 18; Sp. p. 4013; Gaz. vol. 165; p. 691.
Churn. C. Osner. No. 980,827; Jan. 3; Sp. p. 1391; Gaz. vol. 162; p. 223.
Churn. W. J. Hamblin. No. 981,642; Jan. 17; Sp. p. 3287; Gaz. vol. 162; p. 558.
Churn. O. G. Miltz. No. 982,156; Jan. 17; Sp. p. 4391; Gaz. vol. 162; p. 735.
Churn. W. G. Schröder. No. 984,395; Feb. 14; Sp. p. 2465; Gaz. vol. 163; p. 417.
Churn. W. F. Templeton. No. 987,773; Mar. 28; Sp. p. 4258; Gaz. vol. 164; p. 776.
Churn. J. R. Gilda. No. 989,776; Apr. 18; Sp. p. 3181; Gaz. vol. 165; p. 558.
Churn. J. Jeffris. No. 989,783; Apr. 18; Sp. p. 3197; Gaz. vol. 165; p. 561.
Churn. C. Morrison. No. 990,896; May 2; Sp. p. 145; Gaz. vol. 166; p. 27.

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Churn. H. J. Warren. No. 992,304; May 16; Sp. p. 3170; Gaz. vol. 166; p. 576.
Churn. J. T. Walters. No. 993,130; May 23; Sp. p. 4940; Gaz. vol. 166; p. 894.
Churn. J. R. Gilda. No. 993,675; May 30; Sp. p. 6133; Gaz. vol. 166; p. 1109.
Churn. V. S. Klick. No. 994,469; June 6; Sp. p. 745; Gaz. vol. 167; p. 128.
Churn. J. W. Zook and C. G. Krause. No. 994,967; June 13; Sp. p. 1927; Gaz. vol. 167; p. 338.
Churn. C. Smith. No. 995,101; June 13; Sp. p. 2205; Gaz. vol. 167; p. 383.
Churn. C. A. McCann. No. 998,023; July 18; Sp. p. 3082; Gaz. vol. 168; p. 562.
Churn. A. G. Hunter. No. 1,001,851; Aug. 29; Sp. p. 5668; Gaz. vol. 169; p. 1037.
Churn. C. S. Waybright. No. 1,002,345; Sept. 5; Sp. p. 388; Gaz. vol. 170; p. 55.
Churn. N. J. Johnson and R. L. Stalans. No. 1,003,910; Sept. 19; Sp. p. 3716; Gaz. vol. 170; p. 662.
Churn. R. D. Simpson. No. 1,004,305; Sept. 26; Sp. p. 4671; Gaz. vol. 170; p. 827.
Churn. J. W. Roop. No. 1,004,908; Oct. 3; Sp. p. 795; Gaz. vol. 171; p. 127.
Churn. H. L. Edwards and W. A. Perkins. No. 1,005,421; Oct. 10; Sp. p. 1854; Gaz. vol. 171; p. 328.
Churn. W. B. Woodruff. No. 1,007,169; Oct. 31; Sp. p. 5778; Gaz. vol. 171; p. 1057.
Churn. G. T. Cochran. No. 1,008,241; Nov. 7; Sp. p. 1281; Gaz. vol. 172; p. 209.
Churn. W. Sanders. No. 1,012,446; Dec. 19; Sp. p. 4560; Gaz. vol. 173; p. 781.
Churn, Aerating-. T. S. Leese. No. 984,144; Feb. 14; Sp. p. 1924; Gaz. vol. 163; p. 331.
Churn and butter-worker, Combined. R. B. Disbrow. No. 981,394; Jan. 10; Sp. p. 2779; Gaz. vol. 162; p. 452.
Churn and butter-worker, Combined. D. W. Payne. No. 991,639; May 9; Sp. p. 1746; Gaz. vol. 166; p. 320.
Churn and ice-cream freezer, Combined. J. Steinberg. No. 984,309; Feb. 14; Sp. p. 2302; Gaz. vol. 163; p. 390.
Churn and operating mechanism. E. A. Biggs. No. 1,003,395; Sept. 12; Sp. p. 2631; Gaz. vol. 170; p. 452.
Churn-dasher. H. C. Gross. No. 990,546; Apr. 25; Sp. p. 4908; Gaz. vol. 165; p. 856.
Churn-dasher. J. P. Tisdale. No. 994,891; June 13; Sp. p. 1772; Gaz. vol. 167; p. 312.
Churn-dasher. L. O. Cartwright. No. 1,011,883; Dec. 12; Sp. p. 3325; Gaz. vol. 173; p. 553.
Churn-dasher. L. A. Sandoe. No. 1,012,448; Dec. 19; Sp. p. 4562; Gaz. vol. 173; p. 781.
Churn-motor. J. F. Murdock. No. 1,010,299; Nov. 28; Sp. p. 5818; Gaz. vol. 172; p. 1036.
Churn-operating mechanism. A. H. Wiley, D. W. and M. W. Lathem. No. 984,056; Feb. 14; Sp. p. 1758; Gaz. vol. 163; p. 302.
Churns, Cover and strainer retaining device for. J. L. Mandeville. No. 988,796; Apr. 4; Sp. p. 1086; Gaz. vol. 165; p. 173.
Churning or mixing apparatus. H. S. Brown. No. 993,821; May 30; Sp. p. 6440; Gaz. vol. 166; p. 1160.
Chute. E. Roenius. No. 1,002,319; Sept. 5; Sp. p. 305; Gaz. vol. 170; p. 43.
Chute. J. Clark. No. 1,005,939: Oct. 17; Sp. p. 3017; Gaz. vol. 171; p. 543.
Chute. C. S. Farrer. No. 1,007,653; Oct. 31; Sp. p. 6814; Gaz. vol. 171; p. 1225.
Chute and screener, Combined. H. W. Sanner. No. 990,600; Apr. 25; Sp. p. 5018; Gaz. vol. 165; p. 874.
Chute, Battery-. F. Lacroix. No. 1,004,282; Sept. 26; Sp. p. 4628; Gaz. vol. 170; p. 818.
Chute, Coal-. C. G. Wallace. No. 1,001,713; Aug. 29; Sp. p. 5370; Gaz. vol. 169; p. 990.
Chute, Combination dipping and loading. C. E. Townsend. No. 981,330; Jan. 10; Sp. p. 2640; Gaz. vol. 162; p. 430.
Chute, Conveying-. G. D. Curtis. No. 997,276; July 11; Sp. p. 1429; Gaz. vol. 168; p. 263.
Chute, Feed-. T. W. Jenkins. No. 982,725; Jan. 24; Sp. p. 5582; Gaz. vol. 162; p. 960.
Chute for storage-bins and the like. W. C. Lawson. No. 984,574; Feb. 21; Sp. p. 2876; Gaz. vol. 163; p. 512.
Chute, Fruit-. J. B. St. Helens. No. 1,011,261; Dec. 12; Sp. p. 1944; Gaz. vol. 173; p. 335.
Chute, Wagon-. J. G. Smith. No. 1,010,194; Nov. 28; Sp. p. 5593; Gaz. vol. 172; p. 1002.
Chutes, Automatic regulator for coal-. W. N. White. No. 1,008,684; Nov. 14; Sp. p. 2394; Gaz. vol. 172; p. 404.
Cider-mill presser. R. W. Brooks. No. 1,002,206; Aug. 29; Sp. p. 6404; Gaz. vol. 169; p. 1154.
Cider-press. N. M. Patton. No. 995,283; June 13; Sp. p. 2552; Gaz. vol. 167; p. 442.
Cigar and cigarette holder. J. R. Perry. No. 987,823; Mar. 28; Sp. p. 4361; Gaz. vol. 164; p. 794.
Cigar and cigarette tube or holder. R. C. Acutt. No. 1,001,725; Aug. 29; Sp. p. 5390; Gaz. vol. 169; p. 994.
Cigar-ash holder. C. F. Hoofer. No. 1,006,218; Oct. 17; Sp. p. 3644; Gaz. vol. 171; p. 641.
Cigar-banding machine. E. P. Sheldon. No. 981,017; Jan. 10; Sp. p. 1934; Gaz. vol. 162; p. 320.
Cigar-box clip. A. T. Holder. No. 1,009,067; Nov. 21; Sp. p. 3216; Gaz. vol. 172; p. 570.
Cigar-box support. D. Jennings. No. 996,649; July 4; Sp. p. 113; Gaz. vol. 168; p. 20.
Cigar-bunch shaping and holding device. A. Gordon. No. 996,078; June 27; Sp. p. 4313; Gaz. vol. 167; p. 782.
Cigar-bunching machine. N. Du Brul. No. 1,002,655; Sept. 5; Sp. p. 1049; Gaz. vol. 170; p. 157.
Cigar-bunching machine. J. F. Scaife and F. J. Huetger. No. 1,006,685; Oct. 24; Sp. p. 4687; Gaz. vol. 171; p. 835.
Cigar-bunching machine. J. F. Scaife and F. J. Huetger. No. 1,011,252; Dec. 12; Sp. p. 1925; Gaz. vol. 173; p. 332.
Cigar-case. C. U. F. West. No. 992,310; May 16; Sp. p. 3186; Gaz. vol. 166; p. 579.
Cigar-case. C. L'Enfant. No. 1,000,025; Aug. 8; Sp. p. 1669; Gaz. vol. 169; p. 313.
Cigar-case. J. McGarrity. No. 1,007,368; Oct. 31; Sp. p. 6190; Gaz. vol. 171; p. 1128.
Cigar-case. A. D. Goffin. No. 1,009,238; Nov. 21; Sp. p. 3606; Gaz. vol. 172; p. 629.
Cigar-cutter. E. S. Smith. No. 1,010,815; Dec. 5; Sp. p. 919; Gaz. vol. 173; p. 144.
Cigar-cutter. K. Stenman. No. 1,011,517; Dec. 12; Sp. p. 2510; Gaz. vol. 173; p. 427.
Cigar cutter, lighter, and advertising device, Combined. J. F. Davis and P. Lestrade. No. 995,328; June 13; Sp. p. 2653; Gaz. vol. 167; p. 456.
Cigar-holder. W. V. Smiley. No. 986,950; Mar. 14; Sp. p. 2527; Gaz. vol. 164; p. 437.
Cigar holder, Lighted-. C. W. Humphreys. No. 982,429; Jan. 24; Sp. p. 4976; Gaz. vol. 162; p. 860.
Cigar-lighter. C. Dickson. No. 1,006,447; Oct. 17; Sp. p. 4143; Gaz. vol. 171; p. 720.
Cigar-lighter, Automatic. A. V. Westerlund. No. 1,006,515; Oct. 24; Sp. p. 4317; Gaz. vol. 171; p. 774.
Cigar-lighter, Electric. V. E. Extrom and T. G. Boardman. No. 981,987; Jan. 17; Sp. p. 4067; Gaz. vol. 162; p. 678.
Cigar-lighter, Electric. R. W. Baker, V. L. King, and H. C. Parker. No. 995,763; June 20; Sp. p. 3654; Gaz. vol. 167; p. 632.
Cigar-lighter, Electric. T. P. Moody. No. 1,011,357; Dec. 12; Sp. p. 2174; Gaz. vol. 173; p. 370.
Cigar-lighter, Pocket. C. Wachtel. No. 1,006,152; Oct. 17; Sp. p. 3480; Gaz. vol. 171; p. 617.
Cigar-machine. W. S. Luckett. No. 1,004,800; Oct. 3; Sp. p. 538; Gaz. vol. 171; p. 89.
Cigar-machine. J. D. Lacroix. No. 1,011,127; Dec. 5; Sp. p. 1601; Gaz. vol. 173; p. 253.
Cigar maker's and twister's seat or stool. C. Büsgen. No. 990,702; Apr. 25; Sp. p. 5258; Gaz. vol. 165; p. 907.
Cigar-making apparatus. J. Stephan. No. 998,268; July 18; Sp. p. 3634; Gaz. vol. 168; p. 649.
Cigar-making machine. J. Haarer. No. 987,457; Mar. 21; Sp. p. 3595; Gaz. vol. 164; p. 640.
Cigar-moistener. J. Sidebotham. No. 1,004,211; Sept. 26; Sp. p. 4490; Gaz. vol. 170; p. 795.
Cigar-package. W. S. Luckett. No. 999,117; July 25; Sp. p. 5496; Gaz. vol. 168; p. 979.
Cigar-packer. N. Du Brul. No. 996,980; July 4; Sp. p. 816; Gaz. vol. 168; p. 131.
Cigar-rack. M. J. Widenhofer. No. 1,006,328; Oct. 17; Sp. p. 3886; Gaz. vol. 171; p. 679.
Cigar-rolling machine. R. Schmitt. No. 1,003,298; Sept. 12; Sp. p. 2441; Gaz. vol. 170; p. 420.
Cigar show-case. A. Lange. No. 985,910; Mar. 7; Sp. p. 325; Gaz. vol. 164; p. 53.
Cigar-tip cutter. L. A. Baum. No. 997,261; July 11; Sp. p. 1398; Gaz. vol. 168; p. 258.
Cigar, Trick-. A. T. Warren. No. 999,924; Aug. 8; Sp. p. 1465; Gaz. vol. 169; p. 278.
Cigar-tube, cigarette-tube, or the like. M. D. Davis. No. 999,155; July 25; Sp. p. 5570; Gaz. vol. 168; p. 990.
Cigar-wrapper. S. Heineman. No. 980,524; Jan. 3; Sp. p. 767; Gaz. vol. 162; p. 122.
Cigar-wrapper-cutting machine. P. E. Shirk. No. 984,781; Feb. 21; Sp. p. 3333; Gaz. vol. 163; p. 587.
Cigars, Device for forcing vapor through. J. C. Duncan. No. 1,011,763; Dec. 12; Sp. p. 3060; Gaz. vol. 173; p. 512.
Cigars, Material for closing perforations and fractures in. L. Rodenhausen. No. 1,008,730; Nov. 14; Sp. p. 2500; Gaz. vol. 172; p. 420.
Cigarette. J. W. Keenan. No. 1,005,981; Oct. 17; Sp. p. 3103; Gaz. vol. 171; p. 558.
Cigarette and cigar case. C. W. Bishop. No. 990,097; Apr. 18; Sp. p. 3852; Gaz. vol. 165; p. 666.
Cigarette and cigarette-tube with mouthpiece. J. Guéniffet and J. Nicault. No. 987,359; Mar. 21; Sp. p. 3378; Gaz. vol. 164; p. 607.
Cigarette and making same. J. W. Blosser. No. 984,742; Feb. 21; Sp. p. 3237; Gaz. vol. 163; p. 573.
Cigarette-box. T. H. Thorne. No. 985,859; Mar. 7; Sp. p. 209; Gaz. vol. 164; p. 34.
Cigarette-box. J. R. W. Menger. No. 1,010,442; Dec. 5; Sp. p. 76; Gaz. vol. 173; p. 16.
Cigarette-container. R. V. Kazian. No. 1,007,113; Oct. 31; Sp. p. 5637; Gaz. vol. 171; p. 1036.

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Cigarette-cork-tipping-machine wrapping mechanism. S. Ragona. No. 1,009,341; Nov. 21; Sp. p. 3826; Gaz. vol. 172; p. 667.
Cigarette-former. L. L. Finch. No. 1,006,541; Oct. 24; Sp. p. 4393; Gaz. vol. 171; p. 785.
Cigarette-machine. E. Koerner. No. 1,000,736; Aug. 15; Sp. p. 3281; Gaz. vol. 169; p. 593.
Cigarette-machine. F. Kettmann. No. 1,008,159; Nov. 7; Sp. p. 1088; Gaz. vol. 172; p. 178.
Cigarette-machine. P. H. Cherry. No. 1,012,123; Dec. 19; Sp. p. 3894; Gaz. vol. 173; p. 674.
Cigarette-machine tobacco-feeding device. M. C. Grahl. No. 1,003,178; Sept. 12; Sp. p. 2190; Gaz. vol. 170; p. 376.
Cigarette-machine with tipping attachment, Continuous. F. E. Ludington. No. 983,299; Feb. 7; Sp. p. 86; Gaz. vol. 163; p. 16.
Cigarette making and tipping machine. F. J. Ludington. No. 989,787; Apr. 18; Sp. p. 3206; Gaz. vol. 165; p. 562.
Cigarette-making machine. C. Coconis. No. 983,480; Feb. 7; Sp. p. 482; Gaz. vol. 163; p. 77.
Cigarette-pack and holder therefor. E. Broussaud. No. 996,968; July 4; Sp. p. 775; Gaz. vol. 168; p. 127.
Cigarette-paper-perforating machine. C. A. Drucklieb. No. 1,007,852; Nov. 7; Sp. p. 483; Gaz. vol. 172; p. 72.
Cigarette-papers, Device for feeding. H. A. F. Franke. No. 996,012; June 20; Sp. p. 4165; Gaz. vol. 167; p. 724.
Cigarette papers, tubes, and the like, Machine for making. M. H. Avram. No. 992,535; May 16; Sp. p. 3667; Gaz. vol. 166; p. 657.
Cigarette-tipping machine. B. S. Molyneux. No. 981,785; Jan. 17; Sp. p. 3577; Gaz. vol. 162; p. 607.
Cigarette-tipping machine. J. C. Drucklieb and C. Simon. No. 988,985; Apr. 11; Sp. p. 1453; Gaz. vol. 165; p. 256.
Cigarette-tipping machine. R. R. Karich. No. 991,514; May 9; Sp. p. 1464; Gaz. vol. 166; p. 275.
Cigarette-tubes, Machine for making tipped. M. H. Avram. No. 1,011,557; Dec. 12; Sp. p. 2607; Gaz. vol. 173; p. 441.
Cigarettes, Machine for producing spiral mouthpieces for. L. Lindelöf. No. 999,048; July 25; Sp. p. 5384; Gaz. vol. 168; p. 957.
Circuit-breaker. H. P. Ball and G. Wright. No. 982,116; Jan. 17; Sp. p. 4323; Gaz. vol. 162; p. 721.
Circuit-breaker. J. D. Bradford and B. R. Moore. No. 990,471; Apr. 25; Sp. p. 4720; Gaz. vol. 165; p. 830.
Circuit-breaker. E. Johnson. No. 991,511; May 9; Sp. p. 1457; Gaz. vol. 166; p. 273.
Circuit-breaker. W. S. Ryan. No. 991,546; May 9; Sp. p. 1548; Gaz. vol. 166; p. 287.
Circuit-breaker. C. C. Badeau. No. 993,637; May 30; Sp. p. 6026; Gaz. vol. 166; p. 1095.
Circuit-breaker. C. C. and I. F. Badeau. No. 996,393; June 27; Sp. p. 5056; Gaz. vol. 167; p. 890.
Circuit-breaker. W. M. Scott. No. 997,332; July 11; Sp. p. 1553; Gaz. vol. 168; p. 282.
Circuit-breaker. A. L. Horton. No. 998,580; July 18; Sp. p. 4296; Gaz. vol. 168; p. 759.
Circuit-breaker. M. P. Ryder. No. 998,990; July 25; Sp. p. 5256; Gaz. vol. 168; p. 936.
Circuit-breaker. W. J. Lietzenmayer. No. 1,002,855; Sept. 12; Sp. p. 1493; Gaz. vol. 170; p. 264.
Circuit-breaker. C. C. Badeau. No. 1,006,522; Oct. 24; Sp. p. 4329; Gaz. vol. 171; p. 777.
Circuit-breaker. W. P. Hamlyn. No. 1,010,422; Dec. 5; Sp. p. 38; Gaz. vol. 173; p. 8.
Circuit-breaker. H. L. Van Valkenburg. No. 1,011,097; Dec. 5; Sp. p. 1533; Gaz. vol. 173; p. 242.
Circuit-breaker. E. M. Hewlett and C. H. Hill. No. 1,011,784; Dec. 12; Sp. p. 3105; Gaz. vol. 173; p. 520.
Circuit-breaker. C. H. Hill. No. 1,011,785; Dec. 12; Sp. p. 3110; Gaz. vol. 173; p. 521.
Circuit-breaker, Automatic. A. E. Greene. No. 986,708; Mar. 14; Sp. p. 2018; Gaz. vol. 164; p. 354.
Circuit-breaker, Automatic. E. C. Raney and C. E. Simmons. No. 1,005,575; Oct. 10; Sp. p. 2225; Gaz. vol. 171; p. 384.
Circuit-breaker, Electrically-operated. H. L. Van Valkenburg. No. 987,775; Mar. 28; Sp. p. 4261; Gaz. vol. 164; p. 777.
Circuit-breaker, Explosion. H. P. Davis and F. W. Harris. No. 1,009,386; Nov. 21; Sp. p. 3953; Gaz. vol. 172; p. 683.
Circuit-breaker, Rotary. S. T. Hutton. No. 988,571; Apr. 4; Sp. p. 602; Gaz. vol. 165; p. 97.
Circuit-closer. F. A. Pierce. No. 1,006,005; Oct. 17; Sp. p. 3144; Gaz. vol. 171; p. 565.
Circuit-closer, Automatic. L. A. Laplant. No. 994,170; June 6; Sp. p. 136; Gaz. vol. 167; p. 25.
Circuit-closer, Thermal. F. C. Guptill. No. 986,382; Mar. 7; Sp. p. 1316; Gaz. vol. 164; p. 212.
Circuit-closer, Time-limit. F. B. Corey. No. 1,001,932; Aug. 29; Sp. p. 5860; Gaz. vol. 169; p. 1065.
Circuit-closing device. W. E. Morton. No. 1,006,395; Oct. 17; Sp. p. 4028; Gaz. vol. 171; p. 702.
Circuit-closing device, Automatic. W. A. Collins. No. 994,375; June 6; Sp. p. 573; Gaz. vol. 167; p. 98.
Circuit-controller. C. W. Yerger. No. 997,224; July 4; Sp. p. 1317; Gaz. vol. 168; p. 215.
Circuit-controller. A. C. Livermore. No. 997,397; July 11; Sp. p. 1669; Gaz. vol. 168; p. 303.
Circuit-controller. J. P. Coleman. No. 1,003,338; Sept. 12; Sp. p. 2525; Gaz. vol. 170; p. 435.
Circuit-controller. J. P. Coleman and P. Utne. No. 1,009,476; Nov. 21; Sp. p. 4147; Gaz. vol. 172; p. 714.
Circuit-controller, Combination. J. L. Wagner. No. 984,325; Feb. 14; Sp. p. 2326; Gaz. vol. 163; p. 394.
Circuit-controller, Pressure-operated. F. J. Frasier. No. 993,977; May 30; Sp. p. 6729; Gaz. vol. 166; p. 1211.
Circuit-controller, Time. W. P. Allen. No. 992,631; May 16; Sp. p. 3872; Gaz. vol. 166; p. 690.
Circuit-controlling apparatus. J. Sachs. No. 985,943; Mar. 7; Sp. p. 401; Gaz. vol. 164; p. 64.
Circuit-controlling apparatus. W. M. Scott. No. 998,925; July 25; Sp. p. 5090; Gaz. vol. 168; p. 913.
Circuit-controlling device. J. B. Wiard. No. 998,662; July 25; Sp. p. 4490; Gaz. vol. 168; p. 820.
Circuit-controlling device. J. E. Woodbridge. No. 1,011,546; Dec. 12; Sp. p. 2579; Gaz. vol. 173; p. 436.
Circuit-controlling switch. C. H. Hill. No. 996,336; June 27; Sp. p. 4939; Gaz. vol. 167; p. 869.
Circuit-controlling system. J. H. Hall. No. 1,001,023; Aug. 22; Sp. p. 3955; Gaz. vol. 169; p. 727.
Circuit-interrupter. H. R. Stuart. No. 981,816; Jan. 17; Sp. p. 3661; Gaz. vol. 162; p. 619.
Circuit-interrupter. E. M. Tormin. No. 990,790; Apr. 25; Sp. p. 5448; Gaz. vol. 165; p. 938.
Circuit-interrupter. F. W. Harris. No. 996,851; July 4; Sp. p. 516; Gaz. vol. 168; p. 85.
Circuit-interrupter. F. W. Harris. No. 1,003,044; Sept. 12; Sp. p. 1904; Gaz. vol. 170; p. 328.
Circuit-interrupter. C. Aalborg. No. 1,005,121; Oct. 10; Sp. p. 1175; Gaz. vol. 171; p. 221.
Circuit, Loaded phantom-. G. A. Campbell and T. Shaw. No. 980,921; Jan. 10; Sp. p. 1652; Gaz. vol. 162; p. 286.
Circuit making and breaking mechanism. B. P. Hayes. No. 990,483; Apr. 25; Sp. p. 4743; Gaz. vol. 165; p. 834.
Circuit, Phantomed loaded. T. Shaw. No. 981,015; Jan. 10; Sp. p. 1931; Gaz. vol. 162; p. 319.
Circuit, Polystation line-. G. Ritter. No. 1,009,182; Nov. 21; Sp. p. 3438; Gaz. vol. 172; p. 608.
Circuit trouble-indicator. C. L. Healy. No. 989,008; Apr. 11; Sp. p. 1508; Gaz. vol. 165; p. 264.
Cistern. B. L. Mills. No. 986,402; Mar. 7; Sp. p. 1361; Gaz. vol. 164; p. 219.
Cistern. G. G. Ross. No. 992,598; May 16; Sp. p. 3821; Gaz. vol. 166; p. 680.
Cistern-cleaning apparatus. J. Shepherd. No. 985,708; Feb. 28; Sp. p. 5353; Gaz. vol. 163; p. 938.
Cistern-cleaning apparatus, Automatic. L. Thiem. No. 989,827; Apr. 18; Sp. p. 3301; Gaz. vol. 165; p. 576.
Cistern cut-off, Automatic. E. S. Shelby. No. 1,006,138; Oct. 17; Sp. p. 3445; Gaz. vol. 171; p. 612.
Cistern or tank. A. B. Crawford. No. 986,143; Mar. 7; Sp. p. 803; Gaz. vol. 164; p. 130.
Clamp: *See* Adjustable clamp; Attaching-clamp; Automobile spring-clamp; Belt-clamp; Bench-clamp; Box-cover clamp; Cable-clamp; Casket-clamp; Cloth-clamp; Clothes-clamp; Clothes-line clamp; Door-clamp; Door-casing clamp; Electrical clamp; Fence-clamp; Fence-post clamp; Flanging-clamp; Flooring-clamp; Furniture-clamp; Glass-clamp; Grinder-clamp; Grounding-clamp; Handle-clamp; Hoop-clamp; Hose-clamp; Ironing-board work-clamp; Jeweler's clamp; Laundry-net clamp; Lens-clamp; Lid-clamp; Lumber and the like clamp; Milker's tail-clamp; Mold-clamp; Paper-tube-seam clamp; Planking and decking clamp; Plate-holding clamp; Rail-clamp; Rail and tie clamp; Rail-end clamp; Rail-joint clamp; Railway-clamp; Rope-clamp; Rubber-dam clamp; Saddle and post clamp; Safety-clamp; Saw-clamp; Scaffolding-clamp; Skate-holding clamp; Slat-clamp; Sole-clamp; Stereotype-plate clamp; Strain-clamp; Tail-stock clamp; Terminal clamp; Tire-clamp; Tool-clamp; Trestle-clamp; Trolley-clamp; Umbrella-fabric clamp; Wagon-box clamp; Welding-clamp; Wire-clamp.
Clamp. J. W. Fraser. No. 980,237; Jan. 3; Sp. p. 114; Gaz. vol. 162; p. 23.
Clamp. F. E. R. Krumhaar and S. J. Malboeuf. No. 983,148; Jan. 31; Sp. p. 6501; Gaz. vol. 162; p. 1130.
Clamp. B. P. Landreth. No. 985,682; Feb. 28; Sp. p. 5257; Gaz. vol. 163; p. 928.
Clamp. J. H. Gibson. No. 989,490; Apr. 11; Sp. p. 2543; Gaz. vol. 165; p. 430.
Clamp. B. A. Peterson. No. 991,640; May 9; Sp. p. 1748; Gaz. vol. 166; p. 321.
Clamp. E. Adell. No. 993,940; May 30; Sp. p. 6659; Gaz. vol. 166; p. 1199.
Clamp. O. Bergstrom. No. 994,630; June 6; Sp. p. 1094; Gaz. vol. 167; p. 182.
Clamp. P. D. McAuliffe. No. 994,768; June 13; Sp. p. 1474; Gaz. vol. 167; p. 270.
Clamp. R. E. Hess. No. 996,244; June 27; Sp. p. 4711; Gaz. vol. 167; p. 838.
Clamp. I. Bellis. No. 998,453; July 18; Sp. p. 4028; Gaz. vol. 168; p. 715.

Alphabetical list of inventions—Continued.

Clamp. A. L. Cobb. No. 1,004,743; Oct. 3; Sp. p. 420; Gaz. vol. 171; p. 71.
Clamp. A. E. Palmer. No. 1,005,292; Oct. 10; Sp. p. 1568; Gaz. vol. 171; p. 283.
Clamp. H. Brotherhood. No. 1,005,768; Oct. 10; Sp. p. 2615; Gaz. vol. 171; p. 451.
Clamp. F. J. W. Maguire and T. Lucier. No. 1,009,913; Nov. 28; Sp. p. 5017; Gaz. vol. 172; p. 905.
Clamp. M. S. Robinson. No. 1,010,075; Nov. 28; Sp. p. 5368; Gaz. vol. 172; p. 962.
Clamp. R. B. Clement. No. 1,012,600; Dec. 26; Sp. p. 4878; Gaz. vol. 173; p. 879.
Clamp feeder and releaser, Automatic. J. J. M. Chauvet and J. T. Dowdall. No. 1,006,827; Oct. 24; Sp. p. 5003; Gaz. vol. 171; p. 885.
Clamp for brazing or similar work. C. R. Sturdevant. No. 1,002,941; Sept. 12; Sp. p. 1711; Gaz. vol. 170; p. 296.
Clamp for metal-covered doors and saws. J. A. McGill. No. 999,174; July 25; Sp. p. 5602; Gaz. vol. 168; p. 996.
Clamp member. C. G. Matthias. No. 1,008,656; Nov. 14; Sp. p. 2338; Gaz. vol. 172; p. 395.
Clamp-support. P. G. MacGregor. No. 997,456; July 11; Sp. p. 1774; Gaz. vol. 168; p. 322.
Clamping and supporting mechanism. F. C. Peck. No. 998,922; July 25; Sp. p. 5086; Gaz. vol. 168; p. 913.
Clamping apparatus. J. R. Thomas. No. 985,857; Mar. 7; Sp. p. 205; Gaz. vol. 164; p. 33.
Clamping device. A. B. Wood. No. 982,773; Jan. 24; Sp. p. 5692; Gaz. vol. 162; p. 976.
Clamping device. A. L. Blodgett. No. 990,517; Apr. 25; Sp. p. 4855; Gaz. vol. 165; p. 847.
Clamping device. N. Piquette. No. 991,084; May 2; Sp. p. 533; Gaz. vol. 166; p. 92.
Clamping device. A. W. Richards. No. 996,884; July 4; Sp. p. 589; Gaz. vol. 168; p. 97.
Clamping device. D. D. Thompson. No. 997,103; July 4; Sp. p. 1070; Gaz. vol. 168; p. 173.
Clamping device. C. Kingsley. No. 998,014; July 18; Sp. p. 3063; Gaz. vol. 168; p. 558.
Clamping device. G. K. Boughner. No. 1,012,508; Dec. 19; Sp. p. 4675; Gaz. vol. 173; p. 803.
Clamping device, Receptacle-. W. B. Williams. No. 983,225; Jan. 31; Sp. p. 6656; Gaz. vol. 162; p. 1157.
Clamping-jacket. F. J. Becker. No. 985,771; Mar. 7; Sp. p. 7; Gaz. vol. 164; p. 4.
Clamping mechanism. C. F. Fernald. No. 988,988; Apr. 11; Sp. p. 1468; Gaz. vol. 165; p. 258.
Clamping mechanism. B. M. W. Hanson. No. 989,006; Apr. 11; Sp. p. 1505; Gaz. vol. 165; p. 264.
Clamping mechanism. L. H. Vold. No. 991,675; May 9; Sp. p. 1845; Gaz. vol. 166; p. 333.
Clamping mechanism, Head-. C. L. Grohmann. No. 989,743; Apr. 18; Sp. p. 3112; Gaz. vol. 165; p. 547.
Clamping-tool. R. E. Jack. No. 986,464; Mar. 14; Sp. p. 1498; Gaz. vol. 164; p. 270.
Clamping-tool. J. S. McKinley and H. Brown. No. 991,628; May 9; Sp. p. 1719; Gaz. vol. 166; p. 316.
Clams and other fish, Machine for cleaning. F. Shaffer. No. 1,011,378; Dec. 12; Sp. p. 2205; Gaz. vol. 173; p. 376.
Clarinet. D. Julliot. No. 1,008,272; Nov. 7; Sp. p. 1343; Gaz. vol. 172; p. 220.
Clarinet mouthpiece-reeds. Clamp for. L. H. Starkey. No. 995,104; June 13; Sp. p. 2209; Gaz. vol. 167; p. 384.
Clasp: *See* Button-and-loop clasp; Chain-clasp; Corset-clasp; Garment-clasp; Hose-supporter clasp; Index-tab clasp; Spring-clasp; Wire clasp.
Clasp. F. G. Spear. No. 982,102; Jan. 17; Sp. p. 4300; Gaz. vol. 162; p. 717.
Clasp. E. S. Kelley. No. 984,928; Feb. 21; Sp. p. 3600; Gaz. vol. 163; p. 635.
Clasp. C. M. Simpson. No. 989,071; Apr. 11; Sp. p. 1646; Gaz. vol. 165; p. 287.
Clasp. T. B. Grenninger. No. 989,844; Apr. 18; Sp. p. 3338; Gaz. vol. 165; p. 582.
Clasp. S. Korf and A. Jacobson. No. 995,260; June 13; Sp. p. 2515; Gaz. vol. 167; p. 435.
Clasp. G. H. Nearing. No. 1,004,542; Sept. 26; Sp. p. 5158; Gaz. vol. 170; p. 907.
Clasp. W. T. Sondley. No. 1,006,013; Oct. 17; Sp. p. 3164; Gaz. vol. 171; p. 568.
Clasp. L. Anderson. No. 1,008,578; Nov. 14; Sp. p. 2160; Gaz. vol. 172; p. 368.
Clasp or holder. A. J. Pollock. No. 982,298; Jan. 24; Sp. p. 4711; Gaz. vol. 162; p. 814.
Classifier. C. Hoyle and H. A. Guess. No. 1,007,205; Oct. 31; Sp. p. 5863; Gaz. vol. 171; p. 1070.
Clay, kaolin, and ceramic masses, Treating. G. Keppeler and A. Spangenberg. No. 1,001,413; Aug. 22; Sp. p. 4769; Gaz. vol. 169; p. 859.
Clay or the like, Machine for cleaning and sorting. M. Bohn. No. 988,968; Apr. 11; Sp. p. 1414; Gaz. vol. 165; p. 251.
Clay-press. W. D. Frerichs. No. 1,012,835; Dec. 26; Sp. p. 5420; Gaz. vol. 173; p. 962.
Clean-out. P. J. O'Brien. No. 1,012,902; Dec. 26; Sp. p. 5574; Gaz. vol. 173; p. 983.
Cleaner: *See* Boiler-cleaner; Boiler-flue cleaner; Boiler-tube cleaner; Can-cleaner; Carpet-cleaner; Cloth-cleaner; Comb-cleaner; Cotton-cleaner; Cotton-gin cleaner; Eraser-cleaner; Eyeglass-cleaner; Feed-water cleaner; Fish-cleaner; Flue-cleaner; Gin-saw cleaner; Glass dry cleaner; Grain-cleaner; Gun-cleaner; Harrow-cleaner; Horse-cleaner; Lamp-cleaner; Lawn-cleaner; Molding-cleaner; Pipe-cleaner; Pneumatic cleaner; Pneumatic carpet-cleaner; Rail-cleaner; Refrigerator-drain-pipe cleaner; Rifle-cleaner; Saw-cleaner; Seed-cleaner; Seed-cotton cleaner; Sewer-cleaner; Ship-cleaner; Sieve-cleaner; Skin-cleaner; Snow-cleaner; Stovepipe-cleaner; Suction-cleaner; Track-cleaner; Tube-cleaner; Vacuum-cleaner; Vehicle mud-cleaner; Well-cleaner; Wind-shield cleaner; Window-cleaner; Yarn-cleaner.
Cleaning and drying mitt. J. A. Dueease. No. 993,662; May 30; Sp. p. 6098; Gaz. vol. 166; p. 1104.
Cleaning and polishing apparatus. P. S. Burns. No. 991,131; May 2; Sp. p. 641; Gaz. vol. 166; p. 110.
Cleaning and polishing device. A. Johnson. No. 982,824; Jan. 31; Sp. p. 5814; Gaz. vol. 162; p. 1023.
Cleaning and polishing device. J. E. S. Taylor. No. 1,000,458; Aug. 15; Sp. p. 2655; Gaz. vol. 169; p. 493.
Cleaning and scrubbing implement. T. A. Schoenlau. No. 994,204; June 6; Sp. p. 216; Gaz. vol. 167; p. 37.
Cleaning and separating machine. A. T. Hedfeldt. No. 988,707; Apr. 4; Sp. p. 909; Gaz. vol. 165; p. 143.
Cleaning and sterilizing apparatus. J. J. Heathcote. No. 985,801; Mar. 7; Sp. p. 66; Gaz. vol. 164; p. 15.
Cleaning apparatus. J. L. and H. Wallace. No. 996,691; July 4; Sp. p. 185; Gaz. vol. 168; p. 32.
Cleaning apparatus. T. J. and D. M. Winans. No. 1,003,844; Sept. 19; Sp. p. 3591; Gaz. vol. 170; p. 639.
Cleaning apparatus, Portable air-suction. F. H. Sander. No. 984,779; Feb. 21; Sp. p. 3327; Gaz. vol. 163; p. 587.
Cleaning device, Suction. W. S. Cheston and T. A. McIntyre, Jr. No. 1,011,579; Dec. 12; Sp. p. 2685; Gaz. vol. 173; p. 450.
Cleaning-fluid-dispensing apparatus. J. N. B. Bond. No. 984,187; Feb. 14; Sp. p. 2010; Gaz. vol. 163; p. 345.
Cleaning implement. J. S. Sourek. No. 1,008,382; Nov. 14; Sp. p. 1669; Gaz. vol. 172; p. 297.
Cleaning-machine. A. A. Long. No. 1,012,671; Dec. 26; Sp. p. 5031; Gaz. vol. 173; p. 903.
Cleaning-machine, Suction. D. P. Moore and S. B. Pack. No. 986,403; Mar. 7; Sp. p. 1363; Gaz. vol. 164; p. 219.
Cleaning mechanism. E. G. Clymans and A. M. Hess. No. 990,803; Apr. 25; Sp. p. 5472; Gaz. vol. 165; p. 942.
Cleaning-tool. I. H. Spencer. No. 982,640; Jan. 24; Sp. p. 5401; Gaz. vol. 162; p. 932.
Cleaning-tool and connection. I. H. Spencer. No. 981,893; Jan. 17; Sp. p. 3834; Gaz. vol. 162; p. 647.
Cleansing and disinfecting fluid. A. H. Peter. No. 981,876; Jan. 17; Sp. p. 3783; Gaz. vol. 162; p. 639.
Cleansing and pitching machine. H. Waibel. No. 1,003,076; Sept. 12; Sp. p. 1961; Gaz. vol. 170; p. 339.
Cleansing device. S. Hymes. No. 988,194; Mar. 28; Sp. p. 5179; Gaz. vol. 164; p. 918.
Cleansing fluid and sheep-dip. W. G. Little. No. 992,220; May 16; Sp. p. 2939; Gaz. vol. 166; p. 547.
Clearer-cover. H. C. Wood. No. 1,002,478; Sept. 5; Sp. p. 676; Gaz. vol. 170; p. 98.
Cleat. J. G. Morris. No. 991,739; May 9; Sp. p. 1964; Gaz. vol. 166; p. 352.
Cleats from fellies, Machine for removing. C. B. Hayes. No. 1,010,424; Dec. 5; Sp. p. 43; Gaz. vol. 173; p. 9.
Clevis. R. D. Hobbs. No. 981,427; Jan. 10; Sp. p. 2880; Gaz. vol. 162; p. 464.
Clevis. E. Prechel. No. 991,888; May 9; Sp. p. 2262; Gaz. vol. 166; p. 403.
Clevis. M. Paveletz. No. 994,783; June 13; Sp. p. 1501; Gaz. vol. 167; p. 276.
Clevis. W. H. McWhirter. No. 999,830; Aug. 8; Sp. p. 1254; Gaz. vol. 169; p. 245.
Clevis. L. D. Bell. No. 1,001,241; Aug. 22; Sp. p. 4394; Gaz. vol. 169; p. 799.
Clevis. J. O. Goss. No. 1,005,537; Oct. 10; Sp. p. 2099; Gaz. vol. 171; p. 370.
Clevis. M. A. Nelson. No. 1,009,552; Nov. 21; Sp. p. 4300; Gaz. vol. 172; p. 740.
Clevis connection. A. Anderson. No. 1,008,771; Nov. 14; Sp. p. 2591; Gaz. vol. 172; p. 434.
Clicking-machine. S. W. Ladd. No. 1,006,568; Oct. 24; Sp. p. 4457; Gaz. vol. 171; p. 795.
Climbing and descending apparatus. W. W. Love. No. 1,002,289; Sept. 5; Sp. p. 235; Gaz. vol. 170; p. 31.
Climbing and scaling device. E. J. Rimmer. No. 998,396; July 18; Sp. p. 3928; Gaz. vol. 168; p. 696.
Climbing apparatus. H. E. Hersh. No. 1,007,354; Oct. 31; Sp. p. 6156; Gaz. vol 171; p. 1122.
Climbing device. G. R. Bair. No. 991,472; May 9; Sp. p. 1378; Gaz. vol. 166; p. 260.
Climbing device. M. N. Webster. No. 1,004,547; Sept. 26; Sp. p. 5165; Gaz. vol. 170; p. 908.
Clinometer. M. Clarke. No. 986,140; Mar. 7; Sp. p. 798; Gaz. vol. 164; p. 129.
Clinometer. J. H. Dissett. No. 1,012,993; Dec. 26; Sp. p. 5795; Gaz. vol. 173; p. 1014.

Clinometer, Aeronautical. J. Means. No. 996,106; June 27; Sp. p. 4373; Gaz. vol. 167; p. 792.
Clip: *See* Axle-clip; Battery terminal clip; Car-roof clip; Cigar-box clip; Dental matrix-clip; Electric-wire-terminal clip; Fence-clip; Frame-clip; Harrow-tooth clip; Memorandum-slip clip; Metal-studding clip; Pen and pencil clip; Pin-attached clip; Roof-clip; Rope-clip; Seat-clip; Spring-clip; Swingletree-clip; Switch-clip; Tag-holding clip; Tug-clip; Vacuum-clip; Whiffletree-clip; Whiffletree and neck-yoke safety-clip.
Clip. R. Whitlock. No. 981,829; Jan. 17; Sp. p. 3691; Gaz. vol. 162; p. 624.
Clip. P. E. Shee. No. 1,005,895; Oct. 17; Sp. p. 2903; Gaz. vol. 171; p. 527.
Clip-fastener, Double wire-netting. E. B. Hardie. No. 1,007,564; Oct. 31; Sp. p. 6630; Gaz. vol. 171; p. 1195.
Clip for use in stentering-machines. A. A. Whitley. No. 996,441; June 27; Sp. p. 5175; Gaz. vol. 167; p. 907.
Clip or fastener for garments, binders, &c. T. A. Banta. No. 987,687; Mar. 28; Sp. p. 4071; Gaz. vol. 164; p. 748.
Clipper. O. Karcher. No. 1,011,808; Dec. 12; Sp. p. 3164; Gaz. vol. 173; p. 529.
Clipping and pruning shears. J. P. South. No. 991,250; May 2; Sp. p. 904; Gaz. vol. 166; p. 153.
Clock. H. C. Ehrick. No. 982,804; Jan. 31; Sp. p. 5767; Gaz. vol. 162; p. 1016.
Clock. V. E. Duncanson. No. 986,447; Mar. 14; Sp. p. 1461; Gaz. vol. 164; p. 263.
Clock. W. W. Billings. No. 990,697; Apr. 25; Sp. p. 5249; Gaz. vol. 165; p. 905.
Clock. L. D. Giddens. No. 990,809; Apr. 25; Sp. p. 5481; Gaz. vol. 165; p. 944.
Clock. W. E. Porter. No. 991,235; May 2; Sp. p. 867; Gaz. vol. 166; p. 147.
Clock. W. E. Porter. No. 991,236; May 2; Sp. p. 869; Gaz. vol. 166; p. 147.
Clock. F. A. Pica. No. 997,004; July 4; Sp. p. 883; Gaz. vol. 168; p. 140.
Clock. O. Adams. No. 1,009,880; Nov. 28; Sp. p. 5960; Gaz. vol. 172; p. 895.
Clock. J. J. Busenbenz. No. 1,012,243; Dec. 19; Sp. p. 4160; Gaz. vol. 173; p. 714.
Clock, Alarm-. H. H. Boyce. No. 983,672; Feb. 7; Sp. p. 904; Gaz. vol. 163; p. 143.
Clock, Alarm-. T. Lassen. No. 984,573; Feb. 21; Sp. p. 2875; Gaz. vol. 163; p. 512.
Clock, Alarm-. J. A. Olmsted. No. 985,693; Feb. 28; Sp. p. 5296; Gaz. vol. 163; p. 932.
Clock, Alarm-. E. E. Stockton and A. H. Porter. No. 989,310; Apr. 11; Sp. p. 2165; Gaz. vol. 165; p. 368.
Clock, Alarm-. H. Wachtelhausen. No. 990,465; Apr. 25; Sp. p. 4704; Gaz. vol. 165; p. 827.
Clock, Alarm-. P. Lux. No. 990,573; Apr. 25; Sp. p. 4955; Gaz. vol. 165; p. 865.
Clock, Alarm-. F. Goss. No. 995,249; June 13; Sp. p. 2486; Gaz. vol. 167; p. 430.
Clock, Alarm-. M. I. Guertin. No. 1,005,540; Oct. 10; Sp. p. 2104; Gaz. vol. 171; p. 371.
Clock and like instrument, Electric. H. Creese. No. 990,342; Apr. 25; Sp. p. 4422; Gaz. vol. 165; p. 782.
Clock and shock-recorder, Combined. W. H. Bristol. No. 1,000,147; Aug. 8; Sp. p. 1972; Gaz. vol. 169; p. 354.
Clock and telephone system, Combined watchman's. F. G. Duryee. No. 1,010,415; Dec. 5; Sp. p. 24; Gaz. vol. 173; p. 6.
Clock and time-interval transmitter, Electrically-controlled. H. I. Aiken. No. 996,551; June 27; Sp. p. 5381; Gaz. vol. 167; p. 942.
Clock and watch. R. B. Hansell. No. 995,457; June 20; Sp. p. 2967; Gaz. vol. 167; p. 529.
Clock and watch, Alarm. C. L. Faivre. No. 1,011,596; Dec. 12; Sp. p. 2724; Gaz. vol. 173; p. 457.
Clock, Calendar-. W. S. Overlin. No. 1,008,859; Nov. 14; Sp. p. 2753; Gaz. vol. 172; p. 464.
Clock-case, Collapsible. J. W. Ellis. No. 984,201; Feb. 14; Sp. p. 2039; Gaz. vol. 163; p. 351.
Clock-controlled switch. A. K. White. No. 1,012,490; Dec. 19; Sp. p. 4641; Gaz. vol. 173; p. 796.
Clock, Electric. L. F. Stadel. No. 987,768; Mar. 28; Sp. p. 4250; Gaz. vol. 164; p. 775.
Clock, Electric. C. E. Mathiesen. No. 995,797; June 20; Sp. p. 3733; Gaz. vol. 167; p. 650.
Clock, Electric alarm-. E. R. Weaver. No. 1,006,322; Oct. 17; Sp. p. 3871; Gaz. vol. 171; p. 677.
Clock, Electric program-. G. P. Milde. No. 1,008,848; Nov. 14; Sp. p. 2734; Gaz. vol. 172; p. 460.
Clock, Electric self-winding. W. H. Kallenbach and C. C. Bertsch. No. 984,008; Feb. 14; Sp. p. 1655; Gaz. vol. 163; p. 285.
Clock-gong. A. W. Owen. No. 992,138; May 9; Sp. p. 2753; Gaz. vol. 166; p. 487.
Clock-gong. M. Büge. No. 993,022; May 23; Sp. p. 4709; Gaz. vol. 166; p. 857.
Clock-holder. H. Schmidt. No. 987,176; Mar. 21; Sp. p. 2990; Gaz. vol. 164; p. 543.
Clock, Indicating-. W. W. Rhame and S. H. Nuckolls. No. 989,290; Apr. 11; Sp. p. 2118; Gaz. vol. 165; p. 361.
Clock, Keyless. W. E. E. Milz. No. 1,009,773; Nov. 28; Sp. p. 4745; Gaz. vol. 172; p. 860.
Clock, Keyless. F. Phinney. No. 1,010,172; Nov. 28; Sp. p. 5547; Gaz. vol. 172; p. 994.
Clock-movement. W. E. Porter. No. 988,660; Apr. 4; Sp. p. 795; Gaz. vol. 165; p. 128.
Clock-pendulum having alternating rotary movement. C. Grivolas. No. 991,717; May 9; Sp. p. 1932; Gaz. vol. 166; p. 347.
Clock, Pneumatic. P. Poetto. No. 998,923; July 25; Sp. p. 5087; Gaz. vol. 168; p. 913.
Clock, Pneumatic. A. L. Hahl. No. 999,779; Aug. 8; Sp. p. 1154; Gaz. vol. 169; p. 229.
Clock, Program-. J. W. Hensen. No. 983,705; Feb. 7; Sp. p. 966; Gaz. vol. 163; p. 153.
Clock, Program-. A. W. South. No. 1,004,097; Sept. 26; Sp. p. 4239; Gaz. vol. 170; p. 756.
Clock, Self-setting. H. Watson. No. 998,819; July 25; Sp. p. 4846; Gaz. vol. 168; p. 875.
Clock, Self-winding. T. B. Powers. No. 1,012,010; Dec. 19; Sp. p. 3633; Gaz. vol. 173; p. 633.
Clock, Self-winding electric. R. L. Hight. No. 984,218; Feb. 14; Sp. p. 2105; Gaz. vol. 163; p. 357.
Clock, Ship's-bell. W. K. Menns. No. 1,001,668; Aug. 29; Sp. p. 5268; Gaz. vol. 169; p. 975.
Clock striking mechanism. E. Towns. No. 1,001,095; Aug. 22; Sp. p. 4107; Gaz. vol. 169; p. 753.
Clock, Watch-. T. F. Gaynor. No. 993,050; May 23; Sp. p. 4770; Gaz. vol. 166; p. 867.
Clock, Watchman's. R. C. Rose. No. 984,301; Feb. 14; Sp. p. 2282; Gaz. vol. 163; p. 387.
Clock, Watchman's. F. Hardinge. No. 986,630; Mar. 14; Sp. p. 1848; Gaz. vol. 164; p. 328.
Clock, Watchman's. J. Schlenker-Grusen. No. 991,460; May 2; Sp. p. 1353; Gaz. vol. 166; p. 224.
Clock, Watchman's. R. C. Rose. No. 999,874; Aug. 8; Sp. p. 1351; Gaz. vol. 169; p. 261.
Clock, Watchman's. A. Beyer. No. 1,003,227; Sept. 12; Sp. p. 2299; Gaz. vol. 170; p. 394.
Clocks, Bell-rack for hall-. W. J. Herschede. No. 988,338; Apr. 4; Sp. p. 99; Gaz. vol. 165; p. 18.
Clocks, Device for driving electric secondary. G. O Larsson. No. 1,006,569; Oct. 24; Sp. p. 4459; Gaz. vol. 171; p. 796.
Clocks, Supervisory signaling device for. F. W. Cole. No. 997,603; July 11; Sp. p. 2079; Gaz. vol. 168; p. 371.
Clod-crusher. F. M. Stier. No. 985,641; Feb. 28; Sp. p. 5170; Gaz. vol. 163; p. 914.
Clod-crusher. L. L. Shannon. No. 1,000,557; Aug. 15; Sp. p. 2881; Gaz. vol. 169; p. 529.
Closet: *See* Bath-closet; Disinfecting-closet; Portable closet; Water-closet.
Closet bend or connection. F. W. Carlson. No. 986,905; Mar. 14; Sp. p. 2442; Gaz. vol. 164; p. 422.
Closet-bowl. C. H. Kimble. No. 988,787; Apr. 4; Sp. p. 1064; Gaz. vol. 165; p. 170.
Closet-bowl ventilator. F. Levenhagen and A. H. Halder. No. 988,273; Mar. 28; Sp. p. 5339; Gaz. vol. 164; p. 945.
Closet bracket, Crystal-. R. Jasper. No. 1,002,063; Aug. 29; Sp. p. 6121; Gaz. vol. 169; p. 1106.
Closet cuspidor attachment. W. H. Faust. No. 1,002,508; Sept. 5; Sp. p. 732; Gaz. vol. 170; p. 107.
Closet-fixtures, Ventilating apparatus for. C. E. Shadall. No. 1,004,917; Oct. 3; Sp. p. 808; Gaz. vol. 171; p. 130.
Closet-seat. B. F. Fridge, Sr. No. 990,723; Apr. 25; Sp. p. 5301; Gaz. vol. 165; p. 914.
Closet-seat. E. Schindler. No. 995,296; June 13; Sp. p. 2578; Gaz. vol. 167; p. 446.
Closet-seat. W. M. Kurtz and M. R. May. No. 995,355; June 13; Sp. p. 2731; Gaz. vol. 167; p. 467.
Closet-seat. J. G. Ellis. No. 998,483; July 18; Sp. p. 4093; Gaz. vol. 168; p. 725.
Closet-seat, Child's. N. P. Wallace. No. 982,553; Jan. 24; Sp. p. 5246; Gaz. vol. 162; p. 904.
Closure. H. Coale. No. 989,336; Apr. 11; Sp. p. 2219; Gaz. vol. 165; p. 376.
Closure for vessels, Sifting-. H. S. Rodgers. No. 985,634; Feb. 28; Sp. p. 5157; Gaz. vol. 163; p. 911.
Closure, Knockdown. E. E. and G. F. Cox. No. 988,757; Apr. 4; Sp. p. 1008; Gaz. vol. 165; p. 160.
Closure-locking means. C. J. Ljunggren. No. 1,002,287; Sept. 5; Sp. p. 231; Gaz. vol. 170; p. 30.
Closure-locking means. C. J. Ljunggren. No. 1,002,409; Sept. 5; Sp. p. 524; Gaz. vol. 170; p. 74.
Closures in receptacles, Machine for inserting. C. F. Jenkins. No. 985,900; Mar. 7; Sp. p. 309; Gaz. vol. 164; p. 49.
Closures, Making receptacle-. C. F. Jenkins. No. 988,716; Apr. 4; Sp. p. 926; Gaz. vol. 165; p. 147.
Cloth, Apparatus for extracting liquid from. D. Gessner. No. 996,637; July 4; Sp. p. 89; Gaz. vol. 168; p. 16.
Cloth-carrying machine. S. Hardy. No. 986,822; Mar. 14; Sp. p. 2263; Gaz. vol. 164; p. 392.
Cloth-clamp for textile machinery. J. J. Hoey. No. 999,223; Aug. 1; Sp. p. 63; Gaz. vol. 169; p. 13.
Cloth cleaner, Bolting-. D. B. Johnson. No. 1,002,584; Sept. 5; Sp. p. 900; Gaz. vol. 170; p. 133.
Cloth-cutting gage. D. L. Baumgarten. No. 997,229; July 4; Sp. p. 1328; Gaz. vol. 168; p. 217.
Cloth-cutting machine. M. Wolff. No. 997,170; July 4; Sp. p. 1213; Gaz. vol. 168; p. 196.

Alphabetical list of inventions—Continued.

Cloth-cutting machine. H. Maimin. No. 1,003,281; Sept. 12; Sp. p. 2408; Gaz. vol. 170; p. 414.
Cloth-cutting machine. H. Maimin. No. 1,004,285; Sept. 26; Sp. p. 4634; Gaz. vol. 170; p. 820.
Cloth-cutting machine. J. Goodelman. No. 1,011,185; Dec. 12; Sp. p. 1768; Gaz. vol. 173; p. 308.
Cloth-drying apparatus. E. B. Davis. No. 981,621; Jan. 17; Sp. p. 3251; Gaz. vol. 162; p. 552.
Cloth, Licker-in. L. Stocker. No. 1,007,900; Nov. 7; Sp. p. 573; Gaz. vol. 172; p. 89.
Cloth-finishing machines, Detector device for. I. Longden. No. 1,012,379; Dec. 19; Sp. p. 4432; Gaz. vol. 173; p. 759.
Cloth-piler. R. R. Atmore. No. 993,943; May 30; Sp. p. 6668; Gaz. vol. 166; p. 1200.
Cloth-piling machine. M. L. and C. M. Shapera. No. 1,002,459; Sept. 5; Sp. p. 635; Gaz. vol. 170; p. 91.
Cloth pressing and finishing iron. R. W. Hull. No. 1,001,594; Aug. 22; Sp. p. 5099; Gaz. vol. 169; p. 918.
Cloth-pressing machine. T. D. Palmer. No. 1,007,137; Oct. 31; Sp. p. 5702; Gaz. vol. 171; p. 1046.
Cloth-pressing machine. A. Baldwin, Sr. No. 1,007,666; Nov. 7; Sp. p. 13; Gaz. vol. 172; p. 5.
Cloth rolling and measuring apparatus. S. J. Fish. No. 1,009,730; Nov. 28; Sp. p. 4649; Gaz. vol. 172; p. 845.
Cloth-sample holder. G. H. Tegmeier. No. 1,007,403; Oct. 31; Sp. p. 6266; Gaz. vol. 171; p. 1140.
Cloth sponging and finishing machines, Steam-cylinder for. R. W. Hull. No. 980,268; Jan. 3; Sp. p. 166; Gaz. vol. 162; p. 33.
Cloth spreader and guider. A. Birch. No. 992,703; May 16; Sp. p. 4002; Gaz. vol. 166; p. 714.
Cloth-stretching machine. S. Birch. No. 1,005,801; Oct. 17; Sp. p. 2688; Gaz. vol. 171; p. 493.
Cloth to stentering and other machines, Apparatus for feeding and guiding. J. Kay. No. 1,002,156; Aug. 29; Sp. p. 6283; Gaz. vol. 169; p. 1136.
Cloth to stentering and other machines, Apparatus for feeding and guiding. J. Kay. No. 1,002,204; Aug. 29; Sp. p. 6400; Gaz. vol. 169; p. 1153.
Cloth-treating apparatus. D. Gessner. No. 988,703; Apr. 4; Sp. p. 894; Gaz. vol. 165; p. 142.
Cloth-treating apparatus. D. Gessner. No. 994,075; May 30; Sp. p. 6928; Gaz. vol. 166; p. 1244.
Cloth-treating apparatus. J. A. Butler. No. 994,245; June 6; Sp. p. 299; Gaz. vol. 167; p. 51.
Cloth with a simulated metallic surface, Forming. F. A. Price. No. 995,289; June 13; Sp. p. 2562; Gaz. vol. 167; p. 444.
Clothes basket and drainer. P. Weens. No. 1,007,165; Oct. 31; Sp. p. 5769; Gaz. vol. 171; p. 1055.
Clothes-clamp. J. W. Finch. No. 991,290; May 2; Sp. p. 992; Gaz. vol. 166; p. 167.
Clothes-draining attachment for washboilers. W. F. Padden. No. 1,002,304; Sept. 5; Sp. p. 269; Gaz. vol. 170; p. 37.
Clothes-drier. G. B. Willard. No. 985,485; Feb. 28; Sp. p. 4855; Gaz. vol. 163; p. 862.
Clothes-drier. M. Herscovitz. No. 986,711; Mar. 14; Sp. p. 2024; Gaz. vol. 164; p. 355.
Clothes-drier. W. L. Cummer. No. 986,804; Mar. 14; Sp. p. 2223; Gaz. vol. 164; p. 386.
Clothes-drier. G. R. Howell. No. 991,619; May 9; Sp. p. 1705; Gaz. vol. 166; p. 313.
Clothes-drier. G. M. Svojse. No. 992,923; May 23; Sp. p. 4490; Gaz. vol. 166; p. 823.
Clothes-drier. M. Herscovitz. No. 1,008,905; Nov. 14; Sp. p. 2843; Gaz. vol. 172; p. 478.
Clothes-drying frame. J. W. Horner. No. 1,003,744; Sept. 19; Sp. p. 3403; Gaz. vol. 170; p. 607.
Clothes-hangers, Supporting device for. H. T. V. Perry. No. 995,805; June 20; Sp. p. 3748; Gaz. vol. 167; p. 653.
Clothes-holding device. C. E. Jackson. No. 989,607; Apr. 18; Sp. p. 2829; Gaz. vol. 165; p. 500.
Clothes-line. W. F. Welty. No. 995,506; June 20; Sp. p. 3070; Gaz. vol. 167; p. 547.
Clothes-line. W. O. Walston. No. 1,000,218; Aug. 8; Sp. p. 2133; Gaz. vol. 169; p. 379.
Clothes-line. T. H. Lindner. No. 1,005,047; Oct. 3; Sp. p. 1041; Gaz. vol. 171; p. 174.
Clothes-line adjuster. D. W. Rantine. No. 987,015; Mar. 14; Sp. p. 2641; Gaz. vol. 164; p. 456.
Clothes-line and merry-go-round, Revolving. J. A. Carroll. No. 1,005,597; Oct. 10; Sp. p. 2271; Gaz. vol. 171; p. 391.
Clothes-line and prop, Combined. H. U. Scott. No. 1,012,454; Dec. 19; Sp. p. 4573; Gaz. vol. 173; p. 783.
Clothes-line clamp. W. C. Lea. No. 1,000,927; Aug. 15; Sp. p. 3676; Gaz. vol. 169; p. 660.
Clothes-line clamp and regulator. J. Michitsch. No. 1,004,890; Oct. 3; Sp. p. 760; Gaz. vol. 171; p. 122.
Clothes-line fastener. P. Schmidt. No. 989,728; Apr. 18; Sp. p. 3071; Gaz. vol. 165; p. 541.
Clothes-line fastener. R. L. Freeman. No. 995,127; June 13; Sp. p. 2245; Gaz. vol. 167; p. 391.
Clothes-line fastener. J. Ballul. No. 1,012,587; Dec. 26; Sp. p. 4857; Gaz. vol. 173; p. 875.
Clothes-line, Pinless. J. S. Styles. No. 1,009,700; Nov. 21; Sp. p. 4569; Gaz. vol. 172; p. 787.
Clothes-line post. T. Benningfield. No. 992,842; May 23; Sp. p. 4307; Gaz. vol. 166; p. 794.
Clothes-line prop. C. E. Robinson. No. 985,552; Feb. 28; Sp. p. 4999; Gaz. vol. 163; p. 884.
Clothes-line prop. W. E. Knoder. No. 989,368; Apr. 11; Sp. p. 2285; Gaz. vol. 165; p. 386.
Clothes-line-prop attachment. W. H. Billings. No. 980,915; Jan. 10; Sp. p. 1636; Gaz. vol. 162; p. 283.
Clothes-line reel. H. Otto. No. 985,199; Feb. 28; Sp. p. 4198; Gaz. vol. 163; p. 764.
Clothes-line reel. C. H. Roderick. No. 993,409; May 30; Sp. p. 5525; Gaz. vol. 166; p. 1017.
Clothes-line reel. J. H. Millett. No. 999,580; Aug. 1; Sp. p. 765; Gaz. vol. 169; p. 133.
Clothes-line reel. J. C. Doust. No. 1,004,753; Oct. 3; Sp. p. 443; Gaz. vol. 171; p. 74.
Clothes-line support. B. F. Hiatt. No. 986,983; Mar. 14; Sp. p. 2576; Gaz. vol. 164; p. 446.
Clothes-line support. C. Weiner. No. 998,061; July 18; Sp. p. 3170; Gaz. vol. 168; p. 575.
Clothes-line support. O. C. Pennington. No. 1,000,840; Aug. 15; Sp. p. 3501; Gaz. vol. 169; p. 630.
Clothes-line support. M. Horwitz. No. 1,002,402; Sept. 5; Sp. p. 515; Gaz. vol. 170; p. 72.
Clothes-line support. C. Connolley. No. 1,008,013; Nov. 7; Sp. p. 796; Gaz. vol. 172; p. 126.
Clothes-line support. E. E. Squire. No. 1,011,514; Dec. 12; Sp. p. 2506; Gaz. vol. 173; p. 426.
Clothes-line support. M. Schenkein. No. 1,012,019; Dec. 19; Sp. p. 3650; Gaz. vol. 173; p. 637.
Clothes-line tightener. D. W. Rantine. No. 984,604; Feb. 21; Sp. p. 2947; Gaz. vol. 163; p. 523.
Clothes-line wiper. H. Otto. No. 985,200; Feb. 28; Sp. p. 4199; Gaz. vol. 163; p. 764.
Clothes-lines, Machine for making pinless. J. S. Styles. No. 999,131; July 25; Sp. p. 5529; Gaz. vol. 168; p. 983.
Clothes-pin. J. G. Hilton. No. 984,219; Feb. 14; Sp. p. 2107; Gaz. vol. 163; p. 358.
Clothes-pin. O. McShane. No. 985,615; Feb. 28; Sp. p. 5123; Gaz. vol. 163; p. 906.
Clothes-pin. J. Erwin. No. 987,288; Mar. 21; Sp. p. 3233; Gaz. vol. 164; p. 583.
Clothes-pin. W. P. Sims. No. 995,298; June 13; Sp. p. 2579; Gaz. vol. 167; p. 447.
Clothes-pin. J. M. Williams. No. 1,003,842; Sept. 19; Sp. p. 3589; Gaz. vol. 170; p. 638.
Clothes-pin bag. H. L. Franke. No. 1,005,014; Oct. 3; Sp. p. 975; Gaz. vol. 171; p. 163.
Clothes-pounder. J. L. Carder. No. 980,199; Jan. 3; Sp. p. 40; Gaz. vol. 162; p. 10.
Clothes-pounder. H. A. Forkner. No. 1,005,950; Oct. 17; Sp. p. 3039; Gaz. vol. 171; p. 547.
Clothes-pressing tool. T. M. House. No. 984,673; Feb. 21; Sp. p. 3083; Gaz. vol. 163; p. 546.
Clothes-rack. D. C. Ross. No. 986,087; Mar. 7; Sp. p. 706; Gaz. vol. 164; p. 113.
Clothes-rack. J. L. Wilson. No. 986,788; Mar. 14; Sp. p. 2182; Gaz. vol. 164; p. 380.
Clothes-rack. G. B. Deacon. No. 993,039; May 23; Sp. p. 4742; Gaz. vol. 166; p. 863.
Clothes-rack. T. A. North. No. 1,000,933; Aug. 15; Sp. p. 3692; Gaz. vol. 169; p. 662.
Clothes-rack. G. W. McGee. No. 1,005,053; Oct. 3; Sp. p. 1051; Gaz. vol. 171; p. 176.
Clothes rack and drier. A. Buntenbach. No. 1,004,983; Oct. 3; Sp. p. 921; Gaz. vol. 171; p. 152.
Clothes-rack, Collapsible. E. Nelson. No. 984,591; Feb. 21; Sp. p. 2916; Gaz. vol. 163; p. 518.
Clothes-receptacle. I. A. Boeddener. No. 990,626; Apr. 25; Sp. p. 5064; Gaz. vol. 165; p. 882.
Clothes-reel. F. S. E. Gehrke. No. 984,556; Feb. 21; Sp. p. 2842; Gaz. vol. 163; p. 506.
Clothes-sprinkler. A. Gustaveson. No. 996,484; June 27; Sp. p. 5256; Gaz. vol. 167; p. 922.
Clothes-sprinkler. A. L. Connelly. No. 997,242; July 4; Sp. p. 1353; Gaz. vol. 168; p. 221.
Clothes-stick. J. C. Sangers. No. 990,908; May 2; Sp. p. 167; Gaz. vol. 166; p. 31.
Clothes-tree, Folding. R. Wendt. No. 983,589; Feb. 7; Sp. p. 728; Gaz. vol. 163; p. 114.
Clothes-washer. P. Hanson. No. 995,346; June 13; Sp. p. 2707; Gaz. vol. 167; p. 463.
Clothes-wringer. L. C. Smith. No. 992,076; May 9; Sp. p. 2617; Gaz. vol. 166; p. 466.
Clothes-wringer. L. M. Morgan. No. 1,004,295; Sept. 26; Sp. p. 4653; Gaz. vol. 170; p. 824.
Clothes-wringer. G. A. Paddock. No. 1,007,964; Nov. 7; Sp. p. 710; Gaz. vol. 172; p. 110.
Clothes-wringer. G. A. Paddock. No. 1,007,965; Nov. 7; Sp. p. 712; Gaz. vol. 172; p. 111.
Clothes-wringer. G. A. Paddock. No. 1,007,966; Nov. 7; Sp. p. 713; Gaz. vol. 172; p. 111.
Clothes wringer and mangle. G. H. Jantz. No. 1,004,271; Sept. 26; Sp. p. 4609; Gaz. vol. 170; p. 815.
Clover-feeder. J. A. White. No. 993,213; May 23; Sp. p. 5105; Gaz. vol. 166; p. 920.
Cluster-mountings and blanks for same, Making. H. Levin. No. 983,504; Feb. 7; Sp. p. 531; Gaz. vol. 163; p. 85.
Cluster-socket. J. H. Dale. No. 993,762; May 30; Sp. p. 6317; Gaz. vol. 166; p. 1139.
Cluster-socket. J. C. Tournier. No. 1,010,465; Dec. 5; Sp. p. 131; Gaz. vol. 173; p. 24.

Clutch. H. W. Winter. No. 981,345; Jan. 10; Sp. p. 2687; Gaz. vol. 162; p. 436.
Clutch. F. C. Sanford. No. 981,885; Jan. 17; Sp. p. 3798; Gaz. vol. 162; p. 642.
Clutch. F. S. Ellett. No. 982,042; Jan. 17; Sp. p. 4186; Gaz. vol. 162; p. 697.
Clutch. N. E. Heston. No. 982,605; Jan. 24; Sp. p. 5342; Gaz. vol. 162; p. 920.
Clutch. I. T. Martin and W. L. Jones. No. 985,046; Feb. 21; Sp. p. 3832; Gaz. vol. 163; p. 676.
Clutch. J. M. Sailer. No. 985,286; Feb. 28; Sp. p. 4406; Gaz. vol. 163; p. 793.
Clutch. J. E. Beckman. No. 985,723; Feb. 28; Sp. p. 5378; Gaz. vol. 163; p. 942.
Clutch. H. Knapp. No. 986,923; Mar. 14; Sp. p. 2473; Gaz. vol. 164; p. 428.
Clutch. C. C. Rich. No. 988,817; Apr. 4; Sp. p. 1125; Gaz. vol. 165; p. 179.
Clutch. B. M. W. Hanson. No. 989,007; Apr. 11; Sp. p. 1506; Gaz. vol. 165; p. 264.
Clutch. H. G. Saecker. No. 990,906; May 2; Sp. p. 162; Gaz. vol. 166; p. 30.
Clutch. J. Craig. No. 991,832; May 9; Sp. p. 2157; Gaz. vol. 166; p. 384.
Clutch. G. P. Salisbury. No. 992,451; May 16; Sp. p. 3484; Gaz. vol. 166; p. 627.
Clutch. J. P. Brophy. No. 992,938; May 23; Sp. p. 4529; Gaz. vol. 166; p. 828.
Clutch. H. J. Wells. No. 993,007; May 23; Sp. p. 4671; Gaz. vol. 166; p. 852.
Clutch. G. E. Faile. No. 994,379; June 6; Sp. p. 583; Gaz. vol. 167; p. 100.
Clutch. W. H. Swartz. No. 995,043; June 13; Sp. p. 2083; Gaz. vol. 167; p. 363.
Clutch. C. C. Rich. (Reissue.) No. 13,260; June 20; Sp. p. 4236; Gaz. vol. 167; p. 736.
Clutch. J. Huneke. No. 998,615; July 25; Sp. p. 4383; Gaz. vol. 168; p. 803.
Clutch. H. G. Beede and E. C. Williams. No. 999,088; July 25; Sp. p. 5453; Gaz. vol. 168; p. 970.
Clutch. M. W. Thompson. No. 1,001,708; Aug. 29; Sp. p. 5363; Gaz. vol. 169; p. 989.
Clutch. W. H. Lanning, Jr. No. 1,002,853; Sept. 12; Sp. p. 1489; Gaz. vol. 170; p. 264.
Clutch. L. A. Casgrain. No. 1,004,240; Sept. 26; Sp. p. 4554; Gaz. vol. 170; p. 805.
Clutch. B. H. Penn. No. 1,007,139; Oct. 31; Sp. p. 5707; Gaz. vol. 171; p. 1047.
Clutch. E. H. Carroll. No. 1,007,335; Oct. 31; Sp. p. 6123; Gaz. vol. 171; p. 1117.
Clutch. E. T. Robinson. No. 1,007,977; Nov. 7; Sp. p. 731; Gaz. vol. 172; p. 114.
Clutch. G. W. Morris. No. 1,008,355; Nov. 14; Sp. p. 1578; Gaz. vol. 172; p. 287.
Clutch. F. A. Law. No. 1,009,424; Nov. 21; Sp. p. 4042; Gaz. vol. 172; p. 697.
Clutch. J. G. Utz. No. 1,009,702; Nov. 21; Sp. p. 4571; Gaz. vol. 172; p. 788.
Clutch. C. H. Norton. No. 1,009,990; Nov. 28; Sp. p. 5183; Gaz. vol. 172; p. 931.
Clutch. R. H. Dolph. No. 1,010,128; Nov. 28; Sp. p. 5470; Gaz. vol. 172; p. 980.
Clutch. J. B. Herndon. No. 1,010,366; Nov. 28; Sp. p. 5946; Gaz. vol. 172; p. 1057.
Clutch. F. Palmiter. No. 1,010,682; Dec. 5; Sp. p. 619; Gaz. vol. 173; p. 99.
Clutch. M. D. Meek. No. 1,010,935; Dec. 5; Sp. p. 1193; Gaz. vol. 173; p. 187.
Clutch. A. Bates. No. 1,011,903; Dec. 19; Sp. p. 3389; Gaz. vol. 173; p. 594.
Clutch-actuating mechanism. D. P. Collins. No. 986,363; Mar. 7; Sp. p. 1273; Gaz. vol. 164; p. 206.
Clutch and shifting mechanism therefor. E. T. Robinson. No. 1,008,069; Nov. 7; Sp. p. 911; Gaz. vol. 172; p. 146.
Clutch, Automatic. W. Klocke. No. 991,785; May 9; Sp. p. 2040; Gaz. vol. 166; p. 367.
Clutch, Automatic. W. Klocke and J. E. Dobson. No. 991,786; May 9; Sp. p. 2043; Gaz. vol. 166; p. 368.
Clutch, Ball and roller. T. E. Buschmann. No. 993,025; May 23; Sp. p. 4714; Gaz. vol. 166; p. 858.
Clutch, Band-. R. Huff. No. 998,516; July 18; Sp. p. 4161; Gaz. vol. 168; p. 736.
Clutch, Controller-. E. H. West. No. 988,234; Mar. 28; Sp. p. 5257; Gaz. vol. 164; p. 932.
Clutch device. J. P. Coleman. No. 1,003,339; Sept. 12; Sp. p. 2527; Gaz. vol. 170; p. 435.
Clutch-disk. C. E. Cox. No. 991,482; May 9; Sp. p. 1397; Gaz. vol. 166; p. 263.
Clutch, Double friction-. P. Daimler. No. 996,318; June 27; Sp. p. 4891; Gaz. vol. 167; p. 862.
Clutch, Double-shoe expansion-. M. Kessler. No. 998,694; July 25; Sp. p. 4561; Gaz. vol. 168; p. 831.
Clutch, Fluid-. A. F. Hall and G. Cuthbert. No. 996,925; July 4; Sp. p. 674; Gaz. vol. 168; p. 111.
Clutch, Fluid-operated. E. Bivert. No. 990,188; Apr. 18; Sp. p. 4055; Gaz. vol. 165; p. 697.
Clutch, Fluid-operated safety-. W. A. Gordon. No. 998,499; July 18; Sp. p. 4122; Gaz. vol. 168; p. 731.
Clutch for paper-rolls. D. Hunter. No. 999,191; July 25; Sp. p. 5634; Gaz. vol. 168; p. 1002.
Clutch for power-presses. J. J. Flynn. No. 991,775; May 9; Sp. p. 2020; Gaz. vol. 166; p. 364.
Clutch for punch-presses. G. Kurschus. No. 1,012,657; Dec. 26; Sp. p. 5008; Gaz. vol. 173; p. 899.
Clutch for reversing-gearing. E. J. Patterson. No. 1,011,481; Dec. 12; Sp. p. 2434; Gaz. vol. 173; p. 415.
Clutch for transmission-pulleys. B. W. Bean. No. 999,948; Aug. 8; Sp. p. 1517; Gaz. vol. 169; p. 287.
Clutch, Friction-. E. E. Porter. No. 981,000; Jan. 10; Sp. p. 1892; Gaz. vol. 162; p. 313.
Clutch, Friction-. P. B. Marfield. No. 981,295; Jan. 10; Sp. p. 2565; Gaz. vol. 162; p. 418.
Clutch, Friction-. J. W. Dearborn. No. 981,389; Jan. 10; Sp. p. 2769; Gaz. vol. 162; p. 450.
Clutch, Friction-. J. A. Friddle. No. 983,433; Feb. 7; Sp. p. 370; Gaz. vol. 163; p. 61.
Clutch, Friction-. J. E. Gilson. No. 984,209; Feb. 14; Sp. p. 2090; Gaz. vol. 163; p. 354.
Clutch, Friction-. H. F. Evers. No. 988,987; Apr. 11; Sp. p. 1467; Gaz. vol. 165; p. 257.
Clutch, Friction-. H. D. Baldridge. No. 991,817; May 9; Sp. p. 2127; Gaz. vol. 166; p. 379.
Clutch, Friction-. C. T. Fletcher. No. 994,141; June 6; Sp. p. 77; Gaz. vol. 167; p. 15.
Clutch, Friction-. D. E. Frey. No. 994,737; June 13; Sp. p. 1401; Gaz. vol. 167; p. 260.
Clutch, Friction-. P. Daimler. No. 996,319; June 27; Sp. p. 4892; Gaz. vol. 167; p. 863.
Clutch, Friction-. A. Master. No. 997,073; July 4; Sp. p. 1019; Gaz. vol. 168; p. 163.
Clutch, Friction-. J. W. Denmead. No. 999,016; July 25; Sp. p. 5313; Gaz. vol. 168; p. 945.
Clutch, Friction-. F. H. Ogden. No. 1,001,432; Aug. 22; Sp. p. 4799; Gaz. vol. 169; p. 864.
Clutch, Friction-. W. C. Lipe. No. 1,004,047; Sept. 26; Sp. p. 4107; Gaz. vol. 170; p. 738.
Clutch, Friction-. E. B. Peterson. No. 1,006,500; Oct. 24; Sp. p. 4290; Gaz. vol. 171; p. 769.
Clutch, Friction-. R. Pinder. No. 1,007,310; Oct. 31; Sp. p. 6066; Gaz. vol. 171; p. 1107.
Clutch, Friction-. E. B. Cushman. No. 1,008,309; Nov. 14; Sp. p. 1483; Gaz. vol. 172; p. 272.
Clutch, Friction-. C. M. L. Moseson. No. 1,008,428; Nov. 14; Sp. p. 1802; Gaz. vol. 172; p. 313.
Clutch, Friction-. J. C. Brewin. No. 1,008,945; Nov. 14; Sp. p. 2938; Gaz. vol. 172; p. 490.
Clutch, Friction-. G. F. Fowler. No. 1,009,836; Nov. 28; Sp. p. 4880; Gaz. vol. 172; p. 881.
Clutch, Friction-. J. J. Dennison. No. 1,011,040; Dec. 5; Sp. p. 1393; Gaz. vol. 173; p. 222.
Clutch, Friction-. H. W. Nichoalds. No. 1,011,834; Dec. 12; Sp. p. 3222; Gaz. vol. 173; p. 537.
Clutch, Friction-coil. F. R. Allen. No. 989,102; Apr. 11; Sp. p. 1702; Gaz. vol. 165; p. 297.
Clutch, Governor-controlled friction-. A. G. Hinz. No. 987,987; Mar. 28; Sp. p. 4774; Gaz. vol. 164; p. 851.
Clutch, Hydraulic. W. J. Vincent and J. V. Harrison. No. 980,368; Jan. 3; Sp. p. 381; Gaz. vol. 162; p. 68.
Clutch, Hydraulic. P. Cramer. No. 993,825; May 30; Sp. p. 6447; Gaz. vol. 166; p. 1161.
Clutch mechanism. J. M. Schoonmaker, Jr. No. 981,010; Jan. 10; Sp. p. 1918; Gaz. vol. 162; p. 318.
Clutch mechanism. H. H. Baer. No. 984,523; Feb. 21; Sp. p. 2771; Gaz. vol. 163; p. 495.
Clutch mechanism. F. E. Sutherland and J. A. Brown. No. 986,324; Mar. 7; Sp. p. 1180; Gaz. vol. 164; p. 191.
Clutch mechanism. C. Pearson. No. 989,037; Apr. 11; Sp. p. 1566; Gaz. vol. 165; p. 274.
Clutch mechanism. C. Muehleisen. No. 992,033; May 9; Sp. p. 2535; Gaz. vol. 166; p. 451.
Clutch mechanism. H. A. Waterman. No. 995,828; June 20; Sp. p. 3798; Gaz. vol. 167; p. 661.
Clutch mechanism. A. E. Buchanan. No. 1,003,979; Sept. 26; Sp. p. 3931; Gaz. vol. 170; p. 714.
Clutch mechanism. F. A. Thurston. No. 1,004,940; Oct. 3; Sp. p. 846; Gaz. vol. 171; p. 137.
Clutch mechanism. J. E. Gohn, Jr. No. 1,011,426; Dec. 12; Sp. p. 2298; Gaz. vol. 173; p. 393.
Clutch mechanism. H. Cooper. No. 1,012,819; Dec. 26; Sp. p. 5389; Gaz. vol. 173; p. 956.
Clutch mechanism for agricultural implements. L. Willis. No. 981,343; Jan. 10; Sp. p. 2684; Gaz. vol. 162; p. 435.
Clutch mechanism for drawing-presses and the like. B. Adriance and A. Calleson. No. 984,253; Feb. 14; Sp. p. 2178; Gaz. vol. 163; p. 370.
Clutch mechanism for winding or hauling engines. H. C. Behr. No. 1,012,188; Dec. 19; Sp. p. 4034; Gaz. vol. 173; p. 695.
Clutch mechanism, Friction-. G. A. Schacht. No. 986,947; Mar. 14; Sp. p. 2521; Gaz. vol. 164; p. 435.
Clutch mechanism, Hydraulic feed-. S. H. Keefer. No. 986,830; Mar. 14; Sp. p. 2281; Gaz. vol. 164; p. 395.
Clutch members, Leather-covering conical. E. W. Sikes. No. 992,815; May 23; Sp. p. 4248; Gaz. vol. 166; p. 784.
Clutch, Multiple-disk. A. P. Brush. No. 987,954; Mar. 28; Sp. p. 4700; Gaz. vol. 164; p. 840.
Clutch-operating means. E. Garceau. No. 985,795; Mar. 7; Sp. p. 58; Gaz. vol. 164; p. 13.
Clutch-operating mechanism. F. Kilian. No. 983,624; Feb. 7; Sp. p. 790; Gaz. vol. 163; p. 126.

Alphabetical list of inventions—Continued.

Clutch or clutch-pulley, Rope-. J. M. Boyd. No. 981,525; Jan. 10; Sp. p. 3050; Gaz. vol. 162; p. 497.
Clutch, Pipe-lifting. R. Schopf. No. 992,070; May 9; Sp. p. 2609; Gaz. vol. 166; p. 464.
Clutch, Pneumatically-operated. A. V. Hannifin. No. 984,426; Feb. 14; Sp. p. 2524; Gaz. vol. 163; p. 427.
Clutch-regulator. P. M. Orlopp. No. 982,088; Jan. 17; Sp. p. 4276; Gaz. vol. 162; p. 712.
Clutch-shifting mechanism. F. B. Allen. No. 980,897; Jan. 10; Sp. p. 1577; Gaz. vol. 162; p. 277.
Clutch-shifting mechanism. F. B. Allen. No. 987,665; Mar. 21; Sp. p. 3998; Gaz. vol. 164; p. 712.
Clutch, Stump-puller. J. C. Williamson. No. 1,012,309; Dec. 19; Sp. p. 4294; Gaz. vol. 173; p. 737.
Clutch, Transmission friction-. E. C. Grizzell. No. 1,001,140; Aug. 22; Sp. p. 4196; Gaz. vol. 169; p. 768.
Clutches, Manufacturing pressed-steel cases for friction-. R. F. Collins. No. 990,340; Apr. 25; Sp. p. 4419; Gaz. vol. 165; p. 782.
Coal and ore washer or separator. J. M. Draper and C. Hamilton. No. 998,606; July 25; Sp. p. 4367; Gaz. vol. 168; p. 800.
Coal and similar substances, Jig for washing. B. Russell and E. Savage. No. 1,011,496; Dec. 12; Sp. p. 2463; Gaz. vol. 173; p. 420.
Coal and slate separator. C. W. Honabach. No. 983,283; Feb. 7; Sp. p. 54; Gaz. vol. 163; p. 11.
Coal-bins, Distributing-spout for. G. W. Freeland. No. 984,551; Feb. 21; Sp. p. 2831; Gaz. vol. 163; p. 505.
Coal-box, Family. T. Eberman. No. 988,932; Apr. 4; Sp. p. 1339; Gaz. vol. 165; p. 215.
Coal-breaker, Hydraulic. W. Pill. No. 991,017; May 2; Sp. p. 397; Gaz. vol. 166; p. 68.
Coal burner, Powdered-. A. D. Lee. No. 988,271; Mar. 28; Sp. p. 5333; Gaz. vol. 164; p. 943.
Coal crusher, Soft-. J. H. Wiestner. No. 984,406; Feb. 14; Sp. p. 2483; Gaz. vol. 163; p. 420.
Coal-cutting machine. L. Thomas. No. 993,474; May 30; Sp. p. 5676; Gaz. vol. 166; p. 1038.
Coal-dust feeder. J. W. Zell. No. 986,259; Mar. 7; Sp. p. 1052; Gaz. vol. 164; p. 169.
Coal-elevator. M. C. Volk. No. 983,584; Feb. 7; Sp. p. 719; Gaz. vol. 163; p. 112.
Coal handling and storing plant. G. E. Titcomb. No. 1,011,276; Dec. 12; Sp. p. 1990; Gaz. vol. 173; p. 342.
Coal-handling apparatus. G. E. Titcomb. No. 983,659; Feb. 7; Sp. p. 868; Gaz. vol. 163; p. 138.
Coal-hole-cover-locking device. J. Braun. No. 1,003,695; Sept. 19; Sp. p. 3303; Gaz. vol. 170; p. 591.
Coal-loading apparatus. H. J. Gilmore. No. 1,002,984; Sept. 12; Sp. p. 1789; Gaz. vol. 170; p. 310.
Coal of high activity, Manufacturing. F. Richter. No. 1,001,222; Aug. 22; Sp. p. 4355; Gaz. vol. 169; p. 793.
Coal separator and grader. J. L. Cox. No. 1,002,967; Sept. 12; Sp. p. 1753; Gaz. vol. 170; p. 304.
Coal-storing apparatus. J. M. Snead. No. 1,008,085; Nov. 7; Sp. p. 938; Gaz. vol. 172; p. 151.
Coal-tipples, Weighing-pan for. H. E. Miller. No. 998,918; July 25; Sp. p. 5077; Gaz. vol. 168; p. 911.
Coal-washing apparatus. J. Dodds. No. 998,163; July 18; Sp. p. 3385; Gaz. vol. 168; p. 611.
Coal-washing apparatus. J. A. Montgomery. No. 998,373; July 18; Sp. p. 3879; Gaz. vol. 168; p. 689.
Coal-washing jig. A. C. Hoecker. No. 994,160; June 6; Sp. p. 112; Gaz. vol. 167; p. 21.
Coal-washing jigger. T. H. O'Brien. No. 987,642; Mar. 21; Sp. p. 3947; Gaz. vol. 164; p. 703.
Coaling apparatus. Y. Ferrer. No. 990,969; May 2; Sp. p. 303; Gaz. vol. 166; p. 52.
Coaster and brake mechanism. W. Marx. No. 1,010,933; Dec. 5; Sp. p. 1189; Gaz. vol. 173; p. 186.
Coaster-brake. E. Epstein. No. 988,323; Apr. 4; Sp. p. 60; Gaz. vol. 165; p. 12.
Coaster-brake. G. Crawford. No. 992,340; May 16; Sp. p. 3266; Gaz. vol. 166; p. 589.
Coaster-brake. H. B. Lester. No. 993,385; May 30; Sp. p. 5478; Gaz. vol. 166; p. 1009.
Coaster-brake. L. V. Fulmer. No. 1,009,901; Nov. 28; Sp. p. 4995; Gaz. vol. 172; p. 902.
Coaster-brake and reversible counter-shaft. D. M. Keefe. No. 988,941; Apr. 4; Sp. p. 1363; Gaz. vol. 165; p. 218.
Coasters, Car for roller-. A. H. Sharkey. (Reissue.) No. 13,271; July 11; Sp. p. 2901; Gaz. vol. 168; p. 496.
Coasting device for purposes of amusement. L. N. Moss. No. 981,462; Jan. 10; Sp. p. 2937; Gaz. vol. 162; p. 476.
Coat, Adjustable. W. Padernacht. No. 1,010,679; Dec. 5; Sp. p. 614; Gaz. vol. 173; p. 98.
Coat attachment or hitch. J. R. Harris. No. 987,983; Mar. 28; Sp. p. 4768; Gaz. vol. 164; p. 850.
Coat-hanger. H. F. Ungerer and J. R. Van Tassel. No. 983,464; Feb. 7; Sp. p. 444; Gaz. vol. 163; p. 71.
Coat hanger or suspender. W. Wall. No. 1,010,709; Dec. 5; Sp. p. 677; Gaz. vol. 173; p. 109.
Coat hanging and displaying device. F. J. Martin. No. 1,011,463; Dec. 12; Sp. p. 2385; Gaz. vol. 173; p. 408.
Coat-stand. E. K. Nielsen. No. 983,392; Feb. 7; Sp. p. 292; Gaz. vol. 163; p. 49.
Coat, Storm-. W. S. Barker. No. 984,180; Feb. 14; Sp. p. 2000; Gaz. vol. 163; p. 343.
Coat, Storm-. W. S. Barker. No. 984,181; Feb. 14; Sp. p. 2002; Gaz. vol. 163; p. 344.
Coats, Magazine-pouch for hunting-. J. Parrett. No. 995,086; June 13; Sp. p. 2183; Gaz. vol. 167; p. 379.
Coated object and making the same. L. H. Baekeland. No. 982,230; Jan. 24; Sp. p. 4542; Gaz. vol. 162; p. 791.
Coating articles, Apparatus for. A. R. Hussey. No. 999,789; Aug. 8; Sp. p. 1178; Gaz. vol. 169; p. 232.
Coating composition, Wood-. C. Ellis. No. 1,005,623; Oct. 10; Sp. p. 2329; Gaz. vol. 171; p. 400.
Coating device, Liquid-. E. S. Parslow. No. 1,006,672; Oct. 24; Sp. p. 4662; Gaz. vol. 171; p. 831.
Coating fabrics and the like, Machine for. J. Meade. No. 980,315; Jan. 3; Sp. p. 258; Gaz. vol. 162; p. 48.
Coating for grinding-surfaces, Composition of matter to be used as a. C. A. Shultz. No. 1,011,504; Dec. 12; Sp. p. 2480; Gaz. vol. 173; p. 423.
Coating metal articles. U. S. Armstrong. No. 1,012,047; Dec. 19; Sp. p. 3716; Gaz. vol. 173; p. 647.
Coating metal articles. U. S. Armstrong. No. 1,012,048; Dec. 19; Sp. p. 3719; Gaz. vol. 173; p. 647.
Coating objects with subdivided material. F. F. Bradley. No. 988,243; Mar. 28; Sp. p. 5272; Gaz. vol. 164; p. 935.
Coating objects with subdivided material. F. F. Bradley. No. 997,436; July 11; Sp. p. 1741; Gaz. vol. 168; p. 316.
Coating objects with subdivided material, Apparatus for. F. F. Bradley. No. 988,303; Apr. 4; Sp. p. 15; Gaz. vol. 165; p. 5.
Coating objects with subdivided material, Apparatus for. G. L. Cragg. No. 988,978; Apr. 11; Sp. p. 1436; Gaz. vol. 165; p. 254.
Coating objects with subdivided material, Apparatus for. F. F. Bradley. No. 996,998; June 20; Sp. p. 4137; Gaz. vol. 167; p. 720.
Coating objects with subdivided material, Apparatus for. F. F. Bradley. No. 996,999; June 20; Sp. p. 4139; Gaz. vol. 167; p. 720.
Coating of wood, metal, or other material, Composition of matter for surface. F. D. Willey. No. 1,004,125; Sept. 26; Sp. p. 4304; Gaz. vol. 170; p. 766.
Coating, Protective and preservative. J. H. Morrell. No. 1,004,674; Oct. 3; Sp. p. 266; Gaz. vol. 171; p. 46.
Coatings of metal and collodion to paper, glass, and other materials, Applying. J. and B. Galay. No. 1,011,181; Dec. 12; Sp. p. 1760; Gaz. vol. 173; p. 307.
Cock and pipe-clamp, Combined angle-. W. Miller. No. 994,266; June 6; Sp. p. 342; Gaz. vol. 167; p. 58.
Cock, Angle-. V. P. Harvey. No. 1,012,132; Dec. 19; Sp. p. 3916; Gaz. vol. 173; p. 677.
Cock, Automatic safety gage-. J. L. Studds. No. 1,000,455; Aug. 15; Sp. p. 2649; Gaz. vol. 169; p. 492.
Cock, Ball-. O. H. Jones. No. 981,570; Jan. 10; Sp. p. 3142; Gaz. vol. 162; p. 512.
Cock, Ball-. T. W. Ryan. No. 986,866; Mar. 14; Sp. p. 2354; Gaz. vol. 164; p. 408.
Cock, Ball-. G. R. Yancey. No. 996,743; July 4; Sp. p. 285; Gaz. vol. 168; p. 50.
Cock, Ball-. G. O. Thompson. No. 1,012,029; Dec. 19; Sp. p. 3681; Gaz. vol. 173; p. 641.
Cock box, hydrant, and street-washer, Stop-. F. Chapman. No. 988,974; Apr. 11; Sp. p. 1431; Gaz. vol. 165; p. 253.
Cock box, Stop-. E. L. Walcott. No. 996,956; July 4; Sp. p. 744; Gaz. vol. 168; p. 122.
Cock box, Stop-. T. G. Paradine. No. 997,412; July 11; Sp. p. 1697; Gaz. vol. 168; p. 308.
Cock, Combined gas and water. A. E. Brion and F. C. Sanford. No. 992,332; May 16; Sp. p. 3236; Gaz. vol. 166; p. 587.
Cock, Compression and waste. S. A. Kinsey, Jr. No. 1,006,565; Oct. 24; Sp. p. 4450; Gaz. vol. 171; p. 794.
Cock, Cylinder bleed-. J. T. Van Norman and G. A. Baxter. No. 1,011,531; Dec. 12; Sp. p. 2551; Gaz. vol. 173; p. 432.
Cock, Draft-. B. Krall. No. 999,041; July 25; Sp. p. 5364; Gaz. vol. 168; p. 955.
Cock for liquid-containers, Spring-controlled draw-off. J. Kreibich. No. 986,070; Mar. 7; Sp. p. 673; Gaz. vol. 164; p. 108.
Cock, Four-way. A. B. Anderson. No. 987,939; Mar. 28; Sp. p. 4661; Gaz. vol. 164; p. 835.
Cock, Four-way. R. Jacobsen. No. 1,005,549; Oct. 10; Sp. p. 2134; Gaz. vol. 171; p. 374.
Cock, Gage-. P. J. Williams. No. 990,690; Apr. 25; Sp. p. 5234; Gaz. vol. 165; p. 903.
Cock, Gage-. J. E. Austin. No. 1,006,520; Oct. 24; Sp. p. 4325; Gaz. vol. 171; p. 776.
Cock, Gage-. C. A. Tanner and A. P. Saxer. No. 1,011,093; Dec. 5; Sp. p. 1525; Gaz. vol. 173; p. 241.
Cock, Gage-glass. C. F. Fernald. No. 993,232; May 23; Sp. p. 5135; Gaz. vol. 166; p. 925.
Cock, Gas-. H. S. Hipwell. No. 993,372; May 30; Sp. p. 5457; Gaz. vol. 166; p. 1005.
Cock hose-fastener, Water-. F. A. Ferguson. No. 1,012,345; Dec. 19; Sp. p. 4373; Gaz. vol. 173; p. 749.
Cock, Hot and cold water. D. W. McNeil. No. 990,894; May 2; Sp. p. 142; Gaz. vol. 166; p. 26.
Cock, Iron-body. P. Mueller. No. 1,002,428; Sept. 5; Sp. p. 571; Gaz. vol. 170; p. 81.
Cock, Lock-. J. Schneible. No. 983,842; Feb. 7; Sp. p. 1259; Gaz. vol. 163; p. 201.
Cock-operating mechanism, Cylinder-drain-. C. L. Heisler. No. 989,009; Apr. 11; Sp. p. 1511; Gaz. vol. 165; p. 265.

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Cock or faucet. H. Mueller. No. 982,981; Jan. 31; Sp. p. 6156; Gaz. vol. 162; p. 1075.
Cock or valve for vacuum pipe systems, Stop-. O. Schaller. No. 1,003,068; Sept. 12; Sp. p. 1945; Gaz. vol. 170; p. 336.
Cock, Safety-. J. Holtzman. No. 1,010,912; Dec. 5; Sp. p. 1141; Gaz. vol. 173; p. 180.
Cock, Safety gas-. L. Popp. No. 993,714; May 30; Sp. p. 6215; Gaz. vol. 166; p. 1123.
Cock, Safety train-air-line cut-out. G. C. Gale. No. 980,624; Jan. 3; Sp. p. 956; Gaz. vol. 162; p. 156.
Cock, Self-closing. F. F. Lecuyer. No. 1,002,591; Sept. 5; Sp. p. 914; Gaz. vol. 170; p. 136.
Cock, Self-closing basin-. H. Mueller and A. C. Schuermann. No. 1,009,681; Nov. 21; Sp. p. 4532; Gaz. vol. 172; p. 780.
Cock, Stop-. M. S. Hollis. No. 992,502; May 16; Sp. p. 3596; Gaz. vol. 166; p. 645.
Cock, Stop-. Y. Sakai. No. 1,001,455; Aug. 22; Sp. p. 4836; Gaz. vol. 169; p. 872.
Cock, Stop and waste. J. M. Beggs. No. 994,110; June 6; Sp. p. 12; Gaz. vol. 167; p. 5.
Cock, Testing or priming. B. Morgan. No. 982,009; Jan. 17; Sp. p. 4115; Gaz. vol. 162; p. 686.
Cocks and electric-light switches, Apparatus for controlling gas-. B. Scheidemann. No. 1,007,894; Nov. 7; Sp. p. 560; Gaz. vol. 172; p. 86.
Cocks or the like. Time actuating device for gas-. E. Barber. No. 992,537; May 16; Sp. p. 3675; Gaz. vol. 166; p. 658.
Cockeye rotatable barrier-plate. C. H. Noyes. No. 988,494; Apr. 4; Sp. p. 430; Gaz. vol. 165; p. 70.
Cockroach-trap. A. A. Borkenhagen. No. 1,000,368; Aug. 15; Sp. p. 2466; Gaz. vol. 169; p. 461.
Cocoa-powder and cocoa-butter, Producing. H. E. Cooke, Jr. No. 1,006,913; Oct. 24; Sp. p. 5206; Gaz. vol. 171; p. 915.
Cocoa-powder, Producing. F. E. F. Neumann. No. 998,113; July 18; Sp. p. 3296; Gaz. vol. 168; p. 594.
Cocoa, Purifying. L. Greiser. No. 1,004,870; Oct. 3; Sp. p. 700; Gaz. vol. 171; p. 114.
Code, Cable or telegraph. M. E. Sweeney. No. 990,021; Apr. 18; Sp. p. 3705; Gaz. vol. 165; p. 642.
Code-changing system. H. W. Bodwell. No. 998,833; July 25; Sp. p. 4887; Gaz. vol. 168; p. 880.
Code, Cipher-. W. Coyne and J. J. Raskob. No. 983,482; Feb. 7; Sp. p. 487; Gaz. vol. 163; p. 78.
Coffee, Ameliorating the taste of. H. Winter. No. 997,431; July 11; Sp. p. 1734; Gaz. vol. 168; p. 315.
Coffee-beans, Apparatus for treating. L. Klein. No. 1,006,760; Oct. 24; Sp. p. 4836; Gaz. vol. 171; p. 860.
Coffee-beans, Cleaning and refining. J. Thum. No. 982,902; Jan. 31; Sp. p. 5990; Gaz. vol. 162; p. 1050.
Coffee-beans, Decaffeinizing. K. H. Wimmer. No. 1,009,610; Nov. 21; Sp. p. 4402; Gaz. vol. 172; p. 759.
Coffee-beans, Machine for treating. M. Gerster and E. L. Hug. No. 1,007,093; Oct. 31; Sp. p. 5593; Gaz. vol. 171; p. 1028.
Coffee-cartridge. G. Brown. No. 1,010,721; Dec. 5; Sp. p. 714; Gaz. vol. 173; p. 113.
Coffee-chaff separator. F. F. Wear. No. 1,005,380; Oct. 10; Sp. p. 1762; Gaz. vol. 171; p. 314.
Coffee grinder and cleaner, Combined. F. F. Wear. No. 989,217; Apr. 11; Sp. p. 1943; Gaz. vol. 165; p. 336.
Coffee-machine. G. Hessdörfer. No. 1,007,200; Oct. 31; Sp. p. 5851; Gaz. vol. 171; p. 1068.
Coffee-machine. C. Nelson. No. 1,007,725; Nov. 7; Sp. p. 159; Gaz. vol. 172; p. 26.
Coffee-making apparatus. M. Bargalló. No. 1,003,317; Sept. 12; Sp. p. 2479; Gaz. vol. 170; p. 427.
Coffee-mill. E. M. Walker. No. 999,684; Aug. 1; Sp. p. 959; Gaz. vol. 169; p. 168.
Coffee-mill. E. J. Franck, W. Sommers, and L. Fritz. No. 1,011,603; Dec. 12; Sp. p. 2742; Gaz. vol. 173; p. 459.
Coffee or tea pot strainer. A. E. Walton. No. 987,516; Mar. 21; Sp. p. 3697; Gaz. vol. 164; p. 660.
Coffee-pot. H. A. Pike. No. 992,053; May 9; Sp. p. 2573; Gaz. vol. 166; p. 458.
Coffee-pot. M. Griswold, Jr. No. 1,000,513; Aug. 15; Sp. p. 2773; Gaz. vol. 169; p. 513.
Coffee-pot. W. H. Caley. No. 1,010,582; Dec. 5; Sp. p. 406; Gaz. vol. 173; p. 64.
Coffee-pot, Automatic. F. V. Brooks. No. 1,002,819; Sept. 12; Sp. p. 1410; Gaz. vol. 170; p. 251.
Coffee-pot, Collapsible. W. W. Irwin. No. 994,520; June 6; Sp. p. 857; Gaz. vol. 167; p. 144.
Coffee-pot, Reversible. E. Zimmerman. No. 1,001,496; Aug. 22; Sp. p. 4900; Gaz. vol. 169; p. 885.
Coffee-pots, Strainer or percolator attachment for. K. Mayer. No. 1,012,680; Dec. 26; Sp. p. 5047; Gaz. vol. 173; p. 906.
Coffee preparation. L. Roselius. No. 1,000,692; Aug. 15; Sp. p. 3195; Gaz. vol. 169; p. 578.
Coffee, Preparation or treatment of. J. F. Meyer, Jr., L. Roselius, and K. H. Wimmer. (Reissue.) No. 13,261; June 27; Sp. p. 5482; Gaz. vol. 167; p. 959.
Coffee, Preparation or treatment of. J. F. Meyer, Jr., L. Roselius, and K. H. Wimmer. (Reissue.) No. 13,262; June 27; Sp. p. 5484; Gaz. vol. 167; p. 959.
Coffee, Preparation or treatment of. J. F. Meyer, Jr., L. Roselius, and K. H. Wimmer. (Reissue.) No. 13,263; June 27; Sp. p. 5485; Gaz. vol. 167; p. 959.
Coffee-pulper. R. Bahmann. No. 991,413; May 2; Sp. p. 1250; Gaz. vol. 166; p. 209.
Coffee-purifier. G. Richie. No. 982,877; Jan. 31; Sp. p. 5941; Gaz. vol. 162; p. 1041.
Coffee-roaster, Electric. R. H. Talbutt. No. 1,012,293; Dec. 19; Sp. p. 4260; Gaz. vol. 173; p. 731.
Coffee substitutes, Apparatus for preparing. O. Gaebel. No. 995,956; June 20; Sp. p. 4057; Gaz. vol. 167; p. 706.
Coffee-tablet. L. B. G. Carreras. No. 1,002,137; Aug. 29; Sp. p. 6253; Gaz. vol. 169; p. 1131.
Coffee, Treating and roasting. E. M. Potter. No. 994,785; June 13; Sp. p. 1504; Gaz. vol. 167; p. 276.
Coffee-urn. L. S. Flatau. No. 983,130; Jan. 31; Sp. p. 6474; Gaz. vol. 162; p. 1125.
Coffee-urn. H. R. Hansen. No. 987,096; Mar. 14; Sp. p. 2782; Gaz. vol. 164; p. 481.
Coffin-lid support. H. J. Schmitt. No. 1,005,331; Oct. 10; Sp. p. 1664; Gaz. vol. 171; p. 297.
Coherer. W. E. D. Stokes, Jr. No. 985,854; Mar. 7; Sp. p. 200; Gaz. vol. 164; p. 33.
Coherer. E. J. Burke. No. 993,024; May 23; Sp. p. 4711; Gaz. vol. 166; p. 858.
Coil-forming machine. A. H. Wouters. No. 1,005,915; Oct. 17; Sp. p. 2946; Gaz. vol. 171; p. 534.
Coil-heater. A. H. Merrill. No. 990,763; Apr. 25; Sp. p. 5381; Gaz. vol. 165; p. 928.
Coil, Multiple-unit. E. C. Wilcox. No. 999,534; Aug. 1; Sp. p. 671; Gaz. vol. 169; p. 115.
Coil, Reactance-. W. O. Jacobi and C. Harris. No. 1,008,270; Nov. 7; Sp. p. 1340; Gaz. vol. 172; p. 219.
Coil retainer, Rotor-. A. J. Brown and R. B. Williamson. No. 981,057; Jan. 10; Sp. p. 2031; Gaz. vol. 162; p. 334.
Coil-retaining means. P. Kennedy and J. A. Misland. No. 980,286; Jan. 3; Sp. p. 202; Gaz. vol. 162; p. 39.
Coil-winder. P. Oswald. No. 1,002,435; Sept. 5; Sp. p. 580; Gaz. vol. 170; p. 83.
Coil-winding machine. C. L. Fortescue. No. 999,772; Aug. 8; Sp. p. 1142; Gaz. vol. 169; p. 227.
Coils and the like, Filler for. G. H. Rupley. No. 981,798; Jan. 17; Sp. p. 3604; Gaz. vol. 162; p. 612.
Coils, Treating. J. I. Mitchell. No. 1,010,444; Dec. 5; Sp. p. 80; Gaz. vol. 173; p. 16.
Coiler-head. O. L. Owen. No. 1,005,745; Oct. 10; Sp. p. 2569; Gaz. vol. 171; p. 442.
Coin-actuated mechanism. F. J. Rowse. No. 992,258; May 16; Sp. p. 3065; Gaz. vol. 166; p. 559.
Coin-actuated mechanism. C. S. Teeter and R. E. Bird. No. 1,011,272; Dec. 12; Sp. p. 1981; Gaz. vol. 173; p. 340.
Coin-assorter. D. Drawbaugh. No. 989,238; Apr. 11; Sp. p. 1993; Gaz. vol. 165; p. 343.
Coin-assorter. D. Drawbaugh. No. 989,522; Apr. 11; Sp. p. 2603; Gaz. vol. 165; p. 439.
Coin-controlled apparatus. W. S. Hendren. No. 991,984; May 9; Sp. p. 2453; Gaz. vol. 166; p. 436.
Coin-controlled apparatus. S. R. Beal and J. D. Crandell. No. 993,641; May 30; Sp. p. 6038; Gaz. vol. 166; p. 1097.
Coin-controlled apparatus. E. E. Claussen. No. 1,010,861; Dec. 5; Sp. p. 1034; Gaz. vol. 173; p. 161.
Coin-controlled apparatus. P. Varia. No. 1,012,941; Dec. 26; Sp. p. 5681; Gaz. vol. 173; p. 997.
Coin-controlled apparatus, Attachment for. P. J. Dreher. No. 1,010,741; Dec. 5; Sp. p. 767; Gaz. vol. 173; p. 120.
Coin-controlled chair. E. W. Allen. No. 988,059; Mar. 28; Sp. p. 4929; Gaz. vol. 164; p. 875.
Coin-controlled lock. W. S. Farnsworth. No. 985,989. Mar. 7; Sp. p. 512; Gaz. vol. 164; p. 81.
Coin-controlled lock. J. E. Phillips. No. 994,031; May 30; Sp. p. 6848; Gaz. vol. 166; p. 1229.
Coin-controlled lock. W. F. Kuster. No. 999,044; July 25; Sp. p. 5377; Gaz. vol. 168; p. 956.
Coin-controlled machine. C. G. Hassmann. No. 988,570; Apr. 4; Sp. p. 598; Gaz. vol. 165; p. 96.
Coin-controlled mechanism. R. H. Baker. No. 983,261; Feb. 7; Sp. p. 3; Gaz. vol. 163; p. 3.
Coin counting and packaging machine. J. J. Farrell. No. 981,403; Jan. 10; Sp. p. 2810; Gaz. vol. 162; p. 455.
Coin-deliverer. A. Sandvik. No. 983,088; Jan. 31; Sp. p. 6400; Gaz. vol. 162; p. 1112.
Coin-deliverer. T. Bilyeu, and W. S. Overlin. No. 985,136; Feb. 28; Sp. p. 4017; Gaz. vol. 163; p. 740.
Coin-delivering apparatus, Key-controlled. T. I. Potter. No. 1,011,845; Dec. 12; Sp. p. 3245; Gaz. vol. 173; p. 540.
Coin-ejecting apparatus. G. F. E. Henning. No. 998,898; July 25; Sp. p. 5034; Gaz. vol. 168; p. 904.
Coin-freed mechanism. C. E. Hibberd. No. 1,006,215; Oct. 17; Sp. p. 3636; Gaz. vol. 171; p. 640.
Coin-handling apparatus. A. J. Nott. No. 986,939; Mar. 14; Sp. p. 2499; Gaz. vol. 164; p. 433.
Coin-handling machine. C. S. Batdorf. No. 998,830; July 25; Sp. p. 4863; Gaz. vol. 168; p. 878.
Coin-holder. F. Vandervoort. No. 992,087; May 9; Sp. p. 2640; Gaz. vol. 166; p. 470.
Coin-holder. M. Burn. No. 1,010,346; Nov. 28; Sp. p. 5908; Gaz. vol. 172; p. 1052.

Alphabetical list of inventions—Continued.

Coin-holder or change-maker. J. W. Jones. No. 1,007,704; Nov. 7; Sp. p. 115; Gaz. vol. 172; p. 18.
Coin-packager. F. L. Sattley. No. 990,910; May 2; Sp. p. 171; Gaz. vol. 166; p. 32.
Coin-packaging device. W. D. Heer. No. 990,357; Apr. 25; Sp. p. 4451; Gaz. vol. 165; p. 787.
Coin-packaging machine. H. Altschul. No. 984,522; Feb. 21; Sp. p. 2766; Gaz. vol. 163; p. 495.
Coin-receiver and money-changer. B. R. White. No. 1,010,993; Dec. 5; Sp. p. 1303; Gaz. vol. 173; p. 207.
Coin-receptacle. S. Florsheim. No. 986,158; Mar. 7; Sp. p. 829; Gaz. vol. 164; p. 135.
Coin-receptacle. R. M. Jamison and E. Michaelis. No. 987,369; Mar. 21; Sp. p. 3400; Gaz. vol. 164; p. 610.
Coin-receptacle. W. H. Woolums. No. 999,288; Aug. 1; Sp. p. 180; Gaz. vol. 169; p. 34.
Coin-receptacle. M. W. Kirkland. No. 1,007,117; Oct. 31; Sp. p. 5652; Gaz. vol. 171; p. 1038.
Coin-released lock. H. S. Mills. No. 995,023; June 13; Sp. p. 2041; Gaz. vol. 167; p. 357.
Coin-selector. G. C. Reith and G. F. Flade. No. 999,124; July 25; Sp. p. 5509; Gaz. vol. 168; p. 981.
Coin-sorter. F. L. Sattley. No. 990,909; May 2; Sp. p. 167; Gaz. vol. 166; p. 32.
Coin-sorter. F. L. Sattley. No. 990,911; May 2; Sp. p. 179; Gaz. vol. 166; p. 33.
Coin sorting or distributing device or apparatus. G. R. Denton. No. 985,789; Mar. 7; Sp. p. 44; Gaz. vol. 164; p. 10.
Coin-wrapper. C. F. Goldbeck. No. 1,001,138; Aug. 22; Sp. p. 4193; Gaz. vol. 169; p. 767.
Coke and gas oven. L. Wilputte. No. 981,344; Jan. 10; Sp. p. 2686; Gaz. vol. 162; p. 435.
Coke, &c., Apparatus for determining water in. J. A. P. Crisfield. No. 982,765; Jan. 24; Sp. p. 5678; Gaz. vol. 162; p. 973.
Coke, Car for quenching. H. Ries. No. 1,006,281; Oct. 17; Sp. p. 3792; Gaz. vol. 171; p. 664.
Coke from retorts, Driving-gear of apparatus for discharging. S. Glover and J. West. No. 1,011,425; Dec. 12; Sp. p. 2297; Gaz. vol. 173; p. 393.
Coke-oven. L. Bansart. No. 987,941; Mar. 28; Sp. p. 4665; Gaz. vol. 164; p. 835.
Coke-oven. W. J. Kearns. No. 987,993; Mar. 28; Sp. p. 4786; Gaz. vol. 164; p. 853.
Coke-oven. G. Schwab. No. 989,302; Apr. 11; Sp. p. 2137; Gaz. vol. 165; p. 365.
Coke-oven. L. P. Palmer. No. 992,684; May 16; Sp. p. 3966; Gaz. vol. 166; p. 708.
Coke-oven. G. E. Behr, Jr. No. 996,829; July 4; Sp. p. 468; Gaz. vol. 168; p. 77.
Coke-oven. C. Schroeter. No. 998,805; July 25; Sp. p. 4817; Gaz. vol. 168; p. 870.
Coke-oven. A. O. Jones. No. 1,008,718; Nov. 14; Sp. p. 2461; Gaz. vol. 172; p. 416.
Coke-oven. W. Feicks. No. 1,011,932; Dec. 19; Sp. p. 3460; Gaz. vol. 173; p. 605.
Coke-oven door. L. C. Flaccus. No. 992,492; May 16; Sp. p. 3577; Gaz. vol. 166; p. 641.
Coke-oven door. L. Wilputte. No. 1,006,036; Oct. 17; Sp. p. 3209; Gaz. vol. 171; p. 576.
Coke-oven door. R. Hay and P. B. Rule. No. 1,012,848; Dec. 26; Sp. p. 5462; Gaz. vol. 173; p. 966.
Coke-oven or gas-furnace. W. Feicks. No. 1,011,933; Dec. 19; Sp. p. 3461; Gaz. vol. 173; p. 606.
Coke-oven-spraying mechanism. T. J. Mitchell and J. A. McCreary. No. 982,625; Jan. 24; Sp. p. 5374; Gaz. vol. 162; p. 927.
Coke-ovens, Gas-burner for. R. Müller. No. 982,983; Jan. 31; Sp. p. 6160; Gaz. vol. 162; p. 1076.
Coke-ovens, Leveling apparatus for horizontal. F. aus der Mark. No. 985,266; Feb. 28; Sp. p. 4351; Gaz. vol. 163; p. 786.
Coke-ovens, Leveling-ram for. L. Wilputte. No. 981,732; Jan. 17; Sp. p. 3473; Gaz. vol. 162; p. 588.
Coke quenching and handling apparatus. C. E. Pope. No. 984,700; Feb. 21; Sp. p. 3154; Gaz. vol. 163; p. 558.
Coke-quenching apparatus. D. McDonald. No. 1,001,543; Aug. 22; Sp. p. 4991; Gaz. vol. 169; p. 900.
Coke-quenching device. L. C. Flaccus. No. 1,007,439; Oct. 31; Sp. p. 6346; Gaz. vol. 171; p. 1152.
Coke-quenching machine. J. W. Seaver and J. E. A. Moore. No. 998,556; July 18; Sp. p. 4230; Gaz. vol. 168; p. 750.
Coke quenching, screening, and loading apparatus. A. Goodall. No. 982,590; Jan. 24; Sp. p. 5313; Gaz. vol. 162; p. 916.
Coke screen and conveyer. T. J. Mitchell and J. A. McCreary. No. 1,012,214; Dec. 19; Sp. p. 4098; Gaz. vol. 173; p. 703.
Coke, Treating. H. Spurrier. No. 1,007,153; Oct. 31; Sp. p. 5736; Gaz. vol. 171; p. 1051.
Coking and gas-generating oven. H. Koppers. No. 985,909; Mar. 7; Sp. p. 324; Gaz. vol. 164; p. 52.
Coking coal and producing gas, Apparatus for. H. L. Doherty. No. 997,941; July 11; Sp. p. 2879; Gaz. vol. 168; p. 491.
Coking-furnace. L. L. Summers. No. 992,079; May 9; Sp. p. 2623; Gaz. vol. 166; p. 467.
Coking-furnace. L. L. Summers. (Reissue.) No. 13,274; July 18; Sp. p. 4329; Gaz. vol. 168; p. 765.
Coking-furnace and conveyer therefor. L. L. Summers. No. 1,003,544; Sept. 19; Sp. p. 2946; Gaz. vol. 170; p. 538.
Coking-furnace and conveyer therefor. L. L. Summers. (Reissue.) No. 13,311; Nov. 7; Sp. p. 1422; Gaz. vol. 172; p. 231.
Coking-oven. L. L. Summers. No. 992,078; May 9; Sp. p. 2620; Gaz. vol. 166; p. 466.
Cold-dispensing can. B. Brazelle. No. 1,007,060; Oct. 31; Sp. p. 5508; Gaz. vol. 171; p. 1017.
Collapsible box. G. R. Tibbetts. No. 980,705; Jan. 3; Sp. p. 1139; Gaz. vol. 162; p. 182.
Collapsible box. J. H. Wilson. No. 987,206; Mar. 21; Sp. p. 3064; Gaz. vol. 164; p. 555.
Collapsible box. J. E. Potter. No. 1,003,150; Sept. 12; Sp. p. 2119; Gaz. vol. 170; p. 365.
Collapsible box and crate. A. J. Coghe. No. 997,755; July 11; Sp. p. 2448; Gaz. vol. 168; p. 427.
Collapsible chair. J. Rosenberg. No. 995,723; June 20; Sp. p. 3551; Gaz. vol. 167; p. 625.
Collapsible chair. A. Sperl. No. 1,004,489; Sept. 26; Sp. p. 5052; Gaz. vol. 170; p. 889.
Collapsible gate. R. E. Raxworthy. No. 1,009,099; Nov. 21; Sp. p. 3279; Gaz. vol. 172; p. 580.
Collapsible-handle can. E. G. Canepa and G. Ottone fu Giorgio. No. 1,007,429; Oct. 31; Sp. p. 6329; Gaz. vol. 171; p. 1149.
Collapsible tube. C. H. Stuart. No. 1,005,668; Oct. 10; Sp. p. 2422; Gaz. vol. 171; p. 416.
Collapsible tube and ejector therefor. O. F. Wierth. No. 980,377; Jan. 3; Sp. p. 404; Gaz. vol. 162; p. 71.
Collar. L. B. Tim. No. 982,646; Jan. 24; Sp. p. 5415; Gaz. vol. 162; p. 934.
Collar. F. M. Maciarz. No. 985,612; Feb. 28; Sp. p. 5119; Gaz. vol. 163; p. 905.
Collar. C. Ryan. No. 985,636; Feb. 28; Sp. p. 5161; Gaz. vol. 163; p. 912.
Collar. W. V. Eaton. No. 987,971; Mar. 28; Sp. p. 4745; Gaz. vol. 164; p. 846.
Collar. E. H. Cooper. No. 990,957; May 2; Sp. p. 281; Gaz. vol. 166; p. 48.
Collar. C. H. Turner. No. 992,459; May 16; Sp. p. 3497; Gaz. vol. 166; p. 630.
Collar. T. J. Hruby. No. 1,009,416; Nov. 21; Sp. p. 4023; Gaz. vol. 172; p. 695.
Collar, Adjustable spacing-. O. A. Krenke. No. 1,012,564; Dec. 19; Sp. p. 4793; Gaz. vol. 173; p. 823.
Collar adjuster, Horse-. B. J. Hickman. No. 991,618; May 9; Sp. p. 1704; Gaz. vol. 166; p. 313.
Collar and cuff pressing machine. H. C. Longsdon and J. R. Bottomley. No. 998,622; July 25; Sp. p. 4397; Gaz. vol. 168; p. 806.
Collar and hames, Combined horse-. H. C. McMillan. No. 1,012,686; Dec. 26; Sp. p. 5060; Gaz. vol. 173; p. 908.
Collar and hames, Universally-adjustable combined horse-. J. G. Friberg. No. 987,127; Mar. 21; Sp. p. 2849; Gaz. vol. 164; p. 525.
Collar and tie form. G. H. Capper. No. 988,625; Apr. 4; Sp. p. 729; Gaz. vol. 165; p. 116.
Collar attachment. M. G. Polk. No. 986,755; Mar. 14; Sp. p. 2120; Gaz. vol. 164; p. 370.
Collar-band protector. J. L. Murphy. No. 1,000,033; Aug. 8; Sp. p. 1682; Gaz. vol. 169; p. 316.
Collar cap-clamp and pad-guard, Horse-. F. J. Clark. No. 1,007,336; Oct. 31; Sp. p. 6125; Gaz. vol. 171; p. 1117.
Collar, Coat-. C. Fischer. No. 985,668; Feb. 28; Sp. p. 5224; Gaz. vol. 163; p. 922.
Collar, Convertible. A. M. Hajek. No. 997,126; July 4; Sp. p. 1110; Gaz. vol. 168; p. 180.
Collar, Double shirt-. C. Hyatt-Woolf. No. 986,825; Mar. 14; Sp. p. 2271; Gaz. vol. 164; p. 393.
Collar-fastener. J. H. Jessop. No. 1,000,010; Aug. 8; Sp. p. 1643; Gaz. vol. 169; p. 308.
Collar fastener, Horse-. J. G. Friberg. No. 1,000,793; Aug. 15; Sp. p. 3411; Gaz. vol. 169; p. 613.
Collar-fastening. A. Craddock. No. 1,000,153; Aug. 8; Sp. p. 1984; Gaz. vol. 169; p. 356.
Collar for jackets. H. T. Morgan. No. 998,627; July 25; Sp. p. 4413; Gaz. vol. 168; p. 808.
Collar, Horse-. C. Ross. No. 981,006; Jan. 10; Sp. p. 1910; Gaz. vol. 162; p. 316.
Collar, Horse-. J. S. and W. Wallace. No. 986,331; Mar. 7; Sp. p. 1199; Gaz. vol. 164; p. 194.
Collar, Horse-. J. D. Abram. No. 993,137; May 23; Sp. p. 4950; Gaz. vol. 166; p. 896.
Collar, Horse-. J. S. Aschliman. No. 1,001,726; Aug. 29; Sp. p. 5391; Gaz. vol. 169; p. 994.
Collar, Horse-. E. A. Border. No. 1,008,585; Nov. 14; Sp. p. 2173; Gaz. vol. 172; p. 370.
Collar, Horse-. H. C. McMillan. No. 1,012,685; Dec. 26; Sp. p. 5059; Gaz. vol. 173; p. 908.
Collar, Lock-front. S. Schlesinger. No. 999,882; Aug. 8; Sp. p. 1373; Gaz. vol. 169; p. 264.
Collar, Lock-front turn-over. O. H. Keep, Jr. No. 982,827; Jan. 31; Sp. p. 5820; Gaz. vol. 162; p. 1024.
Collar pad, Horse-. M. Taffner. No. 984,247; Feb. 14; Sp. p. 2166; Gaz. vol. 163; p. 367.
Collar pad, Horse-. G. P. Van Keuren. No. 1,012,763; Dec. 26; Sp. p. 5231; Gaz. vol. 173; p. 937.
Collar-pads, Making. G. A. Reynolds. No. 1,002,177; Aug. 29; Sp. p. 6328; Gaz. vol. 169; p. 1143.

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Collar-protecting device. S. L. Simpson. No. 1,007,396; Oct. 31; Sp. p. 6255; Gaz. vol. 171; p. 1138.
Collar-shaper. G. H. Spansail. No. 1,006,308; Oct. 17; Sp. p. 3840; Gaz. vol. 171; p. 672.
Collar shaping and edging machine. J. J. Polaski. No. 987,741; Mar. 28; Sp. p. 4189; Gaz. vol. 164; p. 765.
Collar-stuffing machine. J. C. Collett. No. 999,549; Aug. 1; Sp. p. 706; Gaz. vol. 169; p. 121.
Collar-stuffing machine. J. C. Collett. No. 999,550; Aug. 1; Sp. p. 708; Gaz. vol. 169; p. 122.
Collar-stuffing machine, Horse-. J. C. Collett. No. 981,616; Jan. 17; Sp. p. 3240; Gaz. vol. 162; p. 550.
Collar-support. H. Till. No. 983,953; Feb. 14; Sp. p. 1523; Gaz. vol. 163; p. 267.
Collar-support. H. Till. No. 983,954; Feb. 14; Sp. p. 1525; Gaz. vol. 163; p. 268.
Collar-support. D. Marinsky. No. 989,858; Apr. 18; Sp. p. 3361; Gaz. vol. 165; p. 586.
Collar-support. M. L. Allen. No. 996,304; June 27; Sp. p. 4863; Gaz. vol. 167; p. 858.
Collar-support, Lady's. M. L. Allen. No. 983,260; Feb. 7; Sp. p. 1; Gaz. vol. 163; p. 3.
Collar-supports, Adhesive compound for. H. J. Till. No. 983,955; Feb. 14; Sp. p. 1527; Gaz. vol. 163; p. 268.
Collar-supporter. M. C. Messler. No. 987,638; Mar. 21; Sp. p. 3942; Gaz. vol. 164; p. 702.
Collar-supporter. A. M. Windrich. No. 991,402; May 2; Sp. p. 1226; Gaz. vol. 166; p. 204.
Collar-supporter. A. J. Thomson. No. 1,005,085; Oct. 3; Sp. p. 1098; Gaz. vol. 171; p. 185.
Collar-supporter. M. B. Sweigart. No. 1,005,901; Oct. 17; Sp. p. 2913; Gaz. vol. 171; p. 529.
Collars, belts, and the like, Support for. B. C. Hanel. No. 1,000,260; Aug. 8; Sp. p. 2207; Gaz. vol. 169; p. 393.
Collars, Combination tug and hame attachment for horse-. F. Slocum. No. 1,011,383; Dec. 12; Sp. p. 2215; Gaz. vol. 173; p. 378.
Collars, Machine for folding and shaping turn-down. W. A. Zeidler. No. 1,010,713; Dec. 5; Sp. p. 696; Gaz. vol. 173; p. 110.
Collars, Machine for folding, edge-ironing, and shaping turn-down. W. A. Zeidler. No. 1,010,712; Dec. 5; Sp. p. 691; Gaz. vol. 173; p. 110.
Collars, Making. T. Klein. No. 999,503; Aug. 1; Sp. p. 608; Gaz. vol. 169; p. 105.
Collecting and stacking machine. G. W. Mascord. No. 997,201; July 4; Sp. p. 1266; Gaz. vol. 168; p. 206.
Color estimation, Apparatus for. J. W. Lovibond. No. 987,148; Mar. 21; Sp. p. 2899; Gaz. vol. 164; p. 532.
Colored bodies, Making solid. B. Melzer. No. 1,000,425; Aug. 15; Sp. p. 2589; Gaz. vol. 169; p. 482.
Colored glass. H. M. Shreiner. No. 990,303; Apr. 25; Sp. p. 4321; Gaz. vol. 165; p. 769.
Coloring-matter, Red-violet. O. Günther. No. 1,009,741; Nov. 28; Sp. p. 4675; Gaz. vol. 172; p. 849.
Coloring-matters derived from gallocyanin, Manufacture of. A. Steiner. No. 992,613; May 16; Sp. p. 3839; Gaz. vol. 166; p. 684.
Coloring substances, Manufacturing. X. Debédat. No. 999,755; Aug. 8; Sp. p. 1115; Gaz. vol. 169; p. 221.
Colter, Rolling. W. L. Paul. No. 984,103; Feb. 14; Sp. p. 1853; Gaz. vol. 163; p. 318.
Column and beam. J. H. Campbell. No. 982,472; Jan. 24; Sp. p. 5084; Gaz. vol. 162; p. 877.
Column, Expansible. W. L. Dillon. No. 995,444; June 20; Sp. p. 2942; Gaz. vol. 167; p. 525.
Column or post. W. J. J. Bowman. No. 997,435; July 11; Sp. p. 1739; Gaz. vol. 168; p. 315.
Column, Wooden. G. B. Kyle. No. 1,000,822; Aug. 15; Sp. p. 3457; Gaz. vol. 169; p. 623.
Comb: *See* Barber's comb; Currycomb; Dressing-comb; Fountain-comb; Hair-ironing comb; Self-cleaning comb.
Comb. G. Grosscup. No. 986,918; Mar. 14; Sp. p. 2465; Gaz. vol. 164; p. 426.
Comb. J. G. Higgins. No. 999,997; Aug. 8; Sp. p. 1609; Gaz. vol. 169; p. 303.
Comb. D. Cohen. No. 1,004,371; Sept. 26; Sp. p. 4807; Gaz. vol. 170; p. 849.
Comb. M. D. Weaver. No. 1,012,179; Dec. 19; Sp. p. 4017; Gaz. vol. 173; p. 692.
Comb-anchor. C. W. Groot. No. 988,770; Apr. 4; Sp. p. 1036; Gaz. vol. 165; p. 165.
Comb and brush. W. J. Hope. No. 1,010,913; Dec. 5; Sp. p. 1142; Gaz. vol. 173; p. 180.
Comb and cigar-cutter, Combined. P. Stegemann. No. 995,194; June 13; Sp. p. 2380; Gaz. vol. 167; p. 412.
Comb case and cleaning device, Combined. H. Olson. No. 988,379; Apr. 4; Sp. p. 197; Gaz. vol. 165; p. 32.
Comb-cleaner. F. L. Vordemfelde. No. 986,785; Mar. 14; Sp. p. 2174; Gaz. vol. 164; p. 379.
Comb foundation and section honey-box therefor. L. A. Aspinwall. No. 994,559; June 6; Sp. p. 951; Gaz. vol. 167; p. 157.
Comb safety device. C. S. Hunt. No. 1,003,264; Sept. 12; Sp. p. 2380; Gaz. vol. 170; p. 409.
Combs, Manufacturing. D. L. Chandler. No. 998,675; July 25; Sp. p. 4519; Gaz. vol. 168; p. 824.
Comber and stop-motion therefor. W. E. Morton. No. 998,375; July 18; Sp. p. 3882; Gaz. vol. 168; p. 689.
Combers, Dabbing-brush for wool-. T. K. Lee. No. 984,943; Feb. 21; Sp. p. 3633; Gaz. vol. 163; p. 640.
Combing-machine. E. G. Rooney. No. 1,002,454; Sept. 5; Sp. p. 622; Gaz. vol. 170; p. 89.
Combing-machine, Circle. J. H. Whitehead and G. Galloway. No. 986,616; Mar. 14; Sp. p. 1824; Gaz. vol. 164; p. 323.
Combing-machine comber device. F. W. Lässig. No. 992,216; May 16; Sp. p. 2934; Gaz. vol. 166; p. 545.
Combing-machine feed-regulating device. C. Sharp. No. 1,004,092; Sept. 26; Sp. p. 4228; Gaz. vol. 170; p. 754.
Combing machine, Pelt-. M. T. Reehl. No. 989,419; Apr. 11; Sp. p. 2389; Gaz. vol. 165; p. 403.
Combing machine, Wool-. A. Ashworth. No. 1,010,840; Dec. 5; Sp. p. 982; Gaz. vol. 173; p. 153.
Combination-knife. W. F. Carkin. No. 987,548; Mar. 21; Sp. p. 3753; Gaz. vol. 164; p. 670.
Combination-lock. F. Soley. No. 986,096; Mar. 7; Sp. p. 726; Gaz. vol. 164; p. 117.
Combination-lock. C. R. Smith and C. L. Spencer. No. 987,265; Mar. 21; Sp. p. 3186; Gaz. vol. 164; p. 576.
Combination-lock. O. J. Fahey. No. 991,285; May 2; Sp. p. 985; Gaz. vol. 166; p. 166.
Combination-lock. A. B. Smith. No. 996,151; June 27; Sp. p. 4463; Gaz. vol. 167; p. 807.
Combination-lock. T. C. Jensen and J. C. Jorgensen. No. 997,825; July 11; Sp. p. 2624; Gaz. vol. 168; p. 451.
Combination-lock. M. Tamburini. No. 1,002,338; Sept. 5; Sp. p. 366; Gaz. vol. 170; p. 51.
Combination-lock. A. L. Mandula. No. 1,012,388; Dec. 19; Sp. p. 4451; Gaz. vol. 173; p. 762.
Combination-lock. D. W. Darius. No. 1,012,991; Dec. 26; Sp. p. 5791; Gaz. vol. 173; p. 1013.
Combination-lock, Mechanical. M. Tamburini. No. 981,140; Jan. 10; Sp. p. 2204; Gaz. vol. 162; p. 363.
Combination-pot. J. N. Papendry. No. 994,949; June 13; Sp. p. 1887; Gaz. vol. 167; p. 332.
Combination-rack. I. B. Cain. No. 1,012,518; Dec. 19; Sp. p. 4691; Gaz. vol. 173; p. 806.
Combination-shears. J. A. Guzman. No. 1,006,936; Oct. 24; Sp. p. 5249; Gaz. vol. 171; p. 923.
Combination-wrench. L. V. Aronson. No. 995,837; June 20; Sp. p. 3822; Gaz. vol. 167; p. 665.
Combination-wrench. A. S. Reed. No. 999,399; Aug. 1; Sp. p. 411; Gaz. vol. 169; p. 73.
Combination-wrench. L. C. Chapman. No. 1,007,020; Oct. 24; Sp. p. 5413; Gaz. vol. 171; p. 949.
Combustion, Apparatus for generating products of. T. H. Holroyd. No. 1,008,825; Nov. 14; Sp. p. 2692; Gaz. vol. 172; p. 452.
Combustion-chamber. B. H. Blaisdell. No. 1,008,583; Nov. 14; Sp. p. 2167; Gaz. vol. 172; p. 369.
Combustion-chamber. B. H. Blaisdell. No. 1,008,689; Nov. 14; Sp. p. 2401; Gaz. vol. 172; p. 406.
Combustion-engine. J. Sulzer. No. 983,322; Feb. 7; Sp. p. 139; Gaz. vol. 163; p. 25.
Combustion-engine, Air-cooled. L. G. Nilson. No. 1,010,787; Dec. 5; Sp. p. 866; Gaz. vol. 173; p. 136.
Combustion-motor with reciprocating piston. W. Grinewezki. No. 1,006,476; Oct. 24; Sp. p. 4224; Gaz. vol. 171; p. 760.
Combustion, Perfecting. W. J. Paul, J. H. Lynch, and J. G. Meyer. No. 1,003,969; Sept. 19; Sp. p. 3895; Gaz. vol. 170; p. 684.
Combustion-perfecting furnace. W. J. Paul, J. H. Lynch, and J. G. Meyer. No. 1,003,968; Sept. 19; Sp. p. 3893; Gaz. vol. 170; p. 684.
Combustion, Promoting. J. H. Parsons. No. 987,316; Mar. 21; Sp. p. 3299; Gaz. vol. 164; p. 593.
Comminuting-machine. H. A. Hannum. No. 1,011,342; Dec. 12; Sp. p. 2141; Gaz. vol. 173; p. 365.
Commode-seat. L. M. Ainsworth. No. 1,004,521; Sept. 26; Sp. p. 5112; Gaz. vol. 170; p. 900.
Communion-service. W. D. Cree and H. F. Davis. No. 982,351; Jan. 24; Sp. p. 4811; Gaz. vol. 162; p. 833.
Communion-service device. W. S. Harpster. No. 1,012,131; Dec. 19; Sp. p. 3915; Gaz. vol. 173; p. 677.
Commutator. W. A. Dick. No. 984,125; Feb. 14; Sp. p. 1891; Gaz. vol. 163; p. 325.
Commutator. F. C. Fischer. No. 984,655; Feb. 21; Sp. p. 3058; Gaz. vol. 163; p. 541.
Commutator. E. Mattman. No. 992,372; May 16; Sp. p. 3337; Gaz. vol. 166; p. 600.
Commutator. F. W. Reeves. No. 994,480; June 6; Sp. p. 774; Gaz. vol. 167; p. 132.
Commutator-brush. J. L. Crouse. No. 1,010,118; Nov. 28; Sp. p. 5450; Gaz. vol. 172; p. 977.
Commutator for dynamo-electric machines. C. A. Parsons and A. H. Law. No. 998,386; July 18; Sp. p. 3911; Gaz. vol. 168; p. 693.
Commutator for dynamo-electric machines. F. S. Martin. No. 1,007,469; Oct. 31; Sp. p. 6401; Gaz. vol. 171; p. 1162.
Commutator for electric machines. W. S. Sutton. No. 996,895; July 4; Sp. p. 611; Gaz. vol. 168; p. 100.
Commutator-necks, Spacer and bracer for. H. H. Ralston. No. 1,005,874; Oct. 17; Sp. p. 2858; Gaz. vol. 171; p. 519.
Commutator of dynamo-electric machines. C. A. Parsons, A. H. Law, and J. P. Stockbridge. No. 1,006,673; Oct. 24; Sp. p. 4663; Gaz. vol. 171; p. 831.

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Commutator-repairing means. F. C. Fischer. No. 992,865; May 23; Sp. p. 4368; Gaz. vol. 166; p. 802.
Commutator, Rotating. A. D. Williamson. No. 1,003,843; Sept. 19; Sp. p. 3590; Gaz. vol. 170; p. 639.
Commutator-short-circuiting device. C. S. Reno. No. 1,007,893; Nov. 7; Sp. p. 558; Gaz. vol. 172; p. 86.
Commutator-short-circuiting device. L. H. Thullen. No. 1,007,902; Nov. 7; Sp. p. 578; Gaz. vol. 172; p. 89.
Commutator-switch. R. Miller. No. 1,010,666; Dec. 5; Sp. p. 584; Gaz. vol. 173; p. 93.
Commutators, Oil-guard for. R. Siegfried. No. 981,803; Jan. 17; Sp. p. 3610; Gaz. vol. 162; p. 613.
Commutators, Power-driven tool for dressing. R. S. Freeman. No. 990,722; Apr. 25; Sp. p. 5300; Gaz. vol. 165; p. 914.
Compass and tape-line, Combined. A. H. Wyatt. No. 980,730; Jan. 3; Sp. p. 1191; Gaz. vol. 162; p. 190.
Compass, Beam-. H. F. Olson. No. 1,001,433; Aug. 22; Sp. p. 4800; Gaz. vol. 169; p. 865.
Compass, Blackboard-. S. Beck. No. 985,968; Mar. 7; Sp. p. 456; Gaz. vol. 164; p. 73.
Compass, Electromagnetic. L. D. J. A. Dunoyer. No. 989,134; Apr. 11; Sp. p. 1766; Gaz. vol. 165; p. 308.
Compass, Marine. H. Hertzberg. No. 1,001,593; Aug. 22; Sp. p. 5098; Gaz. vol. 169; p. 917.
Compass, Mariner's. L. W. P. Chetwynd and F. W. Clark. No. 988,626; Apr. 4; Sp. p. 730; Gaz. vol. 165; p. 116.
Compass-needle. H. Wagner. No. 996,689; July 4; Sp. p. 182; Gaz. vol. 168; p. 32.
Compasses. F. Pfaff. No. 984,697; Feb. 21; Sp. p. 3144; Gaz. vol. 163; p. 556.
Compasses. R. W. Graham. No. 988,188; Mar. 28; Sp. p. 5167; Gaz. vol. 164; p. 916.
Compasses, Attachment for mariners'. G. K. Calhoun. No. 994,569; June 6; Sp. p. 967; Gaz. vol. 167; p. 161.
Compasses or dividers. C. E. Hand. No. 1,008,140; Nov. 7; Sp. p. 1052; Gaz. vol. 172; p. 171.
Compasses, Support for. W. S. Ely. No. 1,008,803; Nov. 14; Sp. p. 2653; Gaz. vol. 172; p. 445.
Compensating device. J. F. Raders. No. 986,498; Mar. 14; Sp. p. 1580; Gaz. vol. 164; p. 281.
Composing and casting machine, Typographical line. H. Degener. No. 1,006,444; Oct. 17; Sp. p. 4137; Gaz. vol. 171; p. 719.
Composing and line-casting machine, Typographical. H. Degener. No. 1,008,705; Nov. 14; Sp. p. 2436; Gaz. vol. 172; p. 412.
Composing and line-casting machines, Distributing mechanism of matrix-. C. Muehleisen. No. 1,008,981; Nov. 14; Sp. p. 3012; Gaz. vol. 172; p. 502.
Composing-machine leading attachment. F. H. Pierpont. No. 980,998; Jan. 10; Sp. p. 1883; Gaz. vol. 162; p. 313.
Composing-machine, Monoline. W. E. Bertram. No. 997,735; July 11; Sp. p. 2383; Gaz. vol. 168; p. 419.
Composing-machine, Monoline. W. E. Bertram. No. 997,736; July 11; Sp. p. 2398; Gaz. vol. 168; p. 419.
Composing-machine, Multiplex. J. S. Bancroft and M. C. Indahl. No. 989,557; Apr. 18; Sp. p. 2713; Gaz. vol. 165; p. 484.
Composing-machine, Pattern-controlled. R. C. Elliott. No. 980,933; Jan. 10; Sp. p. 1671; Gaz. vol. 162; p. 289.
Composing-machine, Pattern or record-strip. R. C. Elliott. No. 989,589; Apr. 18; Sp. p. 2794; Gaz. vol. 165; p. 494.
Composing-machine, Pattern or record-strip. J. S. Bancroft and M. C. Indahl. No. 1,008,303; Nov. 14; Sp. p. 1450; Gaz. vol. 172; p. 269.
Composing-machine, Record-strip. J. S. Bancroft and M. C. Indahl. No. 980,904; Jan. 10; Sp. p. 1610; Gaz. vol. 162; p. 280.
Compósing-machine, Typographical. H. Pearce, J. E. Billington, C. Holliwell, and J. R. Burgess. No. 1,008,056; Nov. 7; Sp. p. 881; Gaz. vol. 172; p. 142.
Composing-machines, Automatic justifying means for pattern-controlled. J. S. Bancroft and M. C. Indahl. No. 980,902; Jan. 10; Sp. p. 1589; Gaz. vol. 162; p. 279.
Composing-machines, Distributing mechanism for typographical. J. Mayer. No. 987,897; Mar. 28; Sp. p. 4544; Gaz. vol. 164; p. 819.
Composing-machines, Font-selecting mechanism for monoline. W. E. Bertram. No. 991,937; May 9; Sp. p. 2365; Gaz. vol. 166; p. 420.
Composing-machines, Matrix selecting and delivery mechanism for. W. E. Bertram. No. 991,938; May 9; Sp. p. 2368; Gaz. vol. 166; p. 421.
Composing-machines, Means for leveling multiple-face matrices in typographical. C. A. Albrecht. No. 1,009,622; Nov. 21; Sp. p. 4421; Gaz. vol. 172; p. 762.
Composing-machines, Quadding apparatus of typographical. H. Pearce and J. E. Billington. No. 990,289; Apr. 25; Sp. p. 4287; Gaz. vol. 165; p. 765.
Composing-stick, Self-locking and point-setting. G. M. Durell. No. 984,804; Feb. 21; Sp. p. 3368; Gaz. vol. 163; p. 595.
Composite sheet material, Means for making. E. H. Angier. No. 997,173; July 4; Sp. p. 1217; Gaz. vol. 168; p. 197.
Composition. C. J. Crum. No. 995,227; June 13; Sp. p. 2450; Gaz. vol. 167; p. 424.
Composition of matter. F. Mlekush. No. 991,223; May 2; Sp. p. 841; Gaz. vol. 166; p. 143.
Composition of matter. E. Heckel. No. 994,922; June 13; Sp. p. 1837; Gaz. vol. 167; p. 323.
Composition of matter. J. W. Kelley. No. 1,003,139; Sept. 12; Sp. p. 2101; Gaz. vol. 170; p. 362.
Composition of matter. W. H. Murray. No. 1,003,147; Sept. 12; Sp. p. 2113; Gaz. vol. 170; p. 364.
Composition of matter. L. S. Brach. No. 1,004,847; Oct. 3; Sp. p. 650; Gaz. vol. 171; p. 106.
Composition of matter. K. Höfler. No. 1,008,336; Nov. 14; Sp. p. 1536; Gaz. vol. 172; p. 281.
Composition of matter for use in making roads and making said composition. E. A. Paterson. No. 987,597; Mar. 21; Sp. p. 3860; Gaz. vol. 164; p. 688.
Compound brake. A. Sundh. No. 1,011,661; Dec. 12; Sp. p. 2870; Gaz. vol. 173; p. 479.
Compound engine. H. Junkers. No. 990,140; Apr. 18; Sp. p. 3939; Gaz. vol. 165; p. 680.
Compound engine. H. Bolthoff. No. 999,432; Aug. 1; Sp. p. 473; Gaz. vol. 169; p. 83.
Compound hydro-steam engine. D. Maclean. No. 991,074; May 2; Sp. p. 511; Gaz. vol. 166; p. 88.
Compound-lever shears. A J. Stitch. No. 1,012,289; Dec. 19; Sp. p. 4253; Gaz. vol. 173; p. 730.
Compound or multiple-expansion engine. A. Stappen. No. 1,011,516; Dec. 12; Sp. p. 2509; Gaz. vol. 173; p. 427.
Compound reel. E. E. Wolf and C. J. Spilman. No. 989,097; Apr. 11; Sp. p. 1694; Gaz. vol. 165; p. 295.
Compound reel. E. E. Wolf and C. J. Spilman. No. 989,098; Apr. 11; Sp. p. 1696; Gaz. vol. 165; p. 295.
Compound steam-engine. T. J. Gee. No. 996,076; June 27; Sp. p. 4311; Gaz. vol. 167; p. 782.
Compress. F. Phelps. No. 1,009,258; Nov. 21; Sp. p. 3647; Gaz. vol. 172; p. 636.
Compress-chocking mechanism. W. Hill. No. 997,129; July 4; Sp. p. 1118; Gaz. vol. 168; p. 181.
Compressed-air device. A. McKnight. No. 984,512; Feb. 14; Sp. p. 2717; Gaz. vol. 163; p. 456.
Compressed-air engine. D. H. Murray. No. 1,002,739; Sept. 5; Sp. p. 1255; Gaz. vol. 170; p. 187.
Compressed-air system. W. S. Cook. No. 1,006,912; Oct. 24; Sp. p. 5205; Gaz. vol. 171; p. 914.
Compressing-machine. W. M. Gentle. No. 988,328; Apr. 4; Sp. p. 79; Gaz. vol. 165; p. 14.
Compressing-machine. E. S. Smith. No. 991,035; May 2; Sp. p. 431; Gaz. vol. 166; p. 74.
Compressing-machine. J. Baade. No. 991,412; May 2; Sp. p. 1246; Gaz. vol. 166; p. 208.
Compressing-machine. J. H. Pope. No. 1,012,007; Dec. 19; Sp. p. 3630; Gaz. vol. 173; p. 632.
Compression engine, Changeable-. E. Thomson. No. 996,378; June 27; Sp. p. 5025; Gaz. vol. 167; p. 885.
Compressor. H. W. N. Cole. No. 983,605; Feb. 7; Sp. p. 758; Gaz. vol. 163; p. 119.
Compressor. F. A. Baker. No. 988,848; Apr. 4; Sp. p. 1180; Gaz. vol. 165; p. 188.
Compressor. J. H. Denton. No. 995,121; June 13; Sp. p. 2237; Gaz. vol. 167; p. 389.
Compressor and pump, Centrifugal. H. Keller. No. 987,994; Mar. 28; Sp. p. 4788; Gaz. vol. 164; p. 854.
Compressor, Engine-driven. G. L. Badger. No. 992,932; May 23; Sp. p. 4515; Gaz. vol. 166; p. 827.
Compressor, Rotary. T. R. Vinzent and F. C. Bell. No. 983,010; Jan. 31; Sp. p. 6233; Gaz. vol. 162; p. 1085.
Compressor, Rotary. A. C. Roessler. No. 986,502; Mar. 14; Sp. p. 1586; Gaz. vol. 164; p. 282.
Computer, Time and wage. R. W. Crary and O. E. McMeans. No. 981,066; Jan. 10; Sp. p. 2052; Gaz. vol. 162; p. 337.
Computing and registering mechanism. W. A. Burnop. No. 1,004,682; Oct. 3; Sp. p. 277; Gaz. vol. 171; p. 48.
Computing-machine. H. Marshall. No. 987,150; Mar. 21; Sp. p. 2908; Gaz. vol. 164; p. 533.
Computing-machine. W. A. Bryant. No. 994,716; June 13; Sp. p. 1335; Gaz. vol. 167; p. 252.
Computing-machine. J. M. Daly. No. 994,821; June 13; Sp. p. 1578; Gaz. vol. 167; p. 289.
Computing-machine. J. M. Daly. No. 994,823; June 13; Sp. p. 1596; Gaz. vol. 167; p. 290.
Computing-machine. C. A. Joerissen. No. 1,007,576; Oct. 31; Sp. p. 6649; Gaz. vol. 171; p. 1199.
Computing-machine. C. A. Joerissen. No. 1,011,125; Dec. 5; Sp. p. 1593; Gaz. vol. 173; p. 252.
Computing-machine. G. O. Degener. No. 1,012,607; Dec. 26; Sp. p. 4891; Gaz. vol. 173; p. 881.
Computing-machine, Typographical. G. Walker. No. 996,173; June 27; Sp. p. 4513; Gaz. vol. 167; p. 815.
Concentrates, Apparatus for collecting. W. F. Deister. No. 1,007,074; Oct. 31; Sp. p. 5553; Gaz. vol. 171; p. 1022.
Concentrates, Apparatus for collecting. W. F. Deister. No. 1,007,075; Oct. 31; Sp. p. 5555; Gaz. vol. 171; p. 1022.
Concentrating-mills and the like, Apparatus for disposal of waste rock from. H. R. Wahl. No. 1,003,385; Sept. 12; Sp. p. 2612; Gaz. vol. 170; p. 449.
Concentrating process. J. W. Bell. No. 987,689; Mar. 28; Sp. p. 4074; Gaz. vol. 164; p. 748.
Concentrating-table deck. F. Franz. No. 995,448; June 20; Sp. p. 2947; Gaz. vol. 167; p. 526.

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Concentrating-tables, Operating mechanism for. C. W. Arbuthnot. No. 989,106; Apr. 11; Sp. p. 1713; Gaz. vol. 165; p. 298.
Concentrating-trap. G. Gundaker. No. 1,005,828; Oct. 17; Sp. p. 2753; Gaz. vol. 171; p. 502.
Concentrator. J. P. Ibson. No. 981,194; Jan. 10; Sp. p. 2313; Gaz. vol. 162; p. 382.
Concentrator. N. H. Freeman. No. 983,488; Feb. 7; Sp. p. 496; Gaz. vol. 163; p. 79.
Concentrator. W. A. Butchart. No. 997,235; July 4; Sp. p. 1340; Gaz. vol. 168; p. 219.
Concentrator. W. A. Butchart. No. 1,000,579; Aug. 15; Sp. p. 2940; Gaz. vol. 169; p. 538.
Concentrator. W. P. Ogden. No. 1,004,187; Sept. 26; Sp. p. 4449; Gaz. vol. 170; p. 787.
Concentrator. B. F. Cobb. No. 1,010,348; Nov. 28; Sp. p. 5909; Gaz. vol. 172; p. 1052.
Concentrator and amalgamator. W. M. Nesbit and E. Pike. No. 989,396; Apr. 11; Sp. p. 2343; Gaz. vol. 165; p. 396.
Concentrator and amalgamator. R. T. Carter. No. 1,006,433; Oct. 17; Sp. p. 4103; Gaz. vol. 171; p. 715.
Concentrator, Centrifugal. L. E. Jones. No. 992,876; May 23; Sp. p. 4384; Gaz. vol. 166; p. 805.
Concentrator, Dry. S. K. Behrend. No. 983,803; Feb. 7; Sp. p. 1164; Gaz. vol. 163; p. 186.
Concentrator-table. R. T. Schraubstadter. No. 1,006,293; Oct. 17; Sp. p. 3811; Gaz. vol. 171; p. 668.
Concrete and cement construction framing. W. Henderson. No. 984,216; Feb. 14; Sp. p. 2101; Gaz. vol. 163; p. 357.
Concrete and like materials, Apparatus for mixing and delivering. S. Clarke and R. Welcker. No. 995,422; June 13; Sp. p. 2886; Gaz. vol. 167; p. 490.
Concrete and similar structures, Reinforcing-bar for. W. C. Coryell. No. 1,002,565; Sept. 5; Sp. p. 862; Gaz. vol. 170; p. 127.
Concrete and steel tie. A. Westing. No. 987,520; Mar. 21; Sp. p. 3702; Gaz. vol. 164; p. 661.
Concrete and the product thereof, Mixing and preparing hydraulic cement. L. W. Page. No. 1,000,545; Aug. 15; Sp. p. 2858; Gaz. vol. 169; p. 524.
Concrete arch-blocks, Mold for making. W. C. Holden. No. 1,002,583; Sept. 5; Sp. p. 898; Gaz. vol. 170; p. 133.
Concrete-batch mixers, Loader for. W. R. Tuttle. No. 994,802; June 13; Sp. p. 1539; Gaz. vol. 167; p. 282.
Concrete beams, Manufacture of reinforced-. A. Ghira. No. 1,010,250; Nov. 28; Sp. p. 5704; Gaz. vol. 172; p. 1020.
Concrete block for watering-tanks. C. B. Ingraham. No. 1,001,273; Aug. 22; Sp. p. 4457; Gaz. vol. 169; p. 809.
Concrete-block-forming machine. S. Strong. No. 1,000,207; Aug. 8; Sp. p. 2110; Gaz. vol. 169; p. 375.
Concrete-block-making machine. G. W. Kramer. No. 981,929; Jan. 17; Sp. p. 3932; Gaz. vol. 162; p. 659.
Concrete-block-making machine. F. B. Williams. No. 1,004,327; Sept. 26; Sp. p. 4713; Gaz. vol. 170; p. 833.
Concrete-block-making machine. G. H. Burges and J. Curtis. No. 1,005,595; Oct. 10; Sp. p. 2267; Gaz. vol. 171; p. 390.
Concrete-block mold. A. E. Potter. No. 987,319; Mar. 21; Sp. p. 3303; Gaz. vol. 164; p. 593.
Concrete-block mold. J. Hartley. No. 990,437; Apr. 25; Sp. p. 4659; Gaz. vol. 165; p. 819.
Concrete-block-molding device. C. A. Perfect. No. 989,721; Apr. 18; Sp. p. 3058; Gaz. vol. 165; p. 539.
Concrete bodies, Making metallic cores for. H. Eberlein. No. 982,485; Jan. 24; Sp. p. 5109; Gaz. vol. 162; p. 881.
Concrete, Bonding. S. W. Flesheim. No. 1,012,832; Dec. 26; Sp. p. 5413; Gaz. vol. 173; p. 960.
Concrete brick and block molding apparatus. F. Gutteridge. No. 1,001,022; Aug. 22; Sp. p. 3954; Gaz. vol. 169; p. 726.
Concrete building and making the same. D. J. Andrew. No. 983,597; Feb. 7; Sp. p. 747; Gaz. vol. 163; p. 117.
Concrete-building-block-making machine. G. W. Kramer. No. 981,928; Jan. 17; Sp. p. 3923; Gaz. vol. 162; p. 658.
Concrete building construction. F. R. Hodge. No. 999,030; July 25; Sp. p. 5342; Gaz. vol. 168; p. 951.
Concrete building-work, Apparatus for forming. L. Callahan. No. 986,134; Mar. 7; Sp. p. 788; Gaz. vol. 164; p. 128.
Concrete buildings, Constructing. G. E. Richmond. No. 984,491; Feb. 14; Sp. p. 2661; Gaz. vol. 163; p. 448.
Concrete cement post. C. F. Busse. No. 1,006,718; Oct. 24; Sp. p. 4741; Gaz. vol. 171; p. 845.
Concrete, Coating. C. Ellis. No. 999,493; Aug. 1; Sp. p. 588; Gaz. vol. 169; p. 102.
Concrete column. J. A. McKee. No. 986,733; Mar. 14; Sp. p. 2070; Gaz. vol. 164; p. 362.
Concrete column, Reinforced-. T. H. Skinner. No. 1,008,209; Nov. 7; Sp. p. 1204; Gaz. vol. 172; p. 197.
Concrete-column mold. H. J. Eberle. No. 982,769; Jan. 24; Sp. p. 5685; Gaz. vol. 162; p. 975.
Concrete columns, piers, and the like, Sinking. C. B. Christiansen. No. 983,808; Feb. 7; Sp. p. 1172; Gaz. vol. 163; p. 188.
Concrete composition. J. M. Rauhoff. No. 1,000,944; Aug. 15; Sp. p. 3713; Gaz. vol. 169; p. 665.
Concrete, Composition for coating molds for. W. W. Bennett and C. S. Pilkington. No. 1,004,844; Oct. 3; Sp. p. 646; Gaz. vol. 171; p. 105.
Concrete conduit, Reinforced-. M. D. Pratt. No. 1,001,682; Aug. 29; Sp. p. 5302; Gaz. vol. 169; p. 980.
Concrete conduits, Form for molding reinforced-. G. W. Cross. No. 1,007,187; Oct. 31; Sp. p. 5826; Gaz. vol. 171; p. 1064.
Concrete construction. J. E. Conzelman. No. 992,733; May 16; Sp. p. 4064; Gaz. vol. 166; p. 726.
Concrete construction. J. E. Conzelman. No. 992,734; May 16; Sp. p. 4068; Gaz. vol. 166; p. 726.
Concrete construction. J. E. Conzelman. No. 1,008,587; Nov. 14; Sp. p. 2176; Gaz. vol. 172; p. 371.
Concrete construction. A. J. Meier. No. 1,008,606; Nov. 14; Sp. p. 2219; Gaz. vol. 172; p. 378.
Concrete construction, Adjustable clamp employed in structural-. P. Wilkes. No. 985,086; Feb. 21; Sp. p. 3900; Gaz. vol. 163; p. 689.
Concrete construction for posts and columns, Reinforced. J. Rubello and J. Santi. No. 987,172; Mar. 21; Sp. p. 2982; Gaz. vol. 164; p. 541.
Concrete construction, Insert for. W. J. Ahern. No. 1,004,226; Sept. 26; Sp. p. 4522; Gaz. vol. 170; p. 800.
Concrete-construction mold. H. C. Seipp. No. 986,767; Mar. 14; Sp. p. 2145; Gaz. vol. 164; p. 373.
Concrete construction, Reinforced. H. L. Lewen. No. 986,474; Mar. 14; Sp. p. 1521; Gaz. vol. 164; p. 273.
Concrete construction, Reinforced. F. A. Berne. No. 989,830; Apr. 18; Sp. p. 3306; Gaz. vol. 165; p. 577.
Concrete construction, Reinforced. S. Giletti. No. 991,971; May 9; Sp. p. 2425; Gaz. vol. 166; p. 432.
Concrete construction, Reinforced. H. L. Lewen. No. 995,069; June 13; Sp. p. 2150; Gaz. vol. 167; p. 373.
Concrete construction, Reinforced. D. B. Luten. No. 999,663; Aug. 1; Sp. p. 917; Gaz. vol. 169; p. 160.
Concrete construction, Steel-skeleton. C. A. P. Turner. No. 985,119; Feb. 21; Sp. p. 3964; Gaz. vol. 163; p. 700.
Concrete construction, Steel-skeleton. C. A. P. Turner. No. 1,003,384; Sept. 12; Sp. p. 2607; Gaz. vol. 170; p. 448.
Concrete construction, System of. P. Aylett. No. 984,878; Feb. 21; Sp. p. 3503; Gaz. vol. 163; p. 619.
Concrete-construction truss-bar. D. Maxwell. No. 994,325; June 6; Sp. p. 459; Gaz. vol. 167; p. 79.
Concrete constructions, Reinforcement for. H. Brussel. No. 994,091; May 30; Sp. p. 6969; Gaz. vol. 166; p. 1250.
Concrete conveyer and distributer. G. Mingo. No. 991,450; May 2; Sp. p. 1322; Gaz. vol. 166; p. 221.
Concrete cross-tie, Reinforced-. W. D. Forsyth. No. 996,634; July 4; Sp. p. 83; Gaz. vol. 168; p. 15.
Concrete culvert. R. J. Burns. No. 995,659; June 20; Sp. p. 3422; Gaz. vol. 167; p. 603.
Concrete dam. W. S. Morton. No. 1,001,427; Aug. 22; Sp. p. 4790; Gaz. vol. 169; p. 863.
Concrete fence. P. Holmberg. No. 983,367; Feb. 7; Sp. p. 241; Gaz. vol. 163; p. 41.
Concrete fence. W. S. Laney. No. 1,012,868; Dec. 26; Sp. p. 5499; Gaz. vol. 173; p. 972.
Concrete fence-post. J. Offenhauser. No. 1,012,419; Dec. 19; Sp. p. 4509; Gaz. vol. 173; p. 772.
Concrete floating body. A. Holm. No. 991,780; May 9; Sp. p. 2031; Gaz. vol. 166; p. 366.
Concrete floor. J. S. Hagan. No. 985,165; Feb. 28; Sp. p. 4123; Gaz. vol. 163; p. 751.
Concrete floor and ceiling, Reinforced-. G. M. Graham. No. 1,007,557; Oct. 31; Sp. p. 6614; Gaz. vol. 171; p. 1193.
Concrete-floor construction. F. C. Taxis. (Reissue.) No. 13,252; May 30; Sp. p. 7021; Gaz. vol. 166; p. 1261.
Concrete-floor construction. C. B. Asher. No. 1,006,423; Oct. 17; Sp. p. 4084; Gaz. vol. 171; p. 712.
Concrete-floor construction. C. B. Asher. No. 1,006,424; Oct. 17; Sp. p. 4087; Gaz. vol. 171; p. 713.
Concrete-flooring construction. J. G. Zwicker. No. 1,007,624; Oct. 31; Sp. p. 6754; Gaz. vol. 171; p. 1214.
Concrete-flooring-member mold. J. G. Zwicker. No. 1,007,623; Oct. 31; Sp. p. 6752; Gaz. vol. 171; p. 1214.
Concrete-form. I. W. McCallum. No. 1,005,261; Oct. 10; Sp. p. 1495; Gaz. vol. 171; p. 272.
Concrete-form, Adjustable. B. F. Seibert. No. 991,755; May 9; Sp. p. 1988; Gaz. vol. 166; p. 357.
Concrete grave-vault. G. H. Killian. No. 1,012,863; Dec. 26; Sp. p. 5489; Gaz. vol. 173; p. 971.
Concrete land-roller. J. M. Da Vier. No. 1,012,612; Dec. 26; Sp. p. 4910; Gaz. vol. 173; p. 884.
Concrete-laying apparatus. A. Gibb and T. G. Menzies. No. 1,004,410; Sept. 26; Sp. p. 4880; Gaz. vol. 170; p. 861.
Concrete lining for mine-shafts and manufacture thereof, Reinforced-. C. Scholz. No. 1,006,799; Oct. 24; Sp. p. 4936; Gaz. vol. 171; p. 874.
Concrete, Lining shafts with. E. Lardy. No. 1,003,140; Sept. 12; Sp. p. 2102; Gaz. vol. 170; p. 362.
Concrete manholes, Forming. C. S. Lambie. No. 992,782; May 23; Sp. p. 4177; Gaz. vol. 166; p. 771.
Concrete-mixer. M. H. Reed. No. 981,111; Jan. 10; Sp. p. 2133; Gaz. vol. 162; p. 352.
Concrete-mixer. A. W. Ransome. No. 982,020; Jan. 17; Sp. p. 4135; Gaz. vol. 162; p. 690.

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Concrete-mixer. A. J. Fisher. No. 987,974; Mar. 28; Sp. p. 4751; Gaz. vol. 164; p. 847.
Concrete-mixer. M. H. Reed. No. 994,536; June 6; Sp. p. 900; Gaz. vol. 167; p. 149.
Concrete-mixer. C. C. Turner. No. 995,047; June 13; Sp. p. 2099; Gaz. vol. 167; p. 365.
Concrete-mixer. H. M. Capron. No. 1,003,088; Sept. 12; Sp. p. 2002; Gaz. vol. 170; p. 344.
Concrete-mixer. M. Conroy. No. 1,003,400; Sept. 12; Sp. p. 2637; Gaz. vol. 170; p. 453.
Concrete-mixer. O. I. Overturf. No. 1,004,586; Oct. 3; Sp. p. 76; Gaz. vol. 171; p. 14.
Concrete-mixer. C. H. Foley. No. 1,004,766; Oct. 3; Sp. p. 472; Gaz. vol. 171; p. 78.
Concrete-mixer. H. Pocock. No. 1,005,302; Oct. 10; Sp. p. 1597; Gaz. vol. 171; p. 287.
Concrete-mixer. I. K. Shero. No. 1,012,729; Dec. 26; Sp. p. 5167; Gaz. vol. 173; p. 925.
Concrete-mixer charging device. T. L. Smith and E. W. Meyer. No. 985,751; Feb. 28; Sp. p. 5430; Gaz. vol. 163; p. 952.
Concrete-mixer feed-regulator. O. P. Raber and I. Crogg. No. 980,834; Jan. 3; Sp. p. 1402; Gaz. vol. 162; p. 225.
Concrete-mixer loader. J. Du Shane. No. 990,194; Apr. 18; Sp. p. 4068; Gaz. vol. 165; p. 699.
Concrete-mixer, Sectional gravity. F. B. Gilbreth. No. 1,004,411; Sept. 26; Sp. p. 4882; Gaz. vol. 170; p. 861.
Concrete-mixers, Cut-off for. C. E. Shero. No. 999,525; Aug. 1; Sp. p. 657; Gaz. vol. 169; p. 113.
Concrete-mixing machine. C. Buchanan and M. Jarvis. No. 1,001,729; Aug. 29; Sp. p. 5394; Gaz. vol. 169; p. 995.
Concrete-mixing machines, Conveyer for. C. M. Fassett. No. 998,763; July 25; Sp. p. 4734; Gaz. vol. 168; p. 856.
Concrete-mold. D. E. Tingley. No. 988,048; Mar. 28; Sp. p. 4908; Gaz. vol. 164; p. 871.
Concrete-mold. D. E. Tingley. No. 988,049; Mar. 28; Sp. p. 4910; Gaz. vol. 164; p. 871.
Concrete-mold. J. W. Westlake. No. 992,312; May 16; Sp. p. 3189; Gaz. vol. 166; p. 580.
Concrete-mold. J. F. Glavin and P. K. Morrissey. No. 992,652; May 16; Sp. p. 3908; Gaz. vol. 166; p. 697.
Concrete-mold. P. W. Hill. No. 1,008,264; Nov. 7; Sp. p. 1327; Gaz. vol. 172; p. 217.
Concrete or cement fence. T. H. Stanley. No. 984,711; Feb. 21; Sp. p. 3179; Gaz. vol. 163; p. 563.
Concrete or like walls, Double-sided framework for the construction of. P. Hedrich. No. 986,565; Mar. 14; Sp. p. 1722; Gaz. vol. 164; p. 305.
Concrete or the like, Apparatus for the distribution of. F. E. Walters. No. 1,009,117; Nov. 21; Sp. p. 3313; Gaz. vol. 172; p. 586.
Concrete panels, Interlocking. W. H. O'Beirne. No. 994,027; May 30; Sp. p. 6841; Gaz. vol. 166; p. 1228.
Concrete pile. G. C. Vernon-Inkpen. No. 996,688; July 4; Sp. p. 179; Gaz. vol. 168; p. 32.
Concrete-pile-molding shell. E. D. Watt. No. 991,121; May 2; Sp. p. 623; Gaz. vol. 166; p. 106.
Concrete pile, Reinforced-. S. F. Burbank. No. 983,677; Feb. 7; Sp. p. 917; Gaz. vol. 163; p. 145.
Concrete piles, columns, or the like, Machine for making reinforced-. A. C. Chenoweth. No. 984,747; Feb. 21; Sp. p. 3252; Gaz. vol. 163; p. 575.
Concrete piles, Forming. F. L. Pruyn. No. 980,436; Jan. 3; Sp. p. 537; Gaz. vol. 162; p. 91.
Concrete piles, Forming. R. J. Beall, Jr. No. 999,431; Aug. 1; Sp. p. 472; Gaz. vol. 169; p. 82.
Concrete piles or columns, Mold for. S. F. Burbank. No. 983,678; Feb. 7; Sp. p. 918; Gaz. vol. 163; p. 145.
Concrete piling for bulkheads. H. H. Tuthill. No. 1,004,828; Oct. 3; Sp. p. 599; Gaz. vol. 171; p. 99.
Concrete-piling retaining-wall structure. M. M. Upson. No. 981,822; Jan. 17; Sp. p. 3672; Gaz. vol. 162; p. 621.
Concrete pipe and making same, Sectional. A. M. Hirsh. No. 1,004,570; Oct. 3; Sp. p. 49; Gaz. vol. 171; p. 10.
Concrete-pipe-molding apparatus. W. H. Kipp and H. Berger. No. 995,354; June 13; Sp. p. 2729; Gaz. vol. 167; p. 466.
Concrete pipe, Reinforced metal-flanged. J. Hickson. No. 1,009,840; Nov. 28; Sp. p. 4886; Gaz. vol. 172; p. 882.
Concrete pole. E. M. Elliott. No. 994,912; June 13; Sp. p. 1818; Gaz. vol. 167; p. 320.
Concrete pole, Reinforced-. R. Wolle. No. 993,136; May 23; Sp. p. 4949; Gaz. vol. 166; p. 896.
Concrete pole, Reinforced-. E. L. Williams. No. 993,427; May 30; Sp. p. 5572; Gaz. vol. 166; p. 1023.
Concrete post. W. H. Moore. No. 1,013,039; Dec. 26; Sp. p. 5888; Gaz. vol. 173; p. 1029.
Concrete-post mold. H. B. and L. A. Shultz. No. 987,499; Mar. 21; Sp. p. 3668; Gaz. vol. 164; p. 654.
Concrete priming and coating composition. C. Ellis. No. 1,006,737; Oct. 24; Sp. p. 4786; Gaz. vol. 171; p. 851.
Concrete products, Machine for the manufacture of. F. F. Landis. No. 995,690; June 20; Sp. p. 3479; Gaz. vol. 167; p. 613.
Concrete railway cross-tie. A. F. Wilson. No. 1,002,617; Sept. 5; Sp. p. 984; Gaz. vol. 170; p. 146.
Concrete railway-tie. W. H. Haslet. No. 984,912; Feb. 21; Sp. p. 3574; Gaz. vol. 163; p. 630.
Concrete railway-tie. J. J. Brereton. No. 991,420; May 2; Sp. p. 1261; Gaz. vol. 166; p. 211.
Concrete railway-tie. J. E. Bossingham. No. 993,500; May 30; Sp. p. 5733; Gaz. vol. 166; p. 1047.
Concrete railway-tie. J. F. Herbert. No. 996,598; June 27; Sp. p. 5479; Gaz. vol. 167; p. 958.
Concrete railway-tie. W. H. Pruyn, Jr. No. 998,550; July 18; Sp. p. 4220; Gaz. vol. 168; p. 748.
Concrete railway-tie. M. A. Lewis. No. 1,004,046; Sept 26; Sp. p. 4104; Gaz. vol. 170; p. 738.
Concrete railway-tie. L. C. Mooney. No. 1,004,583; Oct. 3; Sp. p. 69; Gaz. vol. 171; p. 13.
Concrete railway-tie. L. N. Buell and J. E. Wheeler. No. 1,005,150; Oct. 10; Sp. p. 1230; Gaz. vol. 171; p. 230.
Concrete railway-tie and rail-fastening, Reinforced-. D. W. Hartsaw. No. 991,615; May 9; Sp. p. 1701; Gaz. vol. 166; p. 312.
Concrete railway-tie and rail-securing means, Reinforced-. E. R. Pollard. No. 1,012,152; Dec. 19; Sp. p. 3953; Gaz. vol. 173; p. 683.
Concrete railway-tie, Reinforced-. J. F. A. Ault. No. 1,010,399; Nov. 28; Sp. p. 6026; Gaz. vol. 172; p. 1068.
Concrete railway-track support. A. Stark. No. 991,906; May 9; Sp. p. 2299; Gaz. vol. 166; p. 409.
Concrete, Reinforced. G. M. Graham. No. 983,274; Feb. 7; Sp. p. 33; Gaz. vol. 163; p. 7.
Concrete, Reinforced. T. H. Skinner. No. 996,288; June 27; Sp. p. 4809; Gaz. vol. 167; p. 853.
Concrete, Reinforced. W. F. Scott. No. 1,001,462; Aug. 22; Sp. p. 4845; Gaz. vol. 169; p. 874.
Concrete reinforcement. C. J. Mogan. No. 984,775; Feb. 21; Sp. p. 3321; Gaz. vol. 163; p. 585.
Concrete reinforcement. R. W. Dull. No. 985,734; Feb. 28; Sp. p. 5400; Gaz. vol. 163; p. 946.
Concrete reinforcement. E. McClure. No. 992,970; May 23; Sp. p. 4602; Gaz. vol. 166; p. 839.
Concrete, Reinforcing. G. S. Gallagher. No. 997,493; July 11; Sp. p. 1850; Gaz. vol. 168; p. 334.
Concrete-reinforcing device. C. A. Hanson. No. 980,414; Jan. 3; Sp. p. 483; Gaz. vol. 162; p. 83.
Concrete-reinforcing means. J. F. Havemeyer. No. 1,000,519; Aug. 15; Sp. p. 2790; Gaz. vol. 169; p. 515.
Concrete roadway. E. M. Chadbourne. No. 982,247; Jan. 24; Sp. p. 4581; Gaz. vol. 162; p. 796.
Concrete roadway. E. M. Chadbourne. No. 994,092; May 30; Sp. p. 6971; Gaz. vol. 166; p. 1250.
Concrete sewers and tunnels, Mold for building. C. H. Witthoefft. No. 1,003,847; Sept. 19; Sp. p. 3596; Gaz. vol. 170; p. 640.
Concrete shingles and the like, Machine for making. T. G. Brawley. No. 1,004,553; Oct. 3; Sp. p. 5; Gaz. vol. 171; p. 4.
Concrete sidewalks, Knockdown metal form for. H. M. Naugle. No. 995,630; June 20; Sp. p. 3357; Gaz. vol. 167; p. 592.
Concrete silos, Mold for forming. C. A. Anderson. No. 984,993; Feb. 21; Sp. p. 3716; Gaz. vol. 163; p. 657.
Concrete-spreader for ditches, sidewalks, and other surfaces. G. W. Gale No. 992,649; May 16; Sp. p. 3902; Gaz. vol. 166; p. 696.
Concrete-step mold. J. D. Smock. No. 1,012,735; Dec. 26; Sp. p. 5180; Gaz. vol. 173; p. 928.
Concrete structure. J. A. Ferguson. No. 983,699; Feb. 7; Sp. p. 958; Gaz. vol. 163; p. 152.
Concrete structure. R. Anderson. No 1,009,712; Nov. 28; Sp. p. 4617; Gaz. vol. 172; p. 839.
Concrete-structure bolster. J. J. Lankford. No. 992,430; May 16; Sp. p. 3450; Gaz. vol. 166; p. 620.
Concrete-structure mold. J. S. Linton. No. 996,419; June 27; Sp. p. 5134; Gaz. vol. 167; p. 899.
Concrete structure, Reinforced. W. J. Stewart. No. 985,640; Feb. 28; Sp. p. 5168; Gaz. vol. 163; p. 914.
Concrete structure, Reinforced. W. C. Sauer. No. 988,951; Apr. 4; Sp. p. 1379; Gaz. vol. 165; p. 221.
Concrete structure, Reinforced. D. W. Daley. No. 990,963; May 2; Sp. p. 291; Gaz. vol. 166; p. 50.
Concrete structure, Reinforced. T. H. Skinner. No. 1,008,210; Nov. 7; Sp. p. 1206; Gaz. vol. 172; p. 198.
Concrete structures, Fitting for reinforced. G. M. Graham. No. 1,007,556; Oct. 31; Sp. p. 6613; Gaz. vol. 171; p. 1192.
Concrete structures, Interior mold or form for. F. S. Graef. No. 983,046; Jan. 31; Sp. p. 6317; Gaz. vol. 162; p. 1098.
Concrete structures, Reinforcement for. H. F. Cobb. No. 989,120; Apr. 11; Sp. p. 1737; Gaz. vol. 165; p. 303.
Concrete structures, Reinforcing-frame for. G. M. Graham. No. 1,007,558; Oct. 31; Sp. p. 6615; Gaz. vol. 171; p. 1193.
Concrete structures, Reinforcing means for. R. Anderson. No. 981,516; Jan. 10; Sp. p. 3032; Gaz. vol. 162; p. 494.
Concrete telegraph-pole, Sectional. W. J. W. Orr. No. 1,012,423; Dec. 19; Sp. p. 4515; Gaz. vol. 173; p. 773.
Concrete tie. C. E. Markham. No. 1,002,719; Sept. 5; Sp. p. 1204; Gaz. vol. 170; p. 180.
Concrete tie. W. F. Black. No. 1,004,351; Sept. 26; Sp. p. 4762; Gaz. vol. 170; p. 842.

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Concrete timbering for mine-shafts, Metal-reinforced-. D. W. Shepard. No. 992,073; May 9; Sp. p. 2613; Gaz. vol. 166; p. 465.
Concrete-tunnel-molding apparatus. C. H. Witthoefft. No. 1,004,615; Oct. 3; Sp. p. 148; Gaz. vol. 171; p. 26.
Concrete walks, floors, curbs, gutters, &c., Form for the construction of. M. S. Hotchkiss. No. 985,055; Feb. 21; Sp. p. 3802; Gaz. vol. 163; p. 671.
Concrete wall and like structure, Reinforced-. G. W. Jackson. No. 995,008; June 13; Sp. p. 2010; Gaz. vol. 167; p. 352.
Concrete-wall construction. F. J. Hardecker. No. 1,006,478; Oct. 24; Sp. p. 4235; Gaz. vol. 171; p. 761.
Concrete-wall mold. A. C. Nielsen. No. 991,635; May 9; Sp. p. 1737; Gaz. vol. 166; p. 319.
Concrete-wall-molding device. W. A. Fry, W. C. Darby, and T. H. Kershaw. No. 1,003,591; Sept. 19; Sp. p. 3066; Gaz. vol. 170; p. 553.
Concrete-wall-molding device. R. W. Fuller. No. 1,005,016; Oct. 3; Sp. p. 979; Gaz. vol. 171; p. 163.
Concrete walls, Collapsible core for constructing hollow. W. T. Redman. No. 994,336; June 6; Sp. p. 482; Gaz. vol. 167; p. 83.
Concrete walls, subways, &c., in the earth, Constructing. G. W. Jackson. No. 1,007,287; Oct. 31; Sp. p. 6022; Gaz. vol. 171; p. 1099.
Concrete water-tank. J. H. McCoy. No. 982,080; Jan. 17; Sp. p. 4262; Gaz. vol. 162; p. 710.
Concrete water-tank. J. H. McCoy. No. 982,081; Jan. 17; Sp. p. 4263; Gaz. vol. 162; p. 710.
Concrete, &c., Waterproofing-coating composition for. C. Ellis. No. 999,708; Aug. 1; Sp. p. 1002; Gaz. vol. 169; p. 175.
Concrete-work, Centering for. L. G. Hallberg. No. 982,055; Jan. 17; Sp. p. 4208; Gaz. vol. 162; p. 701.
Concrete-work, Device for making expansion-joints in. T. E. Dockery. No. 1,001,626; Aug. 29; Sp. p. 5175; Gaz. vol. 169; p. 959.
Concrete-work, Iron or nosing for. E. W. Thompson. No. 1,011,274; Dec. 12; Sp. p. 1986; Gaz. vol. 173; p. 341.
Concrete-work permanently water-tight, Making. H. J. Livingston. No. 1,008,975; Nov. 14; Sp. p. 3004; Gaz. vol. 172; p. 501.
Condenser. E. Wiki. No. 982,404; Jan. 24; Sp. p. 4921; Gaz. vol. 162; p. 852.
Condenser. E. Wiki. No. 982,405; Jan. 24; Sp. p. 4924; Gaz. vol. 162; p. 853.
Condenser. M. Leblanc. No. 984,278; Feb. 14; Sp. p. 2240; Gaz. vol. 163; p. 379.
Condenser. M. Leblanc. No. 984,279; Feb. 14; Sp. p. 2245; Gaz. vol. 163; p. 379.
Condenser. M. Leblanc. No. 984,435; Feb. 14; Sp. p. 2539; Gaz. vol. 163; p. 430.
Condenser. E. Fisher, Jr. No. 988,991; Apr. 11; Sp. p. 1476; Gaz. vol. 165; p. 259.
Condenser. M. Leblanc. No. 990,278; Apr. 25; Sp. p. 4266; Gaz. vol. 165; p. 760.
Condenser. J. J. Hoppes. No. 995,462; June 20; Sp. p. 2975; Gaz. vol. 167; p. 531.
Condenser. J. M. Thompson. No. 999,417; Aug. 1; Sp. p. 444; Gaz. vol. 169; p. 78.
Condenser. J. M. Thompson. No. 999,418; Aug. 1; Sp. p. 446; Gaz. vol. 169; p. 79.
Condenser. K. Kuhlmann. No. 1,000,925; Aug. 15; Sp. p. 3671; Gaz. vol. 169; p. 659.
Condenser. M. Leblanc. No. 1,004,664; Oct. 3; Sp. p. 241; Gaz. vol. 171; p. 42.
Condenser, Acid-. F. Moore and J. A. Hall. No. 986,846; Mar. 14; Sp. p. 2313; Gaz. vol. 164; p. 400.
Condenser, Barometric. R. D. Tomlinson. No. 1,002,814; Sept. 5; Sp. p. 1392; Gaz. vol. 170; p. 212.
Condenser-feed lubricator. C. C. Wakefield. No. 986,330; Mar. 7; Sp. p. 1198; Gaz. vol. 164; p. 193.
Condenser for vapors and gases. U. Wedge. No. 1,012,487; Dec. 19; Sp. p. 4634; Gaz. vol. 173; p. 795.
Condenser, Fume-. A. J. Hopper and H. F. Prindle. No. 1,007,356; Oct. 31; Sp. p. 6160; Gaz. vol. 171; p. 1123.
Condenser, Outboard. C. and C. E. Ward. No. 1,000,310; Aug. 8; Sp. p. 2310; Gaz. vol. 169; p. 410.
Condenser, Surface. D. A. Quiggin. No. 989,415; Apr. 11; Sp. p. 2383; Gaz. vol. 165; p. 402.
Condenser system. O. H. Mueller. No. 1,012,268; Dec. 19; Sp. p. 4206; Gaz. vol. 173; p. 722.
Condenser, Vapor-. L. D. Lovekin. No. 983,915; Feb. 14; Sp. p. 1446; Gaz. vol. 163; p. 255.
Condensers or other thermal interchangers and producing the same, Tube for. J. Ely. No. 997,281; July 11; Sp. p. 1441; Gaz. vol. 168; p. 265.
Condensing apparatus. T. Mohn. No. 1,005,997; Oct. 17; Sp. p. 3131; Gaz. vol. 171; p. 562.
Condensing-dome, Reflux. D. H. Christman. No. 1,009,049; Nov. 21; Sp. p. 3172; Gaz. vol. 172; p. 563.
Condensing-engine. J. Stumpf. No. 993,280; May 23; Sp. p. 5236; Gaz. vol. 166; p. 939.
Condiment for Welsh rabbits. D. R. Greene. No. 999,217; Aug. 1; Sp. p. 53; Gaz. vol. 169; p. 11.
Condiment-holder. T. F. Lacy. No. 982,371; Jan. 24; Sp. p. 4858; Gaz. vol. 162; p. 841.
Conducting-cord, Flexible. O. Hoffstrom. No. 988,099; Mar. 28; Sp. p. 5013; Gaz. vol. 164; p. 889.
Conductor-hook. F. Brune. No. 1,002,640; Sept. 5; Sp. p. 1023; Gaz. vol. 170; p. 153.
Conductor, Molded. E. G. Gilson. No. 1,008,535; Nov. 14; Sp. p. 2055; Gaz. vol. 172; p. 351.
Conductor or drain-pipe. W. H. Temme. No. 1,011,669; Dec. 12; Sp. p. 2887; Gaz. vol. 173; p. 482.
Conductor-wire coupling. A. D. Duvall and W. E. Dawson. No. 990,478; Apr. 25; Sp. p. 4731; Gaz. vol. 165; p. 832.
Conductors, Making composite. W. D. Coolidge. No. 1,010,866; Dec. 5; Sp. p. 1048; Gaz. vol. 173; p. 163.
Conductors, Mounting of. K. Schröter. No. 980,843; Jan. 3; Sp. p. 1418; Gaz. vol. 162; p. 227.
Conduit and making same, Composite. W. F. Bowers. No. 1,009,465; Nov. 21; Sp. p. 4120; Gaz. vol. 172; p. 711.
Conduit connections, Marker for underground-. D. E. Olds. No. 1,004,188; Sept. 26; Sp. p. 4452; Gaz. vol. 170; p. 788.
Conduit-creeper. H. Lehman. No. 1,000,825; Aug. 15; Sp. p. 3462; Gaz. vol. 169; p. 624.
Conduit distribution, Interior-. F. W. Erickson. No. 997,282; July 11; Sp. p. 1442; Gaz. vol. 168; p. 265.
Conduit, Flexible. A. E. Chernack. No. 982,248; Jan. 24; Sp. p. 4583; Gaz. vol. 162; p. 796.
Conduit, Flexible. U. S. Armstrong. No. 998,827; July 25; Sp. p. 4860; Gaz. vol. 168; p. 878.
Conduit, Flexible. U. S. Armstrong and J. H. Parker. No. 1,002,481; Sept. 5; Sp. p. 682; Gaz. vol. 170; p. 99.
Conduit, Flexible. H. H. Balliett. No. 1,005,134; Oct. 10; Sp. p. 1196; Gaz. vol. 171; p. 225.
Conduit, High-pressure. A. Drees. No. 980,929; Jan. 10; Sp. p. 1667; Gaz. vol. 162; p. 289.
Conduit joint, Metallic-. A. G. Elvin. No. 998,884; July 25; Sp. p. 5014; Gaz. vol. 168; p. 900.
Conduit, Jointed. A. G. Elvin. No. 998,883; July 25; Sp. p. 5011; Gaz. vol. 168; p. 899.
Conduit, Vapor-. J. E. Lockwood and E. Seitz. No. 986,476; Mar. 14; Sp. p. 1524; Gaz. vol. 164; p. 274.
Conduits, Form for molded. H. W. Bassett. No. 990,417; Apr. 25; Sp. p. 4609; Gaz. vol. 165; p. 811.
Cone-aspirator. J. B. Cornwall. No. 997,372; July 11; Sp. p. 1629; Gaz. vol. 168; p. 295.
Cone-tube. C. Gess. No. 986,379; Mar. 7; Sp. p. 1311; Gaz. vol. 164; p. 211.
Confection. A. J. Meier. No. 996,024; June 20; Sp. p. 4190; Gaz. vol. 167; p. 728.
Confection-cone case. P. E. Waldvogel. No. 986,610; Mar. 14; Sp. p. 1815; Gaz. vol. 164; p. 321.
Confection-immersing machine. C. Bertolotti and D. Piccardo. No. 1,004,232; Sept. 26; Sp. p. 4532; Gaz. vol. 170; p. 802.
Confection-marking machine. C. Bertolotti and D. Piccardo. No. 1,004,233; Sept. 26; Sp. p. 4538; Gaz. vol. 170; p. 803.
Confections, Machine for decorating. W. F. Walker. No. 990,175; Apr. 18; Sp. p. 4020; Gaz. vol. 165; p. 692.
Confections, Stringing device for making. F. H. Page. No. 991,799; May 9; Sp. p. 2074; Gaz. vol. 166; p. 372.
Confectionery-machine. S. Pooley. No. 1,010,174; Nov. 28; Sp. p. 5550; Gaz. vol. 172; p. 994.
Confectionery machinery. S. Pooley. No. 1,010,175; Nov. 28; Sp. p. 5555; Gaz. vol. 172; p. 995.
Confectionery machinery. T. and D. Kihlgren. No. 1,011,444; Dec. 12; Sp. p. 2340; Gaz. vol. 173; p. 400.
Confectionery-machinery apron. T. and D. Kihlgren. No. 1,009,670; Nov. 21; Sp. p. 4511; Gaz. vol. 172; p. 777.
Conformator. E. M. D. Landenberger. No. 1,012,372; Dec. 19; Sp. p. 4422; Gaz. vol. 173; p. 757.
Conforming-gage. D. S. Humphrey. No. 1,008,826; Nov. 14; Sp. p. 2695; Gaz. vol. 172; p. 453.
Connecting articles to be transported to a traveling rope or chain with bosses, Apparatus for. G. Matricardi. No. 996,355; June 27; Sp. p. 4976; Gaz. vol. 167; p. 876.
Connecting device. J. W. Lawhead. No. 985,608; Feb. 28; Sp. p. 5114; Gaz. vol. 163; p. 904.
Connecting device. J. W. Lawhead. No. 998,911; July 25; Sp. p. 5066; Gaz. vol. 168; p. 909.
Connecting device. J. W. Lawhead. No. 1,006,664; Oct. 24; Sp. p. 4645; Gaz. vol. 171; p. 828.
Connecting device. C. B. Albree. No. 1,006,895; Oct. 24; Sp. p. 5172; Gaz. vol. 171; p. 909.
Connecting device, Adjustable. H. F. Roach. No. 990,594; Apr. 25; Sp. p. 5006; Gaz. vol. 165; p. 872.
Connecting-rod. C. Markel. No. 1,010,287; Nov. 28; Sp. p. 5792; Gaz. vol. 172; p. 1032.
Connecting-rod, Safety. S. W. Hayes. No. 985,672; Feb. 28; Sp. p. 5230; Gaz. vol. 163; p. 924.
Connecting-rod, Steel. L. W. Coppock. No. 1,006,632; Oct. 24; Sp. p. 4585; Gaz. vol. 171; p. 817.
Connecting-rods, Forming steel. L. W. Coppock. No. 986,547; Mar. 14; Sp. p. 1681; Gaz. vol. 164; p. 298.
Connection adjustment. S. W. Hayes. No. 985,673; Feb. 28; Sp. p. 5232; Gaz. vol. 163; p. 924.
Connection-block. W. E. McCoy. No. 993,311; May 23; Sp. p. 5294; Gaz. vol. 166; p. 950.
Connection, Releasable. E. S. Clough. No. 997,438; July 11; Sp. p. 1746; Gaz. vol. 168; p. 317.
Connector. E. Mattman. No. 1,000,031; Aug. 8; Sp. p. 1680; Gaz. vol. 169; p. 315.

Alphabetical list of inventions—Continued.

Constant-temperature bath. T. B. Freas. No. 999,710; Aug. 1; Sp. p. 1008; Gaz. vol. 169; p. 175.
Contact-breaker for magneto-electric igniting apparatus. G. A. Unterberg. No. 981,599; Jan. 10; Sp. p. 3196; Gaz. vol. 162; p. 522.
Contact breaker, Mercury-. L. Baumeister. No. 1,000,320; Aug. 8; Sp. p. 2336; Gaz. vol. 169; p. 413.
Contact-disk. E. L. Moses. No. 990,158; Apr. 18; Sp. p. 3983; Gaz. vol. 165; p. 687.
Contact-finger. H. A. Steen. No. 991,661; May 9; Sp. p. 1806; Gaz. vol. 166; p. 328.
Contact-finger. E. E. Rose. No. 1,005,316; Oct. 10; Sp. p. 1632; Gaz. vol. 171; p. 292.
Contact making and breaking device. J. Lundgren. No. 981,595; Jan. 10; Sp. p. 3188; Gaz. vol. 162; p. 520.
Contact mass, Making a. J. W. Beckman. No. 1,007,516; Oct. 31; Sp. p. 6519; Gaz. vol. 171; p. 1179.
Contact, Screwless spring. H. Wilhelm. No. 996,303; June 27; Sp. p. 4861; Gaz. vol. 167; p. 857.
Contact-shoe. R. T. and F. T. Jones. No. 987,991; Mar. 28; Sp. p. 4783; Gaz. vol. 164; p. 853.
Container. W. W. Beals. No. 985,322; Feb. 28; Sp. p. 4474; Gaz. vol. 163; p. 805.
Container. W. F. Moore. No. 988,804; Apr. 4; Sp. p. 1100; Gaz. vol. 165; p. 175.
Container. G. A. Humphrey. No. 1,007,872; Nov. 7; Sp. p. 519; Gaz. vol. 172; p. 79.
Container-body-forming machine. F. C. Osborn. No. 996,122; June 27; Sp. p. 4408; Gaz. vol. 167; p. 798.
Container-closing machine. R. S. Clarke. No. 992,112; May 9; Sp. p. 2701; Gaz. vol. 166; p. 478.
Container, Collapsible. T. F. Tansey. No. 1,005,083; Oct. 3; Sp. p. 1094; Gaz. vol. 171; p. 185.
Container-holder. W. B. Williams. No. 1,007,319; Oct. 31; Sp. p. 6069; Gaz. vol. 171; p. 1110.
Container or receptacle. D. F. Anderson. No. 1,000,880; Aug. 15; Sp. p. 3582; Gaz. vol. 169; p. 643.
Container or receptacle. D. F. Anderson. No. 1,006,342; Oct. 17; Sp. p. 3910; Gaz. vol. 171; p. 684.
Containers of fibrous material, Treating. C. M. Gage. No. 1,007,086; Oct. 31; Sp. p. 5579; Gaz. vol. 171; p. 1026.
Containing vessel. E. D. Chellis. No. 1,006,720; Oct. 24; Sp. p. 4745; Gaz. vol. 171; p. 845.
Continuous kiln. G. E. Goldner. No. 1,011,050; Dec. 5; Sp. p. 1417; Gaz. vol. 173; p. 225.
Continuous kiln with traveling hearth. J. Rappold. No. 981,109; Jan. 10; Sp. p. 2130; Gaz. vol. 162; p. 352.
Contour-interpolator. J. R. Van Duyne. No. 986,248; Mar. 7; Sp. p. 1031; Gaz. vol. 164; p. 165.
Control mechanism. H. Haudenschild. No. 1,006,749; Oct. 24; Sp. p. 4814; Gaz. vol. 171; p. 856.
Control, Multiple. H. W. Leonard. No. 1,003,923; Sept. 19; Sp. p. 3741; Gaz. vol. 170; p. 667.
Control system. R. P. Jackson. No. 990,985; May 2; Sp. p. 329; Gaz. vol. 166; p. 57.
Control system. R. P. Jackson. No. 999,792; Aug. 8; Sp. p. 1189; Gaz. vol. 169; p. 234.
Control system. H. W. Cheney. No. 1,000,071; Aug. 8; Sp. p. 1782; Gaz. vol. 169; p. 328.
Control system, Distance. L. R. Krumm. No. 1,003,919; Sept. 19; Sp. p. 3734; Gaz. vol. 170; p. 666.
Control system, Electromagnetic. H. L. Smith. No. 998,647; July 25; Sp. p. 4461; Gaz. vol. 168; p. 815.
Control system, Multiple. H. W. Leonard. No. 1,003,927; Sept. 19; Sp. p. 3793; Gaz. vol. 170; p. 668.
Controller. C. E. Lord. No. 983,380; Feb. 7; Sp. p. 264; Gaz. vol. 163; p. 45.
Controller. H. W. Cheney. No. 995,438; June 20; Sp. p. 2929; Gaz. vol. 167; p. 523.
Controller. M. S. Towson. No. 997,520; July 11; Sp. p. 1910; Gaz. vol. 168; p. 342.
Controller. H. A. Steen. No. 1,005,350; Oct. 10; Sp. p. 1706; Gaz. vol. 171; p. 305.
Controller. E. W. Stull. No. 1,012,027; Dec. 19; Sp. p. 3676; Gaz. vol. 173; p. 640.
Controller-box. C. Jass. No. 1,009,668; Nov. 21; Sp. p. 4508; Gaz. vol. 172; p. 776.
Controller-regulator. C. P. Ebersole. No. 980,865; Jan. 3; Sp. p. 1473; Gaz. vol. 162; p. 236.
Controller-regulator. C. P. Ebersole. No. 980,866; Jan. 3; Sp. p. 1476; Gaz. vol. 162; p. 236.
Controller-regulator. J. Y. Porter. No. 995,091; June 13; Sp. p. 2192; Gaz. vol. 167; p. 380.
Controlling device. C. E. Carpenter. No. 985,510; Feb. 28; Sp. p. 4906; Gaz. vol. 163; p. 870.
Controlling device. F. H. Richards. No. 992,252; May 16; Sp. p. 3055; Gaz. vol. 166; p. 558.
Controlling device. H. W. Cheney. No. 992,851; May 23; Sp. p. 4325; Gaz. vol. 166; p. 797.
Controlling mechanism. W. A. Doble. No. 994,505; June 6; Sp. p. 829; Gaz. vol. 167; p. 139.
Controlling mechanism, Automatic. N. Magnuson. No. 1,005,251; Oct. 10; Sp. p. 1471; Gaz. vol. 171; p. 267.
Controlling mechanism, Automatic. H. Cross. No. 1,012,990; Dec. 26; Sp. p. 5790; Gaz. vol. 173; p. 1013.
Converter. L. G. Woods. No. 986,534; Mar. 14; Sp. p. 1650; Gaz. vol. 164; p. 293.
Converter or vessel for refining iron and steel. B. Talbot. No. 990,313; Apr. 25; Sp. p. 4363; Gaz. vol. 165; p. 773.
Converter, Rotary. J. L. Burnham. No. 981,059; Jan. 10; Sp. p. 2035; Gaz. vol. 162; p. 335.
Converter, Rotary. C. P. Steinmetz. No. 981,134; Jan 10; Sp. p. 2191; Gaz. vol. 162; p. 361.
Converters, Preparing bottoms for Thomas. E. J. Planche. No. 1,010,312; Nov. 28; Sp. p. 5841; Gaz. vol. 172; p. 1040.
Convertible chair. A. Reisman. No. 983,768; Feb. 7; Sp. p. 1092; Gaz. vol. 163; p. 175.
Convertible chair. J. L. McKay. No. 989,718; Apr. 18; Sp. p. 3051; Gaz. vol. 165; p. 538.
Convertible chair. M. M. Press. No. 993,101; May 23; Sp. p. 4885; Gaz. vol. 166; p. 885.
Convertible chair. J. H. Tann. No. 993,733; May 30; Sp. p. 6260; Gaz. vol. 166; p. 1130.
Convertible chair. A. Demers. No. 1,010,874; Dec. 5; Sp. p. 1060; Gaz. vol. 173; p. 166.
Convertible chair and table. I. Hoffman. No. 1,002,694; Sept. 5; Sp. p. 1132; Gaz. vol. 170; p. 171.
Convertible chair, Folding. B. W. Pattinson. No. 1,002,305; Sept. 5; Sp. p. 271; Gaz. vol. 170; p. 37.
Convertible rack. W. H. Webler. No. 994,894; June 13; Sp. p. 1775; Gaz. vol. 167; p. 313.
Convertible seat and bed. C. F. Percival. No. 991,535; May 9; Sp. p. 1517; Gaz. vol. 166; p. 282.
Conveyer. C. D. Seeberger. No. 984,304; Feb. 14; Sp. p. 2287; Gaz. vol. 163; p. 388.
Conveyer. C. D. Seeberger. No. 984,495; Feb. 14; Sp. p. 2668; Gaz. vol. 163; p. 449.
Conveyer. C. D. Seeberger. No. 984,858; Feb. 21; Sp. p. 3467; Gaz. vol. 163; p. 613.
Conveyer. F. Briggs. No. 985,107; Feb. 21; Sp. p. 3940; Gaz. vol. 163; p. 696.
Conveyer. V. Johnson. No. 987,302; Mar. 21; Sp. p. 3273; Gaz. vol. 164; p. 588.
Conveyer. H. G. Rossin. No. 988,822; Apr. 4; Sp. p. 1134; Gaz. vol. 165; p. 181.
Conveyer. J. Opfergelt. No. 991,353; May 2; Sp. p. 1128; Gaz. vol. 166; p. 188.
Conveyer. W. Thurman. No. 993,737; May 30; Sp. p. 6266; Gaz. vol. 166; p. 1131.
Conveyer. C. D. Seeberger. No. 994,879; June 13; Sp. p. 1729; Gaz. vol. 167; p. 309.
Conveyer. S. D. Wright. No. 995,648; June 20; Sp. p. 3397; Gaz. vol. 167; p. 598.
Conveyer. E. C. L. Van Wert. No. 999,419; Aug. 1; Sp. p. 448; Gaz. vol. 169; p. 79.
Conveyer. C. A. Morris. No. 1,000,107; Aug. 8; Sp. p. 1891; Gaz. vol. 169; p. 341.
Conveyer. P. Lorillard. No. 1,000,828; Aug. 15; Sp. p. 3467; Gaz. vol. 169; p. 625.
Conveyer. B. Norton. No. 1,004,186; Sept. 26; Sp. p. 4447; Gaz. vol. 170; p. 787.
Conveyer. W. L. Bodman. No. 1,004,976; Oct. 3; Sp. p. 907; Gaz. vol. 171; p. 150.
Conveyer. I. Christ. No. 1,004,993; Oct. 3; Sp. p. 935; Gaz. vol. 171; p. 155.
Conveyer. A. W. Crawford. No. 1.004,997; Oct. 3; Sp. p. 942; Gaz. vol. 171; p. 157.
Conveyer. C. U. Dahlgren. No. 1,008,791; Nov. 14; Sp. p. 2630; Gaz. vol. 172; p. 441.
Conveyer. W. C. Anderson. No. 1,012,046; Dec. 19; Sp. p. 3714; Gaz. vol. 173; p. 647.
Conveyer and inspection-table, Combined. G. D. Barnes, Jr. No. 1,006,455; Oct. 24; Sp. p. 4171; Gaz. vol. 171; p. 753.
Conveyer and mixer. J. A. Thomas. No. 998,048; July 18; Sp. p. 3135; Gaz. vol. 168; p. 570.
Conveyer apparatus for feeding bars of metal to and delivering the same from machines. E. Schellhass. No. 992,264; May 16; Sp. p. 3086; Gaz. vol. 166; p. 562.
Conveyer, Belt. A. B. Proal, Jr. No. 981,471; Jan. 10; Sp. p. 2956; Gaz. vol. 162; p. 479.
Conveyer, Belt. L. Anderson. No. 1,000,974; Aug. 22; Sp. p. 3804; Gaz. vol. 169; p. 709.
Conveyer, Bucket. T. A. Edison. No. 991,433; May 2; Sp. p. 1292; Gaz. vol. 166; p. 216.
Conveyer, Bucket. I. Christ. No. 1.004,992; Oct. 3; Sp. p. 933; Gaz. vol. 171; p. 155.
Conveyer-cleat, Cable-chain. E. Demarest. No. 1,008,890; Nov. 14; Sp. p. 2818; Gaz. vol. 172; p. 474.
Conveyer doors, Double-weight counterbalance for gravity-. G. H. C. Williams. No. 986,336; Mar. 7; Sp. p. 1207; Gaz. vol. 164; p. 195.
Conveyer, Elevated. H. C. Rassmann. No. 992,386; May 16; Sp. p. 3367; Gaz. vol. 166; p. 606.
Conveyer, Endless. F. G. Sargent. No. 1,011,251; Dec. 12; Sp. p. 1924; Gaz. vol. 173; p. 331.
Conveyer, Excavating-. J. Kelly. No. 983,906; Feb. 14; Sp. p. 1425; Gaz. vol. 163; p. 252.
Conveyer flight, Chain-. J. W. Turner. No. 1,001,097; Aug. 22; Sp. p. 4112; Gaz. vol. 169; p. 754.
Conveyer for grading and the like. J. E. Murrock. No. 999,515; Aug. 1; Sp. p. 637; Gaz. vol. 169; p. 110.
Conveyer for incandescent materials. R. Wagner. No. 983,586; Feb. 7; Sp. p. 724; Gaz. vol. 163; p. 113.
Conveyer for transportation of logs, &c. W. O'Neill. No. 1,011,837; Dec. 12; Sp. p. 3230; Gaz. vol. 173; p. 538.
Conveyer hanger, Adjustable screw-. M. H. Emmerich. No. 1,002,378; Sept. 5; Sp. p. 463; Gaz. vol. 170; p. 65.

Conveyer, Pneumatic. F. F. Wear. No. 981,041; Jan. 10; Sp. p. 1986; Gaz. vol. 162; p. 327.
Conveyer, Portable. P. L. Wooster. No. 1,005,398; Oct. 10; Sp. p. 1800; Gaz. vol. 171; p. 321.
Conveyer, Refuse-. H. Simon. No. 1,001,224; Aug. 22; Sp. p. 4357; Gaz. vol. 169; p. 793.
Conveyer-support. H. W. Sanner. No. 987,325; Mar. 21; Sp. p. 3316; Gaz. vol. 164; p. 595.
Conveyer-table. L. C. Steele. No. 997,868; July 11; Sp. p. 2713; Gaz. vol. 168; p. 465.
Conveyer, Three-track spiral gravity-. G. H. C. Williams. No. 1,005,391; Oct. 10; Sp. p. 1784; Gaz. vol. 171; p. 318.
Conveyer, Traveling. R. M. Clark. No. 983,205; Jan. 31; Sp. p. 6605; Gaz. vol. 162; p. 1150.
Conveyer-trough. L. S. Whiting, W. M. Koppes, and W. H. Gorham. No. 985,872; Mar. 7; Sp. p. 233; Gaz. vol. 164; p. 38.
Conveyer, Upright. H. L. Branstetter. No. 993,146; May 23; Sp. p. 4973; Gaz. vol. 166; p. 899.
Conveyers, Feeding means for belt. W. Reinecke. No. 983,313; Feb. 7; Sp. p. 119; Gaz. vol. 163; p. 21.
Conveyers, Feeding means for belt. W. Reinecke. No. 983,568; Feb. 7; Sp. p. 689; Gaz. vol. 163; p. 107.
Conveyers, Gravity-roller for gravity-. M. C. Schwab. No. 992,910; May 23; Sp. p. 4464; Gaz. vol. 166; p. 818.
Conveyers, Shelf for spiral gravity-. M. C. Schwab. No. 1,011,253; Dec. 12; Sp. p. 1926; Gaz. vol. 173; p. 332.
Conveyers, Sweep-blade for. J. H. Michener, Jr. No. 984,693; Feb. 21; Sp. p. 3134; Gaz. vol. 163; p. 555.
Conveyers, Switch for gravity-. M. C. Schwab. No. 996,944; July 4; Sp. p. 719; Gaz. vol. 168; p. 118.
Conveying and loading apparatus, Crop. W. Kassebeer. No. 1,012,650; Dec. 26; Sp. p. 4992; Gaz. vol. 173; p. 896.
Conveying apparatus. A. Temples. No. 989,663; Apr. 18; Sp. p. 2942; Gaz. vol. 165; p. 519.
Conveying apparatus. F. F. Waechter. No. 1,010,989; Dec. 5; Sp. p. 1296; Gaz. vol. 173; p. 206.
Conveying apparatus, Pneumatic. P. Van Berendonck. No. 1,005,098; Oct. 3; Sp. p. 1122; Gaz. vol. 171; p. 190.
Conveying-channel. H. Marcus. No. 988,644; Apr. 4; Sp. p. 763; Gaz. vol. 165; p. 122.
Cooker. W. G. Gagné. No. 985,892; Mar. 7; Sp. p. 291; Gaz. vol. 164; p. 47.
Cooker. R. J. Walker and N. C. Sprague. No. 990,689; Apr. 25; Sp. p. 5231; Gaz. vol. 165; p. 903.
Cooker. J. C. Bartlett. No. 993,013; May 23; Sp. p. 4687; Gaz. vol. 166; p. 854.
Cooker. E. P. Sedgwick. No. 993,113; May 23; Sp. p. 4914; Gaz. vol. 166; p. 889.
Cooker. H. M. Sheer. No. 1,005,660; Oct. 10; Sp. p. 2408; Gaz. vol. 171; p. 414.
Cooker. W. Bird. No. 1,006,903; Oct. 24; Sp. p. 5187; Gaz. vol. 171; p. 912.
Cooker and toaster, Electric. R. Wiles. No. 990,617; Apr. 25; Sp. p. 5049; Gaz. vol. 165; p. 879.
Cooker, Continuous-process. J. C. Winters. No. 1,006,162; Oct. 17; Sp. p. 3502; Gaz. vol. 171; p. 621.
Cooker, Electric. J. D. Lamont. No. 993,178; May 23; Sp. p. 5033; Gaz. vol. 166; p. 909.
Cooker, Electric. W. Nichols. No. 997,467; July 11; Sp. p. 1796; Gaz. vol. 168; p. 326.
Cooker, Electric. L. Yancey and J. W. Luppold. No. 999,618; Aug. 1; Sp. p. 830; Gaz. vol. 169; p. 145.
Cooker, Electrically-heated. C. E. Terwilliger. No. 990,927; May 2; Sp. p. 214; Gaz. vol. 166; p. 37.
Cooker, Electrically-heated. L. G. Copeman. No. 1,005,811; Oct. 17; Sp. p. 2713; Gaz. vol. 171; p. 496.
Cooker, Fireless. T. Pierson. No. 983,565; Feb. 7; Sp. p. 683; Gaz. vol. 163; p. 106.
Cooker, Fireless. A. T. Hill. No. 1,005,211; Oct. 10; Sp. p. 1370; Gaz. vol. 171; p. 252.
Cooker, Fireless. C. P. Holland. No. 1,008,468; Nov. 14; Sp. p. 1920; Gaz. vol. 172; p. 328.
Cooker, Fireless. C. A. Lauzon. No. 1,012,869; Dec. 26; Sp. p. 5501; Gaz. vol. 173; p. 973.
Cooker, Food-. J. Rau. No. 1,011,080; Dec. 5; Sp. p. 1489; Gaz. vol. 173; p. 236.
Cooker for oil-bearing meal, &c. F. Wolfenden. No. 1,012,312; Dec. 19; Sp. p. 4299; Gaz. vol. 173; p. 737.
Cooker, Meat-. A. Reubold. No. 1,006,792; Oct. 24; Sp. p. 4924; Gaz. vol. 171; p. 872.
Cooker, press, and percolator, Combined. J. B. Livingston. No. 999,508; Aug. 1; Sp. p. 621; Gaz. vol. 169; p. 107.
Cooker, Steam-. S. S. Eccleston. No. 992,119; May 9; Sp. p. 2714; Gaz. vol. 166; p. 480.
Cooker, Steam-. G. J. Hutchings. No. 998,096; July 18; Sp. p. 3260; Gaz. vol. 168; p. 588.
Cooker, Steam-. M. E. Johnson. No. 1,003,112; Sept. 12; Sp. p. 2052; Gaz. vol. 170; p. 353.
Cooker, Steam-. C. W. Sterick. No. 1,004,099; Sept. 26; Sp. p. 4248; Gaz. vol. 170; p. 757.
Cooker, Steam-. R. E. White. No. 1,007,999; Nov. 7; Sp. p. 771; Gaz. vol. 172; p. 122.
Cooker, Steam-. A. W. Meyer. No. 1,010,940; Dec. 5; Sp. p. 1203; Gaz. vol. 173; p. 189.
Cooker, Thermo-electric. R. S. Kirkpatrick. No. 982,831; Jan. 31; Sp. p. 5826; Gaz. vol. 162; p. 1025.
Cooking. A. C. Dunham. No. 1,001,627; Aug. 29; Sp. p. 5176; Gaz. vol. 169; p. 959.
Cooking apparatus. W. S. Irey. No. 1,007,700; Nov. 7; Sp. p. 108; Gaz. vol. 172; p. 17.
Cooking apparatus, Ice-cream-cone-. J. P. Groset. No. 1,010,619; Dec. 5; Sp. p. 489; Gaz. vol. 173; p. 76.
Cooking apparatus, Portable and transportable. J. and L. Schnyder. No. 980,842; Jan. 3; Sp. p. 1416; Gaz. vol. 162; p. 227.
Cooking appliance. A. L. Sykes. No. 1,005,357; Oct. 10; Sp. p. 1722; Gaz. vol. 171; p. 307.
Cooking, drying, and conveying machine, Combined. E. L. Thurber and M. Judge. No. 989,447; Apr. 11; Sp. p. 2441; Gaz. vol. 165; p. 413.
Cooking machine, Pastry-. S. F. Pierce. No. 985,204; Feb. 28; Sp. p. 4218; Gaz. vol. 163; p. 765.
Cooking maize or other cereals. F. Pampe. No. 999,852; Aug. 8; Sp. p. 1305; Gaz. vol. 169; p. 253.
Cooking oil-bearing material, Apparatus for and method of. A. W. French. No. 1,000,675; Aug. 15; Sp. p. 3154; Gaz. vol. 169; p. 571.
Cooking utensil. W. J. Graham. No. 980,246; Jan. 3; Sp. p. 132; Gaz. vol. 162; p. 26.
Cooking utensil. L. R. Felger. No. 982,044; Jan. 17; Sp. p. 4189; Gaz. vol. 162; p. 698.
Cooking utensil. L. Nelson. No. 986,848; Mar. 14; Sp. p. 2317; Gaz. vol. 164; p. 401.
Cooking utensil. A. T. MacKenzie. No. 987,386; Mar. 21; Sp. p. 3439; Gaz. vol. 164; p. 616.
Cooking utensil. J. Thorne. No. 987,510; Mar. 21; Sp. p. 3688; Gaz. vol. 164; p. 658.
Cooking utensil. G. J. Bernau. No. 987,691; Mar. 28; Sp. p. 4082; Gaz. vol. 164; p. 749.
Cooking utensil. F. P. Brust. No. 1,003,428; Sept. 19; Sp. p. 2705; Gaz. vol. 170; p. 497.
Cooking utensil. L. Neal. No. 1,009,334; Nov. 21; Sp. p. 3816; Gaz. vol. 172; p. 665.
Cooking-utensil attachment. L. A. Smith. No. 987,923; Mar. 28; Sp. p. 4603; Gaz. vol. 164; p. 829.
Cooking-utensil cover-handle. P. Kempter. No. 980,872; Jan. 3; Sp. p. 1487; Gaz. vol. 162; p. 238.
Cooking utensil, Domestic. O. E. Allen. No. 1,005,919; Oct. 17; Sp. p. 2959; Gaz. vol. 171; p. 536.
Cooking-utensil protective device. J. W. Carter. No. 1,004,146; Sept. 26; Sp. p. 4363; Gaz. vol. 170; p. 773.
Cooking-utensil support and food-support, Combined. G. M. F. Norton. No. 989,399; Apr. 11; Sp. p. 2348; Gaz. vol. 165; p. 397.
Cooking vessel. B. Skouge. No. 1,001,778; Aug. 29; Sp. p. 5507; Gaz. vol. 169; p. 1011.
Cooking vessel. E. D. Schmitt. No. 1,003,952; Sept. 19; Sp. p. 3867; Gaz. vol. 170; p. 678.
Cooking vessel. J. R. Donnelly. No. 1,006,469; Oct. 24; Sp. p. 4203; Gaz. vol. 171; p. 757.
Cooking-vessel attachment. L. A. Kallstrom. No. 999,567; Aug. 1; Sp. p. 743; Gaz. vol. 169; p. 128.
Cooking vessel, Electrical. F. Bölling. No. 995,434; June 20; Sp. p. 2924; Gaz. vol. 167; p. 522.
Cooking vessel, High-pressure steam. R. L. Page. No. 1,010,792; Dec. 5; Sp. p. 880; Gaz. vol. 173; p. 138.
Cooking-vessel support. E. P. Brewer. No. 990,102; Apr. 18; Sp. p. 3867; Gaz. vol. 165; p. 668.
Cooking vessels, Heat distributer and accumulator for. G. Lake. No. 1,008,603; Nov. 14; Sp. p. 2213; Gaz. vol. 172; p. 377.
Cooler: *See* Beer-cooler; Bottle-cooler; Candy-coating cooler; Cream-cooler; Engine-cooler; Evaporative cooler; Evaporator-cooler; Liquid-cooler; Milk-cooler; Ore-cooler; Soda-fountain cooler; Water-cooler; Wine-cooler.
Cooler. D. M. Livingston. No. 985,687; Feb. 28; Sp. p. 5280; Gaz. vol. 163; p. 930.
Cooler. C. L. Hendrix. No. 987,461; Mar. 21; Sp. p. 3604; Gaz. vol. 164; p. 642.
Cooler. W. W. Langham. No. 988,882; Apr. 4; Sp. p. 1245; Gaz. vol. 165; p. 199.
Cooler. P. Good. No. 991,715; May 9; Sp. p. 1927; Gaz. vol. 166; p. 346.
Cooler or radiator sections, Machine for making. D. M. Livingston. No. 985,686; Feb. 28; Sp. p. 5264; Gaz. vol. 163; p. 925.
Cooling apparatus. T. H. Harris and M. D. Rucker. No. 984,911; Feb. 21; Sp. p. 3573; Gaz. vol. 163; p. 630.
Cooling apparatus. M. L. Steen. No. 988,397; Apr. 4; Sp. p. 234; Gaz. vol. 165; p. 38.
Cooling-can. H. C. Steffy. No. 996,033; June 20; Sp. p. 4214; Gaz. vol. 167; p. 732.
Cooling device. T. Cooper. No. 994,127; June 6; Sp. p. 51; Gaz. vol. 167; p. 11.
Cooling device. W. G. Whittlesey. No. 997,430; July 11; Sp. p. 1733; Gaz. vol. 168; p. 314.
Cooling device. M. W. Burkhalter. No. 1,006,463; Oct. 24; Sp. p. 4193; Gaz. vol. 171; p. 755.
Cooling device for treating fever cases. J. T. Phelan. No. 1,004,192; Sept. 26; Sp. p. 4460; Gaz. vol. 170; p. 789.
Cooling-rack. W. F. Rust. No. 1,006,982; Oct. 24; Sp. p. 5343; Gaz. vol. 171; p. 937.
Cooling-tower. O. H. Mueller. No. 989,631; Apr. 18; Sp. p. 2878; Gaz. vol. 165; p. 508.

Alphabetical list of inventions—Continued.

Coop. M. J. Stokes. No. 984,977; Feb. 21; Sp. p. 3691; Gaz. vol. 163; p. 651.
Coop, Brood-. J. E. Fulton. No. 986,703; Mar. 14; Sp. p. 2001; Gaz. vol. 164; p. 352.
Coop, Brooder-. P. H. Brainard. No. 982,703; Jan. 24; Sp. p. 5536; Gaz. vol. 162; p. 953.
Coop, Chicken-. T. J. Elston. No. 985,333; Feb. 28; Sp. p. 4493; Gaz. vol. 163; p. 809.
Coop, Chicken-. F. M. Richardson. No. 990,291; Apr. 25; Sp. p. 4293; Gaz. vol. 165; p. 765.
Coop, Chicken-. G. E. Maurer. No. 1,007,956; Nov. 7; Sp. p. 696; Gaz. vol. 172; p. 108.
Coop, Chicken brood-. E. Fox. No. 1,010,358; Nov. 28; Sp. p. 5928; Gaz. vol. 172; p. 1055.
Coop, Collapsible. F. D. Bergman. No. 987,281; Mar. 21; Sp. p. 3221; Gaz. vol. 164; p. 581.
Coop, Collapsible poultry-. D. F. Williams and W. O. Herndon. No. 1,008,095; Nov. 7; Sp. p. 962; Gaz. vol. 172; p. 155.
Coop, Folding. M. Walter. No. 1,006,991; Oct. 24; Sp. p. 5358; Gaz. vol. 171; p. 940.
Coop, Folding chicken-. F. W. Newcomb. No. 989,029; Apr. 11; Sp. p. 1550; Gaz. vol. 165; p. 271.
Cop-carrier. J. B. Hyde. No. 993,377; May 30; Sp. p. 5465; Gaz. vol. 166; p. 1006.
Cop-tube. F. H. Danieli. (Reissue.) No. 13,223; Mar. 28; Sp. p. 5388; Gaz. vol. 164; p. 952.
Cop-tube. J. F. Dustin. No. 1,010,354; Nov. 28; Sp. p. 5923; Gaz. vol. 172; p. 1054.
Coping-block. E. M. Campfield. No. 1,003,871; Sept. 19; Sp. p. 3652; Gaz. vol. 170; p. 650.
Coping-machine. J. G. and H. L. Benster. No. 1,003,866; Sept. 19; Sp. p. 3646; Gaz. vol. 170; p. 648.
Copper and its alloys, Improving the conductivity and tensile strength of. R. Franke. No. 990,040; Apr. 18; Sp. p. 3746; Gaz. vol. 165; p. 648.
Copper-bearing substances, Treating. C. S. Bradley. No. 1,011,562; Dec. 12; Sp. p. 2624; Gaz. vol. 173; p. 443.
Copper-extracting apparatus. V. A. Brewer. No. 994,301; June 6; Sp. p. 407; Gaz. vol. 167; p. 69.
Copper from porphyry ores and the like, Recovery of. G. Schneider. No. 986,508; Mar. 14; Sp. p. 1599; Gaz. vol. 164; p. 284.
Copper, Hardening. R. A. Hamilton and J. Henry. No. 984,137; Feb. 14; Sp. p. 1914; Gaz. vol. 163; p. 329.
Copy-holder. B. F. Cole. No. 980,206; Jan. 3; Sp. p. 59; Gaz. vol. 162; p. 12.
Copy-holder. W. S. Ireland. No. 980,278; Jan. 3; Sp. p. 188; Gaz. vol. 162; p. 36.
Copy-holder. B. F. Peetz, H. S. McDanel, and N. W. Thompson. No. 986,211; Mar. 7; Sp. p. 943; Gaz. vol. 164; p. 153.
Copy-holder. G. A. Marsh. No. 994,857; June 13; Sp. p. 1677; Gaz. vol. 167; p. 301.
Copy-holder. B. F. Peetz, H. S. McDanel, and N. W. Thompson. No. 999,181; July 25; Sp. p. 5618; Gaz. vol. 168; p. 999.
Copy-holder. F. D. Jones. No. 1,000,605; Aug. 15; Sp. p. 3000; Gaz. vol. 169; p. 548.
Copy-holder. G. C. McCune. No. 1,004,056; Sept. 26; Sp. p. 4124; Gaz. vol. 170; p. 741.
Copy-holder. F. Planert. No. 1,006,270; Oct. 17; Sp. p. 3755; Gaz. vol. 171; p. 660.
Copy-holder. G. A. Marsh. No. 1,008,349; Nov. 14; Sp. p. 1565; Gaz. vol. 172; p. 285.
Copy-holder. H. Utsch. No. 1,009,455; Nov. 21; Sp. p. 4106; Gaz. vol. 172; p. 708.
Copying-machine. E. Lichtenstein. No. 996,418; June 27; Sp. p. 5134; Gaz. vol. 167; p. 899.
Copying-machine, Multi-. A. C. Staley. No. 1,001,226; Aug. 22; Sp. p. 4361; Gaz. vol. 169; p. 794.
Copying-machine, Multiple. W. Stableford. No. 981,132; Jan. 10; Sp. p. 2187; Gaz. vol. 162; p. 360.
Copying-machine, Multiple. W. Stableford. No. 982,543; Jan. 24; Sp. p. 5221; Gaz. vol. 162; p. 901.
Copying-press. H. T. Hallowell. No. 980,248; Jan. 3; Sp. p. 133; Gaz. vol. 162; p. 26.
Cord-adjuster. W. C. Spicer. No. 1,000,045; Aug. 8; Sp. p. 1709; Gaz. vol. 169; p. 319.
Cord from quill substance or strips, Mechanism for the manufacture of. W. Webster. No. 982,322; Jan. 24; Sp. p. 4754; Gaz. vol. 162; p. 822.
Cord-holder. W. W. Carder. No. 991,698; May 9; Sp. p. 1889; Gaz. vol. 166; p. 341.
Cord, &c., Machine for manufacturing or treating lengths of. T. Sloper. No. 986,600; Mar. 14; Sp. p. 1792; Gaz. vol. 164; p. 317.
Cord, Manufacture of articles built up from lengths of. T. Sloper. No. 1,009,192; Nov. 21; Sp. p. 3468; Gaz. vol. 172; p. 612.
Core and disk cutting tool, Circular. T. L. Crossley. No. 983,810; Feb. 7; Sp. p. 1174; Gaz. vol. 163; p. 189.
Core and mold making machine. A. N. Kelley. No. 1,003,755; Sept. 19; Sp. p. 3423; Gaz. vol. 170; p. 610.
Core-barrel. P. M. Reilly. No. 1,001,553; Aug. 22; Sp. p. 5017; Gaz. vol. 169; p. 904.
Core-barrel, Contractible. C. F. Murray. No. 1,005,062; Oct. 3; Sp. p. 1063; Gaz. vol. 171; p. 178.
Core-barrel, Contractible and expansible. C. F. Murray. No. 990,287; Apr. 25; Sp. p. 4284; Gaz. vol. 165; p. 764.
Core-barrel, Double-tube. M. Ahearn. No. 982,456; Jan. 24; Sp. p. 5056; Gaz. vol. 162; p. 872.
Core-barrel, Expansible. C. F. Murray. No. 996,661; July 4; Sp. p. 133; Gaz. vol. 168; p. 23.
Core-boxes, Universal jolt-ramming machine for. T. F. Sisson. No. 985,464; Feb. 28; Sp. p. 4805; Gaz. vol. 163; p. 853.
Core, Collapsible. J. B. Walker. No. 997,027; July 4; Sp. p. 931; Gaz. vol. 168; p. 148.
Core, Collapsible. C. Bennett and A. and J. E. Sharp. No. 1,002,119; Aug. 29; Sp. p. 6220; Gaz. vol. 169; p. 1124.
Core, Collapsible. T. W. Baker. No. 1,007,413; Oct. 31; Sp. p. 6286; Gaz. vol. 171; p. 1143.
Core, Collapsible. A. Adamson. No. 1,007,626; Oct. 31; Sp. p. 6759; Gaz. vol. 171; p. 1216.
Core-drill. C. A. Terry. No. 1,006,418; Oct. 17; Sp. p. 4075; Gaz. vol. 171; p. 710.
Core for use in the manufacture of coils, Collapsible. J. F. Card. No. 1,002,367; Sept. 5; Sp. p. 441; Gaz. vol. 170; p. 62.
Core-forming machine, Sand-. L. M. Hennessy. No. 986,980; Mar. 14; Sp. p. 2569; Gaz. vol. 164; p. 445.
Core-lifting device. G. Atterbury. No. 1,007,663; Nov. 7; Sp. p. 7; Gaz. vol. 172; p. 4.
Core-making apparatus. J. Gow. No. 981,257; Jan. 10; Sp. p. 2493; Gaz. vol. 162; p. 405.
Core-making device. S. H. Lunney. No. 988,579; Apr. 4; Sp. p. 626; Gaz. vol. 165; p. 101.
Core-making machine. F. Herbert. No. 997,293; July 11; Sp. p. 1472; Gaz. vol. 168; p. 269.
Core-stripper. F. M. Kennedy and E. K. Gaylord. No. 986,831; Mar. 14; Sp. p. 2283; Gaz. vol. 164; p. 395.
Core-vents, Means for making. C. Hanson. No. 982,670; Jan. 24; Sp. p. 5469; Gaz. vol. 162; p. 943.
Core, Wooden. D. C. Meehan. No. 1,006,581; Oct. 24; Sp. p. 4483; Gaz. vol. 171; p. 800.
Cores, Anchor for molding. H. C. Maul. No. 985,823; Mar. 7; Sp. p. 108; Gaz. vol. 164; p. 23.
Corer, Cabbage-. O. P. W. Ehrhardt. No. 1,002,242; Sept. 5; Sp. p. 124; Gaz. vol. 170; p. 15.
Corer, parer, and slicer. J. M. Carter. No. 983,603; Feb. 7; Sp. p. 755; Gaz. vol. 163; p. 118.
Cork, Air-pressure. J. S. Leisure and P. J. Robinson. No. 1,009,980; Nov. 28; Sp. p. 5154; Gaz. vol. 172; p. 928.
Cork composition and making same. P. F. Lenhart. No. 1,008,972; Nov. 14; Sp. p. 2996; Gaz. vol. 172; p. 500.
Cork-cutting machine. A. Gold. No. 1,005,195; Oct. 10; Sp. p. 1334; Gaz. vol. 171; p. 247.
Cork-cutting machine. H. C. Biertuempfel. No. 1,010,579; Dec. 5; Sp. p. 401; Gaz. vol. 173; p. 63.
Cork-extractor. C. E. Rollins. No. 980,839; Jan. 3; Sp. p. 1412; Gaz. vol. 162; p. 226.
Cork-extractor. F. J. Sersen. No. 983,778; Feb. 7; Sp. p. 1113; Gaz. vol. 163; p. 178.
Cork-extractor. J. F. Curtis. No. 990,962; May 2; Sp. p. 289; Gaz. vol. 166; p. 50.
Cork, Heating and molding subdivided. M. Grünzweig. No. 997,056; July 4; Sp. p. 986; Gaz. vol. 168; p. 158.
Cork, Poison-bottle. R. A. Leet. No. 985,354; Feb. 28; Sp. p. 4542; Gaz. vol. 163; p. 815.
Cork-puller. M. L. M. Peck. No. 986,855; Mar. 14; Sp. p. 2328; Gaz. vol. 164; p. 404.
Cork-puller. B. F. Deuel. No. 1,002,374; Sept. 5; Sp. p. 458; Gaz. vol. 170; p. 64.
Cork-shell-cutting machine. A. Bogdánffy. No. 1,012,320; Dec. 19; Sp. p. 4313; Gaz. vol. 173; p. 740.
Cork-stringing machine. A. P. Watt. No. 991,915; May 9; Sp. p. 2315; Gaz. vol. 166; p. 412.
Cork, Treatment of. M. Grünzweig. No. 982,950; Jan. 31; Sp. p. 6100; Gaz. vol. 162; p. 1065.
Corks in bottles, Machine for wiring. H. E. Olsen and E. A. Schmidt. No. 992,240; May 16; Sp. p. 3005; Gaz. vol. 166; p. 554.
Corking machine, Bottle-. G. Norton. No. 980,887; Jan. 3; Sp. p. 1541; Gaz. vol. 162; p. 244.
Corking machine, Bottle-. O. M. Moore. No. 988,205; Mar. 28; Sp. p. 5198; Gaz. vol. 164; p. 922.
Corking machine, Bottle-. J. E. Rovetti. No. 993,199; May 23; Sp. p. 5078; Gaz. vol. 166; p. 915.
Corkscrew. J. T. Bethel. No. 1,009,040; Nov. 21; Sp. p. 3156; Gaz. vol. 172; p. 559.
Corkscrew. D. M. Syme. No. 1,012,931; Dec. 26; Sp. p. 5659; Gaz. vol. 173; p. 994.
Corkscrew, Pocket-. C. W. Windhövel and C. Weyer. No. 989,680; Apr. 18; Sp. p. 2979; Gaz. vol. 165; p. 525.
Corn-binder loader. F. A. R., H. C., and O. L. Fiebach. No. 985,991; Mar. 7; Sp. p. 517; Gaz. vol. 164; p. 82.
Corn-crib. W. F. Kurtz. No. 996,262; June 27; Sp. p. 4761; Gaz. vol. 167; p. 844.
Corn-cutter. H. Büchner. No. 983,202; Jan. 31; Sp. p. 6599; Gaz. vol. 162; p. 1148.
Corn drier and hanger, Seed-. J. A. Trimble. No. 985,230; Feb. 28; Sp. p. 4277; Gaz. vol. 163; p. 774.
Corn-gatherer. C. F. Weems. No. 1,011,537; Dec. 12; Sp. p. 2562; Gaz. vol. 173; p. 434.
Corn gathering and husking machine. C. E. Balkema. No. 996,604; July 4; Sp. p. 6; Gaz. vol. 168; p. 4.

Corn gathering and loading machine. J. Boda. No. 1,008,942; Nov. 14; Sp. p. 2932; Gaz. vol. 172; p. 489.
Corn-grader. C. Hunnicutt. No. 989,976; Apr. 18; Sp. p. 3617; Gaz. vol. 165; p. 627.
Corn-grader, Rotary. O. E. Craig. No. 990,341; Apr. 25; Sp. p. 4420; Gaz. vol. 165; p 782.
Corn grader, Seed-. C. Hunnicutt. No. 983,495; Feb. 7; Sp. p. 507; Gaz. vol. 163; p. 81.
Corn-hanger. R. W. Allsup. No. 984,992; Feb. 21; Sp. p. 3715; Gaz. vol. 163; p. 657.
Corn hanger, Ear-. G. M. Hurff. No. 981,269; Jan. 10; Sp. p. 2518; Gaz. vol. 162; p. 410.
Corn hanger, Ear-. G. M. Hurff. No. 981,270; Jan. 10; Sp. p. 2519; Gaz. vol. 162; p. 410.
Corn hanger, Seed-. C. F. Phipps. No. 982,864; Jan. 31; Sp. p. 5910; Gaz. vol. 162; p. 1037.
Corn hanger, Seed-. J. H. Harth. No. 988,468; Apr. 4; Sp. p. 383; Gaz. vol. 165; p. 61.
Corn-husker. T. I. Ludwig. No. 983,454; Feb. 7; Sp. p. 426; Gaz. vol. 163; p. 68.
Corn-husker. W. Smolley. No. 998,928; July 25; Sp. p. 5097; Gaz. vol. 168; p. 914.
Corn-husker. G. A. Benz. No. 1,007,638; Oct. 31; Sp. p. 6785; Gaz. vol. 171; p. 1220.
Corn-husker. R. F. Clark. No. 1,010,860; Dec. 5; Sp. p. 1031; Gaz. vol. 173; p. 161.
Corn husking and shredding machines, Shock-handling attachment for. J. B. Schuman. No. 990,785; Apr. 25; Sp. p. 5436; Gaz. vol. 165; p. 936.
Corn-husking device. E. A. Berggren. No. 980,746; Jan. 3; Sp. p. 1214; Gaz. vol. 162; p. 195.
Corn-husking implement. G. E. Mariner. No. 994,856; June 13; Sp. p. 1676; Gaz. vol. 167; p. 300.
Corn-husking machine. J. W. Smith. No. 999,128; July 25; Sp. p. 5523; Gaz. vol. 168; p. 982.
Corn-knife. J. C. Pletscher. No. 994,534; June 6; Sp. p. 897; Gaz. vol. 167; p. 149.
Corn, Machine for removing the butt-ends of ears of. S. E. and W. W. Morral. (Reissue.) No. 13,206; Feb. 14; Sp. p. 2751; Gaz. vol. 163; p. 460.
Corn, Machine for removing the butt-ends of ears of. S. E. and W. W. Morral. (Reissue.) No. 13,207; Feb. 14; Sp. p. 2757; Gaz. vol. 163; p. 461.
Corn-popper. S. L. Long. No. 994,014; May 30; Sp. p. 6819; Gaz. vol. 166; p. 1224.
Corn-popper. J. W. Ealey. No. 998,681; July 25; Sp. p. 4530; Gaz. vol. 168; p. 826.
Corn-popping apparatus. C. H. Moores. No. 1,009,924; Nov. 28; Sp. p. 5033; Gaz. vol. 172; p. 909.
Corn-sheller. J. M. Sailer. No. 985,287; Feb. 28; Sp. p. 4408; Gaz. vol. 163; p. 793.
Corn-sheller. P. C. Southwick. No. 998,417; July 18; Sp. p. 3969; Gaz. vol. 168; p. 703.
Corn-sheller. W. Watts. No. 999,072; July 25; Sp. p. 5424; Gaz. vol. 168; p. 965.
Corn-sheller feeding mechanism. W. J. and L. F. Dauner. (Reissue.) No. 13,209; Feb. 21; Sp. p. 3967; Gaz. vol. 163; p. 701.
Corn-shellers, Feeder for. J. and E. S. Legris. No. 1,008,278; Nov. 7; Sp. p. 1362; Gaz. vol. 172; p. 222.
Corn-shelling machine. J. F. Ernst. No. 1,009,394; Nov. 21; Sp. p. 3973; Gaz. vol. 172; p. 686.
Corn-shock binder. F. Owen. No. 1,006,781; Oct. 24; Sp. p. 4881; Gaz. vol. 171; p. 867.
Corn-shocker. F. M. Jones. No. 1,000,815; Aug. 15; Sp. p. 3448; Gaz. vol. 169; p. 621.
Corn-shredder feeder. F. Hagen. No. 989,704; Apr. 18; Sp. p. 3025; Gaz. vol. 165; p. 533.
Corn slitter and scraper. R. M. Pancoast. No. 983,515; Feb. 7; Sp. p. 553; Gaz. vol. 163; p. 88.
Corn snapping and husking machine. W. C. and B. S. Legg and B. C. Dutton. No. 1,002,530; Sept. 5; Sp. p. 778; Gaz. vol. 170; p. 114.
Corn, Storage system for seed-. M. L. Northrup. No. 991,351; May 2; Sp. p. 1125; Gaz. vol. 166; p. 188.
Corn-testing apparatus, Seed-. M. T. Bascom. No. 1,007,050; Oct. 31; Sp. p. 5477; Gaz. vol. 171; p. 1014.
Corn-trimmer, Safety. W. Ekenborg, Jr. No. 1,002,377; Sept. 5; Sp. p. 462; Gaz. vol. 170; p. 65.
Corner-bar, Metal. J. Cook. No. 1,006,359; Oct. 17; Sp. p. 3964; Gaz. vol. 171; p. 690.
Corner-bead holder. E. Middleton and C. Porter. No. 1,009,983; Nov. 28; Sp. p. 5158; Gaz. vol. 172; p. 928.
Cornet. F. Holton. No. 1,005,972; Oct. 17; Sp. p. 3086; Gaz. vol. 171; p. 554.
Cornice and gutter, Combined. H. J. Wagner. No. 1,002,611; Sept. 5; Sp. p. 962; Gaz. vol. 170; p. 143.
Cornice-gutter. C. T. Durkee. No. 1,000,080; Aug. 8; Sp. p. 1837; Gaz. vol. 169; p. 332.
Corrugated bar. A. L. Johnson. No. 982,682; Jan. 24; Sp. p. 5488; Gaz. vol. 162; p. 947.
Corrugating-press. H. Paul. No. 1,007,968; Nov. 7; Sp. p. 717; Gaz. vol. 172; p. 112.
Corrugator. R. N. Lyons. No. 985,044; Feb. 21; Sp. p. 3830; Gaz. vol. 163; p. 676.
Corset. D. S. Berger. No. 980,745; Jan. 3; Sp. p. 1213; Gaz. vol. 162; p. 194.
Corset. J. E. Strouse. No. 986,779; Mar. 14; Sp. p. 2162; Gaz. vol. 164; p. 377.
Corset. F. T. Welton. No. 987,782; Mar. 28; Sp. p. 4273; Gaz. vol. 164; p. 779.
Corset. S. A. Jenyns. No. 991,315; May 2; Sp. p. 1054; Gaz. vol. 166; p. 176.
Corset. R. Kindhauser, *née* Gebhart. No. 993,075; May 23; Sp. p. 4821; Gaz. vol. 166; p. 875.
Corset. J. E. Doolittle. No. 993,765; May 30; Sp. p. 6322; Gaz. vol. 166; p. 1140.
Corset. J. H. Odenbrett. No. 996,666; July 4; Sp. p. 141; Gaz. vol. 168; p. 25.
Corset. G. H. Colley. No. 997,274; July 11; Sp. p. 1426; Gaz. vol. 168; p. 262.
Corset. F. T. Welton. No. 998,062; July 18; Sp. p. 3172; Gaz. vol. 168; p. 575.
Corset. C. W. Linscott. No. 1,004,581; Oct. 3; Sp. p. 67; Gaz. vol. 171; p. 13.
Corset. H. M. McCormick. No. 1,006,863; Oct. 24; Sp. p. 5090; Gaz. vol. 171; p. 898.
Corset. G. Pfeil. No. 1,007,602; Oct. 31; Sp. p. 6710; Gaz. vol. 171; p. 1208.
Corset. R. Merkin. No. 1,012,406; Dec. 19; Sp. p. 4482; Gaz. vol. 173; p. 768.
Corset and bust-form therefor. C. Mayer and S. Yaffe. No. 990,279; Apr. 25; Sp. p. 4267; Gaz. vol. 165; p. 761.
Corset and swimming-belt chart. M. M. Franklin. No. 1,005,951; Oct. 17; Sp. p. 3040; Gaz. vol. 171; p. 548.
Corset, Bathing-. D. McCullough. No. 999,388; Aug. 1; Sp. p. 391; Gaz. vol. 169; p. 69.
Corset-clasp. M. B. Gardner. No. 984,899; Feb. 21; Sp. p. 3545; Gaz. vol. 163; p. 626.
Corset-clasp. M. B. Gardner. No. 1,003,100; Sept. 12; Sp. p. 2029; Gaz. vol. 170; p. 349.
Corset-fastening device. J. Danenmark. No. 992,549; May 16; Sp. p. 3706; Gaz. vol. 166; p. 663.
Corset-fitting device. C. C. Vosburgh. No. 1,005,488; Oct. 10; Sp. p. 1998; Gaz. vol. 171; p. 352.
Corset-shield. M. V. Bugg. No. 981,376; Jan. 10; Sp. p. 2745; Gaz. vol. 162; p. 446.
Corset-stays, Machine for making wire. M. M. Beeman. No. 1,009,823; Nov. 28; Sp. p. 4851; Gaz. vol. 172; p. 877.
Cosmetic-booklet. S. J. Hudson. No. 990,270; Apr. 25; Sp. p. 4248; Gaz. vol. 165; p. 758.
Cot, Adjustable invalid-. R. R. Miller. No. 982,289; Jan. 24; Sp. p. 4694; Gaz. vol. 162; p. 811.
Cot and stretcher, Resilient ambulance. J. F. Smith. No. 1,002,005; Aug. 29; Sp. p. 6014; Gaz. vol. 169; p. 1088.
Cot, Folding. I. Moraff. No. 981,873; Jan. 17; Sp. p. 3778; Gaz. vol. 162; p. 639.
Cot, Folding. I. Moraff. No. 981,874; Jan. 17; Sp. p. 3780; Gaz. vol. 162; p. 639.
Cot or couch. J. L. Tandy. No. 1,006,147; Oct. 17; Sp. p. 3470; Gaz. vol. 171; p. 616.
Cot, Swinging. G. A. Newrath. No. 1,003,780; Sept. 19; Sp. p. 3480; Gaz. vol. 170; p. 619.
Cots, Head-rest for. W. S. Ransom. No. 981,688; Jan. 17; Sp. p. 3391; Gaz. vol. 162; p. 573.
Cottage, Knockdown. H. S. McMillin. No. 998,915; July 25; Sp. p. 5072; Gaz. vol. 168; p. 910.
Cottage, Portable. H. S. McMillin. No. 1,008,483; Nov. 14; Sp. p. 1947; Gaz. vol. 172; p. 333.
Cotter-pin. J. A. Germonprez. No. 996,756; July 4; Sp. p. 319; Gaz. vol. 168; p. 54.
Cotter-pin tool. D. O. C. Kersten. No. 987,238; Mar. 21; Sp. p. 3125; Gaz. vol. 164; p. 566.
Cotter-pins, Tool for operating upon. E. M. Worden. No. 998,939; July 25; Sp. p. 5145; Gaz. vol. 168; p. 919.
Cotton-bat former and compressor. J. L. Raley. No. 981,108; Jan. 10; Sp. p. 2129; Gaz. vol. 162; p. 351.
Cotton-chopper. P. Carlson. No. 986,137; Mar. 7; Sp. p. 794; Gaz. vol. 164; p. 129.
Cotton-chopper. G. M. Hart. No. 986,285; Mar. 7; Sp. p. 1098; Gaz. vol. 164; p. 177.
Cotton-chopper. R. B. Miner. No. 986,933; Mar. 14; Sp. p. 2487; Gaz. vol. 164; p. 430.
Cotton-chopper. J. J. Crow. No. 987,435; Mar. 21; Sp. p. 3536; Gaz. vol. 164; p. 632.
Cotton-chopper. G. W. Burton. No. 987,855; Mar. 28; Sp. p. 4424; Gaz. vol. 164; p. 805.
Cotton-chopper. W. R. Key. No. 988,353; Apr. 4; Sp. p. 127; Gaz. vol. 165; p. 23.
Cotton-chopper. F. F. Firebaugh. No. 988,450; Apr. 4; Sp. p. 343; Gaz. vol. 165; p. 55.
Cotton-chopper. J. F. Carter. No. 989,115; Apr. 11; Sp. p. 1727; Gaz. vol. 165; p. 301.
Cotton-chopper. R. A. Erwin and W. R. Long. No. 992,412; May 16; Sp. p. 3415; Gaz. vol. 166; p. 615.
Cotton-chopper. J. L. Breeding. No. 993,342; May 30; Sp. p. 5384; Gaz. vol. 166; p. 995.
Cotton-chopper. F. Sieglinger. No. 994,343; June 6; Sp. p. 493; Gaz. vol. 167; p. 85.
Cotton-chopper. G. W. Denson. No. 994,725; June 13; Sp. p. 1366; Gaz. vol. 167; p. 255.
Cotton-chopper. F. O. Swenson and O. E. Hallen. No. 995,735; June 20; Sp. p. 3582; Gaz. vol. 167; p. 629.
Cotton-chopper. J. A. Parker. No. 995,895; June 20; Sp. p. 3944; Gaz. vol. 167; p. 683.
Cotton-chopper. R. T. Simmons. No. 997,015; July 4; Sp. p. 906; Gaz. vol. 168; p. 143.
Cotton-chopper. M. Prokschl. No. 997,089; July 4; Sp. p. 1049; Gaz. vol. 168; p. 169.

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Cotton-chopper. J. R. Hester. No. 1,000,599; Aug. 15; Sp. p. 2984; Gaz. vol. 169; p. 546.
Cotton-chopper. W. C. Burton. No. 1,002,494; Sept. 5; Sp. p. 705; Gaz. vol. 170; p. 103.
Cotton-chopper. P. Carlson. No. 1,005,691; Oct. 10; Sp. p. 2470; Gaz. vol. 171; p. 424.
Cotton-chopper. A. E. Ashlimann. No. 1,005,792; Oct. 17; Sp. p. 2669; Gaz. vol. 171; p. 490.
Cotton-chopper. F. Metcalfe. No. 1,010,296; Nov. 28; Sp. p. 5809; Gaz. vol. 172; p. 1035.
Cotton-chopper. J. N. Burton. No. 1,011,738; Dec. 12; Sp. p. 3018; Gaz. vol. 173; p. 503.
Cotton chopper and cultivator. E. M. McKissick. No. 989,991; Apr. 18; Sp. p. 3653; Gaz. vol. 165; p. 633.
Cotton chopper and cultivator. J. L. Erwin. No. 990,480; Apr. 25; Sp. p. 4733; Gaz. vol. 165; p. 832.
Cotton chopper and cultivator. F. B. Kreulhaus. No. 997,623; July 11; Sp. p. 2141; Gaz. vol. 168; p. 379.
Cotton chopper and scraper. W. D. Osbron. No. 995,553; June 20; Sp. p. 3172; Gaz. vol. 167; p. 564.
Cotton chopper and scraper. C. G. Williams. No. 1,004,948; Oct. 3; Sp. p. 862; Gaz. vol. 171; p. 140.
Cotton chopper, cultivator, and weeder, Combined. T. J. King. No. 996,772; July 4; Sp. p. 344; Gaz. vol. 168; p. 59.
Cotton chopper, scraper, and cultivator, Combined. G. C. Lackie. No. 980,803; Jan. 3; Sp. p. 1336; Gaz. vol. 162; p. 214.
Cotton-chopping machine. W. H. Lynn. No. 999,815; Aug. 8; Sp. p. 1230; Gaz. vol. 169; p. 241.
Cotton-cleaner. A. A. Zalondek. No. 988,532; Apr. 4; Sp. p. 515; Gaz. vol. 165; p. 82.
Cotton-cleaner. S. D. Murray. No. 991,227; May 2; Sp. p. 846; Gaz. vol. 166; p. 144.
Cotton-cleaner. A. L. Treese. No. 997,104; July 4; Sp. p. 1073; Gaz. vol. 168; p. 173.
Cotton cleaner and separator. T. E. Johnston. No. 985,037; Feb. 21; Sp. p. 3815; Gaz. vol. 163; p. 673.
Cotton cleaner and separator. C. R. Benefield. No. 1,011,015; Dec. 5; Sp. p. 1343; Gaz. vol. 173; p. 214.
Cotton cleaner, Lint-. A. W. Washburn and C. D. Keeler. No. 995,993; June 20; Sp. p. 4127; Gaz. vol. 167; p. 718.
Cotton-condenser. E. U. G. Reagan. No. 993,795; May 30; Sp. p. 6381; Gaz. vol. 166; p. 1150.
Cotton conveying and packing device. G. W. Cameron. No. 988,307; Apr. 4; Sp. p. 21; Gaz. vol. 165; p. 7.
Cotton-distributer. F. Phelps. No. 985,930; Mar. 7; Sp. p. 377; Gaz. vol. 164; p. 60.
Cotton-dropper attachment. J. S. Barganier. No. 1,007,261; Oct. 31; Sp. p. 5972; Gaz. vol. 171; p. 1090.
Cotton filling for comforts and the like. E. W. Thompson. No. 1,009,806; Nov. 28; Sp. p. 4809; Gaz. vol. 172; p. 871.
Cotton from its seed, Apparatus for separating. A. G. Myers. No. 984,589; Feb. 21; Sp. p. 2909; Gaz. vol. 163; p. 517.
Cotton-gatherer. W. A. Patterson. No. 999,395; Aug. 1; Sp. p. 404; Gaz. vol. 169; p. 71.
Cotton-gin. S. D. Murray. No. 991,876; May 9; Sp. p. 2231; Gaz. vol. 166; p. 399.
Cotton-gin. J. J. McNally. No. 1,002,598; Sept. 5; Sp. p. 935; Gaz. vol. 170; p. 139.
Cotton-gin. J. C. Hollingsworth. No. 1,006,092; Oct. 17; Sp. p. 3333; Gaz. vol. 171; p. 595.
Cotton-gin. M. Prior. No. 1,011,488; Dec. 12; Sp. p. 2446; Gaz. vol. 173; p. 417.
Cotton-gin. I. Meurling. No. 1,011,636; Dec. 12; Sp. p. 2823; Gaz. vol. 173; p. 471.
Cotton-gin. F. Phelps. No. 1,013,053; Dec. 26; Sp. p. 5916; Gaz. vol. 173; p. 1035.
Cotton-gin attachment. J. L. Standard. No. 1,001,564; Aug. 22; Sp. p. 5037; Gaz. vol. 169; p. 908.
Cotton-gin breast. P. B. Barnes. No. 996,826; July 4; Sp. p. 462; Gaz. vol. 168; p. 76.
Cotton-gin cleaner. G. D. Robertson and J. W. Cash. No. 981,115; Jan. 10; Sp. p. 2150; Gaz. vol. 162; p. 354.
Cotton-gin condenser. A. Riemenschneider. No. 1,009,576; Nov. 21; Sp. p. 4350; Gaz. vol. 172; p. 748.
Cotton-gin, Double-breasted-huller. J. L. Hart. No. 982,672; Jan. 24; Sp. p. 5473; Gaz. vol. 162; p. 944.
Cotton-gin feeders, Driving mechanism for. F. Phelps. No. 985,931; Mar. 7; Sp. p. 379; Gaz. vol. 164; p. 60.
Cotton-gin ginning member. E. R. Bullock. No. 1,003,327; Sept. 12; Sp. p. 2504; Gaz. vol. 170; p. 431.
Cotton-gin roller. W. H. Harriss. No. 1,002,842; Sept. 12; Sp. p. 1465; Gaz. vol. 170; p. 260.
Cotton-gin roller. W. H. Harriss. No. 1,002,913; Sept. 12; Sp. p. 1653; Gaz. vol. 170; p. 286.
Cotton-gin, Roller. M. Prior. No. 1,009,261; Nov. 21; Sp. p. 3653; Gaz. vol. 172; p. 638.
Cotton-gins, Brush-cylinder for. S. D. Murray. No. 1,011,831; Dec. 12; Sp. p. 3211; Gaz. vol. 173; p. 536.
Cotton-ginning-mechanism separator. C. C. Broome. No 1,002,131; Aug. 29; Sp. p. 6243; Gaz. vol. 169; p. 1129.
Cotton-ginning process and apparatus. F. T. Kent. No. 983,499; Feb. 7; Sp. p. 518; Gaz. vol. 163; p. 83.
Cotton goods, Treatment of mercerized. F. E. Böttiger. No. 1,002,026; Aug. 29; Sp. p. 6052; Gaz. vol. 169; p. 1095.
Cotton-grader. R. H. Smith. No. 991,554; May 9; Sp. p. 1566; Gaz. vol. 166; p. 289.
Cotton lap-head. O. L. Owen. No. 983,306; Feb. 7; Sp. p. 103; Gaz. vol. 163; p. 18.
Cotton opener and feeder. A. Hitchon. No 1,005,034; Oct. 3; Sp. p. 1017; Gaz. vol. 171: p. 169.
Cotton-picker. A. W. Getchell. No. 988,566; Apr. 4; Sp. p. 586; Gaz. vol. 165; p. 95.
Cotton-picker. C. E. Leaphart. No. 993,180; May 23; Sp. p. 5037; Gaz. vol. 166; p. 909.
Cotton-picker. R. S. Wheeler. No. 1,001,720; Aug. 29; Sp. p. 5381; Gaz. vol. 169; p. 962.
Cotton-picker. B. C. White. No. 1,003,836; Sept. 19; Sp. p. 3578; Gaz. vol. 170; p. 636.
Cotton-picker. B. C. White and B. C. Calderwood. No. 1,003,838; Sept. 19; Sp. p. 3581; Gaz. vol. 170; p. 637.
Cotton-picker. B. C. White. No. 1,004,835; Oct. 3; Sp. p. 616; Gaz. vol. 171; p. 102.
Cotton-picker. O. C. Houghton. No. 1,006,094; Oct. 17; Sp. p. 3337; Gaz. vol. 171; p. 595.
Cotton-picker. B. C. White. No. 1,008,229; Nov. 7; Sp. p. 1257; Gaz. vol. 172; p. 205.
Cotton-picker. B. Worthington. No. 1,012,497; Dec. 19; Sp. p. 4661; Gaz. vol. 173; p. 800.
Cotton-picker finger. B. C. White. No. 1,008,230; Nov. 7; Sp. p. 1260; Gaz. vol. 172; p. 206.
Cotton-picker's sack. E. L. Kendall. No. 997,830; July 11; Sp. p. 2633; Gaz. vol. 168; p. 452.
Cotton-pickers, Stripper for. O. C. Houghton. No. 982,676; Jan. 24; Sp. p. 5479; Gaz. vol. 162; p. 945.
Cotton-picking machine. P. P. Haring. No. 992,960; May 23; Sp. p. 4584; Gaz. vol. 166; p. 836.
Cotton-picking machine. N. Keeling. No. 993,834; May 30; Sp. p. 6466; Gaz. vol. 166; p. 1164.
Cotton-picking machine. T. J. Gray. No. 999,714; Aug. 1; Sp. p. 1017; Gaz. vol. 169; p. 176.
Cotton-picking sack. W. S. Hamm. No. 1,010,901; Dec. 5; Sp. p. 1116; Gaz. vol. 173; p. 175.
Cotton-press. A. L. Treese. No. 980,706; Jan. 3; Sp. p. 1141; Gaz. vol. 162; p. 182.
Cotton-press feeder. C. C. Epps. No. 987,869; Mar. 28; Sp. p. 4458; Gaz. vol. 164; p. 810.
Cotton-presses, Feeding mechanism for tamper. F. L. Lee. No. 1,004,045; Sept. 26; Sp. p. 4102; Gaz. vol. 170; p. 737.
Cotton-shrubs, Preventing the degeneration of. W. Schütze. No. 1,008,738; Nov. 14; Sp. p. 2514; Gaz. vol. 172; p. 423.
Cotton-stalk cutter. R. A. and C. F. Leatherwood. No. 982,613; Jan. 24; Sp. p. 5359; Gaz. vol. 162; p. 924.
Cotton-stalk stripping and breaking machine. J. L. Daniels and B. G. Kuhne. No. 986,551; Mar. 14; Sp. p. 1690; Gaz. vol. 164; p. 299.
Cotton-sweep. A. W. Porter. No. 1,001,164; Aug. 22; Sp. p. 4231; Gaz. vol. 169; p. 774.
Cotton tie-press. P. L. Howlett. No. 988,469; Apr. 4; Sp. p. 384; Gaz. vol. 165; p. 62.
Cotton-topper. L. A. Lowrey. No. 1,002,412; Sept. 5; Sp. p. 532; Gaz. vol. 170; p. 75.
Cotton-waste or the like, Apparatus for treating or cleaning. W. Cuttill and J. D. Blackwell. No. 985,731; Feb. 28; Sp. p. 5395; Gaz. vol. 163; p. 945.
Cotton, wool, silk, &c., Compressing or baling. J. W. Kirchhoff. No. 1,003,114; Sept. 12; Sp. p. 2055; Gaz. vol. 170; p. 354.
Couch and bed, Convertible. W. T. Jones. No. 982,139; Jan. 17; Sp. p. 4362; Gaz. vol. 162; p. 729.
Couch and bed, Convertible. I. Mason. No. 993,856; May 30; Sp. p. 6502; Gaz. vol. 166; p. 1171.
Couch, Bed-. T. B. Laycock. No. 981,289; Jan. 10; Sp. p. 2555; Gaz. vol. 162; p. 416.
Couch, Box-. J. Luppino. No. 984,685; Feb. 21; Sp. p. 3115; Gaz. vol. 163; p. 551.
Couch, Canopy-. E. Lehmann. No. 1,004,796; Oct. 3; Sp. p. 529; Gaz. vol. 171; p. 88.
Couch, Extensible. F. M. Tinkham. No. 984,720; Feb. 21; Sp. p. 3203; Gaz. vol. 163; p. 566.
Couch, Extension-. T. B. Laycock. No. 981,288; Jan. 10; Sp. p. 2551; Gaz. vol. 162; p. 416.
Couch, Folding. A. H. Buhler. No. 997,267; July 11; Sp. p. 1413; Gaz. vol. 168; p. 260.
Couch for use on the water. Á. Kasztriner. No. 1,002,701; Sept. 5; Sp. p. 1144; Gaz. vol. 170; p. 173.
Couch, Knockdown. I. E. Emerson. No. 995,234; June 13; Sp. p. 2461; Gaz. vol. 167; p. 426.
Couch, Metallic. R. W. Schwab. No. 983,776; Feb. 7; Sp. p. 1111; Gaz. vol. 163; p. 178.
Couch or divan. J. Luppino. No. 985,043; Feb. 21; Sp. p. 3827; Gaz. vol. 163; p. 676.
Couch-rocker. J. R. Boyd. No. 1,011,728; Dec. 12; Sp p. 2999; Gaz. vol. 173; p. 500.
Couch-roll. B. B. Farnham. No. 1,002,251; Sept. 5; Sp. p. 148; Gaz. vol. 170; p. 18.
Couch-roll guard-board. J. Moffett and C. C. Clutch. No. 1,011,074; Dec. 5; Sp. p. 1470; Gaz. vol. 173; p. 234.
Couch-support and spring-holder. C. B. Sitz. No. 987,755; Mar. 28; Sp. p. 4215; Gaz. vol. 164; p. 770.
Couch, Suspension-. J. B. Patterson. No. 1,008,431; Nov. 14; Sp. p. 1806; Gaz. vol. 172; p. 314.
Couch, Wardrobe-. J. Luppino. No. 984,829; Feb. 21; Sp. p. 3417; Gaz. vol. 163; p. 603.

Alphabetical list of inventions—Continued.

Counter. S. W. Wardwell. No. 987,273; Mar. 21; Sp. p. 3207; Gaz. vol. 164; p. 579.
Counter. I. C. Snowden. No. 988,831; Apr. 4; Sp. p. 1149; Gaz. vol. 165; p. 183.
Counter. W. G. Wolfe. No. 1,003,022; Sept. 12; Sp. p. 1857; Gaz. vol. 170; p. 322.
Counter. K. G. Holst. No. 1,007,203; Oct. 31; Sp. p. 5855; Gaz. vol. 171; p. 1069.
Counter-bin, Pivoted removable. J. B. Kirkaldie. No. 1,009,977; Nov. 28; Sp. p. 5150; Gaz. vol. 172; p. 927.
Counter-guard. W. J. Noon. No. 984,020; Feb. 14; Sp. p. 1677; Gaz. vol. 163; p. 289.
Counter-guard. W. J. Noon. No. 1,000,111; Aug. 8; Sp. p. 1900; Gaz. vol. 169; p 343.
Counter-guard. C A. Gloekler. No. 1,008,813; Nov. 14; Sp. p. 2670; Gaz. vol. 172; p. 448.
Counter-operating mechanism. C. C. Abbott. No. 999,621; Aug. 1; Sp. p. 835; Gaz. vol. 169; p. 146.
Counter, Shaft-speed. F. B. Sanborn. No. 1,001,692; Aug. 29; Sp. p. 5325; Gaz. vol. 169; p. 983.
Counter-skiving machine. F. A. Thurston. No. 994,219; June 6; Sp. p. 246; Gaz. vol. 167; p. 42.
Counterbalanced stand or cover. F. C. Roberts. No. 980,339; Jan. 3; Sp. p. 319; Gaz. vol. 162; p. 57.
Counting apparatus. R. Tojbin. No. 996,541; June 27; Sp. p. 5367; Gaz. vol. 167; p. 939.
Counting apparatus for coins and checks. W. Schlich. No. 1,001,895; Aug. 29; Sp. p. 5774; Gaz. vol. 169; p. 1052.
Counting apparatus, Loaded-truck-. R. McGahey. No. 1,000,278; Aug. 8; Sp. p. 2254; Gaz. vol. 169; p. 399.
Counting attachment. F. B. Redington. No. 985,448; Feb. 28; Sp. p. 4763; Gaz. vol. 163; p. 847.
Counting device. V. M. Haddon. No. 1,009,144; Nov. 21; Sp. p. 3363; Gaz. vol. 172; p. 595.
Counting device. M. von Bechtolsheim. No. 1,009,886; Nov. 28; Sp. p. 4968; Gaz. vol. 172; p. 897.
Counting money, tokens, &c., Device for. B. Hoffmann. No. 992,963; May 23; Sp. p. 4590; Gaz. vol. 166; p. 837.
Coupling: *See* Adjustable coupling; Air-coupling; Air and steam coupling; Air-brake coupling; Air-brake hose-coupling; Automatic coupling; Axle-coupling; Car-coupling; Car safety-coupling; Chain-coupling; Conductor-wire coupling; Drill-coupling; Elastic coupling; Electric-conductor safety-coupling; Emergency-coupling; Fire-hose coupling; Flexible coupling; Flume-coupling; Hose-coupling; Intermittent coupling; Joint-coupling; Locomotive-coupling; Pilot-coupling; Pipe-coupling; Pipe and conductor coupling; Pipe-hanger coupling; Pocket-coupling; Pulley-coupling; Pump-coupling; Rail-coupling; Railway-coupling; Railway air-coupling; Railway-rail coupling; Rod-coupling; Rope-coupling; Scythe and snathe coupling; Shaft-coupling; Shock-absorbing coupling; Stovepipe-coupling; Thill-coupling; Train-line coupling; Trolley-pole coupling; Tube-coupling; Valve-coupling; Water and steam coupling.
Coupling. W. F. Roper. No. 980,341; Jan. 3; Sp. p. 321; Gaz. vol. 162; p. 58.
Coupling. F. O. Ball. No. 980,900; Jan. 10; Sp. p. 1587; Gaz. vol. 162; p. 278.
Coupling. C. H. Chapman. (Reissue.) No. 13,222; Mar. 28; Sp. p. 5386; Gaz. vol. 164; p. 952.
Coupling. L. Dethier. No. 991,835; May 9; Sp. p. 2160; Gaz. vol. 166; p. 385.
Coupling. C. De Salme. No. 993,155; May 23; Sp. p. 4986; Gaz. vol. 166; p. 901.
Coupling. E. E. Coman No. 999,963; Aug. 8; Sp. p. 1543; Gaz. vol. 169; p. 291.
Coupling. W. A. Lorenz. No. 1,008,551; Nov. 14; Sp. p. 2086; Gaz. vol. 172; p. 357.
Coupling. W. W. Abbott. No. 1,009,458; Nov. 21; Sp. p. 4112; Gaz. vol. 172; p. 709.
Coupling. M. M. Fernandez. No. 1,011,422; Dec. 12; Sp. p. 2292; Gaz. vol. 173; p. 391.
Coupling. J. Sachs. No. 1,012,102; Dec. 19; Sp. p. 3846; Gaz. vol. 173; p. 666.
Coupling. C. C. Hogen. No. 1,012,255; Dec. 19; Sp. p. 4181; Gaz. vol. 173; p. 717.
Coupling and steering device. A. W. Hindman. No. 986,568; Mar. 14; Sp. p. 1725; Gaz. vol. 164; p. 305.
Coupling carry-iron. F. Karel. No. 982,005; Jan. 17; Sp. p. 4107; Gaz. vol. 162; p. 685.
Coupling-centering device. E. W. Newell. No. 1,004,064; Sept. 26; Sp. p. 4141; Gaz. vol. 170; p. 744.
Coupling-cushion buffer. J. A. Jackson. No. 1,002,062; Aug. 29; Sp. p. 6120; Gaz. vol. 169; p. 1106.
Coupling device. M. G. McGuire. No. 992,373; May 16; Sp. p. 3338; Gaz. vol. 166; p. 601.
Coupling device. J. M. Jones. No. 1,004,574; Oct. 3; Sp. p. 55; Gaz. vol. 171; p. 11.
Coupling device. D. E. Engle. No. 1,005,699; Oct. 10; Sp. p. 2484; Gaz. vol. 171; p. 426.
Coupling device. J. P. Padgett. No. 1,012,425; Dec. 19; Sp. p. 4524; Gaz. vol. 173; p. 774.
Coupling for cables, wires, ropes, &c. T. J. Cope. No. 1,012,328; Dec. 19; Sp. p. 4335; Gaz. vol. 173; p. 743.
Coupling-hook. J. G. Lozenski. No. 997,630; July 11; Sp. p. 2154; Gaz. vol. 168; p. 382.
Coupling-jar. W. E. Murrin. No. 1,002,601; Sept. 5; Sp. p. 944; Gaz. vol. 170; p. 140.
Coupling-knuckle pivot-pin retainer. C. P. Murray. No. 1,009,985; Nov. 28; Sp. p. 5165; Gaz. vol. 172; p. 930.
Coupling-locks, Lifting device for. A. J. Bazeley. No. 1,012,969; Dec. 26; Sp. p. 5734; Gaz. vol. 173; p. 1006.
Coupling-pipe. J. H. Glauber. No. 980,939; Jan. 10; Sp. p. 1686; Gaz. vol. 162; p. 291.
Coupling-releasing mechanism. A. Christianson. No. 989,945; Apr. 18; Sp. p. 3555; Gaz. vol. 165; p. 617.
Coupling-ring. I. Cooper. No. 1,000,992; Aug. 22; Sp. p. 3866; Gaz. vol. 169; p. 715.
Coupon-card. G. Allegretti. No. 1,011,706; Dec. 12; Sp. p. 2947; Gaz. vol. 173; p. 493.
Course and distance finder. G. H. Burrage. No. 982,793; Jan. 31; Sp. p. 5742; Gaz. vol. 162; p. 1012.
Cover and dish-drainer, Combination. H. Greason. No. 1,001,520; Aug. 22; Sp. p. 4943; Gaz. vol. 169; p. 893.
Cover and lock therefor. W. H. Lutes. No. 1,006,245; Oct. 17; Sp. p. 3703; Gaz. vol. 171; p. 651.
Cover and socket-piece, Combined. J. Hamilton. No. 1,001,948; Aug. 29; Sp. p. 5899; Gaz. vol. 169; p. 1069.
Cover attachment. T. McCabe. No. 987,087; Mar. 14; Sp. p. 2771; Gaz. vol. 164; p. 479.
Cover, Clean-out. J. E. Costa. No. 996,461; June 27; Sp. p. 5212; Gaz. vol. 167; p. 913.
Cover-closure for sheet-metal vessels. C. Stollberg. No. 984,614; Feb. 21; Sp. p. 2966; Gaz. vol. 163; p. 526.
Cover, Cooking-utensil. A. N. Howell. No. 997,821; July 11; Sp. p. 2618; Gaz. vol. 168; p. 449.
Cover, Cooking-vessel. G. O. A. Lillegord. No. 999,376; Aug. 1; Sp. p. 369; Gaz. vol. 169; p. 65.
Cover-fastener. D. Nadeau. No. 996,116; June 27; Sp. p. 4392; Gaz. vol. 167; p. 795.
Cover for household utensils. R. C. Wilson. No. 992,094; May 9; Sp. p. 2652; Gaz. vol. 166; p. 472.
Cover for kettles, &c. J. E. Cepeda. No. 993,505; May 30; Sp. p. 5743; Gaz. vol. 166; p. 1049.
Cover handle, Vessel-. G. W. Knapp. No. 1,005,557; Oct. 10; Sp. p. 2165; Gaz. vol. 171; p. 377.
Cover, Receptacle-. H. B. Morse. No. 983,832; Feb. 7; Sp. p. 1241; Gaz. vol. 163; p. 198.
Cover, Safety-. W. Bartholomew and F. Balzer. No. 1,006,523; Oct. 24; Sp. p. 4331; Gaz. vol. 171; p. 777.
Cover, Vessel-. S. Skiba. No. 1,002,004; Aug. 29; Sp. p. 6013; Gaz. vol. 169; p. 1088.
Covers on receptacles, Machine for clamping. L. Blumenthal. No. 983,117; Jan. 31; Sp. p. 6453; Gaz. vol. 162; p. 1121.
Covering-roller. C. Jass. No. 995,871; June 20; Sp. p. 3896; Gaz. vol. 167; p. 676.
Cow antikicking device. J. H. Schimke. No. 1,012,165; Dec. 19; Sp. p. 3983; Gaz. vol. 173; p. 687.
Cow-tail holder. L. H. Bigelow. No. 986,894; Mar. 14; Sp. p. 2426; Gaz. vol. 164; p. 419.
Cow-tail holder. A. E. Staples. No. 992,995; May 23; Sp. p. 4647; Gaz. vol. 166; p. 848.
Cow-tail holder. H. C. Malmstrom. No. 1,006,109; Oct. 17; Sp. p. 3365; Gaz. vol. 171; p. 600.
Cradle. L. T. Velen. No. 981,336; Jan. 10; Sp. p. 2658; Gaz. vol. 162; p. 432.
Crane. G. A. True. No. 981,820; Jan. 17; Sp. p. 3669; Gaz. vol. 162; p. 620.
Crane. J. W. Pogue. No. 997,934; July 11; Sp. p. 2862; Gaz. vol. 168; p. 488.
Crane. I. F. Taylor. No. 998,134; July 18; Sp. p. 3335; Gaz. vol. 168; p. 601.
Crane. M. Campistrou. No. 1,011,739; Dec. 12; Sp. p. 3019; Gaz. vol. 173; p. 504.
Crane and derrick, Electric. J. M. Kelley. No. 989,506; Apr. 11; Sp. p. 2555; Gaz. vol. 165; p. 433.
Crane, Builder's. C. H. Stresenreuter. No. 983,578; Feb. 7; Sp. p. 704; Gaz. vol. 163; p. 110.
Crane, Collapsible water-. E. R. Sheetz. No. 1,008,675; Nov. 14; Sp. p. 2377; Gaz. vol. 172; p. 401.
Crane, Horn-. C. Beecroft. No. 984,184; Feb. 14; Sp. p. 2006; Gaz. vol. 163; p. 344.
Crane, Jib-. F. Sochor. No. 980,846; Jan. 3; Sp. p. 1423; Gaz. vol. 162; p. 228.
Crane, Ladle-. W. H. Morgan. No. 980,321; Jan. 3; Sp. p. 274; Gaz. vol. 162; p. 50.
Crane or derrick. A. P. Lundin. No. 986,399; Mar. 7; Sp. p. 1356; Gaz. vol. 164; p. 218.
Crane, Overhead. C. L. Taylor. No. 996,162; June 27; Sp. p. 4487; Gaz. vol. 167; p. 811.
Crane, Portable jib-. W. S. Craig. No. 998,469; July 18; Sp. p. 4066; Gaz. vol. 168; p. 720.
Crane safety appliance, Jib-. A. Patton. No. 992,446; May 16; Sp. p. 3474; Gaz. vol. 166; p. 625.
Crane, Spreader-. J. Hladky. No. 981,561; Jan. 10; Sp. p. 3119; Gaz. vol. 162; p. 509.
Crane, Train-order. F. Hachmann. No. 985,163; Feb. 28; Sp. p. 4119; Gaz. vol. 163; p. 750.
Crane, Traveling. W. F. Brothers. No. 1,000,773; Aug. 15; Sp. p. 3377; Gaz. vol. 169; p. 606.
Cranes and the like, Collector for traveling. E. L. Hoofring. No. 1,008,913; Nov. 14; Sp. p. 2857; Gaz. vol. 172; p. 481.
Cranes, Truck-mounting for traveling. H. W. Israel. No. 989,155; Apr. 11; Sp. p. 1819; Gaz. vol. 165; p. 315.
Cranes, Winding mechanism for electric jib-. A. Bode and K. Böttcher. No. 1,003,976; Sept. 26; Sp. p. 3924; Gaz. vol. 170; p. 713.

Alphabetical list of inventions—Continued.

Crank. J. N. McGriff. No. 991,340; May 2; Sp. p. 1103; Gaz. vol. 166; p. 184.
Crank and rotary engine, Combined compound. G. C. Richards. No. 1,006,276; Oct. 17; Sp. p. 3767; Gaz. vol. 171; p. 662.
Crank, Automatic locking-. C. C. Rittenhouse. No. 996,142; June 27; Sp. p. 4441; Gaz. vol. 167; p. 804.
Crank-handle, Detachable. L. Hayne. No. 1,006,086; Oct. 17; Sp. p. 3320; Gaz. vol. 171; p. 592.
Crank-hanger. M. Schenck. No. 986,596; Mar. 14; Sp. p. 1786; Gaz. vol. 164; p. 316.
Crank-hanger, Adjustable. C. L. Jenness. No. 987,370; Mar. 21; Sp. p. 3402; Gaz. vol. 164; p. 610.
Crank-pin-turning machine. J. Riddell. No. 1,011,849; Dec. 12; Sp. p. 3261; Gaz. vol. 173; p. 541.
Cranking device, Safety. G. M. Fisher and A. E. Embleton. No. 986,275; Mar. 7; Sp. p. 1083; Gaz. vol. 164; p. 174.
Cranking device, Safety. E. B. Calkins. No. 1,002,898; Sept. 12; Sp. p. 1616; Gaz. vol. 170; p. 280.
Cranking device, Safety. E. B. Calkins. No. 1,002,899; Sept. 12; Sp. p. 1621; Gaz. vol. 170; p. 280.
Crape-holder. C. H. Tierney. No. 997,519; July 11; Sp. p. 1909; Gaz. vol. 168; p. 342.
Crate. J. E. Tate. No. 986,102; Mar. 7; Sp. p. 735; Gaz. vol. 164; p. 118.
Crate. R. J. Mowen. No. 992,896; May 23; Sp. p. 4430; Gaz. vol. 166; p. 813.
Crate. H. D. Bokop. No. 1,006,905; Oct. 24; Sp. p. 5190; Gaz. vol. 171; p. 912.
Crate and box, Folding. J. S. Mosholder and H. I. Blough. No. 997,931; July 11; Sp. p. 2855; Gaz. vol. 168; p. 487.
Crate and box, Folding. L. J. Betz and W. F. Noe. No. 998,456; July 18; Sp. p. 4032; Gaz. vol. 168; p. 716.
Crate, Animal-holding. F. Kirchoff. No. 994,752; June 13; Sp. p. 1437; Gaz. vol. 167; p. 265.
Crate attachment, Berry-. P. A. Wimbrow. No. 1,011,692; Dec. 12; Sp. p. 2922; Gaz. vol. 173; p. 488.
Crate, Banana-. F. E. Sterrett. No. 1,003,540; Sept. 19; Sp. p. 2936; Gaz. vol. 170; p. 536.
Crate, Bottle-. F. E. Hofgren. No. 994,397; June 6; Sp. p. 622; Gaz. vol. 167; p. 106.
Crate, Bottle-. W. H. Klocke. No. 1,010,269; Nov. 28; Sp. p. 5732; Gaz. vol. 172; p. 1026.
Crate, Collapsible. A. A. Taylor. No. 991,666; May 9; Sp. p. 1818; Gaz. vol. 166; p. 330.
Crate, Collapsible. W. H. Dodge. No. 1,005,520; Oct. 10; Sp. p. 2066; Gaz. vol. 171; p. 363.
Crate, Collapsible banana-. B. Hill and R. C. Johnson. No. 1,002,271; Sept. 5; Sp. p. 188; Gaz. vol. 170; p. 24.
Crate, Folding. A. J. Cone. No. 982,350; Jan. 24; Sp. p. 4809; Gaz. vol. 162; p. 833.
Crate, Folding. E. A. Maker. No. 990,367; Apr. 25; Sp. p. 4476; Gaz. vol. 165; p. 792.
Crate, Folding. L. P. Cook. No. 991,701; May 9; Sp. p. 1894; Gaz. vol. 166; p. 342.
Crate, Folding. M. A. Griffin. No. 992,189; May 16; Sp. p. 2876; Gaz. vol. 166; p. 536.
Crate, Folding. R. L. Pickering. No. 995,712; June 20; Sp. p. 3525; Gaz. vol. 167; p. 621.
Crate, Folding. P. M. Long. No. 995,880; June 20; Sp. p. 3911; Gaz. vol. 167; p. 679.
Crate, Folding. M. Goldstein. No. 1,004,414; Sept. 26; Sp. p. 4896; Gaz. vol. 170; p. 863.
Crate, Folding. W. J. Reeser. No. 1,005,876; Oct. 17; Sp. p. 2861; Gaz. vol. 171; p. 520.
Crate, Folding. J. R. Crowder and A. C. Sansbury. No. 1,008,700; Nov. 14; Sp. p. 2426; Gaz. vol. 172; p. 410.
Crate, Folding. J. H. Kidwell. No. 1,012,366; Dec. 19; Sp. p. 4414; Gaz. vol. 173; p. 755.
Crate, Hog and poultry. G. W. Reed, Jr. No. 1,012,157; Dec. 19; Sp. p. 3963; Gaz. vol. 173; p. 684.
Crate, Knockdown. C. B. Weatherby. No. 989,739; Apr. 18; Sp. p. 3107; Gaz. vol. 165; p. 546.
Crate, Knockdown. L. Anderson. No. 1,003,686; Sept. 19; Sp. p. 3286; Gaz. vol. 170; p. 588.
Crate, Knockdown shipping-. G. M. Walker. No. 988,414; Apr. 4; Sp. p. 269; Gaz. vol. 165; p. 44.
Crate-lids and the like, Locking device for. A. P. Honey. No. 1,007,204; Oct. 31; Sp. p. 5860; Gaz. vol. 171; p. 1070.
Crate or box, Folding. C. H. Stall. No. 989,074; Apr. 11; Sp. p. 1653; Gaz. vol. 165; p. 287.
Crate or box forming machine. E. Nitschmann. No. 992,580; May 16; Sp. p. 3765; Gaz. vol. 166; p. 673.
Crate, Shipping-. C. A. Walton. No. 986,249; Mar. 7; Sp. p. 1032; Gaz. vol. 164; p. 166.
Crate, Shipping-. R. and R. Muehr. No. 986,587; Mar. 14; Sp. p. 1764; Gaz. vol. 164; p. 312.
Crate, Shipping-. A. M. and F. M. Gifford. No. 1,002,511; Sept. 5; Sp. p. 735; Gaz. vol. 170; p. 108.
Crate, Shipping-. L. H. Wyman. No. 1,003,573; Sept. 19; Sp. p. 3036; Gaz. vol. 170; p. 547.
Crayon-holder. E. Wilson. No. 1,012,229; Dec. 19; Sp. p. 4130; Gaz. vol. 173; p. 709.
Cream and milk testing device. M. G. Campau. No. 1,010,016; Nov. 28; Sp. p. 5253; Gaz. vol. 172; p. 941.
Cream-cone filler. J. Edwards. No. 990,479; Apr. 25; Sp. p. 4732; Gaz. vol. 165; p. 832.
Cream-cooler. J. E. Wrage and H. D. Dunn. No. 1,010,563; Dec. 5; Sp. p. 355; Gaz. vol. 173; p. 57.
Cream-extractor. A. W. Spaulding and C. K. Bender. No. 997,425; July 11; Sp. p. 1722; Gaz. vol. 168; p. 312.
Cream, Homogenizing. J. Willmann. No. 1,004,515; Sept. 26; Sp. p. 5099; Gaz. vol. 170; p. 898.
Cream of tartar, Manufacture of. J. B. Moszczenski. No. 1,000,433; Aug. 15; Sp. p. 2604; Gaz. vol. 169; p. 485.
Cream-removing device. E. J. Mullineaux. No. 984,838; Feb. 21; Sp. p. 3435; Gaz. vol. 163; p. 606.
Cream-ripener. H. J. Grell. No. 990,352; Apr. 25; Sp. p. 4443; Gaz. vol. 165; p. 786.
Cream-separator. A. B. Brown. No. 999,747; Aug. 8; Sp. p. 1104; Gaz. vol. 169; p. 218.
Cream-separator. S. C. Anker-Holth. No. 1,006,174; Oct. 17; Sp. p. 3531; Gaz. vol. 171; p. 626.
Cream-separator. H. O. Fisher. No. 1,008,896; Nov. 14; Sp. p. 2830; Gaz. vol. 172; p. 476.
Cream-separator and churn. A. Fay. No. 991,435; May 2; Sp. p. 1294; Gaz. vol. 166; p. 216.
Cream-separator and churn. A. Fay. No. 996,916; July 4; Sp. p. 658; Gaz. vol. 168; p. 107.
Cream-separator, Centrifugal. C. M. Ketcham. No. 998,529; July 18; Sp. p. 4183; Gaz. vol. 168; p. 741.
Cream-separator, Centrifugal. A. Dehne. No. 1,002,970; Sept. 12; Sp. p. 1758; Gaz. vol. 170; p. 305.
Cream-separator, Centrifugal. C. H. Hackett and T. W. Morgan. No. 1,011,192; Dec. 12; Sp. p. 1779; Gaz. vol. 173; p. 311.
Cream-separator detachable distributer. W. C. Hartmann. No. 1,002,914; Sept. 12; Sp. p. 1655; Gaz. vol. 170; p 286.
Cream-separator disks, Means for treating. A. H. Voeck. No. 988,606; Apr. 4; Sp. p. 683; Gaz. vol. 165; p. 109.
Cream-separator driving mechanism. F. G. McMullen. No. 1,006,768; Oct. 24; Sp. p. 4861; Gaz. vol. 171; p. 863.
Cream-separators and the like, Speed-timing device for. J. K. Stewart. No. 995,199; June 13; Sp. p. 2387; Gaz. vol. 167; p. 414.
Cream-separators, Combined handle and pulley for. F. A. Shoberg. No. 1,000,303; Aug. 8; Sp. p. 2300; Gaz. vol. 169; p. 408.
Cream-separators, Disk for turbine. H. B. Garman. No. 984,807; Feb. 21; Sp. p. 3378; Gaz. vol. 163; p. 595.
Cream-separators, Driving attachment for. O. F. Kohlwey. No. 990,881; May 2; Sp. p. 119; Gaz. vol. 166; p. 22.
Cream-separators, Gearing for. L. A. MacLean. No. 998,365; July 18; Sp. p. 3867; Gaz. vol. 168; p. 868.
Cream-tester. M. G. Campau. No. 987,613; Mar. 21; Sp. p. 3886; Gaz. vol. 164; p. 692.
Cream-tester. W. Spraley. No. 995,192; June 13; Sp. p. 2378; Gaz. vol. 167; p. 412.
Cream-tester. M. G. Campau. No. 1,002,366; Sept. 5; Sp. p. 439; Gaz. vol. 170; p. 61.
Creasing machine, Vamp-. J. S. Hansen. No. 1,002,393; Sept. 5; Sp. p. 502; Gaz. vol. 170; p. 70.
Credit-register leaf. F. Peterson. No. 1,007,384; Oct. 31; Sp. p. 6229; Gaz. vol. 171; p. 1134.
Creel-frame for textile machinery. E. Gminder. No. 1,010,746; Dec. 5; Sp. p. 779; Gaz. vol. 173; p. 122.
Creeper. N. Triantafilu. No. 985,954; Mar. 7; Sp. p. 420; Gaz. vol. 164; p. 67.
Cremated bodies, Contrivance for preserving the ashes of. A. Marsch. No. 991,866; May 9; Sp. p. 2215; Gaz. vol. 166; p. 396.
Cremation-furnace. A. H. Davidson and S. Sundelius. No. 1,007,543; Oct. 31; Sp. p. 6573; Gaz. vol. 171; p. 1188.
Crematory, Electrical. L. H. Giddings. No. 989,960; Apr. 18; Sp. p. 3581; Gaz. vol. 165; p. 621.
Crematory, Human. J. Conley. No. 988,862; Apr. 4; Sp. p. 1206; Gaz. vol. 165; p. 193.
Crib, Baby-. R. M. Lamb. No. 992,007; May 9; Sp. p. 2489; Gaz. vol. 166; p. 443.
Crib, Folding. P. A. De Groot. No. 993,763; May 30; Sp. p. 6319; Gaz. vol. 166; p. 1140.
Crimping-machine. F. H. Stolp. No. 1,002,334; Sept. 5; Sp. p. 349; Gaz. vol. 170; p. 50.
Crimping-machine, Automatic. A. B. Starr. No. 1,013,081; Dec. 26; Sp. p. 5972; Gaz. vol. 173; p. 1045.
Crimping-machines, Spinning-disk for. G. W. Beadle. No. 1,010,215; Nov. 28; Sp. p. 5636; Gaz. vol. 172; p. 1008.
Crimping mechanism. F. H. Nullmeyer. No. 1,005,742; Oct. 10; Sp. p. 2564; Gaz. vol. 171; p. 441.
Cross and switch tie. J. T. Phares, C. Mieher, and M. Seyfrit. No. 1,011,839; Dec. 12; Sp. p. 3236; Gaz. vol. 173; p. 539.
Cross-head. J. A. Giles. No. 994,149; June 6; Sp. p. 92; Gaz. vol. 167; p. 18.
Cross-head. W. A. Prince. No. 1,009,569; Nov. 21; Sp. p. 4336; Gaz. vol. 172; p. 746.
Cross-head or clevis pin. J. G. Andregg. No. 1,011,398; Dec. 12; Sp. p. 2241; Gaz. vol. 173; p. 383.
Cross-tie. A. B. McKaughan. No. 995,980; June 20; Sp. p. 4105; Gaz. vol. 167; p. 714.
Cross-tie. W. D. Forsyth. No. 996,631; July 4; Sp. p. 80; Gaz. vol. 168; p. 14.

Alphabetical list of inventions—Continued.

Cross-tie. J. T. Andrew. No. 1,001,333; Aug. 22; Sp. p. 4596; Gaz. vol. 169; p. 831.
Cross-tie. W. E. Jones. No. 1,005,648; Oct. 10; Sp. p. 2386; Gaz. vol. 171; p. 409.
Cross-tie. A. L. Whaley. No. 1,006,813; Oct. 24; Sp. p. 4972; Gaz. vol. 171; p. 880.
Cross-tie and rail-fastener, Metallic. H. Christman. No. 982,126; Jan. 17; Sp. p. 4343; Gaz. vol. 162; p. 725.
Cross-tie and rail-fastener, Metallic. R. C. Haskell and E. J. Dart. No. 1,006,208; Oct. 17; Sp. p. 3622; Gaz. vol. 171; p. 638.
Cross-tie, Combination steel and concrete. S. A. Barber. No. 1,003,316; Sept. 12; Sp. p. 2477; Gaz. vol. 170; p. 427.
Cross-tie, Insulated metal. A. C. Dinkey. No. 984,802; Feb. 21; Sp. p. 3366; Gaz. vol. 163; p. 594.
Cross-tie, Metal. R. Wheeler. No. 996,742; July 4; Sp. p. 285; Gaz. vol. 168; p. 49.
Crossing-signal. T. M. Flaherty. No. 991,964; May 9; Sp. p. 2412; Gaz. vol. 166; p. 429.
Crosscutting-machine. W. P. Bosworth. No. 987,948; Mar. 28; Sp. p. 4681; Gaz. vol. 164; p. 838.
Crossover, Portable. J. Kerwin. No. 1,000,270; Aug. 8; Sp. p. 2229; Gaz. vol. 169; p. 396.
Crown-pin. F. J. Starr. No. 984,782; Feb. 21; Sp. p. 3334; Gaz. vol. 163; p. 588.
Crucible-cover. T. McGrath. No. 982,437; Jan. 24; Sp. p. 4988; Gaz. vol. 162; p. 863.
Crucible-furnace. E. H. Schwartz. No. 1,001,696; Aug. 29; Sp. p. 5331; Gaz. vol. 169; p. 984.
Crucible-furnace or the like. W. Buess. No. 987,793; Mar. 28; Sp. p. 4299; Gaz. vol. 164; p. 783.
Crucible-lid. W. and T. Ross. No. 992,599; May 16; Sp. p. 3823; Gaz. vol. 166; p. 681.
Crupper. G. T. Williamson. No. 1,003,564; Sept. 19; Sp. p. 3018; Gaz. vol. 170; p. 544.
Crusher: *See* Coal-crusher; Clod-crusher; Ore-crusher; Rock-crusher; Rock and ore crusher; Stone-crusher; Vegetable-crusher.
Crusher. J. P. Fox. No. 1,007,935; Nov. 7; Sp. p. 651; Gaz. vol. 172; p. 101.
Crusher. T. Willma. No. 1,009,004; Nov. 14; Sp. p. 3073; Gaz. vol. 172; p. 510.
Crusher and pulverizer. F. L. Buchanan. No. 991,477; May 9; Sp. p. 1386; Gaz. vol. 166; p. 262.
Crusher-head. V. W. Mason, Jr. No. 993,783; May 30; Sp. p. 6359; Gaz. vol. 166; p. 1146.
Crushing and grinding mill, Roller. J. E. Hovendick. No. 1,000,913; Aug. 15; Sp. p. 3647; Gaz. vol. 169; p. 655.
Crushing and mixing machine. C. F. A. Chapitel. No. 998,840; July 25; Sp. p. 4902; Gaz. vol. 168; p. 882.
Crushing and separating fine materials. T. A. Edison. No. 1,002,504; Sept. 5; Sp. p. 725; Gaz. vol. 170; p. 106.
Crushing-machine. J. E. Symons. No. 982,899; Jan. 31; Sp. p. 5980; Gaz. vol. 162; p. 1049.
Crushing-machine. J. J. Smiddy. No. 990,018; Apr. 18; Sp. p. 3700; Gaz. vol. 165; p. 641.
Crushing-machine. T. L. and T. J. Sturtevant. No. 995,580; June 20; Sp. p. 3244; Gaz. vol. 167; p. 574.
Crushing-machine. E. B. Symons. No. 1,005,358; Oct. 10; Sp. p. 1723; Gaz. vol. 171; p. 307.
Crushing-machine. E. J. Steckle. No. 1,006,143; Oct. 17; Sp. p. 3461; Gaz. vol. 171; p. 614.
Crushing-machine. W. A. Box. No. 1,007,059; Oct. 31; Sp. p. 5506; Gaz. vol. 171; p. 1017.
Crushing-machine. E. B. Symons. No. 1,010,977; Dec. 5; Sp. p. 1272; Gaz. vol. 173; p. 202.
Crushing-mill. T. J. Sturtevant. No. 988,403; Apr. 4; Sp. p. 247; Gaz. vol. 165; p. 40.
Crushing-mill. T. L. and T. J. Sturtevant. No. 1,000,457; Aug. 15; Sp. p. 2654; Gaz. vol. 169; p. 493.
Crushing-mill. A. B. Emory. No. 1,002,379; Sept. 5; Sp. p. 465; Gaz. vol. 170; p. 65.
Crushing-mill. A. Knappenberger. No. 1,003,362; Sept. 12; Sp. p. 2570; Gaz. vol. 170; p. 442.
Crutch. C. E. Kritsch. No. 986,999; Mar. 14; Sp. p. 2611; Gaz. vol. 164; p. 451.
Crutch. P. R. Wilde. No. 989,463; Apr. 11; Sp. p. 2473; Gaz. vol. 165; p. 418.
Crutch. S. J. Trask. No. 991,104; May 2; Sp. p. 571; Gaz. vol. 166; p. 100.
Crutch. W. B. Parsons. No. 1,004,899; Oct. 3; Sp. p. 777; Gaz. vol. 171; p. 124.
Crutch, Adjustable. F. E. Shadell and F. W. Cassidy. No. 987,497; Mar. 21; Sp. p. 3666; Gaz. vol. 164; p. 654.
Crutch and cane tip. P. W. Pratt. No. 994,194; June 6; Sp. p. 196; Gaz. vol. 167; p. 34.
Crutch attachment. K. D. Harding. No. 1,003,103; Sept. 12; Sp. p. 2036; Gaz. vol. 170; p. 350.
Crutch, Cushion-. H. H. Flynn. No. 994,584; June 6; Sp. p. 1001; Gaz. vol. 167; p. 167.
Crutch-supporting attachment. L. Remick. No. 1,006,791; Oct. 24; Sp. p. 4923; Gaz. vol. 171; p. 871.
Cryptograph-machine. F. R. McBerty. No. 984,832; Feb. 21; Sp. p. 3424; Gaz. vol. 163; p. 604.
Crystals from solutions of different kinds, Producing large well-formed. J. Bock. No. 984,645; Feb. 21; Sp. p. 3035; Gaz. vol. 163; p. 537.
Crystals, Producing. H. H. Dow. No. 1,004,858; Oct. 3; Sp. p. 675; Gaz. vol. 171; p. 110.
Cue-locking device. C. W. Toomey. No. 997,428; July 11; Sp. p. 1729; Gaz. vol. 168; p. 314.
Cue-rack. M. R. Bass and W. A. Alexander. No. 1,007,414; Oct. 31; Sp. p. 6287; Gaz. vol. 171; p. 1144.
Cue-tip holder. E. A. Sacket. No. 985,067; Feb. 21; Sp. p. 3870; Gaz. vol. 163; p. 683.
Cuff. E. G. Johnson. No. 981,279; Jan. 10; Sp. p. 2535; Gaz. vol. 162; p. 413.
Cuff. L. Lauer, Jr. No. 999,569; Aug. 1; Sp. p. 745; Gaz. vol. 169; p. 128.
Cuff and sleeve protector, Adjustable. A. G. Maynard. No. 990,280; Apr. 25; Sp. p. 4271; Gaz. vol. 165; p. 761.
Cuff-forming press. A. L. Jobes. No. 985,903; Mar. 7; Sp. p. 313; Gaz. vol. 164; p. 50.
Cuff-holder. J. R. Jarrell. No. 988,103; Mar. 28; Sp. p. 5019; Gaz. vol. 164; p. 890.
Cuff-pin. E. W. Morehouse. No. 1,008,664; Nov. 14; Sp. p. 2351; Gaz. vol. 172; p. 397.
Cuff-press. W. Bartholomew. No. 1,006,524; Oct. 24; Sp. p. 4336; Gaz. vol. 171; p. 778.
Cuff-protector. I. E. Walker. No. 999,136; July 25; Sp. p. 5536; Gaz. vol. 168; p. 984.
Cuirass, Bullet-proof. C. Keill. No. 1,003,270; Sept. 12; Sp. p. 2391; Gaz. vol. 170; p. 411.
Culinary article. F. Scott. No. 990,168; Apr. 18; Sp. p. 4000; Gaz. vol. 165; p. 690.
Culinary beater. W. A. Hanna. No. 1,001,949; Aug. 29; Sp. p. 5900; Gaz. vol. 169; p. 1070.
Culinary device. H. R. French. No. 1,010,887; Dec. 5; Sp. p. 1083; Gaz. vol. 173; p. 170.
Culinary utensil. A. R. Frisz. No. 1,010,037; Nov. 28; Sp. p. 5295; Gaz. vol. 172; p. 949.
Cultivating machine, Land-. J. Muggli. No. 996,998; July 4; Sp. p. 860; Gaz. vol. 168; p. 138.
Cultivator. J. H. Foster. No. 980,410; Jan. 3; Sp. p. 476; Gaz. vol. 162; p. 82.
Cultivator. W. F. Abercrombie. No. 981,600; Jan. 17; Sp. p. 3209; Gaz. vol. 162; p. 545.
Cultivator. J. R. West. No. 982,912; Jan. 31; Sp. p. 6006; Gaz. vol. 162; p. 1052.
Cultivator. J. M. Allen. No. 982,921; Jan. 31; Sp. p. 6030; Gaz. vol. 162; p. 1055.
Cultivator. R. M. Kelly. No. 983,450; Feb. 7; Sp. p. 413; Gaz. vol. 163; p. 67.
Cultivator. R. W. Wise. No. 984,174; Feb. 14; Sp. p. 1988; Gaz. vol. 163; p. 341.
Cultivator. R. E. McNamara. No. 986,481; Mar. 14; Sp. p. 1544; Gaz. vol. 164; p. 276.
Cultivator. S. H. Tinsman. No. 986,607; Mar. 14; Sp. p. 1806; Gaz. vol. 164; p. 320.
Cultivator. J. W. Beckman. No. 986,674; Mar. 14; Sp. p. 1948; Gaz. vol. 164; p. 343.
Cultivator. A. A. Kellogg. No. 989,365; Apr. 11; Sp. p. 2271; Gaz. vol. 165; p. 385.
Cultivator. G. W. Webster. No. 990,024; Apr. 18; Sp. p. 3708; Gaz. vol. 165; p. 643.
Cultivator. H. R. Alkire. No. 992,630; May 16; Sp. p 3870; Gaz. vol. 166; p. 690.
Cultivator. L. Marsilii. No. 992,727; May 16; Sp. p 4053; Gaz. vol. 166; p. 724.
Cultivator. A. C. Lindgren. No. 993,081; May 23; Sp. p. 4832; Gaz. vol. 166; p. 877.
Cultivator. J. Harper. No. 996,240; June 27; Sp. p. 4702; Gaz. vol. 167; p. 837.
Cultivator. J. L. Burton. No. 996,562; June 27; Sp. p. 5401; Gaz. vol. 167; p. 945.
Cultivator. A. Taylor. No. 997,426; July 11; Sp. p. 1724; Gaz. vol. 168; p. 313.
Cultivator. L. E. Waterman. No. 1,000,651; Aug. 15; Sp. p. 3107; Gaz. vol. 169; p. 563.
Cultivator. B. H. Phillips. No. 1,001,439; Aug. 22; Sp. p. 4810; Gaz. vol. 169; p. 867.
Cultivator. C. P. Hodges. No. 1,001,955; Aug. 29; Sp. p. 5919; Gaz. vol. 169; p. 1072.
Cultivator. J. M. Wright. No. 1,002,951; Sept. 12; Sp. p. 1729; Gaz. vol. 170; p. 299.
Cultivator. J. C. Berry. No. 1,003,394; Sept. 12; Sp. p. 2630; Gaz. vol. 170; p. 452.
Cultivator. W. E. Brown. No. 1,003,869; Sept. 19; Sp. p. 3649; Gaz. vol. 170; p. 649.
Cultivator. W. L. Paul. No. 1,003,941; Sept. 19; Sp. p. 3841; Gaz. vol. 170; p. 674.
Cultivator. C. A. Corwin. No. 1,004,374; Sept. 26; Sp. p. 4810; Gaz. vol. 170; p. 850.
Cultivator. A. C. Lindgren. No. 1,005,242; Oct. 10; Sp. p. 1444; Gaz. vol. 171; p. 264.
Cultivator. I. A. Weaver. No. 1,006,032; Oct. 17; Sp. p. 3198; Gaz. vol. 171; p. 574.
Cultivator. S. L. Allen. No. 1,008,445; Nov. 14; Sp. p. 1850; Gaz. vol. 172; p. 319.
Cultivator. B. F. Luke and C. L. Allen. No. 1,008,837; Nov. 14; Sp. p. 2715; Gaz. vol. 172; p. 457.
Cultivator. L. S. Ellett. No. 1,009,292; Nov. 21; Sp. p. 3728; Gaz. vol. 172; p. 649.
Cultivator. J. N. Graber. No. 1,009,506; Nov. 21; Sp. p. 4212; Gaz. vol. 172; p. 725.
Cultivator. R. W. E. Hayes. No. 1,009,663; Nov. 21; Sp. p. 4495; Gaz. vol. 172; p. 774.

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Cultivator. G. C. Letherman. No. 1,010,276; Nov. 28; Sp. p. 5766; Gaz. vol. 172; p. 1029.
Cultivator. J. T. Hawker. No. 1,010,362; Nov. 28; Sp. p. 5943; Gaz. vol. 172; p. 1057.
Cultivator. O. C. Warrick. No. 1,011,295; Dec. 12; Sp. p. 2022; Gaz. vol. 173; p. 348.
Cultivator. H. Petersen. No. 1,012,221; Dec. 19; Sp. p. 4114; Gaz. vol. 173; p. 705.
Cultivator and harrow, Disk. C. W. Gerdes. No. 982,051; Jan. 17; Sp. p. 4198; Gaz. vol. 162; p. 700.
Cultivator and sectional cultivator-teeth. S. L. Allen. No. 997,943; July 18; Sp. p. 2903; Gaz. vol. 168; p. 533.
Cultivator and seeder, Combined. E. B. Rahner. No. 992,248; May 16; Sp. p. 3048; Gaz. vol. 166; p. 557.
Cultivator-arch, Adjustable. F. C. Fortner. No. 997,797; July 11; Sp. p. 2574; Gaz. vol. 168; p. 441.
Cultivator attachment. L. Sonier. No. 981,023; Jan. 10; Sp. p. 1952; Gaz. vol. 162; p. 322.
Cultivator attachment. L. W. Stewart. No. 981,493; Jan. 10; Sp. p. 2988; Gaz. vol. 162; p. 486.
Cultivator attachment. M. Hendren. No. 983,493; Feb. 7; Sp. p. 504; Gaz. vol. 163; p. 81.
Cultivator attachment. G. W. Parmer and J. W. Miller. No. 986,209; Mar. 7; Sp. p. 940; Gaz. vol. 164; p. 153.
Cultivator attachment. D. D. McMillin. No. 991,341; May 2; Sp. p. 1103; Gaz. vol. 166; p. 184.
Cultivator attachment. E. T. Underwood. No. 1,009,356; Nov. 21; Sp. p. 3865; Gaz. vol. 172; p. 672.
Cultivator attachment. J. M. Jez. No. 1,010,267; Nov. 28; Sp. p. 5730; Gaz. vol. 172; p. 1025.
Cultivator, Corn-. F. A. Preuss. No. 993,403; May 30; Sp. p. 5512; Gaz. vol. 166; p. 1015.
Cultivator, Corn-. W. Parkhurst. No. 996,512; June 27; Sp. p. 5299; Gaz. vol. 167; p. 929.
Cultivator-disk journal. E. S. Doyle. No. 981,984; Jan. 17; Sp. p. 4062; Gaz. vol. 162; p. 677.
Cultivator-fender. C. T. Luke. No. 1,003,365; Sept. 12; Sp. p. 2577; Gaz. vol. 170; p. 444.
Cultivator-foot adjuster. J. S. Dickey. No. 984,650; Feb. 21; Sp. p. 3046; Gaz. vol. 163; p. 539.
Cultivator-frame, Adjustable. W. M. Willmore. No. 993,489; May 30; Sp. p. 5706; Gaz. vol. 166; p. 1044.
Cultivator, harrow, and rake, Combined. A. Benton and C. D. Jordan. No. 980,586; Jan. 3; Sp. p. 887; Gaz. vol. 162; p. 143.
Cultivator hoe attachment. F. F. Green. No. 994,151; June 6; Sp. p. 94; Gaz. vol. 167; p. 18.
Cultivator lifting means, Riding-. W. L. Paul. No. 1,010,170; Nov. 28; Sp. p. 5545; Gaz. vol. 172; p. 993.
Cultivator, Lister-. L. E. Waterman. No. 1,000,650; Aug. 15; Sp. p. 3105; Gaz. vol. 169; p. 563.
Cultivator, Rotary. W. I. Hall. No. 983,893; Feb. 14; Sp. p. 1400; Gaz. vol. 163; p. 249.
Cultivator, Rotary. T. S. Eidem. No. 1,008,708; Nov. 14; Sp. p. 2443; Gaz. vol. 172; p. 413.
Cultivator-shovel fastener. C. E. Logan and A. R. Barnett. No. 1,010,159; Nov. 28; Sp. p. 5527; Gaz. vol. 172; p. 989.
Cultivator-shovels, Spring-trip for. J. Langenfeld. No. 1,010,776; Dec. 5; Sp. p. 848; Gaz. vol. 173; p. 132.
Cultivator, Side. A. T. Richard. No. 985,449; Feb. 28; Sp. p. 4766; Gaz. vol. 163; p. 848.
Cultivator, Sled-. L. E. Waterman. No. 991,120; May 2; Sp. p. 622; Gaz. vol. 166; p. 106.
Cultivator, Spring-tooth. A. Brigden. No. 995,318; June 13; Sp. p. 2613; Gaz. vol. 167; p. 453.
Cultivator, Spring-tooth. A. Brigden. No. 995,319; June 13; Sp. p. 2615; Gaz. vol. 167; p. 453.
Cultivator, Spring-tooth. A. Brigden. No. 1,003,029; Sept. 12; Sp. p. 1878; Gaz. vol. 170; p. 324.
Cultivator stalk-cutting attachment, Disk-. A. Diestelmeier and J. H. Wolf. No. 1,005,697; Oct. 10; Sp. p. 2482; Gaz. vol. 171; p. 426.
Cultivator-standard attachment. W. F. Hamilton. No. 1,001,522; Aug. 22; Sp. p. 4946; Gaz. vol. 169; p. 894.
Cultivator, Straddle-row. W. L. Beall. No. 990,624; Apr. 25; Sp. p. 5060; Gaz. vol. 165; p. 882.
Cultivator-sweep. C. Lundghren and G. E. Anderson. No. 984,146; Feb. 14; Sp. p. 1928; Gaz. vol. 163; p. 331.
Cultivator-tooth. G. W. Copeland. No. 989,232; Apr. 11; Sp. p. 1981; Gaz. vol. 165; p. 340.
Cultivator, Walking-. A. W. Roper. No. 993,880; May 30; Sp. p. 6545; Gaz. vol. 166; p. 1179.
Cultivator-wheel. H. Petersen. No. 1,004,191; Sept. 26; Sp. p. 4458; Gaz. vol. 170; p. 789.
Cultivator, Wheeled. J. M. Wright. No. 1,003,570; Sept. 19; Sp. p. 3029; Gaz. vol. 170; p. 546.
Cultivators and plows, Fertilizer-drill attachment to. W. F. Marsh. No. 987,388; Mar. 21; Sp. p. 3445; Gaz. vol. 164; p. 617.
Cultivators, Extension plow attachment for. E. Alders. No. 1,007,764; Nov. 7; Sp. p. 251; Gaz. vol. 172; p. 40.
Cultivators, Spreader-arch for. W. S. Graham. No. 1,000,511; Aug. 15; Sp. p. 2770; Gaz. vol. 169; p. 512.
Culvert. F. Ottney. No. 985,539; Feb. 28; Sp. p. 4971; Gaz. vol. 163; p. 880.
Culvert. A. H. Kaufmann. No. 988,109; Mar. 28; Sp. p. 5029; Gaz. vol. 164; p. 892.
Culvert. G. A. Sagendorph. No. 991,172; May 2; Sp. p. 734; Gaz. vol. 166; p. 124.
Culvert. M. A. Quinn and L. C. Stewart. No. 995,180; June 13; Sp. p. 2359; Gaz. vol. 167; p. 409.
Culvert. G. W. Storms. No. 995,200; June 13; Sp. p. 2388; Gaz. vol. 167; p. 414.
Culvert. C. A. Foster. No. 997,383; July 11; Sp. p. 1650; Gaz. vol. 168; p. 299.
Culvert. F. Olson. No. 1,001,978; Aug. 29; Sp. p. 5956; Gaz. vol. 169; p. 1079.
Culvert. J. P. Dolan. No. 1,002,653; Sept. 5; Sp. p. 1047; Gaz. vol. 170; p. 156.
Culvert. A. Lauritzen. No. 1,003,759; Sept. 19; Sp. p. 3429; Gaz. vol. 170; p. 612.
Culvert. J. Gibson. No. 1,004,866; Oct. 3; Sp. p. 694; Gaz. vol. 171; p. 113.
Culvert. O. E. Deppen. No. 1,010,875; Dec. 5; Sp. p. 1061; Gaz. vol. 173; p. 166.
Culvert. J. B. Jarmin. No. 1,012,859; Dec. 26; Sp. p. 5480; Gaz. vol. 173; p. 970.
Culvert attachment, Road-. G. S. P. Brannen. No. 980,754; Jan. 3; Sp. p. 1227; Gaz. vol. 162; p. 197.
Culvert, Corrugated. F. J. Feldt. No. 989,343; Apr. 11; Sp. p. 2232; Gaz. vol. 165; p. 378.
Culvert, Corrugated. F. J. Feldt. No. 996,708; July 4; Sp. p. 227; Gaz. vol. 168; p. 39.
Culvert, Corrugated. F. J. Feldt. No. 1,001,378; Aug. 22; Sp. p. 4697; Gaz. vol. 169; p. 847.
Culvert, Draining-. J. H. Schlafly. No. 980,442; Jan. 3; Sp. p. 550; Gaz. vol. 162; p. 93.
Culvert, Metal. J. B. Jarmin. No. 983,623; Feb. 7; Sp. p. 788; Gaz. vol. 163; p. 125.
Culvert, Metal. J. A. Sanders. No. 1,005,656; Oct. 10; Sp. p. 2401; Gaz. vol. 171; p. 412.
Culvert, Metal. J. Olsen. No. 1,010,450; Dec. 5; Sp. p. 93; Gaz. vol. 173; p. 18.
Culvert, Metallic. K. J. Thorsby. No. 996,166; June 27; Sp. p. 4495; Gaz. vol. 167; p. 812.
Culvert-mold. N. Marx and J. Ketzner. No. 985,916; Mar. 7; Sp. p. 339; Gaz. vol. 164; p. 54.
Culvert-mold. A. J. Fox. No. 995,529; June 20; Sp. p. 3126; Gaz. vol. 167; p. 556.
Culvert, Sheet-metal. C. A. Foster. No. 985,738; Feb. 28; Sp. p. 5407; Gaz. vol. 163; p. 947.
Culvert structure. C. A. Foster. No. 997,382; July 11; Sp. p. 1649; Gaz. vol. 168; p. 298.
Culverts, &c., Collapsible molding device for. G. W. Riker. No. 994,200; June 6; Sp. p. 207; Gaz. vol. 167; p. 36.
Culverts, Core for making. J. W. Kempf. No. 1,000,818; Aug. 15; Sp. p. 3452; Gaz. vol. 169; p. 622.
Cup: *See* Automatic cup; Dental impression-cup; Dental investment-cup; Drinking-cup; Drip-cup; Folding cup; Grease-cup; Lubricator-cup; Medicinal cup; Oil-cup; Paper cup; Paper drinking-cup; Shaving-cup; Sputum-cup; Suction priming-cup; Teat-cup; Tooth-cup; Turpentine-cup; Turpentine-collecting cup; Vibrating cup.
Cup and apron. G. F. Clark. No. 980,204; Jan. 3; Sp. p. 57; Gaz. vol. 162; p. 12.
Cup holder, Drinking-. J. B. Walker and P. J. Hampton. No. 1,003,831; Sept. 19; Sp. p. 3567; Gaz. vol. 170; p. 634.
Cup holder, Sanitary-. C. L. Ruehs. No. 1,010,320; Nov. 28; Sp. p. 5852; Gaz. vol. 172; p. 1042.
Cup-packer. C. A. Waitz. No. 997,721; July 11; Sp. p. 2354; Gaz. vol. 168; p. 414.
Cups or shells, Machine for trimming. M. F. Cahill. No. 1,008,784; Nov. 14; Sp. p. 2615; Gaz. vol. 172; p. 439.
Curb and gutter finisher, Combined. A. Horrabin. No. 987,879; Mar. 28; Sp. p. 4502; Gaz. vol. 164; p. 813.
Curb and gutter, Metallic. G. W. Hansbrough. No. 993,244; May 23; Sp. p. 5171; Gaz. vol. 166; p. 929.
Curb and gutter mold, Combined. J. D. Wiltfong. No. 995,048; June 13; Sp. p. 2101; Gaz. vol. 167; p. 366.
Curb-bit. M. S. Swartzendruber. No. 988,836; Apr. 4; Sp. p. 1162; Gaz. vol. 165; p. 185.
Curler, Hair-. L. D. Baker. No. 980,737; Jan. 3; Sp. p. 1201; Gaz. vol. 162; p. 192.
Curler, Marcel-wave. A. Kretschan. No. 988,357; Apr. 4; Sp. p. 133; Gaz. vol. 165; p. 24.
Curling-iron. J. P. Wulff. No. 996,821; July 4; Sp. p. 456; Gaz. vol. 168; p. 75.
Curling-iron, Electrical. G. W. Bibbens. No. 991,129; May 2; Sp. p. 639; Gaz. vol. 166; p. 109.
Curling-iron-heating apparatus. F. W. Dohm. No. 980,927; Jan. 10; Sp. p. 1665; Gaz. vol. 162; p. 288.
Currency-drier. F. B. Churchill. No. 994,246; June 6; Sp. p. 300; Gaz. vol. 167; p. 51.
Currency-holder. F. J. Kohlhaas. No. 986,069; Mar. 7; Sp. p. 672; Gaz. vol. 164; p. 107.
Currency-rack. J. E. Moss. No. 981,461; Jan. 10; Sp. p. 2935; Gaz. vol. 162; p. 475.
Currency-washing machine. F. B. Churchill. No. 981,169; Jan. 10; Sp. p. 2265; Gaz. vol. 162; p. 374.
Current-collecting device. R. P. Jackson. No. 995,145; June 13; Sp. p. 2288; Gaz. vol. 167; p. 397.
Current-collector holder. O. M. Shirey. No. 1,006,301; Oct. 17; Sp. p. 3824; Gaz. vol. 171; p. 670.
Current-collector or trolley. W. Arter. No. 997,597; July 11; Sp. p. 2065; Gaz. vol. 168; p. 369.
Current condenser, Counter-. J. F. Grace. No. 1,010,044; Nov. 28; Sp. p. 5305; Gaz. vol. 172; p. 951.

Alphabetical list of inventions—Continued.

Current-conductor. J. Regenstreif. No. 982,873; Jan. 31; Sp. p. 5934; Gaz. vol. 162; p. 1040.
Current controller, Alternating-. D. Larson. No. 1,011,212; Dec. 12; Sp. p. 1823; Gaz. vol. 173; p. 317.
Current controllers, Switchboard construction for alternating-. A. Sundh. No. 1,011,662; Dec. 12; Sp. p. 2872; Gaz. vol. 173; p. 480.
Current-controlling apparatus. W. N. Dickinson, Jr. No. 987,441; Mar. 21; Sp. p. 3552; Gaz. vol. 164; p. 634.
Current-controlling apparatus. A. Sundh. No. 994,345; June 6; Sp. p. 497; Gaz. vol. 167; p. 86.
Current-controlling device. A. J. Cline. No. 991,481; May 9; Sp. p. 1394; Gaz. vol. 166; p. 263.
Current electromechanical controller, Alternating-. A. Sundh. No. 1,011,663; Dec. 12; Sp. p. 2874; Gaz. vol. 173; p. 480.
Current-inducing apparatus. C. O. Bretherick. No. 1,011,313; Dec. 12; Sp. p. 2071; Gaz. vol. 173; p. 354.
Current-limiting device. M. G. Diaz and A. Azarola y Gresillon. No. 1,001,737; Aug. 29; Sp. p. 5417; Gaz. vol. 169; p. 998.
Current-limiting device. D. Broido. No. 1,011,732; Dec. 12; Sp. p. 3006; Gaz. vol. 173; p. 501.
Current-motor. J. H. Martin. No. 982,154; Jan. 17; Sp. p. 4387; Gaz. vol. 162; p. 734.
Current-motor. C. S. Doney. No. 984,266; Feb. 14; Sp. p. 2218; Gaz. vol. 163; p. 375.
Current-motor. L. Guynn. No. 986,919; Mar. 14; Sp. p. 2466; Gaz. vol. 164; p. 426.
Current-motor. C. A. Barron. No. 995,419; June 13; Sp. p. 2877; Gaz. vol. 167; p. 488.
Current-motor. J. E. and E. B. Symons. No. 1,000,351; Aug. 8; Sp. p. 2406; Gaz. vol. 169; p. 423.
Current-motor. C. A. Mason. No. 1,002,417; Sept. 5; Sp. p. 541; Gaz. vol. 170; p. 77.
Current-motor. J. Hestera. No. 1,004,787; Oct. 3; Sp. p. 515; Gaz. vol. 171; p. 85.
Current-motor. W. Napier. No. 1,008,668; Nov. 14; Sp. p. 2358; Gaz. vol. 172; p. 398.
Current-motor. G. C. Sutton. No. 1,012,291; Dec. 19; Sp. p. 4258; Gaz. vol. 173; p. 731.
Current motor, Alternate-. V. A. Fynn. No. 993,359; May 30; Sp. p. 5416; Gaz. vol. 166; p. 1000.
Current motor, Alternating-. B. McCollum. No. 984,582; Feb. 21; Sp. p. 2889; Gaz. vol. 163; p. 515.
Current motor, Alternating-. W. E. Goldsborough. No. 990,647; Apr. 25; Sp. p. 5112; Gaz. vol. 165; p. 890.
Current motor, Alternating-. V. A. Fynn. No. 994,381; June 6; Sp. p. 589; Gaz. vol. 167; p. 101.
Current motor, Alternating-. V. A. Fynn. No. 994,382; June 6; Sp. p. 591; Gaz. vol. 167; p. 101.
Current motor, Alternating-. C. L. Kennedy. No. 1,003,465; Sept. 19; Sp. p. 2786; Gaz. vol. 170; p. 510.
Current motor, Alternating-. A. Kimble. No. 1,004,437; Sept. 26; Sp. p. 4953; Gaz. vol. 170; p. 871.
Current motor, Alternating-. V. A. Fynn. No. 1,010,135; Nov. 28; Sp. p. 5482; Gaz. vol. 172; p. 982.
Current motor and controlling device therefor, Alternating-. V. I. Gray. No. 987,979; Mar. 28; Sp. p. 4760; Gaz. vol. 164; p. 849.
Current-motor, Hinged floating. J. H. Pepper. No. 1,005,746; Oct. 10; Sp. p. 2572; Gaz. vol. 171; p. 442.
Current potential switch, Alternating-. D. Larson. No. 981,930; Jan. 17; Sp. p. 3950; Gaz. vol. 162; p. 660.
Current protector, High-tension-. C. J. Lincoln and E. E. Weil. No. 982,281; Jan. 24; Sp. p. 4676; Gaz. vol. 162; p. 808.
Current rectifier, Electrolytic alternating-. A. S. Hickley. No. 982,494; Jan. 24; Sp. p. 5123; Gaz. vol. 162; p. 884.
Current-registering mechanism, Portable total-. F. Hedley and J. S. Doyle. No. 1,004,648; Oct. 3; Sp. p. 209; Gaz. vol. 171; p. 36.
Current regulator, Constant-. E. R. Cliff. No. 988,312; Apr. 4; Sp. p. 28; Gaz. vol. 165; p. 8.
Current-relaying apparatus. H. Gerdien. No. 1,004,012; Sept. 26; Sp. p. 4007; Gaz. vol. 170; p. 725.
Current switch, Alternating-. A. Simon. No. 1,006,504; Oct. 24; Sp. p. 4296; Gaz. vol. 171; p. 770.
Current system of distribution, regulation, and control, Alternating-. J. Bijur. No. 983,670; Feb. 7; Sp. p. 895; Gaz., vol. 163; p. 142.
Current-tap. R. B. Benjamin. No. 990,418; Apr. 25; Sp. p. 4612; Gaz. vol. 165; p. 811.
Current-tap. R. B. Benjamin. No. 990,419; Apr. 25; Sp. p. 4615; Gaz. vol. 165; p. 812.
Current-tap. R. B. Benjamin. No. 990,420; Apr. 25; Sp. p. 4618; Gaz. vol. 165; p. 812.
Current-tap. H. L. De Zeng. No. 1,010,125; Nov. 28; Sp. p. 5465; Gaz. vol. 172; p. 979.
Current-transformer system, Alternating-. J. S. Peck. No. 1,007,482; Oct. 31; Sp. p. 6424; Gaz. vol. 171; p. 1167.
Currents, Apparatus for producing high-frequency. R. Goldschmidt. No. 999,987; Aug. 8; Sp. p. 1587; Gaz. vol. 169; p. 299.
Currents, Device for producing high-frequency oscillatory. F. Jacoviello. No. 1,004,170; Sept. 26; Sp. p. 4417; Gaz. vol. 170; p. 781.
Currents, Protecting articles from earth-. H. Geppert. No. 989,596; Apr. 18; Sp. p. 2810; Gaz. vol. 165; p. 497.
Currycomb. M. H. Danner. No. 995,443; June 20; Sp. p. 2940; Gaz. vol. 167; p. 525.
Currycomb. E. Webster. No. 995,745; June 20; Sp. p. 3602; Gaz. vol. 167; p. 632.
Currycomb. R. T. Gillenwater. No. 1,008,322; Nov. 14; Sp. p. 1510; Gaz. vol. 172; p. 276.
Currycomb. B. Wilson. No. 1,011,689; Dec. 12; Sp. p. 2918; Gaz. vol. 173; p. 487.
Currycomb. L. R. Witherell. No. 1,012,117; Dec. 19; Sp. p. 3883; Gaz. vol. 173; p. 671.
Currycomb, Self-cleaning. S. I. Morkre. No. 999,836; Aug. 8; Sp. p. 1263; Gaz. vol. 169; p. 247.
Curtain. S. T. Corbitt. No. 1,009,722; Nov. 28; Sp. p. 4636; Gaz. vol. 172; p. 842.
Curtain and drapery fixture. W. G. Tanner. No. 1,011,666; Dec. 12; Sp. p. 2884; Gaz. vol. 173; p. 481.
Curtain and drapery rod support. H. T. Barnwell. No. 1,009,375; Nov. 21; Sp. p. 3922; Gaz. vol. 172; p. 680.
Curtain and shade support. F. Bacigalupi. No. 983,420; Feb. 7; Sp. p. 340; Gaz. vol. 163; p. 57.
Curtain and shade support. L. T. Diebolt. No. 989,951; Apr. 18; Sp. p. 3567; Gaz. vol. 165; p. 618.
Curtain and shade support. P. J. Green. No. 1,002,838; Sept. 12; Sp. p. 1458; Gaz. vol. 170; p. 259.
Curtain and shade support, Combined. F. Wallace. No. 992,088; May 9; Sp. p. 2641; Gaz. vol. 166; p. 470.
Curtain attachment, Train-vestibule-. E. F. Hartshorn. No. 996,332; June 27; Sp. p. 4930; Gaz. vol. 167; p. 868.
Curtain-bracket. U. L. Berger. No. 988,852; Apr. 4; Sp. p. 1187; Gaz. vol. 165; p. 189.
Curtain-bracket. C. Berry. No. 991,936; May 9; Sp. p. 2364; Gaz. vol. 166; p. 420.
Curtain-draping apparatus. M. A. Tompkins. No. 988,912; Apr. 4; Sp. p. 1299; Gaz. vol. 165; p. 209.
Curtain-fastener. C. L. Bair. No. 990,947; May 2; Sp. p. 255; Gaz. vol. 166; p. 45.
Curtain-fastener. J. A. and C. P. Fisher. No. 1,008,633; Nov. 14; Sp. p. 2292; Gaz. vol. 172; p. 387.
Curtain-fixture. C. L. Hopkins. No. 982,002; Jan. 17; Sp. p. 4102; Gaz. vol. 162; p. 684.
Curtain-fixture. W. Deucker. No. 983,692; Feb. 7; Sp. p. 947; Gaz. vol. 163; p. 150.
Curtain-fixture. G. E. Gilman. No. 984,135; Feb. 14; Sp. p. 1911; Gaz. vol. 163; p. 328.
Curtain-fixture. H. H. Forsyth. No. 998,685; July 25; Sp. p. 4544; Gaz. vol. 168; p. 828.
Curtain-fixture. W. Walter. No. 1,009,359; Nov. 21; Sp. p. 3872; Gaz. vol. 172; p. 674.
Curtain-fixture. J. Gabrielson and K. Karlstrom. No. 1,012,348; Dec. 19; Sp. p. 4377; Gaz. vol. 173; p. 749.
Curtain-fixture, Adjustable. E. B. Smith. No. 994,794; June 13; Sp. p. 1518; Gaz. vol. 167; p. 279.
Curtain-fixture, Adjustable. E. B. Smith. No. 1,008,378; Nov. 14; Sp. p. 1660; Gaz. vol. 172; p. 295.
Curtain-guide. F. J. Rupert. No. 1,011,495; Dec. 12; Sp. p. 2462; Gaz. vol. 173; p. 419.
Curtain hanger, Window-. C. A. Knight. No. 982,610; Jan. 24; Sp. p. 5350; Gaz. vol. 162; p. 922.
Curtain-hanging device. I. Kwiatkowski. No. 998,536; July 18; Sp. p. 4196; Gaz. vol. 168; p. 743.
Curtain-hanging fixture, Adjustable. R. C. Davie. No. 1,006,183; Oct. 17; Sp. p. 3555; Gaz. vol. 171; p. 629.
Curtain-holder. P. J. Taaffe. No. 981,139; Jan. 10; Sp. p. 2203; Gaz. vol. 162; p. 363.
Curtain holder, Vestibule-. W. E. Tippett. No. 1,000,131; Aug. 8; Sp. p. 1944; Gaz. vol. 169; p. 350.
Curtain-pole. E. S. Doyle. No. 983,428; Feb. 7; Sp. p. 361; Gaz. vol. 163; p. 60.
Curtain-pole. J. B. McGinley. No. 989,990; Apr. 18; Sp. p. 3652; Gaz. vol. 165; p. 632.
Curtain-pole. G. Kanyasi and F. Lakó. No. 992,508; May 16; Sp. p. 3606; Gaz. vol. 166; p. 648.
Curtain-pole. G. W. Bevill. No. 995,946; June 20; Sp. p. 4039; Gaz. vol. 167; p. 703.
Curtain-pole. M. R. Ward. No. 999,923; Aug. 8; Sp. p. 1463; Gaz. vol. 169; p. 277.
Curtain-pole. E. Harmel. No. 1,002,840; Sept. 12; Sp. p. 1463; Gaz. vol. 170; p. 260.
Curtain-pole. J. Kish. No. 1,010,151; Nov. 28; Sp. p. 5508; Gaz. vol. 172; p. 987.
Curtain-pole and window-shade support. A. Guth. No. 1,012,130; Dec. 19; Sp. p. 3914; Gaz. vol. 173; p. 676.
Curtain-pole fastener. H. E. Robbins. No. 983,769; Feb. 7; Sp. p. 1094; Gaz. vol. 163; p. 176.
Curtain-pole holder. J. and H. Schmitz. No. 999,675; Aug. 1; Sp. p. 945; Gaz. vol. 169; p. 165.
Curtain-pole ring. C. F. Laun. No. 1,001,287; Aug. 22; Sp. p. 4481; Gaz. vol. 169; p. 814.
Curtain-pole ring and clamp, Combined. B. Schneider. No. 996,886; July 4; Sp. p. 593; Gaz. vol. 168; p. 98.
Curtain-ring. W. H. Edsall. No. 980,222; Jan. 3; Sp. p. 91; Gaz. vol. 162; p. 17.
Curtain-ring. C. F. Laun. No. 1,009,075; Nov. 21; Sp. p. 3228; Gaz. vol. 172; p. 572.
Curtain-rod. A. Logsdon. No. 988,200; Mar. 28; Sp. p. 5190; Gaz. vol. 164; p. 921.
Curtain-rod. L. J. Wilbert. No. 990,937; May 2; Sp. p. 232; Gaz. vol. 166; p. 41.
Curtain-rod. C. W. Kirsch. No. 1,003,614; Sept. 19; Sp. p. 3117; Gaz. vol. 170; p. 562.

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Curtain-rod, Extension. C. F. Laun. No. 1,005,239; Oct. 10; Sp. p. 1440; Gaz. vol. 171; p. 263.
Curtain-rod holder. P. R. Sledge, Jr. No. 1,001,467; Aug. 22; Sp. p. 4852; Gaz. vol. 169; p. 875.
Curtain-rod socket. F. L. Lathrop. No. 1,003,966; Sept. 19; Sp. p. 3890; Gaz. vol. 170; p. 683.
Curtain-roller. E. E. Whitmore. No. 1,007,830; Nov. 7; Sp. p. 409; Gaz. vol. 172; p. 64.
Curtain-roller. W. H. Forsyth. No. 1,010,608; Dec. 5; Sp. p. 469; Gaz. vol. 173; p. 73.
Curtain-stretcher. J. T. Donnell, R. and T. B. Shropshire. No. 988,554; Apr. 4; Sp. p. 556; Gaz. vol. 165; p. 90.
Curtain-stretcher. P. O. Holmquist. No. 991,781; May 9; Sp. p. 2033; Gaz. vol. 166; p. 366.
Curtain-stretcher. A. Guth. No. 993,519; May 30; Sp. p. 5771; Gaz. vol. 166; p. 1054.
Curtain-stretcher. J. N. Oveson. No. 1,003,121; Sept. 12; Sp. p. 2068; Gaz. vol. 170; p. 356.
Curtain-stretcher. J. O. Holmquist. No. 1,009,517; Nov. 21; Sp. p. 4231; Gaz. vol. 172; p. 729.
Curtain-stretcher attaching device. J. O. Holmquist. No. 997,820; July 11; Sp. p. 2616; Gaz. vol. 168; p. 449.
Curtain-stretcher, Self-squaring. J. O. Holmquist. No. 992,717; May 16; Sp. p. 4028; Gaz. vol. 166; p. 719.
Curtain-support. W. H. Edsall. No. 996,227; June 27; Sp. p. 4671; Gaz. vol. 167; p. 832.
Curtain supporter, Side-. H. T. and C. T. Sonderup. No. 1,005,665; Oct. 10; Sp. p. 2418; Gaz. vol. 171; p. 416.
Curtains, Adjustable protector for lace. D. N. Swedlund and A. L. Lundahl. No. 1,012,111; Dec. 19; Sp. p. 3872; Gaz. vol. 173; p. 669.
Curtains, Means for normally holding and automatically releasing. R. S. and H. C. Graham. No. 985,995; Mar. 7; Sp. p. 524; Gaz. vol. 164; p. 83.
Curve, Rectifying-. R. A. Mather. No. 992,371; May 16; Sp. p. 3335; Gaz. vol. 166; p. 600.
Curve-scriber. A. Gran and J. H. Karlson. No. 989,547; Apr. 11; Sp. p. 2677; Gaz. vol. 165; p. 449.
Curve-scriber. L. C. F. Ferri. No. 1,004,157; Sept. 26; Sp. p. 4391; Gaz. vol. 170; p. 777.
Cushion: *See* Adjustable cushion; Air-cushion; Bed-pan cushion; Billiard-table cushion; Pneumatic cushion; Printing-press air-cushion.
Cushion-fork. H. E. Pilgrim. No. 989,638; Apr. 18; Sp. p. 2895; Gaz. vol. 165; p. 511.
Cushioned wheel. E. L. J. Davis. No. 980,611; Jan. 3; Sp. p. 935; Gaz. vol. 162; p. 151.
Cushioning device. E. Favary. No. 981,404; Jan. 10; Sp. p. 2826; Gaz. vol. 162; p. 456.
Cushioning device. W. R. Munn. No. 993,394; May 30; Sp. p. 5493; Gaz. vol. 166; p. 1012.
Cushioning device, Pneumatic. I. Cowles and E. H. MacDowell. No. 1,002,822; Sept. 12; Sp. p. 1419; Gaz. vol. 170; p. 253.
Cushioning devices, Hanger for. F. O. Kilgore. No. 994,007; May 30; Sp. p. 6804; Gaz. vol. 166; p. 1222.
Cushioning means, Pneumatic. I. Cowles. No. 1,002,823; Sept. 12; Sp. p. 1422; Gaz. vol. 170; p. 253.
Cuspidor. P. Sagi. No. 981,479; Jan. 10; Sp. p. 2967; Gaz. vol. 162; p. 482.
Cuspidor. J. Pahola. No. 985,054; Feb. 21; Sp. p. 3845; Gaz. vol. 163; p. 679.
Cuspidor. B. F. Freeble. No. 985,520; Feb. 28; Sp. p. 4931; Gaz. vol. 163; p. 873.
Cuspidor. L. Hofer. No. 988,709; Apr. 4; Sp. p. 914; Gaz. vol. 165; p. 144.
Cuspidor. J. Kerekes. No. 990,747; Apr. 25; Sp. p. 5348; Gaz. vol. 165; p. 923.
Cuspidor. A. Bajluk. No. 991,263; May 2; Sp. p. 932; Gaz. vol. 166; p. 157.
Cuspidor. J. W. Lovejoy. No. 993,852; May 30; Sp. p. 6496; Gaz. vol. 166; p. 1170.
Cuspidor. W. C. Wells. No. 994,352; June 6; Sp. p. 515; Gaz. vol. 167; p. 89.
Cuspidor. P. F. Gatto. No. 995,859; June 20; Sp. p. 3872; Gaz. vol. 167; p. 672.
Cuspidor. S. Sibo. No. 997,014; July 4; Sp. p. 905; Gaz. vol. 168; p. 143.
Cuspidor. J. P. Laney. No. 997,140; July 4; Sp. p. 1144; Gaz. vol. 168; p. 185.
Cuspidor. S. J. Ostrowski. No. 997,320; July 11; Sp. p. 1528; Gaz. vol. 168; p. 278.
Cuspidor. A. H. Thomas, Jr. No. 998,933; July 25; Sp. p. 5108; Gaz. vol. 168; p. 916.
Cuspidor. E. M. Fitz. No. 1,002,509; Sept. 5; Sp. p. 733; Gaz. vol. 170; p. 108.
Cuspidor. J. Goslinski. No. 1,005,642; Oct. 10; Sp. p. 2363; Gaz. vol. 171; p. 406.
Cuspidor. P. Polyacsko. No. 1,007,484; Oct. 31; Sp. p. 6433; Gaz. vol. 171; p. 1168.
Cuspidor. M. L. Dalpez. No. 1,010,027; Nov. 28; Sp. p. 5276; Gaz. vol. 172; p. 945.
Cuspidor. M. Tomaszswski. No. 1,010,095; Nov. 28; Sp. p. 5405; Gaz. vol. 172; p. 969.
Cuspidor. G. Rapawy. No. 1,011,847; Dec. 12; Sp. p. 3259; Gaz. vol. 173; p. 541.
Cuspidor and the like. C. S. Crawford. No. 1,008,958; Nov. 14; Sp. p. 2964; Gaz. vol. 172; p. 495.
Cuspidor-holder. M. S. Jacobson. No. 988,714; Apr. 4; Sp. p. 9[illegible] Gaz. vol. 165; p. 146.
Cuspidor-holder, Sanitary. P. H. Noonan. No. 995,479; June 20; Sp. p. 3022; Gaz. vol. 167; p. 538.
Cuspidor-lifter. J. E. Myers. No. 980,821; Jan. 3; Sp. p. 1378; Gaz. vol. 162; p. 220.
Cuspidor-receptacle. J. Carnot. No. 993,958; May 30; Sp. p. 6696; Gaz. vol. 166; p. 1205.
Cuspidor, Sanitary. D. St. Cyr. No. 992,820; May 23; Sp. p. 4257; Gaz. vol. 166; p. 785.
Cuspidor, Sanitary. E. Nickum. No. 1,001,216; Aug. 22; Sp. p. 4344; Gaz. vol. 169; p. 791.
Cuspidor, Sanitary pocket-. S. O'Sullivan. No. 995,709; June 20; Sp. p. 3520; Gaz. vol. 167; p. 620.
Cuspidors, Check-valve for. G. B. Cogley. No. 988,929; Apr. 4; Sp. p. 1333; Gaz. vol. 165; p. 214.
Cut-lever bracket. W. J. Scherer. No. 983,773; Feb. 7; Sp. p. 1102; Gaz. vol. 163; p. 177.
Cut-off, Fluid. W. E. Apt, E. L. Schott, and W. H. Garland. No. 994,050; May 30; Sp. p. 6884; Gaz. vol. 166; p. 1236.
Cut-off, Rain-spout. P. Fath. No. 984,365; Feb. 14; Sp. p. 2405; Gaz. vol. 163; p. 407.
Cut-off, Rain-water. C. Smyth and J. R. Buck. No. 983,944; Feb. 14; Sp. p. 1502; Gaz. vol. 163; p. 265.
Cut-off, Variable. R. Eaton. No. 983,222; Jan. 31; Sp. p. 6647; Gaz. vol. 162; p. 1156.
Cut-off, Water. M. J. Stephenson. No. 992,614; May 16; Sp. p. 3841; Gaz. vol. 166; p. 684.
Cut-out. H. W. Doughty and C. E. Beach. No. 1,005,521; Oct. 10; Sp. p. 2068; Gaz. vol. 171; p. 363.
Cut-out, Automatic. G. W. Cravens. No. 1,009,956; Nov. 28; Sp. p. 5108; Gaz. vol. 172; p. 921.
Cut-out, Electrically-operated automatic. P. A. Brown. No. 982,346; Jan. 24; Sp. p. 4800; Gaz. vol. 162; p. 831.
Cut-out, Meter-testing. T. E. Murray. No. 995,627; June 20; Sp. p. 3352; Gaz. vol. 167; p. 591.
Cut-out, Meter-testing service. T. E. Murray. No. 991,004; May 2; Sp. p. 374; Gaz. vol. 166; p. 64.
Cuts or blocks, Apparatus for reducing the thickness of. G. F. Arburg. No. 991,468; May 9; Sp. p. 1372; Gaz. vol. 166; p. 259.
Cutlery-handle. J. W. Maconochie. No. 983,736; Feb. 7; Sp. p. 1025; Gaz. vol. 163; p. 164.
Cutlery, Trick-. H. Reinfeld. No. 992,251; May 16; Sp. p. 3054; Gaz. vol. 166; p. 558.
Cutter: *See* Band-cutter; Boiler-tube cutter; Bread-cutter; Brush-cutter; Butter-cutter; Can-cutter; Cheese-cutter; Cigar-cutter; Cigar-tip cutter; Corn-cutter; Cotton-stalk cutter; Ensilage-cutter; Excavator-cutter; Fiber-needle cutter; Fillet-cutter; Flue-cutter; Fodder-cutter; Gain-cutter; Gear-cutter; Glass-cutter; Glass-tube cutter; Hair-cutter; Helical cutter; Hinge-seat cutter; Hob-cutter; Hoe and weed-cutter; Ice-cutter; Insole-cutter; Insole-duck cutter; Insulation-cutter; Meat-cutter; Meat and vegetable cutter; Milling-cutter; Paper-cutter; Photographic-print cutter; Pipe-cutter; Potato-cutter; Printer's lead and rule cutter; Railway-track weed-cutter; Ribbon-cutter; Rock-cutter; Sheet-cutter; Skull-cutter; Sod-cutter; Sod and potato-vine cutter; Stalk-cutter; Thread-cutter; Tobacco-plug cutter; Tree and brush cutter; Twine-cutter; Vegetable-cutter; Vine-cutter; Weed-cutter; Well-casing cutter; Welt-shank cutter; Zwieback-cutter.
Cutter. E. C. Rinner. No. 996,795; July 4; Sp. p. 389; Gaz. vol. 168; p. 66.
Cutter and trimmer. W. L. Webster. No. 1,009,203; Nov. 21; Sp. p. 3494; Gaz. vol. 172; p. 616.
Cutter-bar. H. Smith and R. Whitfield. No. 985,948; Mar. 7; Sp. p. 410; Gaz. vol. 164; p. 65.
Cutter-bar for mowing-machines, &c. J. H. Poole. No. 994,478; June 6; Sp. p. 770; Gaz. vol. 167; p. 131.
Cutter-guard. E. Andre. No. 994,898; June 13; Sp. p. 1786; Gaz. vol. 167; p. 314.
Cutter-head. S. Wakefield. No. 983,330; Feb. 7; Sp. p. 161; Gaz. vol. 163; p. 28.
Cutter-head. J. R. Thomas. No. 988,227; Mar. 28; Sp. p. 5244; Gaz. vol. 164; p. 930.
Cutter-head. J. D. Lammel. No. 1,000,526; Aug. 15; Sp. p. 2802; Gaz. vol. 169; p. 517.
Cutter-head. E. S. Shimer. No. 1,000,850; Aug. 15; Sp. p. 3519; Gaz. vol. 169; p. 633.
Cutter-head. F. Stutzman. No. 1,009,352; Nov. 21; Sp. p. 3858; Gaz. vol. 172; p. 671.
Cutter-head, Expansion. R. J. Tully. No. 981,502; Jan. 10; Sp. p. 3004; Gaz. vol. 162; p. 489.
Cutter-head, Expansion. H. J. Mitchell. No. 987,479; Mar. 21; Sp. p. 3636; Gaz. vol. 164; p. 647.
Cutter-head for edgers. W. G. Zimmerman. No. 996,034; June 20; Sp. p. 4215; Gaz. vol. 167; p. 732.
Cutter-head-securing device. H. B. Ross. No. 1,004,203; Sept. 26; Sp. p. 4480; Gaz. vol. 170; p. 793.
Cutter-heads, Device for spirally twisting blades for. C. D. March. No. 1,004,801; Oct. 3; Sp. p. 547; Gaz. vol. 171; p. 90.
Cutter-shaping machine. F. H. Pierpont. No. 989,636; Apr. 18; Sp. p. 2885; Gaz. vol. 165; p. 510.
Cutting and cauterizing device. S. J. Phillips. No. 988,140; Mar. 28; Sp. p. 5080; Gaz. vol. 164; p. 901.
Cutting and folding machine. H. M. Barber. No. 992,473; May 16; Sp. p. 3539; Gaz. vol. 166; p. 635.
Cutting and forming implement, Adjustable. N. Kiesel. No. 984,678; Feb. 21; Sp. p. 3096; Gaz. vol. 163; p. 548.

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Cutting and stamping die. M. Falk. No. 999,303; Aug. 1; Sp. p. 210; Gaz. vol. 169; p. 40.
Cutting apparatus. C. W. Carson. No. 984,349; Feb. 14; Sp. p. 2377; Gaz. vol. 163; p. 402.
Cutting apparatus, Adjustable. C. S. Lemon. No. 993,607; May 30; Sp. p. 5959; Gaz. vol. 166; p. 1085.
Cutting-board attachment. L. B. Nichelson. No. 982,085; Jan. 17; Sp. p. 4270; Gaz. vol. 162; p. 711.
Cutting device, Rotary. O Paquin. No. 1,006,783; Oct. 24; Sp. p. 4890; Gaz. vol. 171; p. 868.
Cutting-die. A. Dewes. No. 990,426; Apr. 25; Sp. p. 4635; Gaz. vol. 165; p. 815.
Cutting implement. S. P. Kurzman. No. 1,002,710; Sept. 5; Sp. p. 1166; Gaz. vol. 170; p. 176.
Cutting-machine. T. G. Paddack. No. 981,302; Jan. 10; Sp. p. 2589; Gaz. vol. 162; p. 421.
Cutting-machine. L. Hirschfeld. No. 981,425; Jan. 10; Sp. p. 2874; Gaz. vol. 162; p. 463.
Cutting-machine. G. M. Klepfer. No. 993,077; May 23; Sp. p. 4824; Gaz. vol. 166; p. 876.
Cutting-machine. O. W. Trumbull. No. 999,918; Aug. 8; Sp. p. 1454; Gaz. vol. 169; p. 276.
Cutting-machine. C. Shaw. No. 1,000,301; Aug. 8; Sp. p. 2298; Gaz. vol. 169; p. 407.
Cutting-machine. I. Beissel. No. 1,000,959; Aug. 15; Sp. p. 3751; Gaz. vol. 169; p. 670.
Cutting-machine. G. F. Moore. No. 1,002,599; Sept. 5; Sp. p. 938; Gaz. vol. 170; p. 139.
Cutting-machine. F. Meyer. No. 1,007,721; Nov. 7; Sp. p. 151; Gaz. vol. 172; p. 25.
Cutting-machine, Friction. H. A. Fergusson. No. 1,004,539; Sept. 26; Sp. p. 5149; Gaz. vol. 170; p. 906.
Cutting mechanism. A. J. Seger, A. and J. Lowe. No. 992,691; May 16; Sp. p. 3980; Gaz. vol. 166; p. 710.
Cutting mechanism. W. A. Courtland. No. 999,154; July 25; Sp. p. 5568; Gaz. vol. 168; p. 990.
Cutting-off machine. E. H. J. Lorenz. No. 1,006,574; Oct. 24; Sp. p. 4467; Gaz. vol. 171; p. 797.
Cutting polygonal holes, Machine for. A. H. Marsh. No. 1,007,127; Oct. 31; Sp. p. 5679; Gaz. vol. 171; p. 1041.
Cutting-tool. J. A. and E. Adell. No. 987,786; Mar. 28; Sp. p. 4279; Gaz. vol. 164; p. 780.
Cutting-tool. W. N. Selig. No. 990,786; Apr. 25; Sp. p. 5442; Gaz. vol. 165; p. 937.
Cutting-tool. W. N. Selig. No. 990,787; Apr. 25; Sp. p. 5444; Gaz. vol. 165; p. 937.
Cutting-tool. B. Goodman. No. 991,295; May 2; Sp. p. 1006; Gaz. vol. 166; p. 169.
Cutting-tool. G. E. Riblet. No. 1,003,066; Sept. 12; Sp. p. 1942; Gaz. vol. 170; p. 336.
Cutting-tool, Electromagnetic. L. T. Bonsall. No. 998,564; July 18; Sp. p. 4256; Gaz. vol. 168; p. 753.
Cyanamid, Making. F. S. Washburn. No. 1,004,509; Sept. 26; Sp. p. 5088; Gaz. vol. 170; p. 896.
Cycle. A. D. Robbins. No. 985,370; Feb. 28; Sp. p. 4572; Gaz. vol. 163; p. 820.
Cycle and motor of atmospheric type, Explosion. J. A. Babin. No. 1,005,680; Oct. 10; Sp. p. 2445; Gaz. vol. 171; p. 420.
Cycle attachment, Motor-. C. L. Stickelbaut. No. 993,567; May 30; Sp. p. 5878; Gaz. vol. 166; p. 1071.
Cycle attachment, Motor-. E. Brazil. No. 994,715; June 13; Sp. p. 1334; Gaz. vol. 167; p. 251.
Cycle attachment, Motor-. R. C. Blackman. No. 1,004,975; Oct. 3; Sp. p. 905; Gaz. vol. 171; p. 149.
Cycle engine, Three-port two-. C. B. Page. No. 994,653; June 6; Sp. p. 1159; Gaz. vol. 167; p. 190.
Cycle exhaust-whistles, Means for operating. J. H. Rapp. No. 1,003,152; Sept. 12; Sp. p. 2122; Gaz. vol. 170; p. 366.
Cycle for stage purposes. A. D. Robbins. No. 985,369; Feb. 28; Sp. p. 4570; Gaz. vol. 163; p. 819.
Cycle frame, Motor-. E. Muller. No. 984,018; Feb. 14; Sp. p. 1674; Gaz. vol. 163; p. 289.
Cycle frame, Motor-. A. A. Horton. No. 1,010,142; Nov. 28; Sp. p. 5494; Gaz. vol. 172; p. 984.
Cycle, Ice motor-. F. Knecht. No. 1,010,389; Nov. 28; Sp. p. 6007; Gaz. vol. 172; p. 1065.
Cycle-lock. F. Groléas. No. 1,000,800; Aug. 15; Sp. p. 3425; Gaz. vol. 169; p. 616.
Cycle, Motor-. A. Swanson. No. 1,006,804; Oct. 24; Sp. p. 4950; Gaz. vol. 171; p. 877.
Cycle, Motor-. A. Levedahl. No. 1,012,873; Dec. 26; Sp. p. 5523; Gaz. vol. 173; p. 974.
Cycle-pedal variable-crank device. J. H. Fletcher. No. 1,007,082; Oct. 31; Sp. p. 5572; Gaz. vol. 171; p. 1024.
Cycle saddle-bag. F. J. Dyson and A. H. Daniels. No. 1,003,346; Sept. 12; Sp. p. 2543; Gaz. vol. 170; p. 437.
Cycle saddle-support, Motor-. O. L. Adams. No. 1,003,311; Sept. 12; Sp. p. 2469; Gaz. vol. 170; p. 425.
Cycle stand, Motor-. S. T. Weber. No. 998,219; July 18; Sp. p. 3503; Gaz. vol. 168; p. 631.
Cycle-stands, Release for. J. H. Rapp. No. 995,986; June 20; Sp. p. 4112; Gaz. vol. 167; p. 715.
Cycle tandem attachment, Motor-. W. F. Bracher. No. 1,000,771; Aug. 15; Sp. p. 3371; Gaz. vol. 169; p. 605.
Cycle, Water-. C. O. Cracroft. No. 1,000,076; Aug. 8; Sp. p. 1798; Gaz. vol. 169; p. 330.
Cycles and other vehicles, Spring-fork for. A. W. Wall. No. 984,787; Feb. 21; Sp. p. 3344; Gaz. vol. 163; p. 590.
Cycles and the like, Braking mechanism for. R. Walker. No. 1,000,354; Aug. 8; Sp. p. 2414; Gaz. vol. 169; p. 424.
Cycles and the like, Driving and braking mechanism for. R. Walker. No. 1,000,353; Aug. 8; Sp. p. 2411; Gaz. vol. 169; p. 424.
Cycles and the like, Prop for motor-. J. E. Lowe. No. 998,703; July 25; Sp. p. 4577; Gaz. vol. 168; p. 834.
Cycles, bicycles, &c., Back-rest for motor-. W. Doering. No. 998,330; July 18; Sp. p. 3786; Gaz. vol. 168; p. 673.
Cycles, Canopy attachment for motor-. H. Jolley. No. 988,349; Apr. 4; Sp. p. 122; Gaz. vol. 165; p. 22.
Cycles, Chain-adjustment device for. C. G. McKellar. No. 1,001,972; Aug. 29; Sp. p. 5946; Gaz. vol. 169; p. 1077.
Cycles, Chain-adjustment device for rear-wheel fittings of. C. G. McKellar. No. 1,001,971; Aug. 29; Sp. p. 5945; Gaz. vol. 169; p. 1077.
Cycles, &c., Coaster-hub for. S. Cooper. No. 993,760; May 30; Sp. p. 6312; Gaz. vol. 166; p. 1139.
Cycles, motocycles, &c., Variable-speed pedal-gear for. M. Tilhet. No. 993,738; May 30; Sp. p. 6269; Gaz. vol. 166; p. 1131.
Cycles, Power-transmission mechanism for motor-. V. I. Moncrieff. No. 998,298; July 18; Sp. p. 3713; Gaz. vol. 168; p. 662.
Cycles, Spring-frame for motor and other. C. E. Holaway. No. 1,003,908; Sept. 19; Sp. p. 3713; Gaz. vol. 170; p. 661.
Cycles, Supplemental seat for motor-. F. A. Fowler and G. W. Prather. No. 1,013,007; Dec. 26; Sp. p. 5828; Gaz. vol. 173; p. 1019.
Cycles, Supporting-stand for the rear wheels of motor-. B. U. Potter. No. 1,006,125; Oct. 17; Sp. p. 3414; Gaz. vol. 171; p. 606.
Cyclometer. A. F. Madden. No. 1,010,654; Dec. 5; Sp. p. 559; Gaz. vol. 173; p. 89.
Cylinder-drier. E. Passburg. No. 988,022; Mar. 28; Sp. p. 4850; Gaz. vol. 164; p. 863.
Cylinder front end. G. S. Power. No. 1,009,787; Nov. 28; Sp. p. 4775; Gaz. vol. 172; p. 865.
Cylinder-grinding machine. E. and W. Stone. No. 993,901; May 30; Sp. p. 6579; Gaz. vol. 166; p. 1185.
Cylinder-head. H. W. Jacobs. No. 1,002,849; Sept. 12; Sp. p. 1482; Gaz. vol. 170; p. 263.
Cylinder-liner. J. W. Moore. No. 982,739; Jan. 24; Sp. p. 5616; Gaz. vol. 162; p. 964.
Cylinder-lock, Adjustable. H. G. Voight. No. 997,429; July 11; Sp. p. 1732; Gaz. vol. 168; p. 314.
Cylinder-lock, Adjustable. H. C. Voight. No. 1,011,286; Dec. 12; Sp. p. 2007; Gaz. vol. 173; p. 345.
Cylindrical drier, Vertical. E. P. Towles. No. 1,000,211; Aug. 8; Sp. p. 2120; Gaz. vol. 169; p. 377.
Dairy-can. C. Madsen and A. A. Kollmorgen. No. 986,074; Mar. 7; Sp. p. 681; Gaz. vol. 164; p. 109.
Dairy machinery. T. Umrath. No. 1,010,328; Nov. 28; Sp. p. 5868; Gaz. vol. 172; p. 1045.
Dam. F. E. Roff. No. 985,841; Mar. 7; Sp. p. 176; Gaz. vol. 164; p. 29.
Dam. R. C. Beardsley. No. 1,002,817; Sept. 12; Sp. p. 1403; Gaz. vol. 170; p. 251.
Dam. J. C. Wheelon. No. 1,008,760; Nov. 14; Sp. p. 2551; Gaz. vol. 172; p. 430.
Dam. J. F. Greathead. No. 1,010,254; Nov. 28; Sp. p. 5708; Gaz. vol. 172; p. 1020.
Dam. F. S. Tainter. No. 1,012,750; Dec. 26; Sp. p. 5204; Gaz. vol. 173; p. 932.
Dam construction. L. Jorgensen. No. 986,718; Mar. 14; Sp. p. 2036; Gaz. vol. 164; p. 357.
Dam construction. G. J. Bancroft. No. 994,666; June 6; Sp. p. 1197; Gaz. vol. 167; p. 195.
Dam construction. W. S. Edge. No. 1,010,131; Nov. 28; Sp. p. 5474; Gaz. vol. 172; p. 981.
Dam construction. C. F. Doebler. No. 1,010,602; Dec. 5; Sp. p. 459; Gaz. vol. 173; p. 71.
Dam construction. C. F. Doebler. No. 1,010,735; Dec. 5; Sp. p. 752; Gaz. vol. 173; p. 118.
Dam construction. C. F. Doebler. No. 1,010,736; Dec. 5; Sp. p. 754; Gaz. vol. 173; p. 118.
Dam for collecting-basins, Filterlike. W. Todt. No. 998,813; July 25; Sp. p. 4836; Gaz. vol. 168; p. 873.
Dam holder, Antiseptic rubber-. C. A. Hallett. No. 1,012,543; Dec. 19; Sp. p. 4746; Gaz. vol. 173; p. 815.
Dam-mold. T. J. Kelly. No. 1,000,816; Aug. 15; Sp. p. 3449; Gaz. vol. 169; p. 621.
Dam, Portable. E. A. Ernst. No. 981,849; Jan. 17; Sp. p. 3728; Gaz. vol. 162; p. 631.
Dams, Means for draining hydraulic-fill. N. L. Hall. No. 1,011,427; Dec. 12; Sp. p. 2299; Gaz. vol. 173; p. 393.
Dams, Movable crest for. G. F. Stickney. No. 989,079; Apr. 11; Sp. p. 1664; Gaz. vol. 165; p. 289.
Dampener, Seam-. D. P. Moore. No. 1,005,735; Oct. 10; Sp. p. 2551; Gaz. vol. 171; p. 439.
Dampening the seams of folded collars, Machine for. L. R. Heim. No. 983,051; Jan. 31; Sp. p. 6330; Gaz. vol. 162; p. 1100.
Damper. G. W. Fogelsong. No. 986,971; Mar. 14; Sp. p. 2557; Gaz. vol. 164; p. 442.
Damper. L. Sliger. No. 1,000,304; Aug. 8; Sp. p. 2301; Gaz. vol. 169; p. 408.
Damper. L. Ogan. No. 1,010,790; Dec. 5; Sp. p. 875; Gaz. vol. 173; p. 137.

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Damper and mounting, Pipe-. W. H. Miller. No. 1,012,266; Dec. 19; Sp. p. 4202; Gaz. vol. 173; p. 721.
Damper, Automatic. J. E. Dalton. No. 1,003,587; Sept. 19; Sp. p. 3059; Gaz. vol. 170; p. 552.
Damper, Automatic stove-. W. R. Larson. No. 992,011; May 9; Sp. p. 2498; Gaz. vol. 166; p. 444.
Damper controlling and operating mechanism. O. K. Landis. No. 1,006,487; Oct. 24; Sp. p. 4255; Gaz. vol. 171; p. 764.
Damper-controlling apparatus, Thermostatic. B. C. Wickes. No. 982,331; Jan. 24; Sp. p. 4772; Gaz. vol. 162; p. 826.
Damper-controlling mechanism, Automatic. W. Houser. No. 997,555; July 11; Sp. p. 1982; Gaz. vol. 168; p. 354.
Damper, Draft-regulating. W. B. Fowler. No. 984,550; Feb. 21; Sp. p. 2830; Gaz. vol. 163; p. 504.
Damper, Fireplace-. W. E. Fitch. No. 1,011,598; Dec. 12; Sp. p. 2727; Gaz. vol. 173; p. 457.
Damper for heating and ventilating systems. J. E. McGinness. No. 1,009,769; Nov. 28; Sp. p. 4739; Gaz. vol. 172; p. 858.
Damper for locomotive-superheaters. S. Hoffmann. No. 1,011,197; Dec. 12; Sp. p. 1791; Gaz. vol. 173; p. 312.
Damper for stovepipes, furnaces, smoke-stacks, chimneys, &c. C. Bergler. No. 987,946; Mar. 28; Sp. p. 4677; Gaz. vol. 164; p. 837.
Damper-operating mechanism, Pneumatic. L. B. Doman. No. 1,000,381; Aug. 15; Sp. p. 2492; Gaz. vol. 169; p. 466.
Damper, Pipe-. W. Kennedy. No. 993,381; May 30; Sp. p. 5472; Gaz. vol. 166; p. 1007.
Damper-regulator. J. Horn. No. 980,783; Jan. 3; Sp. p. 1296; Gaz. vol. 162; p. 208.
Damper-regulator. E. J. Deegan. No. 989,128; Apr. 11; Sp. p. 1751; Gaz. vol. 165; p. 305.
Damper-regulator. R. J. Davis. No. 990,236; Apr. 25; Sp. p. 4171; Gaz. vol. 165; p. 746.
Damper-regulator. R. J. Davis. No. 990,237; Apr. 25; Sp. p. 4183; Gaz. vol. 165; p. 746.
Damper-regulator, Automatic. W. J. Turner. No. 986,658; Mar. 14; Sp. p. 1921; Gaz. vol. 164; p. 338.
Damper-regulator, Thermostat. R. E. Dewey. No. 1,011,328; Dec. 12; Sp. p. 2112; Gaz. vol. 173; p. 360.
Damper-regulators, Expansible mechanism for. E. J. Deegan. No. 1,000,379; Aug. 15; Sp. p. 2489; Gaz. vol. 169; p. 465.
Damper, Stove-. P. K. Sweet. No. 1,001,478; Aug. 22; Sp. p. 4869; Gaz. vol. 169; p. 879.
Dark room and camera, Portable. J. B. Willyerd. No. 988,421; Apr. 4; Sp. p. 282; Gaz. vol. 165; p. 46.
Darning device. I. P. Nichols. No. 1,009,255; Nov. 21; Sp. p. 3642; Gaz. vol. 172; p. 635.
Darning, Holder for. D. L. Anthony. No. 1,011,007; Dec. 5; Sp. p. 1330; Gaz. vol. 173; p. 212.
Darning-machine. J. Barnes. No. 1,010,112; Nov. 28; Sp. p. 5438; Gaz. vol. 172; p. 975.
Darning, Stocking-holder for use in. A. F. Collins. No. 997,544; July 11; Sp p. 1957; Gaz. vol. 168; p. 350.
Dash-brace. R. L. Notman. No. 981,936; Jan. 17; Sp. p. 3961; Gaz. vol. 162; p. 661.
Dash-pot buffer device, Fluid-. F. C. Furlow. No. 986,378; Mar. 7; Sp. p. 1306; Gaz. vol. 164; p. 211.
Davenport. J. Luppino. No. 984,684; Feb. 21; Sp. p. 3107; Gaz. vol. 163; p. 551.
Davenport. C. K. Goldstein. No. 1,004,645; Oct. 3; Sp. p 206; Gaz. vol. 171; p. 36.
Davenport, Automatic. A. Fuchs. No. 998,890; July 25; Sp. p. 5021; Gaz. vol. 168; p. 901.
Davenport, Folding. G. W. Henry. No. 996,243; June 27; Sp. p. 4707; Gaz. vol. 167; p. 837.
Davit. S. Moe. No. 997,689; July 11; Sp. p. 2272; Gaz. vol. 168; p. 402.
Davit. W. L. Chapman. No. 1,002,032; Aug. 29; Sp. p. 6065; Gaz. vol. 169; p. 1097.
Davit, Boat-. H. F. Norton. No. 1,011,477; Dec. 12; Sp. p. 2417; Gaz. vol. 173; p. 413.
Davit-hook. D. A. Prendergast. No. 1,005,872; Oct. 17; Sp. p. 2855; Gaz. vol. 171; p. 519.
Decanter, Continuous. L. von Tresckow. No. 990,022; Apr. 18; Sp. p. 3706; Gaz. vol. 165; p. 642.
Decanting apparatus. M. R. Lamb. No. 1,007,954; Nov. 7; Sp. p. 692; Gaz. vol. 172; p. 107.
Deckle-strap. J. S. Patterson. No. 989,796; Apr. 18; Sp. p. 3235; Gaz. vol. 165; p. 565.
Decoctions, Apparatus for making. E. A. Sawyer. No. 1,000,693; Aug. 15; Sp. p. 3196; Gaz. vol. 169; p. 578.
Decorated article. C. Franz. No. 1,001,013; Aug. 22; Sp. p. 3931; Gaz. vol. 169; p. 723.
Decorating means for imitating beamed ceilings. A. H. Pitney. No. 985,367; Feb. 28; Sp. p. 4567; Gaz. vol. 163; p. 819.
Decoration, Artificial. J. Schack. No. 992,068; May 9; Sp. p. 2606; Gaz. vol. 166; p. 463.
Decorative leaf. J. A. C. Fichtmueller. No. 984,805; Feb. 21; Sp. p. 3372; Gaz. vol. 163; p. 595.
Decorticating and breaking up the fibers of ramie, caraguata, sansevieria, &c., Machine for. L. E. Conore. No. 1,001,357; Aug. 22; Sp. p. 4651; Gaz. vol. 169; p. 840.
Decorticating-machine. G. Nordenholt. No. 983,755; Feb. 7; Sp. p. 1067; Gaz. vol. 163; p. 171.
Decorticating-machine. J. Brolin. No. 987,342; Mar. 21; Sp. p. 3346; Gaz. vol. 164; p. 601.
Decorticating-machine. S. Gomez and E. Saez. No. 992,418; May 16; Sp. p. 3426; Gaz. vol. 166; p. 617.
Decorticating-machine. M. Prieto. No. 998,549; July 18; Sp. p. 4219; Gaz. vol. 168; p. 747.
Decorticating-machine. M. Prieto. No. 1,002,751; Sept. 5; Sp. p. 1273; Gaz. vol. 170; p. 191.
Decorticating the fibrous leaves or stems of plants, Machine for. E. Wright. No. 1,002,107; Aug. 29; Sp. p. 6195; Gaz. vol. 169; p. 1120.
Defecating and evaporating apparatus. F. P. Watrous. No 1,006,321; Oct. 17; Sp. p. 3869; Gaz. vol. 171; p. 676.
Deflating-tool. E. F. and H. Pawsat. No. 984,239; Feb. 14; Sp. p. 2149; Gaz. vol. 163; p. 365.
Deflectometer. W. Fentzloff. No. 997,980; July 18; Sp. p. 2974; Gaz. vol. 168; p. 546.
Deflocculation and product thereof. E. G. Acheson. No. 986,793; Mar. 14; Sp. p. 2197; Gaz. vol. 164; p. 382.
Dehorning calves, Apparatus for. G. A. Windus. No. 980,725; Jan. 3; Sp. p. 1181; Gaz. vol. 162; p. 188.
Dehydrating apparatus. F. T. Stare. No. 986,602; Mar. 14; Sp. p. 1797; Gaz. vol. 164; p. 319.
Dehydrating apparatus. W. S. Osborne. No. 1,007,382; Oct. 31; Sp. p. 6222; Gaz. vol. 171; p. 1133.
Delinting apparatus. H. E. Hawk. No. 1,006,939; Oct. 24; Sp. p. 5253; Gaz. vol. 171; p. 924.
Delinting-machine. H. M. Hammer. No. 1,008,714; Nov. 14; Sp. p. 2451; Gaz. vol. 172; p. 414.
Delivery apparatus. I. W. Cummings. No. 998,875; July 25; Sp. p. 4990; Gaz. vol. 168; p. 896.
Delivery apparatus, Coin-controlled. H. M. Beach. No. 1,011,105; Dec. 5; Sp. p. 1548; Gaz. vol. 173; p. 245.
Delivery apparatus, Counting attachment for. C. H. Lee. No. 987,727; Mar. 28; Sp. p. 4163; Gaz. vol. 164; p. 761.
Delivery machine, Automatic-. M. Sielaff. No. 1,010,966; Dec. 5; Sp. p. 1249; Gaz. vol. 173; p. 198.
Delivery mechanism. W. Scott. No. 996,528; June 27; Sp. p. 5334; Gaz. vol. 167; p. 934.
Dental apparatus. P. A. Kanouse. No. 980,422; Jan. 3; Sp. p. 506; Gaz. vol. 162; p. 86.
Dental apparatus. T. E. Bridger. No. 982,931; Jan. 31; Sp. p. 6051; Gaz. vol. 162; p. 1059.
Dental apparatus. C. F. Garretson. No. 996,075; June 27; Sp. p. 4310; Gaz. vol. 167; p. 782.
Dental appliance. R. C. Kestler. No 999,373; Aug. 1; Sp. p. 363; Gaz. vol. 169; p. 64.
Dental appliance. C. W. Davison. No. 1,001,362; Aug. 22; Sp. p. 4668; Gaz. vol. 169; p. 842.
Dental appliance. G. J. Nations. No. 1,009,551; Nov. 21; Sp. p. 4299; Gaz. vol. 172; p. 740.
Dental articulator. P. A. Kennedy. No. 981,430; Jan. 10; Sp. p. 2883; Gaz. vol. 162; p. 465.
Dental articulator. E. Sweet. No. 989,540; Apr. 11; Sp. p. 2660; Gaz. vol. 165; p. 447.
Dental bridges and the like, Forming. T. C. Hutchinson. No. 992,199; May 16; Sp. p. 2897; Gaz. vol. 166; p. 539.
Dental broach-holder. E. L. Chott. No. 983,538; Feb. 7; Sp. p. 598; Gaz. vol. 163; p. 96.
Dental cabinet attachment. W. B. Miller. No. 1,007,590; Oct. 31; Sp. p. 6681; Gaz. vol. 171; p. 1203.
Dental cap-crown slitter. J. W. Ivory. No. 1,010,145; Nov. 28; Sp. p. 5501; Gaz. vol. 172; p. 985.
Dental casting-machine. F. W. Wright and E. J. Pilblad. No. 985,489; Feb. 28; Sp. p. 4861; Gaz. vol. 163; p. 863.
Dental chair. L. Smith. No. 983,780; Feb. 7; Sp. p. 1117; Gaz. vol. 163; p. 179.
Dental cleaning device. G. B. Hakins. No. 981,638; Jan. 17; Sp. p. 3283; Gaz. vol. 162; p. 557.
Dental crowns, Device for the manufacture of. J. M. Gilmore. No. 999,366; Aug. 1; Sp. p. 345; Gaz. vol. 169; p. 61.
Dental engine. O. H. and A. F. Pieper. No. 1,011,239; Dec. 12; Sp. p. 1890; Gaz. vol. 173; p. 326.
Dental-engine handpiece. F. W. Dean. No. 984,419; Feb. 14; Sp. p. 2506; Gaz. vol. 163; p. 424.
Dental-engine handpiece. W. T. Lyon. No. 987,732; Mar. 28; Sp. p. 4176; Gaz. vol. 164; p. 762.
Dental engines, Air and water attachment for. R. E. Cunningham and A. C. Smith. No. 1,000,785; Aug. 15; Sp. p. 3396; Gaz. vol. 169; p. 610.
Dental engines, Fan attachment for. J. S. Frisbie. No. 980,238; Jan. 3; Sp. p. 115; Gaz. vol. 162; p. 23.
Dental filling material. A. G. Meier. No. 1,008,845; Nov. 14; Sp. p. 2730; Gaz. vol. 172; p. 459.
Dental fillings, Apparatus for casting. F. N. Wetherby. No. 994,225; June 6; Sp. p. 257; Gaz. vol. 167; p. 44.
Dental foil and making same, Composite. J. J. Kessler. No. 1,008,970; Nov. 14; Sp. p. 2992; Gaz. vol. 172; p. 499.
Dental forceps. J. B. Hull. No. 991,313; May 2; Sp. p. 1052; Gaz. vol. 166; p. 176.
Dental gold-cap-crown remover. I. B. Kenney. No. 989,267; Apr. 11; Sp. p. 2065; Gaz. vol. 165; p. 352.
Dental grinding-tools, Guard for. B. M. Fell. No. 994,829; June 13; Sp. p. 1617; Gaz. vol. 167; p. 291.
Dental handpiece. T. T. Alkin. No. 1,001,916; Aug. 29; Sp. p. 5823; Gaz. vol. 169; p. 1059.
Dental heater, Electric. W. and D. Asch. No. 1,009,008; Nov. 14; Sp. p. 3080; Gaz. vol. 172; p. 512.

Alphabetical list of inventions—Continued.

Dental impression-cup. I. A. Burnett. No. 984,796; Feb. 21; Sp. p. 3356; Gaz. vol. 163; p. 592.
Dental impression-tray. W. M. Gantz. No. 980,411; Jan. 3; Sp. p. 478; Gaz. vol. 162; p. 83.
Dental impression-tray. J. A. Rowse. No. 981,476; Jan. 10; Sp. p. 2963; Gaz. vol. 162; p. 481.
Dental impression-tray. J. W. Greene. No. 987,063; Mar. 14; Sp. p. 2730; Gaz. vol. 164; p. 472.
Dental inlay-fillings, &c., Making. W. H. Taggart. No. 983,579; Feb. 7; Sp. p. 707; Gaz. vol. 163; p. 110.
Dental instrument. C. F. Lauderdale. No. 990,277; Apr. 25; Sp. p. 4265; Gaz. vol. 165; p. 760.
Dental instrument holding and sterilizing bracket-table. L. A. Kent and G. H. Tuttle. No. 991,320; May 2; Sp. p. 1063; Gaz. vol. 166; p. 178.
Dental investment-cup. T. E. Lee. No. 1,013,028; Dec. 26; Sp. p. 5868; Gaz. vol. 173; p. 1026.
Dental matrix-clip. G. H. Shannon. No. 983,844; Feb. 7; Sp. p. 1262; Gaz. vol. 163; p. 202.
Dental matrix-retainer. J. W. Ivory. No. 980,529; Jan. 3; Sp. p. 777; Gaz. vol. 162; p. 124.
Dental molding-ring, Split sliding swiveled. P. Bourne. No. 980,751; Jan. 3; Sp. p. 1222; Gaz. vol. 162; p. 196.
Dental motor. W. E. Butler. No. 984,507; Feb. 14; Sp. p. 2705; Gaz. vol. 163; p. 454.
Dental napkin. A. L. Simpson. No. 983,174; Jan. 31; Sp. p. 6549; Gaz. vol. 162; p. 1139.
Dental pad-holder. J. W. Ivory. No. 1,010,146; Nov. 28; Sp. p. 5502; Gaz. vol. 172; p. 985.
Dental pad-holder. J. W. Ivory. No. 1,010,147; Nov. 28; Sp. p. 5503; Gaz. vol. 172; p. 986.
Dental plate. J. Petry. No. 990,000; Apr. 18; Sp. p. 3671; Gaz. vol. 165; p. 636.
Dental plate-swager. W. T. Lyon. No. 995,616; June 20; Sp. p. 3332; Gaz. vol. 167; p. 587.
Dental plates, Making. G. S. Whittaker. No. 994,895; June 13; Sp. p. 1777; Gaz. vol. 167; p. 313.
Dental plates, Manufacture of. I. G. Warren and H. A. Edwards. No. 990,320; Apr. 25; Sp. p. 4378; Gaz. vol. 165; p. 775.
Dental pliers for holding teeth. J. W. Trosper. No. 1,007,824; Nov. 7; Sp. p. 395; Gaz. vol. 172; p. 62.
Dental plugger. W. F. Gubitz. No. 1,001,638; Aug. 29; Sp. p. 5197; Gaz. vol. 169; p. 963.
Dental polishing device. J. D. Coney. No. 999,964; Aug. 8; Sp. p. 1545; Gaz. vol. 169; p. 291.
Dental prosthesis, Preparing and coloring plastic substances used as bases in. L. Eilertsen. No. 987,451; Mar. 21; Sp. p. 3582; Gaz. vol. 164; p. 638.
Dental suction-plate. J. Petry. No. 1,005,296; Oct. 10; Sp. p. 1578; Gaz. vol. 171; p. 285.
Dental suction-plate. C. Raube. No. 1,006,979; Oct. 24; Sp. p. 5334; Gaz. vol. 171; p. 936.
Dental swaging apparatus. P. B. McCullough. No. 1,012,401; Dec. 19; Sp. p. 4473; Gaz. vol. 173; p. 766.
Dental tool. F. H. Skinner. No. 989,882; Apr. 18; Sp. p. 3405; Gaz. vol. 165; p. 594.
Dental tool. F. H. Skinner. No. 1,003,213; Sept. 12; Sp. p. 2266; Gaz. vol. 170; p. 390.
Dental tool. T. S. Waters. No. 1,004,118; Sept. 26; Sp. p. 4093; Gaz. vol. 170; p. 763.
Dental tool-holder. C. R. Powers. No. 993,100; May 23; Sp. p. 4884; Gaz. vol. 166; p. 885.
Dental tooth-regulating appliance. E. H. Angle and J. L. Young. No. 1,005,131; Oct. 10; Sp. p. 1190; Gaz. vol. 171; p. 224.
Dental work. H. D. Best. (Reissue.) No. 13,203; Feb. 14; Sp. p. 2746; Gaz. vol. 163; p. 459.
Dentist's balance. W. O. Talbot. No. 1,002,784; Sept. 5; Sp. p. 1336; Gaz. vol. 170; p. 202.
Dentist's soldering-tool. B. Fischler. No. 1,011,597; Dec. 12; Sp. p. 2726; Gaz. vol. 173; p. 457.
Denture. A. Gysi. No. 990,548; Apr. 25; Sp. p. 4910; Gaz. vol. 165; p. 856.
Denture. S. G. Supplee. No. 994,213; June 6; Sp. p. 237; Gaz. vol. 167; p. 40.
Dentures, Articulator for making artificial. C. E. Luce. No. 1,009,912; Nov. 28; Sp. p. 5015; Gaz. vol. 172; p. 905.
Deodorizing and disinfecting apparatus. J. B. MacKay. No. 1,012,089; Dec. 19; Sp. p. 3814; Gaz. vol. 173; p. 661.
Depositing-machine cake-centering device. E. Herisse. No. 1,009,413; Nov. 21; Sp. p. 4016; Gaz. vol. 172; p. 694.
Depth-gage. J. Stiriss. No. 988,672; Apr. 4; Sp. p. 817; Gaz. vol. 165; p. 132.
Depth-gage. F. I. Walker. No. 1,009,605; Nov. 21; Sp. p. 4395; Gaz. vol. 172; p. 757.
Derail. S. W. Hayes. No. 988,190; Mar. 28; Sp. p. 5171; Gaz. vol. 164; p. 917.
Derail. S. W. Hayes. No. 1,007,102; Oct. 31; Sp. p. 5613; Gaz. vol. 171; p. 1032.
Derail appliance, Double-. L. J. Kieffer. No. 1,000,680; Aug. 15; Sp. p. 3162; Gaz. vol. 169; p. 573.
Derail, Portable. S. W. Hayes. No. 988,189; Mar. 28; Sp. p. 5168; Gaz. vol. 164; p. 917.
Derailing device. L. H. Connelly. No. 999,190; July 25; Sp. p. 5633; Gaz. vol. 168; p. 1002.
Derailing-machine. D. W. Martin. No. 982,153; Jan. 17; Sp. p. 4386; Gaz. vol. 162; p. 734.
Derailment-guard. F. Gehricke. No. 995,128; June 13; Sp. p. 2246; Gaz. vol. 167; p. 391.
Derailment-guard. M. F. Welch. No. 995,309; June 13; Sp. p. 2600; Gaz. vol. 167; p. 450.
Derrick. G. Frink. No. 984,898; Feb. 21; Sp. p. 3544; Gaz. vol. 163; p. 626.
Derrick. M. J. Sasgen. No. 988,035; Mar. 28; Sp. p. 4879; Gaz. vol. 164; p. 867.
Derrick. M. J. Sasgen. No. 989,430; Apr. 11; Sp. p. 2414; Gaz. vol. 165; p. 407.
Derrick. S. Kaskóto. No. 989,611; Apr. 18; Sp. p. 2836; Gaz. vol. 165; p. 501.
Derrick. E. Erevick. No. 1,007,776; Nov. 7; Sp. p. 275; Gaz. vol. 172; p. 44.
Derrick. A. G. A. Schmidt. No. 1,008,564; Nov. 14; Sp. p. 2118; Gaz. vol. 172; p. 362.
Derrick, Floating. F. Correll. No. 1,000,152; Aug. 8; Sp. p. 1982; Gaz. vol. 169; p. 356.
Derrick for stacking hay, &c. C. O. Kinney. No. 987,305; Mar. 21; Sp. p. 3278; Gaz. vol. 164; p. 589.
Derrick, Hand-. J. L. Taylor. No. 1,003,072; Sept. 12; Sp. p. 1952; Gaz. vol. 170; p. 338.
Derrick, Portable. A. N. Hadley. No. 1,001,755; Aug. 29; Sp. p. 5459; Gaz. vol. 169; p. 1005.
Derrick, Portable. J. L. Taylor. No. 1,010,530; Dec. 5; Sp. p. 291; Gaz. vol. 173; p. 46.
Derrick, Portable. T. G. Schmeiser. No. 1,012,921; Dec. 26; Sp. p. 5616; Gaz. vol. 173; p. 990.
Desiccating apparatus. W. S. Osborne. No. 1,011,993; Dec. 19; Sp. p. 3588; Gaz. vol. 173; p. 627.
Designator, recorder, and register. E. J. Brandt. No. 984,999; Feb. 21; Sp. p. 3727; Gaz. vol. 163; p. 659.
Designing device. T. Lund. No. 1,001,658; Aug. 29; Sp. p. 5236; Gaz. vol. 169; p. 970.
Designs, Making ornamental perforated. F. W. Derbyshire. No. 1,001,514; Aug. 22; Sp. p. 4934; Gaz. vol. 169; p. 891.
Desk and seat, Combined. W. P. Getchell. No. 1,012,349; Dec. 19; Sp. p. 4379; Gaz. vol. 173; p. 750.
Desk, Automatic. W. L. Amo. No. 1,009,373; Nov. 21; Sp. p. 3919; Gaz. vol. 172; p. 679.
Desk, Hygienic. U. Louis. No. 981,441; Jan. 10; Sp. p. 2902; Gaz. vol. 162; p. 469.
Desk-pad support. C. L. Rockwell. No. 1,011,853; Dec. 12; Sp. p. 3269; Gaz. vol. 173; p. 543.
Desk-rack. S. D. Langley. No. 998,250; July 18; Sp. p. 3580; Gaz. vol. 168; p. 642.
Desk-reminder. G. W. Wright. No. 1,006,334; Oct. 17; Sp. p. 3897; Gaz. vol. 171; p. 681.
Desk safety device, Cash-. W. Eichelkraut. No. 1,008,125; Nov. 7; Sp. p. 1025; Gaz. vol. 172; p. 166.
Desk, School-. J. Andersen and C. Dam. No. 996,044; June 27; Sp. p. 4243; Gaz. vol. 167; p. 771.
Desk, School-. L. Voss. No. 996,172; June 27; Sp. p. 4512; Gaz. vol. 167; p. 815.
Desk-shelf, Swinging. J. F. Collins. No. 981,979; Jan. 17; Sp. p. 4052; Gaz. vol. 162; p. 676.
Desk-tray. J. S. Rowe. No. 981,949; Jan. 17; Sp. p. 3989; Gaz. vol. 162; p. 666.
Desk-tray. L. Senge. No. 982,538; Jan. 24; Sp. p. 5214; Gaz. vol. 162; p. 899.
Desks and other objects, Standard for school-. W. B. Cogger. No. 998,074; July 18; Sp. p. 3198; Gaz. vol. 168; p. 579.
Detachable handle. A. L. Williams. No. 998,729; July 25; Sp. p. 4660; Gaz. vol. 168; p. 844.
Detachable handle for suit-cases and traveling-bags, &c. E. Quinn. No. 988,896; Apr. 4; Sp. p. 1268; Gaz. vol. 165; p. 203.
Detachable-tooth fork. P. C. Paulsen and P. Sanderson. No. 992,046; May 9; Sp. p. 2563; Gaz. vol. 166; p. 456.
Detachable wheel. B. B. Hill. No. 1,002,151; Aug. 29; Sp. p. 6277; Gaz. vol. 169; p. 1135.
Detachable wheel. V. Riley. No. 1,010,803; Dec. 5; Sp. p. 897; Gaz. vol. 173; p. 141.
Detector-bar. A. C. Livermore. No. 991,073; May 2; Sp. p. 510; Gaz. vol. 166; p. 88.
Detector-bar. E. Reid. No. 991,170; May 2; Sp. p. 731; Gaz. vol. 166; p. 124.
Detector-meter. A. Blauvelt. No. 980,188; Jan. 3; Sp. p. 20; Gaz. vol. 162; p. 6.
Detent mechanism. W. K. Howe. No. 985,677; Feb. 28; Sp. p. 5242; Gaz. vol. 163; p. 926.
Detergent. E. E. Johnson. No. 984,566; Feb. 21; Sp. p. 2864; Gaz. vol. 163; p. 510.
Detergent and disinfectant for worn woolens, serges, and other goods, Nap-raising. C. A. McKinnon. No. 991,869; May 9; Sp. p. 2220; Gaz. vol. 166; p. 396.
Detergent and production of same. J. Stockhausen. No. 998,995; July 25; Sp. p. 5266; Gaz. vol. 168; p. 938.
Detinning. H. Brandenburg. No. 1,012,511; Dec. 19; Sp. p. 4680; Gaz. vol. 173; p. 804.
Detinning and degalvanizing scrap. A. S. Ramage. No. 983,931; Feb. 14; Sp. p. 1477; Gaz. vol. 163; p. 260.
Detonating alarm. H. Jones. No. 1,005,844; Oct. 17; Sp. p. 2787; Gaz. vol. 171; p. 508.
Detonating device. E. E. Stone. No. 986,322; Mar. 7; Sp. p. 1177; Gaz. vol. 164; p. 190.
Detonator. J. Harlé. No. 982,208; Jan. 17; Sp. p. 4485; Gaz. vol. 162; p. 753.

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Detonator. R. A. Moore. No. 996,505; June 27; Sp. p. 5290; Gaz. vol. 167; p. 928.
Developing-tank. M. L. Victorius. No. 1,002,946; Sept. 12; Sp. p. 1719; Gaz. vol. 170; p. 297.
Dextrin, Manufacturing. H. Wulkan. No. 993,011; May 23; Sp. p. 4683; Gaz. vol. 166; p. 854.
Dial, Sun-path. J. F. Morse. No. 990,764; Apr. 25; Sp. p. 5382; Gaz. vol. 165; p. 929.
Dials, Producing thin enameled. E. L. Hull. No. 994,162; June 6; Sp. p. 122; Gaz. vol. 167; p. 22.
Diameter-gage. W. B. Mair. No. 1,008,842; Nov. 14; Sp. p. 2725; Gaz. vol. 172; p. 458.
Diamond-cover. F. C. Clarke. No. 983,857; Feb. 7; Sp. p. 1285; Gaz. vol. 163; p. 206.
Diamonds, Apparatus for regrinding and polishing perforated. L. Poppe. No. 983,929; Feb. 14; Sp. p. 1475; Gaz. vol. 163; p. 260.
Dianthraquinonyl-dialdehydes and making them. M. H. Isler. No. 1,004,433; Sept. 26; Sp. p. 4948; Gaz. vol. 170; p. 870.
Diaphragm. J. H. Kinealy. No. 988,472; Apr. 4; Sp. p. 389; Gaz. vol. 165; p. 62.
Diaphragm construction. W. S. Heltzen. No. 984,915; Feb. 21; Sp. p. 3580; Gaz. vol. 163; p. 631.
Diaphragm-face-plate attachment. V. Labadie. No. 986,182; Mar. 7; Sp. p. 893; Gaz. vol. 164; p. 144.
Diaphragm, Iris-. A. Wollensak. No. 985,311; Feb. 28; Sp. p. 4451; Gaz. vol. 163; p. 801.
Dictaphone recorder and reproducer. T. H. Macdonald. No. 1,003,625; Sept. 19; Sp. p. 3138; Gaz. vol. 170; p. 566.
Die: *See* Automatically-opening die; Barrel-forming die; Can-top-perforating die; Chaser-die; Cutting-die; Cutting and stamping die; Forging-die; Fortune-telling die; Furnace-forming die; Male die; Pipe-die; Sash-weight die; Screw-cutting die; Screw-threading die; Thread-cutting die; Threading-die; Welding-die.
Die. W. Edmonson. No. 988,866; Apr. 4; Sp. p. 1215; Gaz. vol. 165; p. 194.
Die. W. J. MacFarland and W. G. Eaton. (Reissue.) No. 13,228; Apr. 18; Sp. p. 4098; Gaz. vol. 165; p. 705.
Die. M. E. Blume. No. 995,399; June 13; Sp. p. 2830; Gaz. vol. 167; p. 481.
Die. L. Strebel. No. 1,009,699; Nov. 21; Sp. p. 4568; Gaz. vol. 172; p. 787.
Die and shearing mechanism. T. C. Best. No. 1,008,940; Nov. 14; Sp. p. 2925; Gaz. vol. 172; p. 489.
Die-holder. J. W. Clark. No. 1,008,115; Nov. 7; Sp. p. 1005; Gaz. vol. 172; p. 162.
Die-holder, Releasing. F. S. Shields. No. 996,890; July 4; Sp. p. 600; Gaz. vol. 168; p. 99.
Die-holder safety device. C. W. Vaughn. No. 981,335; Jan. 10; Sp. p. 2656; Gaz. vol. 162; p. 432.
Die-stock. W. H. Leaver. No. 986,473; Mar. 14; Sp. p. 1520; Gaz. vol. 164; p. 273.
Die-stock. L. F. Hart. No. 990,864; May 2; Sp. p. 87; Gaz. vol. 166; p. 16.
Die-stock. J. A. Becher. No. 991,687; May 9; Sp. p. 1869; Gaz. vol. 166; p. 337.
Die-stock. H. R. Farnsworth. No. 994,731; June 13; Sp. p. 1378; Gaz. vol. 167; p. 257.
Die-stock attachment. J. M. Monie. No. 992,973; May 23; Sp. p. 4607; Gaz. vol. 166; p. 841.
Die-stock reamer attachment. A. G. Kuhlman. No. 1,009,672; Nov. 21; Sp. p. 4515; Gaz. vol. 172; p. 777.
Die-stock reaming attachment. F. Saville. No. 991,092; May 2; Sp. p. 549; Gaz. vol. 166; p. 95.
Dies. W. Horsley. No. 1,000,002; Aug. 8; Sp. p. 1621; Gaz. vol. 169; p. 305.
Differential mechanism. G. H. Graham. No. 981,258; Jan. 10; Sp. p. 2494; Gaz. vol. 162; p. 405.
Differential mechanism. G. H. Graham. No. 981,259; Jan. 10; Sp. p. 2497; Gaz. vol. 162; p. 406.
Differential mechanism. A. D. Gilpin. No. 997,617; July 11; Sp. p. 2115; Gaz. vol. 168; p. 377.
Digger: *See* Beet-digger; Grass and potato digger; Hole-digger; Peanut-digger; Post-hole digger; Potato-digger.
Digging holes for posts, &c., Apparatus for. A. Swenson. No. 995,496; June 20; Sp. p. 3052; Gaz. vol. 167; p. 544.
Digging-machine attachment, Ditch-. W. Arps. No. 982,781; Jan. 31; Sp. p. 5716; Gaz. vol. 162; p. 1008.
Dilator. J. B. Lott. No. 988,120; Mar. 28; Sp. p. 5043; Gaz. vol. 164; p. 895.
Dilator. W. B. Dewees. No. 997,907; July 11; Sp. p. 2802; Gaz. vol. 168; p. 479.
Dimension-gage. P. M. Anderson. No. 999,141; July 25; Sp. p. 5543; Gaz. vol. 168; p. 985.
Dining-table, Automatic or self-opening extension. E. Napoli. No. 1,003,490; Sept. 19; Sp. p. 2833; Gaz. vol. 170; p. 518.
Dioxid, Diphenylene. R. Zaertling and H. Friedrich. No. 981,348; Jan. 10; Sp. p. 2692; Gaz. vol. 162; p. 437.
Dipper construction. C. L. McKenzie. No. 1,009,254; Nov. 21; Sp. p. 3639; Gaz. vol. 172; p. 635.
Dipper-door. F. W. Thomson. No. 986,522; Mar. 14; Sp. p. 1626; Gaz. vol. 164; p. 289.
Dipper-tooth. V. W. Mason, Jr. No. 981,666; Jan. 17; Sp. p. 3331; Gaz. vol. 162; p. 566.
Dipper-tooth. J. G. Skelton. No. 1,003,663; Sept. 19; Sp. p. 3215; Gaz. vol. 170; p. 580.
Dipping apparatus. E. Herisse. No. 1,008,034; Nov. 7; Sp. p. 837; Gaz. vol. 172; p. 133.
Direct-acting engine. L. C. Bayles. No. 996,448; June 27; Sp. p. 5189; Gaz. vol. 167; p. 909.
Direct-acting engine. G. L. Badger. No. 998,563; July 18; Sp. p. 4247; Gaz. vol. 168; p. 752.
Direct-connected elevator. C. O. Pearson. No. 985,697; Feb. 28; Sp. p. 5308; Gaz. vol. 163; p. 933.
Direct-heat drier. W. R. Macklind. No. 1,001,659; Aug. 29; Sp. p. 5239; Gaz. vol. 169; p. 971.
Directory, Loose-leaf. C. C. Daniel. No. 1,001,124; Aug. 22; Sp. p. 4170; Gaz. vol. 169; p. 762.
Directory, Mechanical. E. Inge. No. 1,007,286; Oct. 31; Sp. p. 6020; Gaz. vol. 171; p. 1099.
Disappearing chair. C. E. Edmund. No. 982,710; Jan. 24; Sp. p. 5552; Gaz. vol. 162; p. 956.
Discharge apparatus. H. V. R. Read and R. H. Campbell. No. 980,835; Jan. 3; Sp. p. 1405; Gaz. vol. 162; p. 225.
Discharge effects on colored grounds, Producing. B. Wuth. No. 1,000,313; Aug. 8; Sp. p. 2316; Gaz. vol. 169; p. 411.
Discus. E. M. Burr. No. 1,006,628; Oct. 24; Sp. p. 4578; Gaz. vol. 171; p. 816.
Dish and lid lifter. W. Brethour. No. 1,006,460; Oct. 24; Sp. p. 4189; Gaz. vol. 171; p. 754.
Dish-drainer. W. Peters. No. 990,454; Apr. 25; Sp. p. 4687; Gaz. vol. 165; p. 824.
Dish-drainer. R. Starn. No. 993,898; May 30; Sp. p. 6575; Gaz. vol. 166; p. 1185.
Dish-pan-draining attachment. I. A. Wallquist. No. 982,908; Jan. 31; Sp. p. 6001; Gaz. vol. 162; p. 1051.
Dish rinsing and drying rack. C. H. Dudley. No. 1,008,124; Nov. 7; Sp. p. 1024; Gaz. vol. 172; p. 166.
Dish-washer. R. U. Bryant. No. 1,012,804; Dec. 26; Sp. p. 5342; Gaz. vol. 173; p. 951.
Dish washer and drainer. A. T. and O. F. McHargue. No. 1,001,059; Aug. 22; Sp. p. 4025; Gaz. vol. 169; p. 741.
Dish-washing device. W. H. Haskins. No. 990,047; Apr. 18; Sp. p. 3762; Gaz. vol. 165; p. 650.
Dish-washing machine. A. Panasci. No. 981,221; Jan. 10; Sp. p. 2419; Gaz. vol. 162; p. 392.
Dish-washing machine. C. H. J. Dilg. No. 982,578; Jan. 24; Sp. p. 5282; Gaz. vol. 162; p. 912.
Dish-washing machine. G. Brander. No. 987,544; Mar. 21; Sp. p. 3743; Gaz. vol. 164; p. 669.
Dish-washing machine. W. C. Schrader. No. 987,602; Mar. 21; Sp. p. 3867; Gaz. vol. 164; p. 689.
Dish-washing machine. H. A. Johnston. No. 993,602; May 30; Sp. p. 5948; Gaz. vol. 166; p. 1083.
Dish-washing machine. L. H. Campbell. No. 999,956; Aug. 8; Sp. p. 1532; Gaz. vol. 169; p. 289.
Dish-washing machine. W. W. Westcott. No. 1,006,707; Oct. 24; Sp. p. 4722; Gaz. vol. 171; p. 841.
Dish-washing machine. J. G. Cochrane. No. 1,009,223; Nov. 21; Sp. p. 3575; Gaz. vol. 172; p. 625.
Dishing plates. J. S. Worth and C. B. Fairweather. No. 1,011,000; Dec. 5; Sp. p. 1320; Gaz. vol. 173; p. 210.
Disinfectant. R. Haertel. No. 996,759; July 4; Sp. p. 323; Gaz. vol. 168; p. 55.
Disinfectant. K. L. V. Zimmer. No. 1,010,210; Nov. 28; Sp. p. 5627; Gaz. vol. 172; p. 1007.
Disinfectant-distributing device. T. R. Dunkley. No. 1,002,974; Sept. 12; Sp. p. 1770; Gaz. vol. 170; p. 307.
Disinfectant holder or container. J. R. C. Bogie. No. 991,825; May 9; Sp. p. 2144; Gaz. vol. 166; p. 382.
Disinfectant, Making a. E. Leonhardt. No. 1,001,964; Aug. 29; Sp. p. 5934; Gaz. vol. 169; p. 1075.
Disinfecting apparatus. G. Harker. No. 993,365; May 30; Sp. p. 5443; Gaz. vol. 166; p. 1005.
Disinfecting apparatus. A. H. Davids. No. 994,824; June 13; Sp. p. 1609; Gaz. vol. 167; p. 290.
Disinfecting apparatus. W. Schwarzhaupt. No. 1,005,334; Oct. 10; Sp. p. 1668; Gaz. vol. 171; p. 298.
Disinfecting apparatus. W. Burton. No. 1,012,981; Dec. 26; Sp. p. 5766; Gaz. vol. 173; p. 1010.
Disinfecting-cabinet. W. C. Burrichter. No. 992,639; May 16; Sp. p. 3887; Gaz. vol. 166; p. 695.
Disinfecting-closet, Automatic. N. Ogden. No. 984,696; Feb. 21; Sp. p. 3142; Gaz. vol. 163; p. 556.
Disinfecting composition. O. Bernheimer. No. 989,322; Apr. 11; Sp. p. 2196; Gaz. vol. 165; p. 373.
Disinfecting compound and making same. J. M. Schutz. No. 997,514; July 11; Sp. p. 1891; Gaz. vol. 168; p. 341.
Disinfecting device. J. Kneen. No. 985,350; Feb. 28; Sp. p. 4535; Gaz. vol. 163; p. 814.
Disinfecting device. T. Druzbach. No. 988,178; Mar. 28; Sp. p. 5151; Gaz. vol. 164; p. 914.
Disinfecting device. T. H. Rowland. No. 996,797; July 4; Sp. p. 393; Gaz. vol. 168; p. 66.
Disinfecting device. D. N. Hitchcock. No. 997,914; July 11; Sp. p. 2817; Gaz. vol. 168; p. 481.
Disinfecting device. W. M. Tovey. No. 1,009,868; Nov. 28; Sp. p. 4936; Gaz. vol. 172; p. 891.
Disinfecting device, Automatic. T. F. Habesy. No. 1,007,442; Oct. 31; Sp. p. 6352; Gaz. vol. 171; p. 1153.
Disinfection of closet-seats, Apparatus for. W. Baginsky. No. 984,734; Feb. 21; Sp. p. 3226; Gaz. vol. 163; p. 571.
Disinfector and deodorizer. J., W. H., and E. R. Williams. (Reissue.) No. 13,314; Nov. Sp. 3134; Gaz. vol. 172; p. 523.

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Disintegrating and value-saving machine. G. Marshall. No. 985,359; Feb. 28; Sp. p. 4548; Gaz. vol. 163; p. 816.
Disintegrating-machines, Feeding mechanism for. M. F. Williams and E. H. Frickey. No. 1,004,126; Sept. 26; Sp. p. 4306; Gaz. vol. 170; p. 766.
Disintegrator. J. Mohs. No. 985,919; Mar. 7; Sp. p. 346; Gaz. vol. 164; p. 56.
Disintegrator. W. Youlten. No. 989,468; Apr. 11; Sp. p. 2483; Gaz. vol. 165; p. 420.
Disk, Concave. G. Spalding. No. 1,007,399; Oct. 31; Sp. p. 6260; Gaz. vol. 171; p. 1139.
Disk crank. F. E. Sutherland and J. A. Brown. No. 982,545; Jan. 24; Sp. p. 5227; Gaz. vol. 162; p. 901.
Disk drier, Rotary-. W. R. Macklind. No. 1,001,660; Aug. 29; Sp. p. 5245; Gaz. vol. 169; p. 971.
Disk fender. W. A. Parker. No. 1,006,002; Oct. 17; Sp. p. 3140; Gaz. vol. 171; p. 564.
Disk stopper, Lever. E. Guthrie. No. 1,011,054; Dec. 5; Sp. p. 1427; Gaz. vol. 173; p. 227.
Disk-support. L. E. Waterman. No. 990,934; May 2; Sp. p. 226; Gaz. vol. 166; p. 39.
Dispenser for straws and other articles. N. P. Dazey. No. 1,010,121; Nov. 28; Sp. p. 5453; Gaz. vol. 172; p. 977.
Dispensers, Loading-wire for traveler-. J. S. Drake. No. 995,847; June 20; Sp. p. 3841; Gaz. vol. 167; p. 668.
Dispensing apparatus. R. G. Marsh. No. 981,296; Jan. 10; Sp. p. 2567; Gaz. vol. 162; p. 418.
Dispensing apparatus. L. C. Cooper. No. 989,837; Apr. 18; Sp. p. 3320; Gaz. vol. 165; p. 580.
Dispensing apparatus. W. B. Penick and H. T. Kirkland. No. 998,389; July 18; Sp. p. 3916; Gaz. vol. 168; p. 694.
Dispensing apparatus. L. G. Green. No. 1,003,449; Sept. 19; Sp. p. 2751; Gaz. vol. 170; p. 504.
Dispensing apparatus. C. O. Dietsch and T. Kurrell. No. 1,005,519; Oct. 10; Sp. p. 2064; Gaz. vol. 171; p. 363.
Dispensing apparatus. L. K. Larrison. No. 1,005,650; Oct. 10; Sp. p. 2389; Gaz. vol. 171; p. 410.
Dispensing apparatus. E. A. Friese. No. 1,012,621; Dec. 26; Sp. p. 4930; Gaz. vol. 173; p. 887.
Dispensing apparatus. E. E. Murphy. No. 1,013,045; Dec. 26; Sp. p. 5900; Gaz. vol. 173; p. 1032.
Dispensing-case. E. F. Hulbert. No. 980,956; Jan. 10; Sp. p. 1723; Gaz. vol. 162; p. 297.
Dispensing device. C. Nemethi. No. 984,592; Feb. 21; Sp. p. 2918; Gaz. vol. 163; p. 519.
Dispensing device. G. C. Bowes. No. 990,628; Apr. 25; Sp. p. 5067; Gaz. vol. 165; p. 883.
Dispensing-machine. F. O. Bullis. No. 994,717; June 13; Sp. p. 1338; Gaz. vol. 167; p. 252.
Dispensing-receptacle. J. Jackson. No. 1,011,800; Dec. 12; Sp. p. 3149; Gaz. vol. 173; p. 526.
Dispensing-receptacle, Single-delivery. W. C. Bridges. No. 997,112; July 4; Sp. p. 1086; Gaz. vol. 168; p. 176.
Dispensing vessel. G. H. Garnet. No. 995,340; June 13; Sp. p. 2690; Gaz. vol. 167; p. 461.
Display and icing case and can, Combined sheet-metal oyster. C. Stollberg. No. 1,002,333; Sept. 5; Sp. p. 344; Gaz. vol. 170; p. 49.
Display and serving apparatus. C. E. Ringrose. No. 1,009,181; Nov. 21; Sp. p. 3436; Gaz. vol. 172; p. 608.
Display and storage cabinet for shirts, &c. J. F. Prather. No. 1,010,950; Dec. 5; Sp. p. 1219; Gaz. vol. 173; p. 192.
Display apparatus. B. B. Bienhoff. No. 983,344; Feb. 7; Sp. p. 180; Gaz. vol. 163; p. 32.
Display apparatus. G. O. Gulack. No. 988,262; Mar. 28; Sp. p. 5314; Gaz. vol. 164; p. 940.
Display apparatus. L. W. Welch. No. 991,918; May 9; Sp. p. 2325; Gaz. vol. 166; p. 413.
Display apparatus. O. A. Lindeman and F. M. Freed. No. 995,359; June 13; Sp. p. 2746; Gaz. vol. 167; p. 468.
Display apparatus. T. R. Clark. No. 1,007,534; Oct. 31; Sp. p. 6552; Gaz. vol. 171; p. 1185.
Display apparatus. W. L. Thorne. No. 1,007,753; Nov. 7; Sp. p. 229; Gaz. vol. 172; p. 37.
Display apparatus. F. Conly. No. 1,009,477; Nov. 21; Sp. p. 4151; Gaz. vol. 172; p. 715.
Display apparatus. S. Hata. No. 1,009,839; Nov. 28; Sp. p. 4884; Gaz. vol. 172; p. 882.
Display apparatus. K. Koike. No. 1,012,655; Dec. 26; Sp. p. 5005; Gaz. vol. 173; p. 898.
Display apparatus. H. R. Crane. No. 1,012,989; Dec. 26; Sp. p. 5787; Gaz. vol. 173; p. 1012.
Display apparatus, Electromagnetic. W. A. Harvey. No. 981,646; Jan. 17; Sp. p. 3293; Gaz. vol. 162; p. 560.
Display appliance. I. L. Bradford. No. 984,261; Feb. 14; Sp. p. 2208; Gaz. vol. 163; p. 373.
Display-board. W. A. Fitts. No. 983,885; Feb. 14; Sp. p. 1371; Gaz. vol. 163; p. 246.
Display-box. F. Westerbeck. No. 995,747; June 20; Sp. p. 3605; Gaz. vol. 167; p. 633.
Display-box. G. C. Macdonald. No. 1,012,674; Dec. 26; Sp. p. 5037; Gaz. vol. 173; p. 904.
Display-box front fastener. A. F. Urban. No. 1,002,013; Aug. 29; Sp. p. 6027; Gaz. vol. 169; p. 1091.
Display-cabinet. R. H. Reid. No. 992,689; May 16; Sp. p. 3977; Gaz. vol. 166; p. 709.
Display-cabinet. E. Smith and A. Nelson. No. 993,895; May 30; Sp. p. 6571; Gaz. vol. 166; p. 1184.
Display-cabinet. C. L. Kunz. No. 1,008,722; Nov. 14; Sp. p. 2470; Gaz. vol. 172; p. 418.
Display-cabinet. S. Bachrach. No. 1,012,965; Dec. 26; Sp. p. 5728; Gaz. vol. 173; p. 1005.
Display-cabinet door. J. Hofman, H. Bucklin, and D. E. Burr. No. 1,008,266; Nov. 7; Sp. p. 1331; Gaz. vol. 172; p. 218.
Display cabinet, Picture-. M. C. Phillips. No. 995,287; June 13; Sp. p. 2559; Gaz. vol. 167; p. 444.
Display-can, Sheet-metal. J. F. Xavier, J. E. Schenck, and F. Rudolph. No. 983,469; Feb. 7; Sp. p. 457; Gaz. vol. 163; p. 73.
Display-canister. L. P. Christophersen. No. 999,206; Aug. 1; Sp. p. 30; Gaz. vol. 169; p. 7.
Display card, Collar-stay-. J. M. Kaiser. No. 998,249; July 18; Sp. p. 3579; Gaz. vol. 168; p. 642.
Display-carrier. E. F. Hulbert. No. 997,621; July 11; Sp. p. 2134; Gaz. vol. 168; p. 379.
Display-carton. A. M. Boos. No. 1,002,633; Sept. 5; Sp. p. 1012; Gaz. vol. 170; p. 151.
Display-case. A. W. Folsom. No. 981,851; Jan. 17; Sp. p. 3736; Gaz. vol. 162; p. 632.
Display-case. P. Rapoport. No. 991,541; May 9; Sp. p. 1532; Gaz. vol. 166; p. 285.
Display-case. D. Weinstock. No. 991,571; May 9; Sp. p 1604; Gaz. vol. 166; p. 295.
Display-case. H. M. Davenport. No. 1,012,605; Dec. 26; Sp. p. 4887; Gaz. vol. 173; p. 880.
Display-case. M. Lubart. No. 1,012,673; Dec. 26; Sp. p. 5036; Gaz. vol. 173; p. 904.
Display-case, Folding. D. Weinstock. No. 1,008,574; Nov. 14; Sp. p. 2149; Gaz. vol. 172; p. 366.
Display-case, Folding. P. Rapoport. No. 1,012,277; Dec. 19; Sp. p. 4229; Gaz. vol. 173; p. 725.
Display-case for salesmen. W. W. McKnight. No. 1,005,568; Oct. 10; Sp. p. 2204; Gaz. vol. 171; p. 381.
Display-case for thumb-tacks, &c. L. Schermerhorn. No. 997,512; July 11; Sp. p. 1888; Gaz. vol. 168; p. 340.
Display-case, Refrigerator. R. C. Bender. No. 980,911; Jan. 10; Sp. p. 1625; Gaz. vol. 162; p. 282.
Display case, Sanitary banana-. W. W. Haden. No. 1,003,736; Sept. 19; Sp. p. 3386; Gaz. vol. 170; p. 604.
Display device. A. P. S. Deem. No. 981,177; Jan. 10; Sp. p. 2281; Gaz. vol. 162; p. 377.
Display device., E. Woodrum. No. 987,028; Mar. 14; Sp. p. 2660; Gaz. vol. 164; p. 460.
Display device. A. P. S. Deem. No. 989,699; Apr. 18; Sp. p. 3019; Gaz. vol. 165; p. 531.
Display device. J. E. McCabe and F. O. Field. No. 992,893; May 23; Sp. p. 4425; Gaz. vol. 166; p. 812.
Display device. C. W. Kress. No. 993,781; May 30; Sp. p. 6354; Gaz. vol. 166; p. 1146.
Display device. H. W. Knautz. No. 999,232; Aug. 1; Sp. p. 76; Gaz. vol. 169; p. 15.
Display device. J. Stranders. No. 1,002,775; Sept. 5; Sp. p. 1320; Gaz. vol. 170; p. 199.
Display device. H. W. Knautz. No. 1,005,558; Oct. 10; Sp. p. 2167; Gaz. vol. 171; p. 377.
Display device. O. F. Onken. No. 1,007,481; Oct. 31; Sp. p. 6422; Gaz. vol. 171; p. 1167.
Display device. W. Weller. No. 1,009,003; Nov. 14; Sp. p. 3072; Gaz. vol. 172; p. 510.
Display device. M. Thum and T. Wright. No. 1,009,452; Nov. 21; Sp. p. 4101; Gaz. vol. 172; p. 707.
Display device. H. W. Knautz. No. 1,011,446; Dec. 12; Sp. p. 2343; Gaz. vol. 173; p. 401.
Display device. H. W. Knautz. No. 1,011,447; Dec. 12; Sp. p. 2344; Gaz. vol. 173; p. 401.
Display device, Biscuit-box-. E. F. Cullen. No. 985,729; Feb. 28; Sp. p. 5392; Gaz. vol. 163; p. 944.
Display device, Form-. A. Eske. No. 989,771; Apr. 18; Sp. p. 3166; Gaz. vol. 165; p. 556.
Display device, Transmutable. F. C. Newell, Jr. No. 1,004,810; Oct. 3; Sp. p. 564; Gaz. vol. 171; p. 92.
Display device, Wind-actuated. C. E. Dayton. No. 983,608; Feb. 7; Sp. p. 763; Gaz. vol. 163; p. 120.
Display-fixture. J. T. Clark. No. 984,797; Feb. 21; Sp. p. 3357; Gaz. vol. 163; p. 592.
Display-fixture. J. T. Clark. No. 984,798; Feb. 21; Sp. p. 3359; Gaz. vol. 163; p. 593.
Display-fixture. J. W. Essex. No. 1,005,820; Oct. 17; Sp. p. 2736; Gaz. vol. 171; p. 499.
Display-frame. H. H. and H. T. Hipwell. No. 1,001,403; Aug. 22; Sp. p. 4746; Gaz. vol. 169; p. 856.
Display frame, Wall-paper-. D. Shaffer. No. 1,012,170; Dec. 19; Sp. p. 3991; Gaz. vol. 173; p. 688.
Display-holder, Foldable. W. J. Scherer. No. 1,011,857; Dec. 12; Sp. p. 3273; Gaz. vol. 173; p. 544.
Display holder, Gem-. M. L. Alsop. No. 1,012,501; Dec. 19; Sp. p. 4667; Gaz. vol. 173; p. 801.
Display-machine. V. Rohde. No. 997,637; July 11; Sp. p. 2167; Gaz. vol. 168; p. 384.
Display machine, Automatic poster-. W. E. Williams. No. 994,811; June 13; Sp. p. 1555; Gaz. vol. 167; p. 285.
Display mechanism, Window-. D. Fuller. No. 1,002,911; Sept. 12; Sp. p. 1650; Gaz. vol. 170; p. 285.
Display-mount. W. M. Foote. No. 1,002,910; Sept. 12; Sp. p. 1649; Gaz. vol. 170; p. 285.
Display-packet. H. A. Wilcox. No. 989,935; Apr. 18; Sp. p. 3531; Gaz. vol. 165; p. 613.

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Display-rack. J. M. Hendrix. No. 983,052; Jan. 31; Sp. p. 6335; Gaz. vol. 162; p. 1100.
Display-rack. O. L. Smith. No. 987,183; Mar. 21; Sp. p. 3002; Gaz. vol. 164; p. 546.
Display-rack. L. W. Welch. No. 989,740; Apr. 18; Sp. p. 3108; Gaz. vol. 165; p. 546.
Display-rack. F. N. Skinner. No. 990,671; Apr. 25; Sp. p. 5200; Gaz. vol. 165; p. 897.
Display-rack. L. J. Cuddy. No. 990,711; Apr. 25; Sp. p. 5274; Gaz. vol. 165; p. 910.
Display-rack. A. E. Miller. No. 991,164; May 2; Sp. p. 718; Gaz. vol. 166; p. 122.
Display-rack. A. E. Miller. No. 993,186; May 23; Sp. p. 5046; Gaz. vol. 166; p. 911.
Display-rack. J. J. Mallen. No. 993,532; May 30; Sp. p. 5799; Gaz. vol. 166; p. 1059.
Display-rack. M. E. McCabe. No. 993,859; May 30; Sp. p. 6508; Gaz. vol. 166; p. 1172.
Display-rack. S. M. Taylor. No. 997,518; July 11; Sp. p. 1907; Gaz. vol. 168; p. 342.
Display-rack. F. W. Lemay. No. 997,925; July 11; Sp. p. 2838; Gaz. vol. 168; p. 485.
Display-rack. C. J. Wadsworth. No. 998,056; July 18; Sp. p. 3153; Gaz. vol. 168; p. 573.
Display-rack. H. H. Altvater. No. 999,189; July 25; Sp. p. 5631; Gaz. vol. 168; p. 1001.
Display-rack. N. J. Little and T. G. Cummings. No. 1,001,867; Aug. 29; Sp. p. 5700; Gaz. vol. 169; p. 1043.
Display-rack. A. C. S. Robinson. No. 1,002,084; Aug. 29; Sp. p. 6159; Gaz. vol. 169; p. 1114.
Display-rack. C. A. Morley. No. 1,002,860; Sept. 12; Sp. p. 1505; Gaz. vol. 170; p. 266.
Display-rack. T. N. Figuers, Jr. No. 1,003,893; Sept. 19; Sp. p. 3689; Gaz. vol. 170; p. 656.
Display-rack. J. E. Cooper. No. 1,007,537; Oct. 31; Sp. p. 6560; Gaz. vol. 171; p. 1186.
Display-rack. J. D. Capers. No. 1,009,827; Nov. 28; Sp. p. 4860; Gaz. vol. 172; p. 878.
Display rack, Bedstead-. J. P. Elliott and T. L. Carter. No. 1,000,790; Aug. 15; Sp. p. 3405; Gaz. vol. 169; p. 611.
Display-rack, Folding. E. E. Schmitt. No. 989,433; Apr. 11; Sp. p. 2419; Gaz. vol. 165; p. 408.
Display-rack for beds. W. Campbell. No. 999,152; July 25; Sp. p. 5564; Gaz. vol. 168; p. 989.
Display-rack for rocking-chairs. P. O. McIntyre. No. 987,078; Mar. 14; Sp. p. 2754; Gaz. vol. 164; p. 476.
Display-rack for rolls of merchandise. M. D. Scott. No. 993,416; May 30; Sp. p. 5545; Gaz. vol. 166; p. 1019.
Display-rack for scythes. H. Carver. No. 983,203; Jan. 31; Sp. p. 6601; Gaz. vol. 162; p. 1149.
Display-rack for trunks. C. A. Kuntzendorf. No. 986,725; Mar. 14; Sp. p. 2050; Gaz. vol. 164; p. 359.
Display rack, Merchandise-. A. T. Edwards. No. 1,006,834; Oct. 24; Sp. p. 5034; Gaz. vol. 171; p. 888.
Display-rack, Roll-holding. J. D. Capers. No. 991,827; May 9; Sp. p. 2146; Gaz. vol. 166; p. 382.
Display-rack, Rotary. A. Vanderveld. No. 1,004,605; Oct. 3; Sp. p. 123; Gaz. vol. 171; p. 21.
Display rack, Rug-. G. J. Kepke. No. 980,792; Jan. 3; Sp. p. 1312; Gaz. vol. 162; p. 211.
Display rack, Wall-paper-. J. L. Harr. No. 983,439; Feb. 7; Sp. p. 384; Gaz. vol. 163; p. 63.
Display rack, Wall-paper-. C. D. Edwards. No. 1,007,678; Nov. 7; Sp. p. 40; Gaz. vol. 172; p. 10.
Display-stand. T. P. Briody, A. B. Fagan, and J. R. Lynch. No. 986,433; Mar. 14; Sp. p. 1435; Gaz. vol. 164; p. 259.
Display-stand. M. Engelsman. No. 988,631; Apr. 4; Sp. p. 739; Gaz. vol. 165; p. 118.
Display-stand. C. R. Walgreen and A. E. Detwiler. No. 989,313; Apr. 11; Sp. p. 2169; Gaz. vol. 165; p. 369.
Display-stand. H. G. Dreyer. No. 990,346; Apr. 25; Sp. p. 4432; Gaz. vol. 165; p. 784.
Display-stand. W. Gilbert. No. 993,240; May 23; Sp. p. 5162; Gaz. vol. 166; p. 928.
Display-stand. W. E. Ragsdale. No. 1,007,972; Nov. 7; Sp. p. 722; Gaz. vol. 172; p. 113.
Display-stand. E. Bergquist. No. 1,010,113; Nov. 28; Sp. p. 5440; Gaz. vol. 172; p. 975.
Display-stand. D. Zacharis. No. 1,012,959; Dec. 26; Sp. p. 5721; Gaz. vol. 173; p. 1004.
Display-stand and carrier, Combined. D. Lloyd. No. 1,001,416; Aug. 22; Sp. p. 4773; Gaz. vol. 169; p. 860.
Display stand, Floral-. J. H. Burns. No. 1,012,242; Dec. 19; Sp. p. 4158; Gaz. vol. 173; p. 713.
Display stand, Garment-. V. H. Canham. No. 988,927; Apr. 4; Sp. p. 1330; Gaz. vol. 165; p. 213.
Display, Window-. H. Kempinski. No. 995,607; June 20; Sp. p. 3315; Gaz. vol. 167; p. 584.
Display-windows, Device for protection of. F. M. White. No. 983,663; Feb. 7; Sp. p. 875; Gaz. vol. 163; p. 140.
Displayer, Rug-. W. J. Smith. No. 997,866; July 11; Sp. p. 2708; Gaz. vol. 168; p. 464.
Displaying carpets and the like, Machine for. T. C. De Lisle and W. T. Phillips. No. 1,008,245; Nov. 7; Sp. p. 1289; Gaz. vol. 172; p. 211.
Displaying dolls and the like, Stand for. E. M. Moore and W. B. Timberlake. No. 995,982; June 20; Sp. p. 4107; Gaz. vol. 167; p. 714.
Disposal-stations, Apparatus for. W. J. Newman. No. 985,442; Feb. 28; Sp. p. 4747; Gaz. vol. 163; p. 844.
Dissolving-view apparatus. H. Krieger. No. 1,001,534; Aug. 22; Sp. p. 4975; Gaz. vol. 169; p. 898.
Dissolving-view machine. T. B. Eastman. No. 1,003,094; Sept. 12; Sp. p. 2015; Gaz. vol. 170; p. 346.
Distance instrument. C. Möller. No. 1,000,282; Aug. 8; Sp. p. 2259; Gaz. vol. 169; p. 400.
Distillation. R. J. McNitt. No. 994,022; May 30; Sp. p. 6834; Gaz. vol. 166; p. 1226.
Distillation, Destructive. W. B. McLaughlin. No. 1,012,684; Dec. 26; Sp. p. 5058; Gaz. vol. 173; p. 908.
Distillation of alcoholic liquids. E. Guillaume. No. 996,328; June 27; Sp. p. 4921; Gaz. vol. 167; p. 867.
Distillation of metals, Fractional. C. G. Fink. No. 996,474; June 27; Sp. p. 5233; Gaz. vol. 167; p. 918.
Distillation process. F. Pampe. No. 1,007,967; Nov. 7; Sp. p. 714; Gaz. vol. 172; p. 112.
Distillation system. J. M. W. Kitchen. No. 1,008,273; Nov. 7; Sp. p. 1346; Gaz. vol. 172; p. 220.
Distillation, Utilizing waste heat of. F. Shuman. No. 992,814; May 23; Sp. p. 4245; Gaz. vol. 166; p. 783.
Distilling. A. G. Waterhouse. No. 991,570; May 9; Sp. p. 1599; Gaz. vol. 166; p. 295.
Distilling and rectifying apparatus, Device for automatically regulating the flow of the head products or other condensation products proceeding from. E. Guillaume. No. 994,672; June 6; Sp. p. 1208; Gaz. vol. 167; p. 197.
Distilling and refining apparatus, Oil. J. S. Cosden. No. 981,176; Jan. 10; Sp. p. 2278; Gaz. vol. 162; p. 376.
Distilling apparatus. T. B. Gautier. No. 980,509; Jan. 3; Sp. p. 728; Gaz. vol. 162; p. 117.
Distilling apparatus. A. G. Waterhouse. No. 989,672; Apr. 18; Sp. p. 2966; Gaz. vol. 165; p. 522.
Distilling apparatus. H. Hirzel. No. 991,205; May 2; Sp. p. 805; Gaz. vol. 166; p. 137.
Distilling apparatus. W. S. Simpson. No. 1,008,869; Nov. 14; Sp. p. 2772; Gaz. vol. 172; p. 467.
Distilling apparatus, Water-. J. D. Bennehoff. No. 1,011,016; Dec. 5; Sp. p. 1345; Gaz. vol. 173; p. 214.
Distilling apparatus, Wood-. T. A. Dungan. No. 1,007,341; Oct. 31; Sp. p. 6131; Gaz. vol. 171; p. 1118.
Distilling oils of the petroleum, tar, and like industries using a high vacuum, Apparatus for. L. Steinschneider. No. 981,953; Jan. 17; Sp. p. 4003; Gaz. vol. 162; p. 667.
Distilling shale and other bituminous substances, Apparatus for. J. Noad. No. 985,053; Feb. 21; Sp. p. 3843; Gaz. vol. 163; p. 678.
Distributing-machine. N. Meronek. No. 998,107; July 18; Sp. p. 3280; Gaz. vol. 168; p. 591.
Distribution system. J. J. Frank. No. 1,010,420; Dec. 5; Sp. p. 34; Gaz. vol. 173; p. 8.
Distribution system. G. B. Schley. No. 1,010,961; Dec. 5; Sp. p. 1237; Gaz. vol. 173; p. 196.
Distribution systems, Protective device for. R. M. Ostermann. No. 1,000,934; Aug. 15; Sp. p. 3693; Gaz. vol. 169; p. 662.
Ditch fish-screen. A. J. Collar. No. 991,700; May 9; Sp. p. 1893; Gaz. vol. 166; p. 342.
Ditch-gate. A. J. Collar. No. 981,171; Jan. 10; Sp. p. 2270; Gaz. vol. 162; p. 375.
Ditch-gate. A. J. Collar. No. 1,011,120; Dec. 5; Sp. p. 1581; Gaz. vol. 173; p. 250.
Ditch-making machine. M. H. Blanchard. No. 1,012,189; Dec. 19; Sp. p. 4036; Gaz. vol. 173; p. 695.
Ditcher and grader. R. E. Haynes. No. 994,746; June 13; Sp. p. 1420; Gaz. vol. 167; p. 263.
Ditching and grading machine. J. D. Martin. No. 987,476; Mar. 21; Sp. p. 3629; Gaz. vol. 164; p. 646.
Ditching apparatus. J. E. Wyckoff. No. 987,937; Mar. 28; Sp. p. 4655; Gaz. vol. 164; p. 834.
Ditching-machine. H. Matthies. No. 987,249; Mar. 21; Sp. p. 3147; Gaz. vol. 164; p. 570.
Ditching-machine. S. Miller. No. 989,861; Apr. 18; Sp. p. 3366; Gaz. vol. 165; p. 587.
Ditching-machine. H. G. Francis. No. 992,866; May 23; Sp. p. 4370; Gaz. vol. 166; p. 803.
Ditching-machine. O. C. Parks. No. 994,781; June 13; Sp. p. 1496; Gaz. vol. 167; p. 275.
Ditching-machine. F. W. Umbreit. No. 1,000,309; Aug. 8; Sp. p. 2308; Gaz. vol. 169; p. 410.
Ditching-machine. B. Bowman. No. 1,003,028; Sept. 12; Sp. p. 1875; Gaz. vol. 170; p. 323.
Ditching-machine. D. M. Hartsough. No. 1,003,046; Sept. 12; Sp. p. 1908; Gaz. vol. 170; p. 329.
Ditching-machine. N. F. Chamberlin. No. 1,008,114; Nov. 7; Sp. p. 1003; Gaz. vol. 172; p. 162.
Ditching-machine. D. G. Woods. No. 1,008,765; Nov. 14; Sp. p. 2572; Gaz. vol. 172; p. 432.
Ditching, pipe-laying, and irrigating apparatus. W. T. Lilly. No. 996,866; July 4; Sp. p. 555; Gaz. vol. 168; p. 91.
Divan or couch. O. R. Mitchell. No. 985,749; Feb. 28; Sp. p. 5425; Gaz. vol. 163; p. 951.
Divers, Means for holding and conveying air-tubes and electric conductors to submarine. C. E. Macduffee. No. 989,532; Apr. 11; Sp. p. 2641; Gaz. vol. 165; p. 443.
Diving apparatus or the like. H. P. Kraft and M. C. Schweinert. No. 990,818; Apr. 25; Sp. p. 5498; Gaz. vol. 165; p. 947.

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Diving apparatus, Submarine. C. E. Macduffee. No. 989,534; Apr. 11; Sp. p. 2644; Gaz. vol. 165; p. 444.
Diving apparatus, Valve for use with submarine. C. E. Macduffee. No. 989,533; Apr. 11; Sp. p. 2642; Gaz. vol. 165; p. 444.
Diving-helmet. A. Cypra. No. 1,000,721; Aug. 15; Sp. p. 3249; Gaz. vol. 169; p. 587.
Diving-suit attachment. E. B. Petrie. No. 984,104; Feb. 14; Sp. p. 1854; Gaz. vol. 163; p. 318.
Dividers and center-punch, Combined. H. O'Leary. No. 1,009,256; Nov. 21; Sp. p. 3643; Gaz. vol. 172; p. 636.
Dividers, Folding pocket-. M. E. Smith. No. 1,007,807; Nov. 7; Sp. p. 358; Gaz. vol. 172; p. 56.
Dividing-engine. W. B. Truitt. No. 997,522; July 11; Sp. p. 1913; Gaz. vol. 168; p. 343.
Divinyl, Producing. F. Hofmann and C. Coutelle. No. 1,005,217; Oct. 10; Sp. p. 1383; Gaz. vol. 171; p. 255.
Dock construction and method of constructing docks. E. D. Martin. No. 1,006,247; Oct. 17; Sp. p. 3706; Gaz. vol. 171; p. 652.
Dock, Dry-. H. W. Goodrich. No. 995,862; June 20; Sp. p. 3876; Gaz. vol. 167; p. 673.
Dock, Floating. H. Giese. No. 984,133; Feb. 14; Sp. p. 1907; Gaz. vol. 163; p. 327.
Dock, Floating. C. Laurenti. No. 998,970; July 25; Sp. p. 5218; Gaz. vol. 168; p. 929.
Doffer. H. D. Colman and B. A. Peterson. No. 983,858; Feb. 7; Sp. p. 1289; Gaz. vol. 163; p. 206.
Doffing-wire. P. J. Hinds and E. S. Ferris. No. 1,000,909; Aug. 15; Sp. p. 3641; Gaz. vol. 169; p. 654.
Doll. A. Cohen. No. 1,007,922; Nov. 7; Sp. p. 630; Gaz. vol. 172; p. 97.
Doll-frame. E. W. Bell. No. 1,002,363; Sept. 5; Sp. p. 433; Gaz. vol. 170; p. 60.
Doll, Rag. C. Sackman. No. 982,880; Jan. 31; Sp. p. 5945; Gaz. vol. 162; p. 1042.
Dolls' heads and limbs, Making. B. Goldenberg. No. 1,010,042; Nov. 28; Sp. p. 5302; Gaz. vol. 172; p. 950.
Door. J. Brunzwick and H. C. Ahrens. No. 981,527; Jan. 10; Sp. p. 3054; Gaz. vol. 162; p. 498.
Door. C. S. and M. A. Gurney. No. 989,702; Apr. 18; Sp. p. 3022; Gaz. vol. 165; p. 532.
Door. J. B. Hunter and C. H. Chambers. No. 1,011,958; Dec. 19; Sp. p. 3505; Gaz. vol. 173; p. 614.
Door-alarm, Electric. C. F. Bobo. No. 1,012,590; Dec. 26; Sp. p. 4861; Gaz. vol. 173; p. 876.
Door and the like structure, Metallic. H. F. Parish. No. 1,003,784; Sept. 19; Sp. p. 3485; Gaz. vol. 170; p. 620.
Door and window. A. Wolff. No. 983,794; Feb. 7; Sp. p. 1150; Gaz. vol. 163; p. 184.
Door and window guard. H. H. Ashlock. No. 1,000,977; Aug. 22; Sp. p. 3808; Gaz. vol. 169; p. 710.
Door apparatus, Safety N. Girrens. No. 986,816; Mar. 14; Sp. p. 2253; Gaz. vol. 164; p. 390.
Door, Automatic. L. R. Livingston. No. 999,116; July 25; Sp. p. 5495; Gaz. vol. 168; p. 978.
Door-bolt. F. J. Moran. No. 984,959; Feb. 21; Sp. p. 3661; Gaz. vol. 163; p. 646.
Door-bolt. T. K. Worthington. No. 1,000,222; Aug. 8; Sp. p. 2138; Gaz. vol. 169; p. 380.
Door-bolt. M. V. Crowe. No. 1,010,482; Dec. 5; Sp. p. 184; Gaz. vol. 173; p. 30.
Door bolt mechanism, Safety exit-. F. Nevins and W. B. Morewood. No. 1,007,306; Oct. 31; Sp. p. 6058; Gaz. vol. 171; p. 1105.
Door-bolt socket. S. B. Varner. No. 1,005,906; Oct. 17; Sp. p. 2929; Gaz. vol. 171; p. 531.
Door-brace. F. J. Lee. No. 985,184; Feb. 28; Sp. p. 4169; Gaz. vol. 163; p. 758.
Door-brace. F. J. Lee. No. 1,008,346; Nov. 14; Sp. p. 1555; Gaz. vol. 172; p. 284.
Door brace, Screen-. W. J. Forest and C. M. Jacobs. No. 980,507; Jan. 3; Sp. p. 726; Gaz. vol. 162; p. 116.
Door bracket, Burglar-proof side-. J. J. Acker. No. 982,341; Jan. 24; Sp. p. 4789; Gaz. vol. 162; p. 829.
Door, Building and car. E. C. Schroeder. No. 998,207; July 18; Sp. p. 3474; Gaz. vol. 168; p. 626.
Door-casing clamp. H. MacKenzie. No. 990,209; Apr. 18; Sp. p. 4093; Gaz. vol. 165; p. 704.
Door-catch, Automatic. E. L. Watrous. No. 998,138; July 18; Sp. p. 3343; Gaz. vol. 168; p. 602.
Door catch, Screen-. R. G. Winter. No. 1,008,098; Nov. 7; Sp. p. 968; Gaz. vol. 172; p. 156.
Door, Cellar-. C. M. Gullickson. No. 991,976; May 9; Sp. p. 2437; Gaz. vol. 166; p. 433.
Door, Cellar-. J. F. Seyler and N. H. Dunkle. No. 1,009,104; Nov. 21; Sp. p. 3290; Gaz. vol. 172; p. 582.
Door-check. J. and J. W. H. Rees. No. 981,473; Jan. 10; Sp. p. 2958; Gaz. vol. 162; p. 480.
Door-check. L. E. Hanson. No. 982,136; Jan. 17; Sp. p. 4358; Gaz. vol. 162; p. 728.
Door-check. H. Wilcox. No. 984,118; Feb. 14; Sp. p. 1879; Gaz. vol. 163; p. 322.
Door-check. L. P. Spangler. No. 984,612; Feb. 21; Sp. p. 2963; Gaz. vol. 163; p. 526.
Door-check. H. K. Fairall. No. 987,289; Mar. 21; Sp. p. 3234; Gaz. vol. 164; p. 583.
Door-check. J. H. Young. No. 987,529; Mar. 21; Sp. p. 3715; Gaz. vol. 164; p. 664.
Door-check. G. E. Hassmann. No. 990,552; Apr. 25; Sp. p. 4916; Gaz. vol. 165; p. 858.
Door-check. A. Stefhan. No. 992,996; May 23; Sp. p. 4648; Gaz. vol. 166; p. 848.
Door-check. A. Danielson. No. 995,665; June 20; Sp. p. 3430; Gaz. vol. 167; p. 604.
Door-check. G. J. Winter. No. 995,831; June 20; Sp. p. 3802; Gaz. vol. 167; p. 662.
Door-check. J. M. Martin. No. 998,584; July 18; Sp. p. 4305; Gaz. vol. 168; p. 760.
Door-check. W. T. Adams. No. 998,732; July 25; Sp. p. 4663; Gaz. vol. 168; p. 845.
Door-check. J. Schmidt. No. 999,598; Aug. 1; Sp. p. 793; Gaz. vol. 169; p. 138.
Door-check. J. L. Spoon. No. 1,002,328; Sept. 5; Sp. p. 334; Gaz. vol. 170; p. 47.
Door-check. J. C. Regan. No. 1,003,651; Sept. 19; Sp. p. 3191; Gaz. vol. 170; p. 575.
Door-check. J. C. Regan. No. 1,003,653; Sept. 19; Sp. p. 3194; Gaz. vol. 170; p. 576.
Door-check. E. J. Kyle. No. 1,006,234; Oct. 17; Sp. p. 3670; Gaz. vol. 171; p. 647.
Door check and catch, Combined. R. Wilson. No. 1,009,876; Nov. 28; Sp. p. 4949; Gaz. vol. 172; p. 894.
Door check and closer. J. C. Regan. No. 991,371; May 2; Sp. p. 1168; Gaz. vol. 166; p. 194.
Door check and closer. R. E. Adam. No. 996,389; June 27; Sp. p. 5049; Gaz. vol. 167; p. 889.
Door check and closer. J. C. Regan. No. 999,522; Aug. 1; Sp. p. 653; Gaz. vol. 169; p. 112.
Door check and closer. J. C. Regan. No. 1,003,652; Sept. 19; Sp. p. 3192; Gaz. vol. 170; p. 575.
Door check and closer, Combined. A. F. Bardwell. No. 999,542; Aug. 1; Sp. p. 694; Gaz. vol. 169; p. 119.
Door-check, Double-acting. J. C. Regan. No. 980,836; Jan. 3; Sp. p. 1406; Gaz. vol. 162; p. 225.
Door checks and closers, Door-stop for. W. K. Henry. No. 986,710; Mar. 14; Sp. p. 2023; Gaz. vol. 164; p. 355.
Door-checks, Valve mechanism for. C. B. Bishop. No. 995,217; June 13; Sp. p. 2420; Gaz. vol. 167; p. 419.
Door-clamps, Attachment for. F. W. Lane. No. 992,008; May 9; Sp. p. 2492; Gaz. vol. 166; p. 443.
Door-closer. R. E. Adam. No. 997,432; July 11; Sp. p. 1736; Gaz. vol. 168; p. 315.
Door closer and check. A. J. Rosentreter. No. 980,342; Jan. 3; Sp. p. 324; Gaz. vol. 162; p. 58.
Door closer and check. A. Proven. No. 991,889; May 9; Sp. p. 2262; Gaz. vol. 166; p. 403.
Door closer and check for doors, Combined. F. Brucker. No. 1,007,523; Oct. 31; Sp. p. 6533; Gaz. vol. 171; p. 1181.
Door-closing apparatus. W. Duggen, Jr. No. 1,001,372; Aug. 22; Sp. p. 4684; Gaz. vol. 169; p. 845.
Door-closing device. J. P. Bair. No. 995,212; June 13; Sp. p. 2410; Gaz. vol. 167; p. 418.
Door, Cold-storage-room. E. J. Wirfs. No. 987,526; Mar. 21; Sp. p. 3711; Gaz. vol. 164; p. 663.
Door, Collapsible. H. Hedwall. No. 1,012,849; Dec. 26; Sp. p. 5463; Gaz. vol. 173; p. 967.
Door construction. W. E. Snaman. No. 997,099; July 4; Sp. p. 1063; Gaz. vol. 168; p. 172.
Door construction, Cellar-. H. C. Seipp. No. 984,034; Feb. 14; Sp. p. 1711; Gaz. vol. 163; p. 294.
Door construction, Metal-. E. Ohnstrand. No. 981,875; Jan. 17; Sp. p. 3782; Gaz. vol. 162; p. 639.
Door construction, Metal-. F. E. Nelson. No. 993,457; May 30; Sp. p. 5637; Gaz. vol. 166; p. 1032.
Door construction, Sheet-metal-. H. C. Lindros. No. 985,912; Mar. 7; Sp. p. 332; Gaz. vol. 164; p. 53.
Door construction, Sliding-. V. F. Outland. No. 1,004,299; Sept. 26; Sp. p. 4663; Gaz. vol. 170; p. 825.
Door construction, Sliding-. J. R. Hussey. No. 1,006,946; Oct. 24; Sp. p. 5265; Gaz. vol. 171; p. 926.
Door-control devices, Cushion mechanism for pneumatic. H. Rowntree. No. 1,001,988; Aug. 29; Sp. p. 5983; Gaz. vol. 169; p. 1083.
Door, Convertible screen-. M. Miller. No. 991,527; May 9; Sp. p. 1494; Gaz. vol. 166; p. 279.
Door, Counterbalanced. O. C. Fosselman. No. 1,012,834; Dec. 26; Sp. p. 5417; Gaz. vol. 173; p. 961.
Door crape-holder. H. T. Loomis. No. 995,472; June 20; Sp. p. 2997; Gaz. vol. 167; p. 535.
Door-fastener. H. Kappele. No. 986,465; Mar. 14; Sp. p. 1500; Gaz. vol. 164; p. 270.
Door-fastener. F. J. Lee. No. 987,894; Mar. 28; Sp. p. 4538; Gaz. vol. 164; p. 818.
Door-fastener. J. E. Minor. No. 991,344; May 2; Sp. p. 1111; Gaz. vol. 166; p. 185.
Door-fastener. A. Shedlock. No. 991,551; May 9; Sp. p. 1560; Gaz. vol. 166; p. 288.
Door fastener, Emergency-exit-. W. H. Hart and J. P. Holtzhouser. No. 1,008,463; Nov. 14; Sp. p. 1907; Gaz. vol. 172; p. 326.
Door fastener, Sliding-. W. F. Hackney. No. 997,805; July 11; Sp. p. 2586; Gaz. vol. 168; p. 444.
Door fastener, Sliding-. G. Homan. No. 1,004,262; Sept. 26; Sp. p. 4597; Gaz. vol. 170; p. 813.
Door-fastening device. L. A. Day. No. 980,498; Jan. 3; Sp. p. 698; Gaz. vol. 162; p. 113.
Door-fastening device. F. L. Van Dusen. No. 1,002,340; Sept. 5; Sp. p. 372; Gaz. vol. 170; p. 52.

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Door-fastening device. R. A. Moore. No. 1,002,812; Sept. 5; Sp. p. 1388; Gaz. vol. 170; p. 212.
Door-fastening device, Emergency-exit-. H. Pincus. No. 982,388; Jan. 24; Sp. p. 4890; Gaz. vol. 162; p. 847.
Door, Folding. C. H. Anderson. No. 992,532; May 16; Sp. p. 3659; Gaz. vol. 166; p. 657.
Door, Folding. S. Ranley and J. A. Schirack. No. 1,008,367; Nov. 14; Sp. p. 1632; Gaz. vol. 172; p. 292.
Door for street-cars or other purposes, Divided. J. B. Burdett. No. 1,002,031; Aug. 29; Sp. p. 6063; Gaz. vol. 169; p. 1097.
Door-frame, Metal. E. Ohnstrand. No. 981,937; Jan. 17; Sp. p. 3962; Gaz. vol. 162; p. 662.
Door-gage. C. E. Rose. No. 1,004,471; Sept. 26; Sp. p. 5019; Gaz. vol. 170; p. 883.
Door, Grain-. W. H. Fisher. No. 982,261; Jan. 24; Sp. p. 4613; Gaz. vol. 162; p. 801.
Door, Grain-. J. Henry. No. 984,917; Feb. 21; Sp. p. 3582; Gaz. vol. 163; p. 632.
Door, Grain-. J. Oliver. No. 986,746; Mar. 14; Sp. p. 2094; Gaz. vol. 164; p. 366.
Door, Grain-. A. G. Christopherson. No. 991,274; May 2; Sp. p. 959; Gaz. vol. 166; p. 161.
Door, Grain-. P. A. Aurness. No. 996,961; July 4; Sp. p. 759; Gaz. vol. 168; p. 124.
Door, Grain-. O. Macfarlane. No. 1,001,871; Aug. 29; Sp. p. 5717; Gaz. vol. 169; p. 1045.
Door, Grain-. O. Carlson. No. 1,005,510; Oct. 10; Sp. p. 2047; Gaz. vol. 171; p. 360.
Door, Grain-. C. A. Bell. No. 1,009,128; Nov. 21; Sp. p. 3336; Gaz. vol. 172; p. 590.
Door, Grain-bin. V. W. Jansen. No. 1,010,431; Dec. 5; Sp. p. 57; Gaz. vol. 173; p. 12.
Door-hanger. I. W. Davis. No. 982,257; Jan. 24; Sp. p. 4604; Gaz. vol. 162; p. 799.
Door-hanger. F. W. S. Elstroth. No. 990,243; Apr. 25; Sp. p. 4200; Gaz. vol. 165; p. 749.
Door-hanger. E. P. Golden. No. 996,481; June 27; Sp. p. 5251; Gaz. vol. 167; p. 921.
Door-hanger. M. Cossey. No. 1,002,902; Sept. 12; Sp. p. 1626; Gaz. vol. 170; p. 281.
Door-hanger. G. H. Knight. No. 1,003,274; Sept. 12; Sp. p. 2399; Gaz. vol. 170; p. 412.
Door-hanger. B. R. Bonney and O. A. Brown. No. 1,004,140; Sept. 26; Sp. p. 4340; Gaz. vol. 170; p. 771.
Door-hanger. J. F. Murphy. No. 1,005,281; Oct. 10; Sp. p. 1549; Gaz. vol. 171; p. 279.
Door-hanger. W. R. Munden and L. J. Bosworth. No. 1,007,228; Oct. 31; Sp. p. 5907; Gaz. vol. 171; p. 1078.
Door hanger and track. R. Minshull. No. 1,010,781; Dec. 5; Sp. p. 858; Gaz. vol. 173; p. 134.
Door hanger and track, Combined. W. E. Schadel. No. 984,110; Feb. 14; Sp. p. 1863; Gaz. vol. 163; p. 320.
Door hanger and track, Combined. A. E. Rupp. No. 989,646; Apr. 18; Sp. p. 2911; Gaz. vol. 165; p. 513.
Door-hanger and track for edgewise-movable doors, Combined. W. H. Cole. No. 1,004,746; Oct. 3; Sp. p. 430; Gaz. vol. 171; p. 72.
Door hanger, Sliding-. E. P. Golden. No. 1,001,586; Aug. 22; Sp. p. 5078; Gaz. vol. 169; p. 915.
Door-hanger track. P. Frantz. No. 993,161; May 23; Sp. p. 4995; Gaz. vol. 166; p. 903.
Door-hanger track. H. L. Ferris. No. 994,448; June 6; Sp. p. 712; Gaz. vol. 167; p. 122.
Door-holder. F. J. Lee. No. 985,185; Feb. 28; Sp. p. 4171; Gaz. vol. 163; p. 759.
Door-holder. F. H. Nett. No. 994,776; June 13; Sp. p. 1490; Gaz. vol. 167; p. 273.
Door-holder. T. C. Dukes. No. 999,017; July 25; Sp. p. 5317; Gaz. vol. 168; p. 946.
Door-holder for door-closers. H. G. Voight. No. 1,011,287; Dec. 12; Sp. p. 2008; Gaz. vol. 173; p. 345.
Door-holding means. A. L. Bell and F. J. Ebert. No. 989,108; Apr. 11; Sp. p. 1717; Gaz. vol. 165; p. 299.
Door-jack. A. W. Pingrey. No. 985,630; Feb. 28; Sp. p. 5151; Gaz. vol. 163; p. 910.
Door-jamb, Metallic. C. Dahlstrom. No. 985,886; Mar. 7; Sp. p. 274; Gaz. vol. 164; p. 44.
Door-jamb setter. F. Scelza. No. 1,003,517; Sept. 19; Sp. p. 2885; Gaz. vol. 170; p. 527.
Door-lock. J. A. McLain and H. A. Brooks. No. 981,099; Jan. 10; Sp. p. 2107; Gaz. vol. 162; p. 348.
Door-lock. H. L. Dougherty. No. 982,766; Jan. 24; Sp. p. 5679; Gaz. vol. 162; p. 973.
Door-lock. A. Arens and E. L. Teich. No. 983,667; Feb. 7; Sp. p. 890; Gaz. vol. 163; p. 141.
Door-lock. R. L. Sweger. No. 985,224; Feb. 28; Sp. p. 4262; Gaz. vol. 163; p. 772.
Door-lock. F. B. Stephenson. No. 996,292; June 27; Sp. p. 4816; Gaz. vol. 167; p. 854.
Door-lock. A. Lee. No. 1,000,527; Aug. 15; Sp. p. 2803; Gaz. vol. 169; p. 517.
Door-lock. N. Triantafilu. No. 1,002,097; Aug. 29; Sp. p. 6181; Gaz. vol. 169; p. 1118.
Door-lock. F. Monas. No. 1,006,971; Oct. 24; Sp. p. 5313; Gaz. vol. 171; p. 934.
Door-lock. W. Gerwien. No. 1,007,859; Nov. 7; Sp. p. 496; Gaz. vol. 172; p. 74.
Door-lock, Automatic safety. J. W. Hulme. No. 990,877; May 2; Sp. p. 109; Gaz. vol. 166; p. 20.
Door lock, Emergency-exit-. P. W. Hodgkinson. No. 990,358; Apr. 25; Sp. p. 4453; Gaz. vol. 165; p. 788.
Door-lock, Recording. L. C. Bush and J. F. Cole. No. 981,164; Jan. 10; Sp. p. 2250; Gaz. vol. 162; p. 372.
Door-lock, Recording. W. H. Muzzy. No. 1,010,675; Dec. 5; Sp. p. 601; Gaz. vol. 173; p. 96.
Door lock, Screen-. J. N. Hermon. No. 1,006,211; Oct. 17; Sp. p. 3629; Gaz. vol. 171; p. 638.
Door lock, Sliding-. G. M. Blair. No. 984,468; Feb. 14; Sp. p. 2610; Gaz. vol. 163; p. 441.
Door lock, Sliding-. C. F. Ritchel. No. 991,890; May 9; Sp. p. 2264; Gaz. vol. 166; p. 404.
Door lock, Sliding-. D. Campbell. No. 1,010,855; Dec. 5; Sp. p. 1023; Gaz. vol. 173; p. 159.
Door-locking device, Emergency-exit-. H. G. Voight. No. 983,011; Jan. 31; Sp. p. 6235; Gaz. vol. 162; p. 1085.
Door-locking device, Emergency-exit-. O. Kublanck. No. 990,750; Apr. 25; Sp. p. 5352; Gaz. vol. 165; p. 924.
Door locking device, Safe and vault. H. C. Hunter. No. 995,007; June 13; Sp. p. 2008; Gaz. vol. 167; p. 352.
Door-locking mechanism. T. P. Shean. No. 998,642; July 25; Sp. p. 4446; Gaz. vol. 168; p. 813.
Door-locking mechanism, Cell-. J. H. Van Dorn. No. 981,037; Jan. 10; Sp. p. 1980; Gaz. vol. 162; p. 326.
Door-locking mechanism, Emergency-exit-. C. J. Ericson. No. 980,229; Jan. 3; Sp. p. 99; Gaz. vol. 162; p. 20.
Door-locking mechanism, Emergency-exit-. E. A. Freed. No. 992,554; May 16; Sp. p. 3717; Gaz. vol. 166; p. 665.
Door-mat. S. Skowronski and W. J. Parks. No. 1,008,618; Nov. 14; Sp. p. 2245; Gaz. vol. 172; p. 382.
Door mechanism, Prison-cell-. D. B. Van Dorn and J. T. Whitehouse. No. 1,007,316; Oct. 31; Sp. p. 6080; Gaz. vol. 171; p. 1109.
Door, Metal. R. D. Mayo. No. 990,151; Apr. 18; Sp. p. 3967; Gaz. vol. 165; p. 684.
Door, Metallic. C. M. Sinclair. No. 1,001,315; Aug. 22; Sp. p. 4560; Gaz. vol. 169; p. 825.
Door-motor. J. F. McElroy. No. 1,002,596; Sept. 5; Sp. p. 923; Gaz. vol. 170; p. 138.
Door-motor controller. J. F. McElroy. No. 994,021; May 30; Sp. p. 6832; Gaz. vol. 166; p. 1226.
Door-opener. D. W. Witham. No. 984,458; Feb. 14; Sp. p. 2591; Gaz. vol. 163; p. 438.
Door-opener. W. C. Miles. No. 1,005,054; Oct. 3; Sp. p. 1052; Gaz. vol. 171; p. 176.
Door opening and closing device. M. H. Hart. No. 988,265; Mar. 28; Sp. p. 5319; Gaz. vol. 164; p. 941.
Door-opening device. G. B. Clay. No. 998,324; July 18; Sp. p. 3777; Gaz. vol. 168; p. 671.
Door-operating device. T. P. Lallance. No. 992,781; May 23; Sp. p. 4176; Gaz. vol. 166; p. 771.
Door-operating device. C. Alter. No. 993,941; May 30; Sp. p. 6660; Gaz. vol. 166; p. 1199.
Door-operating devices, Cushioning mechanism for. P. R. Forman. No. 1,001,943; Aug. 29; Sp. p. 5885; Gaz. vol. 169; p. 1068.
Door-operating mechanism. J. F. Streib. No. 998,929; July 25; Sp. p. 5099; Gaz. vol. 168; p. 915.
Door-operating mechanism. F. Seaberg. No. 1,000,443; Aug. 15; Sp. p. 2626; Gaz. vol. 169; p. 488.
Door-operating mechanism. F. Seaberg. No. 1,000,555; Aug. 15; Sp. p. 2877; Gaz. vol. 169; p. 528.
Door-operating mechanism. W. S. Cumming. No. 1,000,784; Aug. 15; Sp. p. 3393; Gaz. vol. 169; p. 610.
Door-operating mechanism. P. R. Forman. No. 1,001,944; Aug. 29; Sp. p. 5888; Gaz. vol. 169; p. 1068.
Door-operating mechanism. H. Rowntree. No. 1,001,989; Aug. 29; Sp. p. 5985; Gaz. vol. 169; p. 1083.
Door-operating mechanism. T. R. Brown. No. 1,002,030; Aug. 29; Sp. p. 6060; Gaz. vol. 169; p. 1096.
Door-operating mechanism. H. Rowntree. No. 1,002,180; Aug. 29; Sp. p. 6332; Gaz. vol. 169; p. 1144.
Door-operating mechanism. W. H. Yost. No. 1,003,574; Sept. 19; Sp. p. 3037; Gaz. vol. 170; p. 548.
Door-operating mechanism, Dump-. F. Seaberg. No. 992,607; May 16; Sp. p. 3831; Gaz. vol. 166; p. 683.
Door-operating mechanism, Dumping-. J. O. Neikirk. No. 1,010,167; Nov. 28; Sp. p. 5540; Gaz. vol. 172; p. 992.
Door-operating mechanism, Pneumatic. P. R. Forman. No. 1,001,942; Aug. 29; Sp. p. 5882; Gaz. vol. 169; p. 1067.
Door-operating mechanism, Pneumatic. T. R. Brown. No. 1,002,027; Aug. 29; Sp. p. 6053; Gaz. vol. 169; p. 1095.
Door-operating mechanism, Pneumatic. T. R. Brown. No. 1,002,028; Aug. 29; Sp. p. 6055; Gaz. vol. 169; p. 1095.
Door-operating mechanism, Pneumatic. T. R. Brown. No. 1,002,029; Aug. 29; Sp. p. 6057; Gaz. vol. 169; p. 1096.
Door-operating mechanism, Pneumatic. T. R. Brown. No. 1,002,195; Aug. 29; Sp. p. 6382; Gaz. vol. 169; p. 1150.
Door or shutter, Self-closing. H. T. Moody. No. 981,460; Jan. 10; Sp. p. 2933; Gaz. vol. 162; p. 475.
Door or wall of sheet metal. P. M. Wege. No. 993,483; May 30; Sp. p. 5695; Gaz. vol. 166; p. 1042.
Door pintle-socket. J. C. Regan. No. 982,160; Jan. 17; Sp. p. 4396; Gaz. vol. 162; p. 736.
Door-releaser, Fire-engine-house. C. O. Carter. No. 985,142; Feb. 28; Sp. p. 4041; Gaz. vol. 163; p. 743.
Door-releasing device. H. C. Bundy. No. 981,913; Jan. 17; Sp. p. 3885; Gaz. vol. 162; p. 653.

Alphabetical list of inventions—Continued.

Door, Revolving-. F. Clymer. No. 990,227; Apr. 25; Sp. p. 4147; Gaz. vol. 165; p. 742.
Door roller, Sliding-. N. Klotz. No. 988,880; Apr. 4; Sp. p. 1241; Gaz. vol. 165; p. 198.
Door, Sectional folding. J. Rashkin. No. 990,589; Apr. 25; Sp. p. 4990; Gaz. vol. 165; p. 870.
Door-securer. G. W. Packard. No. 982,017; Jan. 17; Sp. p. 4131; Gaz. vol. 162; p. 689.
Door-securer. R. O. Hammond. No. 983,136; Jan. 31; Sp. p. 6480; Gaz. vol. 162; p. 1127.
Door-securer. J. W. Gavin. No. 996,847; July 4; Sp. p. 508; Gaz. vol. 168; p. 84.
Door, Sheet-metal. J. F. Weitzel. No. 999,533; Aug. 1; Sp. p. 671; Gaz. vol. 169; p. 115.
Door, Sheet-metal. N. P. Sjobring. No. 1,003,070; Sept. 12; Sp. p. 1948; Gaz. vol. 170; p. 337.
Door-signal. R. F. Davis. No. 984,124; Feb. 14; Sp. p. 1889; Gaz. vol. 163; p. 324.
Door-signal. L. L. Bories. No. 1,003,867; Sept. 19; Sp. p. 3644; Gaz. vol. 170; p. 648.
Door sill or saddle, Adjustable. J. N. Barber. No. 991,597; May 9; Sp. p. 1660; Gaz. vol. 166; p. 305.
Door, Silo-. G. W. Reese. No. 993,873; May 30; Sp. p. 6531; Gaz. vol. 166; p. 1177.
Door, Sliding. W. H. Danner. No. 989,488; Apr. 11; Sp. p. 2521; Gaz. vol. 165; p. 426.
Door, Sound-proof. I. Hamlin. No. 1,005,114; Oct. 3; Sp. p. 1156; Gaz. vol. 171; p. 195.
Door-spring. A. G. Potter. No. 1,010,071; Nov. 28; Sp. p. 5363; Gaz. vol. 172; p. 961.
Door-stop. J. Johnson. No. 988,105; Mar. 28; Sp. p. 5022; Gaz. vol. 164; p. 891.
Door-stop. H. G. Voight. No. 991,674; May 9; Sp. p. 1844; Gaz. vol. 166; p. 333.
Door-stop. B. F. Fowler. No. 993,357; May 30; Sp. p. 5413; Gaz. vol. 166; p. 1000.
Door-stop. J. T. Kent. No. 998,693; July 25; Sp. p. 4560; Gaz. vol. 168; p. 830.
Door-stop. R. H. Lange and W. C. Knebelkamp. No. 1,005,849; Oct. 17; Sp. p. 2806; Gaz. vol. 171; p. 510.
Door-stop. H. G. Voight. No. 1,010,541; Dec. 5; Sp. p. 309; Gaz. vol. 173; p. 49.
Door-stop, Adjustable. W. K. Henry. No. 987,722; Mar. 28; Sp. p. 4152; Gaz. vol. 164; p. 759.
Door stop and retainer. O. A. Fairchild. No. 1,013,006; Dec. 26; Sp. p. 5827; Gaz. vol. 173; p. 1019.
Door structure, Revolving-. W. S. Ely. No. 1,007,025; Oct. 24; Sp. p. 5422; Gaz. vol. 171; p. 951.
Door-support. R. A. Shepard. No. 1,000,302; Aug. 8; Sp. p. 2299; Gaz. vol. 169; p. 408.
Door-supporting structure. T. V. Plice. No. 992,588; May 16; Sp. p. 3794; Gaz. vol. 166; p. 677.
Door-sustaining means, Sliding-. T. C. Prouty. No. 1,008,987; Nov. 14; Sp. p. 3027; Gaz. vol. 172; p. 504.
Door-sustaining means, Sliding-. T. C. Prouty. No. 1,008,988; Nov. 14; Sp. p. 3032; Gaz. vol. 172; p. 504.
Door-sustaining means, Sliding-. T. C. Prouty. No. 1,008,989; Nov. 14; Sp. p. 3034; Gaz. vol. 172; p. 505.
Door-sustaining means, Sliding-. T. C. Prouty. No. 1,008,990; Nov. 14; Sp. p. 3036; Gaz. vol. 172; p. 505.
Door track and hanger. G. J. Hatz. No. 995,673; June 20; Sp. p. 3447; Gaz. vol. 167; p. 607.
Door, Treadle-. J. T. Mayer. No. 992,790; May 23; Sp. p. 4190; Gaz. vol. 166; p. 774.
Doors, Burglar-proof attachment for. G. Hensle. No. 1,010,365; Nov. 28; Sp. p. 5945; Gaz. vol. 172; p. 1057.
Doors, Draft-excluding means for. C. M. Ackerman. No. 1,009,879; Nov. 28; Sp. p. 4958; Gaz. vol. 172; p. 895.
Doors, Fly-trap attachment for screen-. E. Orr. No. 985,626; Feb. 28; Sp. p. 5146; Gaz. vol. 163; p. 909.
Doors, Guide bracket or rail for edgewise-movable. J. M. Gray. No. 995,960; June 20; Sp. p. 4063; Gaz. vol. 167; p. 707.
Doors, Mounting for sliding. A. Voigt. No. 1,007,757; Nov. 7; Sp. p. 236; Gaz. vol. 172; p. 38.
Doors, Pivoting device for foldable revolving. E. C. Haviland. No. 1,010,627; Dec. 5; Sp. p. 513; Gaz. vol. 173; p. 80.
Doors, Safety mechanism for power-operated. H. Rowntree and P. R. Forman. No. 1,001,990; Aug. 29; Sp. p. 5988; Gaz. vol. 169; p. 1084.
Doors, Safety mechanism for power-operated. J. S. Doyle. No. 1,004,754; Oct. 3; Sp. p. 444; Gaz. vol. 171; p. 74.
Doors self-closing, Device for rendering. A. Zempliner. No. 1,009,125; Nov. 21; Sp. p. 3331; Gaz. vol. 172; p. 589.
Doors, Sliding. J. Fleischer. No. 987,123; Mar. 21; Sp. p. 2839; Gaz. vol. 164; p. 523.
Doors, windows, &c., Fastening device for. R. Randon. No. 982,633; Jan. 24; Sp. p. 5392; Gaz. vol. 162; p. 930.
Double brake. J. D. Ihlder. No. 1,011,200; Dec. 12; Sp. p. 1797; Gaz. vol. 173; p. 313.
Double-compression press. J. Leflaive. No. 1,000,823; Aug. 15; Sp. p. 3459; Gaz. vol. 169; p. 623.
Doubling or twisting machine yarn-guide. A. J. Hay. No. 981,082; Jan. 10; Sp. p. 2077; Gaz. vol. 162; p. 342.
Douche-pan attachment. N. E. Betsworth. No. 996,200; June 27; Sp. p. 4625; Gaz. vol. 167; p. 825.
Dough and pastry goods, Apparatus for drying. O. Wirz. No. 992,320; May 16; Sp. p. 3207; Gaz. vol. 166; p. 582.
Dough and the like, Machine for treating. E. T. Parsons. No. 990,383; Apr. 25; Sp. p. 4520; Gaz. vol. 165; p. 798.
Dough-brake. I. Raskin and J. Deretchin. No. 1,007,732; Nov. 7; Sp. p. 171; Gaz. vol. 172; p. 28.
Dough-conveying machine. O. Beier. No. 983,669; Feb. 7; Sp. p. 894; Gaz. vol. 163; p. 142.
Dough divider and scaler. C. A. Hultin. No. 987,231; Mar. 21; Sp. p. 3107; Gaz. vol. 164; p. 563.
Dough-dividing machine. F. Streich. No. 1,003,543; Sept. 19; Sp. p. 2943; Gaz. vol. 170; p. 537.
Dough-handing machine. R. J. F. and A. E. Aldred. No. 993,138; May 23; Sp. p. 4955; Gaz. vol. 166; p. 897.
Dough, &c., Machine for dividing. F. Zarth. No. 983,595; Feb. 7; Sp. p. 741; Gaz. vol. 163; p. 116.
Dough, Machine for forming rolls from. G. E. Ingraham. No. 1,007,207; Oct. 31; Sp. p. 5865; Gaz. vol. 171; p. 1070.
Dough-mixer. L. Blass. No. 1,003,422; Sept. 19; Sp. p. 2691; Gaz. vol. 170; p. 494.
Dough mixer and kneader. O. D. Woodruff. No. 984,728; Feb. 21; Sp. p. 3215; Gaz. vol. 163; p. 568.
Dough-mixing machine. C. Chambers, Jr. No. 1,005,769; Oct. 10; Sp. p. 2616; Gaz. vol. 171; p. 451.
Dough-mixing method and apparatus. J. C. Gordon. No. 995,345; June 13; Sp. p. 2706; Gaz. vol. 167; p. 463.
Dough-mixing method and apparatus. H. Gottschalk. No. 1,008,639; Nov. 14; Sp. p. 2306; Gaz. vol. 172; p. 390.
Dough-molding apparatus. G. S. Baker and J. Callow. No. 1,007,665; Nov. 7; Sp. p. 10; Gaz. vol. 172; p. 4.
Dough-molding machine. R. J. F. and A. E. Aldred. No. 984,521; Feb. 21; Sp. p. 2765; Gaz. vol. 163; p. 495.
Dough-molding machine. P. B. Streich. No. 986,413; Mar. 7; Sp. p. 1381; Gaz. vol. 164; p. 223.
Dough-molding machine. T. Masel. No. 1,005,566; Oct. 10; Sp. p. 2200; Gaz. vol. 171; p. 380.
Dough-pressing machines, Removable hopper for. J. A. Holmes. No. 997,554; July 11; Sp. p. 1980; Gaz. vol. 168; p. 354.
Dough-proofing apparatus and work-table, Combined. A. H. Piper. No. 990,003; Apr. 18; Sp. p. 3675; Gaz. vol. 165; p. 636.
Dough-raiser. W. H. White. No. 997,527; July 11; Sp. p. 1926; Gaz. vol. 168; p. 345.
Dough-raising apparatus. F. W. White and A. W. Fisher. No. 1,011,542; Dec. 12; Sp. p. 2573; Gaz. vol. 173; p. 436.
Dough-raising machine. J. Hollander. No. 992,501; May 16; Sp. p. 3595; Gaz. vol. 166; p. 645.
Dough-sheeting machine. J. J. Linden. No. 994,850; June 13; Sp. p. 1661; Gaz. vol. 167; p. 298.
Dough-treating mechanism. C. Laukhuff. No. 998,017; July 18; Sp. p. 3069; Gaz. vol. 168; p. 559.
Doughnut-lifter. J. A. Rund. No. 1,013,067; Dec. 26; Sp. p. 5942; Gaz. vol. 173; p. 1040.
Dowel and tongue-and-groove joint, Combination. A. E. Hourd. No. 991,722; May 9; Sp. p. 1939; Gaz. vol. 166; p. 348.
Dowel cutting and chamfering machine. C. E. Kuntz. No. 1,005,982; Oct. 17; Sp. p. 3104; Gaz. vol. 171; p. 558.
Dowel-cutting machine. M. Brochu, M. C. and A. L. H. Verwys. No. 992,845; May 23; Sp. p. 4314; Gaz. vol. 166; p. 794.
Dowel-joint. J. W. Cooper. No. 981,385; Jan. 10; Sp. p. 2764; Gaz. vol. 162; p. 449.
Downdraft-furnace. W. H. James. No. 981,275; Jan. 10; Sp. p. 2528; Gaz. vol. 162; p. 412.
Draft and buffing gear, Friction. T. H. Symington. No. 1,004,497; Sept. 26; Sp. p. 5068; Gaz. vol. 170; p. 892.
Draft and buffing members, Friction. I. Simpson. No. 1,009,696; Nov. 21; Sp. p. 4564; Gaz. vol. 172; p. 786.
Draft and smoke-consumer, Induced. D. Goff. No. 1,008,638; Nov. 14; Sp. p. 2302; Gaz. vol. 172; p. 389.
Draft and smoke-consuming system, Artificial-. J. W. Estes. No. 1,009,835; Nov. 28; Sp. p. 4879; Gaz. vol. 172; p. 881.
Draft apparatus, Force-. G. John. No. 985,415; Feb. 28; Sp. p. 4677; Gaz. vol. 163; p. 835.
Draft appliance. W. Tiernan and H. M. Schreiber. No. 1,009,267; Nov. 21; Sp. p. 3669; Gaz. vol. 172; p. 640.
Draft appliance. C. N. Sonnichsen. No. 1,009,350; Nov. 21; Sp. p. 3851; Gaz. vol. 172; p. 670.
Draft appliance. P. E. Waldvogel. No. 1,011,288; Dec. 12; Sp p. 2009; Gaz. vol. 173; p. 346.
Draft appliance. P. E. Waldvogel. No. 1,011,289; Dec. 12; Sp. p. 2011; Gaz. vol. 173; p. 346.
Draft appliance, Automatic balance-. G. C. G. Gray. No. 988,935; Apr. 4; Sp. p. 1346; Gaz. vol. 165; p. 216.
Draft attachment. J. W. Grove. No. 984,087; Feb. 14; Sp. p. 1823; Gaz. vol. 163; p. 314.
Draft attachment. H. J. Heider. No. 989,146; Apr. 11; Sp. p. 1792; Gaz. vol. 165; p. 312.
Draft connection for implements, Tandem. C. Pearson. No. 1,012,220; Dec. 19; Sp. p. 4113; Gaz. vol. 173; p. 705.
Draft-controlling device. H. J. Green. No. 995,251; June 13; Sp. p. 2490; Gaz. vol. 167; p. 431.
Draft device. H. B. Young. No. 986,339; Mar. 7; Sp. p. 1214; Gaz. vol. 164; p. 196.

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Draft device. W. Minor. No. 993,786; May 30; Sp. p. 6367; Gaz. vol. 166; p. 1148.
Draft-equalizer. J. J. White. No. 980,854; Jan. 3; Sp. p. 1437; Gaz. vol. 162; p. 231.
Draft-equalizer. M. S. Glover. No. 986,278; Mar. 7; Sp. p. 1087; Gaz. vol. 164; p. 174.
Draft-equalizer. H. E. Aastrom. No. 988,161; Mar. 28; Sp. p. 5122; Gaz. vol. 164; p. 908.
Draft-equalizer. J. M. Wright and C. M. East. No. 988,845; Apr. 4; Sp. p. 1176; Gaz. vol. 165; p. 188.
Draft-equalizer. F. W. Sutton. No. 994,618; June 6; Sp. p. 1070; Gaz. vol. 167; p. 178.
Draft-equalizer. J. Schenck. No. 997,859; July 11; Sp. p. 2692; Gaz. vol. 168; p. 462.
Draft-equalizer. H. C. Boss. No. 998,154; July 18; Sp. p. 3368; Gaz. vol. 168; p. 608.
Draft-equalizer. I. G. Tedder. No. 1,003,160; Sept. 12; Sp. p. 2148; Gaz. vol. 170; p. 369.
Draft-equalizer. H. D. Grant. No. 1,010,253; Nov. 28; Sp. p. 5707; Gaz. vol. 172; p. 1020.
Draft-equalizer. J. Langenfeld. No. 1,010,775; Dec. 5; Sp. p. 847; Gaz. vol. 173; p. 132.
Draft-equalizer. R. Prose. No. 1,012,435; Dec. 19; Sp. p. 4540; Gaz. vol. 173; p. 777.
Draft-evener. W. W. Swan. No. 984,246; Feb. 14; Sp. p. 2164; Gaz. vol. 163; p. 367.
Draft-gear. T. L. McKeen. No. 987,312; Mar. 21; Sp. p. 3292; Gaz. vol. 164; p. 591.
Draft-gear. J. F. Courson. No. 987,432; Mar. 21; Sp. p. 3531; Gaz. vol. 164; p. 631.
Draft-gear. W H. Cotton and T. D. Henderson. No. 989,949; Apr. 18; Sp. p. 3561; Gaz. vol. 165; p. 618.
Draft-gear. J. F. Courson. No. 990,708; Apr. 25; Sp. p. 5269; Gaz. vol. 165; p. 909.
Draft-gear. A. G. Marshall. No. 997,399; July 11; Sp. p. 1674; Gaz. vol. 168; p. 304.
Draft-gear. E. W. Webb. No. 1,004,511; Sept. 26; Sp. p. 5092; Gaz. vol. 170; p. 897.
Draft-gear. A. E. Noble. No. 1,006,120; Oct. 17; Sp. p. 3403; Gaz. vol. 171; p. 605.
Draft-gear. J. F. Courson. No. 1,006,634; Oct. 24; Sp. p. 4588; Gaz. vol. 171; p. 818.
Draft-gear, Friction. J. F. Courson. No. 1,011,034; Dec. 5; Sp p. 1382; Gaz. vol. 173; p. 220.
Draft gear, Radial-. H. F. Pope. No. 1,000,292; Aug. 8; Sp. p. 2282; Gaz. vol. 169; p. 404.
Draft gear, Radial-. H. F. Pope. No. 1,013,055; Dec. 26; Sp. p. 5919; Gaz. vol 173; p. 1036.
Draft gear, Radial-. E. H. Schmidt. No. 1,013,072; Dec. 26; Sp. p. 5953; Gaz. vol. 173; p. 1042.
Draft gear, Radial-. E. H. Schmidt No. 1,013,073; Dec. 26; Sp. p. 5956; Gaz. vol. 173; p. 1042.
Draft-gear, Tandem-spring. G. G. Floyd and C. F. Murray. No. 1,010,033; Nov. 28; Sp. p. 5288; Gaz. vol. 172; p. 948.
Draft-gearing. A. L. Stanford. No. 1,002,772; Sept. 5; Sp. p. 1314; Gaz. vol. 170; p. 198.
Draft-preventer. E. A. Schultz. No. 1,007,737; Nov. 7; Sp. p. 180; Gaz. vol. 172; p. 30.
Draft-regulator. T. G. Meas. No. 980,317; Jan. 3; Sp. p. 268; Gaz. vol. 162; p. 49.
Draft-rigging. J. Timms. No. 990,684; Apr. 25; Sp. p. 5220; Gaz. vol. 165; p. 901.
Draft-rigging. S. A. McClellan. No. 991,733; May 9; Sp. p. 1956; Gaz. vol. 166; p. 351.
Draft-rigging. J. Willison. No. 1,000,312; Aug. 8; Sp. p. 2313; Gaz. vol. 169; p. 410.
Draft-rigging. P. Brown. No. 1,005,100; Oct. 3; Sp. p. 1125; Gaz. vol. 171; p. 190.
Draft-rigging. E. H. Bauer and L. L. Whitney. No. 1,010,012; Nov. 28; Sp. p. 5243; Gaz. vol. 172; p. 939.
Draft-rigging. J. J. Byers. No. 1,011,116; Dec 5; Sp. p. 1573; Gaz. vol. 173; p. 249.
Draft-rigging, Friction. J. F. O'Connor. No. 981,675; Jan. 17; Sp. p. 3346; Gaz. vol. 162; p. 568.
Draft-rigging, Friction. J. F. O'Connor. No. 981,790; Jan. 17; Sp. p. 3589; Gaz vol. 162; p. 609.
Draft-rigging, Friction. J. F. O'Connor. No. 991,797; May 9; Sp. p. 2069; Gaz. vol. 166; p. 371.
Draft-rigging, Friction. J. F. O'Connor. No. 992,442; May 16; Sp. p. 3469; Gaz. vol. 166; p. 624.
Draft-rigging, Friction. J. F. O'Connor. No. 994,779; June 13; Sp. p. 1493; Gaz. vol. 167; p. 274.
Draft-rigging side sill. C. S. Shallenberger and P. J. Howard. No. 997,421; July 11; Sp. p. 1712; Gaz. vol. 168; p. 311.
Draft-rigging, Tandem-spring. R. E. Frame. No. 1,001,262; Aug. 22; Sp. p. 4430; Gaz. vol. 169; p. 806.
Draft-sill, Emergency. W. A. Mitchell and W. Walker. No. 1,007,227; Oct. 31; Sp. p. 5905; Gaz. vol. 171; p. 1078.
Drafting appliance. F. J. Winters, Jr. No. 1,013,086; Dec. 26; Sp. p. 5986; Gaz. vol. 173; p. 1047.
Drafting instrument. H. Wilms. No. 1,000,221; Aug. 8; Sp. p. 2137; Gaz. vol. 169; p. 380.
Drafting instrument. M. H. Starke. No. 1,001,565; Aug. 22; Sp. p. 5039; Gaz. vol. 169; p. 908.
Drafting instrument. C. H. Little. No. 1,003,764; Sept. 19; Sp. p. 3437; Gaz. vol. 170; p. 613.
Drafting instrument. G. K. Gombarts. No. 1,005,827; Oct. 17; Sp. p. 2752; Gaz. vol. 171; p. 502.
Drafting instrument. G. Villeneuve. No. 1,006,704; Oct. 24; Sp. p. 4715; Gaz. vol. 171; p. 840.
Drafting instrument. W. C. Van Gilder. No. 1,007,992; Nov. 7; Sp. p. 756; Gaz. vol. 172; p. 120.
Drafting-machine. C. H. Little. No. 1,003,765; Sept. 19; Sp. p. 3442; Gaz. vol. 170; p. 614.
Drafting-machine. C. H. Little. No. 1,003,766; Sept. 19; Sp. p. 3446; Gaz. vol. 170; p. 614.
Drafting-machine, Steam-fitter. T. Tedesco. No. 1,011,271; Dec. 12; Sp. p. 1979; Gaz. vol. 173; p. 340.
Drafting-plate. J. A. Weidel. No. 981,043; Jan. 10; Sp. p. 1991; Gaz. vol. 162; p. 328.
Drag. J. E. Wright. No. 983,594; Feb. 7; Sp. p. 739; Gaz. vol. 163; p. 115.
Drag, Road-. E. J. Hickok. No. 987,803; Mar. 28; Sp. p. 4320; Gaz. vol. 164; p. 786.
Drag, Road-. G. O. Emerson. No. 1,005,946; Oct. 17; Sp. p. 3031; Gaz. vol. 171; p. 546.
Drain and backwater-trap, Cellar-. F. A. McLoughlin. No. 997,928; July 11; Sp. p. 2848; Gaz. vol. 168; p. 486.
Drain-board. C. W. Mall. No. 994,855; June 13; Sp. p. 1675; Gaz. vol. 167; p. 300.
Drain-pipe. C. W. Osborne. No. 986,940; Mar. 14; Sp. p. 2500; Gaz. vol. 164; p. 433.
Drain-rack. S. H. Hubbard. No. 1,005,039; Oct. 3; Sp. p. 1029; Gaz. vol. 171; p. 171.
Drain, Sanitary floor-. W. Ruark. No. 980,681; Jan. 3; Sp. p. 1090; Gaz. vol. 162; p. 175.
Drain, Surface-. D. B. Luten. No. 998,704; July 25; Sp. p. 4578; Gaz vol. 168; p. 834.
Drainage-gate, Automatic. M. D. Gurnett. No. 999,305; Aug. 1; Sp. p. 215; Gaz. vol. 169; p. 40.
Drainage-illustrating apparatus. A. G. McCall and A. B. Graham. No. 1,009,431; Nov. 21; Sp. p. 4060; Gaz. vol. 172; p. 700.
Drainage-spout for buildings, Cement. B. R. Mudra. No. 1,006,775; Oct. 24; Sp. p. 4873; Gaz. vol. 171; p. 865.
Drainage system. C. W. Osborne. No. 994,600; June 6; Sp. p. 1032; Gaz. vol. 167; p. 172.
Drainage system. H. H. Sutro. No. 994,617; June 6; Sp. p. 1068; Gaz. vol. 167; p. 178.
Drainage system. C. Walker. No. 995,930; June 20; Sp. p. 4013; Gaz. vol. 167; p. 697.
Drainage system. C. Walker. No. 1,003,307; Sept. 12; Sp. p. 2460; Gaz. vol. 170; p. 424.
Drainer, Dish-. S. Boss. No. 986,265; Mar. 7; Sp. p. 1069; Gaz. vol. 164; p. 171.
Draining-rack. J. H. Cooper. No. 995,120; June 13; Sp. p. 2235; Gaz. vol. 167; p. 389.
Draining-tube, Axillary. P. S. Place. No. 995,288; June 13; Sp. p. 2561; Gaz. vol. 167; p. 444.
Draw-bar and yoke. G. C. Murray. No. 1,000,932; Aug. 15; Sp. p. 3689; Gaz. vol. 169; p. 661.
Draw-bench head, Automatic. N. A. Johnson. No. 988,348; Apr. 4; Sp. p. 119; Gaz. vol. 165; p. 21.
Draw-gear. J. F. Courson. No. 1,006,633; Oct. 24; Sp. p. 4586; Gaz. vol. 171; p. 817.
Draw-plate. A. Barashick. No. 984,737; Feb. 21; Sp. p. 3229; Gaz. vol. 163; p. 571.
Drawer bill-holding attachment, Money-. P. J. Menighan. No. 986,075; Mar. 7; Sp. p. 683; Gaz. vol. 164; p. 109.
Drawer, Coin-. H. A. Smith. No. 1,005,662; Oct. 10; Sp. p. 2410; Gaz. vol. 171; p. 414.
Drawer-handle. S. H. Brenia. No. 980,193; Jan. 3; Sp. p. 27; Gaz. vol. 162; p. 8.
Drawer-handle. E. W. Bassick. No. 1,005,796; Oct. 17; Sp. p. 2677; Gaz. vol. 171; p. 491.
Drawer, Index-card. A. J. Rudolph. No. 993,881; May 30; Sp. p. 6547; Gaz. vol. 166; p. 1180.
Drawer-lock. G. P. Tilton. No. 1,006,605; Oct. 24; Sp. p. 4535; Gaz. vol. 171; p. 808.
Drawer-lock, Master-key. J. J. Murphy. No. 1,006,777; Oct. 24; Sp. p. 4875; Gaz. vol. 171; p. 866.
Drawer-locking mechanism. A. H. Schaffert. No. 1,006,983; Oct. 24; Sp. p. 5344; Gaz. vol. 171; p. 937.
Drawer-locking mechanism, Desk-. G. G. Loehler. No. 996,934; July 4; Sp. p. 692; Gaz. vol. 168; p. 114.
Drawer-operating device. H. Lechtenberg. No. 1,006,237; Oct. 17; Sp. p. 3685; Gaz. vol. 171; p. 648.
Drawer-operating means. C. E. Sigle. No. 1,006,412; Oct. 17; Sp. p. 4064; Gaz. vol. 171; p. 708.
Drawer-pull. M. and G. B. Kurtzon. No. 981,772; Jan. 17; Sp. p. 3554; Gaz. vol. 162; p. 603.
Drawers. E. W. Carter. No. 1,006,432; Oct. 17; Sp. p. 4102; Gaz. vol. 171; p. 715.
Drawers, Suspensory-. J. A. Evans. No. 994,306; June 6; Sp. p. 414; Gaz. vol. 167; p. 71.
Drawing-board. N. W. Salisbury. No. 1,002,872; Sept. 12; Sp. p. 1553; Gaz. vol. 170; p. 270.
Drawing-board, printing-frame, and the like. T. Curr, Jr. No. 996,909; July 4; Sp. p. 647; Gaz. vol. 168; p. 105.
Drawing circles, Instrument for. J. H. McMurray. No. 1,005,992; Oct. 17; Sp. p. 3120; Gaz. vol. 171; p. 561.
Drawing implement. G. J. Petersen. No. 1,002,749; Sept. 5; Sp. p. 1271; Gaz. vol. 170; p. 190.
Drawing instrument. T. K. Piggott. No. 996,359; June 27; Sp. p. 4983; Gaz. vol. 167; p. 878.
Drawing instrument. J. Erickson. No. 999,104; July 25; Sp. p. 5480; Gaz. vol. 168; p. 975.

Drawing instrument. D. H. White. No. 1,008,934; Nov. 14; Sp. p. 2900; Gaz. vol. 172; p. 487.
Drawing instrument. A. L. McKinstry. No. 1,010,292; Nov. 28; Sp. p. 5800; Gaz. vol. 172; p. 1034.
Drawing-machine. C. J. Perry. No. 981,304; Jan. 10; Sp. p. 2593; Gaz. vol. 162; p. 422.
Drawing or marking lines on wearing-apparel, Apparatus for. K. Meyer. No. 996,996; July 4; Sp. p. 857; Gaz. vol. 168; p. 137.
Drawing-press, Hydromechanical. W. Klocke and F. Orton. No. 998,968; July 25; Sp. p. 5204; Gaz. vol. 168; p. 929.
Drawing-press, Toggle. W. Klocke and F. Orton. No. 998,969; July 25; Sp. p. 5207; Gaz. vol. 168; p. 929.
Drawing sharp edges on metallic bodies, Machine for. C. O. Halling. No. 986,820; Mar. 14; Sp. p. 2261; Gaz. vol. 164; p. 391.
Drawbridge-locking device. R. M. Agnew. No. 983,194; Jan. 31; Sp. p. 6586; Gaz. vol. 162; p. 1146.
Dredge. W. T. Sain. No. 983,772; Feb. 7; Sp. p. 1099; Gaz. vol. 163; p. 177.
Dredge. W. Ferris and P. R. Parker. No. 997,247; July 4; Sp. p. 1360; Gaz. vol. 168; p. 223.
Dredge. C. M. Snow. No. 1,001,700; Aug. 29; Sp. p. 5345; Gaz. vol. 169; p. 986.
Dredge. C. W. Ballard. No. 1,004,723; Oct. 3; Sp. p. 385; Gaz. vol. 171; p. 64.
Dredge-bucket mounting. P. Mayer. No. 998,789; July 25; Sp. p. 4783; Gaz. vol. 168; p. 864.
Dredge-hoppers, &c., Apparatus for discharging. O. Frühling. No. 1,012,196; Dec. 19; Sp. p. 4060; Gaz. vol. 173; p. 697.
Dredge, Triplet bucket ladder-. M. S. Godit. No. 998,495; July 18; Sp. p. 4113; Gaz. vol. 168; p. 729.
Dredges, Float for. H. J. Barnhart and H. T. Gracely. No. 1,010,568; Dec. 5; Sp. p. 372; Gaz. vol. 173; p. 59.
Dredges, Spud for gold-. S. B. Harding. No. 1,006,845; Oct. 24; Sp. p. 5054; Gaz. vol. 171; p. 891.
Dredger. C. W. Ballard. No. 991,473; May 9; Sp. p. 1379; Gaz. vol. 166; p. 261.
Dredger for powder-form material. J. J. Mahoney. No. 1,000,830; Aug. 15; Sp. p. 3477; Gaz. vol. 169; p. 626.
Dredger for powder-form material. J. Zipp. No. 1,000,873; Aug. 15; Sp. p. 3570; Gaz. vol. 169; p. 641.
Dredger for pulverulent material. W. L. Reed. No. 1,004,466; Sept. 26; Sp. p. 5009; Gaz. vol. 170; p. 881.
Dredging apparatus. G. E. Harpham. No. 988,466; Apr. 4; Sp. p. 378; Gaz. vol. 165; p. 61.
Dredging apparatus, Hydraulic. F. H. Gridley. No. 996,237; June 27; Sp. p. 4690; Gaz. vol. 167; p. 836.
Dress-fitter's stand and gage. A. Harmer. No. 1,005,542; Oct. 10; Sp. p. 2108; Gaz. vol. 171; p. 371.
Dress-frame. C. M. Anderson. No. 980,179; Jan. 3; Sp. p. 2; Gaz. vol. 162; p. 3.
Dress, Lady's house-. M. Alshuler. No. 1,004,960; Oct. 3; Sp. p. 881; Gaz. vol. 171; p. 144.
Dress-shield fastener. C. A. Page. No. 995,085; June 13; Sp. p. 2182; Gaz. vol. 167; p. 379.
Dresser and bureau. A. Lichtenstine. No. 1,008,835; Nov. 14; Sp. p. 2713; Gaz. vol. 172; p. 456.
Dressing-comb. G. L. Winn. No. 982,918; Jan. 31; Sp. p. 6025; Gaz. vol. 162; p. 1055.
Dressing-delivering mechanism. C. F. Burkhart. No. 1,009,220; Nov. 21; Sp. p. 3565; Gaz. vol. 172; p. 623.
Drier: *See* Centrifugal drier; Clothes-drier; Corn-drier; Currency-drier; Cylinder-drier; Cylindrical drier; Direct-heat drier; Disk drier; Egg-drier; Fruit-drier; Grain-drier; Grain or like drier; Hair-drier; Hose-drier; Laundry-drier; Paper-drier; Rotary drier; Sand-drier; Shelf-drier; Veneer-drier; Ware-drier.
Drier. F. E. Hayden. No. 980,252; Jan. 3; Sp. p. 140; Gaz. vol. 162; p. 28.
Drier. O. S. Sleeper. No. 985,217; Feb. 28; Sp p. 4243; Gaz. vol. 163; p. 769.
Drier. F. C. Fleming and F. Rock. No. 989,594; Apr. 18; Sp. p. 2807; Gaz. vol. 165; p. 496.
Drier. C. E. Geiger. No. 990,433; Apr. 25; Sp. p. 4648; Gaz. vol. 165; p. 817.
Drier. C. F. Merritt. No. 991,871; May 9; Sp. p. 2222; Gaz. vol. 166; p. 397.
Drier. W. H. Ford. No. 994,915; June 13; Sp. p. 1825; Gaz. vol. 167; p. 321.
Drier. L. E. Rodgers. No. 996,943; July 4; Sp. p. 716; Gaz. vol. 168; p. 117.
Drier. P. Jackson. No. 1,000,267; Aug. 8; Sp. p. 2224; Gaz. vol. 169; p. 395.
Drier. H. P. Coe. No. 1,000,376; Aug. 15; Sp. p. 2482; Gaz. vol. 169; p. 464.
Drier. W. M. Schwartz and A. M. Schreuder. No. 1,010,322; Nov. 28; Sp. p. 5856; Gaz. vol. 172; p. 1043.
Drier. J. F. Hanrahan. No. 1,011,780; Dec. 12; Sp. p. 3095; Gaz. vol. 173; p. 519.
Drier and condenser. O. S. Sleeper. No. 991,905; May 9; Sp. p. 2294; Gaz. vol. 166; p. 409.
Dry battery. D. L. Ordway and J. W. Brown. No. 1,011,992; Dec. 19; Sp. p. 3587; Gaz. vol. 173; p. 627.
Dry bin and roaster. J. W. East. No. 1,005,945; Oct. 17; Sp. p. 3029; Gaz. vol. 171; p. 546.
Dry concentrator. J. B. Jardine, Jr. No. 994,406; June 6; Sp. p. 635; Gaz. vol. 167; p. 108.
Dry separator. C. Hering. No. 1,005,971; Oct. 17; Sp. p. 3082; Gaz. vol. 171; p. 554.
Drying and conveying moist materials, Apparatus for. F. A. Bühler. No. 992,939; May 23; Sp. p. 4531; Gaz. vol. 166; p. 829.
Drying and conveying system, Combined. A. Gnadt. No. 1,008,256; Nov. 7; Sp. p. 1309; Gaz. vol. 172; p. 214.
Drying and polishing. F. A. Tolhurst. No. 1,003,827; Sept. 19; Sp. p. 3557; Gaz. vol. 170; p. 633.
Drying and stretching frame. C. Winkler. No. 1,010,561; Dec. 5; Sp. p. 352; Gaz. vol. 173; p. 56.
Drying apparatus. W. M. Schwartz. No. 986,226; Mar 7; Sp. p. 969; Gaz. vol. 164; p. 158.
Drying apparatus. K. Weiss. No. 991,679; May 9; Sp. p. 1852; Gaz. vol. 166; p. 335.
Drying apparatus. O. S. Sleeper. No. 993,892; May 30; Sp. p. 6565; Gaz. vol. 166; p. 1183.
Drying apparatus. E. A. Bronson. No. 1,004,358; Sept. 26; Sp. p. 4772; Gaz. vol. 170; p. 843.
Drying apparatus. F. H. Cummer. No. 1,009,225; Nov. 21; Sp. p. 3581; Gaz. vol. 172; p. 625.
Drying apparatus. C. C. Sidwell. No. 1,011,380; Dec. 12; Sp. p. 2207; Gaz. vol. 173; p. 376.
Drying apparatus for alimentary pastes. G. Falchi. No. 989,137; Apr. 11; Sp. p. 1771; Gaz. vol. 165; p. 309.
Drying edible pastes. K. Gammel. No. 994,074; May 30; Sp. p. 6927; Gaz. vol. 166; p. 1244.
Drying-machine. W. McNaught. No. 983,076; Jan. 31; Sp. p. 6374; Gaz. vol. 162; p. 1108.
Drying-machine. F. Wertenbruch. No. 986,107; Mar. 7; Sp. p. 744; Gaz. vol. 164; p. 120.
Drying-machine. S. C. Keith, Jr. No. 991,516; May 9; Sp. p. 1471; Gaz. vol. 166; p. 275.
Drying method. K. Reyscher. No. 997,092; July 4; Sp. p. 1054; Gaz. vol. 168; p. 170.
Drying non-pulverulent materials. F. Tiemann. No. 992,925; May 16; Sp. p. 3145; Gaz. vol. 166; p. 573.
Drying plant, Hot-air. G. H. Thorp. No. 981,719; Jan. 17; Sp. p. 3445; Gaz. vol. 162; p. 583.
Drying-rack. N. Zuck. No. 1,007,763; Nov. 7; Sp. p. 248; Gaz. vol. 172; p. 40.
Drying-rack. F. Kukkuck. No. 1,011,971; Dec. 19; Sp. p. 3540; Gaz. vol. 173; p. 619.
Drying sheets. C. J. Mesta and S. E. Diescher. No. 1,010,511; Dec. 5; Sp. p. 255; Gaz. vol. 173; p. 40.
Drying sheets. C. J. Mesta and S. E. Diescher. No. 1,011,072; Dec. 5; Sp. p. 1464; Gaz. vol. 173; p. 233.
Drying wool and other textile materials, Machine for. J. F. White. No. 986,253; Mar. 7; Sp. p. 1039; Gaz. vol. 164; p. 167.
Drill: *See* Boring-drill; Breast-drill; Core-drill; Electric drill; Grain-drill; Hammer-drill; Magnetic drill; Mining-drill; Multiple drill; Portable drill; Power-drill; Prospecting-drill; Ridge-drill; Rock-drill; Roller-drill; Seed and fertilizer drill; Twist-drill; Well-drill.
Drill. C. H. Oslund. No. 981,791; Jan. 17; Sp. p. 3591; Gaz. vol. 162; p. 609.
Drill. A. C. Ludlum. No. 984,825; Feb. 21; Sp. p. 3412; Gaz. vol. 163; p. 602.
Drill. A. C. Ludlum. No. 984,827; Feb. 21; Sp. p. 3414; Gaz. vol. 163; p. 602.
Drill. T. B. Neiman. No. 985,276; Feb. 28; Sp. p. 4382; Gaz. vol. 163; p. 790.
Drill. L. W. Pratt. No. 985,283; Feb. 28; Sp. p. 4391; Gaz. vol. 163; p. 792.
Drill. M. L. Hanlin and E. B. Ross. No. 988,092; Mar. 28; Sp. p. 5002; Gaz. vol. 164; p. 887.
Drill. H. B. Potts. No. 988,503; Apr. 4; Sp. p. 450; Gaz. vol. 165; p. 73.
Drill. R. J. Smith. No. 988,903; Apr. 4; Sp. p. 1279; Gaz. vol. 165; p. 205.
Drill. C. J. Clements. No. 991,830; May 9; Sp. p. 2153; Gaz. vol. 166; p. 383.
Drill. W. E. Carr. No. 992,847; May 23; Sp. p. 4318; Gaz. vol. 166; p. 795.
Drill. S. Newbold. No. 993,395; May 30; Sp. p. 5495; Gaz. vol. 166; p. 1012.
Drill. L. W. Morton. No. 994,186; June 6; Sp. p. 176; Gaz. vol. 167; p. 31.
Drill. H. H. Bennett. No. 1,000,067; Aug. 8; Sp. p. 1775; Gaz. vol. 169; p. 327.
Drill. L. Canfield. No. 1,000,778; Aug. 15; Sp. p. 3384; Gaz. vol. 169; p. 608.
Drill. A. J. MacDonald. No. 1,007,037; Oct. 24; Sp. p. 5454; Gaz. vol. 171; p. 955.
Drill attachment. M. J. Whiteman and J. Chehey. No. 981,728; Jan. 17; Sp. p. 3465; Gaz. vol. 162; p. 587.
Drill attachment, Breast-. E. C. Gladfelter. No. 1,006,932; Oct. 24; Sp. p. 5240; Gaz. vol. 171; p. 921.
Drill-bit. P. English. No. 993,972; May 30; Sp. p. 6720; Gaz. vol. 166; p. 1209.
Drill-bit and underreamer, Combined. R. E. Korts. No. 1,012,563; Dec. 19; Sp. p. 4792; Gaz. vol. 173; p. 823.
Drill-bit shaping and sharpening apparatus, Rock-. W. H. Smyth. No. 1,006,306; Oct. 17; Sp. p. 3836; Gaz. vol. 171; p. 672.
Drill-case. I. L. Burrows. No. 992,336; May 16; Sp. p. 3259; Gaz. vol. 166; p. 588.
Drill-casings, Pulling-cap for. A. C. Ludlum. No. 984,826; Feb. 21; Sp. p. 3413; Gaz. vol. 163; p. 602.

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Drill controller, Electric-. W. O. Duntley. No. 991,431; May 2; Sp. p. 1287; Gaz. vol. 166; p. 215.
Drill-coupling. M. Hardsocg. No. 980,776; Jan. 3; Sp. p. 1276; Gaz. vol. 162; p. 205.
Drill extractor, Rock-. E. K. Smith. No. 1,007,248; Oct. 31; Sp. p. 5946; Gaz. vol. 171; p. 1085.
Drill forging and sharpening machine. C. O. Borkman. No. 991,689; May 9; Sp. p. 1872; Gaz. vol. 166; p. 338.
Drill former and sharpener. J. H. Fritz. No. 990,538; Apr. 25; Sp. p. 4895; Gaz. vol. 165; p. 854.
Drill-frame. S. J. Harry. No. 1,000,404; Aug. 15; Sp. p. 2541; Gaz. vol. 169; p. 474.
Drill-gage. R. Daugherty. No. 1,002,502; Sept. 5; Sp. p. 720; Gaz. vol. 170; p. 106.
Drill-gage. O. J. Fairchild. No. 1,008,126; Nov. 7; Sp. p. 1027; Gaz. vol. 172; p. 167.
Drill gage, Twist-. G. Mack. No. 989,857; Apr. 18; Sp. p. 3360; Gaz. vol. 165; p. 586.
Drill-holder. A. H. Knight. No. 988,355; Apr. 4; Sp. p. 130; Gaz. vol. 165; p. 24.
Drill-jar. S. Morimura. No. 984,386; Feb. 14; Sp. p. 2451; Gaz. vol. 163; p. 414.
Drill-mount. C. Gardner. No. 1,004,160; Sept. 26; Sp. p. 4396; Gaz. vol. 170; p. 778.
Drill-mounting. W. Prellwitz. No. 997,509; July 11; Sp. p. 1884; Gaz. vol. 168; p. 339.
Drill mounting, Rock-. E. M. Mackie and P. F. Doyle. No. 1,007,216; Oct. 31; Sp. p. 5881; Gaz. vol. 171; p. 1074.
Drill or other impact mechanism. G. H. Condict. No. 999,433; Aug. 1; Sp. p. 476; Gaz. vol. 169; p. 83.
Drill-post. F. A. Schulz. No. 1,000,125; Aug. 8; Sp. p. 1932; Gaz. vol. 169; p. 348.
Drill-press. J. C. Mullinnix. No. 982,740; Jan. 24; Sp. p. 5618; Gaz. vol. 162; p. 965.
Drill-press. N. A. Jennet. No. 1,000,604; Aug. 15; Sp. p. 2998; Gaz. vol. 169; p. 547.
Drill-press gearing. R. Milne. No. 1,008,182; Nov. 7; Sp. p. 1135; Gaz. vol. 172; p. 187.
Drill-presses, Belt-gearing for. J. C. De Bruyn. No. 1,008,311; Nov. 14; Sp. p. 1486; Gaz. vol. 172; p. 272.
Drill-rod grab or slip-socket. J. F. Burnes. No. 980,920; Jan. 10; Sp. p. 1649; Gaz. vol. 162; p. 285.
Drill-rod handle. A. C. Ludlum. No. 984,828; Feb. 21; Sp. p. 3416; Gaz. vol. 163; p. 603.
Drill rotation device. C. C. Hansen. No. 1,009,301; Nov. 21; Sp. p. 3746; Gaz. vol. 172; p. 653.
Drill-shanks, &c., Forming. M. Hardsocg. No. 1,011,055; Dec. 5; Sp. p. 1428; Gaz. vol. 173; p. 227.
Drill-socket. P. G. Blomberg. No. 988,302; Apr. 4; Sp. p. 14; Gaz. vol. 165; p. 5.
Drill-spindles, Feed mechanism for. R. Milne. No. 983,746; Feb. 7; Sp. p. 1043; Gaz. vol. 163; p. 167.
Drill-steel-clamping means. J. H. and H. L. Sinclair. No. 984,039; Feb. 14; Sp. p. 1721; Gaz. vol. 163; p. 296.
Drill-support. J. R. Wilson. No. 999,137; July 25; Sp. p. 5537; Gaz. vol. 168; p. 984.
Drill-swage. R. Jamieson. No. 1,003,048; Sept. 12; Sp. p. 1911; Gaz. vol. 170; p. 330.
Drill-tap and die-holder, Safety. C. Bardon. No. 1,005,500; Oct. 10; Sp. p. 2027; Gaz. vol. 171; p. 356.
Drill-testing gage. A. H. Reimann. No. 990,668; Apr. 25; Sp. p. 5193; Gaz. vol. 165; p. 896.
Drills, Core-lifting appliance for. L. C. Harden and F. Wildeson. No. 1,008,904; Nov. 14; Sp. p. 2841; Gaz. vol. 172; p. 478.
Drills, Feed-lever connection for. A. J. Gifford. No. 1,011,183; Dec. 12; Sp. p. 1763; Gaz. vol. 173; p. 308.
Drills, Lubricating mechanism for multiple-spindle. B. M. W. Hanson. No. 989,002; Apr. 11; Sp. p. 1498; Gaz. vol. 165; p. 263.
Drills or planters, Attachment for corn. A. J. Winebrenner. No. 1,003,846; Sept. 19; Sp. p. 3595; Gaz. vol. 170; p. 640.
Drills or the like, Making holders for. A. H. Knight. No. 1,007,360; Oct. 31; Sp. p. 6172; Gaz. vol. 171; p. 1125.
Drills, Pressure-reducing mechanism for motive-fluid. D. S. Waugh. No. 1,000,467; Aug. 15; Sp. p. 2675; Gaz. vol. 169; p. 497.
Drilling and reaming implement. W. T. Evans and B. T. Reilly. No. 994,307; June 6; Sp. p. 415; Gaz. vol. 167; p. 71.
Drilling apparatus. G. F. Moser. No. 992,895; May 23; Sp. p. 4429; Gaz. vol. 166; p. 812.
Drilling apparatus. H. W. Muhleisen. No. 994,866; June 13; Sp. p. 1700; Gaz. vol. 167; p. 304.
Drilling bit, Coal and rock. J. Eagen. No. 985,332; Feb. 28; Sp. p. 4492; Gaz. vol. 163; p. 808.
Drilling device. R. R. Sanderson. No. 1,001,560; Aug. 22; Sp. p. 5028; Gaz. vol. 169; p. 907.
Drilling-machine. T. G. Davis. No. 981,071; Jan. 10; Sp. p. 2058; Gaz. vol. 162; p. 339.
Drilling-machine. W. Wetherbee. No. 982,755; Jan. 24; Sp. p. 5660; Gaz. vol. 162; p. 969.
Drilling-machine. H. A. Ogle. No. 983,395; Feb. 7; Sp. p. 295; Gaz. vol. 163; p. 50.
Drilling-machine. J. S. Surbaugh. No. 989,204; Apr. 11; Sp. p. 1909; Gaz. vol. 165; p. 331.
Drilling-machine. D. S. Waugh. No. 1,003,018; Sept. 12; Sp. p. 1851; Gaz. vol. 170; p. 320.
Drilling-machine. K. L. J. Frazer. No. 1,005,187; Oct. 10; Sp. p. 1317; Gaz. vol. 171; p. 244.
Drilling-machine. R. F. Mason. No. 1,010,657; Dec. 5; Sp. p. 565; Gaz. vol. 173; p. 90.
Drilling-machine attachment. R. D. Currie. No. 980,610; Jan. 3; Sp. p. 934; Gaz. vol. 162; p. 151.
Drilling-machine, Hydraulic rotary. A. G. Heggem. No. 983,050; Jan. 31; Sp. p. 6325; Gaz. vol. 162; p. 1100.
Drilling-machine, Portable pneumatic reversible. C. Schofield. No. 1,008,076; Nov. 7; Sp. p. 920; Gaz. vol. 172; p. 148.
Drilling-machine trip mechanism. R. Milne. No. 981,870; Jan. 17; Sp. p. 3773; Gaz. vol. 162; p. 638.
Drilling-rig, Combination standard and hydraulic. W. B. Wigle. No. 992,527; May 16; Sp. p. 3651; Gaz. vol. 166; p. 655.
Drilling-rig feed device. L. E. Shoup. No. 1,003,011; Sept. 12; Sp. p. 1838; Gaz. vol. 170; p. 318.
Drilling-rig, Rotary. C. Bell. No. 997,035; July 4; Sp. p. 947; Gaz. vol. 168; p. 151.
Drilling-tool. A. C. Vauclain. No. 984,323; Feb. 14; Sp. p. 2324; Gaz. vol. 163; p. 394.
Drink-mixing machine. H. G. Lilienthal. No. 985,040; Feb. 21; Sp. p. 3820; Gaz. vol. 163; p. 674.
Drinking apparatus, Sanitary. A. E. Garland. No. 1,001,839; Aug. 29; Sp. p. 5643; Gaz. vol. 169; p. 1033.
Drinking-cup. S. O. Rosenfeld. No. 991,246; May 2; Sp. p. 894; Gaz. vol. 166; p. 152.
Drinking-cup. G. W. Kidd. No. 993,174; May 23; Sp. p. 5026; Gaz. vol. 166; p. 907.
Drinking-cup. D. Goodale. No. 995,343; June 13; Sp. p. 2703; Gaz. vol. 167; p. 462.
Drinking-cup. F. H. Noyes. No. 1,003,007; Sept. 12; Sp. p. 1833; Gaz. vol. 170; p. 317.
Drinking-cup. H. H. Chambers. No. 1,007,918; Nov. 7; Sp. p. 621; Gaz. vol. 172; p. 95.
Drinking-cup, Collapsible. E. H. Forney. No. 988,453; Apr. 4; Sp. p. 349; Gaz. vol. 165; p. 56.
Drinkink-cup, Collapsible. E. S. Burns. No. 1,010,581; Dec. 5; Sp. p. 404; Gaz. vol. 173; p. 64.
Drinking-cup-collecting apparatus. A. R. Hussey. No. 986,571; Mar. 14; Sp. p. 1731; Gaz. vol. 164; p. 307.
Drinking-cup fountain. F. G. Partington. No. 1,011,364; Dec. 12; Sp. p. 2183; Gaz. vol. 173; p. 372.
Drinking-cup, Sanitary. M. L. Neff. No. 1,002,537; Sept. 5; Sp. p. 799; Gaz. vol. 170; p. 116.
Drinking-fount. G. A. and C. C. Walter. No. 1,010,543; Dec. 5; Sp. p. 311; Gaz. vol. 173; p. 49.
Drinking-fountain. H. J. Milner. No. 985,534; Feb. 28; Sp. p. 4962; Gaz. vol. 163; p. 878.
Drinking-fountain. P. A. Tornwall and R. M. Boyd. No. 985,861; Mar. 7; Sp. p. 212; Gaz. vol. 164; p. 35.
Drinking-fountain. O. Smith. No. 986,775; Mar. 14; Sp. p. 2158; Gaz. vol. 164; p. 376.
Drinking-fountain. G. E. March and W. L. Tenny. No. 992,436; May 16; Sp. p. 3459; Gaz. vol. 166; p. 622.
Drinking-fountain. T. C. Murphy. No. 997,205; July 4; Sp. p. 1277; Gaz. vol. 168; p. 208.
Drinking-fountain. A. B. Moe. No. 997,313; July 11; Sp. p. 1515; Gaz. vol. 168; p. 275.
Drinking-fountain. J. E. Johnsen. No. 998,581; July 18; Sp. p. 4299; Gaz. vol. 168; p. 759.
Drinking-fountain. H. J. Milner. No. 998,585; July 18; Sp. p. 4306; Gaz. vol. 168; p. 761.
Drinking-fountain. H. H. Newcomb. No. 1,006,869; Oct. 24; Sp. p. 5103; Gaz. vol. 171; p. 900.
Drinking-fountain. H. H. Newcomb. No. 1,006,870; Oct. 24; Sp. p. 5106; Gaz. vol. 171; p. 900.
Drinking-fountain. P. H. Edgar. No. 1,009,656; Nov. 21; Sp. p. 4484; Gaz. vol. 172; p. 772.
Drinking-fountain. J. B. Howell. No. 1,011,797; Dec. 12; Sp. p. 3145; Gaz. vol. 173; p. 525.
Drinking-fountain, Poultry. F. F. B. Chapman. No. 983,978; Feb. 14; Sp. p. 1582; Gaz. vol. 163; p. 275.
Drinking-fountain, Poultry. F. W. Ruggles. No. 986,945; Mar. 14; Sp. p. 2518; Gaz. vol. 164; p. 435.
Drinking-fountain, Poultry. W. A. Sexton. No. 1,005,659; Oct. 10; Sp. p. 2405; Gaz. vol. 171; p. 413.
Drinking-fountain, Poultry. C. C. Levy. No. 1,008,834; Nov. 14; Sp. p. 2712; Gaz. vol. 172; p. 456.
Drinking-fountain, Sanitary. W. T. Bancroft and N. W. Van Liew. No. 983,472; Feb. 7; Sp. p. 466; Gaz. vol. 163; p. 74.
Drinking-fountain, Sanitary. J. Hall, Jr. No. 985,166; Feb. 28; Sp. p. 4126; Gaz. vol. 163; p. 751.
Drinking-fountain, Sanitary. J. G. Daly and C. K. Moore. No. 985,732; Feb. 28; Sp. p. 5398; Gaz. vol. 163; p. 945.
Drinking-fountain, Sanitary. C. R. Price. No. 999,056; July 25; Sp. p. 5395; Gaz. vol. 168; p. 960.
Drinking-fountain, Sanitary. P. Mueller and A. C. Schuermann. No. 1,013,043; Dec. 26; Sp. p. 5896; Gaz. vol. 173; p. 1031.
Drinking-glasses, &c., Protector for. R. Clarke. No. 1,000,581; Aug. 15; Sp. p. 2947; Gaz. vol. 169; p. 539.
Drinking-straws, Device for dispensing. G. Meredith. No. 986,929; Mar. 14; Sp. p. 2481; Gaz. vol. 164; p. 429.
Drinking-tube. N. Parenteau. No. 1,001,218; Aug. 22; Sp. p. 4347; Gaz. vol. 169; p. 791.
Drinking-tube. G. J. Deffner. No. 1,012,193; Dec. 19; Sp. p. 4051; Gaz. vol. 173; p. 696.

Alphabetical list of inventions—Continued.

Drinking vessel for cages for the transport of birds. H. O. Blumberger. No. 1,012,589; Dec. 26; Sp. p. 4860; Gaz. vol. 173; p. 876.
Drinking-vessel holding and washing apparatus. W. Lamb. No. 981,433; Jan. 10; Sp. p. 2886; Gaz. vol. 162; p. 466.
Drinking vessel, Sanitary. R. O. Toan. No. 999,134; July 25; Sp. p. 5533; Gaz. vol. 168; p. 984.
Drinking vessels, Sanitary cleansing and indicating device for. C. W. Thornton. (Reissue.) No. 13,280; Aug. 8; Sp. p. 2424; Gaz. vol. 169; p. 426.
Drip-can. J. C. A. Fitch. No. 998,490; July 18; Sp. p. 4106; Gaz. vol. 168; p. 727.
Drip-cup. L. V. Rathbun. No. 984,850; Feb. 21; Sp. p. 3454; Gaz. vol. 163; p. 610.
Drip-pan alarm. C. T. Mallett. No. 992,737; May 16; Sp. p. 4072; Gaz. vol. 166; p. 727.
Drip-pan, Automatic-alarm. J. F. C. Bendt. No. 997,230; July 4; Sp. p. 1330; Gaz. vol. 168; p. 217.
Drip-pan signal indicating device. C. C. Mohler. No. 1,003,636; Sept. 19; Sp. p. 3162; Gaz. vol. 170; p. 570.
Drive mechanism, Double-disk friction. E. Weerts. No. 1,002,477; Sept. 5; Sp. p. 675; Gaz. vol. 170; p. 98.
Drive mechanism, Equalizing. H. Tenham. No. 993,472; May 30; Sp. p. 5671; Gaz. vol. 166; p. 1037.
Drive-point. W. H. Fahrney. No. 1,002,250; Sept. 5; Sp. p. 146; Gaz. vol. 170; p. 17.
Driving and reversing mechanism. W. Bartholomew. No. 1,012,184; Dec. 19; Sp. p. 4025; Gaz. vol. 173; p. 693.
Driving apparatus. L. E. Mitchell. No. 981,101; Jan. 10; Sp. p. 2113; Gaz. vol. 162; p. 349.
Driving apparatus, Portable. R. B. Matthews. No. 984,953; Feb. 21; Sp. p. 3653; Gaz. vol. 163; p. 644.
Driving apparatus, Tension-beam for frictional. M. E. Neenan. No. 998,629; July 25; Sp. p. 4417; Gaz. vol. 168; p. 809.
Driving connection between the rear axle structure and chassis-frame. A. P. Brush. No. 985,247; Feb. 28; Sp. p. 4314; Gaz. vol. 163; p. 780.
Driving connection, Resilient. J. E. Webster. No. 993,570; May 30; Sp. p. 5883; Gaz. vol. 166; p. 1072.
Driving device. J. Mabus. No. 998,583; July 18; Sp. p. 4302; Gaz. vol. 168; p. 760.
Driving-gear. J. L. Kleinman. No. 990,037; July 25; Sp. p. 5357; Gaz. vol. 168; p. 953.
Driving-gear mechanism. R. Stuhlmacher. No. 986,241; Mar. 7; Sp. p. 1015; Gaz. vol. 164; p. 163.
Driving-gearing. W. Bell. No. 987,539; Mar. 21; Sp. p. 3734; Gaz. vol. 164; p. 667.
Driving-head, Portable. W. D. Sherwood. No. 988,214; Mar. 28; Sp. p. 5215; Gaz. vol. 164; p. 925.
Driving mechanism. H. E. Perrault. No. 989,040; Apr. 11; Sp. p. 1571; Gaz. vol. 165; p. 275.
Driving mechanism. P. J. Mueller. No. 989,180; Apr. 11; Sp. p. 1865; Gaz. vol. 165; p. 323.
Driving mechanism. F. H. Richards. No. 997,209; July 4; Sp. p. 1286; Gaz. vol. 168; p. 209.
Driving mechanism. V. G. Apple. No. 1,002,191; Aug. 29; Sp. p. 6359; Gaz. vol. 169; p. 1148.
Driving mechanism. G. Wagner. No. 1,003,220; Sept. 12; Sp. p. 2277; Gaz. vol. 170; p. 392.
Driving mechanism. W. H. Harriss. No. 1,006,938; Oct. 24; Sp. p. 5252; Gaz. vol. 171; p. 923.
Driving mechanism. E. A. and E. L. Eustice. No. 1,008,316; Nov. 14; Sp. p. 1496; Gaz. vol. 172; p. 274.
Driving mechanism. T. J. Shea. No. 1,009,188; Nov. 21; Sp. p. 3456; Gaz. vol. 172; p. 611.
Driving mechanism. G. J. and F. E. Baker. No. 1,010,111; Nov. 28; Sp. p. 5435; Gaz. vol. 172; p. 974.
Driving mechanism. M. G. Delaney and H. D. Selby. No. 1,010,599; Dec. 5; Sp. p. 453; Gaz. vol. 173; p. 70.
Driving mechanism, Direct and reverse. P. English. No. 1,006,638; Oct. 24; Sp. p. 4596; Gaz. vol. 171; p. 819.
Driving mechanism, Friction. A. R. Le Moon. No. 999,572; Aug. 1; Sp. p. 751; Gaz. vol. 169; p. 129.
Driving mechanism, Friction. W. Sprague. No. 1,000,632; Aug. 15; Sp. p. 3067; Gaz. vol. 169; p. 557.
Driving mechanism, Governing. G. A. Weber. No. 1,009,706; Nov. 21; Sp. p. 4578; Gaz. vol. 172; p. 789.
Driving mechanism, Hydraulic differential. L. M. J. C. Levavasseur. No. 997,069; July 4; Sp. p. 1010; Gaz. vol. 168; p. 162.
Driving mechanism, Intermittent. A. E. H. J. Thoellden. No. 987,509; Mar. 21; Sp. p. 3685; Gaz. vol. 164; p. 658.
Driving-wheel. J. B. Wiard. No. 996,384; June 27; Sp. p. 5039; Gaz. vol. 167; p. 887.
Drop-guide and operating mechanism therefor. C. Van Middlesworth. No. 1,008,288; Nov. 7; Sp. p. 1385; Gaz. vol. 172; p. 225.
Drop-light attachment, Adjustable. F. K. Bartholomew. No. 980,742; Jan. 3; Sp. p. 1208; Gaz. vol. 162; p. 193.
Dropper: *See* Liquid-dropper; Potato-dropper.
Dropper and standard. H. A. Westmoreland. No. 987,199; Mar. 21; Sp. p. 3051; Gaz. vol. 164; p. 553.
Drum. W. G. Bryant. No. 1,009,467; Nov. 21; Sp. p. 4123; Gaz. vol. 172; p. 711.
Drum-actuated alarm. E. Aufiero. No. 990,796; Apr. 25; Sp. p. 5459; Gaz. vol. 165; p. 940.
Drum heel-pedal, Bass-. H. Carney. No. 980,488; Jan. 3; Sp. p. 677; Gaz. vol. 162; p. 109.
Drum, Mixing-. H. M. Kingsley. No. 996,021; June 20; Sp. p. 4186; Gaz. vol. 167; p. 728.
Drum, Planetary napping-machine. J. A. Praray and H. S. Greene. No. 1,007,237; Oct. 31; Sp. p. 5927; Gaz. vol. 171; p. 1081.
Drums, Liner for centrifugal. O. G. Åberg. No. 985,876; Mar. 7; Sp. p. 247; Gaz. vol. 164; p. 40.
Duck or flat-iron holder. J. A. Larson. No. 997,565; July 11; Sp. p. 2003; Gaz. vol. 168; p. 358.
Dumb-bell, Adjustable. H. W. Titus. No. 984,721; Feb. 21; Sp. p. 3205; Gaz. vol. 163; p. 567.
Dumb-waiter. E. N. Hallett. No. 1,003,253; Sept. 12; Sp. p. 2356; Gaz. vol. 170; p. 404.
Dumping and measuring mechanism, Automatic. E. Newman. No. 1,007,597; Oct. 31; Sp. p. 6695; Gaz. vol. 171; p. 1205.
Dumping apparatus. S. B. Stine. No. 993,731; May 30; Sp. p. 6250; Gaz. vol. 166; p. 1129.
Dumping-elevator, Automatic. R. T. Peirce. No. 1,007,483; Oct. 31; Sp. p. 6426; Gaz. vol. 171; p. 1167.
Dumping mechanism. M. A. Young. No. 983,666; Feb. 7; Sp. p. 888; Gaz. vol. 163; p. 141.
Dumping-rack. J. B. Bushnell. No. 994,718; June 13; Sp. p. 1344; Gaz. vol. 167; p. 252.
Dumping-rack. H. F. Hilborn. No. 1,010,910; Dec. 5; Sp. p. 1138; Gaz. vol. 173; p. 179.
Dumping-receptacle-locking device. W. D. Ord. No. 990,381; Apr. 25; Sp. p. 4514; Gaz. vol. 165; p. 797.
Duplicate-whist cabinet. U. R. Harding, Jr. No. 996,083; June 27; Sp. p. 4326; Gaz. vol. 167; p. 784.
Duplicating-machine. J. J. Nagle. No. 989,720; Apr. 18; Sp. p. 3055; Gaz. vol. 165; p. 538.
Duplicating-machine. A. H. Bates. No. 993,495; May 30; Sp. p. 5722; Gaz. vol. 166; p. 1046.
Duplicating-machine. H. C. Gammeter. No. 1,004,408; Sept. 26; Sp. p. 4869; Gaz. vol. 170; p. 861.
Duplicator. G. Wood. No. 998,663; July 25; Sp. p. 4492; Gaz. vol. 168; p. 820.
Dust-arrester. P. J. Derrig. No. 985,330; Feb. 28; Sp. p. 4488; Gaz. vol. 163; p. 808.
Dust-arrester. J. H. Gamblin. No. 1,009,963; Nov. 28; Sp. p. 5122; Gaz. vol. 172; p. 923.
Dust-arrester and air-purifier, Drill. W. E. Dwyer. No. 983,986; Feb. 14; Sp. p. 1607; Gaz. vol. 163; p. 278.
Dust-arrester and gas-coooler, Combined. P. J. Derrig. No. 997,762; July 11; Sp. p. 2459; Gaz. vol. 168; p. 429.
Dust-arrester, Vacuum-cleaner. R. Gober. No. 1,007,555; Oct. 31; Sp. p. 6611; Gaz. vol. 171; p. 1192.
Dust-arresting and air-purifying device. W. E. Dwyer. No. 983,882; Feb. 14; Sp. p. 1365; Gaz. vol. 163; p. 245.
Dust-catcher, Combination. M. T. Cavanaugh. No. 1,002,500; Sept. 5; Sp. p. 717; Gaz. vol. 170; p. 105.
Dust-collecting apparatus. R. A. Allen. No. 985,765; Mar. 7; Sp. p. 1; Gaz. vol. 164; p. 3.
Dust-collector. W. E. Allington. No. 989,939; Apr. 18; Sp. p. 3536; Gaz. vol. 165; p. 615.
Dust-collector. A. G. Gekeler. No. 990,542; Apr. 25; Sp. p. 4901; Gaz. vol. 165; p. 854.
Dust-collector. W. E. Allington. No. 992,531; May 16; Sp. p. 3657; Gaz. vol. 166; p. 656.
Dust-collector. C. Winkler. No. 993,009; May 23; Sp. p. 4676; Gaz. vol. 166; p. 853.
Dust-collector. P. D. Brewster. No. 993,343; May 30; Sp. p. 5387; Gaz. vol. 166; p. 995.
Dust-collector. T. Hunt. No. 993,448; May 30; Sp. p. 5613; Gaz. vol. 166; p. 1029.
Dust-collector. J. C. Zehfus. No. 997,171; July 4; Sp. p. 1214; Gaz. vol. 168; p. 196.
Dust-collector. F. J. Matchette. No. 1,007,716; Nov. 7; Sp. p. 142, Gaz. vol. 172; p. 23.
Dust-collector for pneumatic cleaning systems. D. T. Williams. No. 993,133; May 23; Sp. p. 4946; Gaz. vol. 166; p. 895.
Dust-collector for rock-drills. C. S. Wahlstrom. No. 1,003,075; Sept. 12; Sp. p. 1958; Gaz. vol. 170; p. 339.
Dust-collector, Multitubular. J. Peter. No. 996,519; June 27; Sp. p. 5311; Gaz. vol. 167; p. 931.
Dust-consumer. M. A. Goodspeed. No. 981,409; Jan. 10; Sp. p. 2834; Gaz. vol. 162; p. 457.
Dust, dirt, leaves, and other impurities from wool, hair, cotton, and other fibrous materials, Apparatus for separating. J. Hampson. No. 989,545; Apr. 11; Sp. p. 2669; Gaz. vol. 165; p. 449.
Dust-guard. T. H. Symington. No. 980,573; Jan. 3; Sp. p. 866; Gaz. vol. 162; p. 139.
Dust-guard. G. G. Floyd. No. 987,799; Mar. 28; Sp. p. 4312; Gaz. vol. 164; p. 785.
Dust-pan. C. J. Davis. No. 984,356; Feb. 14; Sp. p. 2388; Gaz. vol. 163; p. 404.
Dust-pan and broom-support, Combined. O. T. Hutchison. No. 996,341; June 27; Sp. p. 4948; Gaz. vol. 167; p. 871.
Dust-removing apparatus, Suction. H. and S. L. Whitfield. No. 988,158; Mar. 28; Sp. p. 5116; Gaz. vol. 164; p. 907.
Dust-removing apparatus, Wet separator for. H. D. Yates. No. 1,011,550; Dec. 12; Sp. p. 2586; Gaz. vol. 173; p. 438.
Dust-removing machine, Street-. A. Kündig-Honegger. No. 983,293; Feb. 7; Sp. p. 74; Gaz. vol. 163; p. 14.
Dust-separator. W. Pittelkow. No. 980,832; Jan. 3; Sp. p. 1398; Gaz. vol. 162; p. 224.
Dust-tank. J. C. Lewis. No. 995,974; June 20; Sp. p. 4089; Gaz. vol. 167; p. 712.

Alphabetical list of inventions—Continued.

Dust trap or collector. S. C. Cox. No. 983,352; Feb. 7; Sp. p. 203; Gaz. vol. 163; p. 35.
Dusting-roll. M. H. Piper. No. 1,003,647; Sept. 19; Sp. p. 3182; Gaz. vol. 170; p. 573.
Dye. O. Dressel, R. Kothe, and A. Thauss. No. 989,953; Apr. 18; Sp. p. 3569; Gaz. vol. 165; p. 619.
Dye. O. Dressel, R. Kothe, and H. Hoerlein. No. 989,954; Apr. 18; Sp. p. 3570; Gaz. vol. 165; p. 619.
Dye. O. Unger and P. Thomaschewski. No. 994,803; June 13; Sp. p. 1542; Gaz. vol. 167; p. 282.
Dye. G. Holste. No. 1,012,853; Dec. 26; Sp. p. 5470; Gaz. vol. 173; p. 968.
Dye and making same, Anthracene. R. Just and H. Wolff. No. 1,003,268; Sept. 12; Sp. p. 2385; Gaz. vol. 170; p. 410.
Dye and making same, Azo. B. Richard. No. 993,549; May 30; Sp. p. 5842; Gaz. vol. 166; p. 1065.
Dye and making same, Disazo. A. L. Laska. No. 1,001,286; Aug. 22; Sp. p. 4480; Gaz. vol. 169; p. 814.
Dye and making same, Polyazo. R. Haugwitz. No. 999,558; Aug. 1; Sp. p. 729; Gaz. vol. 169; p. 125.
Dye and making same, Vat. G. Kalischer. No. 999,798; Aug. 8; Sp. p. 1201; Gaz. vol. 169; p. 236.
Dye and making same, Yellow monoazo. H. Geldermann. No. 988,870; Apr. 4; Sp. p. 1222; Gaz. vol. 165; p. 195.
Dye, Anthracene. M. A. Kunz. No. 992,567; May 16; Sp. p. 3740; Gaz. vol. 166; p. 669.
Dye, Anthraquinone vat. M. Kugel. No. 985,352; Feb. 28; Sp. p. 4539; Gaz. vol. 163; p. 815.
Dye, Azo. J. Jansen and W. Neelmeier. No. 981,276; Jan. 10; Sp. p. 2531; Gaz. vol. 162; p. 412.
Dye, Azo. O. Günther, L. Hesse, and A. Zart. No. 982,952; Jan. 31; Sp. p. 6102; Gaz. vol. 162; p. 1066.
Dye, Azo. O. Günther, L. Hesse, and A. Zart. No. 982,953; Jan. 31; Sp. p. 6103; Gaz. vol. 162; p. 1066.
Dye, Azo. O. Günther, L. Hesse, A. Zart, and H. Schweitzer. No. 982,955; Jan. 31; Sp. p. 6104; Gaz. vol. 162; p. 1066.
Dye, Azo. K. Brenzinger. No. 993,020; May 23; Sp. p. 4704; Gaz. vol. 166; p. 857.
Dye, Azo. H. Jordan and W. Neelmeier. No. 993,073; May 23; Sp. p. 4820; Gaz. vol. 166; p. 875.
Dye, Azo. G. Kalischer. No. 999,230; Aug. 1; Sp. p. 72; Gaz. vol. 169; p. 15.
Dye, Azo. H. Freimann. No. 1,006,929; Oct. 24; Sp. p. 5234; Gaz. vol. 171; p. 920.
Dye, Azo triphenylmethane. A. Hausdörfer and C. Heidenreich. No. 980,251; Jan. 3; Sp. p. 138; Gaz. vol. 162; p. 27.
Dye, Azo triphenylmethane. A. Hausdörfer and C. Heidenreich. No. 980,521; Jan. 3; Sp. p. 757; Gaz. vol. 162; p. 122.
Dye, Black trisazo. M. Kahn and A. Ossenbeck. No. 1,000,606; Aug. 15; Sp. p. 3005; Gaz. vol. 169; p. 548.
Dye, Blue disazo. H. Jordan and W. Neelmeier. No. 1,000,269; Aug. 8; Sp. p. 2228; Gaz. vol. 169; p. 396.
Dye, Blue trisazo. H. Jordan and W. Neelmeier. No. 1,010,433; Dec. 5; Sp. p. 60; Gaz. vol. 173; p. 12.
Dye, Blue vat. M. Buff. No. 998,156; July 18; Sp. p. 3371; Gaz. vol. 168; p. 608.
Dye, Bluish-red azo. O. Günther. No. 1,009,740; Nov. 28; Sp. p. 4674; Gaz. vol. 172; p. 848.
Dye, Bluish-violet disazo. A. Zart. No. 1,012,960; Dec. 26; Sp. p. 5722; Gaz. vol. 173; p. 1004.
Dye, Brown azo. W. Bergdolt. No. 1,009,952; Nov. 28; Sp. p. 5100; Gaz. vol. 172; p. 920.
Dye, Brown basic azo. H. Gorke. No. 999,713; Aug. 1; Sp. p. 1016; Gaz. vol. 169; p. 176.
Dye, Brown vat. P. Thomaschewski, H. Raeder, W. Mieg, and P. Fischer. (Reissue.) No. 13,257; June 13; Sp. p. 2917; Gaz. vol. 167; p. 492.
Dye, Diazotizable. C. Heidenreich. No. 1,009,745; Nov. 28; Sp. p. 4684; Gaz. vol. 172; p. 850.
Dye, Diazotizable green azo. A. Blank and M. Latten. No. 1,006,051; Oct. 17; Sp. p. 3246; Gaz. vol. 171; p. 581.
Dye for wool, Azo. H. Geldermann. No. 1,011,770; Dec. 12; Sp. p. 3074; Gaz. vol. 173; p. 515.
Dye for wool, Monoazo. W. Herzberg and O. Scharfenberg. No. 986,287; Mar. 7; Sp. p. 1101; Gaz. vol. 164; p. 177.
Dye for wool, Monoazo. H. Polikier. No. 1,003,293; Sept. 12; Sp. p. 2432; Gaz. vol. 170; p. 419.
Dye for wool, Yellow pyrazolone. H. Geldermann. No. 982,050; Jan. 17; Sp. p. 4197; Gaz. vol. 162; p. 700.
Dye, Greenish-blue triphenylmethane. M. Weiler. No. 998,139; July 18; Sp. p. 3345; Gaz. vol. 168; p. 603.
Dye, Making ortho-oxymonoazo. A. L. Laska. No. 987,999; Mar. 28; Sp. p. 4797; Gaz. vol. 164; p. 855.
Dye, Monoazo. E. Berthold. No. 983,805; Feb. 7; Sp. p. 1167; Gaz. vol. 163; p. 187.
Dye, Monoazo. H. Jaesschin and O. Kaltwasser. No. 1,003,266; Sept. 12; Sp. p. 2383; Gaz. vol. 170; p. 410.
Dye, Monoazo. W. Herzberg, M. Ronus, and F. Schwabe. No. 1,008,907; Nov. 14; Sp. p. 2846; Gaz. vol. 172; p. 479.
Dye, Monoazo. H. Schweitzer and A. Zart. No. 1,009,796; Nov. 28; Sp. p. 4791; Gaz. vol. 172; p. 867.
Dye of the anthraquinone series, Sulfurized vat. W. Herzberg and W. Bruck. No. 996,485; June 27; Sp. p. 5257; Gaz. vol. 167; p. 922.
Dye of the anthraquinone series, Vat. W. Herzberg and W. Bruck. No. 993,992; May 30; Sp. p. 6771; Gaz. vol. 166; p. 1217.
Dye, Olive-gray vat. W. Mieg. No. 996,109; June 27; Sp. p. 4379; Gaz. vol. 167; p. 793.
Dye, Orange wool-. R. Kothe, O. Dressel, and H. Hoerlein. No. 1,005,233; Oct. 10; Sp. p. 1426; Gaz. vol. 171; p. 261.
Dye, Oxazin. W. Lommel. No. 985,424; Feb. 28; Sp. p. 4700; Gaz. vol. 163; p. 838.
Dye, Reddish-blue trisazo. H. Jordan. No. 999,797; Aug. 8; Sp. p. 1200; Gaz. vol. 169; p. 235.
Dye, Tetrakisazo. W. Herzberg and W. Lange. No. 997,061; July 4; Sp. p. 996; Gaz. vol. 168; p. 159.
Dye, Triphenylmethane. A. Hausdörfer and C. Heidenreich. No. 999,028; July 25; Sp. p. 5338; Gaz. vol. 168; p. 950.
Dye, Triphenylmethane. M. Weiler. No. 1,004,609; Oct. 3; Sp. p. 137; Gaz. vol. 171; p. 24.
Dye-tub apparatus. W. M. Rossiter. No. 1,006,502; Oct. 24; Sp. p. 4292; Gaz. vol. 171; p. 770.
Dye, Vat. W. Bauer, A. Herre, and R. Mayer. No. 985,767; Mar. 7; Sp. p. 4; Gaz. vol. 164; p. 3.
Dye, Vat. W. Bauer, A. Herre, and R. Mayer. No. 985,768; Mar. 7; Sp. p. 5; Gaz. vol. 164; p. 3.
Dye, Vat. P. Thomaschewski. No. 993,735; May 30; Sp. p. 6264; Gaz. vol. 166; p. 1131.
Dye, Vat. P. Thomaschewski. No. 993,736; May 30; Sp. p. 6265; Gaz. vol. 166; p. 1131.
Dye, Vat. M. Kugel. No. 994,756; June 13; Sp. p. 1450; Gaz. vol. 167; p. 267.
Dye, Vat. W. Bauer and A. Herre. No. 997,260; July 11; Sp. p. 1398; Gaz. vol. 168; p. 258.
Dye, Vat. W. Bauer, A. Herre, and R. Mayer. No. 998,596; July 25; Sp. p. 4342; Gaz. vol. 168; p. 796.
Dye, Vat. W. Bauer, A. Herre, and R. Mayer. No. 1,001,919; Aug. 29; Sp. p. 5828; Gaz. vol. 169; p. 1060.
Dye, Vat. A. Lüttringhaus. No. 1,002,066; Aug. 29; Sp. p. 6127; Gaz. vol. 169; p. 1107.
Dye, Vat. W. Bauer, A. Herre, and R. Mayer. No. 1,005,140; Oct. 10; Sp. p. 1212; Gaz. vol. 171; p. 227.
Dye, Vat. W. Bauer, A. Herre, and R. Mayer. No. 1,005,141; Oct. 10; Sp. p. 1213; Gaz. vol. 171; p. 227.
Dye, Vat. P. Thomaschewski. No. 1,010,463; Dec. 5; Sp. p. 128; Gaz. vol. 173; p. 24.
Dye, Vat. A. Lüttringhaus. No. 1,010,930; Dec. 5; Sp. p. 1179; Gaz. vol. 173; p. 185.
Dye, Vat. A. Lüttringhaus. No. 1,011,068; Dec. 5; Sp. p. 1456; Gaz. vol. 173; p. 231.
Dye, Violet wool-. P. Thomaschewski. No. 1,004,107; Sept. 26; Sp. p. 4263; Gaz. vol. 170; p. 760.
Dye, Yellow azo. V. Villiger and E. Fussenegger. No. 990,173; Apr. 18; Sp. p. 4015; Gaz. vol. 165; p. 692.
Dye, Yellow disazo. A. Zart and H. Schweitzer. No. 999,944; Aug. 8; Sp. p. 1506; Gaz. vol. 169; p. 285.
Dye, Yellow disazo. A. Zart and H. Schweitzer. No. 1,001,183; Aug. 22; Sp. p. 4276; Gaz. vol. 169; p. 780.
Dye, Yellowish-red vat. P. Thomaschewski, H. Raeder, W. Mieg, and P. Fischer. No. 986,521; Mar. 14; Sp. p. 1625; Gaz. vol. 164; p. 289.
Dyes and making same, Mordant-dyeing azo. B. Richard. No. 991,750; May 9; Sp. p. 1978; Gaz. vol. 166; p. 355.
Dyes and making the same, Green anthracene. H. Wolff. No. 995,936; June 20; Sp. p. 4023; Gaz. vol. 167; p. 700.
Dyes and making them, Pyrazolone. P. Julius and E. Fussenegger. No. 1,010,919; Dec. 5; Sp. p. 1162; Gaz. vol. 173; p. 182.
Dyes for wool, Disazo. A. L. Laska. No. 995,161; June 13; Sp. p. 2328; Gaz. vol. 167; p. 403.
Dyes for wool, Monoazo. W. Herzberg. No. 987,362; Mar. 21; Sp. p. 3381; Gaz. vol. 164; p. 607.
Dyes of the anthracene series, Making acid. M. Iljinsky. No. 996,487; June 27; Sp. p. 5260; Gaz. vol. 167; p. 922.
Dyes of the anthraquinone series, Vat. W. Herzberg and W. Bruck. No. 1,008,906; Nov. 14; Sp. p. 2844; Gaz. vol. 172; p. 479.
Dyes of the anthraquinone series, Vat. W. Herzberg and W. Bruck. No. 1,008,908; Nov. 14; Sp. p. 2847; Gaz. vol. 172; p. 479.
Dyes, Orange cotton-. A. L. Laska. No. 995,160; June 13; Sp. p. 2326; Gaz. vol. 167; p. 402.
Dyeing. P. Besnier. No. 988,300; Apr. 4; Sp. p. 12; Gaz. vol. 165; p. 4.
Dyeing. R. Ott. No. 989,186; Apr. 11; Sp. p. 1876; Gaz. vol. 165; p. 325.
Dyeing. F. Binder. No. 996,396; June 27; Sp. p. 5063; Gaz. vol. 167; p. 891.
Dyeing. M. Kahn and A. Ossenbeck. No. 1,006,097; Oct. 17; Sp. p. 3343; Gaz. vol. 171; p. 596.
Dyeing acetyl cellulose. E. Knoevenagel. No. 1,002,408; Sept. 5; Sp. p. 523; Gaz. vol. 170; p. 74.
Dyeing and bleaching machine. T. and T. Frusher, Jr. No. 1,000,251; Aug. 8; Sp. p. 2189; Gaz. vol. 169; p. 390.
Dyeing apparatus. J. C. Evenden and C. Frohlich. No. 988,633; Apr. 4; Sp. p. 742; Gaz. vol. 165; p. 118.
Dyeing apparatus. T. H. Daniels. No. 996,463; June 27; Sp. p. 5216; Gaz. vol. 167; p. 914.
Dyeing apparatus. A. Amrein. No. 997,360; July 11; Sp. p. 1609; Gaz. vol. 168; p. 292.

Alphabetical list of inventions—Continued.

Dyeing apparatus. E. De Journo. No. 1,000,589; Aug. 15; Sp. p. 2962; Gaz. vol. 169; p. 542.
Dyeing apparatus. W. R. Smith. No. 1,004,486; Sept. 26; Sp. p. 5048; Gaz. vol. 170; p. 888.
Dyeing apparatus. O. Kircheis. No. 1,010,637; Dec. 5; Sp. p. 532; Gaz. vol. 173; p. 83.
Dyeing apparatus, Fabric-. L. Derreumaux-Bulteau. No. 993,435; May 30; Sp. p. 5592; Gaz. vol. 166; p. 1025.
Dyeing apparatus, Liquid-. H. Eicken. No. 1,006,471; Oct. 24; Sp. p. 4207; Gaz. vol. 171; p. 758.
Dyeing apparatus, Skein-. J. and L. Regordosa. No. 985,936; Mar. 7; Sp. p. 386; Gaz. vol. 164; p. 61.
Dyeing coloring-matter, Vat-. K. Elbel and E. Wray. No. 999,439; Aug. 1; Sp. p. 485; Gaz. vol. 169; p. 85.
Dyeing compound and producing the same. G. S. Whitty. No. 982,194; Jan. 17; Sp. p. 4461; Gaz. vol. 162; p. 748.
Dyeing fabrics. A. Rutler. No. 1,005,888; Oct. 17; Sp. p. 2891; Gaz. vol. 171; p. 524.
Dyeing hairs, furs, &c. A. Erlenbach. No. 992,947; May 23; Sp. p. 4549; Gaz. vol. 166; p. 832.
Dyeing half-wool goods. H. Walther. No. 990,023; Apr. 18; Sp. p. 3708; Gaz. vol. 165; p. 643.
Dyeing half-woolen goods. M. Becke and A. Beil. No. 995,431; June 20; Sp. p. 2920; Gaz. vol. 167; p. 521.
Dyeing loose material, Apparatus for. W. Berger. No. 983,530; Feb. 7; Sp. p. 579; Gaz. vol. 163; p. 93.
Dyeing-machine. J. Richardson and J. F. Neef. No. 989,644; Apr. 18; Sp. p. 2906; Gaz. vol. 165; p. 513.
Dyeing-machine. A. Ligget. No. 992,365; May 16; Sp. p. 3321; Gaz. vol. 166; p. 598.
Dyeing-machine. H. P. Mallison. No. 994,016; May 30; Sp. p. 6822; Gaz. vol. 166; p. 1224.
Dyeing-machine. J. M. Payne. No. 996,514; June 27; Sp. p. 5302; Gaz. vol. 167; p. 930.
Dyeing-machine. C. Frohlich. No. 999,304; Aug. 1; Sp. p. 212; Gaz. vol. 169; p. 40.
Dyeing-machine. J. Leisel. No. 1,010,274; Nov. 28; Sp. p. 5755; Gaz. vol. 172; p. 1028.
Dyeing-machine, Revolving-collapsible-beam vacuum. F. M. Morton. No. 1,010,513; Dec. 5; Sp. p. 258; Gaz. vol. 173; p. 41.
Dyeing machine, Skein-. W. H. Fletcher. No. 1,008,251; Nov. 7; Sp. p. 1299; Gaz. vol. 172; p. 212.
Dyeing-machines, Revolving collapsible beam for. F. M. Morton. No. 987,480; Mar. 21; Sp. p. 3638; Gaz. vol. 164; p. 648.
Dyeing-machines, Revolving collapsible beam for. F. M. Morton. No. 987,481; Mar. 21; Sp. p. 3640; Gaz. vol. 164; p. 648.
Dyeing or similarly treating textiles, Apparatus for. J. C. Hebden and F. H. Daniell. No. 993,324; May 23; Sp. p. 5330; Gaz. vol. 166; p. 955.
Dyeing vat, Indigo-. H. Chaumat. No. 981,380; Jan. 10; Sp. p. 2754; Gaz. vol. 162; p. 447.
Dyeing with benzoquinone derivatives. R. Lesser. No. 1,009,981; Nov. 28; Sp. p. 5156; Gaz. vol. 172; p. 928.
Dyeing wound yarn, Apparatus for use in. H. Resch, Sr. No. 990,064; Apr. 18; Sp. p. 3788; Gaz. vol. 165; p. 656.
Dyeing yarn. J. C. Hebden and F. H. Daniell. No. 996,761; July 4; Sp. p. 325; Gaz. vol. 168; p. 55.
Dyeings on cotton, Producing dischargeable. O. Ernst and H. Eichwede. No. 1,012,619; Dec. 26; Sp. p. 4928; Gaz. vol. 173; p. 886.
Dyestuff and making same, Blue. M. Hessenland. No. 998,772; July 25; Sp. p. 4759; Gaz. vol. 168; p. 859.
Dyestuff and making same, Fluorescein. A. Brunner. No. 990,224; Apr. 25; Sp. p. 4143; Gaz. vol. 165; p. 741.
Dyestuff and making same, Monoazo. O. Ernst and H. Eichwede. No. 983,486; Feb. 7; Sp. p. 493; Gaz. vol. 163; p. 79.
Dyestuff and making same, Monoazo. H. Geldermann. No. 984,900; Feb. 21; Sp. p. 3547; Gaz. vol. 163; p. 627.
Dyestuff and making same, Red mordant. C. De la Harpe and E. Bodmer. No. 1,002,825; Sept. 12; Sp. p. 1426; Gaz. vol. 170; p. 254.
Dyestuff and making same, Violet mordant. C. De la Harpe and E. Bodmer. No. 1,003,257; Sept. 12; Sp. p. 2367; Gaz. vol. 170; p. 406.
Dyestuff, Azo. O. Günther, L. Hesse, A. Zart, and H. Schweitzer. No. 982,954; Jan. 31; Sp. p. 6103; Gaz. vol. 162; p. 1066.
Dyestuff, Azo. O. Günther, L. Hesse, and A. Zart. No. 989,000; Apr. 11; Sp. p. 1496; Gaz. vol. 165; p. 262.
Dyestuff, Azo. O. Günther, L. Hesse, and A. Zart. No. 989,001; Apr. 11; Sp. p. 1497; Gaz. vol. 165; p. 262.
Dyestuff, Azo. M. T. Bogert. No. 1,012,055; Dec. 19; Sp. p. 3737; Gaz. vol. 173; p. 649.
Dyestuff, Blue triphenylmethane. A. Stock and F. Heim. No. 995,494; June 20; Sp. p. 3049; Gaz. vol. 167; p. 543.
Dyestuff, Blue triphenylmethane. M. Weiler. No. 1,004,610; Oct. 3; Sp. p. 137; Gaz. vol. 171; p. 24.
Dyestuff, Bluish-red azo. K. Schirmacher and R. Leopold. No. 1,001,458; Aug. 22; Sp. p. 4842; Gaz. vol. 169; p. 873.
Dyestuff, Direct-dyeing cotton-. J. Turner and H. Dean. No. 987,417; Mar. 21; Sp. p. 3506; Gaz. vol. 164; p. 626.
Dyestuff, Disazo. A. L. Laska. No. 982,507; Jan. 24; Sp. p. 5155; Gaz. vol. 162; p. 888.
Dyestuff, Disazo. A. L. Laska. No. 982,508; Jan. 24; Sp. p. 5156; Gaz. vol. 162; p. 889.
Dyestuff, Disazo. A. L. Laska. No. 982,509; Jan. 24; Sp. p. 5157; Gaz. vol. 162; p. 889.
Dyestuff, Disazo. H. Schweitzer and A. Zart. No. 1,009,797; Nov. 28; Sp. p. 4792; Gaz. vol. 172; p. 868.
Dyestuff for chrome-mordanted wool, Monoazo. H. Geldermann and H. Oster. No. 983,132; Jan. 31; Sp. p. 6476; Gaz. vol. 162; p. 1126.
Dyestuff of the anthracene series, Vat. F. Singer. No. 999,680; Aug. 1; Sp. p. 952; Gaz. vol. 169; p. 166.
Dyestuff of the anthraquinone series and making same, Vat. M. Hessenland. No. 1,002,270; Sept. 5; Sp. p. 187; Gaz. vol. 170; p. 24.
Dyestuff of the gallocyanin series and making same, Leuco. C. De la Harpe and R. Burckhardt. No. 1,000,899; Aug. 15; Sp. p. 3618; Gaz. vol. 169; p. 650.
Dyestuff of the triphenylmethane series and making same, Red acid. W. Emmerich. No. 1,006,738; Oct. 24; Sp. p. 4789; Gaz. vol. 171; p. 851.
Dyestuff, Substantive disazo. A. L. Laska. No. 988,000; Mar. 28; Sp. p. 4798; Gaz. vol. 164; p. 855.
Dyestuff, Vat. W. Bauer, A. Herre, and R. Mayer. No. 985,769; Mar. 7; Sp. p. 5; Gaz. vol. 164; p. 4.
Dyestuff, Vat. W. Bauer, A. Herre, and R. Mayer. No. 985,770; Mar. 7; Sp. p. 6; Gaz. vol. 164; p. 4.
Dyestuff, Vat. M. Hessenland. No. 999,785; Aug. 8; Sp. p. 1174; Gaz. vol. 169; p.231.
Dyestuffs and making same, Halogenized vat. G. Engi and J. Fröhlich. No. 997,766; July 11; Sp. p. 2466; Gaz. vol. 168; p. 430.
Dyestuffs, Green to black vat. K. Schirmacher and R. Leopold. No. 1,001,457; Aug. 22; Sp. p. 4841; Gaz. vol. 169; p. 873.
Dyestuffs, Manufacture of brown sulfurized vat. A. L. Laska. No. 999,045; July 25; Sp. p. 5379; Gaz. vol. 168; p. 956.
Dyestuffs of the anthraquinone series and making same, Vat. M. Hessenland. No. 1,007,104; Oct. 31; Sp. p. 5620; Gaz. vol. 171; p. 1033.
Dynamic motor. C. R. Held. No. 995,348; June 13; Sp. p. 2714; Gaz. vol. 167; p. 464.
Dynamo. L. E. Underwood. No. 1,003,955; Sept. 19; Sp. p. 3873; Gaz. vol. 170; p. 679.
Dynamo-brush holder. O. Höhme. No. 983,230; Jan. 31; Sp. p. 6675; Gaz. vol. 162; p. 1159.
Dynamo-mounting. J. F. McElroy. No. 983,158; Jan. 31; Sp. p. 6518; Gaz. vol. 162; p. 1133.
Dynamos, Brush-holder for. C. H. Smoot. No. 1,003,817; Sept. 19; Sp. p. 3541; Gaz. vol. 170; p. 630.
Dynamos from variable and non-variable sources of power, Driving. C. D. Haskins. No. 996,334; June 27; Sp. p. 4935; Gaz. vol. 167; p. 868.
Ear-closing device. M. E. Hegge. No. 997,673; July 11; Sp. p. 2246; Gaz. vol. 168; p. 397.
Ear-irrigating device. E. P. Fowler. No. 989,839; Apr. 18; Sp. p. 3328; Gaz. vol. 165; p. 580.
Ear-muff. W. H. French. No. 1,010,248; Nov. 28; Sp. p. 5702; Gaz. vol. 172; p. 1019.
Ear-protector. W. F. Quinn. No. 993,620; May 30; Sp. p. 5994; Gaz. vol. 166; p. 1090.
Ear-ring. M. Auerbach. No. 983,598; Feb. 7; Sp. p. 748; Gaz. vol. 163; p. 117.
Ear-ring. H. Levi. No. 1,008,419; Nov. 14; Sp. p. 1784; Gaz. vol. 172; p. 310.
Earmark. H. C. Stoll. No. 982,896; Jan. 31; Sp. p. 5972; Gaz. vol. 162; p. 1048.
Earmark and means of attachment. W. Burgess. No. 1,011,911; Dec. 19; Sp. p. 3411; Gaz. vol. 173; p. 598.
Earth-loading device, Portable. W. Moore. No. 1,001,212; Aug. 22; Sp. p. 4338; Gaz. vol. 169; p. 790.
Earthy materials, Treating. C. Ellis. No. 999,494; Aug. 1; Sp. p. 590; Gaz. vol. 169; p. 102.
Easel and the like, Artist's studio-. W. B. Macdougall. No. 1,002,167; Aug. 29; Sp. p. 6309; Gaz. vol. 169; p. 1140.
Easel attachment for display boxes, cards, pictures, &c. T. H. De Lacy. No. 999,363; Aug. 1; Sp. p. 340; Gaz. vol. 169; p. 60.
Easter rabbit. C. F. O. Schmidt. No. 991,804; May 9; Sp. p. 2087; Gaz. vol. 166; p. 374.
Eaves-trough. L. J. Ross and W. C. Gowin. No. 1,005,885; Oct. 17; Sp. p. 2887; Gaz. vol. 171; p. 524.
Eaves-trough hanger. J. C. Timm. No. 985,860; Mar. 7; Sp. p. 211; Gaz. vol. 164; p. 35.
Eaves-trough hanger, Adjustable. W. T. Harris. No. 1,003,258; Sept. 12; Sp. p. 2368; Gaz. vol. 170; p. 406.
Eaves-trough support. W. C. Swisher. No. 984,716; Feb. 21; Sp. p. 3193; Gaz. vol. 163; p. 565.
Eccentric. R. M. Clark. No. 980,760; Jan. 3; Sp. p. 1243; Gaz. vol. 162; p. 199.
Edge-gage for use on slugging, nailing, or like machines. M. T. Denne. No. 993,764; May 30; Sp. p. 6321; Gaz. vol. 166; p. 1140.
Edge-roll-stuffing machine. C. Rutson. No. 992,808; May 23; Sp. p. 4229; Gaz. vol. 166; p. 781.
Edge setter and finisher. E. N. Chandler. No. 984,538; Feb. 21; Sp. p. 2803; Gaz. vol. 163; p. 501.
Edge-setting iron. C. Jörgensen and A. Haahr. (Reissue.) No. 13,284; Aug. 15; Sp. p. 3797; Gaz. vol. 169; p. 678.
Edge setting or burnishing machine. Z. Beaudry. No. 1,000,575; Aug. 15; Sp. p. 2929; Gaz. vol. 169; p. 536.

Alphabetical list of inventions—Continued.

Edge-trimming machine. A. S. Vose. No. 987,656; Mar. 21; Sp. p. 3975; Gaz. vol. 164; p. 708.
Edger. G. M. Pelton. No. 981,467; Jan. 10; Sp. p. 2944; Gaz. vol. 162; p. 478.
Edger. W. G. Zimmerman. No. 995,756; June 20; Sp. p. 3644; Gaz. vol. 167; p. 636.
Edger. R. J. Tower. No. 1,002,883; Sept. 12; Sp. p. 1585; Gaz. vol. 170; p. 274.
Edger-guide. P. F. Lueth and I. L. Skeith. No. 991,730; May 9; Sp. p. 1951; Gaz. vol. 166; p. 350.
Edger-table. G. S. Agee. No. 989,749; Apr. 18; Sp. p. 3122; Gaz. vol. 165; p. 549.
Educational appliance. L. T. Freeman. No. 997,986; July 18; Sp. p. 2993; Gaz. vol. 168; p. 548.
Egg and the like box. A. E. Stein. No. 1,003,013; Sept. 12; Sp. p. 1842; Gaz. vol. 170; p. 319.
Egg-baker. G. Radtke. No. 999,257; Aug. 1; Sp. p. 128; Gaz. vol. 169; p. 24.
Egg-beater. W. Noakes. No. 980,824; Jan. 3; Sp. p. 1384; Gaz. vol. 162; p. 221.
Egg-beater. E. D. Read. No. 989,418; Apr. 11; Sp. p. 2387; Gaz. vol. 165; p. 403.
Egg-beater. W. Dupré. No. 991,432; May 2; Sp. p. 1291; Gaz. vol. 166; p. 215.
Egg-beater. M. B. Olsen. No. 991,883; May 9; Sp. p. 2255; Gaz. vol. 166; p. 402.
Egg-beater. C. Opdahl. No. 1,002,434; Sept. 5; Sp. p. 579; Gaz. vol. 170; p. 83.
Egg-beater. C. C. Booth. No. 1,003,425; Sept. 19; Sp. p. 2696; Gaz. vol. 170; p. 495.
Egg-beater and cream-whip, Combined. G. F. Hess. No. 1,004,786; Oct. 3; Sp. p. 514; Gaz. vol. 171; p. 85.
Egg-beater holder. E. L. Knapp and B. F. Ronneberger. No. 1,005,847; Oct. 17; Sp. p. 2796; Gaz. vol. 171; p. 509.
Egg-box partition. C. T. Bloomer. No. 1,006,716; Oct. 24; Sp. p. 4739; Gaz. vol. 171; p. 844.
Egg-candler. H. F. Freise. No. 1,006,200; Oct. 17; Sp. p. 3605; Gaz. vol. 171; p. 635.
Egg-candler. R. D. Hayward. No. 1,007,198; Oct. 31; Sp. p. 5849; Gaz. vol. 171; p. 1068.
Egg-candling apparatus. E. Mitchell and J. H. Keeran. No. 1,010,512; Dec. 5; Sp. p. 257; Gaz. vol. 173; p. 40.
Egg-carrier. J. Lunke. No. 998,855; July 25; Sp. p. 4937; Gaz. vol. 168; p. 888.
Egg-carrier. W. Johnson. No. 1,004,791; Oct. 3; Sp. p. 520; Gaz. vol. 171; p. 86.
Egg carrier or receptacle. E. Schinscholl. No. 999,881; Aug. 8; Sp. p. 1371; Gaz. vol. 169; p. 263.
Egg-case. W. H. Emrick. No. 997,379; July 11; Sp. p. 1645; Gaz. vol. 168; p. 298.
Egg-case, Folding. W. H. Dear. No. 1,007,073; Oct. 31; Sp. p. 5549; Gaz. vol. 171; p. 1021.
Egg-case partition, Removable. F. Schaefer and J. A. Lynch. No. 1,000,694; Aug. 15; Sp. p. 3199; Gaz. vol. 169; p. 578.
Egg-detector. W. H. Hutchinson. No. 995,144; June 13; Sp. p. 2286; Gaz. vol. 167; p. 396.
Egg-detector. W. H. Hutchinson. No. 1,005,220; Oct. 10; Sp. p. 1387; Gaz. vol. 171; p. 256.
Egg-drier. J. Wiebe. No. 992,622; May 16; Sp. p. 3855; Gaz. vol. 166; p. 687.
Egg-handling device. P. Weifenbach. No. 987,780; Mar. 28; Sp. p. 4270; Gaz. vol. 164; p. 779.
Egg-hatching apparatus. W. Bachmann. No. 987,686; Mar. 28; Sp. p. 4069; Gaz. vol. 164; p. 747.
Egg-holder. S. Mrksity. No. 999,054; July 25; Sp. p. 5393; Gaz. vol. 168; p. 960.
Egg-preserving compound. E. Petersen and M. Clairemont. No. 999,589; Aug. 1; Sp. p. 782; Gaz. vol. 169; p. 136.
Egg-rack. P. Weber. No. 992,396; May 16; Sp. p. 3381; Gaz. vol. 166; p. 609.
Egg-receptacle. M. Subert. No. 1,009,451; Nov. 21; Sp. p. 4099; Gaz. vol. 172; p. 707.
Egg-separator. F. Lewis. No. 990,758; Apr. 25; Sp. p. 5372; Gaz. vol. 165; p. 927.
Egg-separator. W. Shuey. No. 1,001,314; Aug. 22; Sp. p. 4559; Gaz. vol. 169; p. 825.
Egg-shake-making apparatus. A. D. Ross. No. 1,001,451; Aug. 22; Sp. p. 4831; Gaz. vol. 169; p. 871.
Egg-tester. T. R. Cole. No. 983,687; Feb. 7; Sp. p. 933; Gaz. vol. 163; p. 148.
Egg-tester. W. C. De Lapp. No. 988,317; Apr. 4; Sp. p. 44; Gaz. vol. 165; p. 10.
Egg-tester. I. Davis. No. 993,965; May 30; Sp. p. 6706; Gaz. vol. 166; p. 1207.
Egg-tester. F. Antenen. No. 994,557; June 6; Sp. p. 948; Gaz. vol. 167; p. 157.
Egg-tester. R. A. Davis. No. 996,466; June 27; Sp. p. 5218; Gaz. vol. 167; p. 915.
Egg-tester. E. E. Wills. No. 1,010,336; Nov. 28; Sp. p. 5889; Gaz. vol. 172; p. 1048.
Egg-tester. N. P. Easling. No. 1,010,744; Dec. 5; Sp. p. 775; Gaz. vol. 173; p. 121.
Eggs, Apparatus and method of transferring and candling. H. Vanneman and C. Zimmerlin. No. 1,000,644; Aug. 15; Sp. p. 3095; Gaz. vol. 169; p. 561.
Eggs, Preserving. A. G. C. Sterley. No. 995,198; June 13; Sp. p. 2386; Gaz. vol. 167; p. 414.
Eggs, Preserving. B. F. Birkett. No. 996,696; July 4; Sp. p. 200; Gaz. vol. 168; p. 34.
Eggs, Preserving. T. Lescardé. No. 1,011,352; Dec. 12; Sp. p. 2163; Gaz. vol. 173; p. 368.
Ejecting-container. J. E. Broad. No. 996,055; June 27; Sp. p. 4265; Gaz. vol. 167; p. 775.
Ejector. A. Rosenberg. No. 997,584; July 11; Sp. p. 2046; Gaz. vol. 168; p. 365.
Ejector. F. J. O'Leary. No. 1,005,288; Oct. 10; Sp. p. 1561; Gaz. vol. 171; p. 281.
Ejector, condenser, and air pump or compressor. E. S. G. Rees. No. 1,002,753; Sept. 5; Sp. p. 1276; Gaz. vol. 170; p. 191.
Elastic connecting device. J. F. Atwood. No. 1,012,502; Dec. 19; Sp. p. 4668; Gaz. vol. 173; p. 801.
Elastic cord for garment-supports. W. T. Sondley. No. 1,006,014; Oct. 17; Sp. p. 3166; Gaz. vol. 171; p. 568.
Elastic coupling. E. Schmalzried. No. 989,064; Apr. 11; Sp. p. 1636; Gaz. vol. 165; p. 285.
Elastic-fluid motor. W. F. Born. No. 1,008,781; Nov. 14; Sp. p. 2608; Gaz. vol. 172; p. 438.
Elastic-hub wheel. C. Feroci. No. 1,010,031; Nov. 28; Sp. p. 5285; Gaz. vol. 172; p. 947.
Elastic webbing. W. Kops. No. 989,985; Apr. 18; Sp. p. 3645; Gaz. vol. 165; p. 631.
Elastic webbing. W. G. Smith. No. 993,803; May 30; Sp. p. 6396; Gaz. vol. 166; p. 1153.
Elastic webbing. S. Brown. No. 997,747; July 11; Sp. p. 2432; Gaz. vol. 168; p. 424.
Elastic wheel. H. G. Baldwin. No. 980,738; Jan. 3; Sp. p. 1201; Gaz. vol. 162; p. 192.
Elastic wheel. J. C. MacLachlan. No. 988,201; Mar. 28; Sp. p. 5192; Gaz. vol. 164; p. 921.
Elastic wheel. A. Angst. No. 1,000,975; Aug. 22; Sp. p. 3805; Gaz. vol. 169; p. 709.
Elastic wheel for motor-vehicles. W. P. Hoopes. No. 1,005,707; Oct. 10; Sp. p. 2499; Gaz. vol. 171; p. 429.
Elaterite, Treating. J. C. Ross. No. 984,240; Feb. 14; Sp. p. 2150; Gaz. vol. 163; p. 365.
Electric-accumulator ignition-gear, Distributer for. F. R. Simms. No. 1,008,206; Nov. 7; Sp. p. 1195; Gaz. vol. 172; p. 196.
Electric alarm. P. A. Brown. No. 1,002,820; Sept. 12; Sp. p. 1412; Gaz. vol. 170; p. 252.
Electric alarm. P. A. Brown. No. 1,004,740; Oct. 3; Sp. p. 418; Gaz. vol. 171; p. 70.
Electric alternating-current machinery, Voltage regulation of dynamo-. M. Seidner. No. 980,844; Jan. 3; Sp. p. 1420; Gaz. vol. 162; p. 227.
Electric apparatus. C. A. Lohr. No. 983,245; Jan. 31; Sp. p. 6709; Gaz. vol. 162; p. 1164.
Electric apparatus and operating the same, Vapor. C. O. Bastian. No. 982,119; Jan. 17; Sp. p. 4331; Gaz. vol. 162; p. 723.
Electric apparatus, Controlling vapor. P. H. Thomas. No. 1,008,391; Nov. 14; Sp. p. 1707; Gaz. vol. 172; p. 301.
Electric-apparatus-cooling device. C. L. Fortescue, No. 1,010,134; Nov. 28; Sp. p. 5480; Gaz. vol. 172; p. 982.
Electric apparatus, Forming coils for. L. W. Chubb. No. 999,749; Aug. 8; Sp. p. 1107; Gaz. vol. 169; p. 219.
Electric apparatus, Manufacture of vapor. P. H. Thomas. No. 1,009,539; Nov. 28; Sp. p. 5066; Gaz. vol. 172; p. 914.
Electric apparatus, Static protector for vapor. J. L. R. Hayden. No. 996,582; June 27; Sp. p. 5449; Gaz. vol. 167; p. 953.
Electric apparatus, Vacuum-tube. D. M. Moore. No. 1,008,728; Nov. 14; Sp. p. 2494; Gaz. vol. 172; p. 419.
Electric apparatus, Vapor. M. von Recklinghausen. No. 984,707; Feb. 21; Sp. p. 3168; Gaz. vol. 163; p. 561.
Electric apparatus, Vapor. P. C. Hewitt. No. 989,259; Apr. 11; Sp. p. 2047; Gaz. vol. 165; p. 350.
Electric apparatus, Vapor. W. F. Sneed. No. 996,371; June 27; Sp. p. 5009; Gaz. vol. 167; p. 882.
Electric apparatus, Vapor. O. O. Kruh. No. 996,865; July 4; Sp. p. 552; Gaz. vol. 168; p. 91.
Electric apparatus, Vapor. J. T. H. Dempster. No. 996,979; July 4; Sp. p. 815; Gaz. vol. 168; p. 131.
Electric apparatus, Vapor. E. Thomson. No. 1,001,709; Aug. 29; Sp. p. 5365; Gaz. vol. 169; p. 989.
Electric arcs, Method of and apparatus for deviating. J. J. Thoresen and F. Tharaldsen. No. 996,951; July 4; Sp. p. 734; Gaz. vol. 168; p. 120.
Electric arcs, Process and apparatus for producing long stable. O. Schönherr and J. Hessberger. No. 1,003,299; Sept. 12; Sp. p. 2444; Gaz. vol. 170; p. 420.
Electric battery. C. Jaeger. No. 986,064; Mar. 7; Sp. p. 662; Gaz. vol. 164; p. 106.
Electric battery. W. Morrison. No. 1,006,494; Oct. 24; Sp. p. 4271; Gaz. vol. 171; p. 767.
Electric battery. G. Pfleiderer. No. 1,011,485; Dec. 12; Sp. p. 2443; Gaz. vol. 173; p. 416.
Electric battery, Primary. G. A. Lutz. No. 1,000,421; Aug. 15; Sp. p. 2584; Gaz. vol. 169; p. 481.
Electric brake. J. N. Mahoney and W. M. Austin. No. 997,458; July 11; Sp. p. 1777; Gaz. vol. 168; p. 323.
Electric brake. W. F. Moody. No. 998,976; July 25; Sp. p. 5226; Gaz. vol. 168; p. 931.
Electric brake. J. N. Mahoney. No. 1,012,878; Dec. 26; Sp. p. 5531; Gaz. vol. 173; p. 976.

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Electric brake for electric motors. M. Kallmann. No. 1,007,705; Nov. 7; Sp. p. 117; Gaz. vol. 172; p. 19.
Electric cable. A. E. Sink. No. 990,398; Apr. 25; Sp. p. 4558; Gaz. vol. 165; p. 804.
Electric-cable protector. J. A. Sandford, Jr. No. 1,010,181; Nov. 28; Sp. p. 5569; Gaz. vol. 172; p. 997.
Electric-cable terminal. C. W. Davis. No. 990,234; Apr. 25; Sp. p. 4167; Gaz. vol. 165; p. 745.
Electric cables and like purposes, Flexible protector for. E. L. Pease. No. 996,515; June 27; Sp. p. 5302; Gaz. vol. 167; p. 930.
Electric cables, Method and apparatus for forming. H. W. Fisher. No. 1,009,731; Nov. 28; Sp. p. 4651; Gaz. vol. 172; p. 845.
Electric circuit, Apparatus for regulating or controlling the pressure of the current in an. J. Watkinson and A. E. Payne. No. 983,414; Feb. 7; Sp. p. 329; Gaz. vol. 163; p. 56.
Electric-circuit automatic cut-out. E. S. Sears. No. 1,002,544; Sept. 5; Sp. p. 812; Gaz. vol. 170; p. 119.
Electric-circuit breaker. W. Walz. No. 989,458; Apr. 11; Sp. p. 2460; Gaz. vol. 165; p. 416.
Electric-circuit breaker, Automatic. W. F. Meter and W. L. Rideout. No. 980,812; Jan. 3; Sp. p. 1355; Gaz. vol. 162; p. 217.
Electric circuit-breaker, Thermo-. E. W. Leeper. No. 997,838; July 11; Sp. p. 2644; Gaz. vol. 168; p. 455.
Electric-circuit closer. J. A. Kennedy-McGregor. No. 991,853; May 9; Sp. p. 2192; Gaz. vol. 166; p. 391.
Electric-circuit closer. C. F. Lewis. No. 996,990; July 4; Sp. p. 835; Gaz. vol. 168; p. 134.
Electric-circuit closer and breaker. T. H. McQuown. No. 1,011,070; Dec. 5; Sp. p. 1459; Gaz. vol. 173; p. 232.
Electric-circuit controller. E. J. Burke. No. 988,440; Apr. 4; Sp. p. 321; Gaz. vol. 165; p. 53.
Electric-circuit controller. A. Meadows. No. 1,010,663; Dec. 5; Sp. p. 577; Gaz. vol. 173; p. 92.
Electric-circuit-controlling device. P. Lorillard. No. 980,541; Jan. 3; Sp. p. 795; Gaz. vol. 162; p. 128.
Electric-circuit-controlling means. C. J. Fox and W. C. Grein. No. 983,817; Feb. 7; Sp. p. 1184; Gaz. vol. 163; p. 191.
Electric-circuit-controlling system. G. W. Hart. No. 988,093; Mar. 28; Sp. p. 5004; Gaz. vol. 164; p. 887.
Electric-circuit-opening device. E. S. Beck. No. 999,735; Aug. 8; Sp. p. 1079; Gaz. vol. 169; p. 215.
Electric-circuit switch. H. W. Cheney. No. 981,063; Jan. 10; Sp. p. 2045; Gaz. vol. 162; p. 336.
Electric-circuit switch. G. Wright. No. 996,387; June 27; Sp. p. 5044; Gaz. vol. 167; p. 888.
Electric circuits, Ceiling-rose and the like for use in. F. G. Bazell. No. 1,007,054; Oct. 31; Sp. p. 5497; Gaz. vol. 171; p. 1015.
Electric circuits, Combined fuse-box and switch for. P. Druseidt. No. 994,251; June 6; Sp. p. 308; Gaz. vol. 167; p. 53.
Electric circuits, Means for controlling. G. W. Hart. No. 999,781; Aug. 8; Sp. p. 1163; Gaz. vol. 169; p. 229.
Electric circuits, Mechanism for making and breaking. W. H. Pierce and C. R. Parker. No. 1,010,173; Nov. 28; Sp. p. 5549; Gaz. vol. 172; p. 994.
Electric condenser. M. Meirowsky. No. 1,010,936; Dec. 5; Sp. p. 1195; Gaz. vol. 173; p. 187.
Electric conductor. E. Morss. No. 983,161; Jan. 31; Sp. p. 6525; Gaz. vol. 162; p. 1134.
Electric-conductor connector. G. E. Stevens. No. 981,027; Jan. 10; Sp. p. 1958; Gaz. vol. 162; p. 323.
Electric-conductor connector. W. L. Bliss. No. 983,258; Jan. 31; Sp. p. 6742; Gaz. vol. 162; p. 1169.
Electric-conductor molding. S. M. Burk. No. 982,764; Jan. 24; Sp. p. 5676; Gaz. vol. 162; p. 973.
Electric-conductor safety-coupling. A. Belgoder. No. 987,036; Mar. 14; Sp. p. 2677; Gaz. vol. 164; p. 463.
Electric-conductor support. W. E. Foote. No. 998,766; July 25; Sp. p. 4744; Gaz. vol. 168; p. 857.
Electric conductors and binding-posts, Insulating-bushing for. F. W. Cole. No. 1,010,592; Dec. 5; Sp. p. 425; Gaz. vol. 173; p. 68.
Electric conductors, Fittings for supporting. T. Buchholz. No. 1,011,910; Dec. 19; Sp. p. 3408; Gaz. vol. 173; p. 597.
Electric conductors, Flexible conduit for. C. A. Flack. No. 983,815; Feb. 7; Sp. p. 1182; Gaz. vol. 163; p. 190.
Electric-conduit connection and coupling. O. M. Neitzel. No. 995,893; June 20; Sp. p. 3940; Gaz. vol. 167; p. 683.
Electric-conduit outlet-boxes, Drop-cord cap for. C. S. Homsher. No. 1,002,061; Aug. 29; Sp. p. 6119; Gaz. vol. 169; p. 1106.
Electric-conduit outlet-boxes, Porch-receptacle for. C. S. Homsher. No. 991,309; May 2; Sp. p. 1044; Gaz. vol. 166; p. 174.
Electric conduits, Connection-box for. J. E. Graybill. No. 988,461; Apr. 4; Sp. p. 361; Gaz. vol. 165; p. 59.
Electric conduits, Terminal connector or coupling for. W. S. Brown. No. 1,005,506; Oct. 10; Sp. p. 2037; Gaz. vol. 171; p. 358.
Electric connecting-plug. R. B. Wolcott. No. 1,008,879; Nov. 14; Sp. p. 2792; Gaz. vol. 172; p. 470.
Electric contact. A. Schweiger. No. 981,012; Jan. 10; Sp. p. 1921; Gaz. vol. 162; p. 318.
Electric contact under carpets and the like for alarm-signals and other purposes. F. Marmion. No. 1,003,145; Sept. 12; Sp. p. 2110; Gaz. vol. 170; p. 363.
Electric controller. A. C. Eastwood. No. 981,847; Jan. 17; Sp. p. 3724; Gaz. vol. 162; p. 630.
Electric controller. A. C. Eastwood. No. 981,848; Jan. 17; Sp. p. 3726; Gaz. vol. 162; p. 630.
Electric controller. A. C. Eastwood. No. 997,280; July 11; Sp. p. 1439; Gaz. vol. 168; p. 265.
Electric controller. L. A. De Mayo. No. 999,578; Aug. 1; Sp. p. 761; Gaz. vol. 169; p. 132.
Electric controller. J. H. Hall. No. 1,004,780; Oct. 3; Sp. p. 501; Gaz. vol. 171; p. 82.
Electric controller. H. F. Stratton. No. 1,004,825; Oct. 3; Sp. p. 589; Gaz. vol. 171; p. 97.
Electric controller. A. C. Eastwood. No. 1,008,454; Nov. 14; Sp. p. 1889; Gaz. vol. 172; p. 323.
Electric coupling mechanism, Automatic. M. Wuerpel. No. 1,009,370; Nov. 21; Sp. p. 3902; Gaz. vol. 172; p. 677.
Electric-current controller. G. G. Thompson. No. 993,475; May 30; Sp. p. 5678; Gaz. vol. 166; p. 1039.
Electric-current-distribution system, Alternating-. G. North and J. S. Peck. No. 1,007,480; Oct. 31; Sp. p. 6419; Gaz. vol. 171; p. 1166.
Electric-current-generating apparatus. W. B. Clements. No. 1,010,591; Dec. 5; Sp. p. 424; Gaz. vol. 173; p. 68.
Electric current, Power transmission from a car-axle for generating. J. A. Faguy. No. 993,669; May 30; Sp. p. 6117; Gaz. vol. 166; p. 1107.
Electric-current-shunting device. R. W. W. Grigsby. No. 1,008,326; Nov. 14; Sp. p. 1520; Gaz. vol. 172; p. 278.
Electric currents, Amplifying. L. W. Southgate. No. 992,817; May 23; Sp. p. 4251; Gaz. vol. 166; p. 784.
Electric currents, Apparatus for use in the distribution of. G. Berry. No. 1,009,636; Nov. 21; Sp. p. 4446; Gaz. vol. 172; p. 766.
Electric currents, Apparatus for use in the distribution of. A. F. Berry. No. 1,010,409; Dec. 5; Sp. p. 5; Gaz. vol. 173; p. 3.
Electric currents, Apparatus for use in the distribution of. F. E. Berry. No. 1,010,410; Dec. 5; Sp. p. 9; Gaz. vol. 173; p. 4.
Electric currents, Synchronizing-interrupter for. E. Bachelet. No. 986,039; Mar. 7; Sp. p. 608; Gaz. vol. 164; p. 98.
Electric currents, System for amplifying feeble. L. De Forest. No. 995,126; June 13; Sp. p. 2244; Gaz. vol. 167; p. 391.
Electric cut-off. W. N. Sturgeon and H. R. Shanley. No. 983,178; Jan. 31; Sp. p. 6555; Gaz. vol. 162; p. 1140.
Electric cut-out. T. E. Murray. No. 986,744; Mar. 14; Sp. p. 2087; Gaz. vol. 164; p. 365.
Electric cut-out. T. E. Murray. No. 991,006; May 2; Sp. p. 378; Gaz. vol. 166; p. 65.
Electric cut-out. G. A. Jordan. No. 1,002,996; Sept. 12; Sp. p. 1812; Gaz. vol. 170; p. 313.
Electric cut-out. T. E. Murray. No. 1,012,145; Dec. 19; Sp. p. 3940; Gaz. vol. 173; p. 681.
Electric-cut-out box. T. E. Murray. No. 995,628; June 20; Sp. p. 3354; Gaz. vol. 167; p. 591.
Electric detonator and exploder. R. H. Rennie and C. C. Jessen. No. 991,373; May 2; Sp. p. 1172; Gaz. vol. 166; p. 195.
Electric device, Vapor. J. L. Hayden. No. 1,006,657; Oct. 24; Sp. p. 4628; Gaz. vol. 171; p. 825.
Electric devices, Controlling vapor. P. H. Thomas. No. 1,009,025; Nov. 14; Sp. p. 3116; Gaz. vol. 172; p. 518.
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Electric distribution. J. L. Creveling. No. 1,009,831; Nov. 28; Sp. p. 4871; Gaz. vol. 172; p. 879.
Electric drill. W. O. Duntley. No. 993,352; May 30; Sp. p. 5401; Gaz. vol. 166; p. 998.
Electric drop-light. D. H. Taylor. No. 1,005,902; Oct. 17; Sp. p. 2914; Gaz. vol. 171; p. 529.
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Electric furnace for treating gases. H. Pauling. No. 999,587; Aug. 1; Sp. p. 778; Gaz. vol. 169; p. 135.
Electric-furnace process and electric furnace. C. Hering. No. 988,936; Apr. 4; Sp. p. 1348; Gaz. vol. 165; p. 216.
Electric furnaces with polyphase currents, Supplying. P. Girod. No. 983,043; Jan. 31; Sp. p. 6309; Gaz. vol. 162; p. 1097.
Electric generator, motor, &c. B. Ljungström. No. 999,811; Aug. 8; Sp. p. 1222; Gaz. vol. 169; p. 240.
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Electric heater and sterilizer. J. G. Wallmann. No. 987,658; Mar. 21; Sp. p. 3979; Gaz. vol. 164; p. 709.
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Electric-light attachment. J. A. Williams. No. 980,580; Jan. 3; Sp. p. 878; Gaz. vol. 162; p. 141.
Electric-light-bulb shade. B. R. Williams. No. 994,228; June 6; Sp. p. 261; Gaz. vol. 167; p. 45.
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Electric-light fixture. J. S. Cuming. No. 986,550; Mar. 14; Sp. p. 1689; Gaz. vol. 164; p. 299.
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Electric-light switch. C. Wagner. No. 985,234; Feb. 28; Sp. p. 4292; Gaz. vol. 163; p. 775.
Electric-light switch for telephone-booths. S. M. O. Grant. No. 987,357; Mar. 21; Sp. p. 3374; Gaz. vol. 164; p. 606.
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Electric-lighted finder. F. L. Fitch. No. 995,778; June 20; Sp. p. 3692; Gaz. vol. 167; p. 644.
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Electric machines, Magnetic shields for. C. H. Smoot No. 997,337; July 11; Sp. p. 1566; Gaz. vol. 168; p. 284.
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Electric machinery. K. Hertwig and F. Collischonn. No. 996,762; July 4; Sp. p. 327; Gaz. vol. 168; p. 56.
Electric machinery, Actuation of controllers and the like for. H. B. Van Daalen. No. 1,004,314; Sept. 26; Sp. p. 4687; Gaz. vol. 170; p. 829.
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Electric meter. H. N. Atwood. No. 981,235; Jan. 10; Sp. p. 2451; Gaz. vol. 162; p. 397.
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Electric motor. J. H. Pearce. No. 995,632; June 20; Sp. p. 3363; Gaz. vol. 167; p. 593.
Electric motor, Alternating-current. H. S. Meyer. No. 980,986; Jan. 10; Sp. p. 1849; Gaz. vol. 162; p. 308.
Electric motor or generator. H. A. Balcome. No. 1,004,230; Sept. 26; Sp. p. 4529; Gaz. vol. 170; p. 802.
Electric oscillations, Apparatus for producing. R. C. Galletti. No. 1,000,396; Aug. 15; Sp. p. 2519; Gaz. vol. 169; p. 471.
Electric oscillations, Apparatus for producing. J. Murgas. No. 1,001,975; Aug. 29; Sp. p. 5949; Gaz. vol. 169; p. 1078.
Electric ozonizer. S. Shepherd. No. 1,011,503; Dec. 12; Sp. p. 2479; Gaz. vol. 173; p. 422.
Electric reciprocating engine. W. A. Stedman. No. 991,384; May 2; Sp. p. 1191; Gaz. vol. 166; p. 198.
Electric regulation. J. L. Creveling. No. 982,800; Jan. 31; Sp. p. 5755; Gaz. vol. 162; p. 1014.
Electric regulation. J. L. Creveling. No. 1,004,379; Sept. 26; Sp. p. 4827; Gaz. vol. 170; p. 852.
Electric regulation. J. L. Creveling. No. 1,007,186; Oct. 31; Sp. p. 5825; Gaz. vol. 171; p. 1063.
Electric regulation. J. L. Creveling. No. 1,008,243; Nov. 7; Sp. p. 1285; Gaz. vol. 172; p. 210.
Electric regulation. J. L. Creveling. No. 1,008,244; Nov. 7; Sp. p. 1287; Gaz. vol. 172; p. 210.
Electric regulation. J. L. Creveling. No. 1,008,294; Nov. 7; Sp. p. 1406; Gaz. vol. 172; p. 228.
Electric regulation. J. L. Creveling. No. 1,010,025; Nov. 28; Sp. p. 5271; Gaz. vol. 172; p. 944.
Electric regulation. J. L. Creveling. No. 1,011,165; Dec. 12; Sp. p. 1725; Gaz. vol. 173; p. 302.
Electric regulator. H. K. Kouyoumjian. No. 983,500; Feb. 7; Sp. p. 520; Gaz. vol. 163; p. 83.
Electric regulator. S. Y. Culley. No. 1,003,882; Sept. 19; Sp. p. 3672; Gaz. vol. 170; p. 653.
Electric resistance. R. C. Harris. No. 1,006,655; Oct. 24; Sp. p. 4625; Gaz. vol. 171; p. 825.
Electric-resistance furnace. A. Petersson. No. 1,002,444; Sept. 5; Sp. p. 602; Gaz. vol. 170; p. 86.
Electric-resistance furnace. W. A. Smith. No. 1,004,924; Oct. 3; Sp. p. 820; Gaz. vol. 171; p. 132.
Electric resister. R. Kraus. No. 996,862; July 4; Sp. p. 544; Gaz. vol. 168; p. 89.
Electric sampler, Automatic. J. N. Flood. No. 1,010,032; Nov. 28; Sp. p. 5285; Gaz. vol. 172; p. 948.
Electric secondary battery. P. Rabbidge. No. 985,368; Feb. 28; Sp. p. 4570; Gaz. vol. 163; p. 819.

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Electric signal. D. E. Zinn. No. 1,004,518; Sept. 26; Sp. p. 5106; Gaz. vol. 170; p. 899.
Electric signal. E. Seget. No. 1,007,243; Oct. 31; Sp. p. 5938; Gaz. vol. 171; p. 1084.
Electric signal system. F. B. Wood. No. 983,191; Jan. 31; Sp p. 6574; Gaz. vol. 162; p. 1144.
Electric snap-switch. C. J. Dorff. No. 996,068; June 27; Sp. p. 4296; Gaz. vol. 167; p. 779.
Electric snap-switch. R. J. Barber and V. Durbin. No. 1,003,391; Sept. 12; Sp. p. 2625; Gaz. vol. 170; p. 451.
Electric socket. A. Pikoos. No. 1,011,842; Dec. 12; Sp. p. 3242; Gaz. vol. 173; p. 539.
Electric socket-shell and shade-holder. J. Hansen. No. 998,090; July 18; Sp. p. 3238; Gaz. vol. 168; p. 586.
Electric switch. A. C. Eastwood. No. 980,221; Jan. 3; Sp. p. 89; Gaz. vol. 162; p. 17.
Electric switch. C. D. Platt. No. 980,559; Jan. 3; Sp. p. 832; Gaz. vol. 162; p. 134.
Electric switch. G. A. Burnham. No. 980,863; Jan. 3; Sp. p. 1469; Gaz. vol. 162; p. 235.
Electric switch. P. T. McNally. No. 981,452; Jan. 10; Sp. p. 2922; Gaz. vol. 162; p. 472.
Electric switch. H. R. Sargent. No. 981,692; Jan. 17; Sp. p. 3401; Gaz. vol. 162; p. 574.
Electric switch. C. S. Van Nuis. No. 981,823; Jan. 17; Sp. p. 3683; Gaz. vol. 162; p. 622.
Electric switch. W. T. Pringle. No. 982,869; Jan. 31; Sp. p. 5917; Gaz. vol. 162; p. 1039.
Electric switch. F. H. Hallefas. No. 983,275; Feb. 7; Sp. p. 34; Gaz. vol. 163; p. 8.
Electric switch. C. S. Van Nuis. No. 983,660; Feb. 7; Sp. p. 870; Gaz. vol. 163; p. 139.
Electric switch. F. W. Kurtz. No. 983,908; Feb. 14; Sp. p. 1429; Gaz. vol. 163; p. 253.
Electric switch. J. H. A. Normandeau. No. 985,173; Feb. 28; Sp. p. 4145; Gaz. vol. 163; p. 753.
Electric switch. C. A. Pfanstiehl. No. 985,701; Feb. 28; Sp. p. 5336; Gaz. vol. 163; p. 935.
Electric switch. H. Hull. No. 986,714; Mar. 14; Sp. p. 2031; Gaz. vol. 164; p. 356.
Electric switch. C. Woods and W. H. Sayles. No. 986,958; Mar. 14; Sp. p. 2537; Gaz. vol. 164; p. 439.
Electric switch. O. B. Whipple. No. 987,200; Mar. 21; Sp. p. 3052; Gaz. vol. 164; p. 553.
Electric switch. J. R. Rossignol. No. 988,821; Apr. 4; Sp. p. 1133; Gaz. vol. 165; p. 181.
Electric switch. T. E. Barnum. No. 990,512; Apr. 25; Sp. p. 4846; Gaz. vol. 165; p. 845.
Electric switch. A. J. Horton. No. 993,526; May 30; Sp. p. 5786; Gaz. vol. 166; p. 1057.
Electric switch. J. K. Lux. No. 994,853; June 13; Sp. p. 1670; Gaz. vol. 167; p. 299.
Electric switch. L. T. Rhoades. No. 994,952; June 13; Sp. p. 1893; Gaz. vol. 167; p. 333.
Electric switch. H. Fisher. No. 995,528; June 20; Sp. p. 3124; Gaz. vol. 167; p. 556.
Electric switch. J. H. Champ. No. 995,767; June 20; Sp. p. 3669; Gaz. vol. 167; p. 640.
Electric switch. H. J. Carrigan. No. 996,615; July 4; Sp. p. 40; Gaz. vol. 168; p. 8.
Electric switch. J. C. Walden. No. 997,106; July 4; Sp. p. 1077; Gaz. vol. 168; p. 174.
Electric switch. J. Morse and F. T. Kaelin. No. 997,316; July 11; Sp. p. 1521; Gaz. vol. 168; p. 276.
Electric switch. C. W. Denny. No. 997,759; July 11; Sp. p. 2454; Gaz. vol. 168; p. 428.
Electric switch. C. A. Pfanstiehl. No. 998,301; July 18; Sp. p. 3724; Gaz. vol. 168; p. 663.
Electric switch. A. W. Clauder. No. 998,467; July 18; Sp. p. 4062; Gaz. vol. 168; p. 720.
Electric switch. C. Loeffler. No. 998,786; July 25; Sp. p. 4778; Gaz. vol. 168; p. 864.
Electric switch. G. E. Palmer. No. 999,851; Aug. 8; Sp. p. 1302; Gaz. vol. 169; p. 252.
Electric switch. F. Schneider and J. C. Dunfee. No. 999,883; Aug. 8; Sp. p. 1374; Gaz. vol. 169; p. 264.
Electric switch. C. H. Thordarson. No. 1,000,052; Aug. 8; Sp. p. 1720; Gaz. vol. 169; p. 321.
Electric switch. W. E. Dow. No. 1,000,158; Aug. 8; Sp. p. 1996; Gaz. vol. 169; p. 358.
Electric switch. H. R. Hirst. No. 1,001,032; Aug. 22; Sp. p. 3971; Gaz. vol. 169; p. 730.
Electric switch. J. F. McElroy. No. 1,002,595; Sept. 5; Sp. p. 922; Gaz. vol. 170; p. 138.
Electric switch. J. P. Jakobsen and H. F. Jensen. No. 1,003,111; Sept. 12; Sp. p. 2051; Gaz. vol. 170; p. 353.
Electric switch. G. B. Thomas. No. 1,003,954; Sept. 19; Sp. p. 3872; Gaz. vol. 170; p. 679.
Electric switch. A. A. Ziegler. No. 1,005,402; Oct. 10; Sp. p. 1810; Gaz. vol. 171; p. 323.
Electric switch. R. B. Benjamin. No. 1,005,926; Oct. 17; Sp. p. 2983; Gaz. vol. 171; p. 539.
Electric switch. H. J. Ford. No. 1,006,193; Oct. 17; Sp. p. 3572; Gaz. vol. 171; p. 632.
Electric switch. F. E. Seeley. No. 1,006,296; Oct. 17; Sp. p. 3817; Gaz. vol. 171; p. 668.
Electric switch. W. H. Chambers. No. 1,009,648; Nov. 21; Sp. p. 4465; Gaz. vol. 172; p. 769.
Electric switch. E. M. Hewlett. No. 1,010,425; Dec. 5; Sp. p. 46; Gaz. vol. 173; p. 10.
Electric switch. W. J. Crumpton. No. 1,010,620; Dec. 5; Sp. p. 492; Gaz. vol. 173; p. 77.
Electric switch. E. A. Halbleib. No. 1,010,753; Dec. 5; Sp. p. 791; Gaz. vol. 173; p. 124.
Electric switch. T. E. Murray and W. T. Dempsey. No. 1,011,639; Dec. 12; Sp. p. 2832; Gaz. vol. 173; p. 472.
Electric switch. F. B. Bowers. No. 1,012,240; Dec. 19; Sp. p. 4154; Gaz. vol. 173; p. 712.
Electric switch. M. H. Cullen. No. 1,012,525; Dec. 19; Sp. p. 4708; Gaz. vol. 173; p. 809.
Electric switch. P. H. Thomas. No. 1,012,753; Dec. 26; Sp. p. 5208; Gaz. vol. 173; p. 933.
Electric switch. F. Buchanan. No. 1,012,806; Dec. 26; Sp. p. 5347; Gaz. vol. 173; p. 951.
Electric switch, Automatic. E. W. Davis. No. 1,004,383; Sept. 26; Sp. p. 4834; Gaz. vol. 170; p. 853.
Electric switch, Automatically-operated. I. C. Bell. No. 1,012,798; Dec. 26; Sp. p. 5332; Gaz. vol. 173; p. 949.
Electric switch, Clock-operated. J. W. Hansen. No. 986,281; Mar. 7; Sp. p. 1092; Gaz. vol. 164; p. 175.
Electric switch, Continuous. F. M. G. Johnson. No. 1,007,291; Oct. 31; Sp. p. 6029; Gaz. vol. 171; p. 1100.
Electric switch, Iron-clad. V. Hope. No. 986,570; Mar. 14; Sp. p. 1729; Gaz. vol. 164; p. 306.
Electric switch or controller. R. E. Noble and L. E. Mitchell. No. 990,767; Apr. 25; Sp. p. 5389; Gaz. vol. 165; p. 930.
Electric switch, Oscillating. G. E. Stevens. No. 996,373; June 27; Sp. p. 5013; Gaz. vol. 167; p. 883.
Electric switch, Time-controlled. C. R. Dana. No. 994,575; June 6; Sp. p. 985; Gaz. vol. 167; p. 164.
Electric switches, Self-adjustable contact-maker for. F. W. Young. No. 1,001,796; Aug. 29; Sp. p. 5545; Gaz. vol. 169; p. 1018.
Electric switches, Pull-socket for. F. Barr. (Reissue.) No. 13,301; Oct. 31; Sp. p. 6829; Gaz. vol. 171; p. 1228.
Electric taplet. N. Klein. No. 984,224; Feb. 14; Sp. p. 2120; Gaz. vol. 163; p. 359.
Electric terminal contact. W. E. Russell. No. 1,001,558; Aug. 22; Sp. p. 5025; Gaz. vol. 169; p. 906.
Electric time-light, Thermally-operated. I. L. Kiser. No. 994,846; June 13; Sp. p. 1655; Gaz. vol. 167; p. 297.
Electric time-switch. C. J. Lindewald. No. 1,010,277; Nov. 28; Sp. p. 5767; Gaz. vol. 172; p. 1029.
Electric time-switch, Automatic. B. F. Flegel. No. 983,224; Jan. 31; Sp. p. 6652; Gaz. vol. 162; p. 1157.
Electric tool. C. B. Coates. No. 996,833; July 4; Sp. p. 474; Gaz. vol. 168; p. 79.
Electric track-switch. J. P. Tierney and J. Malone. No. 989,730; Apr. 18; Sp. p. 3073; Gaz. vol. 165; p. 542.
Electric trap. M. Cole. No. 1,006,910; Oct. 24; Sp. p. 5201; Gaz. vol. 171; p. 914.
Electric transformers, Testing. M. C. Rypinski. No. 984,160; Feb. 14; Sp. p. 1960; Gaz. vol. 163; p. 336.
Electric-vehicle-charging wall-socket and plug. J. N. Davis. No. 981,622; Jan. 17; Sp. p. 3254; Gaz. vol. 162; p. 552.
Electric vulcanizer. W. C. Fish and A. M. Stanley. No. 982,045; Jan. 17; Sp. p. 4190; Gaz. vol. 162; p. 698.
Electric wall-box. M. Murray and J. D. MacDougal. No. 983,162; Jan. 31; Sp. p. 6527; Gaz. vol. 162; p. 1134.
Electric wall-sockets to walls, Means for attaching. C. T. McDonald. No. 992,971; May 23; Sp. p. 4604; Gaz. vol. 166; p. 840.
Electric-wave transmission. J. H. Cuntz. No. 995,588; June 20; Sp. p. 3270; Gaz. vol. 167; p. 577.
Electric waves, Apparatus for shortening. C. Ferrari and M. Pizzuti. No. 1,000,248; Aug. 8; Sp. p. 2184; Gaz. vol. 169; p. 389.
Electric-wire connector. H. W. Forbes. No. 1,006,192; Oct. 17; Sp. p. 3571; Gaz. vol. 171; p. 632.
Electric wire for vulcanization, Machine for reeling rubber-covered. T. J. Seward. No. 1,008,993; Nov. 14; Sp. p. 3044; Gaz. vol. 172; p. 506.
Electric-wire supporter. S. Jeremiah. No. 997,916; July 11; Sp. p. 2821; Gaz. vol. 168; p. 482.
Electric-wire terminal. G. L. Herz. No. 996,853; July 4; Sp. p. 522; Gaz. vol. 168; p. 86.
Electric-wire-terminal clip. J. H. Kaesen. No. 1,005,846; Oct. 17; Sp. p. 2794; Gaz. vol. 171; p. 509.
Electric wires, Attachment-plug for. W. C. Tregoning. No. 1,005,119; Oct. 3; Sp. p. 1167; Gaz. vol. 171; p. 197.
Electric-wiring fixtures, Outlet-box-supporting bracket for. S. Adelman. No. 982,110; Jan. 17; Sp. p. 4315; Gaz. vol. 162; p. 720.
Electric wiring, Knob for. F. B. Bower. No. 995,838; June 20; Sp. p. 3823; Gaz. vol. 167; p. 665.
Electrical apparatus. G. Westinghouse. No. 994,810; June 13; Sp. p. 1554; Gaz. vol. 167; p. 285.
Electrical apparatus. K. C. Randall. No. 999,870; Aug. 8; Sp. p. 1343; Gaz. vol. 169; p. 259.
Electrical apparatus, Adjustable. W. T. Thomas and H. T. Paiste. No. 995,203; June 13; Sp. p. 2392; Gaz. vol. 167; p. 415.
Electrical apparatus, Construction of coils for. G. Honold. No. 986,291; Mar. 7; Sp. p. 1108; Gaz. vol. 164; p. 178.
Electrical-apparatus controller. F. L. Sessions. No. 1,004,089; Sept. 26; Sp. p. 4221; Gaz. vol. 170; p. 753.
Electrical apparatus, Heat-dissipating means for. H. A. Rhodes. No. 981,690; Jan. 17; Sp. p. 3397; Gaz. vol. 162; p. 574.

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Electrical bonding device or rail-connector. J. M. Lorenz. No. 1,013,029; Dec. 26; Sp. p. 5869; Gaz. vol. 173; p. 1026.
Electrical brush or collector, Flexible. R. H. Barbour. No. 990,951; May 2; Sp. p. 269; Gaz. vol. 166; p. 46.
Electrical-cable terminal. C. W. Davis. No. 1,005,002; Oct. 3; Sp. p. 951; Gaz. vol. 171; p. 158.
Electrical-cable terminal structure. C. W. Davis. No. 1,005,003; Oct. 3; Sp. p. 953; Gaz. vol. 171; p. 158.
Electrical-circuit controller and alarm. A. Goldstein. No. 986,707; Mar. 14; Sp. p. 2017; Gaz. vol. 164; p. 353.
Electrical-circuit cut-out. J. T. Beechlyn. No. 993,946; May 30; Sp. p. 6674; Gaz. vol. 166; p. 1201.
Electrical-circuit make-and-break mechanism. J. Walter. No. 1,002,886; Sept. 12; Sp. p. 1589; Gaz. vol. 170; p. 275.
Electrical-circuit make-and-break mechanism. J. Walter. No. 1,002,887; Sept. 12; Sp. p. 1592; Gaz. vol. 170; p. 276.
Electrical-circuit-switching device. J. D. Hilliard and C. E. Parsons. No. 1,009,748; Nov. 28; Sp. p. 4692; Gaz. vol. 172; p. 851.
Electrical circuits, Controlling. E. T. Childs. No. 994,976; June 13; Sp. p. 1942; Gaz. vol. 167; p. 341.
Electrical circuits, Protective device for. G. B. Rosenblatt. No. 999,875; Aug. 8; Sp. p. 1353; Gaz. vol. 169; p. 261.
Electrical clamp or adjuster. W. B. Stewart. No. 992,821; May 23; Sp. p. 4258; Gaz. vol. 166; p. 785.
Electrical condenser. A. K. Sloan, Jr. No. 995,728; June 20; Sp. p. 3561; Gaz. vol. 167; p. 627.
Electrical conductor. H. Geisenhöner and F. L. Stone. No. 996,579; June 27; Sp. p. 5441; Gaz. vol. 167; p. 952.
Electrical conductor. H. K. McIntyre. No. 1,008,423; Nov. 14; Sp. p. 1788; Gaz. vol. 172; p. 311.
Electrical-conductor fastening. R. H. Klauder. No. 1,001,864; Aug. 29; Sp. p. 5696; Gaz. vol. 169; p. 1042.
Electrical-conductor grip. R. B. Benjamin. No. 1,012,971; Dec. 26; Sp. p. 5739; Gaz. vol. 173; p. 1007.
Electrical-conductor hanger. T. Ware. No. 1,004,316; Sept. 26; Sp. p. 4695; Gaz. vol. 170; p. 830.
Electrical-conductor support. T. E. Murray. No. 998,112; July 18; Sp. p. 3295; Gaz. vol. 168; p. 593.
Electrical-conductor terminal or lug. C. R. Baird. No. 982,563; Jan. 24; Sp. p. 5258; Gaz. vol. 162; p. 907.
Electrical conductors, Automatic cut-out for. M. G. Newbould. No. 991,634; May 9; Sp. p. 1735; Gaz. vol. 166; p. 319.
Electrical conductors, Junction-box structure for. C. W. Davis. No. 990,235; Apr. 25; Sp. p. 4168; Gaz. vol. 165; p. 745.
Electrical conductors, Machine for covering. H. W. Fisher. No. 1,009,732; Nov. 28; Sp. p. 4653; Gaz. vol. 172; p. 845.
Electrical connection. J. M. Andersen. No. 985,241; Feb. 28; Sp. p. 4303; Gaz. vol. 163; p. 778.
Electrical connection. S. Sedoff. No. 991,030; May 2; Sp. p. 424; Gaz. vol. 166; p. 73.
Electrical connector. C. M. Steiner. No. 988,518; Apr. 4; Sp. p. 490; Gaz. vol. 165; p. 78.
Electrical-contact banks, Mold for. G. W. Lorimer. No. 1,009,426; Nov. 21; Sp. p. 4046; Gaz. vol. 172; p. 698.
Electrical control apparatus. W. M. Scott. No. 993,417; May 30; Sp. p. 5547; Gaz. vol. 166; p. 1019.
Electrical controller. J. G. P. Thomas. No. 1,005,084; Oct. 3; Sp. p. 1096; Gaz. vol. 171; p. 185.
Electrical controlling apparatus. O. H. and A. F. Pieper. No. 1,011,240; Dec. 12; Sp. p. 1893; Gaz. vol. 173; p. 327.
Electrical controlling means. H. W. Leonard. No. 1,003,924; Sept. 19; Sp. p. 3755; Gaz. vol. 170; p. 667.
Electrical-current arrester, Excessive-. M. E. Vaughn. No. 982,551; Jan. 24; Sp. p. 5243; Gaz. vol. 162; p. 904.
Electrical currents, Relaying. E. E. Clement. No. 1,003,337; Sept. 12; Sp. p. 2521; Gaz. vol. 170; p. 434.
Electrical distance control. A. Aichele. No. 992,628; May 16; Sp. p. 3865; Gaz. vol. 166; p. 689.
Electrical distribution system. A. S. Hubbard. No. 980,265; Jan. 3; Sp. p. 162; Gaz. vol. 162; p. 32.
Electrical distribution system. J. W. Jepson. No. 981,197; Jan. 10; Sp. p. 2319; Gaz. vol. 162; p. 382.
Electrical distribution system. J. W. Jepson. No. 981,198; Jan. 10; Sp. p. 2324; Gaz. vol. 162; p. 383.
Electrical distribution system. J. L. Woodbridge. No. 984,459; Feb. 14; Sp. p. 2592; Gaz. vol. 163; p. 438.
Electrical distribution system. J. Bijur. No. 984,467; Feb. 14; Sp. p. 2607; Gaz. vol. 163; p. 440.
Electrical distribution system. W. A. Turbayne. No. 987,194; Mar. 21; Sp. p. 3037; Gaz. vol. 164; p. 550.
Electrical distribution system. W. A. Turbayne. No. 987,270; Mar. 21; Sp. p. 3198; Gaz. vol. 164; p. 578.
Electrical distribution system. A. S. Hubbard. No. 987,300; Mar. 21; Sp. p. 3264; Gaz. vol. 164; p. 587.
Electrical distribution system. A. S. Hubbard. No. 987,301; Mar. 21; Sp. p. 3268; Gaz. vol. 164; p. 588.
Electrical distribution system. W. H. Sherbondy. No. 989,305; Apr. 11; Sp. p. 2145; Gaz. vol. 165; p. 366.
Electrical distribution system. R. M. Palmer. No. 991,080; May 2; Sp. p. 526; Gaz. vol. 166; p. 90.
Electrical distribution system. W. A. Turbayne. No. 991,105; May 2; Sp. p. 572; Gaz. vol. 166; p. 100.
Electrical distribution system. W. A. Turbayne. No. 991,106; May 2; Sp. p. 576; Gaz. vol. 166; p. 100.
Electrical distribution system. W. A. Turbayne. No. 991,107; May 2; Sp. p. 580; Gaz. vol. 166; p. 101.
Electrical distribution system. W. A. Turbayne. No. 991,108; May 2; Sp. p. 584; Gaz. vol. 166; p. 101.
Electrical distribution system. W. A. Turbayne. No. 991,109; May 2; Sp. p. 587; Gaz. vol. 166; p. 101.
Electrical distribution system. W. A. Turbayne. No. 991,110; May 2; Sp. p. 592; Gaz. vol. 166; p. 102.
Electrical distribution system. W. A. Turbayne. No. 991,111; May 2; Sp. p. 595; Gaz. vol. 166; p. 102.
Electrical distribution system. W. A. Turbayne. No. 991,112; May 2; Sp. p. 600; Gaz. vol. 166; p. 103.
Electrical distribution system. W. A. Turbayne. No. 991,114; May 2; Sp. p. 608; Gaz. vol. 166; p. 104.
Electrical distribution system. C. P. Steinmetz. No. 996,372; June 27; Sp. p. 5011; Gaz. vol. 167; p. 882.
Electrical distribution system. E. W. Stull. No. 996,894; July 4; Sp. p. 609; Gaz. vol. 168; p. 100.
Electrical distribution system. J. L. Woodbridge. No. 999,690; Aug. 1; Sp. p. 968; Gaz. vol. 169; p. 169.
Electrical distribution system. E. Thomson. No. 1,001,710; Aug. 29; Sp. p. 5366; Gaz. vol. 169; p. 989.
Electrical distribution system. A. S. Hubbard. No. 1,003,746; Sept. 19; Sp. p. 3407; Gaz. vol. 170; p. 607.
Electrical distribution system. A. S. Hubbard. No. 1,003,747; Sept. 19; Sp. p. 3410; Gaz. vol. 170; p. 608.
Electrical distribution system. E. Van Wagenen. No. 1,003,829; Sept. 19; Sp. p. 3562; Gaz. vol. 170; p. 633.
Electrical distribution system. A. M. Taylor. No. 1,004,826; Oct. 3; Sp. p. 591; Gaz. vol. 171; p. 98.
Electrical distribution system. H. L. Van Valkenburg. No. 1,005,904; Oct. 17; Sp. p. 2918; Gaz. vol. 171; p. 530.
Electrical distribution system. H. L. Van Valkenburg. No. 1,005,905; Oct. 17; Sp. p. 2924; Gaz. vol. 171; p. 539.
Electrical distribution system. H. W. Cheney. No. 1,005,937; Oct. 17; Sp. p. 3013; Gaz. vol. 171; p. 542.
Electrical distribution system. W. H. Clarke. No. 1,006,631; Oct. 24; Sp. p. 4582; Gaz. vol. 171; p. 817.
Electrical distribution system. A. S. Hubbard. No. 1,009,311; Nov. 21; Sp. p. 3761; Gaz. vol. 172; p. 656.
Electrical distribution system. A. S. Hubbard. No. 1,009,666; Nov. 21; Sp. p. 4504; Gaz. vol. 172; p. 776.
Electrical distribution system. W. E. Ver Planck. No. 1,010,466; Dec. 5; Sp. p. 132; Gaz. vol. 173; p. 25.
Electrical distribution system. A. S. Hubbard and E. Van Wagenen. No. 1,010,497; Dec. 5; Sp. p. 214; Gaz. vol. 173; p. 35.
Electrical distribution system including a metering panel-board, Metering. F. F. Skeel. No. 987,650; Mar. 21; Sp. p. 3961; Gaz. vol. 164; p. 706.
Electrical effluvia, Apparatus for producing and utilizing. L. Gerard. No. 982,587; Jan. 24; Sp. p. 5305; Gaz. vol. 162; p. 915.
Electrical energy into mechanical energy, Apparatus for transforming. H. B. Smith. No. 993,561; May 30; Sp. p. 5865; Gaz. vol. 166; p. 1069.
Electrical energy into mechanical movement, Means for converting. W. Jandus. No. 992,427; May 16; Sp. p. 3441; Gaz. vol. 166; p. 619.
Electrical-energy-transmission system. C. D. Lanning. No. 1,002,711; Sept. 5; Sp. p. 1166; Gaz. vol. 170; p. 176.
Electrical exchange systems, Calling device for. A. H. Dyson. No. 1,000,902; Aug. 15; Sp. p. 3622; Gaz. vol. 169; p. 651.
Electrical fitting. H. C. Barber. No. 1,000,141; Aug. 8; Sp. p. 1962; Gaz. vol. 169; p. 353.
Electrical fixtures, Tool for removing or attaching. B. D. Walker and F. Cook. No. 996,690; July 4; Sp. p. 184; Gaz. vol. 168; p. 32.
Electrical furnace. H. Nathusius. No. 1,000,838; Aug. 15; Sp. p. 3494; Gaz. vol. 169; p. 629.
Electrical generators and motors, Method of and apparatus for cooling. F. G. Baum. No. 987,536; Mar. 21; Sp. p. 3725; Gaz. vol. 164; p. 666.
Electrical heater. J. B. Fey. No. 989,900; Apr. 18; Sp. p. 3442; Gaz. vol. 165; p. 600.
Electrical hoop. P. Bramson. No. 989,944; Apr. 18; Sp. p. 3553; Gaz. vol. 165; p. 617.
Electrical immersion-heater. W. Hanscom and A. L. Langerman. No. 1,004,165; Sept. 26; Sp. p. 4406; Gaz. vol. 170; p. 779.
Electrical indicator. E. W. Bishop. No. 994,712; June 13; Sp. p. 1319; Gaz. vol. 167; p. 250.
Electrical instruments, Holding and releasing device for. H. B. Taylor. No. 1,008,571; Nov. 14; Sp. p. 2143; Gaz. vol. 172; p. 365.
Electrical junction-box, Underground. S. J. Lisberger and C. J. Wilson. No. 1,010,278; Nov. 28; Sp. p. 5770; Gaz. vol. 172; p. 1030.
Electrical machinery, Protector for polyphase. J. G. Clemens. No. 1,012,599; Dec. 26; Sp. p. 4875; Gaz. vol. 173; p. 878.
Electrical motor. H. A. Rhodes. No. 981,881; Jan. 17; Sp. p. 3790; Gaz. vol. 162; p. 641.

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Electrical oscillations, Apparatus for producing undamped. E. S. Beck. No. 999,543; Aug. 1; Sp. p. 697; Gaz. vol. 169; p. 119.
Electrical oscillations, Vacuum discharge-gap for producing. H. F. Waite. No. 981,503; Jan. 10; Sp. p. 3005; Gaz. vol. 162; p. 490.
Electrical precipitator and amalgamator. J. Frey. No. 1,009,143; Nov. 21; Sp. p. 3362; Gaz. vol. 172; p. 595.
Electrical protector, Thermal. C. A. Rolfe. No. 1,005,475; Oct. 10; Sp. p. 1969; Gaz. vol. 171; p. 347.
Electrical pull-socket. E. H. Freeman. No. 995,244; June 13; Sp. p. 2475; Gaz. vol. 167; p. 429.
Electrical pull-socket. D. P. Wolhaupter. No. 1,001,330; Aug. 22; Sp. p. 4589; Gaz. vol. 169; p. 830.
Electrical pull-socket. E. H. Freeman. No. 1,009,401; Nov. 21; Sp. p. 3988; Gaz. vol. 172; p. 689.
Electrical-pull-socket chain-guide. E. H. Freeman. No. 1,002,574; Sept. 5; Sp. p. 880; Gaz. vol. 170; p. 130.
Electrical pull-sockets, Chain-guide for. D. P. Wolhaupter. No. 989,220; Apr. 11; Sp. p. 1948; Gaz. vol. 165; p. 337.
Electrical pull-sockets Chain-guide for. D. P. Wolhaupter. No. 991,684; May 9; Sp. p. 1862; Gaz. vol. 166; p. 336.
Electrical receptacle. J. S. Crossley. No. 994,980; June 13; Sp. p. 1953; Gaz. vol. 167; p. 342.
Electrical receptacle, Weatherproof. F. J. Russell. No. 992,993; May 23; Sp. p. 4642; Gaz. vol. 166; p. 847.
Electrical regenerative control apparatus and system. J. C. Macfarlane and H. Burge. No. 980,979; Jan. 10; Sp. p. 1834; Gaz. vol. 162; p. 306.
Electrical regenerative control apparatus and system. J. C. Macfarlane and H. Burge. No. 998,364; July 18; Sp. p. 3866; Gaz. vol. 168; p. 686.
Electrical regulating apparatus. W. A. Turbayne. No. 987,193; Mar. 21; Sp. p. 3032; Gaz. vol. 164; p. 550.
Electrical resistance. J. F. McElroy. No. 982,735; Jan. 24; Sp. p. 5599; Gaz. vol. 162; p. 963.
Electrical resistance. F. Bölling. No. 995,435; June 20; Sp. p. 2925; Gaz. vol. 167; p. 522.
Electrical socket, Waterproof. E. H. Freeman. No. 984,130; Feb. 14; Sp. p. 1902; Gaz. vol. 163; p. 326.
Electrical switch. W. A. Turbayne. No. 987,192; Mar. 21; Sp. p. 3029; Gaz. vol. 164; p. 549.
Electrical switch. J. L. Wright. No. 991,590; May 9; Sp. p. 1649; Gaz. vol. 166; p. 303.
Electrical switch. C. L. Terry and P. Townsend. No. 1,006,148; Oct. 17; Sp. p. 3474; Gaz. vol. 171; p. 616.
Electrical switch, Pendent. W. J. Gagnon. No. 997,054; July 4; Sp. p. 983; Gaz. vol. 168; p. 157.
Electrical system, Constant-potential. D. R. Lovejoy. No. 1,008,482; Nov. 14; Sp. p. 1944; Gaz. vol. 172; p. 332.
Electrical terminal connector. R. H. Manson. No. 985,821; Mar. 7; Sp. p. 104; Gaz. vol. 164; p. 22.
Electrical testing device. C. A. Hetherington. No. 988,192; Mar. 28; Sp. p. 5176; Gaz. vol. 164; p. 918.
Electrical treatment of liquids and semiliquids, Apparatus for the. V. M. Wright. No. 987,845; Mar. 28; Sp. p. 4403; Gaz. vol. 164; p. 801.
Electrical variations, Means for reproducing. P. C. Hewitt. No. 991,304; May 2; Sp. p. 1023; Gaz. vol. 166; p. 172.
Electrically-controlled elevator. C. O. Pearson and A. Sundh. No. 985,699; Feb. 28; Sp. p. 5326; Gaz. vol. 163; p. 934.
Electrically-heated implements, Safety device for. H. A. Hills. No. 1,008,411; Nov. 14; Sp. p. 1769; Gaz. vol. 172; p. 308.
Electricity, Automatic distributer for. H. A. Wolff. No. 989,465; Apr. 11; Sp. p. 2478; Gaz. vol. 165; p. 419.
Electricity by chemical means, Apparatus for generating. R. N. Hudson and E. C. Brice. No. 1,001,406; Aug. 22; Sp. p. 4754; Gaz. vol. 169; p. 857.
Electricity-generating apparatus. E. C. Brice and R. N. Hudson. No. 989,892; Apr. 18; Sp. p. 3423; Gaz. vol. 165; p. 597.
Electricity-meter. E. Evans. No. 1,010,416; Dec. 5; Sp. p. 26; Gaz. vol. 173; p. 6.
Electricity-meters, Appliance for preventing fraud in connection with. G. Berardi. No. 999,196; Aug. 1; Sp. p. 6; Gaz. vol. 169; p. 3.
Electricity-meters, Removable coin-actuated apparatus for use with. K. Kretz. No. 1,006,233; Oct. 17; Sp. p. 3669; Gaz. vol. 171; p. 646.
Electricity, Removing static. W. H. Chapman. No. 983,536; Feb. 7; Sp. p. 588; Gaz. vol. 163; p. 95.
Electrifying device. Head-. H. Aub. No. 999,945; Aug. 8; Sp. p. 1507; Gaz. vol. 169; p. 285.
Electrocuting-trap. H. Hertzberg, A. A. Low, and M. J. Wohl. No. 1,001,400; Aug. 22; Sp. p. 4741; Gaz. vol. 169; p. 855.
Electrode. E. C. Speiden. No. 1,007,151; Oct. 31; Sp. p. 5732; Gaz. vol. 171; p. 1051.
Electrode. E. Weintraub. No. 1,009,608; Nov. 21; Sp. p. 4398; Gaz. vol. 172; p. 758.
Electrode and making it, Storage-battery. W. Morrison. No. 1,008,852; Nov. 14; Sp. p. 2743; Gaz. vol. 172; p. 462.
Electrode and making it, Storage-battery. W. Morrison. No. 1,008,853; Nov. 14; Sp. p. 2745; Gaz. vol. 172; p. 462.
Electrode and making it, Storage-battery. W. Morrison. No. 1,008,854; Nov. 14; Sp. p. 2746; Gaz. vol. 172; p. 462.
Electrode, Arc-lamp. E. J. Guay. No. 998,687; July 25; Sp. p. 4548; Gaz. vol. 168; p. 829.
Electrode, Arc-lamp. W. T. Conn. No. 1,002,645; Sept. 5; Sp. p. 1031; Gaz. vol. 170; p. 154.
Electrode, Arc-lamp. G. Egly. No. 1,009,291; Nov. 21; Sp. p. 3727; Gaz. vol. 172; p. 649.
Electrode, Arc-lamp. J. T. H. Dempster. No. 1,010,402; Nov. 28; Sp. p. 6035; Gaz. vol. 172; p. 1069.
Electrode, Arc-light. B. Monasch. No. 1,010,942; Dec. 5; Sp. p. 1205; Gaz. vol. 173; p. 190.
Electrode arrester, Liquid-. E. E. F. Creighton. No. 1,004,532; Sept. 26; Sp. p. 5132; Gaz. vol. 170; p. 903.
Electrode, Binoxid-of-hydrogen. W. Morrison. No. 1,006,774; Oct. 24; Sp. p. 4871; Gaz. vol. 171; p. 865.
Electrode, Carbon. M. W. Allen. No. 1,008,002; Nov. 7; Sp. p. 777; Gaz. vol. 172; p. 123.
Electrode, Cast. K. Tornberg. No. 998,865; July 25; Sp. p. 4959; Gaz. vol. 168; p. 891.
Electrode-cover for electric furnaces. J. L. K. Snyder. No. 1,010,001; Nov. 28; Sp. p. 5211; Gaz. vol. 172; p. 935.
Electrode, Electric-furnace. C. Hering. No. 999,719; Aug. 1; Sp. p. 1035; Gaz. vol. 169; p. 178.
Electrode for electric furnaces. W. T. Gibbs and R. A. Witherspoon. No. 1,003,354; Sept. 12; Sp. p. 2559; Gaz. vol. 170; p. 440.
Electrode for flaming-arc lamps. M. W. Allen and W. T. Conn. No. 982,407; Jan. 24; Sp p. 4927; Gaz. vol. 162; p. 853.
Electrode for flaming-arc lamps. C. W. Hill. No. 1,007,869; Nov. 7; Sp. p. 515; Gaz. vol. 172; p. 78.
Electrode for galvanic elements, Carbon. S. Benkö. No. 1,011,559; Dec. 12; Sp. p. 2615; Gaz. vol. 173; p. 442.
Electrode frame and hanger. C. B. Schoenmehl. No. 982,097; Jan. 17; Sp. p. 4292; Gaz. vol. 162; p. 715.
Electrode, Porous-cup. P. J. Kamperuyk. No. 982,729; Jan. 24; Sp. p. 5588; Gaz. vol. 162; p. 961.
Electrode, Storage-battery. P. J. Kamperdyk. No. 983,062; Jan. 31; Sp. p. 6348; Gaz. vol. 162; p. 1103.
Electrodes, Applying protecting-glaze to carbon. J. L. K. Snyder. No. 1,000,761; Aug. 15; Sp. p. 3328; Gaz. vol. 169; p. 601.
Electrodes for arc-lamps, Manufacture of. A. Blondel and G. Dobkevitch. No. 991,475; May 9; Sp. p. 1383; Gaz. vol. 166; p. 261.
Electrodes for secondary batteries or storage-cells, Manufacture of. V. de Karavodine. No. 1,004,793; Oct. 3; Sp. p. 524; Gaz. vol. 171; p. 87.
Electrodes for the electrolytic refining of metals, Arrangement of. F. M. Köhler. No. 1,005,718; Oct. 10; Sp. p. 2517; Gaz. vol. 171; p. 432.
Electrodes for use in alkaline accumulators, Manufacturing iron. A. T. K. Estelle. No. 983,430; Feb. 7; Sp. p. 367; Gaz. vol. 163; p. 61.
Electrodeposition, Appliance for producing articles by. F. I. Gibbs. No. 1,002,258; Sept. 5; Sp. p. 159; Gaz. vol. 170; p. 20.
Electrodeposition, Producing articles by. F. I. Gibbs. No. 984,760; Feb. 21; Sp. p. 3283; Gaz. vol. 163; p. 579.
Electrodeposition, Producing metallic vessels by. F. I. Gibbs. No. 998,085; July 18; Sp. p. 3227; Gaz. vol. 168; p. 583.
Electrodynamic brake, Alternating-current-motor. W. N. Dickinson, Jr. No. 1,002,233; Sept. 5; Sp. p. 89; Gaz. vol. 170; p. 11.
Electrolysis, Multiple-needle holder for. E. W. Johnson. No. 991,208; May 2; Sp. p. 814; Gaz. vol. 166; p. 138.
Electrolysis of fused alkali chlorids, Apparatus for. E. Steinbuch. No. 1,012,470; Dec. 19; Sp. p. 4600; Gaz. vol. 173; p. 788.
Electrolysis, Preventing alternating-current. J. L. R. Hayden. No. 1,010,907; Dec. 5; Sp. p. 1132; Gaz. vol. 173; p. 178.
Electrolyte and method of depositing zinc. E. F. Kern. No. 999,568; Aug. 1; Sp. p. 744; Gaz. vol. 169; p. 128.
Electrolyte for aluminum cells. F. W. Peek, Jr. No. 1,008,860; Nov. 14; Sp. p. 2755; Gaz. vol. 172; p. 464.
Electrolyte for depositing zinc. E. F. Kern. No. 999,655; Aug. 1; Sp. p. 902; Gaz. vol. 169; p. 157.
Electrolyte for electrolytic cells. J. L. R. Hayden. No. 996,583; June 27; Sp. p. 5451; Gaz. vol. 167; p. 953.
Electrolytic apparatus. J. W. Kenevel. No. 1,000,608; Aug. 15; Sp. p. 3010; Gaz. vol. 169; p. 549.
Electrolytic apparatus. W. B. Thorpe. No. 1,002,882; Sept. 12; Sp. p. 1581; Gaz. vol. 170; p. 274.
Electrolytic apparatus. L. H. A. B. M. Hazard-Flamand. No. 1,003,456; Sept. 19; Sp. p. 2763; Gaz. vol. 170; p. 506.
Electrolytic apparatus. W. B. Thorpe. No. 1,005,672; Oct. 10; Sp. p. 2432; Gaz. vol. 171; p. 418.
Electrolytic apparatus. G. O. Seward and F. von Kügelgen. No. 1,007,897; Nov. 7; Sp. p. 567; Gaz. vol. 172; p. 88.
Electrolytic apparatus. H. Croston. No. 1,009,133; Nov. 21; Sp. p. 3344; Gaz. vol. 172; p. 591.
Electrolytic cell. F. H. Briggs. No. 981,371; Jan. 10; Sp. p. 2736; Gaz. vol. 162; p. 444.

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Electrolytic cell. J. R. Crocker. No. 982,037; Jan. 17; Sp. p. 4166; Gaz. vol. 162; p. 695.
Electrolytic cell. A. S. Hickley. No. 982,493; Jan. 24; Sp. p. 5122; Gaz. vol. 162; p. 884.
Electrolytic cell. V. E. Goodwin. No. 987,622; Mar. 21; Sp. p. 3900; Gaz. vol. 164; p. 695.
Electrolytic cell. T. Griswold, Jr. No. 987,717; Mar. 28; Sp. p. 4140; Gaz. vol. 164; p. 757.
Electrolytic cell. G. O. Seward and F. von Kügelgen. (Reissue.) No. 13,277; July 25; Sp. p. 5646; Gaz. vol. 168; p. 1006.
Electrolytic cell. H. S. Hatfield. No. 1,001,589; Aug. 22; Sp. p. 5084; Gaz. vol. 169; p. 916.
Electrolytic cell. P. McDorman. No. 1,001,876; Aug. 29; Sp. p. 5733; Gaz. vol. 169; p. 1047.
Electrolytic cell. W. S. Heltzen. No. 1,002,989; Sept. 12; Sp. p. 1799; Gaz. vol. 170; p. 312.
Electrolytic cells for the electrolysis of alkaline salts. M. Wildermann. No. 998,063; July 18; Sp. p. 3173; Gaz. vol. 168; p. 576.
Electrolytic device. W. B. Thorpe. No. 1,005,671; Oct. 10; Sp. p. 2426; Gaz. vol. 171; p. 417.
Electrolytic interrupter. H. Gernsback. No. 988,767; Apr. 4; Sp. p. 1029; Gaz. vol. 165; p. 164.
Electrolytic meter. E. Weintraub. No. 1,006,612; Oct. 24; Sp. p. 4547; Gaz. vol. 171; p. 811.
Electrolytic process. R. J. McNitt. No. 995,476; June 20; Sp. p. 3011; Gaz. vol. 167; p. 536.
Electrolytic process of producing compounds. C. E. Acker. (Reissue.) No. 13,316; Nov. 21; Sp. p. 4593; Gaz. vol. 172; p. 791.
Electrolytic protection. A. B. Herrick. No. 1,003,604; Sept. 19; Sp. p. 3097; Gaz. vol. 170; p. 558.
Electrolyzing apparatus. J. H. Fischer, E. G. Luening, and A. W. Collins. No. 1,004,249; Sept. 26; Sp. p. 4571; Gaz. vol. 170; p. 808.
Electrolyzing nickel-sulfate solutions. H. H. Dow, W. S. Gates, and A. E. Schaefer. No. 1,003,092; Sept. 12; Sp. p. 2009; Gaz. vol. 170; p. 346.
Electromagnet. W. Kaisling. No. 995,255; June 13; Sp. p. 2504; Gaz. vol. 167; p. 433.
Electromagnet. H. O. Rugh. No. 998,552; July 18; Sp. p. 4222; Gaz. vol. 168; p. 748.
Electromagnet. C. E. Scribner. No. 1,012,020; Dec. 19; Sp. p. 3651; Gaz. vol. 173; p. 637.
Electromagnet, Alternating-current. D. L. Lindquist. No. 987,146; Mar. 21; Sp. p. 2895; Gaz. vol. 164; p. 532.
Electromagnet, Alternating-current. D. L. Lindquist. No. 1,005,855; Oct. 17; Sp. p. 2818; Gaz. vol. 171; p. 513.
Electromagnet, Alternating-current. D. L. Lindquist. No. 1,005,856; Oct. 17; Sp. p. 2820; Gaz. vol. 171; p. 513.
Electromagnet, Alternating-current. D. L. Lindquist. No. 1,005,857; Oct. 17; Sp. p. 2821; Gaz. vol. 171; p. 513.
Electromagnet-coil. F. W. Reeves. No. 1,000,440; Aug. 15; Sp. p. 2616; Gaz. vol. 169; p. 487.
Electromagnets from alternating-current sources, Means for operating. G. M. Willis. No. 995,646; June 20; Sp. p. 3394; Gaz. vol. 167; p. 598.
Electromagnetic apparatus. J. P. Coleman. No. 984,748; Feb. 21; Sp. p. 3257; Gaz. vol. 163; p. 575.
Electromagnetic apparatus. M. Walker. No. 992,300; May 16; Sp. p. 3160; Gaz. vol. 166; p. 575.
Electromagnetic brake. J. N. Mahoney. No. 985,819; Mar. 7; Sp. p. 100; Gaz. vol. 164; p. 21.
Electromagnetic device. W. K. Howe. No. 985,676; Feb. 28; Sp. p. 5241; Gaz. vol. 163; p. 925.
Electromagnetic device for alternating currents. C. D. Lanning. No. 1,002,712; Sept. 5; Sp. p. 1181; Gaz. vol. 170; p. 177.
Electromagnetic instrument. W. K. Menns. No. 1,008,484; Nov. 14; Sp. p. 1948; Gaz. vol. 172; p. 333.
Electromagnetic switch. H. B. Collier. No. 1,000,074; Aug. 8; Sp. p. 1791; Gaz. vol. 169; p. 329.
Electromagnetic switch. H. W. Sheehy. No. 1,001,313; Aug. 22; Sp. p. 4556; Gaz. vol. 169; p. 824.
Electromagnetic switch, Alternating-current. D. L. Lindquist. No. 981,931; Jan. 17; Sp. p. 3951; Gaz. vol. 162; p. 660.
Electromagnetic switch, Alternating-current. D. Larson. No. 1,005,237; Oct. 10; Sp. p. 1434; Gaz. vol. 171; p. 262.
Electromagnetic-wave communication, Meter for. G. W. Pickard. No. 993,316; May 23; Sp. p. 5303; Gaz. vol. 166; p. 652.
Electromagnetic waves, Apparatus for receiving. F. A. Hart. No. 984,762; Feb. 21; Sp. p. 3290; Gaz. vol. 163; p. 580.
Electromagnetically-operated switch. C. B. Larzelere. No. 982,146; Jan. 17; Sp. p. 4374; Gaz. vol. 162; p. 731.
Electromechanical alarm. E. Aufiero. No. 988,537; Apr. 4; Sp. p. 528; Gaz. vol. 165; p. 84.
Electromechanical controller. P. F. McAvinney. No. 1,005,260; Oct. 10; Sp. p. 1491; Gaz. vol. 171; p. 271.
Electromechanical indicator. P. F. McAvinney. No. 1,005,259; Oct. 10; Sp. p. 1488; Gaz. vol. 171; p. 270.
Electromechanical selector. E. G. Godfree. No. 997,990; July 18; Sp. p. 3004; Gaz. vol. 168; p. 549.
Electrometallurgical furnace. F. Louvrier. No. 989,169; Apr. 11; Sp. p. 1847; Gaz. vol. 165; p. 320.
Electrometallurgical products, Treating. T. B. Allen. No. 1,001,572; Aug. 22; Sp. p. 5049; Gaz. vol. 169; p. 910.
Electromotor. B. F. Hutches, Jr. No. 1,005,842; Oct. 17; Sp. p. 2784; Gaz. vol. 171; p. 507.
Electroplated wooden body and similar porous article. J. H. Pryor. No. 1,000,037; Aug. 8; Sp. p. 1690; Gaz. vol. 169; p. 317.
Electroplating apparatus. M. Reid. No. 981,004; Jan. 10; Sp. p. 1900; Gaz. vol. 162; p. 315.
Electroplating apparatus. S. S. Jacobsen. No. 981,196; Jan. 10; Sp. p. 2316; Gaz. vol. 162; p. 382.
Electroplating apparatus. J. Weber, Jr., and O. Cope. No. 1,004,119; Sept. 26; Sp. p. 4294; Gaz. vol. 170; p. 763.
Electroplating-bath, Device for supporting articles in an. M. L. Packer. No. 1,005,870; Oct. 17; Sp. p. 2851; Gaz. vol. 171; p. 518.
Electroplating devices, Rack for. W. H. Rogers. No. 990,200; Apr. 18; Sp. p. 4080; Gaz. vol. 165; p. 701.
Electroplating-machine. C. G. Miller. No. 986,303; Mar. 7; Sp. p. 1131; Gaz. vol. 164; p. 183.
Electroplating-machine. J. W. Heaphy. No. 986,823; Mar. 14; Sp. p. 2267; Gaz. vol. 164; p. 392.
Electroplating-rack. J. F. Kitchen. No. 1,010,638; Dec. 5; Sp. p. 535; Gaz. vol. 173; p. 84.
Electroplating-rack. J. F. Kitchen. No. 1,010,639; Dec. 5; Sp. p. 536; Gaz. vol. 173; p. 84.
Electroplating-rack. C. E. Leffel. No. 1,010,647; Dec. 5; Sp. p. 550; Gaz. vol. 173; p. 87.
Electroplating-rack. C. E. Leffel. No. 1,010,648; Dec. 5; Sp. p. 551; Gaz. vol. 173; p. 87.
Electroplating with zinc. A. A. Lemêtre. No. 1,012,665; Dec. 26; Sp. p. 5020; Gaz. vol. 173; p. 901.
Electropneumatic brake. L. A. Larivière. No. 992,214; May 16; Sp. p. 2929; Gaz. vol. 166; p. 545.
Electrostatic machine. F. Ghilarducci. No. 1,011,939; Dec. 19; Sp. p. 3469; Gaz. vol. 173; p. 607.
Electrostatic separator. C. Q. Payne. No. 997,322; July 11; Sp. p. 1533; Gaz. vol. 168; p. 279.
Electrotherapeutic apparatus. M. G. McElhinney. No. 1,006,864; Oct. 24; Sp. p. 5091; Gaz. vol. 171; p. 898.
Electrotherapeutic apparatus. C. E. Campbell. No. 1,012,326; Dec. 19; Sp. p. 4325; Gaz. vol. 173; p. 742.
Electrotherapeutic device. J. B. Wantz. No. 1,003,676; Sept. 19; Sp. p. 3241; Gaz. vol. 170; p. 584.
Electrothermal controlling apparatus. W. O. Haymond and J. O. Potter. No. 987,228; Mar. 21; Sp. p. 3101; Gaz. vol. 164; p. 562.
Electrothermal garments, Foot-warming attachment for. P. E. Charles. No. 990,206; Apr. 18; Sp. p. 4088; Gaz. vol. 165; p. 703.
Electrothermal switch. J. Erickson. No. 1,009,834; Nov. 28; Sp. p. 4877; Gaz. vol. 172; p. 880.
Electrotype and making same. A. Elliott and M. Shaen. No. 994,705; June 6; Sp. p. 1282; Gaz. vol. 167; p. 209.
Electrotype-mold forms, Mixture for coating. A. J. Williams. No. 997,589; July 11; Sp. p. 2055; Gaz. vol. 168; p. 367.
Electrotypes and other printing-plates, Composite mounting-board for. F. A. Poole. No. 995,715; June 20; Sp. p. 3531; Gaz. vol. 167; p. 622.
Electrotypes, Bending. E. Flower. No. 988,763; Apr. 4; Sp. p. 1024; Gaz. vol. 165; p. 162.
Electrotypes, Preparing molds for. G. E. Dunton. No. 998,240; July 18; Sp. p. 3563; Gaz. vol. 168; p. 638.
Electrotyping, Composition for treating molds used in. G. E. Dunton. No. 993,157; May 23; Sp. p. 4989; Gaz. vol. 166; p. 902.
Electrotyping, Composition of matter to be used in forming molds employed in the art of. G. E. Dunton. No. 996,751; July 4; Sp. p. 300; Gaz. vol. 168; p. 52.
Electrotyping-molds, Treating. G. E. Dunton. No. 994,826; June 13; Sp. p. 1612; Gaz. vol. 167; p. 291.
Electrotyping-molds, Treating. G. E. Dunton. No. 1,002,658; Sept. 5; Sp. p. 1056; Gaz. vol. 170; p. 158.
Electrotyping, Treating molds used in. G. E. Dunton. No. 1,005,007; Oct. 3; Sp. p. 962; Gaz. vol. 171; p. 160.
Elevated carrier. J. C. Fitzgerald. No. 985,577; Feb. 28; Sp. p. 5051; Gaz. vol. 163; p. 893.
Elevated carrier. A. H. Neller. No. 992,036; May 9; Sp. p. 2542; Gaz. vol. 166; p. 452.
Elevated carrier. A. H. Neller. No. 999,178; July 25; Sp. p. 5607; Gaz. vol. 168; p. 998.
Elevated carrier. T. J. Driver. No. 1,000,242; Aug. 8; Sp. p. 2174; Gaz. vol. 169; p. 387.
Elevated carrier. F. L. Robertson. No. 1,009,930; Nov. 28; Sp. p. 5049; Gaz. vol. 172; p. 911.
Elevated carriers, Safety guard and brake for. J. C. Fitzgerald and C. K. Murray. No. 994,096; May 30; Sp. p. 6979; Gaz. vol. 166; p. 1252.
Elevating and fruit-cleaning machine, Combined. A. J. Nye. No. 997,081; July 4; Sp. p. 1031; Gaz. vol. 168; p. 165.
Elevating and handling dirt, &c., Means for. J. J. Valiquett and C. F. Roush. No. 1,004,715; Oct. 3; Sp. p. 371; Gaz. vol. 171; p. 61.
Elevating and lowering device. F. M. Zimmerman. No. 986,888; Mar. 14; Sp. p. 2410; Gaz. vol. 164; p. 417.
Elevating apparatus. A. Ray. No. 984,706; Feb. 21; Sp. p. 3165; Gaz. vol. 163; p. 560.
Elevating apparatus. W. H. Hunt. No. 1,012,203; Dec. 19; Sp. p. 4073; Gaz. vol. 173; p. 699.

Alphabetical list of inventions—Continued.

Elevating, transporting, and discharging material, Apparatus for. O. Johnson. No. 985,417; Feb. 28; Sp. p. 4681; Gaz. vol. 163; p. 835.
Elevating, transporting, and discharging material, Apparatus for. O. Johnson. No. 994,004; May 30; Sp. p. 6792; Gaz. vol. 166; p. 1220.
Elevating water, mercury, or other liquids, Device for. J. R. Hall. No. 1,002,057; Aug. 29; Sp. p. 6112; Gaz. vol. 169; p. 1104.
Elevator: *See* Ashes-elevator; Belt-drive elevator; Carrier-system elevator; Coal-elevator; Direct-connected elevator; Dumping-elevator; Electrically-controlled elevator; Grain-elevator; Hay-elevator; Liquid-elevator; Mail-elevator; Mine-elevator; Oil-elevator; Pneumatic elevator; Rope-drive elevator; Sidewalk-elevator; Vessel-elevator; Water-elevator; Well-casing elevator.
Elevator. C. O. Pearson. No. 985,698; Feb. 28; Sp. p. 5316; Gaz. vol. 163; p. 934.
Elevator. P. Wright. No. 987,663; Mar. 21; Sp. p. 3991; Gaz. vol. 164; p. 711.
Elevator. M. E. Neenan. No. 988,016; Mar. 28; Sp. p. 4834; Gaz. vol. 164; p. 861.
Elevator. S. Ballard. No. 989,552; Apr. 18; Sp. p. 2700; Gaz. vol. 165; p. 481.
Elevator. C. O. Pearson. No. 990,493; Apr. 25; Sp. p. 4790; Gaz. vol. 165; p. 837.
Elevator. S. L. Goldman. No. 991,148; May 2; Sp. p. 681; Gaz. vol. 166; p. 116.
Elevator. E. Schuchardt. No. 991,549; May 9; Sp. p. 1554; Gaz. vol. 166; p. 288.
Elevator. R. E. Snowden. No. 995,921; June 20; Sp. p. 3991; Gaz. vol. 167; p. 693.
Elevator. J. M. Goodknight. No. 998,610: July 25; Sp. p. 4374; Gaz. vol. 168; p. 810.
Elevator. C. D. Seeberger. No. 999,885; Aug. 8; Sp. p. 1382; Gaz. vol. 169; p. 265.
Elevator. F. Schwarz. No. 1,000,953; Aug. 15; Sp. p. 3729; Gaz. vol. 169; p. 668.
Elevator. G. N. St. Clair. No. 1,008,996; Nov. 14; Sp. p. 3051; Gaz. vol. 172; p. 507.
Elevator. S. Johnson. No. 1,009,318; Nov. 21; Sp. p. 3777; Gaz. vol. 172; p. 658.
Elevator. J. H. Michener, Jr. No. 1,010,297; Nov. 28; Sp. p. 5813; Gaz. vol. 172; p. 1036.
Elevator. R. F. Edmond and F. O. Norell. No. 1,010,879; Dec. 5; Sp. p. 1068; Gaz. vol. 173; p. 167.
Elevator. C. O. Pearson. No. 1,012,003; Dec. 19; Sp. p. 3616; Gaz. vol. 173; p. 631.
Elevator and carrier apparatus. J. M. Boyd. No. 980,862; Jan. 3; Sp. p. 1461; Gaz. vol. 162; p. 234.
Elevator and dumb-waiter systems, Push-button control for. E. L. Dunn. No. 987,446; Mar. 21; Sp. p. 3564; Gaz. vol. 164; p. 635.
Elevator and loader. W. C. Evans. No. 1,004,863; Oct. 3; Sp. p. 684; Gaz. vol. 171; p. 112.
Elevator attachment. C. Nielsen. No. 992,438; May 16; Sp. p. 3462; Gaz. vol. 166; p. 623.
Elevator automatic guard. F. Jira. No. 1,008,917; Nov. 14; Sp. p. 2868; Gaz. vol. 172; p. 482.
Elevator automatic safety-catch. A. Wallace. No. 1,002,947; Sept. 12; Sp. p. 1721; Gaz. vol. 170; p. 298.
Elevator-bucket deflector. G. N. St. Clair. No. 1,008,995; Nov. 14; Sp. p. 3050; Gaz. vol. 172; p. 507.
Elevator-car-door safety device. S. Bisceglia. No. 992,153; May 16; Sp. p. 2810; Gaz. vol. 166; p. 523.
Elevator-cars, Electromagnetic braking mechanism for. H. M. P. Murphy. No. 981,671; Jan. 17; Sp. p. 3337; Gaz. vol. 162; p. 567.
Elevator control, Traction-. R. C. Smith. No. 981,806; Jan. 17; Sp. p. 3618; Gaz. vol. 162; p. 614.
Elevator-controlling means. A. Amory. No. 982,457; Jan. 24; Sp. p. 5058; Gaz. vol. 162; p. 873.
Elevator-controlling mechanism. H. A. McGrory. No. 1,002,294; Sept. 5; Sp. p. 249; Gaz. vol. 170; p. 33.
Elevator device. R. P. Lumley and H. G. Hillman. No. 981,442; Jan. 10; Sp. p. 2902; Gaz. vol. 162; p. 469.
Elevator device, Safety. M. Elyovszky. No. 986,371; Mar. 7; Sp. p. 1293; Gaz. vol. 164; p. 209.
Elevator device, Safety. S. Kenyeres. No. 1,003,050; Sept. 12; Sp. p. 1914; Gaz. vol. 170; p. 330.
Elevator-door. W. B. Gervais. No. 998,242; July 18; Sp. p. 3566; Gaz. vol. 168; p. 639.
Elevator-door-controlling mechanism. H. C. Randall. No. 997,848; July 11; Sp. p. 2668; Gaz. vol. 168; p. 458.
Elevator-door lock. F. E. Town. No. 986,327; Mar. 7; Sp. p. 1186; Gaz. vol. 164; p. 192.
Elevator-door lock. J. E. Boyce. No. 991,691; May 9; Sp. p. 1875; Gaz. vol. 166; p. 339.
Elevator-door lock. P. Montgomery. No. 1,009,774; Nov. 28; Sp. p. 4748; Gaz. vol. 172; p. 860.
Elevator-door mechanism. J. L. Kail. No. 993,302; May 23; Sp. p. 5278; Gaz. vol. 166; p. 947.
Elevator-door safety device. B. Forbes. No. 989,774; Apr. 18; Sp. p. 3170; Gaz. vol. 165; p. 557.
Elevator-door safety device. H. A. McGrory. No. 1,007,475; Oct. 31; Sp. p. 6410; Gaz. vol. 171; p. 1164.
Elevator-doors, Automatic actuator for. H. G. Peelle. No. 987,011; Mar. 14; Sp. p. 2633; Gaz. vol. 164; p. 455.
Elevator-drag. C. F. Clements. No. 993,650; May 30; Sp. p. 6059; Gaz. vol. 166; p. 1100.
Elevator-fender. J. J. Coffey. No. 1,004,744; Oct. 3; Sp. p. 427; Gaz. vol. 171; p. 71.
Elevator for ash-cans and the like. R. Messlin. No. 986,483; Mar. 14; Sp. p. 1547; Gaz. vol. 164; p. 276.
Elevator-gate, Automatic. J. F. Finan. No. 989,957; Apr. 18; Sp. p. 3573; Gaz. vol. 165; p. 620.
Elevator-gate mechanism, Electrically-operated. G. Colby. No. 1,010,863; Dec. 5; Sp. p. 1040; Gaz. vol. 173; p. 162.
Elevator-guide lubricator. B. O. Umhau. No. 996,168; June 27; Sp. p. 4498; Gaz. vol. 167; p. 813.
Elevator-guide lubricator. F. G. Phillips. No. 998,633; July 25; Sp. p. 4430; Gaz. vol. 168; p. 810.
Elevator-guide lubricator. B. E. Marshall. No. 1,000,532; Aug. 15; Sp. p. 2813; Gaz. vol. 169; p. 519.
Elevator-guide lubricator. O. Berger. No. 1,007,422; Oct. 31; Sp. p. 6307; Gaz. vol. 171; p. 1147.
Elevator-guide shoe. C. Hatfield. No. 1,002,514; Sept. 5; Sp. p. 745; Gaz. vol. 170; p. 109.
Elevator-guide shoe. F. V. Winters. No. 1,003,566; Sept. 19; Sp. p. 3022; Gaz. vol. 170; p. 545.
Elevator-hatch sliding cover, Self-operating. G. and S. Walker. No. 997,481; July 11; Sp. p. 1823; Gaz. vol. 168; p. 330.
Elevator-heads, Back-stop for. F. R. McQueen. No. 984,586; Feb. 21; Sp. p. 2900; Gaz. vol. 163; p. 516.
Elevator interlocking mechanism. J. S. Mucklé. No. 981,463; Jan. 10; Sp. p. 2938; Gaz. vol. 162; p. 476.
Elevator-ladder. B. Stanley. No. 1,010,526; Dec. 5; Sp. p. 279; Gaz. vol. 173; p. 44.
Elevator-lock. J. B. McKeown. No. 990,281; Apr. 25; Sp. p. 4272; Gaz. vol. 165; p. 762.
Elevator meter and indicator. C. L. Duenkel. No. 993,766; May 30; Sp. p. 6324; Gaz. vol. 166; p. 1141.
Elevator-operating mechanism. E. Carlson. No. 983,426; Feb. 7; Sp. p. 354; Gaz. vol. 163; p. 59.
Elevator-operating system. E. L. Dunn. No. 987,673; Mar. 21; Sp. p. 4026; Gaz. vol. 164; p. 715.
Elevator plant, Hydraulic-. C. O. Pearson. No. 1,012,004; Dec. 19; Sp. p. 3621; Gaz. vol. 173; p. 631.
Elevator protective device. W. N. Cipperly. No. 990,226; Apr. 25; Sp. p. 4145; Gaz. vol. 165; p. 742.
Elevator retarding device, Plunger-. G. John. No. 986,392; Mar. 7; Sp. p. 1341; Gaz. vol. 164; p. 216.
Elevator safety appliance. H. W. Sayles. No. 982,536; Jan. 24; Sp. p. 5212; Gaz. vol. 162; p. 899.
Elevator safety appliance. S. Bisceglia and L. N. Elkan. No. 996,050; June 27; Sp. p. 4252; Gaz. vol. 167; p. 773.
Elevator safety appliance. P. W. Sommer. No. 998,416; July 18; Sp. p. 3965; Gaz. vol. 168; p. 702.
Elevator safety attachment. J. R. Inkster. No. 994,003; May 30; Sp. p. 6789; Gaz. vol. 166; p. 1220.
Elevator safety attachment. W. B. Thomas. No. 995,500; June 20; Sp. p. 3057; Gaz. vol. 167; p. 545.
Elevator safety attachment. W. B. Thomas. No. 1,002,881; Sept. 12; Sp. p. 1580; Gaz. vol. 170; p. 274.
Elevator safety attachment. M. F. Lawson. No. 1,007,579; Oct. 31; Sp. p. 6663; Gaz. vol. 171; p. 1200.
Elevator safety device. A. Kampfe. No. 980,284; Jan. 3; Sp. p. 200; Gaz. vol. 162; p. 39.
Elevator safety device. E. G. Wall. No. 980,460; Jan. 3; Sp. p. 607; Gaz. vol. 162; p. 100.
Elevator safety device. H. G. Hillman. No. 981,424; Jan. 10; Sp. p. 2871; Gaz. vol. 162; p. 463.
Elevator safety device. A. Németh. No. 983,079; Jan. 31; Sp. p. 6381; Gaz. vol. 162; p. 1109.
Elevator safety device. P. A. Dupcza. No. 988,759; Apr. 4; Sp. p. 1011; Gaz. vol. 165; p. 160.
Elevator safety device. L. Gyorffy. No. 988,771; Apr. 4; Sp. p. 1037; Gaz. vol. 165; p. 165.
Elevator safety device. T. W. Jenkins. No. 989,907; Apr. 18; Sp. p. 3456; Gaz. vol. 165; p. 602.
Elevator safety device. F. J. Crouch and H. E. Lloyd. No. 990,343; Apr. 25; Sp. p. 4425; Gaz. vol. 165; p. 783.
Elevator safety device. R. C. Smith. No. 991,658; May 9; Sp. p. 1797; Gaz. vol. 166; p. 327.
Elevator safety device. A. J. Bautz. No. 995,654; June 20; Sp. p. 3410; Gaz. vol. 167; p. 600.
Elevator safety device. S. Bisceglia. No. 996,051; June 27; Sp. p. 4255; Gaz. vol. 167; p. 773.
Elevator safety device. J. Leopold. No. 998,357; July 18; Sp. p. 3842; Gaz. vol. 168; p. 682.
Elevator safety device. J. M. Faulkner. No. 1,002,048; Aug. 29; Sp. p. 6098; Gaz. vol. 169; p. 1102.
Elevator safety device. D. J. Sullivan. No. 1,003,215; Sept. 12; Sp. p. 2270; Gaz. vol. 170; p. 390.
Elevator safety device. J. J. Gross. No. 1,007,096; Oct. 31; Sp. p. 5599; Gaz. vol. 171; p. 1029.
Elevator safety device. S. F. Glimm. No. 1,008,255; Nov. 7; Sp. p. 1306; Gaz. vol. 172; p. 214.
Elevator safety device. A. Pechy. No. 1,009,561; Nov. 21; Sp. p. 4313; Gaz. vol. 172; p. 743.
Elevator safety device. T. W. Jenkins. No. 1,009,972; Nov. 28; Sp. p. 5136; Gaz. vol. 172; p. 925.
Elevator safety device. K. Szentivanyi. No. 1,010,090; Nov. 28; Sp. p. 5398; Gaz. vol. 172; p. 967.
Elevator safety device. J. F. Dean. No. 1,011,758; Dec. 12; Sp. p. 3053; Gaz. vol. 173; p. 510.
Elevator safety device, Automatic. H. P. May. No. 982,519; Jan. 24; Sp. p. 5181; Gaz. vol. 162; p. 893.

Elevator safety-floor. A. Z. Wilson. No. 982,333; Jan. 24; Sp. p. 4775; Gaz. vol. 162; p. 827.
Elevator safety-gate. H. L. Brayton. No. 1,007,428; Oct. 31; Sp. p. 6328; Gaz. vol. 171; p. 1149.
Elevator safety-stop. E. Koppell. No. 990,052; Apr. 18; Sp. p. 3771; Gaz. vol. 165; p. 652.
Elevator safety-stop. J. Hoffer. No. 1,005,837; Oct. 17; Sp. p. 2776; Gaz. vol. 171; p. 505.
Elevator-shaft door. J. Rashkin. No. 993,103; May 23; Sp. p. 4889; Gaz. vol. 166; p. 886.
Elevator-shaft-door lock. A. A. Page. No. 995,710; June 20; Sp. p. 3521; Gaz. vol. 167; p. 620.
Elevator signal system. D. M. Perine. No. 998,034; July 18; Sp. p. 3110; Gaz. vol. 168; p. 566.
Elevator signaling apparatus. J. M. Graham. No. 991,973; May 9; Sp. p. 2429; Gaz. vol. 166; p. 432.
Elevator signaling apparatus, Automatic. A. A. Fuller. No. 1,012,623; Dec. 26; Sp. p. 4935; Gaz. vol. 173; p. 887.
Elevator stop device, Plunger-. L. Atwood. No. 1,005,132; Oct. 10; Sp. p. 1191; Gaz. vol. 171; p. 224.
Elevator suspension means. E. P. Kilcoyne. No. 996,861; July 4; Sp. p. 543; Gaz. vol. 168; p. 89.
Elevator system. J. W. Mabbs. No. 1,001,870; Aug. 29; Sp. p. 5713; Gaz. vol. 169; p. 1044.
Elevator system, Alternating-current. A. Sundh. No. 986,243; Mar. 7; Sp. p. 1018; Gaz. vol. 164; p. 164.
Elevators, Automatic controller for electric. W. McDonald. No. 992,226; May 16; Sp. p. 2980; Gaz. vol. 166; p. 549.
Elevators, Bottom automatic limit-stop for plunger-. F. C. Furlow. No. 1,011,338; Dec. 12; Sp. p. 2131; Gaz. vol. 173; p. 364.
Elevators, Combined brake and tensioning device for traction-. A. Sundh. No. 981,897; Jan. 17; Sp. p. 3842; Gaz. vol. 162; p. 648.
Elevators, Device for automatically charging the delivery-buckets of. W. Reubold. No. 1,003,511; Sept. 19; Sp. p. 2877; Gaz. vol. 170; p. 525.
Elevators, Electric control for. E. L. Dunn. No. 989,584; Apr. 18; Sp. p. 2775; Gaz. vol. 165; p. 493.
Elevators, Liquid-container and valve mechanism therefor particularly applicable for use in water and like. A. E. Hodder. No. 982,364; Jan. 24; Sp. p. 4842; Gaz. vol. 162; p. 838.
Elevators, Pilot-light system for. P. T. Kenny. No. 991,854; May 9; Sp. p. 2194; Gaz. vol. 166; p. 391.
Elevators, Safety slow-down and stop motion for electric. D. Larson. No. 982,074; Jan. 17; Sp. p. 4249; Gaz. vol. 162; p. 708.
Elevators, Speed-regulator and stop-motion device for plunger-. F. C. Furlow. No. 1,005,190; Oct. 10; Sp. p. 1321; Gaz. vol. 171; p. 245.
Elevators, Speed-regulator for plunger-. G. I. Alden. No. 1,001,118; Aug. 22; Sp. p. 4159; Gaz. vol. 169; p. 761.
Elevators, Tension leverage for rope-drive. D. L. Lindquist. No. 1,011,215; Dec. 12; Sp. p. 1836; Gaz. vol. 173; p. 318.
Ellipsograph-machine. F. J. Baker. No. 1,007,910; Nov. 7; Sp. p. 595; Gaz. vol. 172; p. 92.
Emasculator. I. Pasley. No. 998,920; July 25; Sp. p. 5083; Gaz. vol. 168; p. 912.
Embalmer's drainage-tube. F. E. Hollins. No. 998,339; July 18; Sp. p. 3807; Gaz. vol. 168; p. 677.
Embalming instrument. W. H. Turner, Jr. No. 985,865; Mar. 7; Sp. p. 223; Gaz. vol. 164; p. 37.
Embalming-tube. J. C. Flagg. No. 1,008,128; Nov. 7; Sp. p. 1030; Gaz. vol. 172; p. 167.
Embankment-protector. R. Toennes. No. 991,041; May 2; Sp. p. 445; Gaz. vol. 166; p. 77.
Embossing apparatus, Hot and rilievo. F. C. Wickel. No. 1,009,457; Nov. 21; Sp. p. 4110; Gaz. vol. 172; p. 709.
Embossing device. F. C. Wickel. No. 1,009,456; Nov. 21; Sp. p. 4108; Gaz. vol. 172; p. 708.
Embossing-machine. R. Mitchell. No. 994,686; June 6; Sp. p. 1249; Gaz. vol. 167; p. 202.
Embossing-press. S. K. White. No. 995,509; June 20; Sp. p. 3077; Gaz. vol. 167; p. 549.
Embossing-press. A. E. Stigberg. No. 998,427; July 18; Sp. p. 3986; Gaz. vol. 168; p. 707.
Embossing-press. E. R. Collins. No. 1,007,923; Nov. 7; Sp. p. 631; Gaz. vol. 172; p. 97.
Embossing press, Monogram-. F. C. Scadding. No. 980,683; Jan. 3; Sp. p. 1102; Gaz. vol. 162; p. 176.
Embroidering-machine. A. Bosshard. No. 997,365; July 11; Sp. p. 1617; Gaz. vol. 168; p. 293.
Embroidering-machine. J. J. Knecht. No. 1,000,180; Aug. 8; Sp. p. 2053; Gaz. vol. 169; p. 365.
Embroidering-machine. A. Russell. No. 1,004,912; Oct. 3; Sp. p. 803; Gaz. vol. 171; p. 128.
Embroidering-machine, Jacquard. R. Zahn. No. 995,394; June 13; Sp. p. 2821; Gaz. vol. 167; p. 479.
Embroidering-machine, Jacquard. R. Zahn. No. 995,395; June 13; Sp. p. 2824; Gaz. vol. 167; p. 480.
Embroidering-machine shuttle. M. Schoenfeld. No. 989,301; Apr. 11; Sp. p. 2135; Gaz. vol. 165; p. 365.
Embroidering-machine shuttle mechanism. M. Schoenfeld. No. 991,173; May 2; Sp. p. 735; Gaz. vol. 166; p. 125.
Embroidering-machine shuttle mechanism. M. Schoenfeld. No. 991,656; May 9; Sp. p. 1793; Gaz. vol. 166; p. 326.
Embroidering-machine shutties, Filling-machine for. A. Blum. No. 984,532; Feb. 21; Sp. p. 2790; Gaz. vol. 163; p. 499.
Embroidering-machine shuttles, Protective device for. M. Schoenfeld. No. 990,301; Apr. 25; Sp. p. 4318; Gaz. vol. 165; p. 769.
Embroidering-machine stopping-gear. K. Keller. No. 991,155; May 2; Sp. p. 701; Gaz. vol. 166; p. 119.
Embroidering-machines, Device for holding the material in. M. Schoenfeld. No. 1,008,736; Nov. 14; Sp. p. 2508; Gaz. vol. 172; p. 422.
Embroidering-machines, Fabric-frame for. A. Bosshard. No. 981,836; Jan. 17; Sp. p. 3704; Gaz. vol. 162; p. 626.
Embroidering-machines, Jacquard mechanism for. R. Zahn. No. 1,010,475; Dec. 5; Sp. p. 157; Gaz. vol. 173; p. 28.
Embroidering-machines, Jacquard pattern-gear for. J. J. Knecht. No. 1,005,436; Oct. 10; Sp. p. 1887; Gaz. vol. 171; p. 334.
Embroidering-machines, Shuttle mechanism for. M. Schoenfeld. No. 996,285; June 27; Sp. p. 4804; Gaz. vol. 167; p. 852.
Embroidering-machines, Shuttle mechanism for. M. Schoenfeld. No. 1,003,521; Sept. 19; Sp. p. 2893; Gaz. vol. 170; p. 529.
Embroidering-machines, Thread-protecting device for. M. Schoenfeld. No. 1,012,104; Dec. 19; Sp. p. 3851; Gaz. vol. 173; p. 666.
Embroidery-cutting machine. E. Egli. No. 989,770; Apr. 18; Sp. p. 3165; Gaz. vol. 165; p. 556.
Embroidery-frame. A. Rominger. No. 985,453; Feb. 28; Sp. p. 4780; Gaz. vol. 163; p. 849.
Embroidery-frame. J. B. Oelkers. No. 999,847; Aug. 8; Sp. p. 1287; Gaz. vol. 169; p. 251.
Embroidery-holder. A. F. Collins. No. 997,545; July 11; Sp. p. 1958; Gaz. vol. 168; p. 350.
Embroidery-hoop. S. W. Gibbs. No. 989,597; Apr. 18; Sp. p. 2812; Gaz. vol. 165; p. 497.
Embroidery-hoop. A. N. Thomas. No. 998,657; July 25; Sp. p. 4483; Gaz. vol. 168; p. 818.
Embroidery-hoop. H. L. Totten and T. F. Snyder. No. 1,010,534; Dec. 5; Sp. p. 299; Gaz. vol. 173; p. 47.
Embroidery-machine. T. H. Joseph, L. Larsen, and F. W. Smith. No. 990,198; Apr. 18; Sp. p. 4073; Gaz. vol. 165; p. 700.
Embroidery-machine. J. A. Groebli. No. 996,238; June 27; Sp. p. 4691; Gaz. vol. 167; p. 836.
Embroidery-machines, Needle-thread-guiding device for shuttle. V. Kobler. No. 1,008,650; Nov. 14; Sp. p. 2327; Gaz. vol. 172; p. 393.
Emergency and straight-air brake, Duplex-pressure. J. S. Custer. No. 1,009,286; Nov. 21; Sp. p. 3715; Gaz. vol. 172; p. 647.
Emergency-brake. G. A. Morris. No. 981,670; Jan. 17; Sp. p. 3336; Gaz. vol. 162; p. 566.
Emergency-brake. G. W. Taylor. No. 999,531; Aug. 1; Sp. p. 667; Gaz. vol. 169; p. 114.
Emergency-brake. C. Clark. No. 1,007,268; Oct. 31; Sp. p. 5986; Gaz. vol. 171; p. 1092.
Emergency-brake, High-pressure. W. V. Turner. No. 1,012,760; Dec. 26; Sp. p. 5221; Gaz. vol. 173; p. 935.
Emergency-coupling. J. O'Neil. No. 1,000,190; Aug. 8; Sp. p. 2076; Gaz. vol. 169; p. 369.
Emery-wheel dresser. E. J. Brisben. No. 990,193; Apr. 18; Sp. p. 4066; Gaz. vol. 165; p. 698.
Emulsifier. J. C. Alexander. No. 994,554; June 6; Sp. p. 940; Gaz. vol. 167; p. 156.
Emulsifier. E. C. Wood. No. 1,003,848; Sept. 19; Sp. p. 3598; Gaz. vol. 170; p. 640.
Emulsifying apparatus. H. N. Brawner, Jr. No. 1,002,127; Aug. 29; Sp. p. 6235; Gaz. vol. 169; p. 1127.
Enamel, Making mottled. J. H. Danver. No. 1,001,511; Aug. 22; Sp. p. 4930; Gaz. vol. 169; p. 890.
Enamel, White. C. Rosenzweig. No. 995,724; June 20; Sp. p. 3552; Gaz. vol. 167; p. 625.
Enameling machine, Cardboard-. B. C. Hawkes. No. 997,672; July 11; Sp. p. 2243; Gaz. vol. 168; p. 396.
Enameling-table. C. W. Ebeling. No. 996,226; June 27; Sp. p. 4669; Gaz. vol. 167; p. 832.
End-cell switch. J. M. Andersen. No. 996,960; July 4; Sp. p. 751; Gaz. vol. 168; p. 123.
End-gate. H. J. Anderson. No. 982,560; Jan. 24; Sp. p. 5254; Gaz. vol. 162; p. 906.
End-gate. G. Lindquist. No. 993,260; May 23; Sp. p. 5202; Gaz. vol. 166; p. 933.
End-gate. H. Hall. No. 1,006,937; Oct. 24; Sp. p. 5250; Gaz. vol. 171; p. 923.
End-gate and lifting-jack. O. Bucklin. No. 982,792; Jan. 31; Sp. p. 5740; Gaz. vol. 162; p. 1012.
End-gate and scoop-board, Combination. W. F. Wolken. No. 998,144; July 18; Sp. p. 3352; Gaz. vol. 168; p. 604.
End-gate attachment. F. M. Carney. No. 983,121; Jan. 31; Sp. p. 6462; Gaz. vol. 162; p. 1123.
End-gate fastener. A. D. Wagner. No. 990,931; May 2; Sp. p. 222; Gaz. vol. 166; p. 39.
End-gate fastener, Wagon-. F. Budlong. No. 993,954; May 30; Sp. p. 6688; Gaz. vol. 166; p. 1203.
End-gate, Wagon. C. C. McColly. No. 1,013,035; Dec. 26; Sp. p. 5881; Gaz. vol. 173; p. 1028.
Endoscope. R. H. Wappler. No. 998,310; July 18; Sp. p. 3750; Gaz. vol. 168; p. 666.

Alphabetical list of inventions—Continued.

Endoscope. R. H. Wappler. No. 1,001,786; Aug. 29; Sp. p. 5526; Gaz. vol. 169; p. 1014.
Endoscope. R. H. Wappler. No. 1,001,787; Aug. 29; Sp. p. 5528; Gaz. vol. 169; p. 1015.
Engine: *See* Atmospheric engine; Automobile-engine; Beating-engine; Blowing-engine; Chemical-engine; Combustion-engine; Compound engine; Compound hydro-steam engine; Compound or multiple-expansion engine; Compound steam-engine; Compressed-air engine; Compression-engine; Condensing-engine; Cycle-engine; Dental engine; Direct-acting engine; Dividing-engine; Electric reciprocating engine; Expansion-engine; Explosion-engine; Explosive-engine; Explosive and other engine; Fire-engine; Fluid-operated engine; Fluid-pressure engine; Gas-engine; Gas or combustion engine; Gas or oil engine; Gasolene-engine; Hoisting-engine; Hot-air engine; Hydraulic engine; Hydrocarbon-engine; Interchangeable engine; Internal-combustion engine; Internal-combustion gas-turbine engine; Internal-combustion pumping-engine; Internal-combustion rotary engine; Locomotive-engine; Marine engine; Multiple-cylinder engine; Oil-engine; Oscillating engine; Pulp-engine; Pulp-beating engine; Reaction-engine; Road-engine; Rock-drilling engine; Rotary engine; Rotary compound explosive-engine; Rotary explosion-engine; Rotary explosive-engine; Rotary gas-engine; Rotary impact-engine; Rotary internal-combustion engine; Rotary steam-engine; Rotary steam explosive-engine; Self-oiling engine; Steam-engine; Traction-engine; Turbine-engine; Turbine wind-engine; Turbo-displacement engine; Valve-engine; Vapor-engine.
Engine. J. Z. Savoie. No. 981,316; Jan. 10; Sp. p. 2615; Gaz. vol. 162; p. 425.
Engine. D. R. Scholes. No. 987,177; Mar. 21; Sp. p. 2992; Gaz. vol. 164; p. 543.
Engine. A. W. Winberg. No. 991,680; May 9; Sp. p. 1853; Gaz. vol. 166; p. 335.
Engine. C. H. Ellis. No. 995,423; June 13; Sp. p. 2888; Gaz. vol. 167; p. 490.
Engine. G. W. Baker. No. 996,045; June 27; Sp. p. 4245; Gaz. vol. 167; p. 771.
Engine. J. A. Menard. No. 996,357; June 27; Sp. p. 4978; Gaz. vol. 167; p. 877.
Engine. C. H. Talley. No. 996,434; June 27; Sp. p. 5163; Gaz. vol. 167; p. 904.
Engine. E. James. No. 996,648; July 4; Sp. p. 111; Gaz. vol. 168; p. 20.
Engine. O. E. Osburn. No. 997,694; July 11; Sp. p. 2281; Gaz. vol. 168; p. 404.
Engine. J. H. Ebersole. No. 998,284; July 18; Sp. p. 3682; Gaz. vol. 168; p. 656.
Engine. G. W. Baker. No. 999,142; July 25; Sp. p. 5544; Gaz. vol. 168; p. 985.
Engine. G. W. Baker. No. 999,143; July 25; Sp. p. 5546; Gaz. vol. 168; p. 986.
Engine. L. O. Gilliland. No. 999,777; Aug. 8; Sp. p. 1152; Gaz. vol. 169; p. 228.
Engine. R. W. English. No. 1,003,348; Sept. 12; Sp. p. 2545; Gaz. vol. 170; p. 438.
Engine. A. R. Adams. No. 1,005,763; Oct. 10; Sp. p. 2606; Gaz. vol. 171; p. 449.
Engine. W. I. Phifer. No. 1,006,269; Oct. 17; Sp. p. 3752; Gaz. vol. 171; p. 660.
Engine. W. H. Cameron. No. 1,006,431; Oct. 17; Sp. p. 4101; Gaz. vol. 171; p. 715.
Engine. C. A. Blume. No. 1,009,639; Nov. 21; Sp. p. 4449; Gaz. vol. 172; p. 767.
Engine. J. L. Johnson. No. 1,009,669; Nov. 21; Sp. p. 4509; Gaz. vol. 172; p. 777.
Engine annunciator, Explosive-. R. C. Dewey. No. 989,132; Apr. 11; Sp. p. 1758; Gaz. vol. 165; p. 307.
Engine attachment, Gasolene-. E. J. Balke. No. 990,330; Apr. 25; Sp. p. 4401; Gaz. vol. 165; p. 779.
Engine attachment, Internal-combustion-. A. Iber. No. 1,008,155; Nov. 7; Sp. p. 1079; Gaz. vol. 172; p. 177.
Engine attachment, Traction-. E. V. McCulloch. No. 983,386; Feb. 7; Sp. p. 279; Gaz. vol. 163; p. 47.
Engine bed-plate, Beating-. A. F. and O. B. Bahr. No. 993,494; May 30; Sp. p. 5721; Gaz. vol. 166; p. 1046.
Engine-brakes, Apparatus for retarding the release of. W. A. Pendry. No. 1,006,497; Oct. 24; Sp. p. 4276; Gaz. vol. 171; p. 768.
Engine control. H. Hertzberg and M. J. Wohl. No. 1,006,751; Oct. 24; Sp. p. 4817; Gaz. vol. 171; p. 856.
Engine controller, Gas-. W. L. Gile. No. 1,001,015; Aug. 22; Sp. p. 3935; Gaz. vol. 169; p. 724.
Engine-controlling apparatus, Automatic electrically-governed. H. D. Hinckley. No. 996,854; July 4; Sp. p. 523; Gaz. vol. 168; p. 86.
Engine controlling device, Internal-combustion-. O. Podhajský. No. 986,754; Mar. 14; Sp. p. 2117; Gaz. vol. 164; p. 370.
Engine cooler, Internal-combustion-. C. L. Van Schoick. No. 984,982; Feb. 21; Sp. p. 3697; Gaz. vol. 163; p. 653.
Engine-cooling device. G. Wolke. No. 981,733; Jan. 17; Sp. p. 3476; Gaz. vol. 162; p. 589.
Engine-cooling means, Internal-combustion-. R. F. E. Okrassa. No. 1,003,290; Sept. 12; Sp. p. 2429; Gaz. vol. 170; p. 418.
Engine-cooling system, Explosive-. O. B. Jacobs. No. 990,742; Apr. 25; Sp. p. 5337; Gaz. vol. 165; p. 921.
Engine coupling-pole, Traction-. F. Harvat. No. 993,597; May 30; Sp. p. 5939; Gaz. vol. 166; p. 1082.
Engine-crank. J. W. Bracken. No. 995,948; June 20; Sp. p. 4042; Gaz. vol. 167; p. 703.
Engine-crank-case attachment, Gas-. E. E. Hans. No. 994,389; June 6; Sp. p. 609; Gaz. vol. 167; p. 103.
Engine crank-cases, Cooling attachment for steam-. F. B. Northrop. No. 988,493; Apr. 4; Sp. p. 429; Gaz. vol. 165; p. 70.
Engine-cranking device. C. V. Pollock. No. 986,311; Mar. 7; Sp. p. 1156; Gaz. vol. 164; p. 186.
Engine-cranking device, Explosion-. W. D. Townley. No. 1,011,096; Dec. 5; Sp. p. 1531; Gaz. vol. 173; p. 242.
Engine-cranking device, Gas-. C. R. Engel. No. 992,864; May 23; Sp. p. 4366; Gaz. vol. 166; p. 802.
Engine-cranking device, Gas-. W. Van Scoter. No. 1,012,116; Dec. 19; Sp. p. 3881; Gaz. vol. 173; p. 671.
Engine-cranking device, Mechanical. F. and G. P. Hull. No. 995,464; June 20; Sp. p. 2979; Gaz. vol. 167; p. 532.
Engine-cranking lever, Gas-. G. W. Hoyt. No. 1,009,068; Nov. 21; Sp. p. 3217; Gaz. vol. 172; p. 570.
Engine cross-head. R. W. Bryan. No. 987,853; Mar. 28; Sp. p. 4422; Gaz. vol. 164; p. 804.
Engine-cylinder lining. E. N. Sorensen. No. 983,409; Feb. 7; Sp. p. 323; Gaz. vol. 163; p. 54.
Engine draft attachment, Traction-. C. and J. Hildebrand. No. 993,370; May 30; Sp. p. 5455; Gaz. vol. 166; p. 1004.
Engine-driving means, Rotary-. E. D. Lewis. No. 996,593; June 27; Sp. p. 5468; Gaz. vol. 167; p. 956.
Engine-driving mechanism, Beating-. S. R. Wagg. No. 983,187; Jan. 31; Sp. p. 6568; Gaz. vol. 162; p. 1143.
Engine-driving mechanism, Jordan-. J. A. Noble. No. 1,011,835; Dec. 12; Sp. p. 3223; Gaz. vol. 173; p. 537.
Engine-driving mechanism, Traction-. H. A. Howard. No. 1,012,552; Dec. 19; Sp. p. 4768; Gaz. vol. 173; p. 818.
Engine-driving wheel, Traction-. J. Brey. No. 1,005,505; Oct. 10; Sp. p. 2036; Gaz. vol. 171; p. 358.
Engine dynamo sets, Ignition system for gas-. E. M. Tarmin. No. 994,288; June 6; Sp. p. 382; Gaz. vol. 167; p. 65.
Engine for portable pneumatic reversible drilling-machines. C. Schofield. No. 1,006,883; Oct. 24; Sp. p. 5140; Gaz. vol. 171; p. 905.
Engine-frame. C. N. Scott. No. 984,161; Feb. 14; Sp. p. 1961; Gaz. vol. 163; p. 337.
Engine frame and steering device, Traction-. W. L. Slimp. No. 993,893; May 30; Sp. p. 6569; Gaz. vol. 166; p. 1184.
Engine fuel-feeding means, Explosive-. O. B. Jacobs. No. 990,741; Apr. 25; Sp. p. 5333; Gaz. vol. 165; p. 920.
Engine guide, Traction-. W. Meacham. No. 984,437; Feb. 14; Sp. p. 2545; Gaz. vol. 163; p. 431.
Engine heat-radiating structure. J. W. Hasburg. No. 987,361; Mar. 21; Sp. p. 3380; Gaz. vol. 164; p. 607.
Engine-heating system, Explosion-. S. J. Lukaszewski. No. 1,007,710; Nov. 7; Sp. p. 128; Gaz. vol. 172; p. 20.
Engine hitch, Spreader-bars for traction-. T. J. Chandonnet. No. 990,031; Apr. 18; Sp. p. 3730; Gaz. vol. 165; p. 645.
Engine-igniter. W. K. Bassford. No. 1,002,357; Sept. 5; Sp. p. 414; Gaz. vol. 170; p. 58.
Engine igniter, Internal-combustion-. C. Messerschmid. No. 1,008,178; Nov. 7; Sp. p. 1123; Gaz. vol. 172; p. 185.
Engine ignition apparatus, Hydrocarbon-. A. Loomis. No. 1,011,977; Dec. 19; Sp. p. 3556; Gaz. vol. 173; p. 621.
Engine-indicator. M. Arndt. No. 984,732; Feb. 21; Sp. p. 3222; Gaz. vol. 163; p. 570.
Engine-indicator. J. F. Gill. No. 991,843; May 9; Sp. p. 2173; Gaz. vol. 166; p. 387.
Engine-indicators, Reducing-wheel for. W. S. Mayers. No. 1,010,064; Nov. 28; Sp. p. 5340; Gaz. vol. 172; p. 958.
Engine-jack. G. W. Flad. No. 1,000,674; Aug. 15; Sp. p. 3153; Gaz. vol. 169; p. 571.
Engine-leveling device, Traction-. D. T. Brown. No. 981,373; Jan. 10; Sp. p. 2739; Gaz. vol. 162; p. 445
Engine lubricating and packing system, Explosive-. R. S. Trott. No. 992,458; May 16; Sp. p. 3496; Gaz. vol. 166; p. 629.
Engine-lubricating system. E. Gerber. No. 1,012,071; Dec. 19; Sp. p. 3777; Gaz. vol. 173; p. 654.
Engine lubrication apparatus, Steam-. A. M. Mille. No. 992,229; May 16; Sp. p. 2985; Gaz. vol. 166; p. 550.
Engine-lubricator. U. S. Greer. No. 996,922; July 4; Sp. p. 669; Gaz. vol. 168; p. 110.
Engine-muffler. E. Troike. No. 990,686; Apr. 25; Sp. p. 5226; Gaz. vol. 165; p. 902.
Engine-muffler. L. C. Smoot and W. R. Masterson. No. 1,003,531; Sept. 19; Sp. p. 2917; Gaz. vol. 170; p. 533.
Engine muffler, Internal-combustion-. O. C. Kreis, Jr. No. 981,770; Jan. 17; Sp. p. 3550; Gaz. vol. 162; p. 602.
Engine of self-propelled vehicles or boats. C. J. Montgomery. No. 1,006,973; Oct. 24; Sp. p. 5318; Gaz. vol. 171; p. 934.

Alphabetical list of inventions—Continued.

Engine or motor. G. Lehberger. No. 999,047; July 25; Sp. p. 5381; Gaz. vol. 168; p. 957.
Engine plant, Air-. M. Thibault and M. Samwold. No. 1,002,943; Sept. 12; Sp. p. 1715; Gaz. vol. 170; p. 296.
Engine-plowing with two engines, Continuous. F. Gibás. No. 1,003,353; Sept. 12; Sp. p. 2557; Gaz. vol. 170; p. 440.
Engine primer, Gasolene-. C. E. Arnold. No. 992,327; May 16; Sp. p. 3222; Gaz. vol. 166; p. 585.
Engine-priming apparatus, Automobile-. C. H. Smith. No. 1,011,257; Dec. 12; Sp. p. 1939; Gaz. vol. 173; p. 334.
Engine-priming device, Gas-. A. C. Sargent. No. 1,009,185; Nov. 21; Sp. p. 3451; Gaz. vol. 172; p. 610.
Engine regulator, Pumping-. W. K. Richardson. No. 1,009,343; Nov. 21; Sp. p. 3830; Gaz. vol. 172; p. 667.
Engine reversing-gear and speed-changer, Steam-. T. T. Waggoner. No. 989,456; Apr. 11; Sp. p. 2456; Gaz. vol. 165; p. 415.
Engine-reversing mechanism, Explosive-. F. A. Gagnon and G. H. Watt. No. 1,009,023; Nov. 14; Sp. p. 3113; Gaz. vol. 172; p. 518.
Engine-reversing mechanism, Steam-. J. A. Toliver. No. 991,673; May 9; Sp. p. 1843; Gaz. vol. 166; p. 332.
Engine safety-crank, Explosive-. J. D. Bowne. No. 996,608; July 4; Sp. p. 17; Gaz. vol. 168; p. 5.
Engine safety device, Steam-. W. B. Kollar. No. 984,935; Feb. 21; Sp. p. 3620; Gaz. vol. 163; p. 638.
Engine self-starting device, Internal-combustion-. G. C. Goodhart. No. 1,009,503; Nov. 21; Sp. p. 4207; Gaz. vol. 172; p. 724.
Engine-shaft check. E. Stewart. No. 1,012,176; Dec. 19; Sp. p. 4010; Gaz. vol. 173; p. 691.
Engine spark-plug, Internal-combustion-. R. S. Thwaite. No. 984,454; Feb. 14; Sp. p. 2582; Gaz. vol. 163; p. 437.
Engine sparker, Explosive-. E. Canedy. No. 982,473; Jan. 24; Sp. p. 5086; Gaz. vol. 162; p. 877.
Engine sparking igniter, Internal-combustion-. C. A. Stickney. No. 1,001,702; Aug. 29; Sp. p. 5349; Gaz. vol. 169; p. 987.
Engine speed-regulator, Gas-. A. H. Thomas. No. 1,005,362; Oct. 10; Sp. p. 1733; Gaz. vol. 171; p. 309.
Engine speed-regulator, Internal-combustion-. T. C. Menges. No. 980,658; Jan. 3; Sp. p. 1056; Gaz. vol. 162; p. 167.
Engine-starter. J. W. Biddinger. No. 987,105; Mar. 21; Sp. p. 2805; Gaz. vol. 164; p. 516.
Engine-starter. J. W. Fitzgerald. No. 988,635; Apr. 4; Sp. p. 746; Gaz. vol. 165; p. 119.
Engine-starter. C. H. Smith and A. L. Goddard. No. 989,934; Apr. 18; Sp. p. 3528; Gaz. vol. 165; p. 613.
Engine-starter. C. Hunt. No. 990,135; Apr. 18; Sp. p. 3932; Gaz. vol. 165; p. 678.
Engine-starter. P. W. Hodgkinson. No. 990,556; Apr. 25; Sp. p. 4924; Gaz. vol. 165; p. 859.
Engine-starter. J. M. Elder. No. 990,643; Apr. 25; Sp. p. 5095; Gaz. vol. 165; p. 888.
Engine-starter. J. B. Kendall and H. M. Ewing. No. 994,932; June 13; Sp. p. 1856; Gaz. vol. 167; p. 326.
Engine-starter. G. H. Jacobs. No. 1,001,145; Aug. 22; Sp. p. 4204; Gaz. vol. 169; p. 769.
Engine-starter. W. S. Johnson. No. 1,001,277; Aug. 22; Sp. p. 4463; Gaz. vol. 169; p. 811.
Engine-starter. C. J. Coleman. No. 1,011,582; Dec. 12; Sp. p. 2694; Gaz. vol. 173; p. 452.
Engine-starter, Automatic. C. J. Coleman. No. 993,030; May 23; Sp. p. 4723; Gaz. vol. 166; p. 860.
Engine-starter, Automobile. F. G. McKlveen and L. W. Naylor. No. 985,689; Feb. 28; Sp. p. 5284; Gaz. vol. 163; p. 930.
Engine-starter, Automobile. H. E. Wilson. No. 985,719; Feb. 28; Sp. p. 5370; Gaz. vol. 163; p. 941.
Engine-starter, Automobile. H. Mason. No. 1,000,929; Aug. 15; Sp. p. 3678; Gaz. vol. 169; p. 660.
Engine starter, Explosive-. J. A. Black. No. 984,066; Feb. 14; Sp. p. 1777; Gaz. vol. 163; p. 306.
Engine starter, Explosive-. A. H. Dalzell. No. 1,002,372; Sept. 5; Sp. p. 455; Gaz. vol. 170; p. 63.
Engine starter, Gas-. C. E. Daniels and E. S. McNichols. No. 985,011; Feb. 21; Sp. p. 3758; Gaz. vol. 163; p. 663.
Engine starter, Gas-. J. P. Edwards. No. 999,763; Aug. 8; Sp. p. 1130; Gaz. vol. 169; p. 223.
Engine starter, Gas-. G. Burress. No. 1,004,984; Oct. 3; Sp. p. 923; Gaz. vol. 171; p. 153.
Engine starter, Gasolene-. H. L. Kornahrens. No. 1,002,590; Sept. 5; Sp. p. 911; Gaz. vol. 170; p. 135.
Engine starter, Internal-combustion-. C. I. Sackrider. No. 983,168; Jan. 31; Sp. p. 6537; Gaz. vol. 162; p. 1136.
Engine starter, Internal-combustion-. J. W. Fitz Gerald. No. 990,351; Apr. 25; Sp. p. 4441; Gaz. vol. 165; p. 785.
Engine starter, Internal-combustion-. L. V. Moulton and P. A. Jones. No. 1,004,061; Sept. 26; Sp. p. 4134; Gaz. vol. 170; p. 743.
Engine starter, Internal-combustion-. F. Slater. No. 1,004,485; Sept. 26; Sp. p. 5047; Gaz. vol. 170; p. 88.
Engine starting and reversing mechanism, Multicylinder-internal-combustion-. H. T. Bruns. No. 1,005,507; Oct. 10; Sp. p. 2038; Gaz. vol. 171; p. 358.
Engine-starting apparatus. E. A. Halbleib. No. 1,005,541; Oct. 10; Sp. p. 2106; Gaz. vol. 171; p. 371.
Engine-starting crank. C. E. Carll. No. 1,001,813; Aug. 29; Sp. p. 5585; Gaz. vol. 169; p. 1024.
Engine-starting crank, Explosive-. J. S. Baker. No. 983,800; Feb. 7; Sp. p. 1156; Gaz. vol. 163; p. 185.
Engine-starting crank, Gas-. F. J. Pelling. No. 1,008,487; Nov. 14; Sp. p. 1955; Gaz. vol. 172; p. 334.
Engine-starting crank, Key-actuating. J. C. Armbruster. No. 1,005,496; Oct. 10; Sp. p. 2021; Gaz. vol. 171; p. 354.
Engine-starting device. A. C. Menges. No. 981,868; Jan. 17; Sp. p. 3768; Gaz. vol. 162; p. 637.
Engine-starting device. L. B. Hallock and G. T. Keen. No. 990,730; Apr. 25; Sp. p. 5316; Gaz. vol. 165; p. 917.
Engine-starting device. H. Burns. No 993,956; May 30; Sp. p. 6691; Gaz. vol. 166; p. 1204.
Engine-starting device. C. M. Burton and R. Gardner. No. 996,060; June 27; Sp. p. 4278; Gaz. vol. 167; p. 777.
Engine-starting device. G. J. Spohrer. No. 998,418; July 18; Sp. p. 3971; Gaz. vol. 168; p. 703.
Engine-starting device. G. J. Spohrer. No. 1,002,465; Sept. 5; Sp. p. 648; Gaz. vol. 170; p. 93.
Engine-starting device. F. P. Huebner, Jr. No. 1,004,263; Sept. 26; Sp. p. 4597; Gaz. vol. 170; p. 813.
Engine-starting device, Automobile. J. S. Clarke. No. 1,006,064; Oct. 17; Sp. p. 3271; Gaz. vol. 171; p. 585.
Engine-starting device, Compound-. L. Doillet and P. R. Faure. No. 984,361; Feb. 14; Sp. p. 2397; Gaz. vol. 163; p. 406.
Engine-starting device, Explosion-. H. B. Strunk. No. 995,925; June 20; Sp. p. 3999; Gaz. vol. 167; p. 695.
Engine-starting device, Explosive-. F. N. Howard. No. 983,284; Feb. 7; Sp. p. 56; Gaz. vol. 163; p. 11.
Engine-starting device, Explosive-. A. Mason. No. 995,547; June 20; Sp. p. 3159; Gaz. vol. 167; p. 562.
Engine-starting device, Explosive-. H. Glen. No. 1,001,016; Aug. 22; Sp. p. 3936; Gaz. vol. 169; p. 724.
Engine-starting device, Gas-. A. B. Fowler. No. 990,854; May 2; Sp. p. 53; Gaz. vol. 166; p. 12.
Engine-starting device, Gas-. G. B. Petsche. No. 991,233; May 2; Sp. p. 860; Gaz. vol. 166; p. 146.
Engine-starting device, Gas-. G. Chédru. No. 998 157; July 18; Sp. p. 3372; Gaz. vol. 168; p. 608.
Engine-starting device, Gas-. C. F. Jenkins. No. 1,003,750; Sept. 19; Sp. p. 3415; Gaz. vol. 170; p. 609.
Engine-starting device, Gas-. G. W. Sage. No. 1,006,683; Oct. 24; Sp. p. 4684; Gaz. vol. 171; p. 834.
Engine-starting device, Gas-. D. A. Baldwin. No. 1,009,011; Nov. 14; Sp. p. 3087; Gaz. vol. 172; p. 513.
Engine starting device, Gas or explosive. H. O. Wurmser. No. 1,007,170; Oct. 31; Sp. p. 5780; Gaz. vol. 171; p. 1057.
Engine-starting device, Internal-combustion-. W. R. Dunkel. No. 980,502; Jan. 3; Sp. p. 711; Gaz. vol. 162; p. 114.
Engine-starting device, Internal-combustion-. W. H. Rozier and S. C. Igou. No. 989,057; Apr. 11; Sp. p. 1610; Gaz. vol. 165; p. 282.
Engine-starting device, Internal-combustion-. G. J. Anderson. No. 999,195; Aug. 1; Sp. p. 3; Gaz. vol. 169; p. 3.
Engine-starting device, Internal-combustion-. R. J. Gibbon. No. 1,000,595; Aug. 15; Sp. p. 2978; Gaz. vol. 169; p. 545.
Engine-starting device, Internal-combustion-. S. T. Reeves. No. 1,001,303; Aug. 22; Sp. p. 4524; Gaz. vol. 169; p. 821.
Engine-starting device, Internal-combustion-. R. O. Le Baron. No. 1,005,045; Oct. 3; Sp. p. 1038; Gaz. vol. 171; p. 173.
Engine-starting means, Internal-combustion-. G. Honold. No. 1,003,743; Sept. 19; Sp. p. 3401; Gaz. vol. 170; p. 606.
Engine-starting mechanism. H. W. Saeger and W. Burow. No. 986,221; Mar. 7; Sp. p. 962; Gaz. vol. 164; p. 156.
Engine-starting mechanism, Explosion-. R. J. Northam and W. E. Sandham. No. 984,840; Feb. 21; Sp. p. 3438; Gaz. vol. 163; p. 607.
Engine-starting mechanism, Explosion-. C. Christiansen. No. 1,010,233; Nov. 28; Sp. p. 5672; Gaz. vol. 172; p. 1015.
Engine-starting mechanism, Gas-. F. H. Glahn. No. 982,133; Jan. 17; Sp. p. 4354; Gaz. vol. 162; p. 727.
Engine-starting mechanism, Gas-. G. B. Petsche. No. 991,454; May 2; Sp. p. 1328; Gaz. vol. 166; p. 222.
Engine-starting mechanism, Hydrocarbon-. W. L. McKissick. No. 1,007,885; Nov. 7; Sp. p. 541; Gaz. vol. 172; p. 82.
Engine-starting mechanism, Internal-combustion-. H. M. Hallsworth. No. 989,963; Apr. 18; Sp. p. 3587; Gaz. vol. 165; p. 622.
Engine-starting mechanism, Internal-combustion-. H. B. and C. G. Whitehead. No. 991,577; May 9; Sp. p. 1615; Gaz. vol. 166; p. 297.
Engine-starting mechanism, Internal-combustion-. C. A. Deal. No. 1,001,512; Aug. 22; Sp. p. 4931; Gaz. vol. 169; p. 891.
Engine starting or cranking mechanism, Explosive-. R. S. Foote. No. 1,000,904; Aug. 15; Sp. p. 3626; Gaz. vol. 169; p. 652.
Engine-starting system, Gas-. H. E. Slaughter. No. 999,894; Aug. 8; Sp. p. 1411; Gaz. vol. 169; p. 268.
Engine-starting vaporizer, Explosive-. J. F. Garcia, H. Hertzberg, and A. A. Low. No. 990,249; Apr. 25; Sp. p. 4211; Gaz. vol. 165; p. 751.

Alphabetical list of inventions—Continued.

Engine-steering device, Traction-. T. H. Cuddy. No. 1,007,541; Oct. 31; Sp. p. 6567; Gaz. vol. 171; p. 1187.
Engine-steering device, Traction-. W. D. Miller. No. 1,009,546; Nov. 21; Sp. p. 4290; Gaz. vol. 172; p. 738.
Engine-steering mechanism, Road-. G. A. Anderson. No. 983,197; Jan. 31; Sp. p. 6591; Gaz. vol. 162; p. 1146.
Engine-steering mechanism, Road-. G. A. Anderson. No. 990,794; Apr. 25; Sp. p. 5456; Gaz. vol. 165; p. 939.
Engine-steering mechanism, Traction-. E. E. Fee. No. 998,684; July 25; Sp. p. 4542; Gaz. vol. 168; p. 828.
Engine-steering mechanism, Traction-. H. A. Waterman, L. C. Bradley, and W. K. Andrew. No. 1,001,181; Aug. 22; Sp. p. 4273; Gaz. vol. 169; p. 779.
Engine-stop. A. S. Hawks. No. 999,994; Aug. 8; Sp. p. 1605; Gaz. vol. 169; p. 302.
Engine-stopping device. W. K. Holt. No. 998,847; July 25; Sp. p. 4917; Gaz. vol. 168; p. 885.
Engine tender, Traction-. C. F. Maloney. No. 1,006,764; Oct. 24; Sp. p. 4855; Gaz. vol. 171; p. 862.
Engine-tenders with water, Mechanism for supplying. R. W. Johnson. No. 1,009,072; Nov. 21; Sp. p. 3223; Gaz. vol. 172; p. 571.
Engine-throttling device, Marine-. O. J. McGowan. No. 1,003,057; Sept. 12; Sp. p. 1924; Gaz. vol. 170; p. 332.
Engines, Air and gas mixer for internal-combustion. C. F. Erickson. No. 986,151; Mar. 7; Sp. p. 816; Gaz. vol. 164; p. 133.
Engines, Air-purifying device for internal-combustion. H. E. Whiting. No. 1,005,386; Oct. 10; Sp. p. 1775; Gaz. vol. 171; p. 317.
Engines and analogous purposes, Igniter for internal-combustion. H. W. Aylward. No. 982,343; Jan. 24; Sp. p. 4792; Gaz. vol. 162; p. 830.
Engines and other prime movers, Stop-motion for steam-. J. W. Sargent. No. 989,062; Apr. 11; Sp. p. 1625; Gaz. vol. 165; p. 284.
Engines and other prime movers, Stop-motion for steam-. J. W. Sargent. (Reissue.) No. 13,333; Dec. 5; Sp. p. 1635; Gaz. vol. 173; p. 259.
Engines and the like, Exhaust-silencer for internal-combustion. G. A. Bishop. No. 1,009,216; Nov. 21; Sp. p. 3557; Gaz. vol. 172; p. 621.
Engines, Apparatus for electric ignition of large internal-combustion. G. Honold. No. 995,676; June 20; Sp. p. 3452; Gaz. vol. 167; p. 608.
Engines, Automatic lubricator for motor-car. A. B. Morse. No. 1,000,188; Aug. 8; Sp. p. 2069; Gaz. vol. 169; p. 368.
Engines, Automatic mixer and charger for gas-. A. P. Gubrud. No. 992,958; May 23; Sp. p. 4576; Gaz. vol. 166; p. 835.
Engines, Automatic reversing-switch for gas-. J. M. Rhett. No. 995,482; June 20; Sp. p. 3026; Gaz. vol. 167; p. 539.
Engines, Automatic safety-stop for air-compressor. E. Hill. No. 994,396; June 6; Sp. p. 620; Gaz. vol. 167; p. 106.
Engines, Auxiliary starting device for internal-combustion. W. Steele. No. 992,920; May 23; Sp. p. 4483; Gaz. vol. 166; p. 822.
Engines, &c., Composition of matter for cooling journals and shafts of. G. M. Callahan. No. 1,003,983; Sept. 26; Sp. p. 3940; Gaz. vol. 170; p. 715.
Engines, Cooling-fan for explosive-. E. A. Johnston. No. 990,139; Apr. 18; Sp. p. 3937; Gaz. vol. 165; p. 679.
Engines, Cooling-tank for explosive-. H. A. Waterman, L. C. Bradley, and W. K. Andrew. No. 1,001,567; Aug. 22; Sp. p. 5042; Gaz. vol. 169; p. 909.
Engines, Crank-case construction for gas-. J. T. Moltrup. No. 993,863; May 30; Sp. p. 6515; Gaz. vol. 166; p. 1174.
Engines, Cylinder and water-jacket for internal-combustion. I. Crabb. No. 1,008,789; Nov. 14; Sp. p. 2627; Gaz. vol. 172; p. 440.
Engines, Cylinder-saddle for locomotive-. F. J. Cole. No. 990,840; May 2; Sp. p. 25; Gaz. vol. 166; p. 7.
Engines, Detent-lever for gas-. G. H. Briggs. No. 1,000,355; Aug. 8; Sp. p. 2415; Gaz. vol. 169; p. 425.
Engines, Device for indicating the useful pressure in. M. Arndt. No. 981,152; Jan. 10; Sp. p. 2228; Gaz. vol. 162; p. 367.
Engines, Device for rapidly stopping compound steam-. K. Linck. No. 984,012; Feb. 14; Sp. p. 1662; Gaz. vol. 163; p. 287.
Engines, Device for supplying oil to internal-combustion. P. D. Johnston. No. 997,136; July 4; Sp. p. 1130; Gaz. vol. 168; p. 183.
Engines, Driving-gearing for traction-. J. W. Shelburne. No. 987,020; Mar. 14; Sp. p. 2648; Gaz. vol. 164; p. 458.
Engines, Economizing-throttle for internal-combustion. A. C. Stewart. No. 983,654; Feb. 7; Sp. p. 858; Gaz. vol. 163; p. 137.
Engines, Electric and fluid-pressure controller for internal-combustion. C. O. Pearson. No. 997,003; July 4; Sp. p. 872; Gaz. vol. 168; p. 140.
Engines, Electric ignition system for explosion-. O. B. Thompson and C. R. Moeller. No. 987,188; Mar. 21; Sp. p. 3019; Gaz. vol. 164; p. 548.
Engines, Fuel-injector for internal-combustion. G. F. Murphy. No. 989,026; Apr. 11; Sp. p. 1544; Gaz. vol. 165; p. 270.
Engines, Fuel-pump for explosion-. G. F. Murphy. No. 989,027; Apr. 11; Sp. p. 1548; Gaz. vol. 165; p. 271.
Engines, Hand starting device for explosive-. R. McKee. No. 993,090; May 23; Sp. p. 4848; Gaz. vol. 166; p. 881.
Engines, Igniter mechanism for explosive-. E. A. Johnston. No. 993,528; May 30; Sp. p. 5792; Gaz. vol. 166; p. 1058.
Engines, Igniting of the charges in internal-combustion. R. E. Phillips. No. 1,008,059; Nov. 7; Sp. p. 890; Gaz. vol. 172; p. 143.
Engines, Ignition in explosive-. J. H. Stringham. No. 1,000,454; Aug. 15; Sp. p. 2647; Gaz. vol. 169; p. 492.
Engines, Ignition system for internal-combustion. C. L. Silva. No. 995,489; June 20; Sp. p. 3040; Gaz. vol. 167; p. 541.
Engines, Ignition system for internal-combustion. C. L. Silva. No. 995,490; June 20; Sp. p. 3041; Gaz. vol. 167; p. 542.
Engines, Ignition system for multicylinder internal-combustion. R. L. Bond. No. 1,003,424; Sept. 19; Sp. p. 2694; Gaz. vol. 170; p. 495.
Engines, Ignition system of internal-combustion. F. H. Alston. No. 1,010,211; Nov. 28; Sp. p. 5628; Gaz. vol. 172; p. 1007.
Engines, Ignition-timer for internal-combustion. L. B. Holt and A. B. Clayton. No. 984,564; Feb. 21; Sp. p. 2860; Gaz. vol. 163; p. 509.
Engines in self-propelled vehicles, Starter for explosion-. D. B. Gardner. No. 982,946; Jan. 31; Sp. p. 6092; Gaz. vol. 162; p. 1064.
Engines, Induction-conduit for explosion-. E. A. Nelson. No. 992,235; May 16; Sp. p. 2997; Gaz. vol. 166; p. 552.
Engines, Intake-manifold for explosive-. J. C. W. Van Blerck. No. 980,576; Jan. 3; Sp. p. 872; Gaz. vol. 162; p. 140.
Engines, Interrupting mechanism for electric ignition systems for internal-combustion. A. Zähringer. No. 1,008,768; Nov. 14; Sp. p. 2585; Gaz. vol. 172; p. 433.
Engines, Magneto-machine for use in connection with the ignition systems of internal-combustion. R. F. Hall. No. 984,368; Feb. 14; Sp. p. 2409; Gaz. vol. 163; p. 408.
Engines, Make-and-break sparker for internal-combustion. E. Thomson. No. 1,010,987; Dec. 5; Sp. p. 1290; Gaz. vol. 173; p. 205.
Engines, Means for controlling and regulating the operation of gas-. L. C. Jackson. No. 1,010,369; Nov. 28; Sp. p. 5952; Gaz. vol. 172; p. 1058.
Engines, Means for controlling reversible internal-combustion. K. J. E. Hesselman. No. 997,253; July 4; Sp. p. 1373; Gaz. vol. 168; p. 225.
Engines, Means for facilitating the starting of hydrocarbon-. A. M. Walstrom. No. 981,337; Jan. 10; Sp. p. 2665; Gaz. vol. 162; p. 433.
Engines, Means for starting or cranking gas or explosive. H. O. Wurmser. No. 984,252; Feb. 14; Sp. p. 2176; Gaz. vol. 163; p. 369.
Engines, Means for treating the exhaust-steam of piston steam-. W. L. Bunker and S. Lindo. No. 1,002,804; Sept. 5; Sp. p. 1376; Gaz. vol. 170; p. 209.
Engines, Mechanism for governing explosive-. H. de La Valette. No. 999,046; July 25; Sp. p. 5380; Gaz. vol. 168; p. 957.
Engines, Mechanism for utilizing the exhaust-gases of internal-combustion. S. T. Willis. No. 980,382; Jan. 3; Sp. p. 415; Gaz. vol. 162; p. 72.
Engines, Mixer for internal-combustion. R. D. Loose. No. 1,012,380; Dec. 19; Sp. p. 4433; Gaz. vol. 173; p. 759.
Engines, Moistener for internal-combustion. C. C. Rich. No. 986,757; Mar. 14; Sp. p. 2123; Gaz. vol. 164; p. 370.
Engines, Operating internal-combustion. W. Rabsilber. No. 1,005,118; Oct. 3; Sp. p. 1163; Gaz. vol. 171; p. 197.
Engines, Pressure-regulator for internal-combustion. R. Huff. No. 992,505; May 16; Sp. p. 3602; Gaz. vol. 166; p. 647.
Engines, Primer for hydrocarbon-. B. Ivor. No. 1,004,032; Sept. 26; Sp. p. 4067; Gaz. vol. 170; p. 733.
Engines, Priming-cup for gasolene-. F. L. Swanberg. No. 985,223; Feb. 28; Sp. p. 4261; Gaz. vol. 163; p. 772.
Engines, Process and apparatus for scavenging internal-combustion. E. W. Stevens. No. 990,604; Apr. 25; Sp. p. 5025; Gaz. vol. 165; p. 875.
Engines, Push-rod for delivery-valves of internal-combustion. P. Krön. No. 992,677; May 16; Sp. p. 3953; Gaz. vol. 166; p. 705.
Engines, Reversing and valve-operating means for internal-combustion. J. A. Scott. No. 991,028; May 2; Sp. p. 414; Gaz. vol. 166; p. 71.
Engines, Safety cranking attachment for internal-combustion. G. W. Sage. No. 1,007,608; Oct. 31; Sp. p. 6722; Gaz. vol. 171; p. 1209.
Engines, Safety starting-crank for explosive-. P. Swenson. No. 982,898; Jan. 31; Sp. p. 5978; Gaz. vol. 162; p. 1048.
Engines, Signal mechanism for stopping railway-. W. H. Bauert. No. 995,316; June 13; Sp. p. 2610; Gaz. vol. 167; p. 452.
Engines, Sparking plug for internal-combustion. M. Wild. No. 1,004,325; Sept. 26; Sp. p. 4710; Gaz. vol. 170; p. 833.

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Engines, Steam-pipe for locomotive-. F. J. Cole. No. 998,872; July 25; Sp. p. 4983; Gaz. vol. 168; p. 894.
Engines, Valve trip-gear for steam and other motive-power. E. Neukomm. No. 1,005,741; Oct. 10; Sp. p. 2561; Gaz. vol. 171; p. 440.
Engines, Vaporizer for internal-combustion. D. Roberts and J. W. Young. No. 983,646; Feb. 7; Sp. p. 840; Gaz. vol. 163; p. 134.
Engines, Water-jacket for internal-combustion. L. S. Chadwick. No. 995,324; June 13; Sp. p. 2624; Gaz. vol. 167; p. 455.
Engines, Water-jacketed cylinder for internal-combustion. R. L. Gruber. No. 1,009,837; Nov. 28; Sp. p. 4882; Gaz. vol. 172; p. 881.
Engineer's leveling-rod. H. S. Dailey. No. 985,784; Mar. 7; Sp. p. 34; Gaz. vol. 164; p. 8.
Engraver's block. W. K. Wolfe. No. 1,006,817; Oct. 24; Sp. p. 4980; Gaz. vol. 171; p. 882.
Engraver's-block attachment. C. M. Bowman. No. 1,011,108; Dec. 5; Sp. p. 1562; Gaz. vol. 173; p. 247.
Engraver's tool. E. Probst. No. 985,934; Mar. 7; Sp. p. 384; Gaz. vol. 164; p. 60.
Engraver's tool. E. F. Mueller. No. 989,794; Apr. 18; Sp. p. 3231; Gaz. vol. 165; p. 565.
Engraving-machine. U. G. Lee. No. 1,006,238; Oct. 17; Sp. p. 3687; Gaz. vol. 171; p. 649.
Engraving-machines, Geometric attachment for pantograph. W. H. Hope. No. 1,005,973; Oct. 17; Sp. p. 3089; Gaz. vol. 171; p. 555.
Engraving or preparation of steel dies or rollers. J. T. Rawsthorne. No. 991,747; May 9; Sp. p. 1975; Gaz. vol. 166; p. 355.
Engraving the interior surface of hollow articles, Apparatus for. K. Schwahn. No. 1,003,126; Sept. 12; Sp. p. 2075; Gaz. vol. 170; p. 357.
Engraving the interior surfaces of hollow articles, Apparatus for. K. Schwahn. No. 990,912; May 2; Sp. p. 181; Gaz. vol. 166; p. 33.
Ensilage-carrier. O. Borgen. No. 980,190; Jan. 3; Sp. p. 22; Gaz. vol. 162; p. 7.
Ensilage-cover. I. Speck. No. 992,818; May 23; Sp. p. 4255; Gaz. vol. 166; p. 785.
Ensilage-cutter. W. H. Preston. No. 984,155; Feb. 14; Sp. p. 1951; Gaz. vol. 163; p. 334.
Envelop. J. Parbel. No. 981,107; Jan. 10; Sp. p. 2128; Gaz. vol. 162; p. 351.
Envelop. W. H. Griffin. No. 982,594; Jan. 24; Sp. p. 5318; Gaz. vol. 162; p. 917.
Envelop. G. Geiger. No. 985,339; Feb. 28; Sp. p. 4502; Gaz. vol. 163; p. 811.
Envelop. G. S. Richey. No. 996,141; June 27; Sp. p. 4440; Gaz. vol. 167; p. 804.
Envelop. G. J. Hartke. No. 997,999; July 18; Sp. p. 3024; Gaz. vol. 168; p. 553.
Envelop. F. Kaczynski. No. 998,342; July 18; Sp. p. 3815; Gaz. vol. 168; p. 678.
Envelop. K. Kolek. No. 998,348; July 18; Sp. p. 3827; Gaz. vol. 168; p. 679.
Envelop. L. B. Brown. No. 998,461; July 18; Sp. p. 4048; Gaz. vol. 168; p. 717.
Envelop. B. A. Raymer and A. Heveker, Jr. No. 999,057; July 25; Sp. p. 5397; Gaz. vol. 168; p. 960.
Envelop. R. T. Weiler. No. 999,353; Aug. 1; Sp. p. 320; Gaz. vol. 169; p. 56.
Envelop. L. P. Flickinger, Jr. No. 1,000,249; Aug. 8; Sp. p. 2186; Gaz. vol. 169; p. 389.
Envelop. J. Fridrich. No. 1,006,199; Oct. 17; Sp. p. 3603; Gaz. vol. 171; p. 634.
Envelop. J. Kubinyi. No. 1,007,455; Oct. 31; Sp. p. 6378; Gaz. vol. 171; p. 1158.
Envelop. E. Low. No. 1,010,282; Nov. 28; Sp. p. 5785; Gaz. vol. 172; p. 1031.
Envelop. J. H. Swindell. No. 1,012,112; Dec. 19; Sp. p. 3873; Gaz. vol. 173; p. 669.
Envelop and letter-sheet, Combined. D. M. Benton. No. 1,009,039; Nov. 21; Sp. p. 3153; Gaz. vol. 172; p. 559.
Envelop and similar machine. J. Froehlich. No. 1,006,645; Oct. 24; Sp. p. 4608; Gaz. vol. 171; p. 821.
Envelop and similar machines, Trap-door mechanism for. F. L. Schmidt. No. 1,006,687; Oct. 24; Sp. p. 4690; Gaz. vol. 171; p. 835.
Envelop-blanks, Punching and gumming mechanism for. F. L. Schmidt. No. 997,330; July 11; Sp. p. 1550; Gaz. vol. 168; p. 281.
Envelop-feeder. C. L. Davis. No. 1,005,518; Oct. 10; Sp. p. 2062; Gaz. vol. 171; p. 362.
Envelop-loading machines, &c., Envelop-feeding mechanism for. W. C. Briggs and J. R. Williams. No. 987,851; Mar. 28; Sp. p. 4416; Gaz. vol. 164; p. 804.
Envelop-machine. D. M. Lester. No. 980,539; Jan. 3; Sp. p. 791; Gaz. vol. 162; p. 127.
Envelop-machine. G. P. Taylor. No. 984,451; Feb. 14; Sp. p. 2570; Gaz. vol. 163; p. 435.
Envelop-machine. W. C. Briggs. No. 990,833; May 2; Sp. p. 9; Gaz. vol. 166; p. 5.
Envelop-machine. M. Vierengel. No. 1,000,057; Aug. 8; Sp. p. 1732; Gaz. vol. 169; p. 323.
Envelop, Non-sifting. A. P. Spitko. No. 996,532; June 27; Sp. p. 5351; Gaz. vol. 167; p. 936.
Envelop-opener. J. Revels. No. 984,299; Feb. 14; Sp. p. 2279; Gaz. vol. 163; p. 386.
Envelop-opener. A. Coustley. No. 999,965; Aug. 8; Sp. p. 1547; Gaz. vol. 169; p. 292.
Envelop-opening device. E. E. Ries. No. 1,005,879; Oct. 17; Sp. p. 2868; Gaz. vol. 171; p. 521.
Envelop, Pay-. J. Regenstein. No. 985,061; Feb. 21; Sp. p. 3860; Gaz. vol. 163; p. 681.
Envelop, Return-coupon letter-sheet. C. R. Stadermann and J. C. Hammer. No. 1,007,612; Oct. 31; Sp. p. 6729; Gaz. vol. 171; p. 1211.
Envelop, Safety-. J. P. Sanders. No. 985,210; Feb. 28; Sp. p. 4226; Gaz. vol. 163; p. 767.
Envelop, Safety-. J. N. Harris. No. 993,986; May 30; Sp. p. 6759; Gaz. vol. 166; p. 1214.
Envelop, Safety-. N. Angood. No. 1,012,579; Dec. 26; Sp. p. 4838; Gaz. vol. 173; p. 872.
Envelops, Machine for forming open-end. J. West. No. 1,010,833; Dec. 5; Sp. p. 967; Gaz. vol. 173; p. 151.
Enzym. J. Takamine. No. 991,560; May 9; Sp. p. 1577; Gaz. vol. 166; p. 292.
Enzym, Amylolytic. J. Takamine. No. 991,561; May 9; Sp. p. 1579; Gaz. vol. 166; p. 292.
Equalizer. E. C. Blomberg. No. 984,793; Feb. 21; Sp. p. 3352; Gaz. vol. 163; p. 591.
Equalizer, Draw-bar. C. E. Estes. No. 999,495; Aug. 1; Sp. p. 594; Gaz. vol. 169; p. 103.
Equalizing device. W. Guyton. No. 991,977; May 9; Sp. p. 2438; Gaz. vol. 166; p. 433.
Eraser and pen-extractor, Combined. F. H. Lamoreux. No. 994,759; June 13; Sp. p. 1454; Gaz. vol. 167; p. 268.
Eraser, Blackboard-. J. L. Enyeart. No. 983,696; Feb. 7; Sp. p. 954; Gaz. vol. 163; p. 151.
Eraser, Blackboard-. G. P. Lull. No. 995,409; June 13; Sp. p. 2852; Gaz. vol. 167; p. 484.
Eraser cleaner, Chalk-. J. A. Jones. No. 1,006,385; Oct. 17; Sp. p. 4010; Gaz. vol. 171; p. 699.
Eraser for ink, pigments, and the like. F. H. Baldwin and W. Graff. No. 1,005,924; Oct. 17; Sp. p. 2979; Gaz. vol. 171; p. 538.
Erasing tracing-ink, &c., Composition for. C. Ellis. No. 997,910; July 11; Sp. p. 2810; Gaz. vol. 168; p. 480.
Ergot, Extract of. R. Tambach. No. 1,004,499; Sept. 26; Sp. p. 5071; Gaz. vol. 170; p. 893.
Erythrene, Producing. F. Hofmann and L. Tank. No. 1,010,405; Nov. 28; Sp. p. 6041; Gaz. vol. 172; p. 1070.
Escapement mechanism. O. McCann. No. 987,153; Mar. 21; Sp. p. 2925; Gaz. vol. 164; p. 534.
Escapement mechanism. O. McCann. No. 1,007,220; Oct. 31; Sp. p. 5887; Gaz. vol. 171; p. 1075.
Escapement-wheel. G. W. Crank. No. 991,048; May 2; Sp. p. 458; Gaz. vol. 166; p. 79.
Escutcheon-plate. C. B. Bishop. No. 1,005,099; Oct. 3; Sp. p. 1124; Gaz. vol. 171; p. 190.
Etching apparatus. B. C. Hilliard. No. 1,001,031; Aug. 22; Sp. p. 3970; Gaz. vol. 169; p. 730.
Etching by electrolysis on relief or intaglio. A. D. Lapointe. No. 984,011; Feb. 14; Sp. p. 1662; Gaz. vol. 163; p. 286.
Etching-machine. C. P. Browning. No. 993,503; May 30; Sp. p. 5741; Gaz. vol. 166; p. 1048.
Etching-machine. F. E. Johnston. No. 995,148; June 13; Sp. p. 2294; Gaz. vol. 167; p. 398.
Evaporating and concentrating apparatus. J. E. Dunn. No. 994,776; June 6; Sp. p. 3687; Gaz. vol. 167; p. 643.
Evaporating apparatus. F. H. Eijdman. No. 984,754; Feb. 21; Sp. p. 3270; Gaz. vol. 163; p. 577.
Evaporating apparatus. J. E. Kauffman. No. 990,878; May 2; Sp. p. 111; Gaz. vol. 166; p. 20.
Evaporating apparatus. P. Kestner. No. 1,003,912; Sept. 19; Sp. p. 3719; Gaz. vol. 170; p. 663.
Evaporating apparatus. F. Scheinemann. No. 1,004,087; Sept. 26; Sp. p. 4219; Gaz. vol. 170; p. 452.
Evaporating apparatus. P. Kestner. No. 1,005,553; Oct. 10; Sp. p. 2141; Gaz. vol. 171; p. 375.
Evaporating apparatus. G. W. Childs. No. 1,005,600; Oct. 10; Sp. p. 2278; Gaz. vol. 171; p. 392.
Evaporating apparatus. C. Corne. No. 1,012,523; Dec. 19; Sp. p. 4701; Gaz. vol. 173; p. 808.
Evaporating apparatus, Multiple-effect. S. M. Lillie. No. 984,226; Feb. 14; Sp. p. 2123; Gaz. vol. 163; p. 360.
Evaporating apparatus, Vacuum. C. Ordway. No. 1,009,782; Nov. 28; Sp. p. 4764; Gaz. vol. 172; p. 862.
Evaporating fluids. F. P. Bergh, H. J. Loebinger, and H. C. Neuberger. No. 997,950; July 18; Sp. p. 2918; Gaz. vol. 168; p. 536.
Evaporating liquids. P. Kestner. No. 997,502; July 11; Sp. p. 1866; Gaz. vol. 168; p. 337.
Evaporating liquids. P. Kestner. No. 997,503; July 11; Sp. p. 1869; Gaz. vol. 168; p. 337.
Evaporating-pan. J. W. B. Harry. No. 989,354; Apr. 11; Sp. p. 2256; Gaz. vol. 165; p. 382.
Evaporating-pan. O. G. Dasher. No. 1,007,072; Oct. 31; Sp. p. 5548; Gaz. vol. 171; p. 1021.
Evaporating-pan. H. Holmes. No. 1,012,550; Dec. 19; Sp. p. 4765; Gaz. vol. 173; p. 818.
Evaporating solutions. S. M. Lillie. No. 984,822; Feb. 21; Sp. p. 3405; Gaz. vol. 163; p. 600.
Evaporating solutions in which salt is precipitated. B. Block. No. 1,006,823; Oct. 24; Sp. p. 4994; Gaz. vol. 171; p. 884.

Alphabetical list of inventions—Continued.

Evaporating-tube. S. M. Lillie. No. 988,477; Apr. 4; Sp. p. 401; Gaz. vol. 165; p. 65.
Evaporating vessel. W. G. Bate. No. 996,047; June 27; Sp. p. 4247; Gaz. vol. 167; p. 772.
Evaporation. C. R. Mabee. No. 998,020; July 18; Sp. p. 3077; Gaz. vol. 168; p. 561.
Evaporation, Apparatus for multiple-effect vacuum. H. H. Dow. No. 1,004,686; Oct. 3; Sp. p. 292; Gaz. vol. 171; p. 50.
Evaporative cooler. L. I. Collett. No. 988,547; Apr. 4; Sp. p. 544; Gaz. vol. 165; p. 87.
Evaporative cooler. W. D. and T. O. Tyson. No. 1,000,132; Aug. 8; Sp. p. 1945; Gaz. vol. 169; p. 350.
Evaporator. J. Dinckels. No. 984,265; Feb. 14; Sp. p. 2216; Gaz. vol. 163; p. 374.
Evaporator. P. Kestner. No. 989,982; Apr. 18; Sp. p. 3639; Gaz. vol. 165; p. 629.
Evaporator. J. Parker. No. 989,996; Apr. 18; Sp. p. 3663; Gaz. vol. 165; p. 634.
Evaporator. C. Mykolashek. No. 995,629; June 20; Sp. p. 3356; Gaz. vol. 167; p. 592.
Evaporator. J. Parker. No. 1,005,571; Oct. 10; Sp. p. 2210; Gaz. vol. 171; p. 382.
Evaporator. F. M. De Beers. No. 1,006,363; Oct. 17; Sp. p. 3969; Gaz. vol. 171; p. 691.
Evaporator and drier, Combined milk. J. C. Alexander. No. 986,118; Mar. 7; Sp. p. 762; Gaz. vol. 164; p. 123.
Evaporator for petroleum-oils or other liquids. M. J. Trumble. No. 996,736; July 4; Sp. p. 269; Gaz. vol. 168; p. 47.
Evaporator or heater, Vacuum. J. E. Dunn. (Reissue.) No. 13,245; May 30; Sp. p. 7000; Gaz. vol. 166; p. 1255.
Evaporators, Feed-regulating device for. R. Mellor. No. 991,342; May 2; Sp. p. 1104; Gaz. vol. 166; p. 185.
Evener. S. Marquis. No. 988,797; Apr. 4; Sp. p. 1087; Gaz. vol. 165; p. 173.
Evener, Four-horse. J. Miller. No. 998,028; July 18; Sp. p. 3097; Gaz. vol. 168; p. 564.
Ever-level table. T. H. Etheridge, Jr. No. 997,246; July 4; Sp. p. 1359; Gaz. vol. 168; p. 223.
Excavating and conveying apparatus. J. Hayward. No. 1,000,677; Aug. 15; Sp. p. 3158; Gaz. vol. 169; p. 572.
Excavating and loading apparatus. I. E. Burkett. No. 1,000,988; Aug. 22; Sp. p. 3851; Gaz. vol. 169; p. 714.
Excavating and separating apparatus. O. B. Perry. No. 991,083; May 2; Sp. p. 531; Gaz. vol. 166; p. 92.
Excavating and transporting soil, &c., Apparatus for. G. E. Field. No. 987,352; Mar. 21; Sp. p. 3367; Gaz. vol. 164; p. 604.
Excavating apparatus. C. H. Kreiling. No. 1,009,532; Nov. 21; Sp. p. 4260; Gaz. vol. 172; p. 734.
Excavating-bucket. J. C. Crenshaw. No. 1,000,325; Aug. 8; Sp. p. 2341; Gaz. vol. 169; p. 414.
Excavating-buckets, Tooth for. E. L. Pemberton. No. 995,285; June 13; Sp. p. 2556; Gaz. vol. 167; p. 443.
Excavating-dipper. W. S. McKee and P. M. Vilas. No. 1,001,289; Aug. 22; Sp. p. 4484; Gaz. vol. 169; p. 815.
Excavating-machine. H. Walters and N. Bumpus. No. 983,959; Feb. 14; Sp. p. 1532; Gaz. vol. 163; p. 269.
Excavating-machine. L. C. Wood. No. 987,660; Mar. 21; Sp. p. 3981; Gaz. vol. 164; p. 710.
Excavating-machine. C. L. Lilleberg. No. 990,487; Apr. 25; Sp. p. 4762; Gaz. vol. 165; p. 835.
Excavating-machine. E. J. Mundale. No. 993,706; May 30; Sp. p. 6199; Gaz. vol. 166; p. 1121.
Excavating-machine. J. H. W. Libbe. No. 994,942; June 13; Sp. p. 1874; Gaz. vol. 167; p. 330.
Excavating-machine. F. Donaldson. No. 996,913; July 4; Sp. p. 653; Gaz. vol. 168; p. 106.
Excavating-machine. M. G. Bunnell. No. 997,542; July 11; Sp. p. 1952; Gaz. vol. 168; p. 350.
Excavating-machine. A. M. Munn. No. 998,029; July 18; Sp. p. 3099; Gaz. vol. 168; p. 564.
Excavating-machine. O. W. Siebenhaar. No. 998,308; July 18; Sp. p. 3742; Gaz. vol. 168; p. 665.
Excavating-machine. J. Walton. No. 998,818; July 25; Sp. p. 4844; Gaz. vol. 168; p. 875.
Excavating-machine. J. C. Boehm. No. 999,953; Aug. 8; Sp. p. 1526; Gaz. vol. 169; p. 288.
Excavating-machine. D. F. Hogan. No. 1,003,458; Sept. 19; Sp. p. 2768; Gaz. vol. 170; p. 507.
Excavating-machine. L. C. Wood. No. 1,004,549; Sept. 26; Sp. p. 5168; Gaz. vol. 170; p. 909.
Excavating-machine. E. O'Toole. No. 1,011,994; Dec. 19; Sp. p. 3593; Gaz. vol. 173; p. 627.
Excavating-machine. E. O'Toole. No. 1,011,995; Dec. 19; Sp. p. 3597; Gaz. vol. 173; p. 628.
Excavating-machine boom. G. W. King, H. J. Barnhart, and C. B. King. No. 1,012,087; Dec. 19; Sp. p. 3810; Gaz. vol. 173; p. 660.
Excavating machine, Earth-. J. H. Luethje. No. 988,883; Apr. 4; Sp. p. 1247; Gaz. vol. 165; p. 199.
Excavating-machine for digging and conveying peat. A. Anrep. No. 980,858; Jan. 3; Sp. p. 1448; Gaz. vol. 162; p. 233.
Excavating-machine spud. J. G. Fairbanks. No. 989,898; Apr. 18; Sp. p. 3436; Gaz. vol. 165; p. 599.
Excavating machine, Tunnel-. J. N. Back. No. 1,011,712; Dec. 12; Sp. p. 2957; Gaz. vol. 173; p. 495.
Excavating mechanism. H. H. Harris. No. 1,000,263; Aug. 8; Sp. p. 2213; Gaz. vol. 169; p. 394.
Excavating mechanism. H. H. Harris. No. 1,002,685; Sept. 5; Sp. p. 1112; Gaz. vol. 170; p. 167.
Excavating-shovel. C. A. Morris. No. 1,002,733; Sept. 5; Sp. p. 1242; Gaz. vol. 170; p. 185.
Excavating system. C. A. Morris. No. 1,002,732; Sept. 5; Sp. p. 1237; Gaz. vol. 170; p. 184.
Excavating system, Cableway. C. L. Wachter. No. 1,002,545; Sept. 5; Sp. p. 814; Gaz. vol. 170; p. 119.
Excavating-tool. R. A. Bonnell. No. 994,113; June 6; Sp. p. 18; Gaz. vol. 167; p. 6.
Excavator. W. G. Lawrence. No. 992,679; May 16; Sp. p. 3957; Gaz. vol. 166; p. 706.
Excavator. R. P. McCormick. No. 993,785; May 30; Sp. p. 6363; Gaz. vol. 166; p. 1147.
Excavator. J. P. Farrelly. No. 994,380; June 6; Sp. p. 585; Gaz. vol. 167; p. 100.
Excavator. C. A. Frayer. No. 997,052; July 4; Sp. p. 979; Gaz. vol. 168; p. 156.
Excavator. M. G. Bunnell. No. 997,543; July 11; Sp. p. 1954; Gaz. vol. 168; p. 350.
Excavator. H. H. Harris. No. 1,002,148; Aug. 29; Sp. p. 6272; Gaz. vol. 169; p. 1134.
Excavator. I. Pascal. No. 1,003,149; Sept. 12; Sp. p. 2116; Gaz. vol. 170; p. 364.
Excavator and conveyer, Scraping-. J. L. Potter. No. 985,546; Feb. 28; Sp. p. 4986; Gaz. vol. 163; p. 882.
Excavator-cutter. J. S. Henderson. No. 1,005,544; Oct. 10; Sp. p. 2112; Gaz. vol. 171; p. 372.
Excavator, Drainage-. M. G. Bunnell. No. 991,696; May 9; Sp. p. 1886; Gaz. vol. 166; p. 340.
Excavator, Power-driven post-hole. R. T. Burdette. No. 1,000,578; Aug. 15; Sp. p. 2938; Gaz. vol. 169; p. 537.
Excavator, Rotary. T. Fahey. No. 992,346; May 16; Sp. p. 3284; Gaz. vol. 166; p. 592.
Excavator-shovel. H. G. Butler. No. 987,612; Mar. 21; Sp. p. 3885; Gaz. vol. 164; p. 691.
Excavators or the like, Tooth for. M. J. Woznack. No. 1,011,547; Dec. 12; Sp. p. 2581; Gaz. vol. 173; p. 437.
Excelsior-machine. W. S. Minor. No. 998,793; July 25; Sp. p. 4792; Gaz. vol. 168; p. 866.
Exchange-selector, Automatic-. H. B. Holmes and E. B. Craft. No. 980,417; Jan. 3; Sp. p. 492; Gaz. vol. 162; p. 84.
Exchange system, Automatic. W. H. Matthies. No. 996,500; June 27; Sp. p. 5280; Gaz. vol. 167; p. 926.
Exerciser. C. Hazelton. No. 980,634; Jan. 3; Sp. p. 974; Gaz. vol. 162; p. 159.
Exerciser, Animal-. F. Cousin. No. 1,006,182; Oct. 17; Sp. p. 3554; Gaz. vol. 171; p. 629.
Exerciser, Body-. J. Singer. No. 992,272; May 16; Sp. p. 3097; Gaz. vol. 166; p. 564.
Exerciser-cords, Coupling for the ends of elastic or other. H. J. Wareham. No. 989,216; Apr. 11; Sp. p. 1943; Gaz. vol. 165; p. 336.
Exercising apparatus. M. Duffner. No. 1,006,470; Oct. 24; Sp. p. 4204; Gaz. vol. 171; p. 757.
Exercising apparatus. A. A. Pons. No. 1,010,796; Dec. 5; Sp. p. 884; Gaz. vol. 173; p. 138.
Exercising device. A. B. Sandberg. No. 1,005,478; Oct. 10; Sp. p. 1975; Gaz. vol. 171; p. 348
Exercising device. E. D. Angell. No. 1,005,791; Oct. 17; Sp. p. 2668; Gaz. vol. 171; p. 489.
Exercising device. W. P. Armstrong. No. 1,007,628; Oct. 31; Sp. p. 6765; Gaz. vol. 171; p. 1217.
Exercising device. J. H. Brogan. No. 1,012,802; Dec. 26; Sp. p. 5339; Gaz. vol. 173; p. 950.
Exercising-machine. A. Zachariae. No. 1,007,410; Oct. 31; Sp. p. 6281; Gaz. vol. 171; p. 1142.
Exhaust-muffler. A. W. Porter. No. 1,004,195; Sept. 26; Sp. p. 4466; Gaz. vol. 170; p. 790.
Exhaust-silencer. G. C. Palmer. No. 994,028; May 30; Sp. p. 6844; Gaz. vol. 166; p. 1228.
Exhaust, Variable. W. J. Stevens. No. 1,006,803; Oct. 24; Sp. p. 4947; Gaz. vol. 171; p. 876.
Exhauster. G. P. Brand. No. 994,697; June 6; Sp. p. 1268; Gaz. vol. 167; p. 206.
Exhibit device. O. E. Kellum. No. 999,313; Aug. 1; Sp. p. 228; Gaz. vol. 169; p. 43.
Exhibit device. O. E. Kellum. No. 999,314; Aug. 1; Sp. p. 229; Gaz. vol. 169; p. 43.
Exhibiting and advertising device. H. W. Pearson. No. 989,406; Apr. 11; Sp. p. 2360; Gaz. vol. 165; p. 399.
Exhibitor, Automatic sign-. W. Akin. No. 981,830; Jan. 17; Sp. p. 3692; Gaz. vol. 162; p. 624.
Exhibitor, Changeable. B. Sucker. No. 1,004,931; Oct. 3; Sp. p. 832; Gaz. vol. 171; p. 135.
Exhibitor, Sign-. B. A. Harris. No. 983,708; Feb. 7; Sp. p. 973; Gaz. vol. 163; p. 155.
Exit-lock, Emergency. H. H. Dupont. No. 983,355; Feb. 7; Sp. p. 208; Gaz. vol. 163; p. 36.
Expanding brake. E. F. Kelley. No. 995,606; June 20; Sp. p. 3313; Gaz. vol. 167; p. 583.
Expanding-machine. T. H. Kane. No. 1,004,274; Sept. 26; Sp. p. 4613; Gaz. vol. 170; p. 816.
Expansible bit. T. E. Pope. No. 988,143; Mar. 28; Sp. p. 5085; Gaz. vol. 164; p. 902.
Expansible mold. C. F. Moses. No. 989,994; Apr. 18; Sp. p. 3657; Gaz. vol. 165; p. 633.
Expansible tube. E. J. Deegan. No. 1,010,123; Nov. 28; Sp. p. 5459; Gaz. vol. 172; p. 978.

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Expansion-bolt. C. J. Clements. No. 981,382; Jan. 10; Sp. p. 2758; Gaz. vol. 162; p. 448.
Expansion-bolt. A. Law. No. 987,381; Mar. 21; Sp. p. 3427; Gaz. vol. 164; p. 614.
Expansion-engine. C. H. Reynolds. No. 1,005,878; Oct. 17; Sp. p. 2863; Gaz. vol. 171; p. 521.
Expansion-joint. J. Scott. No. 987,098; Mar. 14; Sp. p. 2787; Gaz. vol. 164; p. 482.
Expansion-joint. C. R. Speight. No. 1,006,507; Oct. 24; Sp. p. 4304; Gaz. vol. 171; p. 772.
Exploding mine charges, Apparatus for. J. Krannichfeldt. No. 1,005,649; Oct. 10; Sp. p. 2388; Gaz. vol. 171; p. 409.
Explosion-engine. W. K. Halzmueller. No. 988,344; Apr. 4; Sp. p. 108; Gaz. vol. 165; p. 20.
Explosion-engine. E. L. Thomas. No. 991,670; May 9; Sp. p. 1825; Gaz. vol. 166; p. 331.
Explosion-engine. H. E. Coffin. No. 992,482; May 16; Sp. p. 3564; Gaz. vol. 166; p. 638.
Explosion-engine. H. E. Coffin. No. 1,011,748; Dec. 12; Sp. p. 3036; Gaz. vol. 173; p. 507.
Explosion-engine. A. P. Brush. No. 1,012,323; Dec. 19; Sp. p. 4318; Gaz. vol. 173; p. 741.
Explosion-engine, Air-cooled. A. E. Wolcott. No. 1,004,836; Oct. 3; Sp. p. 629; Gaz. vol. 171; p. 102.
Explosion-engine operated by liquid fuel. O. L. Riegels. No. 1,008,199; Nov. 7; Sp. p. 1179; Gaz. vol. 172; p. 194.
Explosion-engine, Rotary-cylinder. C. J. Coleman. No. 980,491; Jan. 3; Sp. p. 685; Gaz. vol. 162; p. 110.
Explosion-motor. R. Breton. No. 982,468; Jan. 24; Sp. p. 5075; Gaz. vol. 162; p. 876.
Explosion-motor. L. L. A. Seguin. No. 984,033; Feb. 14; Sp. p. 1709; Gaz. vol. 163; p. 294.
Explosive. V. L. Bedler. No. 981,969; Jan. 17; Sp. p. 4030; Gaz. vol. 162; p. 673.
Explosive. J. B. Bronstein. No. 986,900; Mar. 14; Sp. p. 2434; Gaz. vol. 164; p. 420.
Explosive. N. Ceipek. No. 988,244; Mar. 28; Sp. p. 5274; Gaz. vol. 164; p. 936.
Explosive. G. M. Peters and M. F. Lindsley. No. 988,590; Apr. 4; Sp. p. 653; Gaz. vol. 165; p. 105.
Explosive. H. Maxim. No. 988,799; Apr. 4; Sp. p. 1091; Gaz. vol. 165; p. 174.
Explosive. J. B. Bronstein. No. 988,858; Apr. 4; Sp. p. 1199; Gaz. vol. 165; p. 191.
Explosive. J. Luciani. No. 989,375; Apr. 11; Sp. p. 2295; Gaz. vol. 165; p. 389.
Explosive. G. Cornaro. No. 989,947; Apr. 18; Sp. p. 3559; Gaz. vol. 165; p. 618.
Explosive. G. Cornaro. No. 989,948; Apr. 18; Sp. p. 3560; Gaz. vol. 165; p. 618.
Explosive. G. Cornaro. No. 990,036; Apr. 18; Sp. p. 3740; Gaz. vol. 165; p. 647.
Explosive. W. H. Palmer. No. 990,585; Apr. 25; Sp. p. 4986; Gaz. vol. 165; p. 869.
Explosive. C. E. Griffing. No. 991,057; May 2; Sp. p. 468; Gaz. vol. 166; p. 82.
Explosive. G. M. Peters and M. F. Lindsley. No. 991,232; May 2; Sp. p. 859; Gaz. vol. 166; p. 146.
Explosive. C. Wester. No. 993,211; May 23; Sp. p. 5103; Gaz. vol. 166; p. 919.
Explosive. F. M. Marshall. No. 993,534; May 30; Sp. p. 5805; Gaz. vol. 166; p. 1060.
Explosive. H. Hibbert. No. 994,841; June 13; Sp. p. 1647; Gaz. vol. 167; p. 296.
Explosive. H. Hibbert. No. 994,842; June 13; Sp. p. 1649; Gaz. vol. 167; p. 296.
Explosive. J. Sayers, W. A. Wilson, and J. Thorburn. No. 995,187; June 13; Sp. p. 2371; Gaz. vol. 167; p. 411.
Explosive. J. Sayers, W. A. Wilson, and J. Thorburn. No. 995,373; June 13; Sp. p. 2774; Gaz. vol. 167; p. 473.
Explosive. J. Sayers, W. A. Wilson, and J. Thorburn. No. 995,374; June 13; Sp. p. 2775; Gaz. vol. 167; p. 473.
Explosive. J. Sayers, W. A. Wilson, and J. Thorburn. No. 995,375; June 13; Sp. p. 2777; Gaz. vol. 167; p. 473.
Explosive. J. Sayers, W. A. Wilson, and J. Thorburn. No. 995,376; June 13; Sp. p. 2778; Gaz. vol. 167; p. 473.
Explosive. R. Imperiali. No. 998,007; July 18; Sp. p. 3051; Gaz. vol. 168; p. 556.
Explosive. J. G. Nathurst. No. 1,005,739; Oct. 10; Sp. p. 2559; Gaz. vol. 171; p. 440.
Explosive. M. F. Lindsley. No. 1,008,725; Nov. 14; Sp. p. 2487; Gaz. vol. 172; p. 419.
Explosive. G. M. Peters and M. F. Lindsley. No. 1,011,238; Dec. 12; Sp. p. 1888; Gaz. vol. 173; p. 326.
Explosive and other engine. T. R. Moore. No. 986,021; Mar. 7; Sp. p. 573; Gaz. vol. 164; p. 91.
Explosive and producing the same and its ingredients. H. Hibbert. No. 1,008,333; Nov. 14; Sp. p. 1529; Gaz. vol. 172; p. 280.
Explosive compound. W. F. Hancock. No. 995,134; June 13; Sp. p. 2261; Gaz. vol. 167; p. 394.
Explosive compound. G. G. King and M. F. Lindsley. No. 1,012,368; Dec. 19; Sp. p. 4416; Gaz. vol. 173; p. 756.
Explosive compound and manufacturing the same. D. M. Stirton. No. 995,579; June 20; Sp. p. 3243; Gaz. vol. 167; p. 573.
Explosive-engine. M. B. Morgan. No. 985,920; Mar. 7; Sp. p. 347; Gaz. vol. 164; p. 56.
Explosive-engine. E. H. Sherbondy. No. 988,514; Apr. 4; Sp. p. 474; Gaz. vol. 165; p. 76.
Explosive-engine. H. E. Norris. No. 988,650; Apr. 4; Sp. p. 776; Gaz. vol. 165; p. 124.
Explosive-engine. C. E. Goodrich. No. 988,704; Apr. 4; Sp. p. 902; Gaz. vol. 165; p. 142.
Explosive-engine. N. O. Allyn. No. 989,221; Apr. 11; Sp. p. 1950; Gaz. vol. 165; p. 337.
Explosive-engine. F. J. Miner. No. 991,631; May 9; Sp. p. 1726; Gaz. vol. 166; p. 317.
Explosive-engine. A. Y. Edwards. No. 993,664; May 30; Sp. p. 6100; Gaz. vol. 166; p. 1105.
Explosive-engine. S. D. Shakley. No. 994,541; June 6; Sp. p. 915; Gaz. vol. 167; p. 151.
Explosive-engine. T. W. Keen. No. 997,138; July 4; Sp. p. 1141; Gaz. vol. 168; p. 184.
Explosive-engine. C. I. U. Hickling. No. 997,675; July 11; Sp. p. 2250; Gaz. vol. 168; p. 398.
Explosive-engine. F. W. Peck. No. 999,518; Aug. 1; Sp. p. 641; Gaz. vol. 169; p. 110.
Explosive-engine. W. Ottaway. No. 1,000,543; Aug. 15; Sp. p. 2853; Gaz. vol. 169; p. 523.
Explosive-engine. W. W. Wells. No. 1,001,485; Aug. 22; Sp. p. 4882; Gaz. vol. 169; p. 881.
Explosive-engine. J. W. Meaker. No. 1,002,423; Sept. 5; Sp. p. 559; Gaz. vol. 170; p. 79.
Explosive-engine. C. D. Heaton, Jr. No. 1,005,969; Oct. 17; Sp. p. 3081; Gaz. vol. 171; p. 554.
Explosive-engine. H. H. Wixon. No. 1,006,037; Oct. 17; Sp. p. 3211; Gaz. vol. 171; p. 576.
Explosive-engine. W. J. Wright. No. 1,006,165; Oct. 17; Sp. p. 3506; Gaz. vol. 171; p. 622.
Explosive-engine. W. J. Wright. No. 1,006,166; Oct. 17; Sp. p. 3509; Gaz. vol. 171; p. 622.
Explosive-engine. W. J. Wright. No. 1,006,167; Oct. 17; Sp. p. 3513; Gaz. vol. 171; p. 623.
Explosive-engine. W. J. Wright. No. 1,006,168; Oct. 17; Sp. p. 3518; Gaz. vol. 171; p. 623.
Explosive-engine. A. A. Low and H. Hertzberg. No. 1,006,244; Oct. 17; Sp. p. 3701; Gaz. vol. 171; p. 651.
Explosive-engine. E. H. Belknap and J. W. Swartz. No. 1,007,842; Nov. 7; Sp. p. 459; Gaz. vol. 172; p. 68.
Explosive-engine. W. Stephenson. No. 1,012,288; Dec. 19; Sp. p. 4250; Gaz. vol. 173; p. 730.
Explosive-engine. F. S. Harmer. No. 1,012,635; Dec. 26; Sp. p. 4963; Gaz. vol. 173; p. 892.
Explosive-engine and air-propeller, Combined. W. Harper, Jr. No. 1,012,201; Dec. 19; Sp. p. 4070; Gaz. vol. 173; p. 699.
Explosive-engine, Motor-vehicle. G. M. Eames. No. 981,251; Jan. 10; Sp. p. 2481; Gaz. vol. 162; p. 403.
Explosive-engine, Rotary-cylinder. A. Schinkez. No. 1,007,240; Oct. 31; Sp. p. 5931; Gaz. vol. 171; p. 1082.
Explosive-generator. W. N. Howell. No. 1,000,410; Aug. 15; Sp. p. 2554; Gaz. vol. 169; p. 476.
Explosive joke-box. C. J. Peterson. No. 986,212; Mar. 7; Sp. p. 945; Gaz. vol. 164; p. 154.
Explosive-manufacturing machine, High-. A. Ellis. No. 1,003,243; Sept. 12; Sp. p. 2333; Gaz. vol. 170; p. 401.
Explosives, Electric system for discharging. R. E. Noble. No. 1,012,146; Dec. 19; Sp. p. 3941; Gaz. vol. 173; p. 681.
Explosives, Machine for filling shells with. H. Talley. No. 995,045; June 13; Sp. p. 2089; Gaz. vol. 167; p. 364.
Explosives, Machine for filling shells with. H. Talley. No. 995,046; June 13; Sp. p. 2094; Gaz. vol. 167; p. 365.
Explosives, Making material for. G. E. Bailey. No. 989,519; Apr. 11; Sp. p. 2598; Gaz. vol. 165; p. 439.
Express matter, &c., Apparatus for facilitating the distribution of. C. W. Hunt. No. 1,004,687; Oct. 3; Sp. p. 296; Gaz. vol. 171; p. 50.
Express matter, &c., Apparatus for facilitating the distribution of. C. W. Hunt. No. 1,004,688; Oct. 3; Sp. p. 298; Gaz. vol. 171; p. 50.
Expressing moisture and forming fabricated sheets, Apparatus for. C. L. Wells and C. R. Reynolds. No. 996,819; July 4; Sp. p. 451; Gaz. vol. 168; p. 75.
Expression and tempo indicator. W. G. Betz. No. 984,466; Feb. 14; Sp. p. 2606; Gaz. vol. 163; p. 440.
Expression, Process of and apparatus for. J. J. Berrigan. No. 994,495; June 6; Sp. p. 797; Gaz. vol. 167; p. 136.
Extensible bracket. A. Dahlen. No. 997,650; July 11; Sp. p. 2202; Gaz. vol. 168; p. 390.
Extensible table. B. H. Carnovsky. No. 986,417; Mar. 7; Sp. p. 1389; Gaz. vol. 164; p. 224.
Extensible table. B. H. Carnovsky. No. 1,012,519; Dec. 19; Sp. p. 4692; Gaz. vol. 173; p. 806.
Extension-bracket for foundations. J. W. Young. No. 1,007,511; Oct. 31; Sp. p. 6510; Gaz. vol. 171; p. 1177.
Extension-pipe. H. P., E. M., F. A., and L. W. Ley. No. 982,836; Jan. 31; Sp. p. 5833; Gaz. vol. 162; p. 1027.
Extension-table. E. Tyden. No. 981,143; Jan. 10; Sp. p. 2209; Gaz. vol. 162; p. 364.
Extension-table. E. Tyden. No. 981,145; Jan. 10; Sp. p. 2216; Gaz. vol. 162; p. 365.
Extension-table. C. S. Burton. No. 981,163; Jan. 10; Sp. p. 2248; Gaz. vol. 162; p. 372.
Extension-table. A. S. Shapiro. No. 984,244; Feb. 14; Sp. p. 2159; Gaz. vol. 163; p. 366.
Extension-table. J. K. Rishel. No. 985,839; Mar. 7; Sp. p. 174; Gaz. vol. 164; p. 28.

Alphabetical list of inventions—Continued.

Extension-table. E. J. Roberts. No. 992,066; May 9; Sp. p. 2602; Gaz. vol. 166; p. 463.
Extension-table. C. Mosch. No. 998,110; July 18; Sp. p. 3285; Gaz. vol. 168; p. 592.
Extension-table. E. Tyden. No. 1,004,220; Sept. 26; Sp. p. 4510; Gaz. vol. 170; p. 798.
Extension-table. E. Tyden. No. 1,004,221; Sept. 26; Sp. p. 4512; Gaz. vol. 170; p. 798.
Extension-table. A. J. Andersen. No. 1,004,961; Oct. 3; Sp. p. 883; Gaz. vol. 171; p. 145.
Extension-table. G. Arndt. No. 1,009,034; Nov. 21; Sp. p. 3142; Gaz. vol. 172; p. 557.
Extension-table. J. J. Schroeder. No. 1,010,321; Nov. 28; Sp. p. 5854; Gaz. vol. 172; p. 1043.
Extension-table, Pedestal. S. Kjallgren. No. 996,261; June 27; Sp. p. 4757; Gaz. vol. 167; p. 843.
Extension-table, Round-top. C. W. Munz. No. 991,875; May 9; Sp. p. 2230; Gaz. vol. 166; p. 398.
Extension-table, Round-top. G. W. Graves. No. 993,517; May 30; Sp. p. 5768; Gaz. vol. 166; p. 1054.
Extension-table, Round-top. C. W. Munz. No. 993,539; May 30; Sp. p. 5813; Gaz. vol. 166; p. 1061.
Extraction process and apparatus therefor. J. J. Berrigan. No. 994,631; June 6; Sp. p. 1095; Gaz. vol. 167; p. 182.
Extractor: *See* Cork-extractor; Cream-extractor; Drill-extractor; Fish-hook extractor; Fruit, stone, and core extractor; Juice-extractor; Nail-extractor; Pen-extractor; Stopper-extractor; Stump-extractor; Tooth-extractor; Tube-extractor; Veterinary molar-extractor.
Extractor-cover, Safety. W. Bartholomew. No. 1,002,894; Sept. 12; Sp. p. 1607; Gaz. vol. 170; p. 278.
Eye-shield. G. Moritz. No. 984,017; Feb. 14; Sp. p. 1673; Gaz. vol. 163; p. 288.
Eye-shield. R. Malcom. No. 988,005; Mar. 28; Sp. p. 4810; Gaz. vol. 164; p. 857.
Eye-testing machine. J. Savoie. No. 988,036; Mar. 28; Sp. p. 4881; Gaz. vol. 164; p. 867.
Eyes, Mechanical. P. C. Jacquerod. No. 1,008,471; Nov. 14; Sp. p. 1924; Gaz. vol 172; p. 329.
Eyeglass and spectacle rim. J. C. Wells. No. 989,218; Apr. 11; Sp. p. 1945; Gaz. vol. 165; p. 336.
Eyeglass-bow, Detachable. C. F. Ingold. No. 994,925; June 13; Sp. p. 1842; Gaz. vol. 167; p. 324.
Eyeglass-case. J. E. Boyle. No. 1,008,523; Nov. 14; Sp. p. 2026; Gaz. vol. 172; p. 346.
Eyeglass-chain reel. L. T. Scott. No. 992,269; May 16; Sp. p. 3094; Gaz. vol. 166; p. 563.
Eyeglass-cleaner. C. Lehmann. No. 1,003,761; Sept. 19; Sp. p. 3433; Gaz. vol. 170; p. 612.
Eyeglass-guard. W. D. Thomas. No. 994,346; June 6; Sp. p. 500; Gaz. vol. 167; p. 86.
Eyeglass-holder. L. W. Price. No. 993,404; May 30; Sp. p. 5513; Gaz. vol. 166; p. 1015.
Eyeglass-holder. H. J. Brennecke. No. 995,840; June 20; Sp. p. 3828; Gaz. vol. 167; p. 666.
Eyeglass-mounting. J. M. Chappel. No. 983,204; Jan. 31; Sp. p. 6603; Gaz. vol. 162; p. 1149.
Eyeglass-mounting. G. A. Squier. No. 989,073; Apr. 11; Sp. p. 1650; Gaz. vol. 165; p. 287.
Eyeglass-mounting. F. A. Stevens. No. 989,077; Apr. 11; Sp. p. 1660; Gaz. vol. 165; p. 288.
Eyeglass-mounting. G. A. Bader. No. 989,551; Apr. 18; Sp. p. 2698; Gaz. vol. 165; p. 481.
Eyeglass-mounting. C. M. Stevenson. No. 994,283; June 6; Sp. p. 373; Gaz. vol. 167; p. 63.
Eyeglass-mounting. S. J. Clulee. No. 995,661; June 20; Sp. p. 3424; Gaz. vol. 167; p. 603.
Eyeglass-mounting. L. F. Adt. No. 999,727; Aug. 8; Sp. p. 1056; Gaz. vol. 169; p. 212.
Eyeglass-mounting. G. J. Lowres. No. 1,001,156; Aug. 22; Sp. p. 4219; Gaz. vol. 169; p. 772.
Eyeglass-mounting. G. A. Squier. No. 1,003,539; Sept. 19; Sp. p. 2935; Gaz. vol. 170; p. 536.
Eyeglass-mounting. L. F. Adt. No. 1,004,954; Oct. 3; Sp. p. 873; Gaz. vol. 171; p. 142.
Eyeglass-mounting. I. Fox. No. 1,006,742; Oct. 24; Sp. p. 4797; Gaz. vol. 171; p. 853.
Eyeglass-mounting. G. R. Hare. No. 1,008,540; Nov. 14; Sp. p. 2066; Gaz. vol. 172; p. 353.
Eyeglass nose-guard. L. F. Adt. No. 1,003,685; Sept. 19; Sp. p. 3284; Gaz. vol. 170; p. 588.
Eyeglass nose-guard. L. F. Adt. No. 1,006,894; Oct. 24; Sp. p. 5171; Gaz. vol. 171; p. 908.
Eyeglass nose-guard. S. C. Laflin. No. 1,010,154; Nov. 28; Sp. p. 5513; Gaz. vol. 172; p. 988.
Eyeglass-receptacle. G. J. Kirby. No. 991,323; May 2; Sp. p. 1069; Gaz. vol. 166; p. 179.
Eyeglass-washer, Tubular. N. M. Baker. No. 1,005,766; Oct. 10; Sp. p. 2611; Gaz. vol. 171; p. 450.
Eyeglasses. F. W. Nolte. No. 982,985; Jan. 31; Sp. p. 6162; Gaz. vol. 162; p. 1076.
Eyeglasses. T. F. Baber. No. 986,795; Mar. 14; Sp. p. 2200; Gaz. vol. 164; p. 383.
Eyeglasses. L. F. Adt. No. 987,100; Mar. 21; Sp. p. 2796; Gaz. vol. 164; p. 515.
Eyeglasses. R. Straubel and C. J. Vetter. No. 988,954; Apr. 4; Sp. p. 1383; Gaz. vol. 165; p. 222.
Eyeglasses. L. F. Adt. No. 991,766; May 9; Sp. p. 2004; Gaz. vol. 166; p. 361.
Eyeglasses. L. F. Adt. No. 994,233; June 6; Sp. p. 270; Gaz. vol. 167; p. 47.
Eyeglasses. S. J. Clulee. No. 996,062; June 27; Sp. p. 4280; Gaz. vol. 167; p. 777.
Eyeglasses. P. Z. McDonald. No. 998,626; July 25; Sp. p. 4411; Gaz. vol. 168; p. 807.
Eyeglasses. L. F. Adt. No. 999,726; Aug. 8; Sp. p. 1053; Gaz. vol. 169; p. 211.
Eyeglasses. L. B. Becker. No. 1,002,627; Sept. 5; Sp. p. 1005; Gaz. vol. 170; p. 149.
Eyeglasses. N. M. Baker. No. 1,005,133; Oct. 10; Sp. p. 1193; Gaz. vol. 171; p. 224.
Eyeglasses. L. F. Adt. No. 1,007,321; Oct. 31; Sp. p. 6099; Gaz. vol. 171; p. 1111.
Eyeglasses. O. B. Carson and H. H. Styll. No. 1,008,240; Nov. 7; Sp. p. 1280; Gaz. vol. 172; p. 209.
Eyeglasses and spectacles. J. C. Wells. No. 1,001,568; Aug. 22; Sp. p. 5043; Gaz. vol. 169; p. 909.
Eyeglasses, Detachable bow for. C. F. Ingold. No. 1,011,959; Dec. 19; Sp. p. 3508; Gaz. vol. 173; p. 614.
Eyeglasses, Lens-clip for rimless. S. Stott. No. 996,534; June 27; Sp. p. 5355; Gaz. vol. 167; p. 937.
Eyeglasses, Multifocal lens for. A. J. Bowers. (Reissue.) No. 13,298; Oct. 10; Sp. p. 2657; Gaz. vol. 171; p. 458.
Eyelash, Artificial. A. Taylor. No. 994,619; June 6; Sp. p. 1071; Gaz. vol. 167; p. 178.
Eyelet. F. D. Ogden. No. 985,761; Feb. 28; Sp. p. 5452; Gaz. vol. 163; p. 956.
Eyelet and the like. F. D. Ogden. No. 985,762; Feb. 28; Sp. p. 5453; Gaz. vol. 163; p. 956.
Eyelet-baking can. J. H. Harrington. No. 1,000,803; Aug. 15; Sp. p. 3428; Gaz. vol. 169; p. 616.
Eyelet-holding apparatus. W. F. Corkery. No. 1,012,192; Dec. 19; Sp. p. 4049; Gaz. vol. 173; p. 696.
Eyelet-manufacturing machine. L. P. Eisenbeis. No. 1,005,622; Oct. 10; Sp. p. 2321; Gaz. vol. 171; p. 400.
Eyelet-setting machine. W. Hughes. No. 1,008,036; Nov. 7; Sp. p. 842; Gaz. vol. 172; p. 134.
Eyelet-tape. G. H. Wicke. No. 1,000,765; Aug. 15; Sp. p. 3340; Gaz. vol. 169; p. 602.
Eyeleting-machine. W. Shaw. No. 1,006,011; Oct. 17; Sp. p. 3157; Gaz. vol. 171; p. 567.
Fabric: *See* Adhesive fabric; Bed-bottom fabric; Bed-spring fabric; Fence fabric; Inflatable-article fabric; Interlocking-hook fabric; Knitted fabric; Pile fabric; Rubber fabric; Textile fabric; Tubular ribbed fabric; Wire fabric; Worsted fabric; Woven fabric.
Fabric and treating the same. N. Hirsch. No. 991,988; May 9; Sp. p. 2459; Gaz. vol. 166; p. 437.
Fabric, Apparatus for treating adhesive-coated. A. Thoma. No. 986,032; Mar. 7; Sp. p. 595; Gaz. vol. 164; p. 96.
Fabric, Automatic machine for applying longitudinally and spirally laid coated cords or threads to produce a. E. D. C. Bayne and L. A. Subers. No. 990,694; Apr. 25; Sp. p. 5241; Gaz. vol. 165; p. 905.
Fabric, Automatic machine for laying adhering cords or threads upon a stationary mandrel to form an unwoven. E. D. C. Bayne and L. A. Subers. No. 987,791; Mar. 28; Sp. p. 4289; Gaz. vol. 164; p. 782.
Fabric-carrying apparatus. J. Zillhardt. No. 1,000,478; Aug. 15; Sp. p. 2698; Gaz. vol. 169; p. 501.
Fabric-dressing apparatus. M. Ratignier and H. Pervilhac. No. 982,158; Jan. 17; Sp. p. 4394; Gaz. vol. 162; p. 736.
Fabric-folding machine. H. Barker, J. Dean, P. Grandage, and L. Jackson. No. 1,001,604; Aug. 29; Sp. p. 5132; Gaz. vol. 169; p. 952.
Fabric guiding and gaging device. A. H. De Voe. No. 1,005,814; Oct. 17; Sp. p. 2719; Gaz. vol. 171; p. 497.
Fabric holder and exhibitor. F. A. Raabe. No. 985,060; Feb. 21; Sp. p. 3859; Gaz. vol. 163; p. 681.
Fabric-holding loop and clasp. C. W. Stimson. No. 981,029; Jan. 10; Sp. p. 1965; Gaz. vol. 162; p. 324.
Fabric-impregnating machine. P. W. Pratt. No. 1,011,242; Dec. 12; Sp. p. 1901; Gaz. vol. 173; p. 328.
Fabric, Method and apparatus for handling coated reinforcing. A. Thoma. (Reissue.) No. 13,213; Feb. 21; Sp. p. 3982; Gaz. vol. 163; p. 705.
Fabric-opening device. F. Chatfield. No. 995,522; June 20; Sp. p. 3110; Gaz. vol. 167; p. 553.
Fabric-package. G. H. Sibley. No. 1,005,787; Oct. 10; Sp. p. 2654; Gaz. vol. 171; p. 458.
Fabric, Preparing backgrounds on pile. R. T. Swenning. No. 997,101; July 4; Sp. p. 1068; Gaz. vol. 168; p. 172.
Fabric-pressing machine. T. Patchett and J. W. Burke. No. 996,790; July 4; Sp. p. 379; Gaz. vol. 168; p. 64.
Fabric-roll-edge protector. G. J. Oltsch. No. 996,510; June 27; Sp. p. 5297; Gaz. vol. 167; p. 929.
Fabric-roll-edge protector. G. J. Oltsch. No. 996,511; June 27; Sp. p. 5298; Gaz. vol. 167; p. 929.
Fabric-support mounting. C. K. Warren. No. 1,010,545; Dec. 5; Sp. p. 315; Gaz. vol. 173; p. 50.
Fabric, Treating adhesive-coated. A. Thoma. No. 983,327; Feb. 7; Sp. p. 149; Gaz. vol. 163; p. 26.
Fabric-treating apparatus, Textile-. I. E. Palmer. No. 985,695; Feb. 28; Sp. p. 5300; Gaz. vol. 163; p. 933.
Fabric-treating compound. S. M. Hermann. No. 1,008,332; Nov. 14; Sp. p. 1528; Gaz. vol. 172; p. 280.
Fabrics and threads therefor, Making. W. H. Bush. No. 990,836; May 2; Sp. p. 19; Gaz. vol. 166; p. 6.

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Fabrics, Device for restoring nap to. G. B. Dexter. No. 992,175; May 16; Sp. p. 2855; Gaz. vol. 166; p. 532.
Fabrics, Manufacture of cord. T. Sloper. No. 993,465; May 30; Sp. p. 5651; Gaz. vol. 166; p. 1034.
Fabrics, Metallic stock-shell for. W. F. Gammeter. No. 1,003,593; Sept. 19; Sp. p. 3072; Gaz. vol. 170; p. 554.
Fabrics, Ornamentation of open-mesh. W. H. Boone. No. 998,952; July 25; Sp. p. 5171; Gaz. vol. 168; p. 923.
Fabrics, Producing an undulated or loosened surface upon. M. Ratignier and H. Pervilhac. No. 1,012,914; Dec. 26; Sp. p. 5601; Gaz. vol. 173; p. 987.
Fabrics to rollers, Means for attaching. S. Hartshorn. No. 996,333; June 27; Sp. p. 4932; Gaz. vol. 167; p. 868.
Fabrics, Treatment of. A. Huillard. No. 1,008,413; Nov. 14; Sp. p. 1772; Gaz. vol. 172; p. 308.
Fabrics, Waterproofing. P. O. Keilholtz. No. 994,931; June 13; Sp. p. 1853; Gaz. vol. 167; p. 326.
Fabrics within a frame, Device for securing the edges of. E. Carlson. No. 1,005,509; Oct. 10; Sp. p. 2046; Gaz. vol. 171; p. 360.
Face-protector. F. S. Lozuaway. No. 999,459; Aug. 1; Sp. p. 522; Gaz. vol. 169; p. 92.
Facing-machine. B. Holt. No. 1,009,905; Nov. 28; Sp. p. 5000; Gaz. vol. 172; p. 903.
Facing machine, Pedestal-jaw-. R. A. Marsh. No. 999,576; Aug. 1; Sp. p. 758; Gaz. vol. 169; p. 131.
Fall-rope carrier. H. Whiting. No. 983,526; Feb. 7; Sp. p. 570; Gaz. vol. 163; p. 91.
Fall-rope carrier. J. T. Horton and E. H. Deline. No. 1,003,261; Sept. 12; Sp. p. 2373; Gaz. vol. 170; p. 407.
Fan. J. Henz. No. 984,918; Feb. 21; Sp. p. 3584; Gaz. vol. 163; p. 632.
Fan. W. F. Primley and H. E. Baer. No. 991,367; May 2; Sp. p. 1157; Gaz. vol. 166; p. 193.
Fan. W. F. Rothenberg. No. 995,725; June 20; Sp. p. 3553; Gaz. vol. 167; p. 625.
Fan. C. F. Oesterreicher. No. 997,082; July 4; Sp. p. 1033; Gaz. vol. 168; p. 166.
Fan. J. F. Hanrahan and H. A. Wende. No. 997,127; July 4; Sp. p. 1112; Gaz. vol. 168; p. 180.
Fan. J. Riley. No. 997,415; July 11; Sp. p. 1701; Gaz. vol. 168; p. 309.
Fan. J. F. Hanrahan. No. 997,808; July 11; Sp. p. 2591; Gaz. vol. 168; p. 444.
Fan. J. Kandera. No. 997,828; July 11; Sp. p. 2629; Gaz. vol. 168; p. 452.
Fan. F. L. Cavally, Jr. No. 1,000,665; Aug. 15; Sp. p. 3139; Gaz. vol. 169; p. 568.
Fan. J. G. Parkerson, Jr. No. 1,005,572; Oct. 10; Sp. p. 2213; Gaz. vol. 171; p. 383.
Fan. G. W. Smith and J. Gary. No. 1,011,259; Dec. 12; Sp. p. 1942; Gaz. vol. 173; p. 334.
Fan and pump, Centrifugal. G. M. Capell. No. 991,134; May 2; Sp. p. 650; Gaz. vol. 166; p. 111.
Fan and pump-wheel, Centrifugal. G. M. Capell. (Reissue.) No. 13,200; Feb. 7; Sp. p. 1321; Gaz. vol. 163; p. 210.
Fan attachment. J. E. Gilson. No. 984,208; Feb. 14; Sp. p. 2089; Gaz. vol. 163; p. 354.
Fan attachment for fly-wheels. C. Robert. No. 1,010,957; Dec. 5; Sp. p. 1231; Gaz. vol. 173; p. 195.
Fan, Circulating-. H. Jalonick. No. 997,678; July 11; Sp. p. 2254; Gaz. vol. 168; p. 398
Fan, Electric ceiling-. E. Marelli. No. 1,000,183; Aug. 8; Sp. p. 2059; Gaz. vol. 169; p. 367.
Fan, Motor-. I. J. O'Malley. No. 985,537; Feb. 28; Sp. p. 4968; Gaz. vol. 163; p. 879.
Fan, Oscillating. E. E. Hollander and C. M. Peterson. No. 1,005,429; Oct. 10; Sp. p. 1873; Gaz. vol. 171; p. 331.
Fan, Oscillating. B. A. Stowe. No. 1,012,110; Dec. 19; Sp. p. 3869; Gaz. vol. 173; p. 668.
Fan, Oscillating motor-driven. H. M. Shedd. No. 999,890; Aug. 8; Sp. p. 1405; Gaz. vol. 169; p. 267.
Fan, Portable thermal. C. J. Ramsburg, W. A. Phillips, and F. E. Swope, Jr. No. 992,061; May 9; Sp. p. 2590; Gaz. vol. 166; p. 461.
Fan, Rotary. P. P. Ryan. No. 982,691; Jan. 24; Sp. p. 5509; Gaz. vol. 162; p. 949.
Fan, Rotary. W. Meier. No. 983,389; Feb. 7; Sp. p. 286; Gaz. vol. 163; p. 48.
Fan, Rotary. W. Sparks. No. 989,884; Apr. 18; Sp. p. 3407; Gaz. vol. 165; p. 594.
Fan, Rotary. D. Fraser. No. 998,889; July 25; Sp. p. 5020; Gaz. vol. 168; p. 901.
Fan, Rotary. J. Inglis. No. 1,011,799; Dec. 12; Sp. p. 3148; Gaz. vol. 173; p. 526.
Fan, Spring-motor. L. Lefebvre. No. 1,002,065; Aug. 29; Sp. p. 6125; Gaz. vol. 169; p. 1107.
Fans, Adjustable support for electric. E. W. Brown. No. 994,904; June 13; Sp. p. 1799; Gaz. vol. 167; p. 317.
Fans, Driving device for gas-engine. G. J. Loomis. No. 994,764; June 13; Sp. p. 1467; Gaz. vol. 167; p. 269.
Fare-box. G. B. Kohler. No. 988,881; Apr. 4; Sp. p. 1242; Gaz. vol. 165; p. 199.
Fare-box. B. Legault. No. 1,003,054; Sept. 12; Sp. p. 1920; Gaz. vol. 170; p. 332.
Fare-box, Recording. W. J. Mackle. No. 1,004,447; Sept. 26; Sp. p. 4967; Gaz. vol. 170; p. 874.
Fare-register. J. F. Ohmer. No. 987,643; Mar. 21; Sp. p. 3950; Gaz. vol. 164; p. 704.
Fare-register. C. F. Littlejohn. No. 1,010,279; Nov. 28; Sp. p. 5771; Gaz. vol. 172; p. 1030.
Fare register and recorder. J. F. Ohmer. No. 992,381; May 16; Sp. p. 3354; Gaz. vol. 166; p. 604.
Fare-register, Automatic. D. J. Toal. No. 986,523; Mar. 14; Sp. p. 1627; Gaz. vol. 164; p. 289.
Fare-slip holder, Cash-. H. E. Thomsen and W. A. Rienhardt. No. 1,011,393; Dec. 12; Sp. p. 2234; Gaz. vol. 173; p. 381.
Farm-gate. M. Loomis. No. 983,733; Feb. 7; Sp. p. 1018; Gaz. vol. 163; p. 163.
Farm-gate. E. Gilbert. No. 985,025; Feb. 21; Sp. p. 3784; Gaz. vol. 163; p. 668.
Farm-gate. T. S. and S. T. Heggen. No. 987,574; Mar. 21; Sp. p. 3811; Gaz. vol. 164; p. 679.
Farm-gate. H. H. Bell. No. 998,739; July 25; Sp. p. 4686; Gaz. vol. 168; p. 848.
Farm-gate. J. N. Neal and R. T. Van Valkenburg. No. 1,001,976; Aug. 29; Sp. p. 5952; Gaz. vol. 169; p. 1078.
Farm-gate. O. N. Huntosh and E. E. Bonn. No. 1,002,404; Sept. 5; Sp. p. 517; Gaz. vol. 170; p. 73.
Farm-gate. L. Z. Preston. No. 1,004,196; Sept. 26; Sp. p. 4467; Gaz. vol. 170; p. 790.
Farm-gate. J. B. Storms. No. 1,008,678; Nov. 14; Sp. p. 2384; Gaz. vol. 172; p. 402.
Farm-gate. O. J. Wyman. No. 1,011,548; Dec. 12; Sp. p. 2582; Gaz. vol. 173; p. 437.
Farm-gate. O. L. Huffman. No. 1,012,357; Dec. 19; Sp. p. 4393; Gaz. vol. 173; p. 752.
Farm-gate, Self-closing. G. R. Clarke. No. 997,753; July 11; Sp. p. 2444; Gaz. vol. 168; p. 426.
Farming implement. C. Stewart. No. 990,921; May 2; Sp. p. 205; Gaz. vol. 166; p. 36.
Farming implements, Device for holding teeth in. M. K. Noaker. No. 999,516; Aug. 1; Sp. p. 639; Gaz. vol. 169; p. 110.
Fastener. J. Jacomin. No. 981,654; Jan. 17; Sp. p. 3305; Gaz. vol. 162; p. 561.
Fastener. M. T. Goldsmith. No. 986,053; Mar. 7; Sp. p. 637; Gaz. vol. 164; p. 103.
Fastener. A. E. England. No. 988,558; Apr. 4; Sp. p. 566; Gaz. vol. 165; p. 91.
Fastener. J. H. Stillwaggon. No. 988,743; Apr. 4; Sp. p. 975; Gaz. vol. 165; p. 155.
Fastener. J. Battenfeld. No. 991,192; May 2; Sp. p. 781; Gaz. vol. 166; p. 132.
Fastener. C. Koch. No. 995,686; June 20; Sp. p. 3474; Gaz. vol. 167; p. 612.
Fastener. W. R. Dutemple. No. 997,660; July 11; Sp. p. 2220; Gaz. vol. 168; p. 392.
Fastener and fence-post, Combined. F. Frost. No. 990,432; Apr. 25; Sp. p. 4647; Gaz. vol. 165; p. 817.
Fastener and seal. S. Baruch. No. 1,006,346; Oct. 17; Sp. p. 3923; Gaz. vol. 171; p. 685.
Fastener, Separable. N. A. Didierjean. No. 980,615; Jan. 3; Sp. p. 941; Gaz. vol. 162; p. 152.
Fastener stud, Detachable snap-. A. H. Greenebaum. No. 993,518; May 30; Sp. p. 5770; Gaz. vol. 166; p. 1054.
Fasteners, Machine for making corrugated saw-toothed metal. M. Fischer. No. 1,006,838; Oct. 24; Sp. p. 5044; Gaz. vol. 171; p. 889.
Fasteners, Making corrugated saw-toothed metal. M. Fischer. No. 985,737; Feb. 28; Sp. p. 5404; Gaz. vol. 163; p. 947.
Fasteners, Screw-stud for snap-. H. Kerngood. No. 991,156; May 2; Sp. p. 704; Gaz. vol. 166; p. 119.
Fastening. A. L. Creger. No. 982,799; Jan. 31; Sp. p. 5754; Gaz. vol. 162; p. 1014.
Fastening. A. H. Bobb. No. 992,638; May 16; Sp. p. 3886; Gaz. vol. 166; p. 692.
Fastening device. F. D. Schneider. No. 980,567; Jan. 3; Sp. p. 851; Gaz. vol. 162; p. 137.
Fastening device. A. E. England. No. 986,372; Mar. 7; Sp. p. 1294; Gaz. vol. 164; p. 209.
Fastening device. J. H. Skelton. No. 990,460; Apr. 25; Sp. p. 4696; Gaz. vol. 165; p. 825.
Fastening device. J. Kennedy. No. 991,447; May 2; Sp. p. 1318; Gaz. vol. 166; p. 220.
Fastening device. C. W. Stark. No. 999,413; Aug. 1; Sp. p. 438; Gaz. vol. 169; p. 77.
Fastening device. W. E. Sharp. No. 1,003,662; Sept. 19; Sp. p. 3213; Gaz. vol. 170; p. 579.
Fastening device. W. E. Hoffman. No. 1,003,907; Sept. 19; Sp. p. 3742; Gaz. vol. 170; p. 661.
Fastening device. A. G. Hoegren. No. 1,008,911; Nov. 14; Sp. p. 2850; Gaz. vol 172; p. 480.
Fastening device, Spring. J. Schade, Jr. No. 985,288; Feb. 28; Sp. p. 4411; Gaz. vol. 163; p. 794.
Fastening device, Spring. J. Schade, Jr. No. 1,005,786; Oct. 10; Sp. p. 2653; Gaz. vol. 171; p. 457.
Fastening-inserting machine. G. Bryant and W. Underwood. No. 999,203; Aug. 1; Sp. p. 23; Gaz. vol. 169; p. 6.
Fastening-inserting machine. I. C. Buckminster. No. 1,000,490; Aug. 15; Sp. p. 2727; Gaz. vol. 169; p. 505.
Fastening-inserting machine. W. H. Cuff. No. 1,000,998; Aug. 22; Sp. p. 3884; Gaz. vol. 169; p. 718.
Fastening inserting-machine. F. H. Perry. No. 1,002,864; Sept. 12; Sp. p. 1524; Gaz. vol. 170; p. 267.
Fastening-inserting machine. J. G. Gibson and G. Pegg. No. 1,004,772; Oct. 3; Sp. p. 487; Gaz. vol. 171; p. 80.

Alphabetical list of inventions—Continued.

Fastening-inserting machine. G. A. Ambler. No. 1,005,920; Oct. 17; Sp. p. 2961; Gaz. vol. 171; p. 536.
Fastening-inserting machine. L. A. Casgrain. No. 1,006,533; Oct. 24, Sp. p. 4356; Gaz. vol. 171; p. 781.
Fastening-inserting machine. L. A. Casgrain. No. 1,012,811; Dec. 26; Sp. p. 5356; Gaz. vol. 173; p. 953.
Fastening-inserting mechanism. B. N. Clary. No. 1,003,984; Sept. 26; Sp. p. 3940; Gaz. vol. 170; p. 715.
Fastening, Metallic. G. W. McGill. No. 985,825; Mar. 7; Sp. p. 119; Gaz. vol. 164; p. 23.
Fat-cutting machine. F. D. Gearhart. No. 1,004,641; Oct. 3; Sp. p. 196; Gaz. vol. 171; p. 34.
Fat-extraction apparatus. H. L. Walter and C. E. Goodrich. No. 1,010,991; Dec. 5; Sp. p. 1300; Gaz. vol. 173; p. 207.
Fat from cocoanuts and other similar nuts, Producing edible and odorless. G. C. Warr. No. 992,525; May 16; Sp. p. 3643; Gaz. vol. 166; p. 654.
Fatty-acid compounds, Manufacturing new organic. H. Rössner and W. Cotton. No. 988,032; Mar. 28; Sp. p. 4871; Gaz. vol. 164; p. 866.
Fatty acids of high molecular weight and making same, Earth-alkali salts of diiodo. A. Baselli. No. 988,006; Mar. 28; Sp. p. 4943; Gaz. vol. 164; p. 877.
Fatty compound and making same, Edible. T. Möller. No. 1,004,891; Oct. 3; Sp. p. 761; Gaz. vol. 171; p. 122.
Faucet. C. B. Stilwell. No. 980,698; Jan. 3; Sp. p. 1125; Gaz. vol. 162; p. 180.
Faucet. J. C. Wells. No. 980,718; Jan. 3; Sp. p. 1169; Gaz. vol. 162; p. 186.
Faucet. H. G. Cordley. No. 981,842; Jan. 17; Sp. p. 3717; Gaz. vol. 162; p. 628.
Faucet. J. F. Hill. No. 982,675; Jan. 24; Sp. p. 5477; Gaz. vol. 162; p. 944.
Faucet. H. F. Neumeyer. No. 988,017; Mar. 28; Sp. p. 4842; Gaz. vol. 164; p. 861.
Faucet. W. L. Sparrow. No. 988,040; Mar. 28; Sp. p. 4896; Gaz. vol. 164; p. 869.
Faucet. C. A. Pride. No. 988,504; Apr. 4; Sp. p. 452; Gaz. vol. 165; p. 73.
Faucet. E. L. Thurston. No. 988,521; Apr. 4; Sp. p. 497; Gaz. vol. 165; p. 79.
Faucet. B. Whitehurst. No. 991,921; May 9; Sp. p. 2333; Gaz. vol. 166; p. 414.
Faucet. G. E. Clapp. No. 993,758; May 30; Sp. p. 6309; Gaz. vol. 166; p. 1138.
Faucet. H. P. Julius. No. 995,016; June 13; Sp. p. 2026; Gaz. vol. 167; p. 355.
Faucet. H. H. Sherk. No. 998,126; July 18; Sp. p. 3319; Gaz. vol. 168; p. 598.
Faucet. C. W. Donholt. No. 998,282; July 18; Sp. p. 3677; Gaz. vol. 168; p. 655.
Faucet. E. Godleskie. No. 998,496; July 18; Sp. p. 4116; Gaz. vol. 168; p. 730.
Faucet. A. J. Katelsen. No. 998,531; July 18; Sp. p. 4188; Gaz. vol. 168; p. 742.
Faucet. R. Howell. No. 999,109; July 25; Sp. p. 5486; Gaz. vol. 168; p. 976.
Faucet. F. Gruschow. No. 1,003,179; Sept. 12; Sp. p. 2192; Gaz. vol. 170; p. 376.
Faucet. J. M. Travis. No. 1,005,368; Oct. 10; Sp. p. 1744; Gaz. vol. 171; p. 311.
Faucet. A. Skjelstad. No. 1,006,012; Oct. 17; Sp. p. 3163; Gaz. vol. 171; p. 568.
Faucet. J. W. Terrell. No. 1,012,295; Dec. 19; Sp. p. 4271; Gaz. vol. 173; p. 732.
Faucet and valve. M. E. Joyce. No. 988,575; Apr. 4; Sp. p. 611; Gaz. vol. 165; p. 99.
Faucet, Antiseptic. A. A. Schratz. No. 1,001,461; Aug. 22; Sp. p. 4844; Gaz. vol. 169; p. 874.
Faucet attachment. H. Savage. No. 997,858; July 11; Sp. p. 2690; Gaz. vol. 168; p. 462.
Faucet-bung. D. Beebe. No. 983,019; Jan. 31; Sp. p. 6254; Gaz. vol. 162; p. 1088.
Faucet, Combination-. W. A. Fleming. No. 983,886; Feb. 14; Sp. p. 1372; Gaz. vol. 163; p. 246.
Faucet, Drinking-. J. P. Heeney. No. 994,747; June 13; Sp. p. 1423; Gaz. vol. 167; p. 264.
Faucet, Filtering-. F. Koss. No. 982,434; Jan. 24; Sp. p. 4984; Gaz. vol. 162; p. 862.
Faucet, Filtration-. B. Berger. No. 990,695; Apr. 25; Sp. p. 5247; Gaz. vol. 165; p. 905.
Faucet, Fluid-meter. W. C. Moore. No. 1,008,849; Nov. 14; Sp. p. 2738; Gaz. vol. 172; p. 461.
Faucet handle, Self-closing-. J. Mueller. No. 1,001,672; Aug. 29; Sp. p. 5278; Gaz. vol. 169; p. 976.
Faucet-operating device. F. A. and W. F. Bright. No. 988,076; Mar. 28; Sp. p. 4972; Gaz. vol. 164; p. 881.
Faucet or cock. J. H. Glauber. No. 1,007,554; Oct. 31; Sp. p. 6609; Gaz. vol. 171; p. 1192.
Faucet, Push-button. G. R. Long. No. 987,633; Mar. 21; Sp. p. 3928; Gaz. vol. 164; p. 699.
Faucet, Quick-closing. J. A. and D. H. Cochrane. No. 1,007,338; Oct. 31; Sp. p. 6127; Gaz. vol. 171; p. 1118.
Faucet, Removable. H. Stelck. No. 1,002,467; Sept. 5; Sp. p. 653; Gaz. vol. 170; p. 94.
Faucet, Sanitary drinking-. L. T. Haws. No. 985,757; Feb. 28; Sp. p. 5442; Gaz. vol. 163; p. 954.
Faucet, Self-closing. H. G. Cordley. No. 987,218; Mar. 21; Sp. p. 3084; Gaz. vol, 164; p. 559.
Faucet, Self-closing. G. S. Wilson. No. 1,012,779; Dec. 26; Sp. p. 5291; Gaz. vol. 173; p. 943.
Faucet, spigot, and cock. W. A. Alexander. No. 981,349; Jan. 10; Sp. p. 2693; Gaz. vol. 162; p. 437.
Faucet, Sterilizer-. E. C. Spurge. No. 1,000,206; Aug. 8; Sp. p. 2109; Gaz. vol. 169; p. 375.
Faucet-strainer. H. Mueller. No. 982,982; Jan. 31; Sp. p. 6158; Gaz. vol. 162; p. 1075.
Faucet, Two-way. F. Steiner. No. 981,711; Jan. 17; Sp. p. 3429; Gaz. vol. 162; p. 581.
Faucets, Buffer for beer-. P. F. W. Zabel and P. J. Glanz. No. 1,008,233; Nov. 7; Sp. p. 1270; Gaz. vol. 172; p. 207.
Faucets, Combined buffer-nipple and filter for water-. M. H. Smith. No. 981,702; Jan. 17; Sp. p. 3414; Gaz. vol. 162; p. 577.
Faucets, Safety-lock for. H. S. Gardner. No. 999,993; Aug. 8; Sp. p. 1582; Gaz. vol. 169; p. 298.
Faucets, Sign-exhibit attachment for. P. H. Kirby. No. 983,289; Feb. 7; Sp. p. 66; Gaz. vol. 163; p. 13.
Feather article, Imitation-. D. Metzger. No. 1,012,264; Dec. 19; Sp. p. 4199; Gaz. vol. 173; p. 720.
Feather articles, Making imitation-. D. Metzger. No. 988,010; Mar. 28; Sp. p. 4820; Gaz. vol. 164; p. 859.
Feather-edging machine. J. N. Busell. No. 1,003,981; Sept. 26; Sp. p. 3934; Gaz. vol. 170; p. 714.
Feather plume. J. G. De Grandmont. No. 1,005,959; Oct. 17; Sp. p. 3060; Gaz. vol. 171; p. 550.
Feather-renovator. E. Greiner. No. 983,549; Feb. 7; Sp. p. 638; Gaz. vol. 163; p. 100.
Feather-support, Adjustable. W. E. Hildebrand. No. 1,009,307; Nov. 21; Sp. p. 3753; Gaz. vol. 172; p. 654.
Feathers, Apparatus for grinding stems of. F. Birck. No. 994,633; June 6; Sp. p. 1117; Gaz. vol. 167; p. 183.
Featherbone blade, Machine for manufacturing. W. Webster. No. 982,323; Jan. 24; Sp. p. 4756; Gaz. vol. 162; p. 823.
Featherbone blade, Machine for manufacturing. W. Webster. No. 982,324; Jan. 24; Sp. p. 4759; Gaz. vol. 162; p. 824.
Feed and litter carrier. W. F. Jacobs. No. 981,272; Jan. 10; Sp. p. 2525; Gaz. vol. 162; p. 411.
Feed and litter carrier. H. L. and H. J. Ferris. No. 983,614; Feb. 7; Sp. p. 774; Gaz. vol. 163; p. 122.
Feed and litter carrier. C. M. Stevenson. No. 997,716; July 11; Sp. p. 2334; Gaz. vol. 168; p. 412.
Feed-bag. C. H. Avey. No. 993,286; May 23; Sp. p. 5244; Gaz. vol. 166; p. 941.
Feed-bag. A. Gaul, Jr. No. 995,957; June 20; Sp. p. 4059; Gaz. vol. 167; p. 706.
Feed-bag. A. A. Simon. No. 1,001,465; Aug. 22; Sp. p. 4850; Gaz. vol. 169; p. 875.
Feed-bag. H. H. Gardner. No. 1,008,899; Nov. 14; Sp. p. 2836; Gaz. vol. 172; p. 477.
Feed-bag. I. Kovacs. No. 1,010,152; Nov. 28; Sp. p. 5509; Gaz. vol. 172; p. 987.
Feed-bag. A. Pechy. No. 1,010,171; Nov. 28; Sp. p. 5547; Gaz. vol. 172; p. 993.
Feed-bag and holder. J. Q. Adams. No. 1,008,101; Nov. 7; Sp. p. 978; Gaz. vol. 172; p. 157.
Feed-bag and holder. J. Q. Adams. No. 1,012,045; Dec. 19; Sp. p. 3712; Gaz. vol. 173; p. 646.
Feed-bag, Animal. H. R. Haskell. No. 1,007,002; Oct. 24; Sp. p. 5383; Gaz. vol. 171; p. 944.
Feed-bag attachment. A. N. Pellant. No. 988,381; Apr. 4; Sp. p. 201; Gaz. vol. 165; p. 33.
Feed-bag for horses. B. F. Johnson. No. 1,007,110; Oct. 31; Sp. p. 5633; Gaz. vol. 171; p. 1035.
Feed-bag for horses. M. Rubin. No. 1,009,861; Nov. 28; Sp. p. 4924; Gaz. vol. 172; p. 889.
Feed-bag support. J. Brown. No. 992,107; May 9; Sp. p. 2673; Gaz. vol. 166; p. 476.
Feed-blending machine. J. A. Craig. No. 1,001,508; Aug. 22; Sp. p. 4923; Gaz. vol. 169; p. 889.
Feed, Boiler-. D. Goff. No. 985,409; Feb. 28; Sp. p. 4647; Gaz. vol. 163; p. 832.
Feed-box, Poultry. S. A. Vancil. No. 980,367; Jan. 3; Sp. p. 380; Gaz. vol. 162; p. 67.
Feed-box, Poultry. F. A. Zimmer. No. 994,296; June 6; Sp. p. 397; Gaz. vol. 167; p. 68.
Feed-crusher screening device. G. E. Sovereign. No. 994,960; June 13; Sp. p. 1910; Gaz. vol. 167; p. 336.
Feed-cutter self-feeder. A. Greve. No. 992,869; May 23; Sp. p. 4374; Gaz. vol 166; p. 803.
Feed-guide. G. C. James. No. 1,000,915; Aug. 15; Sp. p. 3650; Gaz. vol. 169; p. 656.
Feed, heater, and purifier for steam-boilers, Water. S. M. Walker. No. 998,816; July 25; Sp. p. 4841; Gaz. vol. 168; p. 874.
Feed mechanism, Variable-. C. G. Wilderson. No. 992,700; May 16; Sp. p. 3998; Gaz. vol. 166; p. 713.
Feed-mill. P. Van Huffel. No. 989,087; Apr. 11; Sp. p. 1678; Gaz. vol. 165; p. 292.
Feed-mixer. F. I. Derby. No. 986,553; Mar. 14; Sp. p. 1696; Gaz. vol. 164; p. 300.
Feed-mixer. G. E. Richmond. No. 994,032; May 30; Sp. p. 6850; Gaz. vol. 166; p. 1230.
Feed-packer. R. Maxwell. No. 1,003,006; Sept. 12; Sp. p. 1829; Gaz. vol. 170; p. 317.

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Feed-rack. T. B. Shaw. No. 988,599; Apr. 4; Sp. p. 667; Gaz. vol. 165; p. 107.
Feed-rack. G. M. Beerbower. No. 1,005,143; Oct. 10; Sp. p. 1216; Gaz. vol. 171; p. 227.
Feed-receptacle. G. L. Clark. No. 1,000,667; Aug. 15; Sp. p. 3141; Gaz. vol. 169; p. 569.
Feed-regulator. J. W. Searle. No. 990,395; Apr. 25; Sp. p. 4553; Gaz. vol. 165; p. 803.
Feed-regulator. R. H. Williams. No. 993,134; May 23; Sp. p. 4947; Gaz. vol. 166; p. 896.
Feed-regulator. F. H. Headen. No. 996,760; July 4; Sp. p. 324; Gaz. vol. 168; p. 55.
Feed-regulator. K. Dougan. No. 997,048; July 4; Sp. p. 970; Gaz. vol. 168; p. 155.
Feed-regulator. F. M. Lyon. No. 999,118; July 25; Sp. p. 5497; Gaz. vol. 168; p. 979.
Feed-regulator and speed-indicator, Alarm. A. Savage. No. 984,780; Feb. 21; Sp. p. 3330; Gaz. vol. 163; p. 587.
Feed-regulator for boilers and the like. J. Wyllie. No. 1,006,038; Oct. 17; Sp. p. 3219; Gaz. vol. 171; p. 577.
Feed-regulator for boilers, Automatic. F. E. Gould. No. 991,056; May 2; Sp. p. 467; Gaz. vol. 166; p. 81.
Feed-rollers. G. D. Trogdon. No. 997,479; July 11; Sp. p. 1819; Gaz. vol. 168; p. 329.
Feed, Steam-. L. J. Black. No. 993,748; May 30; Sp. p. 6289; Gaz. vol. 166; p. 1135.
Feed, Steam-. L. J. Black. No. 1,004,621; Oct. 3; Sp. p. 158; Gaz. vol. 171; p. 28.
Feed system, Multiple. A. T. Marshall. No. 1,003,283; Sept. 12; Sp. p. 2412; Gaz. vol. 170; p. 415.
Feed-trough. F. K. Crockford. No. 980,496; Jan. 3; Sp. p. 694; Gaz. vol. 162; p. 112.
Feed-trough. D. C. Worsham and W. Vandevender. No. 993,630; May 30; Sp. p. 6013; Gaz. vol. 166; p. 1093.
Feed-trough. W. Randall. No. 1,005,071; Oct. 3; Sp. p. 1078; Gaz. vol. 171; p. 181.
Feed-trough and rack, Combined. S. J. McGinnis. No. 985,047; Feb. 21; Sp. p. 3833; Gaz. vol. 163; p. 677.
Feed-trough, Animal. A. B. Taylor. No. 984,980; Feb. 21; Sp. p. 3695; Gaz. vol. 163; p. 652.
Feed-trough, Poultry. F. R. Parks. No. 989,282; Apr. 11; Sp. p. 2095; Gaz. vol. 165; p 358.
Feed-water cleaner and heater. E. Efran. No. 986,968; Mar. 14; Sp. p. 2553; Gaz. vol. 164; p. 442.
Feed-water controller. G. Fleming. No. 983,356; Feb. 7; Sp. p. 212; Gaz. vol. 163; p. 37.
Feed-water de-aerator. E. Kühne. No. 990,992; May 2; Sp. p. 346; Gaz. vol. 166; p. 60.
Feed-water heater. M. B. Cheek. No. 980,759; Jan. 3; Sp. p. 1241; Gaz. vol. 162; p. 199.
Feed-water heater. E. T. Turner. No. 981,901; Jan. 17; Sp. p. 3849; Gaz. vol. 162; p. 649.
Feed-water heater. F. Hodgkinson. No. 983,282; Feb. 7; Sp. p. 52; Gaz. vol. 163; p. 11.
Feed-water heater. C. Caille. No. 985,778; Mar. 7; Sp. p. 24; Gaz. vol. 164; p. 6.
Feed-water heater. J. S. Sweeny and W. W. Grindle. No. 988,223; Mar. 28; Sp. p. 5237; Gaz. vol. 164; p. 929.
Feed-water heater. J. S. Sweeny and W. W. Grindle. No. 988,224; Mar. 28; Sp. p. 5239; Gaz. vol. 164; p. 929.
Feed-water heater. J. S. Sweeny and W. W. Grindle. No. 988,225; Mar. 28; Sp. p. 5242; Gaz. vol. 164; p. 930.
Feed-water heater. H. C. Alger. No. 990,028; Apr. 18; Sp. p. 3724; Gaz. vol. 165; p. 644.
Feed-water heater. J. J. Hoppes. No. 995,349; June 13; Sp. p. 2716; Gaz. vol. 167; p. 464.
Feed-water heater. C. H. Koyl. No. 1,001,761; Aug. 29; Sp. p. 5477; Gaz. vol. 169; p. 1006.
Feed-water heater. J. M. Collins. No. 1,003,877; Sept. 19; Sp. p. 3663; Gaz. vol. 170; p. 651.
Feed-water heater. T. E. Grahn. No. 1,006,935; Oct. 24; Sp. p. 5247; Gaz. vol. 171; p. 923.
Feed-water heater and separator. J. W. Gamble. No. 996,578; June 27; Sp. p. 5439; Gaz. vol. 167; p. 951.
Feed-water heater and smoke-box protector. C. S. Allen and B. F. Croney. No. 989,938; Apr. 18; Sp. p. 3534; Gaz. vol. 165; p. 614.
Feed-water heater for locomotive and other steam-boilers. J. F. Fitzsimmons. No. 1,004,764; Oct. 3; Sp. p. 469; Gaz. vol. 171; p. 77.
Feed-water heater for locomotives. B. C. Monroe. No. 983,747; Feb. 7; Sp. p. 1052; Gaz. vol. 163; p. 168.
Feed-water heater for preventing pitting. J. C. Parker. No. 985,834; Mar. 7; Sp. p. 149; Gaz. vol. 164; p. 27.
Feed-water heater, Locomotive. M. C. Ross. No. 989,055; Apr. 11; Sp. p. 1607; Gaz. vol. 165; p. 282.
Feed-water heating and purifying apparatus. F. M. Harmon. No. 1,006,479; Oct. 24; Sp. p. 4239; Gaz. vol. 171; p. 761.
Feed-water-heating apparatus, Boiler. A. Pennell. No. 1,011,483; Dec. 12; Sp. p. 2438; Gaz. vol. 173; p. 415.
Feed-water purifier. C. H. Cort. No. 1,001,189; Aug. 22; Sp. p. 4284; Gaz. vol. 169; p. 782.
Feed-water purifier, heater, and circulator. J. C. Bennett. No. 998,741; July 25; Sp. p. 4690; Gaz. vol. 168; p. 849.
Feed-water regulator. F. N. Connet. No. 987,048; Mar. 14; Sp. p. 2706; Gaz. vol. 164; p. 467.
Feed-water regulator. H. E. Heisley. No. 989,357; Apr. 11; Sp. p. 2259; Gaz. vol. 165; p. 383.
Feed-water regulator. O. E. Williams. No. 993,628; May 30; Sp. p. 6009; Gaz. vol. 166; p. 1092.
Feed-water regulator. C. Brent. No. 995,841; June 20; Sp. p. 3829; Gaz. vol. 167; p. 666.
Feed-water regulator. C. O. Bergmark. No. 997,734; July 11; Sp. p. 2381; Gaz. vol. 168; p. 418.
Feed-water regulator. G. F. Patterson. No. 1,002,080; Aug. 29; Sp. p. 6153; Gaz. vol. 169; p. 1112.
Feed-water regulator. L. B. Fulton. No. 1,010,890; Dec. 5; Sp. p. 1093; Gaz. vol. 173; p. 171.
Feed-water regulator and alarm, Combined. L. C. Losinger. No. 1,005,246; Oct. 10; Sp. p. 1460; Gaz. vol. 171; p. 265.
Feed-water regulator, Boiler. D. R. Knapp and H. E. Cade. No. 999,317; Aug. 1; Sp. p. 233; Gaz. vol. 169; p. 44.
Feed-water regulator, Boiler. M. Balazik. No. 1,004,341; Sept. 26; Sp. p. 4740; Gaz. vol. 170; p. 838.
Feed-water regulator, Boiler. C. M. Clark and G. H. Gibson. No. 1,005,156; Oct. 10; Sp. p. 1247; Gaz. vol. 171; p. 232.
Feed-water regulator for steam-generators. W., T. W., and A. Lees. No. 1,000,024; Aug. 8; Sp. p. 1668; Gaz. vol. 169; p. 313.
Feed-water under pressure, Apparatus for filtering and extracting suspended matter from boiler. W. Pemberton. No. 1,011,482; Dec. 12; Sp. p. 2435; Gaz. vol. 173; p. 415.
Feeder and exerciser, Poultry. T. Lawry. No. 1,003,760; Sept. 19; Sp. p. 3431; Gaz. vol. 170; p. 612.
Feeder and loader. R. W. Hinderliter. No. 990,874; May 2; Sp. p. 104; Gaz. vol. 166; p. 19.
Feeder, Automatic. F. Persans. No. 991,358; May 2; Sp. p. 1136; Gaz. vol. 166; p. 190.
Feeder, Automatic. C. Owens. No. 998,116; July 18; Sp. p. 3303; Gaz. vol. 168; p. 595.
Feeder, Automatic stock-. F. M. Stephens. No. 998,423; July 18; Sp. p. 3981; Gaz. vol. 168; p. 705.
Feeder, Boiler-. G. C. Miller. No. 985,050; Feb. 21; Sp. p. 3838; Gaz. vol. 163; p. 678.
Feeder, Boiler-. W. Houser. No. 987,140; Mar. 21; Sp. p. 2885; Gaz. vol. 164; p. 530.
Feeder, Calf-. J. Moore. No. 1,002,426; Sept. 5; Sp. p. 567; Gaz. vol. 170; p. 80.
Feeder for steam-boilers, Automatic. T. J. Whitney. No. 998,142; July 18; Sp. p. 3347; Gaz. vol. 168; p. 603.
Feeder, Poultry-. A. H. Baker. No. 988,962; Apr. 11; Sp. p. 1405; Gaz. vol. 165; p. 249.
Feeder, Poultry-. O. E. Kutsche. No. 989,613; Apr. 18; Sp. p. 2838; Gaz. vol. 165; p. 502.
Feeder, Poultry-. L. V. Cockrum. No. 996,214; June 27; Sp. p. 4646; Gaz. vol. 167; p. 829.
Feeder, Poultry-. J. T. Freeman. No. 997,248; July 4; Sp. p. 1364; Gaz. vol. 168; p. 223.
Feeder, Poultry-. A. L. Sweet. No. 1,002,782; Sept. 5; Sp. p. 1332; Gaz. vol. 170; p. 201.
Feeder-regulating transformer. G. S. Neeley. No. 999,245; Aug. 1; Sp. p. 110; Gaz. vol. 169; p. 20.
Feeding and cutting mechanism. O. Briede. No. 984,887; Feb. 21; Sp. p. 3520; Gaz. vol. 163; p. 622.
Feeding and measuring device, Automatic. A. Ringland and F. B. Wood. No. 990,593; Apr. 25; Sp. p. 5002; Gaz. vol. 165; p. 872.
Feeding and mixing device. T. L. Valerius. No. 988,412; Apr. 4; Sp. p. 266; Gaz. vol. 165; p. 43.
Feeding animals, Automatic device for. C. E. Daniels. No. 1,004,855; Oct. 3; Sp. p. 669; Gaz. vol. 171; p. 109.
Feeding apparatus for machines for closing metal containers, Mechanical. A. Wilzin. No. 998,316; July 18; Sp. p. 3760; Gaz. vol. 168; p. 668.
Feeding apparatus, Hog-. C. G. Howard. No. 982,678; Jan. 24; Sp. p. 5482; Gaz. vol. 162; p. 945.
Feeding appliance, Boiler-. W. B. D. Ponninghaus. No. 992,243; May 16; Sp. p. 3012; Gaz. vol. 166; p. 555.
Feeding appliance, Boiler-. W. B. D. Ponninghaus. No. 995,901; June 20; Sp. p. 3955; Gaz. vol. 167; p. 686.
Feeding bag, Horse-. P. Toth. No. 1,011,674; Dec. 12; Sp. p. 2893; Gaz. vol. 173; p. 483.
Feeding device. L. E. Shaw. No. 991,758; May 9; Sp. p. 1992; Gaz. vol. 166; p. 358.
Feeding device. H. B. Cooley. No. 994,376; June 6; Sp. p. 574; Gaz. vol. 167; p. 98.
Feeding device. H. Kiehl. No. 998,013; July 18; Sp. p. 3062; Gaz. vol. 168; p. 558.
Feeding device. H. T. Haines. No. 1,010,752; Dec. 5; Sp. p. 788; Gaz. vol. 173; p. 124.
Feeding device. E. Seavey. No. 1,012,106; Dec. 19; Sp. p. 3855; Gaz. vol. 173; p. 667.
Feeding device. J. J. Doidge. No. 1,012,999; Dec. 26; Sp. p. 5810; Gaz. vol. 173; p. 1016.
Feeding device, Automatic. J. J. McGuigan. No. 983,919; Feb. 14; Sp. p. 1456; Gaz. vol. 163; p. 257.
Feeding device for solid materials, Intermittently-acting. G. von Post. No. 999,866; Aug. 8; Sp. p. 1337; Gaz. vol. 169; p. 258
Feeding live stock, Time-operated apparatus for. W. N. Greene. No. 998,502; July 18; Sp. p. 4128; Gaz. vol. 168; p. 732.
Feeding machine, Horse-. J. B. Johns. No. 995,253; June 13; Sp. p. 2493; Gaz. vol. 167; p. 432.

Alphabetical list of inventions—Continued.

Feeding mechanism. G. L. Hoyt. No. 998,902; July 25; Sp. p. 5041; Gaz. vol. 168; p. 905.
Feeding mechanism. J. J. Sullivan. No. 1,001,230; Aug. 22; Sp. p. 4367; Gaz. vol. 169; p. 795.
Feeding mechanism. J. J. Sullivan. No. 1,001,231; Aug. 22; Sp. p. 4376; Gaz. vol. 169; p. 796.
Feeding trough, Cattle-. W. A. McCollough. No. 998,973; July 25; Sp. p. 5221; Gaz. vol. 168; p. 930.
Feeding water to boilers, Means for. J. Thompson. No. 996,812; July 4; Sp. p. 431; Gaz. vol. 168; p. 72.
Feeding water to steam-boilers, Apparatus for. A. H. Barker. No. 998,068; July 18; Sp. p. 3183; Gaz. vol. 168; p. 578.
Feet, Adjustable elastic support for concave and flat. J. May. No. 989,171; Apr. 11; Sp. p. 1851; Gaz. vol. 165; p. 321.
Felly and tire holder, Vehicle. R. S. Weehunt. No. 981,507; Jan. 10; Sp. p. 3012; Gaz. vol. 162; p. 491.
Felt and other fabric or material, Means used in the manufacture or treatment of. L. H. Clegg. No. 999,750; Aug. 8; Sp. p. 1108; Gaz. vol. 169; p. 219
Fence: *See* Concrete fence.
Fence. F. R. Rogers. No. 1,013,064; Dec. 26; Sp. p. 5939; Gaz. vol. 173; p. 1039.
Fence anchor, Wire-. D. M. Burns and W. B. Shriver. No. 994,906; June 13; Sp. p. 1803; Gaz. vol. 167; p. 317.
Fence anchor, Wire-. J. Reinhart. No. 997,852; July 11; Sp. p. 2678; Gaz. vol. 168; p. 460.
Fence-clamp. J. A. Cocker. No. 995,525; June 20; Sp. p. 3117; Gaz. vol. 167; p. 554.
Fence clip, Wire-. F. H. Nullmeyer. No. 984,438; Feb. 14; Sp. p. 2546; Gaz. vol. 163; p. 431.
Fence-fabric machine. P., J., P. W., and J. W. Sommer. No. 1,004,704; Oct. 3; Sp. p. 325; Gaz. vol. 171; p. 56.
Fence fabric, Wire-. G. E. Mirfield. No. 982,185; Jan. 17; Sp. p. 4443; Gaz. vol. 162; p. 744.
Fence fabric, Wire-. H. P. Norris. No. 1,005,286; Oct. 10; Sp. p. 1558; Gaz. vol. 171; p. 281.
Fence fabric, Wire-. J. E. Fredrick. No. 1,012,347; Dec. 19; Sp. p. 4375; Gaz. vol. 173; p. 749.
Fence-gate. C. E. Townley. No. 989,082; Apr. 11; Sp. p. 1670; Gaz. vol. 165; p. 290.
Fence-line-wire spacer. W. C. Gambrel. No. 985,993; Mar. 7; Sp. p. 520; Gaz. vol. 164; p. 82.
Fence-machine. I. K. Hollinger. No. 990,653; Apr. 25; Sp. p. 5134; Gaz. vol. 165; p. 891.
Fence-machine. C. A. Willmarth. No. 993,488; May 30; Sp. p. 5702; Gaz. vol. 166; p. 1043.
Fence-machine. W. N. Parrish. No. 1,009,994; Nov. 28; Sp. p. 5183; Gaz. vol. 172; p. 932.
Fence machine, Wire-. W. N. Parrish. No. 984,021; Feb. 14; Sp. p. 1679; Gaz. vol. 163; p. 290.
Fence machine, Wire-. D. C. Smith. No. 989,199; Apr. 11; Sp. p. 1895; Gaz. vol. 165; p. 329.
Fence machine, Wire-. P. W., J. W., and W. Sommer. No. 999,411; Aug. 1; Sp. p. 429; Gaz. vol. 169; p. 76.
Fence machine, Wire-. T. M. Conner. No. 1,006,829; Oct. 24; Sp. p. 5011; Gaz. vol. 171; p. 886.
Fence machine, Wire-. W. J. Vail. No. 1,008,222; Nov. 7; Sp. p. 1242; Gaz. vol. 172; p. 202.
Fence machine, Wire-. W. M. Dillon and W. W. Lincoln. No. 1,010,734; Dec. 5; Sp. p. 743; Gaz. vol. 173; p. 117.
Fence-making machine, Wire-. J. M. Denning. No. 980,499; Jan. 3; Sp. p. 699; Gaz. vol. 162; p. 113.
Fence nail, Wire-. M. R. Findley. No. 987,709; Mar. 28; Sp. p. 4124; Gaz. vol. 164; p. 755.
Fence-post. R. S. Jones. No. 984,142; Feb. 14; Sp. p. 1922; Gaz. vol. 163; p. 330.
Fence-post. G. W. Connors. No. 985,661; Feb. 28; Sp. p. 5208; Gaz. vol. 163; p. 921.
Fence-post. W. J. Mettler. No. 987,251; Mar. 21; Sp. p. 3152; Gaz. vol. 164; p. 571.
Fence-post. J. W. Meyer. No. 987,639; Mar. 21; Sp. p. 3943; Gaz. vol. 164; p. 702.
Fence-post. D. Smith. No. 989,436; Apr. 11; Sp. p. 2424; Gaz vol. 165; p. 409.
Fence-post. B. Kennedy. No. 989,849; Apr. 18; Sp. p. 3348; Gaz. vol. 165; p. 584.
Fence-post. J Hicks. No. 990,873; May 2; Sp. p. 103; Gaz. vol. 166; p. 19.
Fence-post. L. A. Weaver. No. 994,809; June 13; Sp. p. 1552; Gaz. vol. 167; p. 284.
Fence-post. G. W. Connors. No. 996,316; June 27; Sp. p. 4887; Gaz. vol. 167; p. 862.
Fence-post. H. J. Fritz. No. 997,053; July 4; Sp. p. 981; Gaz. vol. 168; p. 157.
Fence-post. J. B. Skiff and C. J. Westphall. No. 997,710; July 11; Sp. p. 2315; Gaz. vol. 168; p. 411.
Fence-post. J. A. Johnson. No. 1,001,274; Aug. 22; Sp. p. 4459; Gaz. vol. 169; p. 810.
Fence-post. D. Garst. No. 1,002,256; Sept. 5; Sp. p. 156; Gaz. vol. 170; p. 20.
Fence-post. F. Upchurch. No. 1,004,112; Sept. 26; Sp. p. 4272; Gaz. vol. 170; p. 761.
Fence-post. W. W. Beebe. No. 1,004,969; Oct. 3; Sp. p. 894; Gaz. vol. 171; p. 147.
Fence-post. J. E. Hussey. No. 1,005,040; Oct. 3; Sp. p. 1030; Gaz. vol. 171; p. 172.
Fence-post. F. M. Reed. No. 1,010,521; Dec. 5; Sp. p. 275; Gaz. vol. 173; p. 43.
Fence-post. J. C. Calhoun. No. 1,011,914; Dec. 19; Sp. p. 3416; Gaz. vol. 173; p. 598.
Fence-post. L. Bonnell. No. 1,012,238; Dec. 19; Sp. p. 4148; Gaz. vol. 173; p. 712.
Fence-post. W. W. Large and R. H. Tapper. No. 1,013,026; Dec. 26; Sp. p. 5866; Gaz. vol. 173; p. 1026.
Fence-post and fence-wire fastener. H. Peterson. No. 987,485; Mar. 21; Sp. p. 3647; Gaz. vol. 164; p. 650.
Fence-post and wire-fastener. E. M. Buechele. No. 1,000,774; Aug. 15; Sp. p. 3378; Gaz. vol. 169; p. 607.
Fence-post brace. H. F. von Engeln. No. 991,913; May 9; Sp. p. 2313; Gaz. vol. 166; p. 412.
Fence-post brace. J. Heyerly. No. 999,786; Aug. 8; Sp. p. 1174; Gaz. vol. 169; p. 231.
Fence-post brace. G. Schneider. No. 1,003,520; Sept. 19; Sp. p. 2891; Gaz. vol. 170; p. 529.
Fence-post clamp. D. Carswell. No. 996,211; June 27; Sp. p. 4639; Gaz. vol. 167; p. 828.
Fence-post, Concrete. J. Huber. No. 980,955; Jan. 10; Sp. p. 1722; Gaz. vol. 162; p. 297.
Fence-post construction. T. W. Schaefer. No. 1,003,660; Sept. 19; Sp. p. 3211; Gaz. vol. 170; p. 578.
Fence-post foundation. M. J. Gregory. No. 994,742; June 13; Sp. p. 1411; Gaz. vol. 167; p. 262.
Fence-post, Metallic. E. C. Kahn. No. 999,229; Aug. 1; Sp. p. 72; Gaz. vol. 169; p. 14.
Fence-post, Metallic. C. Colvin. No. 1,011,749; Dec. 12; Sp. p. 3038; Gaz. vol. 173; p. 507.
Fence-post mold. W. L. Keller. No. 987,303; Mar. 21; Sp. p. 3274; Gaz. vol. 164; p. 588.
Fence-post mold. J. H. Graham. No. 988,460; Apr. 4; Sp. p. 359; Gaz. vol. 165; p. 59.
Fence-post mold. F. Ryder. No. 996,282; June 27; Sp. p. 4799; Gaz. vol. 167; p. 851.
Fence-post, Portable. C. G. Welsz. No. 1,008,227; Nov. 7; Sp. p. 1254; Gaz. vol. 172; p. 205.
Fence, Snow-. J. Rupp. No. 1,006,796; Oct. 24; Sp. p. 4931; Gaz. vol. 171; p. 873.
Fence stretcher, Wire-. J. B. Bankson. No. 988,065; Mar. 28; Sp. p. 4941; Gaz. vol. 164; p. 877.
Fence stretcher, Wire-. J. McInteer. No. 1,010,441; Dec. 5; Sp. p. 74; Gaz. vol. 173; p. 15.
Fence structure. D. A. Goodrich. No. 1,012,626; Dec. 26; Sp. p. 4945; Gaz. vol. 173; p. 889.
Fence-tie. G. H. Cock. No. 986,545; Mar. 14; Sp. p. 1678; Gaz. vol. 164; p. 297.
Fence-tightening post. N. F. Howard. No. 987,365; Mar. 21; Sp. p. 3392; Gaz. vol. 164; p. 608.
Fence, Wire. T. E. Andrews, Jr. No. 1,003,312; Sept. 12; Sp. p. 2471; Gaz. vol. 170; p. 426.
Fender: *See* Automatic fender; Automobile-fender; Automobile automatic fender; Automobile safety-fender; Car-fender; Car or other fender; Cultivator-fender; Disk fender; Elevator-fender; Metallic fender; Plow-fender; Vehicle-fender; Vessel-fender; Wheel-fender.
Fender. J. A. Boughton. No. 983,476; Feb. 7; Sp. p. 472; Gaz. vol. 163; p. 75.
Fender. O. A. Ross. No. 995,371; June 13; Sp. p. 2772; Gaz. vol. 167; p. 472.
Fender. E. B. Stafford. No. 1,002,187; Aug. 29; Sp. p. 6344; Gaz. vol. 169; p. 1147.
Ferric articles, Combining a permeating metallic protective with the surfaces of. H. J. Lohmann. No. 990,443; Apr. 25; Sp. p. 4669; Gaz. vol. 165; p. 821.
Ferro-ferric hydrate, Blackening browned. J. T. Carrick. No. 984,075; Feb. 14; Sp. p. 1798; Gaz. vol. 163; p. 309.
Ferroboron, Producing. C. A. Hansen. No. 982,135; Jan. 17; Sp. p. 4357; Gaz. vol. 162; p. 728.
Ferrochromium, Effecting reduction and producing. E. F. Price. No. 995,481; June 20; Sp. p. 3024; Gaz. vol. 167; p. 538.
Ferrule. E. Glennan. No. 986,164; Mar. 7; Sp. p. 849; Gaz. vol. 164; p. 137.
Ferrule-closing mechanism. G. W. Benton. No. 998,455; July 18; Sp. p. 4028; Gaz. vol. 168; p. 715.
Ferrules, Tool for withdrawing and inserting screwed. E. C. and J. Jenkins. No. 1,009,248; Nov. 21; Sp. p. 3625; Gaz. vol. 172; p. 632.
Ferry-landing machinery. A. T. Prescott. No. 986,312; Mar. 7; Sp. p. 1157; Gaz. vol. 164; p. 186.
Ferry-mooring device. G. W. Harney. No. 1,002,987; Sept. 12; Sp. p. 1795; Gaz. vol. 170; p. 311.
Ferry-slip. R. T. Stone. No. 982,643; Jan. 24; Sp. p. 5410; Gaz. vol. 162; p. 933.
Ferry-slip. R. T. Stone. No. 982,644; Jan. 24; Sp. p. 5412; Gaz. vol. 162; p. 934.
Ferry-slips, Protection for rackwork of. F. W. Bacon. No. 988,064; Mar. 28; Sp. p. 4939; Gaz. vol. 164; p. 877.
Fertilizer. A. A. Forbes. No. 1,012,251; Dec. 19; Sp. p. 4174; Gaz. vol. 173; p. 716.
Fertilizer, Ammonium-phosphate. N. Caro and T. E. Scheele. No. 1,001,350; Aug. 22; Sp. p. 4633; Gaz. vol. 169; p. 837.
Fertilizer and making same. S. Peacock. No. 988,894; Apr. 4; Sp. p. 1266; Gaz. vol. 165; p. 203.
Fertilizer and making same. S. B. Newberry and H. N. Barrett. No. 995,028; June 13; Sp. p. 2050; Gaz. vol. 167; p. 359.
Fertilizer, Dicalcium-phosphate. A. Bretteville. No. 1,011,909; Dec. 19; Sp. p. 3408; Gaz. vol. 173; p. 597.

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Fertilizer-distributer. M. A. Stubbs. No. 981,136; Jan. 10; Sp. p. 2195; Gaz. vol. 162; p. 361.
Fertilizer-distributer. J. H. Mathews. No. 986,840; Mar. 14; Sp. p. 2300; Gaz. vol. 164; p. 399.
Fertilizer-distributer. W. G. Gallaher. No. 989,498; Apr. 11; Sp. p. 2540; Gaz. vol. 165; p. 430.
Fertilizer-distributer. W. W. Beardsley. No. 993,815; May 30; Sp. p. 6429; Gaz. vol. 166; p. 1158.
Fertilizer-distributer. F. and R. Bruhn. No. 997,367; July 11; Sp. p. 1621; Gaz. vol. 168; p. 294.
Fertilizer-distributer. W. T. McDonald. No. 997,401; July 11; Sp. p. 1677; Gaz. vol. 168; p. 305.
Fertilizer-distributer. J. Blue. No. 999,295; Aug. 1; Sp. p. 194; Gaz. vol. 169; p. 36.
Fertilizer-distributer. L. H. Horton. No. 1,000,003; Aug. 8; Sp. p. 1626; Gaz. vol. 169; p. 306.
Fertilizer-distributer. E. M. Bickerstaff. No. 1,005,767; Oct. 10; Sp. p. 2612; Gaz. vol. 171; p. 450.
Fertilizer-distributer. H. Synck. No. 1,008,089; Nov. 7; Sp. p. 945; Gaz. vol. 172; p. 152.
Fertilizer-distributer. J. M. Sanders. No. 1,008,200; Nov. 7; Sp. p. 1180; Gaz. vol. 172; p. 194.
Fertilizer-distributer. W. M. Nickell. No. 1,009,684; Nov. 21; Sp. p. 4538; Gaz. vol. 172; p. 781.
Fertilizer-distributer. L. Mehlberger. No. 1,011,071; Dec. 5; Sp. p. 1462; Gaz. vol. 173; p. 232.
Fertilizer-distributer. L. B. Barth. No. 1,012,795; Dec. 26; Sp. p. 5328; Gaz. vol. 173; p. 948.
Fertilizer-distributer and planter. T. L. Carter. No. 1,004,365; Sept. 26; Sp. p. 4790; Gaz. vol. 170; p. 846.
Fertilizer-distributer and seed-dropper, Combined. I. A. Wesson. No. 991,574; May 9; Sp. p. 1608; Gaz. vol. 166; p. 296.
Fertilizer-distributer and seed-planter, Combined. A. C. Lindgren. No. 997,625; July 11; Sp. p. 2145; Gaz. vol. 168; p. 380.
Fertilizer-distributing apparatus. G. F. Erich. No. 1,005,525; Oct. 10; Sp. p. 2075; Gaz. vol. 171; p. 365.
Fertilizer, insecticide, and fungicide. W. F. K. Stock. No. 1,003,541; Sept. 19; Sp. p. 2938; Gaz. vol. 170; p. 537.
Fertilizer, Making. H. Colburn and S. G. Broadbent. No. 986,623; Mar. 14; Sp. p. 1834; Gaz. vol. 164; p. 325.
Fertilizer mixer and distributer. J. V. Carter. No. 999,297; Aug. 1; Sp. p. 200; Gaz. vol. 169; p. 37.
Fertilizer-mixing apparatus. E. U. Holton. No. 981,563; Jan. 10; Sp. p. 3122; Gaz. vol. 162; p. 509.
Fertilizer-spreader. F. H. Ryder. No. 1,007,493; Oct. 31; Sp. p. 6462; Gaz. vol. 171; p. 1170.
Fertilizers, Electrochemical production of phosphatic. G. Levi. No. 984,769; Feb. 21; Sp. p. 3308; Gaz. vol. 163; p. 583.
Fertilizers, Manufacture of. L. R. Coates. (Reissue.) No. 13,302; Oct. 31; Sp. p. 6834; Gaz. vol. 171; p. 1229.
Fertilizers, Manufacturing nitrate. E. Collett and M. Eckardt. No. 985,781; Mar. 7; Sp. p. 27; Gaz. vol. 164; p. 7.
Fertilizing scale-poison. W. R. Kleckner. No. 1,003,273; Sept. 12; Sp. p. 2396; Gaz. vol. 170; p. 412.
Fiber-cleaning apparatus. J. Hampson. No. 989,349; Apr. 11; Sp. p. 2244; Gaz. vol. 165; p. 380.
Fiber-cleaning apparatus. W. Youlten. No. 993,492; May 30; Sp. p. 5718; Gaz. vol. 166; p. 1045.
Fiber-cleaning machine. M. G. McLane. No. 984,689; Feb. 21; Sp. p. 3124; Gaz. vol. 163; p. 553.
Fiber-cleaning machine. B. S. Summers. No. 988,150; Mar. 28; Sp. p. 5099; Gaz. vol. 164; p. 904.
Fiber-cleaning machine. H. L. Vaughan. No. 998,054; July 18; Sp. p. 3145; Gaz. vol. 168; p. 572.
Fiber-cleaning machine. H. L. Vaughan. No. 1,001,481; Aug. 22; Sp. p. 4873; Gaz. vol. 169; p. 879.
Fiber composition and making the same. J. B. Hall. No. 1,000,598; Aug. 15; Sp. p. 2983; Gaz. vol. 169; p. 546.
Fiber-cutting machine. F. E. Keyes. No. 995,971; June 20; Sp. p. 4085; Gaz. vol. 167; p. 711.
Fiber-decorticating machine. O. Sheehan. No. 1,009,589; Nov. 21; Sp. p. 4366; Gaz. vol. 172; p. 752.
Fiber-dressing machinery. A. L. J. Tait. No. 986,244; Mar. 7; Sp. p. 1023; Gaz. vol. 164; p. 164.
Fiber-extracting apparatus. J. O. Drews. No. 998,331; July 18; Sp. p. 3789; Gaz. vol. 168; p. 674.
Fiber for commercial purposes, Preparing. B. S. Summers. No. 988,151; Mar. 28; Sp. p. 5103; Gaz. vol. 164; p. 905.
Fiber from cocoanuts, &c., Apparatus for removing. R. Marot. No. 983,631; Feb. 7; Sp. p. 803; Gaz. vol. 163; p. 128.
Fiber in flat form, Machine for manufacturing hard. G. W. Temple. No. 995,736; June 20; Sp. p. 3583; Gaz. vol. 167; p. 630.
Fiber material and producing same. V. Drewsen. No. 996,225; June 27; Sp. p. 4664; Gaz. vol. 167; p. 832.
Fiber-needle cutter. A. J. Bachand and W. D. Blossfield. No. 1,009,009; Nov. 14; Sp. p. 3082; Gaz. vol. 172; p. 512.
Fiber stalks for decortication and conversion into fiber, Apparatus for preparing unretted. C. Colahan. No. 994,124; June 6; Sp. p. 43; Gaz. vol. 167; p. 9.
Fiber with liquids, Apparatus for treating. J. F. White. No. 994,625; June 6; Sp. p. 1080; Gaz. vol. 167; p. 180.
Fiber-yielding materials, Apparatus for reducing. G. H. Marshall. No. 985,613; Feb. 28; Sp. p. 5120; Gaz. vol. 163; p. 905.
Fibers and rag-dusting machines, Machine for opening and cleaning. J. F. White. No. 1,001,487; Aug. 22; Sp. p. 4886; Gaz. vol. 169; p. 882.
Fibers and rag-dusting machines, Machine for opening and cleaning. J. F. White. No. 1,001,488; Aug. 22; Sp. p. 4887; Gaz. vol. 169; p. 882.
Fibers dyed with vat dyestuffs, Bucking or bleaching. F. C. Theis. No. 983,951; Feb. 14; Sp. p. 1521; Gaz. vol. 163; p. 267.
Fibers from cotton-hulls, Apparatus for detaching and separating. E. C. de Segundo. No. 980,349; Jan. 3; Sp. p. 335; Gaz. vol. 162; p. 61.
Fibers from flax, hemp, &c., Producing textile. G. Picard. No. 995,561; June 20; Sp. p. 3190; Gaz. vol. 167; p. 567.
Fibers, Obtaining textile. F. Kreisel and C. Seibert. No. 1,001,284; Aug. 22; Sp. p. 4477; Gaz. vol. 169; p. 813.
Fibers of kapok and other plants, Treating brittle vegetable. E. G. Stark. No. 1,006,142; Oct. 17; Sp. p. 3460; Gaz. vol. 171; p. 614.
Fibrous absorbent resilient material and making it. F. D. Lovell. No. 996,494; June 27; Sp. p. 5271; Gaz. vol. 167; p. 925.
Fibrous layers, Apparatus for finishing the surfaces of. E. T. Newsome. No. 1,002,302; Sept. 5; Sp. p. 263; Gaz. vol. 170; p. 36.
Fibrous material and apparatus therefor, Treatment of. T. J. Hutchinson. No. 1,003,606; Sept. 19; Sp. p. 3104; Gaz. vol. 170; p. 559.
Fibrous material, Embossed. F. W. Moore. No. 1,005,059; Oct. 3; Sp. p. 1058; Gaz. vol. 171; p. 177.
Fibrous material, Machine for treating. J. M. Worth. No. 1,010,006; Nov. 28; Sp. p. 5221; Gaz. vol. 172; p. 937.
Fibrous materials, Machine for treating. C. T. Drake. No. 986,624; Mar. 14; Sp. p. 1835; Gaz. vol. 164; p. 326.
Fibrous materials preparatory to spinning, Apparatus for condensing. B. Bohle. No. 996,557; June 27; Sp. p. 5390; Gaz. vol. 167; p. 943.
Fibrous materials, Treatment of. W. A. Dickinson. No. 998,237; July 18; Sp. p. 3557; Gaz. vol. 168; p. 638.
Fibrous or cellulose materials, Treating. J. H. Ketcheson. No. 987,629; Mar 21; Sp. p. 3916; Gaz. vol. 164; p. 697.
Fibrous plants into textile fiber and pulp, Converting. F. F. Strong. No. 1,005,354; Oct. 10; Sp. p. 1712; Gaz. vol. 171; p. 306.
Fibrous plants, Machine for treating. W. M. Stone. No. 991,557; May 9; Sp. p. 1572; Gaz. vol. 166; p. 291.
Fifth-wheel. W. B. Messink. No. 986,482; Mar. 14; Sp. p. 1545; Gaz. vol. 164; p. 276.
Fifth-wheel. W. J. Martin. No. 988,884; Apr. 4; Sp. p. 1251; Gaz. vol. 165; p. 200.
Fifth-wheel. F. E. Wilcox. No. 1,012,778; Dec. 26; Sp. p. 5290; Gaz. vol. 173; p. 942.
Fifth-wheel for motor-vehicles. D. N. Baxter. No. 1,007,262; Oct. 31; Sp. p. 5973; Gaz. vol. 171; p. 1090.
Fifth-wheel, Vehicle. S. Craig. No. 993,035; May 23; Sp. p. 4732; Gaz. vol. 166; p. 861.
Figure, Target-. L. Linkiewicz. No. 1,006,856; Oct. 24; Sp. p. 5075; Gaz. vol. 171; p. 894.
Figures, Base for cardboard. R. G. Fraser. No. 1,000,250; Aug. 8; Sp. p. 2188; Gaz. vol. 169; p. 389.
Figures of miniature house-theaters (puppet-shows) movable, Device for rendering stage-. W. Rutz. No. 1,003,807; Sept. 19; Sp. p. 3524; Gaz. vol. 170; p. 627.
Filament. W. D. Coolidge. No. 1,008,588; Nov. 14; Sp. p. 2179; Gaz. vol. 172; p. 372.
Filament for incandescent electric lamps, Metallic. K. Farkas. No. 986,558; Mar. 14; Sp. p. 1709; Gaz. vol. 164; p. 303.
Filament-mounting. E. S. Gardner. No. 1,001,382; Aug. 22; Sp. p. 4702; Gaz. vol. 169; p. 848.
Filament-mounting. E. S. Gardner. No. 1,001,630; Aug. 29; Sp. p. 5181; Gaz. vol. 169; p. 960.
Filament-mounting machine. W. R. Burrows. No. 989,549; Apr. 11; Sp. p. 2680; Gaz. vol. 165; p. 450.
Filament-support. H. Gilmore. No. 1,001,135; Aug. 22; Sp. p. 4189; Gaz. vol. 169; p. 766.
Filament-supporting stems, Machine for making. M. E. Pierson. No. 1,004,072; Sept. 26; Sp. p. 4173; Gaz. vol. 170; p. 747.
Filament-treating machine. J. W. Howell. No. 1,010,914; Dec. 5; Sp. p. 1143; Gaz. vol. 173; p. 180.
Filament, Variegated corn. H. D. Perky. No. 987,089; Mar. 14; Sp. p. 2773; Gaz. vol. 164; p. 480.
Filaments, Anchoring. H. Remané. No. 994,425; June 6; Sp. p. 675; Gaz. vol. 167; p. 115.
Filaments, films, and other cellulose products from cellulose solutions, Manufacture of. R. Hömberg. No. 983,139; Jan. 31; Sp. p. 6487; Gaz. vol. 162; p. 1128.
Filaments for incandescent electric lamps, Apparatus for making metallic. F. Blau. No. 985,502; Feb. 28; Sp. p. 4885; Gaz. vol. 163; p. 867.
Filaments for incandescent electric lamps, Metallic. K. Farkas. No. 1,008,806; Nov. 14; Sp. p. 2657; Gaz. vol. 172; p. 446.
Filaments for incandescent electric lamps, Metallic. K. Farkas. No. 1,008,807; Nov. 14; Sp. p. 2659; Gaz. vol. 172; p. 446.

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Filaments for incandescent lamps, Manufacture of. C. P. Steinmetz. No. 988,148; Mar. 28; Sp. p. 5096; Gaz. vol. 164; p. 904.
Filaments, Manufacture of electric. C. A. von Welsbach. No. 1,001,105; Aug. 22; Sp. p. 4130; Gaz. vol. 169; p. 756.
Filaments, Manufacture of lamp-. J. T. Marshall. No. 996,420; June 27; Sp. p. 5136; Gaz. vol. 167; p. 900.
Filaments, Method of and apparatus for the treatment of lamp-. W. G. Abbott, Jr. No. 1,011,396; Dec. 12; Sp. p. 2238; Gaz. vol. 173; p. 382.
Filaments, Production of tungsten. A. Lederer. No. 999,235; Aug. 1; Sp. p. 84; Gaz. vol. 169; p. 16.
Filaments with metallic current-supply wires, Connecting incandescent-lamp. L. Glaser. No. 988,329; Apr. 4; Sp. p. 83; Gaz. vol. 165; p. 15.
File. C. F. Adams. No. 1,006,820; Oct. 24; Sp. p. 4984; Gaz. vol. 171; p. 882.
File, Account-. H. C. Gross and I. D. Siegfried. No. 990,979; May 2; Sp. p. 320; Gaz. vol. 166; p. 55.
File, Account-. E. J. Vickers. No. 992,299; May 16; Sp. p. 3156; Gaz. vol. 166; p. 574.
File, Account-. W. Barr, Jr. No. 996,197; June 27; Sp. p. 4619; Gaz. vol. 167; p. 823.
File, Account-. W. Barr, Jr. No. 1,002,485; Sept. 5; Sp. p. 692; Gaz. vol. 170; p. 101.
File, Account-. W. Barr, Jr. No. 1,005,777; Oct. 10; Sp. p. 2633; Gaz. vol. 171; p. 454.
File and binder, Bill. A. W. Ullom. No. 989,210; Apr. 11; Sp. p. 1924; Gaz. vol. 165; p. 333.
File and transfer-binder, Invoice-. R. Greenhood. No. 994,312; June 6; Sp. p. 426; Gaz. vol. 167; p. 73.
File, Bill-. J. E. Benjamin. No. 987,944; Mar. 28; Sp. p. 4671; Gaz. vol. 164; p. 836.
File, Bill-. W. Molenaar. No. 1,005,451; Oct. 10; Sp. p. 1920; Gaz. vol. 171; p. 339.
File-binder. T. E. Heeter. No. 1,008,145; Nov. 7; Sp. p. 1062; Gaz. vol. 172; p. 173.
File-box. W. C. and A. L. Weis. No. 991,255; May 2; Sp. p. 912; Gaz. vol. 166; p 154.
File-cabinet. F. G. Lockwood. No. 988,199; Mar. 28; Sp. p. 5189; Gaz. vol. 164; p. 920.
File-cabinet, Rotary. W. J. Hayes and P. H. Deming. No. 1,004,784; Oct. 3; Sp. p. 508; Gaz. vol. 171; p. 84.
File, Card-index. W. T. Field. No. 980,234; Jan. 3; Sp. p. 110; Gaz. vol. 162; p. 22.
File-case, Account-book. C. W. Wynne. No. 987,210; Mar. 21; Sp. p. 3072; Gaz. vol. 164; p. 556.
File, Credit-account. J. H. Ringer. No. 997,328; July 11; Sp. p. 1545; Gaz. vol. 168; p. 281.
File, Document-. F. G. Fawkes. No. 986,154; Mar. 7; Sp. p. 825; Gaz. vol. 164; p. 134.
File, Document-. E. W. Bauer. No. 996,695; July 4; Sp. p. 198; Gaz. vol. 168; p. 34.
File for desks and safes, Document-. A. D. Bubb. No. 1,003,230; Sept. 12; Sp. p. 2308; Gaz. vol. 170; p. 396.
File for holding individual accounts, Loose-leaf. E. L. Mooney. No. 1,008,047; Nov. 7; Sp. p. 861; Gaz. vol. 172; p. 138.
File-handle. W. B. Wankel. No. 983,788; Feb. 7; Sp. p. 1133; Gaz. vol. 163; p. 181.
File indicator, Duplicate-sales-slip-. H. McCormick. No. 991,524; May 9; Sp. p. 1489; Gaz. vol. 166; p. 278.
File leaf or holder for sales-slips, &c. C. W. Zimmer and G. W. Benjamin. No. 983,106; Jan. 31; Sp. p. 6432; Gaz. vol. 162; p. 1118.
File, Letter and like. A. D. Klaber. No. 1,003,470; Sept. 19; Sp. p. 2794; Gaz. vol. 170; p. 511.
File-locking device, Clip-. H. K. Hobe. No. 1,012,202; Dec. 19; Sp. p. 4072; Gaz. vol. 173; p. 699.
File-machine, Automatic. H. and J. H. Besser. No. 1,001,609; Aug. 29; Sp. p. 5142; Gaz. vol. 169; p. 953.
File-making apparatus. J. Bêché. No. 1,000,888; Aug. 15; Sp. p. 3598; Gaz. vol. 169; p. 647.
File, Matrix-ear. G. E. Wallin. No. 982,554; Jan. 24; Sp. p. 5247; Gaz. vol. 162; p. 905.
File or transfer case. P. H. Yawman. No. 998,444; July 18; Sp. p. 4013; Gaz. vol. 168; p. 712.
File, Paper-. G. B. Staples. No. 999,900; Aug. 8; Sp. p. 1421; Gaz. vol. 169; p. 270.
File, Prescription-. S. G. Eghan. No. 987,122; Mar. 21; Sp. p. 2838; Gaz. vol. 164; p. 523.
File, Prescription-. J. D. Mulloy. No. 991,348; May 2; Sp. p. 1119; Gaz. vol. 166; p. 187.
File, rasp, or similar tool. E. Armstrong. No. 995,761; June 20; Sp. p. 3652; Gaz. vol. 167; p. 632.
File, Rotary. G. E. Metcalf. No. 992,437; May 16; Sp. p. 3461; Gaz. vol. 166; p. 623.
File-shelf. F. Fauth. No. 999,974; Aug. 8; Sp. p. 1565; Gaz. vol. 169; p. 295.
File, Slip-. H. B. White. No. 983,964; Feb. 14; Sp. p. 1542; Gaz. vol. 163; p. 271.
File, temporary binder, loose-leaf book, and the like. J. Walker, Jr. No. 1,000,649; Aug. 15; Sp. p. 3104; Gaz. vol. 169; p. 563.
File-wrapper. B. S. Blaine. No. 994,241; June 6; Sp. p. 294; Gaz. vol. 167; p. 50.
Files, Cutting. J. Neill. No. 998,380; July 18; Sp. p. 3896; Gaz. vol. 168; p. 691.
Filing and cutting metals and other materials, Machine for. G. Habig. No. 996,329; June 27; Sp. p. 4923; Gaz. vol. 167; p. 867.
Filing and indexing appliance. W. B. Hargrave. No. 999,991; Aug. 8; Sp. p. 1596; Gaz. vol. 169; p. 301.
Filing appliance. H. J. Hick. No. 1,006,552; Oct. 24; Sp. p. 4424; Gaz. vol. 171; p. 789.
Filing-cabinet. L. S. Weaver and W. F. Altenbaugh. No. 981,959; Jan. 17; Sp. p. 4014; Gaz. vol. 162; p. 669.
Filing-cabinet. W. L. Dunham. No. 982,767; Jan. 24; Sp. p. 5681; Gaz. vol. 162; p. 974.
Filing-cabinet. C. M. Harris. No. 987,625; Mar. 21; Sp. p. 3907; Gaz. vol. 164; p. 696.
Filing-cabinet. G. Jacobs. No. 994,749; June 13; Sp. p. 1428; Gaz. vol. 167; p. 264.
Filing-cabinets, Drawer or unit for. W. T. Chedester. No. 1,011,743; Dec. 12; Sp. p. 3027; Gaz. vol. 173; p. 505.
Filing-case. W. K. Holman. No. 982,062; Jan. 17; Sp. p. 4221; Gaz. vol. 162; p. 703.
Filing-case. C. P. Zoerb. No. 1,005,403; Oct. 10; Sp. p. 1812; Gaz. vol. 171; p. 323.
Filing-case, Adjustable. H. H. Sellers. No. 987,018; Mar. 14; Sp. p. 2646; Gaz. vol. 164; p. 457.
Filing-case and record. L. E. Hart. No. 986,000; Mar. 7; Sp. p. 537; Gaz. vol. 164; p. 85.
Filing-cases and similar structures, Drawer for. W. E. Jones and C. Carothers. No. 1,002,520; Sept. 5; Sp. p. 759; Gaz. vol. 170; p. 111.
Filing device. E. R. Probert and C. E. Stuart. No. 993,406; May 30; Sp. p. 5519; Gaz. vol. 166; p. 1016.
Filing device. P. MacGregor. No. 1,002,290; Sept. 5; Sp. p. 238; Gaz. vol. 170; p. 32.
Filing device. E. R. Probert and C. E. Stuart. No. 1,010,453; Dec. 5; Sp. p. 97; Gaz. vol. 173; p. 20.
Filing device, Document-. R. H. Whitehead. No. 1,004,123; Sept. 26; Sp. p. 4301; Gaz. vol. 170; p. 765.
Filing device for sheet-music. T. H. Perfield. No. 1,001,680; Aug. 29; Sp. p. 5299; Gaz. vol. 169; p. 979.
Filing devices, Follower-block for paper-. A. T. Weiss and P. H. Yawman. No. 983,961; Feb. 14; Sp. p. 1536; Gaz. vol. 163; p. 270.
Filing-drawer. C. E. Flanders. No. 982,262; Jan. 24; Sp. p. 4615; Gaz. vol. 162; p. 801.
Filing-folder. D. A. and W. G. Howell. No. 984,482; Feb. 14; Sp. p. 2635; Gaz. vol. 163; p. 445.
Filing-machine. E. C. Brull. No. 982,791; Jan. 31; Sp. p. 5738; Gaz. vol. 162; p. 1012.
Filing-machine. P. Barry. No. 991,414; May 2; Sp. p. 1253; Gaz. vol. 166; p. 209.
Filing-machine attachment. C. D. Terrell. No. 1,002,010; Aug. 29; Sp. p. 6022; Gaz. vol. 169; p. 1090.
Filing or planing tool. E. Vernaz. No. 991,566; May 9; Sp. p. 1591; Gaz. vol. 166; p. 293.
Filing system. E. A. Dunn. No. 982,662; Jan. 24; Sp. p. 5451; Gaz. vol. 162; p. 940.
Filing system. E. A. Dunn. No. 982,708; Jan. 24; Sp. p. 5548; Gaz. vol. 162; p. 955.
Filing system. E. A. Dunn. No. 1,002,237; Sept. 5; Sp. p. 105; Gaz. vol. 170; p. 12.
Fillet-cutter. J. O. Schmitt. No. 986,507; Mar. 14; Sp. p. 1597; Gaz. vol. 164; p. 284.
Filling and dumping device. J. W. Martin and J. A. Wallace. No. 995,546; June 20; Sp. p. 3156; Gaz. vol. 167; p. 562.
Filling and weighing apparatus. H. F. Broadhurst. No. 1,007,915; Nov. 7; Sp. p. 614; Gaz. vol. 172; p. 94.
Filling device. F. Wendling. No. 987,518; Mar. 21; Sp. p. 3700; Gaz. vol. 164; p. 661.
Filling-machine. H. M. Smith. No. 980,445; Jan. 3; Sp. p. 565; Gaz. vol. 162; p. 94.
Filling-machine. H. M. Smith. No. 980,446; Jan. 3; Sp. p. 567; Gaz. vol. 162; p. 94.
Filling-machine. F. C. H. Strasburger. (Reissue.) No. 13,197; Jan. 17; Sp. p. 4537; Gaz. vol. 162; p. 760.
Filling-machine. C. F. Colbert. No. 983,351; Feb. 7; Sp. p. 194; Gaz. vol. 163; p. 35.
Filling-machine. F. C. H. Strasburger. No. 991,664; May 9; Sp. p. 1811; Gaz. vol. 166; p. 329.
Filling-machine. F. J. Englen. No. 993,230; May 23; Sp. p. 5129; Gaz. vol. 166; p. 924.
Filling-machine. A. Lealand. No. 1,005,984; Oct. 17; Sp. p. 3107; Gaz. vol. 171; p. 558.
Filling-machine. W. M. Fowler. No. 1,011,768; Dec. 12; Sp. p. 3070; Gaz. vol. 173; p. 514.
Film-actuating mechanism. C. R. Uebelmesser. No. 994,042; May 30; Sp. p. 6867; Gaz. vol. 166; p. 1233.
Film developing, fixing, and washing apparatus. F. F. Nyč. No. 1,000,287; Aug. 8; Sp. p. 2274; Gaz. vol. 169; p. 402.
Film-developing tank. H. E. Seeley. No. 1,012,723; Dec. 26; Sp. p. 5158; Gaz. vol. 173; p. 924.
Film-feed device. C. C. Spinks. No. 1,007,012; Oct. 24; Sp. p. 5403; Gaz. vol. 171; p. 947.
Film-feeding mechanism. M. Klaiber. No. 988,473; Apr. 4; Sp. p. 391; Gaz. vol. 165; p. 63.
Film-holder. C. W. Judd. No. 998,182; July 18; Sp. p. 3426; Gaz. vol. 168; p. 618.
Film-holder for Roentgen-ray skiagraphs, Mouth. A. H. Ketcham. No. 1,012,561; Dec. 19; Sp. p. 4788; Gaz. vol. 173; p. 822.

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Film-magazine. W. N. Selig. No. 999,679; Aug. 1; Sp. p. 950; Gaz. vol. 169; p. 166.
Film or leaf, Gilding. K. E. Olson. No. 992,743; May 16; Sp. p. 4085; Gaz. vol. 166; p. 729.
Film-pack. J. G. Schneider. No. 1,009,794; Nov. 28; Sp. p. 4786; Gaz. vol. 172; p. 867.
Film-pack adapter. H. M. R. Glover. No. 987,620; Mar. 21; Sp. p. 3896; Gaz. vol. 164; p. 694.
Film-pack and adapter therefor. J. Schmuck. No. 986,420; Mar. 7; Sp. p. 1393; Gaz. vol. 164; p. 225.
Film-reel transportation-box. H. D. Leith and M. A. Cox. No. 1,002,285; Sept. 6; Sp. p. 228; Gaz. vol. 170; p. 30.
Film-rewinder. P. L. Blasser. No. 993,337; May 30; Sp. p. 5373; Gaz. vol. 166; p. 993.
Film-splicing device. G. L. Kline. No. 1,007,034; Oct. 24; Sp. p. 5443; Gaz. vol. 171; p. 954.
Film-spool. H. L. Hill. No. 988,341; Apr. 4; Sp. p. 104; Gaz. vol. 165; p. 19.
Films and the like, Apparatus for suspending. E. A. Ivatts. No. 1,001,957; Aug. 29; Sp. p. 5922; Gaz. vol. 169; p. 1073.
Films, Apparatus for the continuous manufacture of cellulose. E. Brandenberger. No. 991,267; May 2; Sp. p. 944; Gaz. vol. 166; p. 159.
Films, Forming dielectric. R. D. Mershon. No. 1,012,889; Dec. 26; Sp. p. 5551; Gaz. vol. 173; p. 979.
Films, Manufacture of cellulosic. E. Brandenberger. No. 1,002,634; Sept. 5; Sp. p. 1014; Gaz. vol. 170; p. 151.
Filter. S. Biren. No. 980,748; Jan. 3; Sp. p. 1216; Gaz. vol. 162; p. 195.
Filter. M. G. Melvin. No. 981,582; Jan. 10; Sp. p. 3165; Gaz. vol. 162; p. 516.
Filter. E. M. Knight. No. 983,625; Feb. 7; Sp. p. 792; Gaz. vol. 163; p. 126.
Filter. J. Bixler. No. 988,854; Apr. 4; Sp. p. 1192; Gaz. vol. 165; p. 190.
Filter. A. Uhde. No. 989,086; Apr. 11; Sp. p. 1677; Gaz. vol. 165; p. 295.
Filter. J. Kuhajda. No. 991,215; May 2; Sp. p. 829; Gaz. vol. 166; p. 141.
Filter. K. Kiefer. No. 993,780; May 30; Sp. p. 6352; Gaz. vol. 166; p. 1105.
Filter. E. Montrose. No. 994,864; June 13; Sp. p. 1697; Gaz. vol. 167; p. 303.
Filter. G. Moore. No. 1,007,592; Oct. 31; Sp. p. 6684; Gaz. vol. 171; p. 1204.
Filter. F. W. Mangelsdorff. No. 1,011,130; Dec. 5; Sp. p. 1609; Gaz. vol. 173; p. 254.
Filter, Air-. S. P. Weisenstein. No. 991,572; May 9; Sp. p. 1605; Gaz. vol. 166; p. 296.
Filter, Air-. H. Torchiani. No. 1,001,094; Aug. 22; Sp. p. 4105; Gaz. vol. 169; p. 752.
Filter, Air-. H. Winkler. No. 1,002,618; Sept. 5; Sp. p. 987; Gaz. vol. 170; p. 146.
Filter and dispenser, Liquid. A. Kenney. No. 986,720; Mar. 14; Sp. p. 2042; Gaz. vol. 164; p. 357.
Filter and the like, Sand. A. Tixier. No. 989,665; Apr. 18; Sp. p. 2944; Gaz. vol. 165; p. 519.
Filter, Automatic household-. J. Rarick. No. 984,704; Feb. 21; Sp. p. 3161; Gaz. vol. 163; p. 559.
Filter, Automatic household-. J. Rarick. No. 984,705; Feb. 21; Sp. p. 3163; Gaz. vol. 163; p. 560.
Filter-beds and the like, Automatic or power-driven distributer for. F. G. S. Ham. No. 997,058; July 4; Sp. p. 990; Gaz. vol. 168; p. 158.
Filter cleaning apparatus, Air or gas. P. Kestner. No. 996,860; July 4; Sp. p. 540; Gaz. vol. 168; p. 89.
Filter, Cleansing-. A. J. Madden. No. 992,512; May 16; Sp. p. 3614; Gaz. vol. 166; p. 649.
Filter container, Pressure-. C. W. Merrill. No. 987,904; Mar. 28; Sp. p. 4560; Gaz. vol. 164; p. 821.
Filter, Continuous. A. P. Stitzel. No. 981,031; Jan. 10; Sp. p. 1967; Gaz. vol. 162; p. 324.
Filter, Continuous. B. W. Traylor. No. 1,000,856; Aug. 15; Sp. p. 3531; Gaz. vol. 169; p. 635.
Filter-controller. F. B. Leopold. No. 992,888; May 23; Sp. p. 4413; Gaz. vol. 166; p. 810.
Filter element. K. Kiefer. No. 1,002,587; Sept. 5; Sp. p. 905; Gaz. vol. 170; p. 134.
Filter, Faucet-. M. Harloe. No. 989,965; Apr. 18; Sp. p. 3594; Gaz. vol. 165; p. 623.
Filter, Gum-. C. O. Erikson. No. 984,364; Feb. 14; Sp. p. 2403; Gaz. vol. 163; p. 407.
Filter, High-pressure. A. Dondey and J. C. Testro. No. 999,759; Aug. 8; Sp. p. 1123; Gaz. vol. 169; p. 222.
Filter, Impact-. T. H. Neikirk. No. 1,000,540; Aug. 15; Sp. p. 2837; Gaz. vol. 169; p. 522.
Filter, Juice-. W. J. Dyer. No. 1,005,944; Oct. 17; Sp. p. 3029; Gaz. vol. 171; p. 545.
Filter, Oil-. F. E. Collins. No. 1,001,929; Aug. 29; Sp. p. 5855; Gaz. vol. 169; p. 1064.
Filter, Oil-. H. E. Haller. No. 1,010,622; Dec. 5; Sp. p. 501; Gaz. vol. 173; p. 78.
Filter-plate. J. M. Lithgow and J. S. Sherwood. No. 1,011,976; Dec. 19; Sp. p. 3554; Gaz. vol. 173; p. 621.
Filter, Pocket-. H. H. Dyer. No. 1,000,332; Aug. 8; Sp. p. 2351; Gaz. vol. 169; p. 416.
Filter-press. A. M. Gray. No. 989,843; Apr. 18; Sp. p. 3337; Gaz. vol. 165; p. 582.
Filter-press, Centrifugal. F. K. and E. F. Atkins. No. 980,859; Jan. 3; Sp. p. 1450; Gaz. vol. 162; p. 233.
Filter, Pressure-. E. J. Sweetland. No. 996,537; June 27; Sp. p. 5358; Gaz. vol. 167; p. 938.
Filter, Rain-water. L. W. French. No. 986,161; Mar. 7; Sp. p. 844; Gaz. vol. 164; p. 136.
Filter, Slime-. E. H. Lutz and E. J. Sheda. No. 983,735; Feb. 7; Sp. p. 1022; Gaz. vol. 163; p. 163.
Filter-trough. F. B. Leopold. No. 983,298; Feb. 7; Sp. p. 84; Gaz. vol. 163; p. 16.
Filter, Varnish-. C. J. Healy. No. 1,000,405; Aug. 15; Sp. p. 2542; Gaz. vol. 169; p. 474.
Filter, Water-. J. Kneen. No. 986,998; Mar. 14; Sp. p. 2610; Gaz. vol. 164; p. 451.
Filter, Water-. J. F. Stocking. No. 1,001,784; Aug. 29; Sp. p. 5523; Gaz. vol. 169; p. 1014.
Filtering and heating device, Combined. O. F. Gambati. No. 984,552; Feb. 21; Sp. p. 2833; Gaz. vol. 163; p. 505.
Filtering apparatus. G. Johnston. No. 988,107; Mar. 28; Sp. p. 5026; Gaz. vol. 164; p. 891.
Filtering apparatus. A. McDonald and A. Brown-Durie. No. 1,006,253; Oct. 17; Sp. p. 3723; Gaz. vol. 171; p. 654.
Filtering apparatus. M. Deacon and W. Gore. No. 1,007,929; Nov. 7; Sp. p. 639; Gaz. vol. 172; p. 99.
Filtering apparatus, Rotary. A. J. Arbuckle. No. 994,235; June 6; Sp. p. 276; Gaz. vol. 167; p. 47.
Filtering device. W. J. Smart. No. 999,895; Aug. 8; Sp. p. 1413; Gaz. vol. 169; p. 269.
Filtering-machine. W. M. Barker. No. 1,012,794; Dec. 26; Sp. p. 5326; Gaz. vol. 173; p. 948.
Filtering material. K. Kiefer. No. 981,658; Jan. 17; Sp. p. 3313; Gaz. vol. 162; p. 563.
Filtering sugar-cane juices, Apparatus for. E. Montecino. No. 980,815; Jan. 3; Sp. p. 1360; Gaz. vol. 162; p. 218.
Filtering water, sewage, and the like, Apparatus for. H. Shillington. No. 988,391; Apr. 4; Sp. p. 225; Gaz. vol. 165; p. 36.
Fin-forming machine. J. D. Beebe. No. 1,000,144; Aug. 8; Sp. p. 1965; Gaz. vol. 169; p. 354.
Finger-guide for stringed instruments. L. G. Garrett. No. 992,765; May 23; Sp. p. 4136; Gaz. vol. 166; p. 766.
Finger-ring. A. Grabhorn. No. 1,012,542; Dec. 19; Sp. p. 4745; Gaz. vol. 173; p. 815.
Finger-tip protector. W. H. Aspegrén. No. 995,108; June 13; Sp. p. 2215; Gaz. vol. 167; p. 385.
Finish-remover. C. Ellis. No. 983,884; Feb. 14; Sp. p. 1369; Gaz. vol. 163; p. 246.
Finish-remover. C. Ellis. No. 985,406; Feb. 28; Sp. p. 4644; Gaz. vol. 163; p. 832.
Finish-remover. C. Ellis. No. 1,000,162; Aug. 8; Sp. p. 2005; Gaz. vol. 169; p. 359.
Finish-remover. C. Ellis. No. 1,000,388; Aug. 15; Sp. p. 2505; Gaz. vol. 169; p. 468.
Finish, Removing. J. M. Wilson. No. 986,531; Mar. 14; Sp. p. 1645; Gaz. vol. 164; p. 292.
Fire-alarm. F. D. Smenner. No. 981,020; Jan. 10; Sp. p. 1947; Gaz. vol. 162; p. 321.
Fire-alarm. S. J. Heinrich. No. 983,713; Feb. 7; Sp. p. 982; Gaz. vol. 163; p. 156.
Fire-alarm. J. E. Barrett. No. 989,107; Apr. 11; Sp. p. 1715; Gaz. vol. 165; p. 298.
Fire-alarm. L. T. Reichel. No. 989,420; Apr. 11; Sp. p. 2390; Gaz. vol. 165; p. 404.
Fire-alarm. F. Simonyi. No. 991,903; May 9; Sp. p. 2288; Gaz. vol. 166; p. 408.
Fire-alarm. H. G. Perkins and G. H. Elliott. No. 993,870; May 30; Sp. p. 6527; Gaz. vol. 166; p. 1176.
Fire-alarm. A. W. Comrack. No. 996,618; July 4; Sp. p. 51; Gaz. vol. 168; p. 10.
Fire-alarm. E. Reimann. No. 1,003,009; Sept. 12; Sp. p. 1835; Gaz. vol. 170; p. 318.
Fire-alarm. J. T. Bland. No. 1,009,638; Nov. 21; Sp. p. 4449; Gaz. vol. 172; p. 767.
Fire-alarm and animal-releasing device, Automatic. C. S. Cox. No. 1,006,914; Oct. 24; Sp. p. 5208; Gaz. vol. 171; p. 915.
Fire alarm and extinguisher. P. B. Barringer. No. 1,000,978; Aug. 22; Sp. p. 3810; Gaz. vol. 169; p. 710.
Fire-alarm and fire-extinguisher, Automatic. G. Palmieri and G. Cirillo. No. 1,010,681; Dec. 5; Sp. p. 618; Gaz. vol. 173; p. 98.
Fire-alarm apparatus. G. T. Moore. No. 998,197; July 18; Sp. p. 3452; Gaz. vol. 168; p. 622.
Fire-alarm, Automatic. E. F. Oliver. No. 983,396; Feb. 7; Sp. p. 299; Gaz. vol. 163; p. 50.
Fire-alarm, Automatic. J. W. Griffith. No. 986,279; Mar. 7; Sp. p. 1088; Gaz. vol. 164; p. 175.
Fire-alarm, Automatic. J. H. Bruhn, Jr. No. 986,355; Mar. 7; Sp. p. 1254; Gaz. vol. 164; p. 203.
Fire-alarm, Automatic. H. Becker. No. 992,477; May 16; Sp. p. 3552; Gaz. vol. 166; p. 637.
Fire-alarm, Automatic. W. P. Britain and G. J. Packman. No. 995,221; June 13; Sp. p. 2434; Gaz. vol. 167; p. 421.
Fire-alarm, Automatic. L. Myers. No. 1,003,196; Sept. 12; Sp. p. 2226; Gaz. vol. 170; p. 383.
Fire-alarm, Automatic. L. Robillot. No. 1,008,370; Nov. 14; Sp. p. 1643; Gaz. vol. 172; p. 293.
Fire-alarm, Automatic. G. E. Glick. No. 1,010,251; Nov. 28; Sp. p. 5705; Gaz. vol. 172; p. 1020.
Fire-alarm box. F. W. Cole. No. 1,008,955; Nov. 14; Sp. p. 2960; Gaz. vol. 172; p. 494.

Alphabetical list of inventions—Continued.

Fire-alarm-box-door keys, Guard for. A. Glock. No. 998,494; July 18; Sp. p. 4111; Gaz. vol. 168; p. 729.
Fire-alarm-box lock. A. Glock. No. 998,493; July 18; Sp. p. 4110; Gaz. vol. 168; p. 728.
Fire-alarm, Break-glass. C. Auth. No. 992,633; May 16; Sp. p. 3878; Gaz. vol. 166; p. 691.
Fire-alarm, Electric. A. C. Farley. No. 991,053; May 2; Sp. p. 463; Gaz. vol. 166; p. 80.
Fire-alarm, Electric. J. Cass. No. 1,003,173; Sept. 12; Sp. p. 2181; Gaz. vol. 170; p. 374.
Fire-alarm system. H. B. Bush. No. 988,171; Mar. 28; Sp. p. 5137; Gaz. vol. 164; p. 911.
Fire-alarm system. W. L. Denio. No. 1,008,960; Nov. 14; Sp. p. 2966; Gaz. vol. 172; p. 495.
Fire-alarm system. O. De Champ. No. 1,012,335; Dec. 19; Sp. p. 4353; Gaz. vol. 173; p. 746.
Fire-alarm system, Automatic. D. De Rosa. No. 1,010,351; Nov. 28; Sp. p. 5918; Gaz. vol. 172; p. 1053.
Fire-alarm system for telephone-exchanges. W. L. Denio. No. 1,008,313; Nov. 14; Sp. p. 1489; Gaz. vol. 172; p. 273.
Fire-alarm, Thermal electric. J. W. Mowbray. No. 994,026; May 30; Sp. p. 6840; Gaz. vol. 166; p. 1228.
Fire and burglar alarm, Combined. J. M. Walker. No. 1,006,608; Oct. 24; Sp. p. 4540; Gaz. vol. 171; p. 809.
Fire and water tube boiler, Combined. L. Haubentaller. No. 991,442; May 2; Sp. p. 1306; Gaz. vol. 166; p. 218.
Fire apparatus. B. B. Briggs. No. 986,352; Mar. 7; Sp. p. 1247; Gaz. vol. 164; p. 201.
Fire apparatus for elevators. J. E. Higgins. No. 994,514; June 6; Sp. p. 848; Gaz. vol. 167; p. 143.
Fire, Apparatus for life-saving in case of. F. Scherrer. No. 987,494; Mar. 21; Sp. p. 3661; Gaz. vol. 164; p. 653.
Fire apparatus, Rotary-pump casing for auto. A. C. Webb. No. 1,005,586; Oct. 10; Sp. p. 2250; Gaz. vol. 171; p. 387.
Fire-box. H. W. Jacobs and F. W. Shupert. No. 982,723; Jan. 24; Sp. p. 5576; Gaz. vol. 162; p. 960.
Fire-box. H. W. Jacobs and F. W. Shupert. No. 982,724; Jan. 24; Sp. p. 5580; Gaz. vol. 162; p. 960.
Fire-box. T. H. Garland. No. 997,988; July 18; Sp. p. 2997; Gaz. vol. 168; p. 548.
Fire-box construction, Brick-. W. C. Blackmond and G. E. Stoy. No. 1,003,392; Sept. 12; Sp. p. 2627; Gaz. vol. 170; p. 451.
Fire-bucket. P. Baar. No. 997,536; July 11; Sp. p. 1942; Gaz. vol. 168; p. 348.
Fire-cracker and choking material for the same. L. Nordlinger. No. 1,002,744; Sept. 5; Sp. p. 1262; Gaz. vol. 170; p. 189.
Fire-cracker making and finishing machine. L. and J. Schulman. (Reissue.) No. 13,230; Apr. 18; Sp. p. 4105; Gaz. vol. 165; p. 707.
Fire-curtain for windows. A. Shuman. No. 980,443; Jan. 3; Sp. p. 553; Gaz. vol. 162; p. 93.
Fire-damp indicator. F. H. Schröder and H. Becker. No. 989,929; Apr. 18; Sp. p. 3516; Gaz. vol. 165; p. 611.
Fire-detector, Automatic. R. Y. Hughes and L. J. Hoffmann. No. 982,822; Jan. 31; Sp. p. 5811; Gaz. vol. 162; p. 1022.
Fire-door. T. E. Collins. No. 984,799; Feb. 21; Sp. p. 3361; Gaz. vol. 163; p. 593.
Fire-door. T. E. Collins. No. 1,007,339; Oct. 31; Sp. p. 6129; Gaz. vol. 171; p. 1118.
Fire door and shutter. F. L. Saino, D. M. Lynch, W. F. Dunbar, and J. H. Weatherford. No. 982,303; Jan. 24; Sp. p. 4718; Gaz. vol. 162; p. 816.
Fire-door for elevators. E. O. Vandemar. No. 983,465; Feb. 7; Sp. p. 445; Gaz. vol. 163; p. 71.
Fire-engine, Automobile. J. L. Poultney. No. 1,004,816; Oct. 3; Sp. p. 574; Gaz. vol. 171; p. 94.
Fire-engine, Automobile. L. Fuchs. No. 1,007,551; Oct. 31; Sp. p. 6600; Gaz. vol. 171; p. 1190.
Fire-engine, Automobile. L. B. Lent. No. 1,010,158; Nov. 28; Sp. p. 5526; Gaz. vol. 172; p. 989.
Fire-engine, Chemical. H. M. Minnis. No. 984,231; Feb. 14; Sp. p. 2137; Gaz. vol. 163; p. 362.
Fire-escape. C. W. Schumann. No. 983,775; Feb. 7; Sp. p. 1109; Gaz. vol. 163; p. 178.
Fire-escape. D. Israel. No. 983,904; Feb. 14; Sp. p. 1422; Gaz. vol. 163; p. 251.
Fire-escape. A. H. Borden. No. 990,029; Apr. 18; Sp. p. 3727; Gaz. vol. 165; p. 645.
Fire-escape. W. C. Burge. No. 990,701; Apr. 25; Sp. p. 5257; Gaz. vol. 165; p. 907.
Fire-escape. P. Petersen. No. 990,770; Apr. 25; Sp. p. 5400; Gaz. vol. 165; p. 931.
Fire-escape. G. Busat. No. 991,768; May 9; Sp. p. 2008; Gaz. vol. 166; p. 361.
Fire-escape. D. J. Roche. No. 992,257; May 16; Sp. p. 3064; Gaz. vol. 166; p. 559.
Fire-escape. J. C. Covert. No. 993,350; May 30; Sp. p. 5397; Gaz. vol. 166; p. 997.
Fire-escape. W. Hartmann, Jr. No. 993,368; May 30; Sp. p. 5452; Gaz. vol. 166; p. 1004.
Fire-escape. H. Bellmann and H. Middendorf. No. 994,239; June 6; Sp. p. 290; Gaz. vol. 167; p. 50.
Fire-escape. T. E. Laroy. No. 994,760; June 13; Sp. p. 1455; Gaz. vol. 167; p. 268.
Fire-escape. H. C. Lansden. No. 995,159; June 13; Sp. p. 2325; Gaz. vol. 167; p. 402.
Fire-escape. M. Gilmore. No. 1,001,264; Aug. 22; Sp. p. 4432; Gaz. vol. 169; p. 806.
Fire-escape. W. I. Lake. No. 1,001,865; Aug. 29; Sp. p. 5697; Gaz. vol. 169; p. 1042.
Fire-escape. M. F. Gore. No. 1,002,146; Aug. 29; Sp. p. 6269; Gaz. vol. 169; p. 1133.
Fire-escape. C. V. Lindholm. No. 1,002,999; Sept. 12; Sp. p. 1819; Gaz. vol. 170; p. 314.
Fire-escape. D. Heath. No. 1,003,105; Sept. 12; Sp. p. 2038; Gaz. vol. 170; p. 351.
Fire-escape. J. R. Schwarz. No. 1,006,689; Oct. 24; Sp. p. 4693; Gaz. vol. 171; p. 835.
Fire-escape. W. J. Todd. No. 1,007,255; Oct. 31; Sp. p. 5961; Gaz. vol. 171; p. 1088.
Fire-escape. E. T. Warner. No. 1,010,544; Dec. 5; Sp. p. 313; Gaz. vol. 173; p. 50.
Fire-escape. H. A. and J. Weisfeld. No. 1,012,947; Dec. 26; Sp. p. 5700; Gaz. vol. 173; p. 1000.
Fire-escape ladder, Folding. I. Poss. No. 988,593; Apr. 4; Sp. p. 659; Gaz. vol. 165; p. 106.
Fire-escape, Portable. J. C. Pouliot. No. 992,902; May 23; Sp. p. 4445; Gaz. vol. 166; p. 815.
Fire-extinguisher. W. Schwarzhaupt. No. 988,598; Apr. 4; Sp. p. 666; Gaz. vol. 165; p. 107.
Fire-extinguisher. H. F. Sawtelle. No. 991,376; May 2; Sp. p. 1178; Gaz. vol. 166; p. 196.
Fire-extinguisher. W. S. Kellogg and C. E. Scott. No. 998,527; July 18; Sp. p. 4180; Gaz. vol. 168; p. 740.
Fire-extinguisher. T. J. Beetham. No. 1,004,971; Oct. 3; Sp. p. 898; Gaz. vol. 171; p. 148.
Fire-extinguisher. C. H. Driscoll. No. 1,009,490; Nov. 21; Sp. p. 4176; Gaz. vol. 172; p. 719.
Fire-extinguisher. J. W. Campbell. No. 1,012,595; Dec. 26; Sp. p. 4869; Gaz. vol. 173; p. 877.
Fire-extinguisher apparatus. H. M. McCaslin. No. 995,883; June 20; Sp. p. 3915; Gaz. vol. 167; p. 680.
Fire-extinguisher, Automatic. G. W. Bechtold. No. 992,741; May 16; Sp. p. 4078; Gaz. vol. 166; p. 729.
Fire-extinguisher, Automatic. A. E. Johnson. No. 993,071; May 23; Sp. p. 4816; Gaz. vol. 166; p. 874.
Fire-extinguisher, Automatic. P. Allen. No. 1,011,005; Dec. 5; Sp. p. 1326; Gaz. vol. 173; p. 211.
Fire-extinguisher, Automatic electrical. S. B. Priest. No. 1,012,913; Dec. 26; Sp. p. 5597; Gaz. vol. 173; p. 986.
Fire-extinguisher valve, Automatic. A. Blauvelt. No. 984,885; Feb. 21; Sp. p. 3515; Gaz. vol. 163; p. 622.
Fire-extinguisher valve, Automatic. J. T. O'Brien and W. G. Sargent. No. 1,012,269; Dec. 19; Sp. p. 4207; Gaz. vol. 173; p. 722.
Fire-extinguishers or the like, Automatic sprinkler for automatic. B. P. Hall. No. 1,010,045; Nov. 28; Sp. p. 5307; Gaz. vol. 172; p. 951.
Fire-extinguishing apparatus. H. M. McCaslin. No. 995,978; June 20; Sp. p. 4097; Gaz. vol. 167; p. 713.
Fire-extinguishing apparatus. O. E. Gordon. No. 1,002,387; Sept. 5; Sp. p. 484; Gaz. vol. 170; p. 68.
Fire-extinguishing apparatus. D. W. Adams. No. 1,003,853; Sept. 19; Sp. p. 3612; Gaz. vol. 170; p. 642.
Fire-extinguishing composition. W. S. Rheem, M. L. Chappell, and J. C. Black. No. 984,853; Feb. 21; Sp. p. 3458; Gaz. vol. 163; p. 611.
Fire-extinguishing compound. E. M. Davidson. No. 1,010,869; Dec. 5; Sp. p. 1052; Gaz. vol. 173; p. 164.
Fire-extinguishing stand-pipe system. C. Brent. No. 1,006,528; Oct. 24; Sp. p. 4345; Gaz. vol. 171; p. 779.
Fire-extinguishing system. I. Corneliussen. No. 983,606; Feb. 7; Sp. p. 760; Gaz. vol. 163; p. 119.
Fire-hose and analogous tubing. L. A. Subers. No. 1,011,090; Dec. 5; Sp. p. 1517; Gaz. vol. 173; p. 240.
Fire-hose coupling. J. C. Babst and H. H. Pierce. No. 999,946; Aug. 8; Sp. p. 1508; Gaz. vol. 169; p. 286.
Fire-hose lightener and signaling device. J. L. Drake. No. 1,002,972; Sept. 12; Sp. p. 1763; Gaz. vol. 170; p. 306.
Fire-hose reel. C. E. Mercer. No. 1,001,208; Aug. 22; Sp. p. 4333; Gaz. vol. 169; p. 789.
Fire-hydrant. W. W. Corey. No. 983,268; Feb. 7; Sp. p. 16; Gaz. vol. 163; p. 5.
Fire-hydrant. J. Knickerbacker. No. 990,989; May 2; Sp. p. 342; Gaz. vol. 166; p. 59.
Fire-hydrant. J. Knickerbacker. No. 990,990; May 2; Sp. p. 343; Gaz. vol. 166; p. 59.
Fire-hydrant. W. H. Symons. No. 991,559; May 9; Sp. p. 1575; Gaz. vol. 166; p. 291.
Fire-igniting device. G. Morge. No. 998,374; July 18; Sp. p. 3881; Gaz. vol. 168; p. 689.
Fire-kindler. A. Sendlein. No. 987,921; Mar. 28; Sp. p. 4601; Gaz. vol. 164; p. 828.
Fire-kindler. H. Hensel. No. 993,369; May 30; Sp. p. 5453; Gaz. vol. 166; p. 1004.
Fire-kindler. G. Poelloth. No. 996,277; June 27; Sp. p. 4789; Gaz. vol. 167; p. 849.
Fire-kindler. R. H. Umbenhaur. No. 1,003,550; Sept. 19; Sp. p. 2959; Gaz. vol. 170; p. 539.
Fire, Means for protecting concrete or other structures from. E. V. Johnson. No. 982,210; Jan. 17; Sp. p. 4493; Gaz. vol. 162; p. 754.
Fire-plug drain connection. J. B. Scott. No. 1,009,587; Nov. 21; Sp. p. 4363; Gaz. vol. 172; p. 751.
Fire-pot. R. Rouse, Jr. No. 986,864; Mar. 14; Sp. p. 2352; Gaz. vol. 164; p. 408.

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Fire-pot. R. Rouse, Jr. No. 1,006,503; Oct. 24; Sp. p. 4295; Gaz. vol. 171; p. 770.
Fire protecting and signaling apparatus. A. Busch. No. 987,669; Mar. 21; Sp. p. 4005; Gaz. vol. 164; p. 713.
Fire protection. F. W. Powers. No. 1,002,308; Sept. 5; Sp. p. 278; Gaz. vol. 170; p. 38.
Fire protection. D. J. Powers. No. 1,004,074; Sept. 26; Sp. p. 4180; Gaz. vol. 170; p. 748.
Fire-protection device. R. B. Hewitt and J. G. Nolen. No. 996,335; June 27; Sp. p. 4938; Gaz. vol. 167; p. 869.
Fire-protection signal system. J. G. Nolen and J. E. Shepherd. No. 998,588; July 18; Sp. p. 4312; Gaz. vol. 168; p. 762.
Fire-protector. R. C. Straight. No. 991,909; May 9; Sp. p. 2304; Gaz. vol. 166; p. 410.
Fire-protector for oil-tanks, Automatic. W. J. Donnell. No. 1,011,927; Dec. 19; Sp. p. 3444; Gaz. vol. 173; p. 603.
Fire-resisting shutter, Automatic. E. H. McCloud. No. 987,154; Mar. 21; Sp. p. 2929; Gaz. vol. 164; p. 535.
Fire-shield, Portable. D. W. Adams. No. 1,009,620; Nov. 21; Sp. p. 4419; Gaz. vol. 172; p. 761.
Fire-shutter controller. H. Krake. No. 980,536; Jan. 3; Sp. p. 785; Gaz. vol. 162; p. 125.
Fire-shutters, Automatic drop for. J. G. Wilson. No. 1,011,691; Dec. 12; Sp. p. 2920; Gaz. vol. 173; p. 488.
Fire-sprinkler, Automatic. A. I. Schall. No. 1,010,078; Nov. 28; Sp. p. 5374; Gaz. vol. 172; p. 963.
Fire-sprinkler systems and the like, Signal for. L. D. Chandler. No. 989,335; Apr. 11; Sp. p. 2215; Gaz. vol. 165; p. 376.
Fire-starting device, Coal-. C. E. Beehler. No. 984,791; Feb. 21; Sp. p. 3348; Gaz. vol. 163; p. 591.
Fires, Extinguishing. M. Breslauer. No. 990,521; Apr. 25; Sp. p. 4859; Gaz. vol. 165; p. 847.
Fires, Extinguishing. E. M. Davidson. No. 1,010,870; Dec. 5; Sp. p. 1054; Gaz. vol. 173; p. 164.
Fires in mines, Means for quenching and arresting. R. D. Cochrane. No. 1,000,236; Aug. 8; Sp. p. 2164; Gaz. vol. 169; p. 385.
Firing-machine, Time-controlled electric. H. L. and H. D. Bevans. No. 1,007,177; Oct. 31; Sp. p. 5795; Gaz. vol. 171; p. 1060.
Firearm. J. M. Browning. No. 984,519; Feb. 14; Sp. p. 2731; Gaz. vol. 163; p. 458.
Firearm. L. B. Taylor. No. 985,076; Feb. 21; Sp. p. 3884; Gaz. vol. 163; p. 686.
Firearm. A. Tomischka. No. 985,229; Feb. 28; Sp. p. 4276; Gaz. vol. 163; p. 774.
Firearm. J. O. Van Voorhis. No. 985,308; Feb. 28; Sp. p. 4448; Gaz. vol. 163; p. 800.
Firearm. E. H. Searle. No. 985,847; Mar. 7; Sp. p. 188; Gaz. vol. 164; p. 30.
Firearm. H. B. Febiger. No. 987,350; Mar. 21; Sp. p. 3360; Gaz. vol. 164; p. 603.
Firearm. T. Consentino. No. 987,672; Mar. 21; Sp. p. 4021; Gaz. vol. 164; p. 714.
Firearm. P. Mauser. No. 988,202; Mar. 28; Sp. p. 5193; Gaz. vol. 164; p. 921.
Firearm. R. Frommer. No. 989,242; Apr. 11; Sp. p. 2006; Gaz. vol. 165; p. 344.
Firearm. C. F. Lefever. No. 992,720; May 16; Sp. p. 4035; Gaz. vol. 166; p. 721.
Firearm. F. Unger and W. Corrigan. No. 993,129; May 23; Sp. p. 4939; Gaz. vol. 166; p. 894.
Firearm. J. E. Mason. No. 993,782; May 30; Sp. p. 6355; Gaz. vol. 166; p. 1146.
Firearm. F. I. Johnson. No. 996,252; June 27; Sp. p. 4724; Gaz. vol. 167; p. 840.
Firearm. F. K. Young. No. 998,867; July 25; Sp. p. 4962; Gaz. vol. 168; p. 892.
Firearm. F. I. Johnson. No. 1,004,172; Sept. 26; Sp. p. 4420; Gaz. vol. 170; p. 782.
Firearm. I. N. Lewis. No. 1,004,665; Oct. 3; Sp. p. 243; Gaz. vol. 171; p. 43.
Firearm. E. B. Leggett and T. W. Appleyard. No. 1,007,709; Nov. 7; Sp. p. 125; Gaz. vol. 172; p. 20.
Firearm. L. H. Cobb. No. 1,009,282; Nov. 21; Sp. p. 3708; Gaz. vol. 172; p. 645.
Firearm, Air-cooled automatic. I. N. Lewis. No. 1,004,666; Oct. 3; Sp. p. 246; Gaz. vol. 171; p. 43.
Firearm, Automatic. P. M. Menteyne and P. A. Degaille. No. 981,210; Jan. 10; Sp. p. 2346; Gaz. vol. 162; p. 387.
Firearm, Automatic. E. E. Redfield. No. 984,489; Feb. 14; Sp. p. 2651; Gaz. vol. 163; p. 447.
Firearm, Automatic. R. Frommer. No. 988,996; Apr. 11; Sp. p. 1489; Gaz. vol. 165; p. 261.
Firearm, Automatic. L. Schmeisser. No. 989,432; Apr. 11; Sp. p. 2418; Gaz. vol. 165; p. 408.
Firearm, Automatic. R. Frommer. No. 992,184; May 16; Sp. p. 2870; Gaz. vol. 166; p. 534.
Firearm, Automatic. L. H. Cobb. No. 992,854; May 23; Sp. p. 4336; Gaz. vol. 166; p. 798.
Firearm, Automatic. D. G. Hennick. No. 1,004,424; Sept. 26; Sp. p. 4913; Gaz. vol. 170; p. 866.
Firearm, Automatic. N. Björgum. No. 1,007,911; Nov. 7; Sp. p. 598; Gaz. vol. 172; p. 92.
Firearm, Automatic. G. Toborg. No. 1,008,498; Nov. 14; Sp. p. 1974; Gaz. vol. 172; p. 338.
Firearm, Automatic. C. R. S. J. Hallé. No. 1,010,899; Dec. 5; Sp. p. 1108; Gaz. vol. 173; p. 174.
Firearm breech-operating mechanism, Automatic-. L. Schmeisser. No. 1,002,764; Sept. 5; Sp. p. 1297; Gaz. vol. 170; p. 195.
Firearm cartridge-ejecting device. H. Borchardt. No. 1,009,464; Nov. 21; Sp. p. 4119; Gaz. vol. 172; p. 710.
Firearm cartridge-stop, Magazine-. J. D. Pedersen. (Reissue.) No. 13,321; Nov. 21; Sp. p. 4613; Gaz. vol. 172; p. 798.
Firearm-ejector. L. H. Cobb. No. 999,209; Aug. 1; Sp. p. 34; Gaz. vol. 169; p. 8.
Firearm lock mechanism. W. E. Post. No. 983,762; Feb. 7; Sp. p. 1082; Gaz. vol. 163; p. 173.
Firearm, Magazine-. C. West and E. Breuning. No. 1,011,541; Dec. 12; Sp. p. 2572; Gaz. vol. 173; p. 435.
Firearm, Recoil-operated. J. M. Browning. No. 984,263; Feb. 14; Sp. p. 2211; Gaz. vol. 163; p. 373.
Firearm, Repeating. E. E. Redfield. No. 984,490; Feb. 14; Sp. p. 2656; Gaz. vol. 163; p. 448.
Firearm, Repeating. J. H. Wheeler, G. A. Beck, and M. Hepburn. No. 997,642; July 11; Sp. p. 2182; Gaz. vol. 168; p. 387.
Firearm, Repeating. F. F. Knous. No. 998,347; July 18; Sp. p. 3824; Gaz. vol. 168; p. 679.
Firearm, Repeating. F. Arps. No. 998,738; July 25; Sp. p. 4679; Gaz. vol. 168; p. 847.
Firearm-sight. J. Windridge. No. 997,726; July 11; Sp. p. 2364; Gaz. vol. 168; p. 415.
Firearm-sight. F. C. Chadwick. No. 1,004,241; Sept. 26; Sp. p. 4559; Gaz. vol. 170; p. 806.
Firearm-sight. W. G. Hoffmann. No. 1,009,148; Nov. 21; Sp. p. 3369; Gaz. vol. 172; p. 596.
Firearm-sights, Hood for. W. O. French. No. 986,376; Mar. 7; Sp. p. 1300; Gaz. vol. 164; p. 210.
Firearm, Single-trigger. A. E. Lard. No. 1,011,972; Dec. 19; Sp. p. 3542; Gaz. vol. 173; p. 620.
Firearm, Stage-. J. E. Banner. No. 1,007,174; Oct. 31; Sp. p. 5789; Gaz. vol. 171; p. 1059.
Firearm-trigger. T. J. Cahill. No. 1,011,154; Dec. 12; Sp. p. 1692; Gaz. vol. 173; p. 298.
Firearm trigger device. R. Frommer. No. 985,156; Feb. 28; Sp. p. 4105; Gaz. vol. 163; p. 747.
Firearm trigger mechanism, Automatic-. H. Borchardt. No. 987,543; Mar. 21; Sp. p. 3741; Gaz. vol. 164; p. 668.
Firearm with stationary barrel, Automatic. C. Walther. No. 991,398; May 2; Sp. p. 1219; Gaz. vol. 166; p. 203.
Firearm with stationary barrel, Automatic. M. Knötgen. No. 993,175; May 23; Sp. p. 5027; Gaz. vol. 166; p. 908.
Firearms, Device for the suppression of the report of. E. Thurler. No. 1,000,702; Aug. 15; Sp. p. 3214; Gaz. vol. 169; p. 581.
Firearms, Discharging device for. H. G. G. von Schweinitz. No. 995,098; June 13; Sp. p. 2201; Gaz. vol. 167; p. 382.
Firearms, Drum-magazine for. K. Krnka. No. 1,008,162; Nov. 7; Sp. p. 1091; Gaz. vol. 172; p. 179.
Firearms, Light attachment for. C. A. Lewis. No. 982,280; Jan. 24; Sp. p. 4674; Gaz. vol. 162; p. 808.
Firearms, Means for attaching supplemental barrels to. W. L. Marble. No. 990,575; Apr. 25; Sp. p. 4961; Gaz. vol. 165; p. 866.
Firearms, Means for fastening sights on. P. Mauser. No. 1,004,180; Sept. 26; Sp. p. 4437; Gaz. vol. 170; p. 785.
Firearms, Supplemental barrel for magazine-. W. L. Marble. No. 1,009,161; Nov. 21; Sp. p. 3396; Gaz. vol. 172; p. 601.
Firearms, Tool for automatic. P. Mauser. No. 985,190; Feb. 28; Sp. p. 4178; Gaz. vol. 163; p. 760.
Firearms, Trigger mechanism for automatic. P. Mauser. No. 999,326; Aug. 1; Sp. p. 253; Gaz. vol. 169; p. 47.
Fireman's hood. F. W. Vinton. No. 996,739; July 4; Sp. p. 276; Gaz. vol. 168; p. 48.
Firemen, Air-supplying device for. G. W. Shaw. No. 989,880; Apr. 18; Sp. p. 3401; Gaz. vol. 165; p. 593.
Fireplace. L. C. Kreutzer and N. P. S. Möller. No. 992,004; May 9; Sp. p. 2486; Gaz. vol. 166; p. 442.
Fireplace. M. T. Weaver. No. 1,010,101; Nov. 28; Sp. p. 5416; Gaz. vol. 172; p. 971.
Fireplace, Open. P. G. Hubert. No. 987,882; Mar. 28; Sp. p. 4509; Gaz. vol. 164; p. 814.
Fireplace, Rotatable. H. J. Pendray. No. 984,598; Feb. 21; Sp. p. 2926; Gaz. vol. 163; p. 520.
Fireplaces, Arch and regulator attachment for. L. E. Clawson. No. 1,008,952; Nov. 14; Sp. p. 2953; Gaz. vol. 172; p. 493.
Fireproof beam. G. W. Brooks. No. 991,603; May 9; Sp. p. 1676; Gaz. vol. 166; p. 307.
Fireproof blocks, Apparatus for making. R. A. Henley. No. 1,001,952; Aug. 29; Sp. p. 5907; Gaz. vol. 169; p. 1071.
Fireproof book. H. H. Jensen. No. 1,009,071; Nov. 21; Sp. p. 3222; Gaz. vol. 172; p. 571.
Fireproof box. R. R. Wilder. No. 1,004,612; Oct. 3; Sp. p. 139; Gaz. vol. 171; p. 24.
Fireproof box for powder-cans. J. Rauth. No. 990,902; May 2; Sp. p. 155; Gaz. vol. 166; p. 29.
Fireproof-building floor construction. E. V. Johnson. No. 989,016; Apr. 11; Sp. p. 1519; Gaz. vol. 165; p. 267.
Fireproof construction, Block-holder for. H. Schwickart. No. 984,031; Feb. 14; Sp. p. 1707; Gaz. vol. 163; p. 294.
Fireproof door. T. P. Shean. No. 992,812; May 23; Sp. p. 4240; Gaz. vol. 166; p. 782.

Alphabetical list of inventions—Continued.

Fireproof door. E. R. Leonard. No. 998,620; July 25; Sp. p. 4395; Gaz. vol. 168; p. 805.
Fireproof door. A. R. Jones. No. 1,012,860; Dec. 26; Sp. p. 5481; Gaz. vol. 173; p. 970.
Fireproof door and window. E. P. Boyd. No. 1,009,218; Nov. 21; Sp. p. 3562; Gaz. vol. 172; p. 622.
Fireproof door or shutter. E. H. McCloud. No. 996,781; July 4; Sp. p. 360; Gaz. vol. 168; p. 62.
Fireproof flue. G. W. Davis and A. T. Shipman. No. 990,477; Apr. 25; Sp. p. 4730; Gaz. vol. 165; p. 832.
Fireproof partition sliding door for fire-walls, Hollow. R. W. E. Buttlar. No. 983,681; Feb. 7; Sp. p. 923; Gaz. vol. 163; p. 146.
Fireproof partitions, Metallic stud for. F. Voss. No. 981,040; Jan. 10; Sp. p. 1984; Gaz. vol. 162; p. 327.
Fireproof safe. C. Hill. No. 1,010,259; Nov. 28; Sp. p. 5719; Gaz. vol. 172; p. 1022.
Fireproof shutter. R. E. Byrne. No. 991,605; May 9; Sp. p. 1680; Gaz. vol. 166; p. 308.
Fireproof shutters, Baffle for. J. G. Wilson. No. 983,104; Jan. 31; Sp. p. 6429; Gaz. vol. 162; p. 1117.
Fireproof slabs or boards, Forming. J. A. Wheeler. No. 984,870; Feb. 21; Sp. p. 3493; Gaz. vol. 163; p. 617.
Fireproof structure. J. G. Wilson. No. 998,065; July 18; Sp. p. 3177; Gaz. vol. 168; p. 576.
Fireproof system. P. K. Magruder and J. Morey. No. 985,189; Feb. 28; Sp. p. 4176; Gaz. vol. 163; p. 760.
Fireproof window. S. H. Pomeroy. No. 999,254; Aug. 1; Sp. p. 124; Gaz. vol. 169; p. 23.
Fireproof window construction. E. H. Lunken and G. H. Riddell. No. 994,015; May 30; Sp. p. 6821; Gaz. vol. 166; p. 1224.
Fireproof window construction. E. H. Lunken. No. 1,002,166; Aug. 29; Sp. p. 6307; Gaz. vol. 169; p. 1140.
Fireproof window construction. J. G. Braun. No. 1,003,977; Sept. 26; Sp. p. 3928; Gaz. vol. 170; p. 713.
Fireproof window construction. E. H. Lunken. No. 1,005,249; Oct. 10; Sp. p. 1465; Gaz. vol. 171; p. 267.
Fireproof window-frame. H. E. Vance. No. 982,317; Jan. 24; Sp. p. 4745; Gaz. vol. 162; p. 820.
Fireproof window-sash. E. H. Johnson. No. 996,986; July 4; Sp. p. 827; Gaz. vol. 168; p. 133.
Fireproofing for safes and vault-doors. J. E. Davis. No. 981,247; Jan. 10; Sp. p. 2472; Gaz. vol. 162; p. 402.
First-aid packages or outfits, Carrier for. F. R. Batchelder. No. 1,007,515; Oct. 31; Sp. p. 6519; Gaz. vol. 171; p. 1178.
Fish bait or lure. E. J. and E. M. Lockhart. No. 1,009,077; Nov. 21; Sp. p. 3232; Gaz. vol. 172; p. 573.
Fish-cleaner. W. Munn. No. 981,300; Jan. 10; Sp. p. 2585; Gaz. vol. 162; p. 420.
Fish-cleaning machine. A. W. Eddy. No. 981,075; Jan. 10; Sp. p. 2064; Gaz. vol. 162; p. 340.
Fish-cutting machine. C. Wacker. No. 1,000,648; Aug. 15; Sp. p. 3102; Gaz. vol. 169; p. 562.
Fish-cutting machine. E. M. Lawrence. No. 1,010,156; Nov. 28; Sp. p. 5516; Gaz. vol. 172; p. 988.
Fish-dam. C. Kell. No. 993,074; May 23; Sp. p. 4820; Gaz. vol. 166; p. 875.
Fish-dressing machine. E. A. Smith. No. 998,129; July 18; Sp. p. 3324; Gaz. vol. 168; p. 599.
Fish, Drying. E. Passburg. No. 987,394; Mar. 21; Sp. p. 3465; Gaz. vol. 164; p. 619.
Fish grab-hook. J. M. Stephens and W. A. Zea. No. 995,426; June 20; Sp. p. 3048; Gaz. vol. 167; p. 543.
Fish-grapple. F. Klinger. No. 1,004,577; Oct. 3; Sp. p. 58; Gaz. vol. 171; p. 12.
Fish-grip. J. Dittmar. No. 1,006,367; Oct. 17; Sp. p. 3979; Gaz. vol. 171; p. 693.
Fish-hatcheries, Trough for. F. Parry. No. 1,007,383; Oct. 31; Sp. p. 6227; Gaz. vol. 171; p. 1133.
Fish-hook. L. Dale. No. 980,212; Jan. 3; Sp. p. 70; Gaz. vol. 162; p. 14.
Fish-hook. J. Osmond. No. 984,596; Feb. 21; Sp. p. 2923; Gaz. vol. 163; p. 520.
Fish-hook. A. A. Paysen. No. 984,963; Feb. 21; Sp. p. 3667; Gaz. vol. 163; p. 647.
Fish-hook. J. Olson. No. 986,747; Mar. 14; Sp. p. 2095; Gaz. vol. 164; p. 367.
Fish-hook. J. J. Mueller. No. 989,392; Apr. 11; Sp. p. 2335; Gaz. vol. 165; p. 395.
Fish-hook. J. S. Madderra. No. 989,717; Apr. 18; Sp. p. 3050; Gaz. vol. 165; p. 537.
Fish-hook. H. D. Balcom. No. 990,095; Apr. 18; Sp. p. 3848; Gaz. vol. 165; p. 666.
Fish-hook. N. B. Randal. No. 991,745; May 9; Sp. p. 1972; Gaz. vol. 166; p. 354.
Fish-hook. F. H. Pardon. No. 991,800; May 9; Sp. p. 2075; Gaz. vol. 166; p. 372.
Fish-hook. G. H. W. Doose. No. 1,012,528; Dec. 19; Sp. p. 4715; Gaz. vol. 173; p. 810.
Fish-hook extractor. L. Buras, Jr. No. 1,000,775; Aug. 15; Sp. p. 3379; Gaz. vol. 169; p. 607.
Fish-hooking device. E. E. Nelson. No. 1,012,899; Dec. 26; Sp. p. 5570; Gaz. vol. 173; p. 982.
Fish-line-attaching device. F. J. Rabbeth. No. 1,004,198; Sept. 26; Sp. p. 4471; Gaz. vol. 170; p. 791.
Fish-meat, Conserving. R. Tern. No. 999,274; Aug. 1; Sp. p. 155; Gaz. vol. 169; p. 29.
Fish net and trap. R. O. Mournian. No. 991,740; May 9; Sp. p. 1965; Gaz. vol. 166; p. 353.
Fish-plate. D. Eicher. No. 989,491; Apr. 11; Sp. p. 2527; Gaz. vol. 165; p. 428.
Fish, Preserving. R. Marot. No. 991,337; May 2; Sp. p. 1098; Gaz. vol. 166; p. 183.
Fish, Preserving. I. I. Kononoff. No. 1,002,707; Sept. 5; Sp. p. 1162; Gaz. vol. 170; p. 175.
Fish-rod. M. L. Aten. No. 997,730; July 11; Sp. p. 2373; Gaz. vol. 168; p. 417.
Fish-scaler. P. H. K. Kalnin. No. 1,008,473; Nov. 14; Sp. p. 1929; Gaz. vol. 172; p. 329.
Fish-scaling device. E. Oakleaf. No. 998,382; July 18; Sp. p. 3898; Gaz. vol. 168; p. 691.
Fish-scaling tool. M. M. Clarke. No. 1,000,073; Aug. 8; Sp. p. 1790; Gaz. vol. 169; p. 329.
Fish-screen. T. A. Howard. No. 992,563; May 16; Sp. p. 3731; Gaz. vol. 166; p. 668.
Fish-screen. S. Smith. No. 997,157; July 4; Sp. p. 1184; Gaz. vol. 168; p. 191.
Fish-screen. A. J. Collar. No. 1,011,119; Dec. 5; Sp. p. 1579; Gaz. vol. 173; p. 250.
Fish-screen. J. C. Aitken. No. 1,012,500; Dec. 19; Sp. p. 4665; Gaz. vol. 173; p. 801.
Fish-screen for water-chutes. B. J. Rowley. No. 988,033; Mar. 28; Sp. p. 4873; Gaz. vol. 164; p. 866.
Fish-screen, Revolving. J. W. Barnard. No. 1,007,630; Oct. 31; Sp. p. 6770; Gaz. vol. 171; p. 1217.
Fish-spear. A. B. Neuman. No. 1,009,553; Nov. 21; Sp. p. 4302; Gaz. vol. 172; p. 741.
Fish-stringer. H. J. Wickman and L. G. Watkins. No. 1,004,324; Sept. 26; Sp. p. 4709; Gaz. vol. 170; p. 832.
Fish-trap and pail, Combined. O. I. Searles. No. 996,731; July 4; Sp. p. 261; Gaz. vol. 168; p. 46.
Fish-trap, Floating. N. Jonasson. No. 1,001,760; Aug. 29; Sp. p. 5474; Gaz. vol. 169; p. 1006.
Fish-turner. E. L. and C. H. Bond. No. 1,005,590; Oct. 10; Sp. p. 2259; Gaz. vol. 171; p. 389.
Fishing and like lines. A. H. Illingworth. No. 998,341; July 18; Sp. p. 3814; Gaz. vol. 168; p. 678.
Fishing appliance. E. R. Gillette. No. 1,001,195; Aug. 22; Sp. p. 4299; Gaz. vol. 169; p. 784.
Fishing-bait, Artificial. A. Winnie. No. 1,009,363; Nov. 21; Sp. p. 3881; Gaz. vol. 172; p. 675.
Fishing-bob. C. Davis. No. 992,341; May 16; Sp. p. 3268; Gaz. vol. 166; p. 590.
Fishing device. E. Holmgreen. No. 993,374; May 30; Sp. p. 5460; Gaz. vol. 166; p. 1005.
Fishing device. W. Filipowski. No. 999,214; Aug. 1; Sp. p. 44; Gaz. vol. 169; p. 10.
Fishing-float. G. A. Pflueger. No. 983,309; Feb. 7; Sp. p. 112; Gaz. vol. 163; p. 20.
Fishing-float. G. A. Pflueger. No. 983,310; Feb. 7; Sp. p. 113; Gaz. vol. 163; p. 20.
Fishing-float. C. Williams. No. 987,522; Mar. 21; Sp. p. 3704; Gaz. vol. 164; p. 661.
Fishing-float and flash-light, Combined. A. Hatchett. No. 989,145; Apr. 11; Sp. p. 1790; Gaz. vol. 165; p. 311.
Fishing-floats, Means for connecting lines to. W. J. Kimbrough. No. 1,010,499; Dec. 5; Sp. p. 227; Gaz. vol. 173; p. 36.
Fishing-line leader. J. A. Dennis. No. 1,000,380; Aug. 15; Sp. p. 2491; Gaz. vol. 169; p. 466.
Fishing-reel. W. Shakespeare, Jr. No. 982,305; Jan. 24; Sp. p. 4725; Gaz. vol. 162; p. 817.
Fishing-reel. I. D. Wright. No. 983,013; Jan. 31; Sp. p. 6241; Gaz. vol. 162; p. 1086.
Fishing-reel. J. vom Hofe. No. 987,628; Mar. 21; Sp. p. 3914; Gaz. vol. 164; p. 697.
Fishing-reel. J. vom Hofe. No. 987,676; Mar. 21; Sp. p. 4044; Gaz. vol. 164; p. 716.
Fishing-reel. C. D. Staples. No. 990,674; Apr. 25; Sp. p. 5204; Gaz. vol. 165; p. 898.
Fishing-reel. J. A. Jernstedt. No. 1,001,857; Aug. 29; Sp. p. 5680; Gaz. vol. 169; p. 1039.
Fishing-reel. P. Catucci. No. 1,005,154; Oct. 10; Sp. p. 1240; Gaz. vol. 171; p. 232.
Fishing-reel. A. Wollensak. No. 1,009,818; Nov. 28; Sp. p. 4839; Gaz. vol. 172; p. 875.
Fishing-reels, Click mechanism for. W. Kramer. No. 996,348; June 27; Sp. p. 4962; Gaz. vol. 167; p. 874.
Fishing-rod. C. H. Hanson. No. 980,942; Jan. 10; Sp. p. 1692; Gaz. vol. 162; p. 292.
Fishing-rod handle. G. W. Upton. No. 1,001,326; Aug. 22; Sp. p. 4584; Gaz. vol. 169; p. 829.
Fishing-rod reels, Means for controlling the rotation of. W. E. Conniff. No. 1,010,021; Nov. 28; Sp. p. 5261; Gaz. vol. 172; p. 943.
Fishing-rod, Spliced. W. F. Beart. No. 984,741; Feb. 21; Sp. p. 3236; Gaz. vol. 163; p. 573.
Fishing-rods, &c., Lock-joint for. J. W. Young. No. 998,318; July 18; Sp. p. 3765; Gaz. vol. 168; p. 669.
Fishing-spoon. W. A. L. Miller. No. 982,974; Jan. 31; Sp. p. 6138; Gaz. vol. 162; p. 1072.
Fishing-stool. C. F. Fraser. No. 981,631; Jan. 17; Sp. p. 3272; Gaz. vol. 162; p. 555.
Fishing-tackle holder. W. M. Reely. No. 1,011,081; Dec. 5; Sp. p. 1491; Gaz. vol. 173; p. 236.
Fishing-tool. P. E. Lower. No. 985,817; Mar. 7; Sp. p. 97; Gaz. vol. 164; p. 21.

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Fishing-tool. J. T. Starr and B. M. McFarland. No. 1,006,020; Oct. 17; Sp. p. 3178; Gaz. vol. 171; p. 571.
Fishing-tool, Overshot. W. Kammerer and E. J. Schneider. No. 995,875; June 20; Sp. p. 3901; Gaz. vol. 167; p. 677.
Fishpole-reel. A. B. French. No. 1,005,015; Oct. 3; Sp. p. 976; Gaz. vol. 171; p. 163.
Fishway drum-screen. H. B. Johnston. No. 1,002,208; Aug. 29; Sp. p. 6406; Gaz. vol. 169; p. 1154.
Flag holding and stretching device. G. W. Blank. No. 984,884; Feb. 21; Sp. p. 3513; Gaz. vol. 163; p. 621.
Flagpole attachment. H. G. Suhr. No. 982,645; Jan. 24; Sp. p. 5414; Gaz. vol. 162; p. 934.
Flagstaff. C. F. Golden. No. 1,002,260; Sept. 5; Sp. p. 167; Gaz. vol. 170; p. 21.
Flagstaff, Hydraulic telescopic. J. Lavery. No. 990,570; Apr. 25; Sp. p. 4950; Gaz. vol. 165; p. 864.
Flange, Adjustable. P. Mueller. No. 992,974; May 23; Sp. p. 4608; Gaz. vol. 166; p. 841.
Flange-joint. O. Jahnke. No. 1,004,270; Sept. 26; Sp. p. 4607; Gaz. vol. 170; p. 815.
Flange-lubricating device. G. H. Dawson. No. 990,637; Apr. 25; Sp. p. 5082; Gaz. vol. 165; p. 886.
Flange-setting tool. W. P. Sweney. No. 1,011,092; Dec. 5; Sp. p. 1524; Gaz. vol. 173; p. 241.
Flanging-clamp. J. H. Optenberg. No. 1,003,497; Sept. 19; Sp. p. 2845; Gaz. vol. 170; p. 520.
Flanging-machine. H. McCabe. No. 1,006,861; Oct. 24; Sp. p. 5085; Gaz. vol. 171; p. 897.
Flash-light apparatus. C. P. Filson. No. 995,447; June 20; Sp. p. 2946; Gaz. vol. 167; p. 526.
Flash-light apparatus. H. J. Paul and F. Klein. No. 1,004,462; Sept. 26; Sp. p. 5001; Gaz. vol. 170; p. 880.
Flash-pan. L. Schlesinger. No. 1,002,763; Sept. 5; Sp. p. 1295; Gaz. vol. 170; p. 195.
Flashing. D. J. Galbraith. No. 1,000,506; Aug. 15; Sp. p. 2758; Gaz. vol. 169; p. 510.
Flask: *See* Car-wheel molding and casting flask; Metal-founder's flask; Molder's flask; Molding-flask; Snap-flask.
Flask. W. C. Bogenschutz. No. 983,870; Feb. 14; Sp. p. 1339; Gaz. vol. 163; p. 240.
Flask-bar. J. Tuohy. No. 1,003,549; Sept. 19; Sp. p. 2958; Gaz. vol. 170; p. 539.
Flask device, Snap-. L. A. Boss and W. J. Reardon. No. 1,008,943; Nov. 14; Sp. p. 2936; Gaz. vol. 172; p. 490.
Flask-guide. H. J. Schaumleffel. No. 986,223; Mar. 7; Sp. p. 965; Gaz. vol. 164; p. 157.
Flasks, Apparatus for discharging sand and castings from. J. W. Brown, Jr. No. 1,011,735; Dec. 12; Sp. p. 3012; Gaz. vol. 173; p. 502.
Flat-iron. I. E. Hotchkiss and O. Moberg. No. 994,844; June 13; Sp. p. 1652; Gaz. vol. 167; p. 296.
Flat-iron attachment. S. and F. Nedbor. No. 1,007,305; Oct. 31; Sp. p. 6056; Gaz. vol. 171; p. 1105.
Flat-iron, Automatic. A. S. Cubitt. No. 1,006,727; Oct. 24; Sp. p. 4757; Gaz. vol. 171; p. 847.
Flat-iron, Electric. F. H. McManus. No. 987,901; Mar. 28; Sp. p. 4551; Gaz. vol. 164; p. 820.
Flat-iron, Electrically-heated. R. W. Baker, V. L. King, and H. C. Parker. No. 999,541; Aug. 1; Sp. p. 692; Gaz. vol. 169; p. 118.
Flat-iron heater. M. E. Johnson. No. 986,393; Mar. 7; Sp. p. 1344; Gaz. vol. 164; p. 216.
Flat-iron, Self-heating. C. H. Ciliske. No. 983,683; Feb. 7; Sp. p. 926; Gaz. vol. 163; p. 146.
Flat-iron, Self-heating. W. J. Francis and C. S. Taggart. No. 1,002,573; Sept. 5; Sp. p. 878; Gaz. vol. 170; p. 129.
Flat-iron, Self-heating. R. Hildebrand. No. 1,008,335; Nov. 14; Sp. p. 1534; Gaz. vol. 172; p. 281.
Flat-iron stand. L. F. Parkhurst. No. 1,010,518; Dec. 5; Sp. p. 269; Gaz. vol. 173; p. 42.
Flat-iron waxer. H. L. Broman. No. 1,005,685; Oct. 10; Sp. p. 2459; Gaz. vol. 171; p. 421.
Flat-iron with detachable handle. L. Trestman. No. 1,012,481; Dec. 19; Sp. p. 4619; Gaz. vol. 173; p. 792.
Flat-irons, Heat-retainer for. E. A. Flagg. No. 1,001,747; Aug. 29; Sp. p. 5444; Gaz. vol. 169; p. 1002.
Flavoring composition. E. V. Shepard and F. J. Maywald. No. 988,213; Mar. 28; Sp. p. 5215; Gaz. vol. 164; p. 925.
Flax and other fiber-yielding plants, Machine for treating. E. Bosse. No. 1,001,925; Aug. 29; Sp. p. 5843; Gaz. vol. 169; p. 1062.
Flax fibers, Preparation of. E. Bek. No. 1,004,136; Sept. 26; Sp. p. 4332; Gaz. vol. 170; p. 770.
Flexible-band wheel. W. C. Matteson. No. 1,011,634; Dec. 12; Sp. p. 2819; Gaz. vol. 173; p. 470.
Flexible connection. J. H. O'Brien. No. 994,778; June 13; Sp. p. 1492; Gaz. vol. 167; p. 274.
Flexible coupling. A. Bigelman. No. 1,004,234; Sept. 26; Sp. p. 4542; Gaz. vol. 170; p. 803.
Flexible material, Machine for feeding and cutting. D. E. Kempster. No. 999,372; Aug. 1; Sp. p. 358; Gaz. vol. 169; p. 63.
Flexible pipe. W. T. Donnelly. No. 982,482; Jan. 24; Sp. p. 5104; Gaz. vol. 162; p. 881.
Flexible pipe. H. T. Ingham. No. 999,564; Aug. 1; Sp. p. 738; Gaz. vol. 169; p. 126.
Flexible tube. J. J. Mulconroy and E. S. Morris. No. 992,516; May 16; Sp. p. 3627; Gaz. vol. 166; p. 651.
Flier-frame, Sheet-metal. L. T. Houghton. No. 1,008,598; Nov. 14; Sp. p. 2205; Gaz. vol. 172; p. 376.
Flies and other insects, Apparatus for catching. F. W. Finch. No. 987,708; Mar. 28; Sp. p. 4122; Gaz. vol. 164; p. 754.
Flies from buildings, Means for excluding. C. B. Gillespie. No. 1,005,534; Oct. 10; Sp. p. 2090; Gaz. vol. 171; p. 368.
Flies from buildings, Means for excluding. C. B. Gillespie. No. 1,005,535; Oct. 10; Sp. p. 2094; Gaz. vol. 171; p. 369.
Flies from settling, Apparatus for preventing. C. Mills. No. 1,012,689; Dec. 26; Sp. p. 5067; Gaz. vol. 173; p. 909.
Flies or other insects, Device for catching. J. B. Luckett. No. 1,005,443; Oct. 10; Sp. p. 1909; Gaz. vol. 171; p. 337.
Fly-catcher. A. L. Richard. No. 989,724; Apr. 18; Sp. p. 3065; Gaz. vol. 165; p. 540.
Fly-catching pistol. E. E. Hayden. No. 980,633; Jan. 3; Sp. p. 972; Gaz. vol. 162; p. 159.
Fly-escape. A. J. Collar. No. 982,180; Jan. 17; Sp. p. 4435; Gaz. vol. 162; p. 743.
Fly-exit. G. Schubert. No. 1,011,377; Dec. 12; Sp. p. 2203; Gaz. vol. 173; p. 376.
Fly-fan, Screen-door. J. A. Painter. No. 998,794; July 25; Sp. p. 4794; Gaz. vol. 168; p. 866.
Fly-frames, Differential motion for. W. Shaw and N. F. Kepple. No. 994,692; June 6; Sp. p. 1259; Gaz. vol. 167; p. 204.
Fly-killer. W. H. Whitehead. No. 984,332; Feb. 14; Sp. p. 2346; Gaz. vol. 163; p. 397.
Fly-net holder. J. D. Krenz. No. 989,369; Apr. 11; Sp. p. 2287; Gaz. vol. 165; p. 387.
Fly or insect catcher. H. G. Lord. No. 988,003; Mar. 28; Sp. p. 4807; Gaz. vol. 164; p. 856.
Fly-paper holder. W. P. Boatwright. No. 995,111; June 13; Sp. p. 2218; Gaz. vol. 167; p. 386.
Fly-paper holder. D. M. Syme. No. 996,375; June 27; Sp. p. 5019; Gaz. vol. 167; p. 884.
Fly-paper holder. J. E. Hildt. No. 1,010,760; Dec. 5; Sp. p. 815; Gaz. vol. 173; p. 127.
Fly-paper holder. C. Speich. No. 1,012,466; Dec. 19; Sp. p. 4594; Gaz. vol. 173; p. 787.
Fly-paper holder, Sticky-. G. and H. R. Laube. No. 989,911; Apr. 18; Sp. p. 3473; Gaz. vol. 165; p. 604.
Fly-paper package. E. Lahr. No. 985,423; Feb. 28; Sp. p. 4698; Gaz. vol. 163; p. 837.
Fly-paper, Packing-case for sticky. F. Lundbeck. No. 1,012,382; Dec. 19; Sp. p. 4438; Gaz. vol. 173; p. 760.
Fly-paper stand. F. G. Johnson. No. 1,007,111; Oct. 31; Sp. p. 5635; Gaz. vol. 171; p. 1035.
Fly-screen. L. S. Couplin. No. 990,635; Apr. 25; Sp. p. 5080; Gaz. vol. 165; p. 885.
Fly-trap. T. N. Jones. No. 981,089; Jan. 10; Sp. p. 2089; Gaz. vol. 162; p. 345.
Fly-trap. J. G. Moncus. No. 981,459; Jan. 10; Sp. p. 2931; Gaz. vol. 162; p. 475.
Fly-trap. T. J. Rogers. No. 984,392; Feb. 14; Sp. p. 2460; Gaz. vol. 163; p. 416.
Fly-trap. F. D. Maart. No. 984,950; Feb. 21; Sp. p. 3649; Gaz. vol. 163; p. 643.
Fly-trap. S. F. Rockley. No. 985,840; Mar. 7; Sp. p. 175; Gaz. vol. 164; p. 28.
Fly-trap. P. Lagodimos. No. 986,833; Mar. 14; Sp. p. 2288; Gaz. vol. 164; p. 396.
Fly-trap. J. Kress. No. 987,889; Mar. 28; Sp. p. 4521; Gaz. vol. 164; p. 816.
Fly-trap. H. Sayles. No. 988,146; Mar. 28; Sp. p. 5091; Gaz. vol. 164; p. 903.
Fly-trap. J. G. Vogt and J. A. Johnson. No. 990,084; Apr. 18; Sp. p. 3821; Gaz. vol. 165; p. 662.
Fly-trap. C. C. Carpenter. No. 992,158; May 16; Sp. p. 2823; Gaz. vol. 166; p. 525.
Fly-trap. W. Kurlbaum. No. 993,844; May 30; Sp. p. 6484; Gaz. vol. 166; p. 1168.
Fly-trap. A. A. Means. No. 995,886; June 20; Sp. p. 3930; Gaz. vol. 167; p. 681.
Fly-trap. J. Fritsch. No. 1,005,530; Oct. 10; Sp. p. 2084; Gaz. vol. 171; p. 367.
Fly-trap. G. Depner. No. 1,007,931; Nov. 7; Sp. p. 645; Gaz. vol. 172; p. 100.
Fly-trap. G. Dill. No. 1,009,387; Nov. 21; Sp. p. 3955; Gaz. vol. 172; p. 684.
Fly-trap. A. W. Stouder. No. 1,011,389; Dec. 12; Sp. p. 2228; Gaz. vol. 173; p. 380.
Fly-trap. T. H. Schmutz. No. 1,012,452; Dec. 19; Sp. p. 4569; Gaz. vol. 173; p. 783.
Fly-trap for screen-doors. W. D. Baker. No. 998,449; July 18; Sp. p. 4021; Gaz. vol. 168; p. 713.
Fly-trap for screens. W. L. Webb. No. 989,314; Apr. 11; Sp. p. 2170; Gaz. vol. 165; p. 369.
Fly-wheel. W. H. Heine. No. 986,978; Mar. 14; Sp. p. 2567; Gaz. vol. 164; p. 444.
Flying apparatus. J. R. Vize. No. 1,012,767; Dec. 26; Sp. p. 5238; Gaz. vol. 173; p. 938.
Flying boat. C. R. Mitchell. No. 1,005,272; Oct. 10; Sp. p. 1523; Gaz. vol. 171; p. 276.
Flying-machine. H. J. Casanova. No. 980,489; Jan. 3; Sp. p. 679; Gaz. vol. 162; p. 110.

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Flying-machine. E. D. Appley. No. 982,700; Jan. 24; Sp. p. 5529; Gaz. vol. 162; p. 952.
Flying-machine. J. E. Kaupke. No. 983,826; Feb. 7; Sp. p. 1226; Gaz. vol. 163; p. 195.
Flying-machine. J. B. Shainline. No. 983,940; Feb. 14; Sp. p. 1493; Gaz. vol. 163; p. 263.
Flying-machine. J. Anderson. No. 984,255; Feb. 14; Sp. p. 2187; Gaz. vol. 163; p. 370.
Flying-machine. A. J. Beauregard. No. 984,258; Feb. 14; Sp. p. 2202; Gaz. vol. 163; p. 372.
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Flying-machine. A. H. Friedel. No. 984,270; Feb. 14; Sp. p. 2226; Gaz. vol. 163; p. 376.
Flying-machine. J. A. Horne. No. 985,034; Feb. 21; Sp. p. 3800; Gaz. vol. 163; p. 671.
Flying-machine. D. Smith. No. 985,849; Mar. 7; Sp. p. 193; Gaz. vol. 164; p. 31.
Flying-machine. K. Hipssich. No. 986,002; Mar. 7; Sp. p. 540; Gaz. vol. 164; p. 86.
Flying-machine. H. Mitchell. No. 986,195; Mar. 7; Sp. p. 913; Gaz. vol. 164; p. 148.
Flying-machine. M. D. Compton. No. 986,364; Mar. 7; Sp. p. 1276; Gaz. vol. 164; p. 206.
Flying-machine. M. A. Parisano. No. 987,596; Mar. 21; Sp. p. 3857; Gaz. vol. 164; p. 687.
Flying-machine. O. and W. Wright. No. 987,662; Mar. 21; Sp. p. 3988; Gaz. vol. 164; p. 711.
Flying-machine. C. H. Cornelius. No. 987,796; Mar. 28; Sp. p. 4303; Gaz. vol. 164; p. 784.
Flying-machine. P. A. Watson. No. 988,415; Apr. 4; Sp. p. 271; Gaz. vol. 165; p. 44.
Flying-machine. J. L. Love. No. 988,794; Apr. 4; Sp. p. 1083; Gaz. vol. 165; p. 172.
Flying-machine. J. Phillips. No. 989,412; Apr. 11; Sp. p. 2377; Gaz. vol. 165; p. 401.
Flying-machine. J. A. Blondin. No. 989,520; Apr. 11; Sp. p. 2600; Gaz. vol. 165; p. 439.
Flying-machine. E. E. Lessard. No. 989,616; Apr 18; Sp. p. 2844; Gaz. vol. 165; p. 503.
Flying-machine. U. G. Lee and W. A. Darrah. No. 989,786; Apr. 18; Sp. p. 3202; Gaz. vol. 165; p. 562.
Flying-machine. B. Chalfant. No. 990,424; Apr. 25; Sp. p. 4631; Gaz. vol. 165; p. 814.
Flying-machine. A. T. Newbury. No. 990,897; May 2; Sp. p. 147; Gaz. vol. 166; p. 28.
Flying-machine. G. S. Udstad. No. 991,115; May 2; Sp. p. 611; Gaz. vol. 166; p. 104.
Flying-machine. M. Dingfelder. No. 991,770; May 9; Sp. p. 2012; Gaz. vol. 166; p. 362.
Flying-machine. S. A. Witherspoon. No. 991,811; May 9; Sp. p. 2107; Gaz. vol. 166; p. 377.
Flying-machine. O. Haselau. No. 991,846; May 9; Sp. p. 2178; Gaz. vol. 166; p. 388
Flying-machine. J. Zimmerli. No. 992,099; May 9; Sp. p. 2661; Gaz. vol. 166; p. 474.
Flying-machine. C. N. Newcomb. No. 992,579; May 16; Sp. p. 3758; Gaz. vol. 166; p. 673.
Flying-machine. E. L. Madden. No. 992,726; May 16; Sp. p. 4050; Gaz. vol. 166; p. 723.
Flying-machine. F. W. Jatunn. No. 992,874; May 23; Sp. p. 4382; Gaz. vol. 166; p. 805.
Flying-machine. J. W. Harrison. No. 993,987; May 30; Sp. p. 6760; Gaz. vol. 166; p. 1214.
Flying-machine. G. Kunicke. No. 994,757; June 13; Sp. p. 1451; Gaz. vol. 167; p. 267.
Flying-machine. J. W. Woodington. No. 994,966; June 13; Sp. p. 1925; Gaz. vol. 167; p. 338.
Flying-machine. G. F. Myers. No. 995,550; June 20; Sp. p. 3166; Gaz. vol. 167; p. 563.
Flying-machine. J. L. Walker. No. 995,819; June 20; Sp. p. 3779; Gaz. vol. 167; p. 659.
Flying-machine. A. H. Friedel. No. 996,233; June 27; Sp. p. 4681; Gaz. vol. 167; p. 834.
Flying-machine. V. Camal. No. 996,613; July 4; Sp. p. 27; Gaz. vol. 168; p. 7.
Flying-machine. F. M. Eggert. No. 996,627; July 4; Sp. p. 73; Gaz. vol. 168; p. 13.
Flying-machine. P. T. Moody. No. 996,659; July 4; Sp. p. 130; Gaz. vol. 168; p. 23.
Flying-machine. O. A. Fenn. No. 997,122; July 4; Sp. p. 1102; Gaz. vol. 168; p. 179.
Flying-machine. C. Winston. No. 997,727; July 11; Sp. p. 2367; Gaz. vol. 168; p. 415.
Flying-machine. W. N. Searcy. No. 998,408; July 18; Sp. p. 3950; Gaz. vol. 168; p. 700.
Flying-machine. J. C. Schleicher. No. 998,553; July 18; Sp. p. 4224; Gaz. vol. 168; p. 748.
Flying-machine. J. C. Schleicher. No. 998,554; July 18; Sp. p. 4227; Gaz. vol. 168; p. 749.
Flying-machine. A. L. McKeeth. No. 998,791; July 25; Sp. p. 4787; Gaz. vol. 168; p. 865.
Flying-machine. K. Leon. No. 999,170; July 25; Sp. p. 5595; Gaz. vol. 168; p. 995.
Flying-machine. C. W. Waller. No. 999,278; Aug. 1; Sp. p. 160; Gaz. vol. 169; p. 31.
Flying-machine. W. Rebikoff. No. 999,337; Aug. 1; Sp. p. 276; Gaz. vol. 169; p. 51.
Flying-machine. W. W. Green. No. 999,448; Aug. 1; Sp. p. 507; Gaz. vol. 169; p. 88.
Flying-machine. A. Helfer. No. 999,560; Aug. 1; Sp. p. 731; Gaz. vol. 169; p. 125.
Flying-machine. H. Gundersen. No. 999,715; Aug. 1; Sp. p. 1022; Gaz. vol. 169; p. 177.
Flying-machine. W. H. Stebbins and L. Geynet. No. 1,000,127; Aug. 8; Sp. p. 1937; Gaz. vol. 169; p. 348.
Flying-machine. D. W. Moore. No. 1,000,283; Aug. 8; Sp. p. 2264; Gaz. vol. 169; p. 401.
Flying-machine. E. H. Skinner. No. 1,000,560; Aug. 15; Sp. p. 2887; Gaz. vol. 169; p. 530.
Flying-machine. W. D. Burk. No. 1,000,711; Aug. 15; Sp. p. 3229; Gaz. vol. 169; p. 583.
Flying-machine. J. A. Blondin. No. 1,001,120; Aug. 22; Sp. p. 4162; Gaz. vol. 169; p. 761.
Flying-machine. A. M. Zimmers. No. 1,001,185; Aug. 22; Sp. p. 4278; Gaz. vol. 169; p. 781.
Flying-machine. P. C. Hopkins. No. 1,001,849; Aug. 29; Sp. p. 5662; Gaz. vol. 169; p. 1037.
Flying-machine. W. C. Culbertson. No. 1,002,138; Aug. 29; Sp. p. 6254; Gaz. vol. 169; p. 1131.
Flying-machine. N. R. Lamb. No. 1,002,528; Sept. 5; Sp. p. 774; Gaz. vol. 170; p. 113.
Flying-machine. W D. Lindsley. No. 1,002,532; Sept. 5; Sp. p. 784; Gaz. vol. 170; p. 115.
Flying-machine. J. A. Goodwin. No. 1,002,674; Sept. 5; Sp. p. 1085; Gaz. vol. 170; p. 164.
Flying-machine. L. C. Kincannon. No. 1,003,756; Sept. 19; Sp. p. 3424; Gaz. vol. 170; p. 611.
Flying-machine. M. G. Adams. No. 1,003,858; Sept. 19; Sp. p. 3624; Gaz. vol. 170; p. 644.
Flying-machine. M. G. Adams. No. 1,003,859; Sept. 19; Sp. p. 3628; Gaz. vol. 170; p. 645.
Flying-machine. J. J. Day. No. 1,003,885; Sept. 19; Sp. p. 3677; Gaz. vol. 170; p. 654.
Flying-machine. W. H. McKeen. No. 1,004,058; Sept. 26; Sp. p. 4126; Gaz. vol. 170; p. 741.
Flying-machine. D. C. Vought. No. 1,004,117; Sept. 26; Sp. p. 4290; Gaz. vol. 170; p. 763.
Flying-machine. E. P. Vincent. No. 1,005,120; Oct. 3; Sp. p. 1169; Gaz. vol. 171; p. 198.
Flying-machine. C. F. Kohlruss. No. 1,005,232; Oct. 10; Sp. p. 1424; Gaz. vol. 171; p. 260.
Flying-machine. S. Weber. No. 1,005,381; Oct. 10; Sp. p. 1763; Gaz. vol. 171; p. 315.
Flying-machine. E. J. Crawford. No. 1,005,941; Oct. 17; Sp. p. 3022; Gaz. vol. 171; p. 544.
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Flying-machine. S. S. Yarrington. No. 1,006,335; Oct. 17; Sp. p. 3898; Gaz. vol. 171; p. 681.
Flying-machine. H. M. Benson. No. 1,006,624; Oct. 24; Sp. p. 4570; Gaz. vol. 171; p. 815.
Flying-machine. P. Meissner. No. 1,007,225; Oct. 31; Sp. p. 5901; Gaz. vol. 171; p. 1077.
Flying-machine. J. Proksa. No. 1,007,486; Oct. 31; Sp. p. 6435; Gaz. vol. 171; p. 1168.
Flying-machine. A. O. Gardiner. No. 1,008,131; Nov. 7; Sp. p. 1039; Gaz. vol. 172; p. 168.
Flying-machine. W. C. Lawson. No. 1,008,417; Nov. 14; Sp. p. 1779; Gaz. vol. 172; p. 310.
Flying-machine. R. C. White. No. 1,008,761; Nov. 14; Sp. p. 2555; Gaz. vol. 172; p. 431.
Flying-machine. F. E. Borkenhagen. No. 1,008,887; Nov. 14; Sp. p. 2810; Gaz. vol. 172; p. 473.
Flying-machine. G. Lehberger. No. 1,009,157; Nov. 21; Sp. p. 3383; Gaz. vol. 172; p, 599.
Flying-machine. P. A. Nilson. No. 1,009,780; Nov. 28; Sp. p. 4756; Gaz. vol. 172; p. 861.
Flying-machine. A. Pusterla. No. 1,009,855; Nov. 28; Sp. p. 4909; Gaz. vol. 172; p. 887.
Flying-machine. S. B. Minnich. No. 1,010,443; Dec. 5; Sp. p. 77; Gaz. vol. 173; p. 16.
Flying-machine. C. J. Lake. No. 1,010,644; Dec. 5; Sp. p. 544; Gaz. vol. 173; p. 86.
Flying-machine. F. W. Baldwin. No. 1,010,842; Dec. 5; Sp. p. 986; Gaz. vol. 173; p. 154.
Flying-machine. R. Cole. No. 1,011,031; Dec. 5; Sp. p. 1376; Gaz. vol. 173; p. 219.
Flying-machine. A. G. Bell, F. W. Baldwin, J. A. D. McCurdy, G. H. Curtiss, and T. E. Selfridge. No. 1,011,106; Dec. 5; Sp. p. 1550; Gaz. vol. 173; p. 246.
Flying-machine. R. J. and J. G. Haskell. No. 1,011,124; Dec. 5; Sp. p. 1589; Gaz. vol. 173; p. 252.
Flying-machine. S. C. Anker-Holth. No. 1,011,143; Dec. 12; Sp. p. 1666; Gaz. vol. 173; p. 294.
Flying-machine. M. F. Patton. No. 1,011,365; Dec. 12; Sp. p. 2184; Gaz. vol. 173; p. 372.
Flying-machine. W. Stevens. No. 1,011,386; Dec. 12; Sp. p. 2219; Gaz. vol. 173; p. 379.
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Flying-machine. E. W. F. Herrmann. No. 1,011,620; Dec. 12; Sp. p. 2791; Gaz. vol. 173; p. 465.
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Flying-machine aeroplane. J. T. Rydberg. No. 993,623; May 30; Sp. p. 6000; Gaz. vol. 166; p. 1091.
Flying-machine equilibrium apparatus. A. F. W. Macmanus. No. 1,002,067; Aug. 29; Sp. p. 6128; Gaz. vol. 169; p. 1107.
Flying-machine or airship. D. P. McLaughlin. No. 991,794; May 9; Sp. p. 2054; Gaz. vol. 166; p. 370.
Flying-machine parachute. J. W. Dolson. No. 1,003,714; Sept. 19; Sp. p. 3337; Gaz. vol. 170; p. 597.
Flying-machine propelling device. J. Peters. No. 996,276; June 27; Sp. p. 4788; Gaz. vol. 167; p. 849.
Flying-machine rudder, Universal. W. Kriedter and W. Bourdon. No. 996,863; July 4; Sp. p. 546; Gaz. vol. 168; p. 90.
Flying-machine safety alighting attachment. J. F. Webb. No. 1,011,683; Dec. 12; Sp. p. 2903; Gaz. vol. 173; p. 485.
Flying-machine screw-propeller. A. Wunderlich. No. 1,010,337; Nov. 28; Sp. p. 5890; Gaz. vol. 172; p. 1049.
Flying-machine steering apparatus. P. Beidl. No. 997,733; July 11; Sp. p. 2379; Gaz. vol. 168; p. 418.
Flying-machine wing. W. Kriedter and W. H. Bourdon. No. 993,842; May 30; Sp. p. 6480; Gaz. vol. 166; p. 1167.
Flying-machine with flapping wings. R. L. Riout. No. 1,009,692; Nov. 21; Sp. p. 4555; Gaz. vol. 172; p. 786.
Flying-machines, Automatic lateral-balance-controlling device for. R. M. Thompson. No. 1,003,670; Sept. 19; Sp. p. 3226; Gaz. vol. 170; p. 582.
Flying-machines, Equilibrium-retaining device for. A. F. W. Macmanus. No. 1,010,286; Nov. 28; Sp. p. 5791; Gaz. vol. 172; p. 1031.
Flying-machines or marine vessels, Propeller for. D. D. Wells. No. 997,884; July 11; Sp. p. 2744; Gaz. vol. 168; p. 470.
Flying-machines, Propelling-vane for. M. Goehler. No. 997,804; July 11; Sp. p. 2585; Gaz. vol. 168; p. 444.
Flying-machines, Stabilizing mechanism for. H. W. Pike and R. E. Johnson. No. 1,012,006; Dec. 19; Sp. p. 3628; Gaz. vol. 173; p. 632.
Flying-machines, Supporting-surface for. I. Etrich. No. 983,697; Feb. 7; Sp. p. 955; Gaz. vol. 163; p. 151.
Flying-machines, Wheeled carriage for. H. L., A. E., and H. O. Short. No. 984,497; Feb. 14; Sp. p. 2680; Gaz. vol. 163; p. 450.
Flying-rings and trapeze. C. Mells. No. 1,012,212; Dec. 19; Sp. p. 4095; Gaz. vol. 173; p. 703.
Flying shears. A. Berg and J. A. Fray. No. 1,010,571; Dec. 5; Sp. p. 378; Gaz. vol. 173; p. 60.
Float. J. T. Lynch. No. 982,615; Jan. 24; Sp. p. 5360; Gaz. vol. 162; p. 924.
Float. T. J. Cookson. No. 998,279; July 18; Sp. p. 3660; Gaz. vol. 168; p. 654.
Float-gage. F. L. Lander. No. 981,434; Jan. 10; Sp. p. 2889; Gaz. vol. 162; p. 466.
Floating structure. G. A. Wieland. No. 1,004,718; Oct. 3; Sp. p. 375; Gaz. vol. 171; p. 62.
Floor and bench scraper, Combined. G. J. Engert and C. R. Hesseltine. No. 1,008,295; Nov. 7; Sp. p. 1409; Gaz. vol. 172; p. 228.
Floor and ceiling plate. A. J. Beaton. No. 983,115; Jan. 31; Sp. p. 6449; Gaz. vol. 162; p. 1120
Floor and ceiling plates, Making. A. J. Beaton. No. 1,007,633; Oct. 31; Sp. p. 6778; Gaz. vol. 171; p. 1218.
Floor-cleaning machine. M. Seyferth. No. 1,000,699; Aug. 15; Sp. p. 3210; Gaz. vol. 169; p. 580.
Floor connection. J. J. Donovan. No. 988,555; Apr. 4; Sp. p. 558; Gaz. vol. 165; p. 90.
Floor construction, Composite. F. W. Wilson. No. 999,286; Aug. 1; Sp. p. 176; Gaz. vol. 169; p. 34.
Floor-controller. A. Sundh. No. 998,653; July 25; Sp. p. 4469; Gaz. vol. 168; p. 816.
Floor-covering, Waterproof. J. Smith. No. 1,008,296; Nov. 7; Sp. p. 1410; Gaz. vol. 172; p. 228.
Floor-jack. G. Hubbard. No. 1,005,038; Oct. 3; Sp. p. 1027; Gaz. vol. 171; p. 171.
Floor or wall connector, Electrical. S. E. Steele. No. 982,544; Jan. 24; Sp. p. 5225; Gaz. vol. 162; p. 901.
Floor-plate. F. E. McCabe and M. C. Rosenfeld. No. 1,010,659; Dec. 5; Sp. p. 569; Gaz. vol. 173; p. 91.
Floor-rubber. J. F. Fitch. No. 995,125; June 13; Sp. p. 2243; Gaz. vol. 167; p. 390.
Floor-scraper. W. Holden. No. 986,004; Mar. 7; Sp. p. 542; Gaz. vol. 164; p. 86.
Floor-scraper. S. Drew. No. 987,706; Mar. 28; Sp. p. 4118; Gaz. vol. 164; p. 754.
Floor-scraping machine. P. Rudd. No. 989,726; Apr. 18; Sp. p. 3067; Gaz. vol. 165; p. 540.
Floor-strip, Removable. W. S. Mitchell. No. 982,522; Jan. 24; Sp. p. 5187; Gaz. vol. 162; p. 894.
Floor surfacing, cleaning, and polishing machine. R. and W. Stipe. No. 984,501; Feb. 14; Sp. p. 2688; Gaz. vol. 163; p. 452.
Floor-surfacing machine. A. A. Bagalio. No. 982,759; Jan. 24; Sp. p. 5666; Gaz. vol. 162; p. 971.
Floor-surfacing machine. H. L. Young. No. 990,092; Apr. 18; Sp. p. 3840; Gaz. vol. 165; p. 665.
Floor-surfacing machine. J. Herr, L. H. Wood, and S. W. Heaton. No. 1,009,245; Nov. 21; Sp. p. 3617; Gaz. vol. 172; p. 631.
Floor-surfacing machine, Stone-. M. L. Schlueter. No. 1,000,696; Aug. 15; Sp. p. 3203; Gaz. vol. 169; p. 570.
Floors, Machine for removing water from. T. R. Jenkins, Jr. No. 1,006,221; Oct. 17; Sp. p. 3650; Gaz. vol. 171; p. 642.
Flooring and sheathing clamp, Adjustable. J. C. Moen. No. 981,871; Jan. 17; Sp. p. 3775; Gaz. vol. 162; p. 638.
Flooring-clamp. J. G. Jones. No. 981,569; Jan. 10; Sp. p. 3141; Gaz. vol. 162; p. 512.
Flooring-clamp. R. H. Squires. No. 990,074; Apr. 18; Sp. p. 3804; Gaz. vol. 165; p. 659.
Flooring, Die for interlocked sectional. A. W. Nilsson. No. 999,844; Aug. 8; Sp. p. 1281; Gaz. vol. 169; p. 250.
Floral and display refrigerator. R. L. Tilghman. No. 986,875; Mar. 14; Sp. p. 2377; Gaz. vol. 164; p. 411.
Flour from wheat, Milling and conditioning. L. M. Thomas. No. 1,010,202; Nov. 28; Sp. p. 5606; Gaz. vol. 172; p. 1004.
Flour, Milling. A. E. Humphries. No. 983,719; Feb. 7; Sp. p. 996; Gaz. vol. 163; p. 158.
Flour, Milling. A. E. Humphries. No. 983,720; Feb. 7; Sp. p. 997; Gaz. vol. 163; p. 158.
Flour of maize, Making. A. and A. Erosa. No. 987,560; Mar. 21; Sp. p. 3770; Gaz. vol. 164; p. 673.
Flour or meal, Producing. C. Herendeen. No. 1,002,090; Sept. 12; Sp. p. 1802; Gaz. vol. 170; p. 312.
Flow-controlling mechanism. J. W. Ledoux. No. 993,384; May 30; Sp. p. 5477; Gaz. vol. 166; p. 1008.
Flow-motor and valve operated thereby. R. H. White. No. 987,932; Mar. 28; Sp. p. 4635; Gaz. vol. 164; p. 831.
Flower, Artificial. G. E. Chandlee. No. 989,693; Apr. 18; Sp. p. 3008; Gaz. vol. 165; p. 529.
Flower-holder. W. H. Bone. No. 998,322; July 18; Sp. p. 3772; Gaz. vol. 168; p. 671.
Flower-pot holder. T. J. Browning. No. 999,202; Aug. 1; Sp. p. 21; Gaz. vol. 169; p. 6.
Flower-receptacle. C. R. Sanborn. No. 980,565; Jan. 3; Sp. p. 848; Gaz. vol. 162; p. 136.
Flowers, Preservation of natural. L. E. Ostrander. No. 996,788; July 4; Sp. p. 376; Gaz. vol. 168; p. 64.
Flue-cleaner. W. V. Taber. No. 1,003,545; Sept. 19; Sp. p. 2951; Gaz. vol. 170; p. 538.
Flue-cleaner. E. Richards. No. 1,006,680; Oct. 24; Sp. p. 4680; Gaz. vol. 171; p. 833.
Flue-cleaner. W. E. Bernhardt. No. 1,007,423; Oct. 31; Sp. p. 6309; Gaz. vol. 171; p. 1147.
Flue-cleaner. C. H. Davies. No. 1,010,028; Nov. 28; Sp. p. 5277; Gaz. vol. 172; p. 946.
Flue-cleaner for stoves and ranges. W. Jaques. No. 983,143; Jan. 31; Sp. p. 6493; Gaz. vol. 162; p. 1129.
Flue-cleaner support, Adjustable. C. C. Chamberlin. No. 1,012,327; Dec. 19; Sp. p. 4334; Gaz. vol. 173; p. 743.
Flue-cutter. J. Casagrande. No. 996,310; June 27; Sp. p. 4872; Gaz. vol. 167; p. 859.
Flue-cutting device. L. B. Burt. No. 982,932; Jan. 31; Sp. p. 6053; Gaz. vol. 162; p. 1059.
Flue expander and beader. T. F. Grady. No. 1,006,934; Oct. 24; Sp. p. 5243; Gaz. vol. 171; p. 922.
Flue-plug. S. Adams. No. 987,099; Mar. 21; Sp. p. 2795; Gaz. vol. 164; p. 515.
Flue-scraper. J. S. Park. No. 991,355; May 2; Sp. p. 1130; Gaz. vol. 166; p. 189.
Flue-sheet. J. Workman. No. 1,005,760; Oct. 10; Sp. p. 2600; Gaz. vol. 171; p. 448.
Flue-stop. J. Armstrong. No. 996,447; June 27; Sp. p. 5188; Gaz. vol. 167; p. 909.
Flue stop and thimble. R. C. Snyder. No. 994,208; June 6; Sp. p. 223; Gaz. vol. 167; p. 38.
Flue-stopper. A. W. Andrews. No. 983,797; Feb. 7; Sp. p. 1153; Gaz. vol. 163; p. 184.
Flue-stopper. C. A. Roseland. No. 999,401; Aug. 1; Sp. p. 417; Gaz. vol. 169; p. 74.
Flue-stopper. O. P. Eggan. No. 999,723; Aug. 1; Sp. p. 1048; Gaz. vol. 169; p. 180.
Fluid-actuating apparatus, Shock-preventing means for. J. A. Snee. No. 989,883; Apr. 18; Sp. p. 3407; Gaz. vol. 165; p. 594.
Fluid, Apparatus for generating motive. G. B. Hayes. No. 1,001,591; Aug. 22; Sp. p. 5088; Gaz. vol. 169; p. 916.
Fluid-brake. O. Lauber. No. 988,789; Apr. 4; Sp. p. 1067; Gaz. vol. 165; p. 171.
Fluid compressor, Gaseous-. E. Nauer. No. 1,000,539; Aug. 15; Sp. p. 2835; Gaz. vol. 169; p. 522.
Fluid-compressor regulator. W. Raymond. No. 998,201; July 18; Sp. p. 3460; Gaz. vol. 168; p. 624.
Fluid-compressor regulator. W. Raymond. No. 998,202; July 18; Sp. p. 3462; Gaz. vol. 168; p. 624.
Fluid-controlling device. P. Plantinga. No. 991,641; May 9; Sp. p. 1750; Gaz. vol. 166; p. 321.
Fluid-controlling device. H. W. Eisenbise. No. 1,006,189; Oct. 17; Sp. p. 3564; Gaz. vol. 171; p. 631.
Fluid-conveying tubes, Fluid-guide for. H. Sims. No. 985,216; Feb. 28; Sp. p. 4242; Gaz. vol. 163; p. 769.
Fluid-distributing device. C. P. Price. No. 998,983; July 25; Sp. p. 5242; Gaz. vol. 168; p. 934.
Fluid-ejecting apparatus. H. Beddoes. No. 1,006,822; Oct. 24; Sp. p. 4992; Gaz. vol. 171; p. 883.
Fluid-ejector. M. Leblanc. No. 1,001,153; Aug. 22; Sp. p. 4215; Gaz. vol. 169; p. 771.

Alphabetical list of inventions—Continued.

Fluid-gage. J. H. Birchard and W. Rexine. No. 1,002,557; Sept. 5; Sp. p. 838; Gaz. vol. 170; p. 123.
Fluid-gage. M. Martin. No. 1,003,404; Sept. 12; Sp. p. 2642; Gaz. vol. 170; p. 455.
Fluid-generating apparatus, Motive-. N. B. Wales. No. 989,214; Apr. 11; Sp. p. 1937; Gaz. vol. 165; p. 335.
Fluid generator, Motive-. G. B. Hayes. No. 1,001,592; Aug. 22; Sp. p. 5093; Gaz. vol. 169; p. 917.
Fluid-governor. F. O. Gray. No. 1,010,747; Dec. 5; Sp. p. 780; Gaz. vol. 173; p. 122.
Fluid-heater. L. D. Lovekin. No. 1,005,441; Oct. 10; Sp. p. 1901; Gaz. vol. 171; p. 336.
Fluid heater and cooler. L. D. Lovekin. No. 983,913; Feb. 14; Sp. p. 1439; Gaz. vol. 163; p. 254.
Fluid heater and cooler. L. D. Lovekin. No. 983,914; Feb. 14; Sp. p. 1443; Gaz. vol. 163; p. 255.
Fluid heater and cooler. L. D. Lovekin. No. 1,005,442; Oct. 10; Sp. p. 1905; Gaz. vol. 171; p. 336.
Fluid-heating apparatus. E. C. Newcomb. No. 1,008,358; Nov. 14; Sp. p. 1588; Gaz. vol. 172; p. 288.
Fluid-meter. E. P. Coleman. No. 986,423; Mar. 7; Sp. p. 1401; Gaz. vol. 164; p. 226.
Fluid-meter. A. L. Hansen. No. 998,089; July 18; Sp. p. 3234; Gaz. vol. 168; p. 585.
Fluid-meter. E. P. Coleman. No. 1,010,400; Nov. 28; Sp. p. 6027; Gaz. vol. 172; p. 1068.
Fluid operated and operating device, Rotary. A. B. Calkins. No. 993,648; May 30; Sp. p. 6053; Gaz. vol. 166; p. 1099.
Fluid-operated engine. B. V. Nordberg. No. 998,032; July 18; Sp. p. 3104; Gaz. vol. 168; p. 565.
Fluid-pressure apparatus. T. and W. Moss. No. 998,376; July 18; Sp. p. 3884; Gaz. vol. 168; p. 689.
Fluid-pressure, Apparatus for supplying. H. H. Cutler. No. 1,012,821; Dec. 26; Sp. p. 5392; Gaz. vol. 173; p. 957.
Fluid-pressure brake. W. V. Turner. No. 988,604; Apr. 4; Sp. p. 679; Gaz. vol. 165; p. 108.
Fluid-pressure brake. W. Phillips. No. 991,538; May 9; Sp. p. 1527; Gaz. vol. 166; p. 284.
Fluid-pressure brake. W. V. Turner. No. 994,220; June 6; Sp. p. 249; Gaz. vol. 167; p. 43.
Fluid-pressure brake. W. V. Turner. No. 1,004,111; Sept. 26; Sp. p. 4270; Gaz. vol. 170; p. 761.
Fluid-pressure brake. W. V. Turner. No. 1,012,759; Dec. 26; Sp. p. 5218; Gaz. vol. 173; p. 935.
Fluid-pressure control. F. E. Martin. No. 1,004,541; Sept. 26; Sp. p. 5155; Gaz. vol. 170; p. 906.
Fluid-pressure engine. G. Cassady. No. 991,699; May 9; Sp. p. 1891; Gaz. vol. 166; p. 341.
Fluid-pressure engine. A. A. Ball, Jr. No. 996,900; July 4; Sp. p. 621; Gaz. vol. 168; p. 102.
Fluid-pressure engine, pump, exhauster, or compressor. W. Reavell and E. W. Jones. No. 1,006,980; Oct. 24; Sp. p. 5335; Gaz. vol. 171; p. 936.
Fluid-pressure gage. J. Shebol and W. F. Albrecht. No. 1,002,877; Sept. 12; Sp. p. 1563; Gaz. vol. 170; p. 272.
Fluid-pressure governor. M. J. Weber. No. 983,101; Jan. 31; Sp. p. 6424; Gaz. vol. 162; p. 1116.
Fluid-pressure governor. H. W. Cheney. No. 1,011,918; Dec. 19; Sp. p. 3422; Gaz. vol. 173; p. 600.
Fluid-pressure motor. A. de Geofroy. No. 997,802; July 11; Sp. p. 2583; Gaz. vol. 168; p. 443.
Fluid-pressure reducer. T. O. Perry. No. 1,012,701; Dec. 26; Sp. p. 5105; Gaz. vol. 173; p. 915.
Fluid-pressure regulator. C. G. Koppitz. No. 994,167; June 6; Sp. p. 129; Gaz. vol. 167; p. 23.
Fluid-pressure regulator. A. Gloeckler. No. 1,000,729; Aug. 15; Sp. p. 3263; Gaz. vol. 169; p. 590.
Fluid-pressure regulator. W. A. Kitts, Jr. No. 1,007,451; Oct. 31; Sp. p. 6370; Gaz. vol. 171; p. 1157.
Fluid-regulator, Pressure-controlled. E. P. Noyes. No. 991,229; May 2; Sp. p. 849; Gaz. vol. 166; p. 144.
Fluid-transmitter, Rotary. P. English. No. 1,007,933; Nov. 7; Sp. p. 648; Gaz. vol. 172; p. 100.
Fluids, Apparatus for registering the flow of. A. J. Diescher. No. 986,048; Mar. 7; Sp. p. 628; Gaz. vol. 164; p. 101.
Fluids, Electrically decomposing. W. H. Cone. No. 1,011,413; Dec. 12; Sp. p. 2276; Gaz. vol. 173; p. 388.
Fluids, Method and apparatus for determining the amount of impurities in. W. P. Digby and C. W. V. Biggs. No. 993,586; May 30; Sp. p. 5912; Gaz. vol. 166; p. 1077.
Flume. W. M. Reynolds. No. 985,937; Mar. 7; Sp. p. 389; Gaz. vol. 164; p. 61.
Flume. W. M. Reynolds. No. 985,938; Mar. 7; Sp. p. 391; Gaz. vol. 164; p. 62.
Flume. W. M. Reynolds. No. 986,025; Mar. 7; Sp. p. 583; Gaz. vol. 164; p. 93.
Flume. G. L. Hess. No. 1,008,466; Nov. 14; Sp. p. 1914; Gaz. vol. 172; p. 327.
Flume coupling, Metal-. P. E. Newcomb. No. 996,938; July 4; Sp. p. 708; Gaz. vol. 168; p. 115.
Flume-gate. E. O. Thomason. No. 992,293; May 16; Sp. p. 3138; Gaz. vol. 166; p. 571.
Flume-gate. G. E. Kellar. No. 999,457; Aug. 1; Sp. p. 519; Gaz. vol. 169; p. 91.
Flume or culvert. A. Reuterdahl. No. 1,010,074; Nov. 28; Sp. p. 5366; Gaz. vol. 172; p. 962.
Flume, Sheet-metal. C. A. Foster. No. 1,010,419; Dec. 5; Sp. p. 32; Gaz. vol. 173; p. 7.
Fluoroscope. C. E. Campbell. No. 984,520; Feb. 14; Sp. p. 2743; Gaz. vol. 163; p. 458.
Flush attachment-plug receptacle. C. D. Platt. No. 1,012,150; Dec. 19; Sp. p. 3948; Gaz. vol. 173; p. 682.
Flush-receptacle. W. J. Newton. No. 988,018; Mar. 28; Sp. p. 4845; Gaz. vol. 164; p. 861.
Flush-tank. S. A. Eyman. No. 980,766; Jan. 3; Sp. p. 1258; Gaz. vol. 162; p. 202.
Flush-tank. J. Kelly. No. 997,560; July 11; Sp. p. 1991; Gaz. vol. 168; p. 356.
Flush-tank and bowl, Combined. J. W. Fennel. No. 1,009,231; Nov. 21; Sp. p. 3589; Gaz. vol. 172; p. 627.
Flushing apparatus. E. L. Thurston. No. 988,522; Apr. 4; Sp. p. 498; Gaz. vol. 165; p. 79.
Flushing apparatus. J. E. Furlong. No. 989,496; Apr. 11; Sp. p. 2534; Gaz. vol. 165; p. 429.
Flushing apparatus. L. Simmons. No. 1,008,928; Nov. 14; Sp. p. 2887; Gaz. vol. 172; p. 485.
Flushing apparatus. W. Guyton. (Reissue.) No. 13,330; Dec. 5; Sp. p. 1627; Gaz. vol. 173; p. 258.
Flushing apparatus, Catch-basin-. M. H. Anderson. No. 999,140; July 25; Sp. p. 5542; Gaz. vol. 168; p. 985.
Flushing apparatus for sewage systems, Automatic. J. Scott. No. 988,826; Apr. 4; Sp. p. 1141; Gaz. vol. 165; p. 182.
Flushing apparatus, Siphon. J. J. Meyer. No. 1,009,544; Nov. 21; Sp. p. 4286; Gaz. vol. 172; p. 738.
Flushing apparatus, Street-. T. B. Jackson. No. 1,006,754; Oct. 24; Sp. p. 4823; Gaz. vol. 171; p. 858.
Flushing apparatus, Water-closet-. R. Stickdorn. No. 985,952; Mar. 7; Sp. p. 416; Gaz. vol. 164; p. 66.
Flushing machine, Street-. J. I. Brorby. No. 987,545; Mar. 21; Sp. p. 3746; Gaz. vol. 164; p. 669.
Flushing mechanism, Closet-. T. H. Parker. No. 995,555; June 20; Sp. p. 3179; Gaz. vol. 167; p. 565.
Flushing mechanism for water-closet bowls. B. Bensen. No. 1,004,349; Sept. 26; Sp. p. 4756; Gaz. vol. 170; p. 841.
Flushing mechanism, Tank-. G. G. Passaro. No. 1,000,437; Aug. 15; Sp. p. 2612; Gaz. vol. 169; p. 486.
Flushing-tank. S. E. Cook. No. 985,782; Mar. 7; Sp. p. 28; Gaz. vol. 164; p. 7.
Flushing-tank. R. G. Elliott. No. 986,150; Mar. 7; Sp. p. 814; Gaz. vol. 164; p. 132.
Flushing-tank. E. Kersey. No. 1,004,576; Oct. 3; Sp. p. 58; Gaz. vol. 171; p. 12.
Flushing-tank. W. G. Stewart. No. 1,004,707; Oct. 3; Sp. p. 355; Gaz. vol. 171; p. 58.
Flushing-tank. J. L. Fruin. No. 1,005,189; Oct. 10; Sp. p. 1319; Gaz. vol. 171; p. 245.
Flushing-tank for closets. S. Fürst and G. Bankó. No. 1,000,728; Aug. 15; Sp. p. 3261; Gaz. vol. 169; p. 590.
Flushing tanks, Operating mechanism for water-closet-. C. Pfau. No. 989,042; Apr. 11; Sp. p. 1576; Gaz. vol. 165; p. 276.
Flushometer. W. H. Bowman. No. 988,623; Apr. 4; Sp. p. 722; Gaz. vol. 165; p. 114.
Flushometer. J. F. Thorsk. No. 993,912; May 30; Sp. p. 6598; Gaz. vol. 166; p. 1189.
Flute attachment. P. Melfi. No. 1,013,037; Dec. 26; Sp. p. 5884; Gaz. vol. 173; p. 1029.
Fob. S. O. Bigney. No. 1,001,187; Aug. 22; Sp. p. 4282; Gaz. vol. 169; p. 781.
Fob attachment, Safety. C. H. Allen. No. 984,339; Feb. 14; Sp. p. 2359; Gaz. vol. 163; p. 399.
Fob-chain, bracelet, &c., and making same. G. H. Berthold. No. 999,146; July 25; Sp. p. 5552; Gaz. vol. 168; p. 987.
Focus-finder. G. Dietz. No. 997,377; July 11; Sp. p. 1640; Gaz. vol. 168; p. 297.
Fodder-box. T. H. Körner. No. 994,706; June 6; Sp. p. 1285; Gaz. vol. 167; p. 210.
Fodder-cakes, Manufacturing. E. Würl. No. 1,007,622; Oct. 31; Sp. p. 6750; Gaz. vol. 171; p. 1214.
Fodder-cutter. J. W. Halstead. No. 993,243; May 23; Sp. p. 5169; Gaz. vol. 166; p. 928.
Fodder from brewery-waste, Apparatus for manufacturing. R. Meister. No. 991,870; May 9; Sp. p. 2221; Gaz. vol. 166; p. 397.
Fodder-machine. J. A. Roser. No. 1,003,803; Sept. 19; Sp. p. 3517; Gaz. vol. 170; p. 626.
Fodder-press. A. F. Meierant. No. 1,005,994; Oct. 17; Sp. p. 3128; Gaz. vol. 171; p. 562.
Fodder-tie. L. Cobb. No. 983,686; Feb. 7; Sp. p. 932; Gaz. vol. 163; p. 148.
Fogs, Method of and apparatus for lifting. F. J. Drake. No. 990,121; Apr. 18; Sp. p. 3900; Gaz. vol. 165; p. 674.
Foil tube, Collapsible. A. Albright, Jr. No. 984,636; Feb. 21; Sp. p. 3017; Gaz. vol. 163; p. 534.
Foldable chair. E. L. Kunz. No. 999,043; July 25; Sp. p. 5376; Gaz. vol. 168; p. 956.
Folder. J. P. Weis and L. Krug. No. 1,003,834; Sept. 19; Sp. p. 3572; Gaz. vol. 170; p. 636.
Folding and wrapping machine. S. C. Cox. No. 1,000,996; Aug. 22; Sp. p. 3873; Gaz. vol. 169; p. 717.
Folding box. S. Bachmann. No. 987,280; Mar. 21; Sp. p. 3220; Gaz. vol. 164; p. 581.
Folding box. J. R. Myers. No. 988,015; Mar. 28; Sp. p. 4832; Gaz. vol. 164; p. 860.
Folding box. T. Bodnar. No. 988,072; Mar. 28; Sp. p. 4959; Gaz. vol. 164; p. 879.

Folding box. L. W. Draper. No. 991,052; May 2; Sp. p. 462; Gaz. vol. 166; p. 80.
Folding box. J. A. Wagnitz. No. 993,919; May 30; Sp. p. 6608; Gaz. vol. 166; p. 1191.
Folding box. C. A. Chase and H. A. Lewine. No. 997,116; July 4; Sp. p. 1092; Gaz. vol. 168; p. 177.
Folding box. C. H. Goodyear. No. 998,497; July 18; Sp. p. 4118; Gaz. vol. 168; p. 730.
Folding box. J. L. Clark. No. 999,207; Aug. 1; Sp. p. 31; Gaz. vol. 169; p. 7.
Folding box. O. H. Holdridge. No. 999,224; Aug. 1; Sp. p. 65; Gaz. vol. 169; p. 13.
Folding box. H. E. Steffen. No. 1,001,781; Aug. 29; Sp. p. 5513; Gaz. vol. 169; p. 1013.
Folding box. J. G. Reber. No. 1,003,510; Sept. 19; Sp. p. 2875; Gaz. vol. 170; p. 525.
Folding box. S. Sugarman. No. 1,009,804; Nov. 28; Sp. p. 4805; Gaz. vol. 172; p. 870.
Folding box and crate. J. Biro. No. 997,739; July 11; Sp. p. 2415; Gaz. vol. 168; p. 421.
Folding box and crate. G. W. Erhart. No. 999,020; July 25; Sp. p. 5321; Gaz. vol. 168; p. 947.
Folding box and crate. J. J. Taylor, 2d. No. 1,003,217; Sept. 12; Sp. p. 2272; Gaz. vol. 170; p. 391.
Folding box, Novelty. B. Hordich. No. 997,063; July 4; Sp. p. 998; Gaz. vol. 168; p. 160.
Folding box with handle. J. H. Cowlishaw. No. 1,011,752; Dec. 12; Sp. p. 3042; Gaz. vol. 173; p. 508.
Folding brace. F. D. Turner and N. D. Corser. No. 1,006,316; Oct. 17; Sp. p. 3862; Gaz. vol. 171; p. 675.
Folding case. L. Hauser. No. 1,005,968; Oct. 17; Sp. p. 3079; Gaz. vol. 171; p. 553.
Folding chair. S. G. Krile. No. 984,939; Feb. 21; Sp. p. 3627; Gaz. vol. 163; p. 640.
Folding chair. C. E. Heckman. No. 990,734; Apr. 25; Sp. p. 5321; Gaz. vol. 165; p. 918.
Folding chair. J. M. Doehrer. No. 991,202; May 2; Sp. p. 797; Gaz. vol. 166; p. 136.
Folding chair. E. H. H. Ashton. No. 993,634; May 30; Sp. p. 6018; Gaz. vol. 166; p. 1094.
Folding chair. N. Fryman. No. 1,001,193; Aug. 22; Sp. p. 4294; Gaz. vol. 169; p. 783.
Folding chair. H. L. Adzit and P. Lindquist. No. 1,004,955; Oct. 3; Sp. p. 875; Gaz. vol. 171; p. 143.
Folding cup or box. C. T. Bloomer. No. 1,009,463; Nov. 21; Sp. p. 4118; Gaz. vol. 172; p. 710.
Folding-machine. S. Wheeler. No. 980,373; Jan. 3; Sp. p. 390; Gaz. vol. 162; p. 69.
Folding-machine. H. B. Harrison. No. 997,998; July 18; Sp. p. 3021; Gaz. vol. 168; p. 552.
Folding mechanism. O. Roesen. No. 981,882; Jan. 17; Sp. p. 3793; Gaz. vol. 162; p. 641.
Folding rack. J. Kohn. No. 1,008,477; Nov. 14; Sp. p. 1934; Gaz. vol. 172; p. 331.
Folding screen. C. Crumpton. No. 990,516; Apr. 25; Sp. p. 4853; Gaz. vol. 165; p. 846.
Folding screen. H. A. Steinmetz. No. 991,662; May 9; Sp. p. 1808; Gaz. vol. 166; p. 328.
Folding stand. R. L. Cooley. No. 987,113; Mar. 21; Sp. p. 2819; Gaz. vol. 164; p. 519.
Folding stand. B. E. Walberg. No. 1,006,155; Oct. 17; Sp. p. 3486; Gaz. vol. 171; p. 618.
Folding stand. E. N. Humphrey. No. 1,008,545; Nov. 14; Sp. p. 2073; Gaz. vol. 172; p. 355.
Folding table. C. T. Ridgely. No. 981,114; Jan. 10; Sp. p. 2146; Gaz. vol. 162; p. 354.
Folding table. J. A. Brown. No. 983,674; Feb. 7; Sp. p. 908; Gaz. vol. 163; p. 144.
Folding table. J. W. Bereman. No. 984,529; Feb. 21; Sp. p. 2785; Gaz. vol. 163; p. 498.
Folding table. K. G. Johanson. No. 987,236; Mar. 21; Sp. p. 3122; Gaz. vol. 164; p. 565.
Folding table. N. Schumacher. No. 989,813; Apr. 18; Sp. p. 3270; Gaz. vol. 165; p. 571.
Folding table. C. E. Quinlan. No. 991,644; May 9; Sp. p. 1757; Gaz. vol. 166; p. 322.
Folding table. C. L. Craig. No. 996,908; July 4; Sp. p. 646; Gaz. vol. 168; p. 105.
Folding table. I. Moraff. No. 997,079; July 4; Sp. p. 1028; Gaz. vol. 168; p. 165.
Folding, wrapping, and addressing machine. W. E. Crane. No. 995,327; June 13; Sp. p. 2637; Gaz. vol. 167; p. 456.
Food and oil from cotton-seed, Preparing stock. W. A. Willis and J. H. Beland. No. 994,088; May 30; Sp. p. 6964; Gaz. vol. 166; p. 1249.
Food, Article of. E. W. Anderson. No. 1,000,357; Aug. 15; Sp. p. 2429; Gaz. vol. 169; p. 457.
Food, Cattle. B. H. Bertels. No. 989,478; Apr. 11; Sp. p. 2503; Gaz. vol. 165; p. 424.
Food-chopper. J. C. Steiner. No. 1,009,596; Nov. 21; Sp. p. 4376; Gaz. vol. 172; p. 754.
Food-choppers, Bone-sawing machine for. E. Back. No. 984,413; Feb. 14; Sp. p. 2496; Gaz. vol. 163; p. 423.
Food compound. J. H. Block. No. 987,849; Mar. 28; Sp. p. 4412; Gaz. vol. 164; p. 803.
Food compound. J. H. Kellogg. No. 1,001,044; Aug. 22; Sp. p. 3995; Gaz. vol. 169; p. 735.
Food compound. J. H. Kellogg. No. 1,001,045; Aug. 22; Sp. p. 3996; Gaz. vol. 169; p. 735.
Food compound. J. H. Kellogg. No. 1,001,149; Aug. 22; Sp. p. 4210; Gaz. vol. 169; p. 770.
Food compound. G. P. P. Nicolaou. No. 1,012,415; Dec. 19; Sp. p. 4505; Gaz. vol. 173; p. 771.
Food compounds, Making fatty. J. H. Filbert. No. 995,777; June 20; Sp. p. 3690; Gaz. vol. 167; p. 644.
Food for diabetics. E. Lampé. No. 980,292; Jan. 3; Sp. p. 212; Gaz. vol. 162; p. 41.
Food from cactus, Making stock. J. H. Glazier. No. 987,062; Mar. 14; Sp. p. 2729; Gaz. vol. 164; p. 472.
Food from cereals, Manufacture of. H. D. Perky. No. 987,088; Mar. 14; Sp. p. 2772; Gaz. vol. 164; p. 480.
Food, Machine for manufacturing grain into form for. H. D. Perky. No. 989,999; Apr. 18; Sp. p. 3669; Gaz. vol. 165; p. 635.
Food, Making animal. R. Stock. No. 991,178; May 2; Sp. p. 745; Gaz. vol. 166; p. 126.
Food, Making cattle. J. J. A. Crolbois. No. 1,001,253; Aug. 22; Sp. p. 4416; Gaz. vol. 169; p. 802.
Food-mold. S. B. Ljutica. No. 987,470; Mar. 21; Sp. p. 3617; Gaz. vol. 164; p. 644.
Food-molder. A. P. Bodenstein. No. 996,449; June 27; Sp. p. 5190; Gaz. vol. 167; p. 909.
Food obtained from whey. L. C. Merrell. No. 985,271; Feb. 28; Sp. p. 4373; Gaz. vol. 163; p. 788.
Food product. J. H. Kellogg. No. 1,001,150; Aug. 22; Sp. p. 4211; Gaz. vol. 169; p. 770.
Food product and preparing the same, Cranberry. E. W. Cooke. No. 984,749; Feb. 21; Sp. p. 3259; Gaz. vol. 163; p. 576.
Food product, Forming a. J. K. George. No. 981,634; Jan. 17; Sp. p. 3278; Gaz. vol. 162; p. 556.
Food product, Preserved. C. Ellis. No. 987,868; Mar. 28; Sp. p. 4457; Gaz. vol. 164; p. 810.
Food products, Apparatus for curing. C. B. Trescott. No. 1,010,327; Nov. 28; Sp. p. 5865; Gaz. vol. 172; p. 1045.
Food products, Apparatus for preparing. T. Edwards. No. 988,258; Mar. 28; Sp. p. 5306; Gaz. vol. 164; p. 939.
Food products, Making. A. S. McKenzie. No. 994,178; June 6; Sp. p. 154; Gaz. vol. 167; p. 27.
Food products, Preparing. T. Edwards. No. 1,001,375; Aug. 22; Sp. p. 4692; Gaz. vol. 169; p. 846.
Foods for the market, Preparation of. J. C. Kniss. No. 1,008,920; Nov. 14; Sp. p. 2873; Gaz. vol. 172; p. 483.
Foods, Machine for impregnating stock. J. E. J. Goodlett. No. 981,549; Jan. 10; Sp. p. 3098; Gaz. vol. 162; p. 505.
Foods, Making or mixing stock. J. E. J. Goodlett. No. 1,005,536; Oct. 10; Sp. p. 2096; Gaz. vol. 171; p. 369.
Foot, Apparatus for determining the shape of a. W. Däuker. No. 996,910; July 4; Sp. p. 649; Gaz. vol. 168; p. 105.
Foot-arch support. S. Schwarzschild. No. 999,524; Aug. 1; Sp. p. 656; Gaz. vol. 169; p. 113.
Foot, Artificial. H. W. Karn. No. 981,090; Jan. 10; Sp. p. 2090; Gaz. vol. 162; p. 345.
Foot-ball. J. Gamble. No. 985,893; Mar. 7; Sp. p. 293; Gaz. vol. 164; p. 47.
Foot-ball. G. L. Pierce. No. 1,002,928; Sept. 12; Sp. p. 1687; Gaz. vol. 170; p. 291.
Foot-covering. H. P. Merrick. No. 1,009,772; Nov. 28; Sp. p. 4744; Gaz. vol. 172; p. 859.
Foot, Device or appliance for treating or curing deformations of the. E. W. Salt. No. 1,012,017; Dec. 19; Sp. p. 3647; Gaz. vol. 173; p. 636.
Foot glove-brace. H. Fischer. No. 982,664; Jan. 24; Sp. p. 5455; Gaz. vol. 162; p. 941.
Foot-guard. S. K. Dunkle. No. 994,134; June 6; Sp. p. 64; Gaz. vol. 167; p. 13.
Foot-protector. J. L. Thornbury. No. 1,000,643; Aug. 15; Sp. p. 3094; Gaz. vol. 169; p. 561.
Foot-protector. J. C. Watson. No. 1,003,077; Sept. 12; Sp. p. 1963; Gaz. vol. 170; p. 340.
Foot-warmer, Electric. S. Ballard. No. 995,213; June 13; Sp. p. 2412; Gaz. vol. 167; p. 418.
Foot wearing-apparel, Cushioning device for. J. S. Young. No. 986,666; Mar. 14; Sp. p. 1938; Gaz. vol. 164; p. 341.
Footwear. E. Roberts. No. 984,608; Feb. 21; Sp. p. 2956; Gaz. vol. 163; p. 525.
Footwear, Stiffening the toes and heels of. E. Liebmann. No. 986,475; Mar. 14; Sp. p. 1523; Gaz. vol. 164; p. 274.
Force-feed lubricator. H. W. Hancock. No. 1,003,254; Sept. 12; Sp. p. 2360; Gaz. vol. 170; p. 405.
Force-feed lubricator. W. Dietz. No. 1,011,331; Dec. 12; Sp. p. 2120; Gaz. vol. 173; p. 362.
Force-feed lubricator, Duplex. A. E. Schad. No. 991,547; May 9; Sp. p. 1550; Gaz. vol. 166; p. 287.
Force-feed lubricator, Fluid-operated. F. W. Edwards. No. 996,321; June 27; Sp. p. 4897; Gaz. vol. 167; p. 864.
Force, Means for neutralizing. A. B. Jones. No. 983,237; Jan. 31; Sp. p. 6685; Gaz vol. 162; p. 1161.
Forceps, Bone-. A. De Vilbiss. No. 1,002,826; Sept. 12; Sp. p. 1428; Gaz. vol. 170; p. 254.
Forceps, Root-. C. H. Parker. No. 996,030; June 20; Sp. p. 4206; Gaz. vol. 167; p. 731.
Forceps, Cutting-. S. J. Brandeis. No. 1,003,170; Sept. 12; Sp. p. 2176; Gaz. vol. 170; p. 373.
Foreground ray-screen. J. K. Holbrook. No. 988,710; Apr. 4; Sp. p. 915; Gaz. vol. 165; p. 145.
Forge, Blacksmith-. G. F. Reinhard. No. 995,182; June 13; Sp. p. 2362; Gaz. vol. 167; p. 409.
Forge-feeding mechanism. H. C. H. Mustad. No. 1,010,515; Dec. 5; Sp. p. 263; Gaz. vol. 173; p. 41.

Alphabetical list of inventions—Continued.

Forge, Oil-burning blacksmith's. J. M. Regan. No. 1,004,200; Sept. 26; Sp. p. 4475; Gaz. vol. 170; p. 792.
Forges, Overdraft-blast for. J. Geist. No. 999,985; Aug. 8; Sp. p. 1585; Gaz. vol. 169; p. 299.
Forging axles and similar articles, Apparatus for. G. G. Thorp and E. E. Slick. No. 999,276; Aug. 1; Sp. p. 157; Gaz. vol. 169; p. 30.
Forging-die. W. S. Thomson. No. 1,000,050; Aug. 8; Sp. p. 1717; Gaz. vol. 169; p. 321.
Forging-machine. C. E. Reed. No. 984,851; Feb. 21; Sp. p. 3456; Gaz. vol. 163; p. 610.
Forging-machine. H. Lichteiker. No. 998,854; July 25; Sp. p. 4936; Gaz. vol. 168; p. 888.
Forging machine, Automatic tool-. L. H. Kunkle. No. 999,661; Aug. 1; Sp. p. 913; Gaz. vol. 169; p. 159.
Forging metal, Roll-. D. Maxwell. No. 984,283; Feb. 14; Sp. p. 2253; Gaz. vol. 163; p. 381.
Forging of wheels of iron or steel, Mechanical. J. Girlot. No. 983,042; Jan. 31; Sp. p. 6308; Gaz. vol. 162; p. 1097.
Forging-press. F. Killefer. No. 992,361; May 16; Sp. p. 3314; Gaz. vol. 166; p. 596.
Forging-press. F. I. Ellis and E. J. McIlvried. No. 1,002,571; Sept. 5; Sp. p. 872; Gaz. vol. 170; p. 129.
Forgings-handling apparatus. R. F. Devine. No. 980,216; Jan. 3; Sp. p. 80; Gaz. vol. 162; p. 15.
Fork: *See* Bone-fork; Cushion-fork; Detachable-tooth fork; Game-fork; Hay-fork; Hay-tedder fork; Hay-tedder reversible fork; Manure-fork; Stacker-fork; Torpedo-fork.
Fork. E. C. Haugland. No. 983,710; Feb. 7; Sp. p. 976; Gaz. vol. 163; p. 155.
Fork. J. D. Wall. No. 992,394; May 16; Sp. p. 3378; Gaz. vol. 166; p. 608.
Fork for eating corn on the cob. A. M. Latham. No. 1,002,998; Sept. 12; Sp. p. 1818; Gaz. vol. 170; p. 314.
Fork-handle, Auxiliary. H. C. Langlois. No. 982,145; Jan. 17; Sp. p. 4373; Gaz. vol. 162; p. 731.
Fork-tripping means, Automatic. S. W. Badman. No. 985,242; Feb. 28; Sp. p. 4306; Gaz. vol. 163; p. 778.
Forks, Band-cutter attachment for. H. Schwandt. No. 998,407; July 18; Sp. p. 3949; Gaz. vol. 168; p. 700.
Form, Adjustable dress-. S. M. Moschcowitz. No. 989,630; Apr. 18; Sp. p. 2873; Gaz. vol. 165; p. 508.
Form adjustment, Dress-. J. Rae. No. 991,242; May 2; Sp. p. 886; Gaz. vol. 166; p. 150.
Form and corset-cover, Combined bust-. L. E. Morris. No. 1,004,893; Oct. 3; Sp. p. 764; Gaz. vol. 171; p. 122.
Form, Collapsible. P. Zucco. No. 980,389; Jan. 3; Sp. p. 429; Gaz. vol. 162; p. 74.
Form, Dress-. J. V. Kearns. No. 991,210; May 2; Sp. p. 818; Gaz. vol. 166; p. 139.
Form, Dress-. J. Rae. No. 991,241; May 2; Sp. p. 878; Gaz. vol. 166; p. 149.
Form, Dress-. J. Rae. No. 991,455; May 2; Sp. p. 1334; Gaz. vol. 166; p. 223.
Form, Dress-. E. M. D. Landenberger. No. 1,012,373; Dec. 19; Sp. p. 4425; Gaz. vol. 173; p. 757.
Form, Dressmaker's adjustable. C. H. Martin. No. 988,480; Apr. 4; Sp. p. 407; Gaz. vol. 165; p. 66.
Form for measuring dress-skirts. E. W. Severe. No. 1,000,698; Aug. 15; Sp. p. 3209; Gaz. vol. 169; p. 580.
Form, Garment-. E. Levin. No. 998,187; July 18; Sp. p. 3436; Gaz. vol. 168; p. 619.
Form, Garment-. E. Levin. No. 998,188; July 18; Sp. p. 3438; Gaz. vol. 168; p. 620.
Form, Garment-. E. T. Palmenberg and F. W. Kreusch. No. 1,001,434; Aug. 22; Sp. p. 4802; Gaz. vol. 169; p. 865.
Form, Lady's folding garment-. B. Cahn. No. 1,000,712; Aug. 15; Sp. p. 3231; Gaz. vol. 169; p. 584.
Form, Packing-. P. A. Smith. No. 993,562; May 30; Sp. p. 5868; Gaz. vol. 166; p. 1069.
Form, Stocking-drying. H. A. Quester. No. 1,002,081; Aug. 29; Sp. p. 6154; Gaz. vol. 169; p. 1113.
Forms, Making garment-. E. M. D. Landenberger. No. 1,012,565; Dec. 19; Sp. p. 4795; Gaz. vol. 173; p. 824.
Forms, Manufacturing garment-. E. Kasralowicz. No. 988,108; Mar. 28; Sp. p. 5028; Gaz. vol. 164; p. 892.
Forms of bodies, Apparatus for reproducing the. V. Storti. No. 991,386; May 2; Sp. p. 1199; Gaz. vol. 166; p. 199
Forms, Reinforcement for garment-. E. T. Palmenberg and F. W. Kreusch. No. 1,003,783; Sept. 19; Sp. p. 3484; Gaz. vol. 170; p. 620.
Forming-machine. A. C. Livermore. No. 984,681; Feb. 21; Sp. p. 3102; Gaz. vol. 163; p. 550.
Forming-machine. J. F. Costa. No. 1,004,852; Oct 3; Sp. p. 660; Gaz. vol. 171; p. 108.
Forming-press. A. N. Verdin and W. H. Kappes. No. 1,004,829; Oct. 3; Sp. p. 601; Gaz. vol. 171; p. 99.
Formaldehyde compound and making same. W. Osborne. No. 988,733; Apr. 4; Sp. p. 962; Gaz. vol. 165; p. 153.
Formates, Manufacture of. A. Wiens. No. 993,331; May 23; Sp. p. 5344; Gaz. vol. 166; p. 958.
Formation of an article and its application to another article. R. Kroedel. No. 981,200; Jan. 10; Sp. p. 2331; Gaz. vol. 162; p. 384.
Fortune-telling die. H. M. Walsh. No. 985,868; Mar. 7; Sp. p. 229; Gaz. vol. 164; p. 38.
Foundation apparatus. S. K. Smith. No. 987,266; Mar. 21; Sp. p. 3187; Gaz. vol. 164; p. 576.
Foundations for great depths, System of under-water. E. Knorre. No. 1,010,642; Dec. 5; Sp. p. 541; Gaz. vol. 173; p. 85.
Foundations, Method of and apparatus for the construction of. J. J. Bulger. No. 1,003,171; Sept. 12; Sp. p. 2179; Gaz. vol. 170; p. 373.
Foundry mold-conveyer. G. J. Leroux. No. 1,005,986; Oct. 17; Sp. p. 3112; Gaz. vol. 171; p. 559.
Foundry-shaper, Draw-cut. M. and H. E. Morton. No. 983,748; Feb. 7; Sp. p. 1053; Gaz. vol. 163; p. 168.
Fountain: *See* Automatic fountain; Drinking-fountain; Drinking-cup fountain; Hog, sheep, and poultry fountain; Ink-fountain; Poultry-fountain; Water-fountain.
Fountain-comb. G. M. Charles. No. 1,004,991; Oct. 3; Sp. p. 932; Gaz. vol. 171; p. 155.
Fountain-comb. G. M. Charles. No. 1,005,412; Oct. 10; Sp. p. 1828; Gaz. vol. 171; p. 325.
4-metachlorophenyl-amino-1-anthra-n-methylpyridon. O. Unger and P. Thomaschewski. No. 995,306; June 13; Sp. p. 2597; Gaz. vol. 167; p. 450.
Fowls for food, Preparing killed. A. R. Marley and E. H. Little. No. 1,011,131; Dec. 5; Sp. p. 1611; Gaz. vol. 173; p. 255.
Fowls, Machine for picking feathers from. C. W. Smith. No. 1,006,304; Oct. 17; Sp. p. 3832; Gaz. vol. 171; p. 671.
Fragile articles, Container for. A. H. Stevenson. No. 992,997; May 23; Sp. p. 4649; Gaz. vol. 166; p. 848.
Frame: *See* Automobile and like frame; Bag-frame; Basket-bib frame; Bed-frame; Bed-spring frame; Belt-stretching frame; Blackboard-frame; Broiling-frame; Building-frame; Car-frame; Car-roof frame; Car-truck side frame; Clothes-drying frame; Creel-frame; Cultivator-frame; Cycle-frame; Display-frame; Doll-frame; Door-frame; Dress-frame; Drill-frame; Drying and stretching frame; Electrode-frame; Embroidery-frame; Engine-frame; Fireproof window-frame; Flier-frame; Girder-frame; Glazed frame; Grubbing-frame; Hay-curing frame; Heddle-frame; Hosiery-frame; Ice-cream-freezer frame; Lantern-frame; Loom harness-frame; Magnet-frame; Mattress-frame; Photographic-printing frame; Picture-frame; Plow-frame; Printing-frame; Quilting-frame; Reinforcing-frame; Roller-frame; Sash-frame; Saw-frame; Saw-table frame; Screen-frame; Sheet-metal frame; Shelf-frame; Sign and picture frame; Slubbing or roving frame; Spinning-frame; Spring-frame; Stretching and drying frame; Supporting-frame; Tambour-frame; Tilling-machine frame; Truck-frame; Truck side frame; Vehicle-frame; Ventilator-frame; Winding-frame; Window-frame; Wire frame; X-ray frame.
Frame. F. Stead. No. 983,846; Feb. 7; Sp. p. 1265; Gaz. vol. 163; p. 203.
Frame attachment, Trial-. G. A. Griffin. No. 1,002,580; Sept. 5; Sp. p. 893; Gaz. vol. 170; p. 132.
Frame-bodies, Machine for making. J. Mueller. No. 981,215; Jan. 10; Sp. p. 2358; Gaz. vol. 162; p. 389.
Frame clip, Metallic-. W. J. Dunham. No. 1,000,160; Aug. 8; Sp. p. 2000; Gaz. vol. 169; p. 358.
Frame construction. H. J. Casanova. No. 995,437; June 20; Sp. p. 2928; Gaz. vol. 167; p. 523.
Frame construction, Side-. O. S. Pulliam. No. 987,013; Mar. 14; Sp. p. 2638; Gaz. vol. 164; p. 456.
Frame for supporting coated articles. G. Russell. No. 993,110; May 23; Sp. p. 4905; Gaz. vol. 166; p. 888.
Framing-tool. J. N. Whitlock. No. 1,004,222; Sept. 26; Sp. p. 4514; Gaz. vol. 170; p. 799.
Framing-tool. H. Izard. No. 1,012,858; Dec. 26; Sp. p. 5478; Gaz. vol. 173; p. 969.
Fraud-preventing device. A. A. MacDonald. No. 1,009,078; Nov. 21; Sp. p. 3234; Gaz. vol. 172; p. 573.
Freezing-machine. E. Schaller. No. 1,009,793; Nov. 28; Sp p. 4785; Gaz. vol. 172; p. 866.
Freezing of water in stock-tanks, &c., Means for preventing. U. G. Smith. No. 994,543; June 6; Sp. p. 922; Gaz. vol. 167; p. 152.
Freight-conveyer. G. W. Younkman. No. 999,080; July 25; Sp. p. 5442; Gaz. vol. 168; p. 968.
Freight in storage-buildings, Means for handling. E. W. Taylor. No. 1,008,218; Nov. 7; Sp. p. 1233; Gaz. vol. 172; p. 201.
Freight lowering and hoisting apparatus. J. L. Sauters. No. 982,881; Jan. 31; Sp. p. 5946; Gaz. vol. 162; p. 1043.
Freight-packing means. E. C. Zipfel. No. 1,011,702; Dec. 12; Sp. p. 2941; Gaz. vol. 173; p. 491.
Frequency-meter. A. F. Poole. No. 1,003,502; Sept. 19; Sp. p. 2856; Gaz. vol. 170; p. 522.
Friction device. P. M. Freer. No. 1,008,595; Nov. 14; Sp. p. 2194; Gaz. vol. 172; p. 374.
Friction device. P. M. Freer. No. 1,008,635; Nov. 14; Sp. p. 2296; Gaz. vol. 172; p. 388.
Friction device, Antistatic. J. J. O'Toole. No. 997,085; July 4; Sp. p. 1040; Gaz. vol. 168; p. 167.
Friction drive and brake mechanism, Combined. J. W. Green. No 989,777; Apr. 18; Sp. p. 3183; Gaz. vol. 165; p. 559.
Friction transmission mechanism. J. W. Lambert. No. 1,011,449; Dec. 12; Sp. p. 2347; Gaz. vol. 173; p. 401.
Fringe-making machine. C. A. Müller and F. Anger. No. 1,006,776; Oct. 24; Sp. p. 4873; Gaz. vol. 171; p. 866.

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Frog, Reinforced. J. B. Strong. No. 983,948; Feb. 14; Sp. p. 1509; Gaz. vol. 163; p. 266.
Frog-trap. C. M. Suck. No. 998,429; July 18; Sp. p. 3988; Gaz. vol. 168; p. 707.
Frog-trap. R. E. White. No. 1,007,758; Nov. 7; Sp. p. 237; Gaz. vol. 172; p. 38.
Frost-preventing apparatus. F. W. Krone, Jr. No. 994,412; June 6; Sp. p. 647; Gaz. vol. 167; p. 110.
Fruit and vegetable grader. H. Anstadt. No. 1,002,211; Sept. 5; Sp. p. 3; Gaz. vol. 170; p. 3.
Fruit-bag. T. J. Jackson. No. 986,573; Mar. 14; Sp. p. 1737; Gaz. vol. 164; p. 307.
Fruit-box press. G. D. Parker. No. 985,540; Feb. 28; Sp. p. 4972; Gaz. vol. 163; p. 880.
Fruit-cleaning machine. G. A. Lowry. No. 1,009,911; Nov. 28; Sp. p. 5013; Gaz. vol. 172; p. 905.
Fruit-clipper. F. M. Bonta. No. 987,095; Mar. 14; Sp. p. 2781; Gaz. vol. 164; p. 481.
Fruit cutter and pitter. J. P. Marsch. No. 1,006,491; Oct. 24; Sp. p. 4264; Gaz. vol. 171; p. 766.
Fruit-drier. P. L. Whitestine. No. 993,932; May 30; Sp. p. 6636; Gaz. vol. 166; p. 1195.
Fruit-drying apparatus. G. D. Parker. No. 995,282; June 13; Sp. p. 2550; Gaz. vol. 167; p. 442.
Fruit extract and making same. E. G. Ressencourt. No. 1,001,554; Aug. 22; Sp. p. 5019; Gaz. vol. 169; p. 905.
Fruit-gatherer. W. Y. Richardson and E. Tigerstrand. No. 999,261; Aug. 1; Sp. p. 135; Gaz. vol. 169; p. 25.
Fruit-gatherer. C. Hennessee. No. 1,005,032; Oct. 3; Sp. p. 1012; Gaz. vol. 171; p. 169.
Fruit-gatherer. G. Holdsworth. No. 1,009,246; Nov. 21, Sp. p. 3622; Gaz. vol. 172; p. 632.
Fruit, Grading and sterilizing. D. C. Lefferts. No. 985,745; Feb. 28; Sp. p. 5417; Gaz. vol. 163; p. 950.
Fruit-handling device. J. A. Warner. No. 980,371; Jan. 3; Sp. p. 385; Gaz. vol. 162; p. 68.
Fruit-handling machine. J. A. Warner. No. 980,462; Jan. 3; Sp. p. 611; Gaz. vol. 162; p. 101.
Fruit-jar. F. Brelle. No. 983,423; Feb. 7; Sp. p. 349; Gaz. vol. 163; p. 58.
Fruit-juices, Concentrating. W. B. Jackson. No. 981,860; Jan. 17; Sp. p. 3752; Gaz. vol. 162; p. 634.
Fruit-packing apparatus. E. Fagan. No. 990,717; Apr. 25; Sp. p. 5293; Gaz. vol. 165; p. 913.
Fruit-packing bench. L. Tucker and O. L. Miskell. No. 990,408; Apr. 25; Sp. p. 4583; Gaz. vol. 165; p. 807.
Fruit-packing stand. A. B. Humphrey. No. 1,010,262; Nov. 28; Sp. p. 5722; Gaz. vol. 172; p. 1023.
Fruit-picker. T. H. Heberling. No. 987,066; Mar. 14; Sp. p. 2736; Gaz. vol. 164; p. 473.
Fruit-picker. L. B. McDonald. No. 988,484; Apr. 4; Sp. p. 413; Gaz. vol. 165; p. 67.
Fruit-picker. S. L. Wiseman. No. 992,322; May 16; Sp. p. 3211; Gaz. vol. 166; p. 583.
Fruit-picker. H. A. Boss. No. 997,744; July 11; Sp. p. 2425; Gaz. vol. 168; p. 423.
Fruit-picker. T. M. McGrail and J. W. Renfro. No. 999,389; Aug. 1; Sp. p. 393; Gaz. vol. 169; p. 69.
Fruit-picker. P. Nelson. No. 1,003,492; Sept. 19; Sp. p. 2837; Gaz. vol. 170; p. 519.
Fruit-picker. J. C. Ross. No. 1,005,476; Oct. 10; Sp. p. 1972; Gaz. vol. 171; p. 348.
Fruit-picker. J. A. Pindell. No. 1,006,124; Oct. 17; Sp. p. 3414; Gaz. vol. 171; p. 606.
Fruit-picker. E. Hube. No. 1,008,470; Nov. 14; Sp. p. 1924; Gaz. vol. 172; p. 329.
Fruit-picker. P. Hennebergh. No. 1,010,629; Dec. 5; Sp. p. 516; Gaz. vol. 173; p. 80.
Fruit-picker. C. T. Bowen. No. 1,012,977; Dec. 26; Sp. p. 5762; Gaz. vol. 173; p. 1009.
Fruit-picker's receptacle. J. S. Barnett. No. 988,163; Mar. 28; Sp. p. 5125; Gaz. vol. 164; p. 909.
Fruit-preparing apparatus. D. M. Smyth. No. 981,130; Jan. 10; Sp. p. 2182; Gaz. vol. 162; p. 360.
Fruit-press, Box-nailing. J. O. Naslin. No. 983,391; Feb. 7; Sp. p. 288; Gaz. vol. 163; p. 49.
Fruit-processing apparatus. H. G. Coykendall. No. 985,979; Mar. 7; Sp. p. 486; Gaz vol. 164; p. 77.
Fruit-seeding machine. G. L. Langer. No. 991,791; May 9; Sp. p. 2049; Gaz. vol. 166; p. 369.
Fruit-separator. G. D. Parker. No. 994,654; June 6; Sp. p. 1162; Gaz. vol. 167; p. 190.
Fruit sizer or grader. G. D. Parker. No. 997,468; July 11; Sp. p. 1798; Gaz. vol. 168; p. 326.
Fruit-sizing machine. W. D. Murray. No. 1,013,092; Dec. 26; Sp. p. 5998; Gaz. vol. 173; p. 1049.
Fruit stone and core extractor. G. B. Larrick. No. 989,162; Apr. 11; Sp. p. 1833; Gaz. vol. 165; p. 318.
Fruit washing and polishing machine. J. K. Woolslair and G. A. Arndt. No. 988,529; Apr. 4; Sp. p. 509; Gaz. vol. 165; p. 81.
Fruit-washing machine. E. L. De Long. No. 983,691; Feb. 7; Sp. p. 944; Gaz. vol. 163; p. 149.
Frying-pan. W. J. Reynolds. No. 997,414; July 11; Sp. p. 1699; Gaz. vol. 168; p. 309.
Frying-pan. R. F. Simmons. No. 998,927; July 25; Sp. p. 5096; Gaz. vol. 168; p. 914.
Fuel. M. Fulton. No. 993,446; May 30; Sp. p. 5611; Gaz. vol. 166; p. 1029.
Fuel-briquet and making same. E. H. Ellis. No. 990,348; Apr. 25; Sp. p. 4437; Gaz. vol. 165; p. 785.
Fuel-briquet and making same. E. H. Ellis. No. 1,009,960; Nov. 28; Sp. p. 5119; Gaz. vol. 172; p. 922.
Fuel-briquet and making same. E. H. Ellis. No. 1,009,961; Nov. 28; Sp. p. 5120; Gaz. vol. 172; p. 923.
Fuel-economizer and smoke and spark consumer. G. Clark. No. 988,861; Apr. 4; Sp. p. 1205; Gaz. vol. 165; p. 192.
Fuel-feeding apparatus, Fine-. G. L. Swift. No. 984,715; Feb. 21; Sp. p. 3187; Gaz. vol. 163; p. 564.
Fuel-feeding apparatus, Fine-. J. A. Welton. No. 993,929; May 30; Sp. p. 6626; Gaz. vol. 166; p. 1194.
Fuel-feeding apparatus, Pulverized-. J. A. Welton. No. 993,928; May 30; Sp. p. 6624; Gaz. vol. 166; p. 1194.
Fuel-feeding device, Automatic. A. R. Seiden. No. 985,211; Feb. 28; Sp. p. 4227; Gaz. vol. 163; p. 767.
Fuel-heater. M. J. Wohl and A. A. Low. No. 1,005,395; Oct. 10; Sp. p. 1794; Gaz. vol. 171; p. 320.
Fuel-igniting device. H. Herder. No. 1,012,355; Dec. 19; Sp. p. 4390; Gaz. vol. 173; p. 752.
Fuel-press. D. C. McCan. No. 998,625; July 25; Sp. p. 4409; Gaz. vol. 168; p. 807.
Fuel-producer. W. L. Shepard and H. J. Wickham. No. 985,462; Feb. 28; Sp. p. 4801; Gaz. vol. 163; p. 853.
Fuel-saving appliance. H. F. Nehr. No. 981,673; Jan. 17; Sp. p. 3343; Gaz. vol. 162; p. 567.
Fuel-supply controller. C. W. Leitenberger. No. 990,053; Apr. 18; Sp. p. 3772; Gaz. vol. 165; p. 652.
Fuel-support. H. W. True. No. 1,002,012; Aug. 29; Sp. p. 6025; Gaz. vol. 169; p. 1090.
Fuel system, Water-controlled. H. Lemp. No. 980,297; Jan. 3; Sp. p. 218; Gaz. vol. 162; p. 42.
Fuels, Device for increasing the efficiency of. C. Magnée and E. Demeure. No. 985,188; Feb. 28; Sp. p. 4175; Gaz. vol. 163; p. 760.
Fulcrum, Forged-steel. E. S. Smith. No. 982,445; Jan. 24; Sp. p. 5024; Gaz. vol. 162; p. 868.
Fulling-machines, Throw-out device for. J. Hemmer. No. 992,770; May 23; Sp. p. 4144; Gaz. vol. 166; p. 767.
Fume-condenser. T. de Benedictis. No. 991,823; May 9; Sp. p. 2141; Gaz. vol. 166; p. 381.
Fume-condensing apparatus. W. R. Heslewood. No. 980,257; Jan. 3; Sp. p. 148; Gaz. vol. 162; p. 29.
Fume-condensing apparatus. G. C. Richards. No. 990,009; Apr. 18; Sp. p. 3685; Gaz. vol. 165; p. 638.
Fume-destroying composition. H. Sanborn. No. 1,001,992; Aug. 29; Sp. p. 5993; Gaz. vol. 169; p. 1084.
Fume-destroying composition. S. W. Young. No. 1,007,409; Oct. 31; Sp. p. 6281; Gaz. vol. 171; p. 1142.
Fume-destroying composition. S. W. Young. No. 1,011,699; Dec. 12; Sp. p. 2935; Gaz. vol. 173; p. 491.
Fumes or smoke, Treating corrosive gaseous. C. B. Sprague. No. 984,498; Feb. 14; Sp. p. 2683; Gaz. vol. 163; p. 451.
Fumigating apparatus. T. H. Hood. No. 991,310; May 2; Sp. p. 1046; Gaz. vol. 166; p. 174.
Fumigating apparatus. D. N. Calkins. No. 996,399; June 27; Sp. p. 5067; Gaz. vol. 167; p. 892.
Fumigating device, Poultry and animal. E. F. Graefe. No. 990,126; Apr. 18; Sp. p. 3915; Gaz. vol. 165; p. 675.
Fumigator. L. S. Livingstone. No. 989,019; Apr. 11; Sp. p. 1527; Gaz. vol. 165; p. 268.
Fumigator. O. W. Lee. No. 990,826; Apr. 25; Sp. p. 5517; Gaz. vol. 165; p. 950.
Fumigator. P. S. Bauer. No. 1,003,393; Sept. 12; Sp. p. 2628; Gaz. vol. 170; p. 452.
Fungicide. J. Stockhausen. No. 982,162; Jan. 17; Sp. p. 4399; Gaz. vol. 162; p. 737.
Funnel. J. Q. Adams. No. 982,757; Jan. 24; Sp. p. 5664; Gaz. vol. 162; p. 970.
Funnel. E. E. Woods. No. 985,312; Feb. 28; Sp. p. 4453; Gaz. vol. 163; p. 801.
Funnel. S. H. Michel. No. 986,301; Mar. 7; Sp. p. 1127; Gaz. vol. 164; p. 182.
Funnel. H. M. Schnarr. No. 989,300; Apr. 11; Sp. p. 2133; Gaz. vol. 165; p. 364.
Funnel. A. K. Hampel. No. 990,549; Apr. 25; Sp. p. 4912; Gaz. vol. 165; p. 857.
Funnel. C. O. Byrd. No. 1,000,150; Aug. 8; Sp. p. 1978; Gaz. vol. 169; p. 355.
Funnel and measure, Combined. L. N. Ritten. No. 987,826; Mar. 28; Sp. p. 4366; Gaz. vol. 164; p. 795.
Funnel, Automatic. J. M. Evans. No. 994,730; June 13; Sp. p. 1375; Gaz. vol. 167; p. 257.
Funnel, Collapsible. A. L. Harrington. No. 987,360; Mar 21; Sp. p. 3379; Gaz. vol. 164; p. 607.
Funnel, Collapsible straining-. A. T. Stata. No. 1,007,401; Oct. 31; Sp. p. 6262; Gaz. vol. 171; p. 1139.
Funnel for charging containers for bursting charges with fused explosives. E. Sokolowski and G. Issler. No. 1,011,511; Dec. 12; Sp. p. 2500; Gaz. vol. 173; p. 425.
Funnel-indicator. J. C. Parker. No. 994,272; June 6; Sp. p. 354; Gaz. vol. 167; p. 60.
Funnel-signal. J. Q. Adams. No. 986,535; Mar. 14; Sp. p. 1652; Gaz. vol. 164; p. 294.
Funnel, Straining-. W. S. Schuyler. No. 987,261; Mar 21; Sp. p. 3178; Gaz. vol. 164; p. 574.

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Furnace: *See* Annealing-furnace; Blast-furnace; Boiler-furnace; Busheling-furnace; Channel-furnace; Coking-furnace; Combustion-perfecting furnace; Cremation-furnace; Crucible-furnace; Downdraft-furnace; Electric furnace; Electric induction-furnace; Electric-resistance furnace; Electrical furnace; Gas-furnace; Gas-producing furnace; Glass-furnace; Heating-furnace; Hot-air furnace; Hydrocarbon-furnace; Induction-furnace; Melting-furnace; Melting and reduction furnace; Metal-heating furnace; Oil-furnace; Oil-fed furnace; Ore-roasting furnace; Pack-heating furnace; Portable furnace; Reduction-furnace; Refuse-burning furnace; Resistance-furnace; Retort-furnace; Roasting-furnace; Rotary furnace; Rotary sintering-furnace; Smelting-furnace; Smoke-consuming furnace; Smoke-preventing furnace; Traveling-grate furnace; Tungsten-furnace; Zinc-extracting furnace.
Furnace. M. Ruthenburg. No. 980,345; Jan. 3; Sp. p. 330; Gaz. vol. 162; p. 60.
Furnace. J. H. Koons. No. 980,424; Jan. 3; Sp. p. 508; Gaz. vol. 162; p. 86.
Furnace. I. Hess. No. 983,619; Feb. 7; Sp. p. 781; Gaz. vol. 163; p. 124.
Furnace. P. L. Crowe. No. 984,197; Feb. 14; Sp. p. 2029; Gaz. vol. 163; p. 349.
Furnace. J. Harrington. No. 984,910; Feb. 21; Sp. p. 3568; Gaz. vol. 163; p. 630.
Furnace. E. F. Beaumont. No. 985,128; Feb. 28; Sp. p. 4003; Gaz. vol. 163; p. 737.
Furnace. H. E. Wallis. No. 985,480; Feb. 28; Sp. p. 4845; Gaz. vol. 163; p. 860.
Furnace. R. E. Ashley. No. 985,878; Mar. 7; Sp. p. 250; Gaz. vol. 164; p. 41.
Furnace. C. Wegener. No. 986,881; Mar. 14; Sp. p. 2395; Gaz. vol. 164; p. 414.
Furnace. H. Moor. No. 986,934; Mar. 14; Sp. p. 2489; Gaz. vol. 164; p. 431.
Furnace. H. A. Poppenhusen and J. Harrington. No. 987,911; Mar. 28; Sp. p. 4574; Gaz. vol. 164; p. 824.
Furnace. H. A. Poppenhusen. No. 988,027; Mar. 28; Sp. p. 4859; Gaz. vol. 164; p. 864.
Furnace. W. McClave. No. 988,123; Mar. 28; Sp. p. 5047; Gaz. vol. 164; p. 896.
Furnace. A. Bouilly. No. 988,435; Apr. 4; Sp. p. 309; Gaz. vol. 165; p. 51.
Furnace. C. W. Thomas. No. 989,443; Apr. 11; Sp. p. 2434; Gaz. vol. 165; p. 411.
Furnace. C. F. Diller. No. 989,580; Apr. 18; Sp. p. 2766; Gaz. vol. 165; p. 491.
Furnace. H. C. Ruggles. No. 989,810; Apr. 18; Sp. p. 3263; Gaz. vol. 165; p. 570.
Furnace. J. J. West. No. 990,466; Apr. 25; Sp. p. 4706; Gaz. vol. 165; p. 827.
Furnace. W. Buchanan. No. 991,269; May 2; Sp. p. 950; Gaz. vol. 166; p. 160.
Furnace. E. P. Selden. No. 991,805; May 9; Sp. p. 2090; Gaz. vol. 166; p. 374.
Furnace. T. F. Baily. No. 991,929; May 9; Sp. p. 2352; Gaz. vol. 166; p. 418.
Furnace. W. H. Hurst. No. 992,198; May 16; Sp. p. 2895; Gaz. vol. 166; p. 539.
Furnace. F. P. Rudder. No. 993,200; May 23; Sp. p. 5080; Gaz. vol. 166; p. 916.
Furnace. J. R. Fortune. No. 994,830; June 13; Sp. p. 1618; Gaz. vol. 167; p. 291.
Furnace. D. J. Hudson. No. 996,249; June 27; Sp. p. 4718; Gaz. vol. 167; p. 839.
Furnace. W. Manhire. No. 996,868; July 4; Sp. p. 558; Gaz. vol. 168; p. 91.
Furnace. C. Carlson. No. 997,178; July 4; Sp. p. 1231; Gaz. vol. 168; p. 199.
Furnace. F. A. Daley. No. 997,604; July 11; Sp. p. 2082; Gaz. vol. 168; p. 372.
Furnace. C. W. Draper. No. 997,973, July 18; Sp. p. 2964; Gaz. vol. 168; p. 543.
Furnace. F. J. Zippler. No. 998,940; July 25; Sp. p. 5146; Gaz. vol. 168; p. 919.
Furnace. W. Scheffler. No. 999,597; Aug. 1; Sp. p. 792; Gaz. vol. 169; p. 137.
Furnace. W. H. Bailey. No. 1,002,193; Aug. 29; Sp. p. 6363; Gaz. vol. 169; p. 1149.
Furnace. S. D. Strong. No. 1,002,776; Sept. 5; Sp. p. 1322; Gaz. vol. 170; p. 199.
Furnace. J. B. and J. Pomeroy. No. 1,004,073; Sept. 26; Sp. p. 4179; Gaz. vol. 170; p. 748.
Furnace. A. Tomkins. No. 1,008,876; Nov. 14; Sp. p. 2788; Gaz. vol. 172; p. 469.
Furnace. F. Meyer and G. Harms. No. 1,011,132; Dec. 5; Sp. p. 1613; Gaz. vol. 173; p. 255.
Furnace. J. E. and H. H. Blake. No. 1,011,312; Dec. 12; Sp. p. 2069; Gaz. vol. 173; p. 354.
Furnace. W. Clerkin. No. 1,011,411; Dec. 12; Sp. p. 2269; Gaz. vol. 173; p. 387.
Furnace. M. A. Neeland. No. 1,011,476; Dec. 12; Sp. p. 2415; Gaz. vol. 173; p. 413.
Furnace. T. S. Blair, Jr. No. 1,012,236; Dec. 19; Sp. p. 4145; Gaz. vol. 173; p. 711.
Furnace air-regulating device, Oil-burning-. K. M. Dahl. No. 1,009,723; Nov. 28; Sp. p. 4637; Gaz. vol. 172; p. 842.
Furnace apparatus, Blast-. H. C. Wolle and J. V. Symons. No. 992,838; May 23; Sp. p. 4296; Gaz. vol. 166; p. 792.
Furnace-arch. F. Girtanner. No. 986,455; Mar. 14; Sp. p. 1482; Gaz. vol. 164; p. 267.
Furnace-arch. G. E. Maxlow and A. Van Vliet. No. 1,006,111; Oct. 17; Sp. p. 3367; Gaz. vol. 171; p. 601.
Furnace attachment. A. Sauer. No. 1,010,182; Nov. 28; Sp. p. 5570; Gaz. vol. 172; p. 997.
Furnace-casing. T. E. Durban. No. 997,977; July 18; Sp. p. 2970; Gaz. vol. 168; p. 545.
Furnace-casing. T. E. Durban. No. 998,079; July 18; Sp. p. 3209; Gaz. vol. 168; p. 581.
Furnace-casing. E. P. Selden. No. 998,125; July 18; Sp. p. 3318; Gaz. vol. 168; p. 598.
Furnace-casing top. W. Miller. No. 985,619; Feb. 28; Sp. p. 5133; Gaz. vol. 163; p. 907.
Furnace-charging apparatus. M. Noelle. No. 990,379; Apr. 25; Sp. p. 4506; Gaz. vol. 165; p. 796.
Furnace-charging apparatus. C. E. Bedell. No. 1,012,235; Dec. 19; Sp. p. 4142; Gaz. vol. 173; p. 711.
Furnace-charging apparatus, Blast-. J. B. McKennan. No. 980,811; Jan. 3; Sp. p. 1353; Gaz. vol. 162; p. 217.
Furnace-charging apparatus, Blast-. J. Kennedy. No. 986,009; Mar. 7; Sp. p. 550; Gaz. vol. 164; p. 87.
Furnace-charging apparatus, Blast-. J. Kennedy. No. 992,670; May 16; Sp. p. 3938; Gaz. vol. 166; p. 702.
Furnace-charging apparatus, Blast-. C. H. Wright. No. 1,002,018; Aug. 29; Sp. p. 6035; Gaz. vol. 169; p. 1092.
Furnace-charging device. J., Sr., J., Jr., J., and A. Gmeindl. No. 1,007,861; Nov. 7; Sp. p. 500; Gaz. vol. 172; p. 75.
Furnace-chimney and ventilator. C. St. John. No. 1,011,497; Dec. 12; Sp. p. 2466; Gaz. vol. 173; p. 420.
Furnace compensating device. F. Tschudy. No. 994,892; June 13; Sp. p. 1773; Gaz. vol. 167; p. 312.
Furnace-controlling device. T. P. Brown. No. 1,009,466; Nov. 21; Sp. p. 4121; Gaz. vol. 172; p. 711.
Furnace-cover attachment. D. R. Steele. No. 1,004,925; Oct. 3; Sp. p. 822; Gaz. vol. 171; p. 133.
Furnace, Delivery mechanism for a billet-heating. J. R. George. No. 997,494; July 11; Sp. p. 1852; Gaz. vol. 168; p. 334.
Furnace device. J. E. and H. H. Blake. No. 1,009,217; Nov. 21; Sp. p. 3560; Gaz. vol. 172; p. 622.
Furnace-door mounting. G. H. Cushing. No. 980,764; Jan. 3; Sp. p. 1253; Gaz. vol. 162; p. 201.
Furnace-door opener. S. Lyon. No. 1,000,274; Aug. 8; Sp. p. 2237; Gaz. vol. 169; p. 398.
Furnace-door opener and closer. T. E. Smythe. No. 1,002,088; Aug. 29; Sp. p. 6163; Gaz. vol. 169; p. 1115.
Furnace draft control. E. Webb. No. 999,926; Aug. 8; Sp. p. 1467; Gaz. vol. 169; p. 278.
Furnace-draft-operating apparatus. W. H. Schubert. No. 987,496; Mar. 21; Sp. p. 3664; Gaz. vol. 164; p. 653.
Furnace draft-regulator, Heating-. G. B. Stambaugh and P. W. Brunner. No. 983,411; Feb. 7; Sp. p. 325; Gaz. vol. 163; p. 55.
Furnace dust-allaying attachment. J. W. Heid. No. 1,006,210; Oct. 17; Sp. p. 3628; Gaz. vol. 171; p. 638.
Furnace fire-door, Boiler-. G. de Grahl. No. 980,773; Jan. 3; Sp. p. 1272; Gaz. vol. 162; p. 204.
Furnace for drying sand and crushed stone. W. D. Craven, Jr. No. 1,005,516; Oct. 10; Sp. p. 2058; Gaz. vol. 171; p. 361.
Furnace for melting metals, glass, and the like. L. L. Mount. No. 988,131; Mar. 28; Sp. p. 5062; Gaz. vol. 164; p. 899.
Furnace for metallurgical purposes. W. Rodenhauser. No. 984,970; Feb. 21; Sp. p. 3679; Gaz. vol. 163; p. 649.
Furnace for treating sulfids, phosphids, &c., in atmospheres of various gases. S. Peacock. No. 1,009,559; Nov. 21; Sp. p. 4311; Gaz. vol. 172; p. 742.
Furnace for volatilizing zinc from its ores. H. H. Hughes. No. 980,640; Jan. 3; Sp. p. 984; Gaz. vol. 162; p. 161.
Furnace-forming die. R. L. Williams. No. 981,731; Jan. 17; Sp. p. 3472; Gaz. vol. 162; p. 588.
Furnace-front, Non-heatable. W. J. Fredericks. No. 985,336; Feb. 28; Sp. p. 4497; Gaz. vol. 163; p. 810.
Furnace-grate. J. Beck. No. 984,344; Feb. 14; Sp. p. 2367; Gaz. vol. 163; p. 400.
Furnace-grate. J. and A. Niclausse. No. 990,766; Apr. 25; Sp. p. 5387; Gaz. vol. 165; p. 929.
Furnace-grate. A. F. Dawson. No. 994,063; May 30; Sp. p. 6909; Gaz. vol. 166; p. 1241.
Furnace grate, Destructor-. J. T. Fetherston. No. 1,001,010; Aug. 22; Sp. p. 3923; Gaz. vol. 169; p. 722.
Furnace-grate, Tilting. J. Anrig. No. 1,012,963; Dec. 26; Sp p. 5726; Gaz. vol. 173; p. 1005.
Furnace-heater, Electric-arc. E. A. Mathers. No. 1,002,721; Sept. 5; Sp. p. 1208; Gaz. vol. 170; p. 181.
Furnace-hood. J. C. Tremoulet. No. 1,011,675; Dec. 12; Sp. p. 2894; Gaz. vol. 173; p. 483.
Furnace-jacket. C. A. Fischer. No. 1,012,831; Dec. 26; Sp. p. 5412; Gaz. vol. 173; p. 960.
Furnace kindler, Cupola-. F. B. Rogers. No. 1,002,869; Sept. 12; Sp. p. 1546; Gaz. vol. 170; p. 269.
Furnace practice. H. M. Parson. No. 991,637; May 9; Sp. p. 1741; Gaz. vol. 166; p. 320.

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Furnace-regulator. L. P. Beech. No. 1,004,970; Oct. 3; Sp. p. 895; Gaz. vol. 171; p. 148.
Furnace-regulator. O. Bagley. No. 1,012,584; Dec. 26; Sp. p. 4851; Gaz. vol. 173; p. 874.
Furnace-roof. M. T. Goss. No. 994,383; June 6; Sp. p. 592; Gaz. vol. 167; p. 101.
Furnace-setting. P. L. Crowe. No. 984,078; Feb. 14; Sp. p. 1805; Gaz. vol. 163; p. 310.
Furnace setting, Boiler-. H. H. Tracy and H. E. Boyrie. No. 1,003,548; Sept. 19; Sp. p. 2956; Gaz. vol. 170; p. 539.
Furnace-stirring device. U. Wedge. No. 980,717; Jan. 3; Sp. p. 1166; Gaz. vol. 162; p. 186.
Furnace stove, Blast-. A. G. McKee. No. 983,633; Feb. 7; Sp. p. 686; Gaz. vol. 163; p. 129.
Furnace stoves, Closure for blast-. A. G. McKee. No. 983,632; Feb. 7; Sp. p. 805; Gaz. vol. 163; p. 129.
Furnace-walls, Means for bracing. J. Thompson. No. 990,928; May 2; Sp. p. 215; Gaz. vol. 166; p. 38.
Furnaces, Air-controller for warm-air. H. H. Calvin. No. 1,000,324; Aug. 8; Sp. p. 2340; Gaz. vol. 169; p. 414.
Furnaces and ovens, Door for metallurgical. C. N. Hooper. No. 983,494; Feb. 7; Sp. p. 505; Gaz. vol. 163; p. 81.
Furnaces and the like, Door for gas-producing. E. Hohmann. No. 980,261; Jan. 3; Sp. p. 153; Gaz. vol. 162; p. 30.
Furnaces, Cartridge for melting-. M. R. Conley. No. 984,123; Feb. 14; Sp. p. 1888; Gaz. vol. 163; p. 324.
Furnaces, Charging blast-. H. D. Williams, W. Ahlen, and V. Ross. No. 994,550; June 6; Sp. p. 933; Gaz. vol. 167; p. 154.
Furnaces, Charging electric. A. L. Robinson. No. 1,004,469; Sept. 26; Sp. p. 5016; Gaz. vol. 170; p. 882.
Furnaces, Door-frame for locomotive-boiler. G. de Grahl. No. 990,254; Apr. 25; Sp. p. 4220; Gaz. vol. 165; p. 752.
Furnaces, Heating. C. H. Köhn. No. 980,797; Jan. 3; Sp. p. 1322; Gaz. vol. 162; p. 212.
Furnaces, Heating air for metallurgical. W. G. Perkins and W. M. Barker. No. 996,132; June 27; Sp. p. 4427; Gaz. vol. 167; p. 801.
Furnaces, Ignition-arch for. W. M. Duncan. No. 1,006,368; Oct. 17; Sp. p. 3980; Gaz. vol. 171; p. 693.
Furnaces, Increasing the working factor (cos. ϕ) and stability of electric. K. Birkeland. No. 1,011,018; Dec. 5; Sp. p. 1349; Gaz. vol. 173; p. 215.
Furnaces, Means for controlling the draft of locomotive-. J. Fournia. No. 992,123; May 9; Sp. p. 2719; Gaz. vol. 166; p. 481.
Furnaces, Means for withdrawing dust and fumes from zinc or similar. E. D. Delattre. No. 993,513; May 30; Sp. p. 5757; Gaz. vol. 166; p. 1052.
Furnaces, Preheater and reducer for electric smelting-. A. Stansfield. No. 984,308; Feb. 14; Sp. p. 2300; Gaz. vol. 163; p. 389.
Furnaces, Preventing honeycombing in steam-boiler. G. M. Wolfe. No. 993,135; May 23; Sp. p. 4948; Gaz. vol. 166; p. 896.
Furnaces, Reversing-valve for regenerative. W. O. Amsler. No. 1,009,822; Nov. 28; Sp. p. 4850; Gaz. vol. 172; p. 876.
Furnaces, Sight for blast-. T. M. Cunningham. No. 1,010,120; Nov. 28; Sp. p. 5452; Gaz. vol. 172; p. 977.
Furnaces, Steam-nozzle for steam-fan. G. de Grahl. No. 982,591; Jan. 24; Sp. p. 5314; Gaz. vol. 162; p. 916.
Furnaces, Supplemental heating attachment for. J. A. Abrams. No. 1,008,512; Nov. 14; Sp. p. 2001; Gaz. vol. 172; p. 342.
Furnaces, Temperature-indicator for tempering-. M. O. Bray. No. 1,010,224; Nov. 28; Sp. p. 5649; Gaz. vol. 172; p. 1011.
Furnaces, Tilting forehearth for. T. Löhe. No. 998,787; July 25; Sp. p. 4781; Gaz. vol. 168; p. 864.
Furnaces, Twyer-sight for blast-. J. V. Symons. No. 1,005,359; Oct. 10; Sp. p. 1726; Gaz. vol. 171; p. 308.
Furnaces, Underfeed grate device for heating-. W. H. James. No. 990,815; Apr. 25; Sp. p. 5493; Gaz. vol. 165; p. 946.
Furnaces with fine fuel, Apparatus for operating. I. H. Moncrieff and M. Reid. No 1,006,259; Oct 17; Sp. p. 3732; Gaz. vol. 171; p. 656.
Furnacing, Preparing materials for. G. W. Coggeshall. No. 987,554; Mar. 21; Sp. p. 3760; Gaz. vol. 164; p. 672.
Furniture. M. Harris. No. 983,709; Feb. 7; Sp. p. 974; Gaz. vol. 163; p. 155.
Furniture. W. A. Snyder. No. 985,219; Feb. 28; Sp. p. 4250; Gaz. vol. 163; p. 770.
Furniture. L. N. Bachand. No. 993,636; May 30; Sp. p. 6022; Gaz. vol. 166; p. 1095.
Furniture, Adjustable school. P. L. Ross. No. 1,008,992; Nov. 14; Sp. p. 3043; Gaz. vol. 172; p. 506.
Furniture and door, Combined reversible wall. N. B. Douglass. No. 1,006,068; Oct. 17; Sp. p. 3282; Gaz. vol. 171; p. 587.
Furniture, Article of. J. C. Hills. No. 1,002,844; Sept. 12; Sp. p. 1469; Gaz. vol. 170; p. 261.
Furniture-clamp. D. S. Ackley. No. 987,531; Mar. 21; Sp. p. 3718; Gaz. vol. 164; p. 664.
Furniture, Composition of matter for polishing. H. Misaki. No. 1,009,547; Nov. 21; Sp. p. 4292; Gaz. vol. 172; p. 738.
Furniture construction, Metal-. A. H. Schaffert. No. 1,008,075; Nov. 7; Sp. p. 919; Gaz. vol. 172; p. 148.
Furniture, Convertible. C. B. Riddle. No. 988,212; Mar. 28; Sp. p. 5213; Gaz. vol. 164; p. 925.
Furniture, Convertible. J. L. Tandy. No. 1,007,817; Nov. 7; Sp. p. 377; Gaz. vol. 172; p. 59.
Furniture, Folding article of. W. L. Deming. No. 992,758; May 23; Sp. p. 4125; Gaz. vol. 166; p. 763.
Furniture-foot socket. O. Trinque. No. 1,000,308; Aug. 8; Sp. p. 2307; Gaz. vol. 169; p. 409.
Furniture-legs, Compound brace for. O. L. Beardsley. No. 1,008,305; Nov. 14; Sp. p. 1474; Gaz. vol. 172; p. 270.
Furniture, Metal. C. A. Linden. No. 997,567; July 11; Sp. p. 2007; Gaz. vol. 168; p. 358.
Furniture or the like, Antifriction-tip for. H. M. Alleyn. No. 995,758; June 20; Sp. p. 3648; Gaz. vol. 167; p. 637.
Furniture-spring. H. G. Price. No. 991,086; May 2; Sp. p. 535; Gaz. vol. 166; p. 93.
Furniture spring seat and back, Cane-. A. Södelmayer. No. 1,011,134; Dec. 5; Sp. p. 1615; Gaz. vol. 173; p. 256.
Furniture, Table. D. F. Oliver. No. 1,000,114; Aug. 8; Sp. p. 1906; Gaz. vol. 169; p. 344.
Furrow-covering machine. F. Bateman. No. 999,005; July 25; Sp. p. 5285; Gaz. vol. 168; p. 941.
Furrow-cutter lubricator. F. A. Waschka. No. 1,001,103; Aug. 22; Sp. p. 4127; Gaz. vol. 169; p. 756.
Furrow-guide. K. O. Berven. No. 1,000,961; Aug. 15; Sp. p. 3754; Gaz. vol. 169; p. 670.
Furrow-opener. W. Perkins. No. 988,284; Mar. 28; Sp. p. 5361; Gaz. vol. 164; p. 949.
Furrow-opener. L. T. Rasmussen. No. 988,386; Apr. 4; Sp. p. 212; Gaz. vol. 165; p. 34.
Furrow-opener. L. T. Rasmussen. No. 989,872; Apr. 18; Sp. p. 3385; Gaz. vol. 165; p. 590.
Furrow-opener. L. T. Rasmussen. No. 990,500; Apr. 25; Sp. p. 4819; Gaz. vol. 165; p. 840.
Furrow-opener, Disk. E. R. Beeman and T. Brennan, Jr. No. 1,001,920; Aug. 29; Sp. p. 5829; Gaz. vol. 169; p. 1060.
Furrow-opener, Disk. W. S. Graham. No. 1,002,207; Aug. 29; Sp. p. 6405; Gaz. vol. 169; p. 1154.
Furrow-opener, Double-disk. H. D. Hunter. No. 990,654; Apr. 25; Sp. p. 5144; Gaz. vol. 165; p. 892.
Furrow-opener, Single-disk. T. Brennan, Jr. No. 1,011,731; Dec. 12; Sp. p. 3003; Gaz. vol. 173; p. 501.
Furrow-openers, Scraper for disk. E. R. Beeman. No. 997,175; July 4; Sp. p. 1222; Gaz. vol. 168; p. 198.
Furrow-opening disks, Scraper for. G. Cast. No. 998,747; July 25; Sp. p. 4701; Gaz. vol. 168; p. 851.
Furrower. E. M. Cox and J. S. Grange. No. 989,485; Apr. 11; Sp. p. 2516; Gaz. vol. 165; p. 426.
Furs, Treating. A. S. Landau. No. 984,940; Feb. 21; Sp. p. 3629; Gaz. vol. 163; p. 640.
Fuse. R. P. Bernardini. No. 994,566; June 6; Sp. p. 970; Gaz. vol. 167; p. 160.
Fuse. A. F. Daum. No. 1,005,517; Oct. 10; Sp. p. 2060; Gaz. vol. 171; p. 362.
Fuse. A. Akin. No. 1,011,896; Dec. 19; Sp. p. 3371; Gaz. vol. 173; p. 591.
Fuse-adjusting device. U. Wilck. No. 988,750; Apr. 4; Sp. p. 990; Gaz. vol. 165; p. 157.
Fuse-adjusting key. F. Ziegenfuss. No. 1,005,762; Oct. 10; Sp. p. 2604; Gaz. vol. 171; p. 449.
Fuse and fuse-holder, Electric. F. W. Harris. No. 999,780; Aug. 8; Sp. p. 1162; Gaz. vol. 169; p. 229.
Fuse and line-disconnecting switch, Safety-. S. B. Way and J. L. Fay. No. 986,034; Mar. 7; Sp. p. 600; Gaz. vol. 164; p. 96.
Fuse-block and switch, Combined multiple. P. E. Westerdahl. No. 994,623; June 6; Sp. p. 1077; Gaz. vol. 167; p. 180.
Fuse-box. P. J. McDonald. No. 995,702; June 20; Sp. p. 3501; Gaz. vol. 167; p. 617.
Fuse-cap. C. F. Spery. No. 1,001,473; Aug. 22; Sp. p. 4863; Gaz. vol. 169; p. 877.
Fuse-case. T. E. Murray. No. 991,005; May 2; Sp. p. 376; Gaz. vol. 166; p. 64.
Fuse case, Electric-. T. E. Murray. No. 991,008; May 2; Sp. p. 381; Gaz. vol. 166; p. 65.
Fuse, Electric. T. E. Murray. No. 991,007; May 2; Sp. p. 380; Gaz. vol. 166; p. 65.
Fuse, Electric. J. A. Tornquist. No. 1,003,673; Sept. 19; Sp. p. 3235; Gaz. vol. 170; p. 583.
Fuse, Electric-circuit renewable. A. J. Volk, Jr. No. 981,038; Jan. 10; Sp. p. 1982; Gaz. vol. 162; p. 327.
Fuse, Electrical safety-. G. Müller. No. 1,011,232; Dec. 12; Sp. p. 1872; Gaz. vol. 173; p. 324.
Fuse for ordnance-shells. I. T. von Risch. No. 984,607; Feb. 21; Sp. p. 2951; Gaz. vol. 163; p. 524.
Fuse for projectiles, Time-. J. F. Meigs and R. P. Stout. No. 993,091; May 23; Sp. p. 4851; Gaz. vol. 166; p. 881.
Fuse for shells with safety device. R. Sohlman, H. Nordenfelt, and H. Morén. No. 999,268; Aug. 1; Sp. p. 145; Gaz. vol. 169; p. 27.

Alphabetical list of inventions—Continued.

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Fuse-housing. K. Wieser. No. 1,003,080; Sept. 12; Sp. p. 1968; Gaz. vol. 170; p. 341.
Fuse, Impact-. K. Wieser and W. Schwartz. No. 988,610; Apr. 4; Sp. p. 690; Gaz. vol. 165; p. 110.
Fuse, Impact-. L. Abendroth. No. 988,846; Apr. 4; Sp. p. 1177; Gaz. vol. 165; p. 188.
Fuse, Inclosed. C. R. Moellendorf. No. 982,738; Jan. 24; Sp. p. 5615; Gaz. vol. 162; p. 964.
Fuse, Inclosed. G. Wright and F. H. Weston. No. 1,009,614; Nov. 21; Sp. p. 4411; Gaz. vol. 172; p. 760.
Fuse-lighter. H. W. Fuller. No. 997,800; July 11; Sp. p. 2580; Gaz. vol. 168; p. 442.
Fuse, Mechanical time-. K. Wieser. No. 1,003,078; Sept. 12; Sp. p. 1964; Gaz. vol. 170; p. 340.
Fuse-plug. H. R. Sargent. No. 1,001,694; Aug. 29; Sp. p. 5328; Gaz. vol. 169; p. 984.
Fuse-plug, Ventilated. F. C. Curtis. No. 1,003,586; Sept. 19; Sp. p. 3058; Gaz. vol. 170; p. 551.
Fuse-protecting case. E. C. Pfeil. No. 995,174; June 13; Sp. p. 2353; Gaz. vol. 167; p. 407.
Fuse, Rechargeable safety-. H. Wallace and F. A. Swanson. No. 985,082; Feb. 21; Sp. p. 3894; Gaz. vol. 163; p. 688.
Fuse, Refillable. F. H. Kaiser and J. G. Clemens. No. 1,004,657; Oct. 3; Sp. p. 227; Gaz. vol. 171; p. 40.
Fuse, Refillable cartridge-. E. B. Mallory. No. 994,413; June 6; Sp. p. 649; Gaz. vol. 167; p. 111.
Fuse, Self-adjusting. J. O. Holton, Jr. No. 986,463; Mar. 14; Sp. p. 1495; Gaz. vol. 164; p. 270.
Fuse, Shell-. K. Völler. No. 1,000,862; Aug. 15; Sp. p. 3542; Gaz. vol. 169; p. 637.
Fuse-switch. A. L. Weekes. No. 998,435; July 18; Sp. p. 3998; Gaz. vol. 168; p. 709.
Fuse-testing device, Electric. C. W. Mitchell. No. 988,891; Apr. 4; Sp. p. 1262; Gaz. vol. 165; p. 202.
Fusee, Railway signal-. I. Niditch. No. 984,290; Feb. 14; Sp. p. 2266; Gaz. vol. 163; p. 383.
Fusee, Railway signal-. F. Dutcher. No. 999,102; July 25; Sp. p. 5477; Gaz. vol. 168; p. 975.
Fusee, Railway signal-. F. Dutcher. No. 1,009,136; Nov. 21; Sp. p. 3352; Gaz. vol. 172; p. 593.
Gaff. W. F. Werline. No. 983,102; Jan. 31; Sp. p. 6426; Gaz. vol. 162; p. 1116.
Gage: *See* Auger-gage; Boiler-gage; Boring-machine gage; Buttonhole-machine marking-gage; Carpenter's gage; Cloth-cutting gage; Depth-gage; Dimension-gage; Door-gage; Drill-gage; Drill-testing gage; Edge-gage; Float-gage; Fluid-gage; Fluid-pressure gage; Hair-cutting gage; Lathe diameter-gage; Liquid-gage; Lock-setting gage; Loom-gage; Marking-gage; Micrometer-gage; Miter-gage; Pressure-gage; Pressure-reducing gage; gage; Raker-gage; Recording and indicating gage; Saw-Pressure test-gage; Print-holding-frame gage; Punch-gage; Saw-table gage; Screw limit-gage; Sewing-machine gage; Sewing-machine work-gage; Shingling-gage; Siding-gage; Skirt-gage; Speed-gage; Stair-gage; Surface-gage; Taper-gage; Thread-gage; Track-gage; Typographical gage; Water-gage.
Gage. C. Bodmer. No. 985,389; Feb. 28; Sp. p. 4609; Gaz. vol. 163; p. 826.
Gage. W. Richardson. No. 990,502; Apr. 25; Sp. p. 4824; Gaz. vol. 165; p. 841.
Gage. H. C. Metzger. No. 994,770; June 13; Sp. p. 1478; Gaz. vol. 167; p. 271.
Gage. L. B. Minges. No. 996,503; June 27; Sp. p. 5287; Gaz. vol. 167; p. 927.
Gage. C. A. Glickert. No. 997,989; July 18; Sp. p. 3002; Gaz. vol. 168; p. 549.
Gage. N. A. Morse. No. 1,002,734; Sept. 5; Sp. p. 1245; Gaz. vol. 170; p. 185.
Gage. M. Nielsen. No. 1,007,229; Oct. 31; Sp. p. 5909; Gaz. vol. 171; p. 1078.
Gage and straight-edge, Combined. J. H. Miner. No. 982,624; Jan. 24; Sp. p. 5373; Gaz. vol. 162; p. 927.
Gage attachment, Water-. F. L. Jobson. No. 1,007,703; Nov. 7; Sp. p. 113; Gaz. vol. 172; p. 18.
Gage-movement. F. C. Blanchard and E. B. Crocker. No. 980,403; Jan. 3; Sp. p. 464; Gaz. vol. 162; p. 80.
Gage-movement. F. C. Blanchard and E. B. Crocker. No. 987,039; Mar. 14; Sp. p. 2681; Gaz. vol. 164; p. 464.
Gage, rule, and square, Combined. E. Maupin. No. 1,007,038; Oct. 24; Sp. p. 5455; Gaz. vol. 171; p. 956.
Gain-cutter. P. E. Green. No. 997,252; July 4; Sp. p. 1372; Gaz. vol. 168; p. 225.
Galley, Indestructible. W. A. Burnette. No. 1,009,045; Nov. 21; Sp. p. 3166; Gaz. vol. 172; p. 561.
Galvanic battery. E. C. Smith and E. L. Marshall. No. 1,011,258; Dec. 12; Sp. p. 1941; Gaz. vol. 173; p. 334.
Galvanometer. F. Aronson. No. 998,594; July 25; Sp. p. 4336; Gaz. vol. 168; p. 795.
Gambrel. E. Lace. No. 1,006,955; Oct. 24; Sp. p. 5278; Gaz. vol. 171; p. 928.
Game. G. W. Bugbee. No. 986,683; Mar. 14; Sp. p. 1965; Gaz. vol. 164; p. 346.
Game. W. J. Rigney. No. 990,292; Apr. 25; Sp. p. 4294; Gaz. vol. 165; p. 766.
Game. M. M. McClay. No. 991,523; May 9; Sp. p. 1488; Gaz. vol. 166; p. 278.
Game. R. S. Crocker. No. 998,233; July 18; Sp. p. 3549; Gaz. vol. 168; p. 636.
Game. W. E. Campbell. No. 1,009,471; Nov. 21; Sp. p. 4128; Gaz. vol. 172; p. 712.
Game apparatus. G. Cole. No. 980,207; Jan. 3; Sp. p. 62; Gaz. vol. 162; p. 12.
Game apparatus. C. Maunders. No. 980,312; Jan. 3; Sp. p. 247; Gaz. vol. 162; p. 47.
Game apparatus. G. F. W. Schultze. No. 982,747; Jan. 24; Sp. p. 5636; Gaz. vol. 162; p. 967.
Game apparatus. A. H. Porter. No. 983,250; Jan. 31; Sp. p. 6720; Gaz. vol. 162; p. 1165.
Game apparatus. M. Oates. No. 983,925; Feb. 14; Sp. p. 1467; Gaz. vol. 163; p. 259.
Game apparatus. J. F. Hayes and A. Bowman. No. 984,139; Feb. 14; Sp. p. 1918; Gaz. vol. 163; p. 329.
Game apparatus. G. Hitzroth. No. 984,920; Feb. 21; Sp. p. 3588; Gaz. vol. 163; p. 633.
Game apparatus. W. C. Baird. No. 985,384; Feb. 28; Sp. p. 4601; Gaz. vol. 163; p. 825.
Game apparatus. G. A. Wehner. No. 985,561; Feb. 28; Sp. p. 5012; Gaz. vol. 163; p. 887.
Game apparatus. W. W. Duncan. No. 986,147; Mar. 7; Sp. p. 810; Gaz. vol. 164; p. 132.
Game apparatus. J. Fleming. No. 986,157; Mar. 7; Sp. p. 828; Gaz. vol. 164; p. 135.
Game apparatus. H. T. Watkins. No. 988,526; Apr. 4; Sp. p. 504; Gaz. vol. 165; p. 80.
Game apparatus. A. B. Hill. No. 990,439; Apr. 25; Sp. p. 4662; Gaz. vol. 165; p. 819.
Game apparatus. F. Deerberg. No. 990,851; May 2; Sp. p. 49; Gaz. vol. 166; p. 11.
Game apparatus. R. Read. No. 991,748; May 9; Sp. p. 1976; Gaz. vol. 166; p. 355.
Game apparatus. D. B. Littlefield. No. 992,015; May 9; Sp. p. 2506; Gaz. vol. 166; p. 446.
Game apparatus. G. H. Miller. No. 993,392; May 30; Sp. p. 5491; Gaz. vol. 166; p. 1011.
Game apparatus. W. A. Hatcher. No. 994,256; June 6; Sp. p. 321; Gaz. vol. 167; p. 55.
Game apparatus. P. W. Amlie. No. 994,629; June 6; Sp. p. 1091; Gaz. vol. 167; p. 182.
Game apparatus. C. Grenzebach. No. 994,671; June 6; Sp. p. 1206; Gaz. vol. 167; p. 196.
Game apparatus. L. O. Sutton. No. 994,963; June 13; Sp. p. 1916; Gaz. vol. 167; p. 337.
Game apparatus. L. A. Miller. No. 995,890; June 20; Sp. p. 3936; Gaz. vol. 167; p. 682.
Game apparatus. A. R. Coleman. No. 996,458; June 27; Sp. p. 5204; Gaz. vol. 167; p. 912.
Game apparatus. C. H. Moore. No. 997,314; July 11; Sp. p. 1516; Gaz. vol. 168; p. 276.
Game apparatus. H. W. Standidge. No. 998,045; July 18; Sp. p. 3130; Gaz. vol. 168; p. 569.
Game apparatus. W. Lammersen. No. 998,103; July 18; Sp. p. 3272; Gaz. vol. 168; p. 590.
Game apparatus. M. F. Shea. No. 998,411; July 18; Sp. p. 3958; Gaz. vol. 168; p. 701.
Game apparatus. H. R. Stevenson. No. 998,424; July 18; Sp. p. 3983; Gaz. vol. 168; p. 706.
Game apparatus. P. Wernicke. No. 999,073; July 25; Sp. p. 5425; Gaz. vol. 168; p. 965.
Game apparatus. S. J. Connies. No. 999,095; July 25; Sp. p. 5468; Gaz. vol. 168; p. 973.
Game apparatus. J. T. Todd. No. 999,913; Aug. 8; Sp. p. 1443; Gaz. vol. 169; p. 274.
Game apparatus. A. L. Hay. No. 1,001,393; Aug. 22; Sp. p. 4724; Gaz. vol. 169; p. 852.
Game apparatus. J. T. Fenton. No. 1,003,589; Sept. 19; Sp. p. 3062; Gaz. vol. 170; p. 552.
Game apparatus. W. N. Taylor. No. 1,004,935; Oct. 3; Sp. p. 836; Gaz. vol. 171; p. 136.
Game apparatus. J. E. Yost. No. 1,005,095; Oct. 3; Sp. p. 1119; Gaz. vol. 171; p. 189.
Game apparatus. J. G. Bjorkman. No. 1,005,503; Oct. 10; Sp. p. 2032; Gaz. vol. 171; p. 357.
Game apparatus. E. M. Lynn. No. 1,005,859; Oct. 17; Sp. p. 2824; Gaz. vol. 171; p. 514.
Game apparatus. D. H. Talbert. No. 1,006,314; Oct. 17; Sp. p. 3859; Gaz. vol. 171; p. 674.
Game apparatus. J. V. B. Rapp. No. 1,007,389; Oct. 31; Sp. p. 6243; Gaz. vol. 171; p. 1136.
Game apparatus. D. H. Taylor. No. 1,008,874; Nov. 14; Sp. p. 2785; Gaz. vol. 172; p. 468.
Game apparatus. M. J. Lankler. No. 1,009,421; Nov. 21; Sp. p. 4037; Gaz. vol. 172; p. 696.
Game apparatus. A. A. Pons. No. 1,011,644; Dec. 12; Sp. p. 2842; Gaz. vol. 173; p. 474.
Game apparatus. H. Mitchell. No. 1,012,891; Dec. 26; Sp. p. 5556; Gaz. vol. 173; p. 980.
Game apparatus, Geographical-. M. L. Tucker. No. 989,209; Apr. 11; Sp. p. 1923; Gaz. vol. 165; p. 333.
Game apparatus, Parlor-. C. F. Burtis. No. 985,004; Feb. 21; Sp. p. 3739; Gaz. vol. 163; p. 660.
Game apparatus, Race-. R. M. Brenner. No. 1,011,563; Dec. 12; Sp. p. 2638; Gaz. vol. 173; p. 443.
Game-board. W. L. Deming. No. 985,788; Mar. 7; Sp. p. 40; Gaz. vol. 164; p. 9.
Game-board. F. M. Burrowes. No. 1,005,151; Oct. 10; Sp. p. 1233; Gaz. vol. 171; p. 230.

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Game-board, Puzzle. H. Endinger. No. 991,963; May 9; Sp. p. 2409; Gaz. vol. 166; p. 428.
Game, Card. S. H. Kyle and G. Laenhardt. No. 1,000,095; Aug. 8; Sp. p. 1863; Gaz. vol. 169; p. 337.
Game-counter. M. H. Collins. No. 980,208; Jan. 3; Sp. p. 63; Gaz. vol. 162; p. 13.
Game-counter. H. Marshall. No. 987,151; Mar. 21; Sp. p. 2919; Gaz. vol. 164; p. 533.
Game-counter. D. McDonald. No. 999,666; Aug. 1; Sp. p. 926; Gaz. vol. 169; p. 162.
Game-counter. W. P. Flanagan. No. 1,007,854; Nov. 7; Sp. p. 487; Gaz. vol. 172; p. 73.
Game device. T. C. Wood. No. 983,592; Feb. 7; Sp. p. 735; Gaz. vol. 163; p. 115.
Game device. B. G. Ward. No. 997,348; July 11; Sp. p. 1589; Gaz. vol. 168; p. 288.
Game device. B. G. Ward. No. 997,349; July 11; Sp. p. 1591; Gaz. vol. 168; p. 288.
Game device. B. G. Ward. No. 999,069; July 25; Sp. p. 5419; Gaz. vol. 168; p. 964.
Game device. J. L. McClintock. No. 1,002,420; Sept. 5; Sp. p. 549; Gaz. vol. 170; p. 78.
Game device. O. Weston. No. 1,006,516; Oct. 24; Sp. p. 4318; Gaz. vol. 171; p. 775.
Game device. W. G. Fulton and C. W. Busch. No. 1,008,898; Nov. 14; Sp. p. 2835; Gaz. vol. 172; p. 477.
Game device. H. Vogelsang. No. 1,010,540; Dec. 5; Sp. p. 307; Gaz. vol. 173; p. 49.
Game device, Ball-. R. Sato. No. 1,008,073; Nov. 7; Sp. p. 917; Gaz. vol. 172; p. 147.
Game, Electric ball. J. F. Smiley. No. 988,829; Apr. 4; Sp. p. 1145; Gaz. vol. 165; p. 183.
Game-fork. A. P. Schneider. No. 993,721; May 30; Sp. p. 6226; Gaz. vol. 166; p. 1126.
Game, Golf. C. B. Cory. No. 1,012,820; Dec. 26; Sp. p. 5391; Gaz. vol. 173; p. 957.
Game-piece. C. Schutz. No. 998,991; July 25; Sp. p. 5258; Gaz. vol. 168; p. 936.
Game-piece. C. Schutz. No. 1,013,074; Dec. 26; Sp. p. 5958; Gaz. vol. 173; p. 1043.
Game, Pool. F. A. Beltran. No. 984,463; Feb. 14; Sp. p. 2599; Gaz. vol. 163; p. 439.
Game-recorder. A. C. Fluschman. No. 987,056; Mar. 14; Sp. p. 2716; Gaz. vol. 164; p. 470.
Game-register. A. Pletsch. No. 1,009,690; Nov. 21; Sp. p. 4552; Gaz. vol. 172; p. 784.
Game-table. C. Eschenbruecher. No. 1,008,894; Nov. 14; Sp. p. 2827; Gaz. vol. 172; p. 475.
Gaming device. J. J. Rubens. No. 983,315; Feb. 7; Sp. p. 122; Gaz. vol. 163; p. 22.
Gang-edger. L. Harlow. No. 982,602; Jan. 24; Sp. p. 5331; Gaz. vol. 162; p. 919.
Gang-plank. J. Bidlake. No. 1,000,983; Aug. 22; Sp. p. 3822; Gaz. vol. 169; p. 712.
Gang-wrench. J. H. Kaesen. No. 1,001,530; Aug. 22; Sp. p. 4962; Gaz. vol. 169; p. 896.
Gapped wheel. E. G. Yeates. No. 1,006,039; Oct. 17; Sp. p. 3224; Gaz. vol. 171; p. 577.
Garage turn-table. W. T. Simpson. No. 992,917; May 23; Sp. p. 4477; Gaz. vol. 166; p. 821.
Garbage and similar refuse, Apparatus for handling. J. B. Livingston. No. 999,507; Aug. 1; Sp. p. 618; Gaz. vol. 169; p. 107.
Garbage-can. W. F. Gage. No. 994,147; June 6; Sp. p. 90; Gaz. vol. 167; p. 17.
Garbage-can. M. Raughtigan. No. 1,009,691; Nov. 21; Sp. p. 4554; Gaz. vol. 172; p. 784.
Garbage-can, Sanitary. H. T. Klugel. No. 999,374; Aug. 1; Sp. p. 364; Gaz. vol. 169; p. 64.
Garbage-cart. W. Nepean-Hutchison. No. 981,653; Jan. 17; Sp. p. 3304; Gaz. vol. 162; p. 561.
Garbage carting and destructing device. G. Mayer-Dinkel. No. 1,009,914; Nov. 28; Sp. p. 5019; Gaz. vol. 172; p. 906.
Garbage-closet. C. S. Robinson. No. 983,087; Jan. 31; Sp. p. 6398; Gaz. vol. 162; p. 1111.
Garbage-closets, Ventilating-conduit for. C. S. Robinson. No. 983,770; Feb. 7; Sp. p. 1096; Gaz. vol. 163; p. 176.
Garbage-crematory. O. M. Shannon. No. 981,228; Jan. 10; Sp. p. 2434; Gaz. vol. 162; p. 394.
Garbage-crematory. C. A. Raggio. No. 983,765; Feb. 7; Sp. p. 1088; Gaz. vol. 163; p. 174.
Garbage-crematory. R. E. Nye. No. 1,005,743; Oct. 10; Sp. p. 2566; Gaz. vol. 171; p. 441.
Garbage-incinerating and steam-generating system. C. A. Byrne. No. 994,636; June 6; Sp. p. 1123; Gaz. vol. 167; p. 184.
Garbage-incinerator. J. B. Harris. No. 1,006,379; Oct. 17; Sp. p. 3995; Gaz. vol. 171; p. 696.
Garbage-pulverizer for sewers. J. G. Wallick. No. 996,958; July 4; Sp. p. 747; Gaz. vol. 168; p. 122.
Garbage-receptacle. C. Milgrom. No. 988,584; Apr. 4; Sp. p. 642; Gaz. vol. 165; p 102.
Garbage-receptacle. M. C. Short. No. 988,668; Apr. 4; Sp. p. 810; Gaz. vol. 165; p. 131.
Garbage-receptacle. M. K. Bunn. No. 991,270; May 2; Sp. p. 952; Gaz. vol. 166; p. 160.
Garbage-receptacle. M. M. De Grody. No. 994,909; June 13; Sp. p. 1814; Gaz. vol. 167; p. 319.
Garbage-receptacle. F. B. Jones. No. 1,009,842; Nov. 28; Sp. p. 4888; Gaz. vol. 172; p. 883.
Garbage-receptacle, Sanitary. M. A. Thorpe. No. 999,912; Aug. 8; Sp. p. 1442; Gaz. vol. 169; p. 274.
Garbage, System of and apparatus for treating. F. G. Wiselogel. No. 994,047; May 30; Sp. p. 6880; Gaz. vol. 166; p. 1235.
Garbage-treating apparatus. J. G. Walker. No. 990,688; Apr. 25; Sp. p. 5228; Gaz. vol. 165; p. 902.
Garden and road roller. A. S. F. Robinson. No. 988,818; Apr. 4; Sp. p. 1127; Gaz. vol. 165; p. 180.
Garden-tool. V. Schmid. No. 987,918; Mar. 28; Sp. p. 4594; Gaz. vol. 164; p. 827.
Garden-tool. M. L. Weisel. No. 999,930; Aug. 8; Sp. p. 1477; Gaz. vol. 169; p. 280.
Garden-tool. H. Stults. No. 1,008,873; Nov. 14; Sp. p. 2784; Gaz. vol. 172; p. 466.
Garment. V. M. Schmitz. No. 993,886; May 30; Sp. p. 6556; Gaz. vol. 166; p. 1181.
Garment. R. Sato. No. 998,122; July 18; Sp. p. 3312; Gaz. vol. 168; p. 597.
Garment. J. L. Howenstine. No. 998,774; July 25; Sp. p. 4761; Gaz. vol. 168; p. 860.
Garment. S. Treinis. No. 998,999; July 25; Sp. p. 5274; Gaz. vol. 168; p. 939.
Garment. E. W. Goodrich. No. 1,002,579; Sept. 5; Sp. p. 892; Gaz. vol. 170; p. 132.
Garment. M. Simon. No. 1,003,155; Sept. 12; Sp. p. 2130; Gaz. vol. 170; p. 367.
Garment. M. Schorr. No. 1,003,811; Sept. 19; Sp. p. 3530; Gaz. vol. 170; p. 628.
Garment. H. Feierabend. No. 1,005,109; Oct. 3; Sp. p. 1147; Gaz. vol. 171; p. 194.
Garment. J. D. Steefel. No. 1,009,109; Nov. 21; Sp. p. 3303; Gaz. vol. 172; p. 584.
Garment. M. L. Kelley. No. 1,011,810; Dec. 12; Sp. p. 3167; Gaz. vol. 173; p. 529.
Garment and hose supporter, Combination. E. C. Durland. No. 988,179; Mar. 28; Sp. p. 5152; Gaz. vol. 164; p. 914.
Garment-carrier. S. Katz and C. C. Barnett. No. 987,074; Mar. 14; Sp. p. 2749; Gaz. vol. 164; p. 475.
Garment, Child's. L. F. Linker. No. 1,001,538; Aug. 22; Sp. p. 4983; Gaz. vol. 169; p. 899.
Garment-clasp. C. L. Robinson. No. 981,946; Jan. 17; Sp. p. 3984; Gaz. vol. 162; p. 665.
Garment-clasp. D. J. Scott. No. 984,162; Feb. 14; Sp. p. 1963; Gaz. vol. 163; p. 337.
Garment-clasp. J. C. Marston. No. 993,535; May 30; Sp. p. 5805; Gaz. vol. 166; p. 1060.
Garment-clasp. H. H. Taylor. No. 997,217; July 4; Sp. p. 1304; Gaz. vol. 168; p. 212.
Garment, Combination-. A. Golick. No. 1,011,339; Dec. 12; Sp. p. 2135; Gaz. vol. 173; p. 364.
Garment-creaser. O. G. I. O'Heir. No. 986,850; Mar. 14; Sp. p. 2320; Gaz. vol. 164; p. 402.
Garment, Demonstration-. L. S. Carroll. No. 996,210; June 27; Sp. p. 4638; Gaz. vol. 167; p. 827.
Garment, Electric. A. C. Stubling and F. C. Gibson. No. 1,006,415; Oct. 17; Sp. p. 4068; Gaz. vol. 171; p. 709.
Garment-fastener. M. E. Kintz. No. 992,362; May 16; Sp. p. 3315; Gaz. vol. 166; p. 597.
Garment-fastener. G. Bouvier. No. 995,218; June 13; Sp. p. 2422; Gaz. vol. 167; p. 420.
Garment-fastener. W. L. Whiting. No. 996,181; June 27; Sp. p. 4584; Gaz. vol. 167; p. 818.
Garment-fastener. F. M. Pierce. No. 998,390; July 18; Sp. p. 3917; Gaz. vol. 168; p. 694.
Garment-fitter. I. M. Bond. No. 986,041; Mar. 7; Sp. p. 613; Gaz. vol. 164; p. 99.
Garment-fitter. I. M. Bartlett. No. 1,003,318; Sept. 12; Sp. p. 2480; Gaz. vol. 170; p. 427.
Garment-fly. A. D. Goffin. No. 1,004,869; Oct. 3; Sp. p. 699; Gaz. vol. 171; p. 114.
Garment-hanger. H. N. Drucker. No. 980,219; Jan. 3; Sp. p. 85; Gaz. vol. 162; p. 16.
Garment-hanger. C. J. Spruce. No. 980,693; Jan. 3; Sp. p. 1120; Gaz. vol. 162; p. 179.
Garment-hanger. J. T. Batts. No. 980,907; Jan. 10; Sp. p. 1620; Gaz. vol. 162; p. 281.
Garment-hanger. J. T. Batts. No. 980,908; Jan. 10; Sp. p. 1621; Gaz. vol. 162; p. 281.
Garment-hanger. J. P. Bell and G. D. Schlanger. No. 982,120; Jan. 17; Sp. p. 4334; Gaz. vol. 162; p. 723.
Garment-hanger. H. Tueckmantel. No. 987,416; Mar. 21; Sp. p. 3503; Gaz. vol. 164; p. 626.
Garment-hanger. F. P. Traversi. No. 989,448; Apr. 11; Sp. p. 2443; Gaz. vol. 165; p. 413.
Garment-hanger. F. Edlund. No. 989,587; Apr. 18; Sp. p. 2792; Gaz. vol. 165; p. 494.
Garment-hanger. F. Bement. No. 990,515; Apr. 25; Sp. p. 4852; Gaz. vol. 165; p. 846.
Garment-hanger. H. Mixa. No. 996,504; June 27; Sp. p. 5288; Gaz. vol. 167; p. 927.
Garment-hanger. M. C. White. No. 999,282; Aug. 1; Sp. p. 170; Gaz. vol. 169; p. 32.
Garment-hanger. J. Serp. No. 1,002,767; Sept. 5; Sp. p. 1306; Gaz. vol. 170; p. 196.

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Garment-hanger. L. Hauser. No. 1,005,967; Oct. 17; Sp. p. 3078; Gaz. vol. 171; p. 553.
Garment-hanger. T. J. Hamilton. No. 1,008,327; Nov. 14; Sp. p. 1521; Gaz. vol. 172; p. 278.
Garment-hanger. G. H. Wheary. No. 1,010,102; Nov. 28; Sp. p. 5417; Gaz. vol. 172; p. 971.
Garment-hanger. A. R. Schmidt. No. 1,010,183; Nov. 28; Sp. p. 5572; Gaz. vol. 172; p. 998.
Garment-hanger. J. D. Gallagher and H. Jones. No. 1,010,611; Dec. 5; Sp. p. 474; Gaz. vol. 173; p. 74.
Garment hanger and stretcher. A. J. Ketelsen. No. 998,530; July 18; Sp. p. 4187; Gaz. vol. 168; p. 741.
Garment-hook. T. J. Browning. No. 981,375; Jan. 10; Sp. p. 2744; Gaz. vol. 162; p. 445.
Garment interior detachable pad. W. T. Stall. No. 981,024; Jan. 10; Sp. p. 1954; Gaz. vol. 162; p. 322.
Garment, Lady's and miss's. H. C. Routery. No. 990,201; Apr. 18; Sp. p. 4081; Gaz. vol. 165; p. 701.
Garment-loop. H. D. Sargent. No. 999,878; Aug. 8; Sp. p. 1358; Gaz. vol. 169; p. 262.
Garment-marker. M. Jackson. No. 1,006,753; Oct. 24; Sp. p. 4821; Gaz. vol. 171; p. 857.
Garment-marking device. J. L. Gutman. No. 1,002,680; Sept. 5; Sp. p. 1102; Gaz. vol. 170; p. 166.
Garment or merchandise hanger. N. D. Cohen. No. 1,000,896; Aug. 15; Sp. p. 3612; Gaz. vol. 169; p. 649.
Garment presser and stretcher. J. P. Paddington. No. 998,548; July 18; Sp. p. 4216; Gaz. vol. 168; p. 747.
Garment-pressing machine. T. D. Palmer. No. 1,011,362; Dec. 12; Sp. p. 2181; Gaz. vol. 173; p. 371.
Garment-rack, Collapsible. J. Kohn. No. 994,753; June 13; Sp. p. 1439; Gaz. vol. 167; p. 266.
Garment-retaining device. D. Basch. No. 985,321; Feb. 28; Sp. p. 4472; Gaz. vol. 163; p. 805.
Garment stretcher and presser. N. M. Deal. No. 987,615; Mar. 21; Sp. p. 3890; Gaz. vol. 164; p. 692.
Garment-supporter. J. P. Walton. No. 980,461; Jan. 3; Sp. p. 610; Gaz. vol. 162; p. 101.
Garment-supporter. R. A. Moore. No. 985,435; Feb. 28; Sp. p. 4734; Gaz. vol. 163; p. 842.
Garment-supporter. F. Hunter. No. 989,606; Apr. 18; Sp. p. 2828; Gaz. vol. 165; p. 500.
Garment-supporter. R. Gorton. No. 996,711; July 4; Sp. p. 233; Gaz. vol. 168; p. 40.
Garment-supporter. C. C. Hackney. No. 1,001,947; Aug. 29; Sp. p. 5897; Gaz. vol. 169; p. 1069.
Garment-supporter. T. Davis. No. 1,006,066; Oct. 17; Sp. p. 3280; Gaz. vol. 171; p. 586.
Garment-supporter. G. R. Hubbard. No. 1,007,206; Oct. 31; Sp. p. 5864; Gaz. vol. 171; p. 1070.
Garment-supporter. D. Cass. No. 1,007,530; Oct. 31; Sp. p. 6546; Gaz. vol. 171; p. 1184.
Garment-supporter clasps, Loop for. C. W. Stimson. No. 1,005,353; Oct. 10; Sp. p. 1711; Gaz. vol. 171; p. 306.
Garment-supporter hook. R. A. Moore. No. 991,795; May 9; Sp. p. 2061; Gaz. vol. 166; p. 370.
Garment-suspending device. A. Peter. No. 988,809; Apr. 4; Sp. p. 1107; Gaz. vol. 165; p. 177.
Garment, Union. C. O. Terwilliger. No. 992,291; May 16; Sp. p. 3134; Gaz. vol. 166; p. 571.
Garment, Union. H. S. Cooper. No. 1,005,164; Oct. 10; Sp. p. 1265; Gaz. vol. 171; p. 235.
Garment, Waist-. H. J. Page. No. 1,006,590; Oct. 24; Sp. p. 4504; Gaz. vol. 171; p. 803.
Garments, &c., Means for packing and transporting. E. Metzger. No. 994,419; June 6; Sp. p. 660; Gaz. vol. 167; p. 113.
Garments, Suspending-tab for. P. Gallrein. No. 995,781; June 20; Sp. p. 3696; Gaz. vol. 167; p. 645.
Garter-fastening. E. N. Humphrey. No. 998,518; July 18; Sp. p. 4168; Gaz. vol. 168; p. 737.
Garter, Man's. W. H. Johnson No. 985,904; Mar. 7; Sp. p. 314; Gaz. vol. 164; p. 51.
Gas-alarm. E. Hugill, A. S. Gould, and G. A. Peterson. No. 980,785; Jan. 3; Sp. p. 1301; Gaz. vol. 162; p. 209.
Gas-alarm. G. A. Peterson. No. 980,831; Jan. 3; Sp. p. 1396; Gaz. vol. 162; p. 224.
Gas-alarm. A. B. Jacobus. No. 986,715; Mar. 14; Sp. p. 2032; Gaz. vol. 164; p. 356.
Gas and air mixer. G. Haniquet. No. 986,280; Mar. 7; Sp. p. 1091; Gaz. vol. 164; p. 175.
Gas and air mixer. F. C. Merrege. No. 989,174; Apr. 11; Sp. p. 1855; Gaz. vol. 165; p. 322.
Gas and air mixing device. R. G. Dowins. No. 1,013,000; Dec. 26; Sp. p. 5813; Gaz. vol. 173; p. 1017.
Gas and electric-light fixture. R. T. Kachel. No. 1,007,293; Oct. 31; Sp. p. 6035; Gaz. vol. 171; p. 1101.
Gas and lime manufacturing apparatus. G. G. Floyd. No. 997,982; July 18; Sp. p. 2977; Gaz. vol. 168; p. 546.
Gas and liquid mixer. E. P. Noyes. No. 993,096; May 23; Sp. p. 4865; Gaz. vol. 166; p. 883.
Gas and separating its elements, Apparatus for liquefying. E. F. Gallaudet. No. 982,225; Jan. 17; Sp. p. 4526; Gaz. vol. 162; p. 759.
Gas and separating its elements, Liquefying. E. F. Gallaudet. No. 981,755; Jan. 17; Sp. p. 3516; Gaz. vol. 162; p. 596.
Gas and water meter tester, Combined. W. B. Hoyt. No. 1,005,839; Oct. 17; Sp. p. 2778; Gaz. vol. 171; p. 506.
Gas apparatus, Acetylene-. C. B. Sherlock. No. 983,863; Feb. 7; Sp. p. 1307; Gaz. vol. 163; p. 208.
Gas apparatus, Air-. A. C. Ionides, Jr. No. 1,011,961; Dec. 19; Sp. p. 3515; Gaz. vol. 173; p. 615.
Gas, Apparatus for preventing explosions and danger from the escape of. W. A. J. van de Kamp. No. 993,283; May 23; Sp. p. 5240; Gaz. vol. 166; p. 940.
Gas, Apparatus for the manufacture of power-. E. Fleischer. No. 990,212; Apr. 18; Sp. p. 4096; Gaz. vol. 165; p. 704.
Gas, Apparatus for the production of water-. H. E. Smith. No. 984,447; Feb. 14; Sp. p. 2562; Gaz. vol. 163; p. 434.
Gas apparatus, Producer-. J. M. W. Kitchen. No. 1,008,274; Nov. 7; Sp. p. 1351; Gaz. vol. 172; p. 221.
Gas apparatus, Vertical-retort. J. H. Taussig. No. 999,349; Aug. 1; Sp. p. 305; Gaz. vol. 169; p. 55.
Gas-blowpipe. N. Goodyear. No. 985,159; Feb. 28; Sp. p. 4111; Gaz. vol. 163; p. 748.
Gas-burner. L. F. Knoderer. No. 981,573; Jan. 10; Sp. p. 3147; Gaz. vol. 162; p. 513.
Gas-burner. C. Hoff. No. 981,855; Jan. 17; Sp. p. 3745; Gaz. vol. 162; p. 633.
Gas-burner. H. J. Solliday. No. 984,165; Feb. 14; Sp. p. 1967; Gaz. vol. 163; p. 338.
Gas-burner. C. W. De Forest. No. 991,141; May 2; Sp. p. 665; Gaz. vol. 166; p. 113.
Gas-burner. B. Q. P. Foss. No. 992,181; May 16; Sp. p. 2863; Gaz. vol. 166; p. 533.
Gas-burner. B. F. Jackson. No. 993,687; May 30; Sp. p. 6155; Gaz. vol. 166; p. 1113.
Gas-burner. H. Lyon. No. 1,001,967; Aug. 29; Sp. p. 5939; Gaz. vol. 169; p. 1076.
Gas-burner. A. E. Harris. No. 1,002,684; Sept. 5; Sp. p. 1111; Gaz. vol. 170; p. 167.
Gas-burner. A. Künkler. No. 1,003,053; Sept. 12; Sp. p. 1919; Gaz. vol. 170; p. 331.
Gas-burner. H. Süssmann. No. 1,006,023; Oct. 17; Sp. p. 3185; Gaz. vol. 171; p. 571.
Gas-burner. H. C. Werner. No. 1,006,324; Oct. 17; Sp. p. 3875; Gaz. vol. 171; p. 677.
Gas-burner. S. B. Warnock. No. 1,007,162; Oct. 31; Sp. p. 5760; Gaz. vol. 171; p. 1054.
Gas-burner. J. L. Crawford. No. 1,007,538; Oct. 31; Sp. p. 6562; Gaz. vol. 171; p. 1186.
Gas-burner. A. G. Sherman. No. 1,008,741; Nov. 14; Sp. p. 2518; Gaz. vol. 172; p. 424.
Gas-burner. C. P. Bott. No. 1,009,379; Nov. 21; Sp. p. 3927; Gaz. vol. 172; p. 681.
Gas-burner. R. Momand. No. 1,010,445; Dec. 5; Sp. p. 82; Gaz. vol. 173; p. 17.
Gas-burner. F. P. Schroder. No. 1,012,453; Dec. 19; Sp. p. 4570; Gaz. vol. 173; p. 783.
Gas burner, Acetylene-. F. E. Baldwin. No. 994,365; June 6; Sp. p. 549; Gaz. vol. 167; p. 94.
Gas burner, Artificial-. J. Weintz. No. 986,663; Mar. 14; Sp. p. 1933; Gaz. vol. 164; p. 340.
Gas-burner attachment, Alternating-. F. G. Hirst. No. 1,010,049; Nov. 28; Sp. p. 5314; Gaz. vol. 172; p. 953.
Gas-burner controller. A. Girtanner. No. 982,808; Jan. 31; Sp. p. 5777; Gaz. vol. 162; p. 1017.
Gas-burner for dental tables. T. Smith. No. 991,101; May 2; Sp. p. 567; Gaz. vol. 166; p. 99.
Gas burner, Fuel-. C. A. Kurz, Jr., and G. G. Dedekind. No. 992,966; May 23; Sp. p. 4595; Gaz. vol. 166; p. 838.
Gas-burner, Incandescent. O. Mannesmann. No. 981,779; Jan. 17; Sp. p. 3566; Gaz. vol. 162; p. 606.
Gas-burner, Incandescent. L. T. Alton. No. 984,177; Feb. 14; Sp. p. 1994; Gaz. vol. 163; p. 342.
Gas-burner, Incandescent. H. Darwin. No. 1,006,442; Oct. 17; Sp. p. 4125; Gaz. vol. 171; p. 718.
Gas-burner mixing device. K. Eberle. No. 1,000,385; Aug. 15; Sp. p. 2500; Gaz. vol. 169; p. 468.
Gas burner, Oil-. C. C. Lillibridge. No. 1,005,987; Oct. 17; Sp. p. 3113; Gaz. vol. 171; p. 559.
Gas-burner regulator. P. Keller. No. 997,679; July 11; Sp. p. 2256; Gaz. vol. 168; p. 399.
Gas-burner, Safety. C. Schneider. No. 993,111; May 23; Sp. p. 4907; Gaz. vol. 166; p. 889.
Gas-burner tip. J. R. Leeming. No. 1,005,722; Oct. 10; Sp. p. 2527; Gaz. vol. 171; p. 433.
Gas-burners and like fittings, Supporting means for globes of inverted incandescent. A. Bray. No. 986,432; Mar. 14; Sp. p. 1434; Gaz. vol. 164; p. 259.
Gas-burners, Burner-mouthpiece for incandescent. G. Schuchardt. No. 981,011; Jan. 10; Sp. p. 1920; Gaz. vol. 162; p. 318.
Gas-burners, Circuit-controlling apparatus for electric. E. A. and E. N. Frary. No. 994,585; June 6; Sp. p. 1003; Gaz. vol. 167; p. 167.
Gas-burners from a distance, Apparatus for controlling. F. Rossbach-Rousset. No. 992,907; May 23; Sp. p. 4458; Gaz. vol. 166; p. 817.
Gas-burners, Igniter-torch for. J. F. Rutz and J. K. Luethe. No. 1,009,184; Nov. 21; Sp. p. 3449; Gaz. vol. 172; p. 609.
Gas-burners, Safety-lock for. G. R. Olson. No. 988,378; Apr. 4; Sp. p. 197; Gaz. vol. 165; p. 32.
Gas-burners, Thermostatic cut-off device for. J. W. Peplinski. No. 989,188; Apr. 11; Sp. p. 1881; Gaz. vol. 165; p. 326.

Gas-burning light. A. E. Hartel. No. 982,271; Jan. 24; Sp. p. 4632; Gaz. vol. 162; p. 804.
Gas-calorimeter, Recording. C. H. and F. G. Beasley and R. H. Bradbury. No. 987,537; Mar. 21; Sp. p. 3727; Gaz. vol. 164; p. 666.
Gas-calorimeters and analogous instruments, Regulator for recording. F. G. Beasley. No. 985,722; Feb. 28; Sp. p. 5375; Gaz. vol. 163; p. 942.
Gas-check. J. S. McDonald and T. L. Way. No. 997,147; July 4; Sp. p. 1167; Gaz. vol. 168; p. 188.
Gas-cleaning apparatus. W. W. Gore and F. G. Hobart. No. 981,188; Jan. 10; Sp. p. 2304; Gaz. vol. 162; p. 380.
Gas-cleaning apparatus. J. P. Dovel. No. 1,001,740; Aug. 29; Sp. p. 5427; Gaz. vol. 169; p. 1000.
Gas-cleaning apparatus. O. H. Ensign. No. 1,005,819; Oct. 17; Sp. p. 2731; Gaz. vol. 171; p. 499.
Gas-collecting mains, Cleaning device for. L. C. Flaccus. No. 1,005,011; Oct. 3; Sp. p. 969; Gaz. vol. 171; p. 161.
Gas-compressing apparatus, Multiple-effect. G. T. Voorhees. No. 982,753; Jan. 24; Sp. p. 5650; Gaz. vol. 162; p. 968.
Gas-condenser. G. E. Woods. No. 1,000,766; Aug. 15; Sp. p. 3341; Gaz. vol. 169; p. 603.
Gas connections, Safety signaling device for. F. Frey. No. 997,987; July 18; Sp. p. 2996; Gaz. vol. 168; p. 548.
Gas-container closure. R. H. Campbell. No. 986,135; Mar. 7; Sp. p. 792; Gaz. vol. 164; p. 128.
Gas-controller. R. L. Avery. No. 1,000,485; Aug. 15; Sp. p. 2711; Gaz. vol. 169; p. 503.
Gas controller or regulator. E. W. Blake. No. 982,702; Jan. 24; Sp. p. 5534; Gaz. vol. 162; p. 953.
Gas-controlling apparatus. H. Sieben. (Reissue.) No. 13,193; Jan. 3; Sp. p. 1572; Gaz. vol. 162; p. 249.
Gas-controlling device for burners. E. E. Frederick. No. 1,010,247; Nov. 28; Sp. p. 5701; Gaz. vol. 172; p. 1019.
Gas-cooling condenser. W. P. Noonan and M. J. Roche. No. 992,581; May 16; Sp. p. 3767; Gaz. vol. 166; p. 674.
Gas-cut-off apparatus. C. G. Keeton. No. 1,004,794; Oct. 3; Sp. p. 525; Gaz. vol. 171; p. 87.
Gas cut-off, Automatic. C. A. Woods. No. 983,967; Feb. 14; Sp. p. 1547; Gaz. vol. 163; p. 272.
Gas cut-off, Automatic. R. E. Staples. No. 996,948; July 4; Sp. p. 727; Gaz. vol. 168; p. 119.
Gas cut-off, Automatic. D. S. Marple. No. 1,003,282; Sept. 12; Sp. p. 2411; Gaz. vol. 170; p. 414.
Gas-distributing device. E. Weber-Stierlin. No. 1,003,302; Sept. 12; Sp. p. 2450; Gaz. vol. 170; p. 422.
Gas-engine. H. K. Holsman. No. 980,263; Jan. 3; Sp. p. 156; Gaz. vol. 162; p. 31.
Gas-engine. O. J. Kirchen. No. 980,423; Jan. 3; Sp. p. 507; Gaz. vol. 162; p. 86.
Gas-engine. H. R. Stickney. No. 982,394; Jan. 24; Sp. p. 4900; Gaz. vol. 162; p. 849.
Gas-engine. J. T. Cowie. No. 987,860; Mar. 28; Sp. p. 4435; Gaz. vol. 164; p. 806.
Gas-engine. B. M. Aslakson. No. 992,141; May 16; Sp. p. 2772; Gaz. vol. 166; p. 519.
Gas-engine. J. A. Burnham, Jr. No. 993,291; May 23; Sp. p. 5256; Gaz. vol. 166; p. 943.
Gas-engine. O. C. Duryea and M. C. White. No. 995,062; June 13; Sp. p. 2134; Gaz. vol. 167; p. 370.
Gas-engine. W. E. Parker. No. 996,126; June 27; Sp. p. 4416; Gaz. vol. 167; p. 799.
Gas-engine. A. R. Hendrix. No. 996,643; July 4; Sp. p. 103; Gaz. vol. 168; p. 18.
Gas-engine. C. De Lukacsevics. No. 998,363; July 18; Sp. p. 3863; Gaz. vol. 168; p. 685.
Gas-engine. B. M. Aslakson. No. 999,426; Aug. 1; Sp. p. 459; Gaz. vol. 169; p. 81.
Gas-engine. S. J. Webb. No. 1,003,019; Sept. 12; Sp. p. 1853; Gaz. vol. 170; p. 321.
Gas-engine. R. S. Moore and J. L. Simmons. No. 1,004,457; Sept. 26; Sp. p. 4988; Gaz. vol. 170; p. 878.
Gas-engine. C. T. Wade. No. 1,006,989; Oct. 24; Sp. p. 5355; Gaz. vol. 171; p. 939.
Gas-engine. R. S. Moore. No. 1,008,184; Nov. 7; Sp. p. 1142; Gaz. vol. 172; p. 188.
Gas-engine. P. B. O'Connell. No. 1,008,191; Nov. 7; Sp. p. 1164; Gaz. vol. 172; p. 191.
Gas-engine. P. W. Egan. No. 1,008,800; Nov. 14; Sp. p. 2650; Gaz. vol. 172; p. 444.
Gas-engine. A. H. Thomas. No. 1,009,353; Nov. 21; Sp. p. 3859; Gaz. vol. 172; p. 671.
Gas-engine. R. Carmichael and W. Schaibley. No. 1,010,583; Dec. 5; Sp. p. 408; Gaz. vol. 173; p. 64.
Gas-engine. W. E. Nageborn. No. 1,010,785; Dec. 5; Sp. p. 863; Gaz. vol. 173; p. 135.
Gas-engine. M. C. Kessler. No. 1,012,652; Dec. 26; Sp. p. 4998; Gaz. vol. 173; p. 897.
Gas-engine. O. F. Good. No. 1,012,845; Dec. 26; Sp. p. 5454; Gaz. vol. 173; p. 965.
Gas-engine, Compound. M. H. Sullivan. No. 1,006,416; Oct. 17; Sp. p. 4069; Gaz. vol. 171; p. 709.
Gas-engine, Convertible two to four cycle. C. F. Hopewell. No. 991,063; May 2; Sp. p. 480; Gaz. vol. 166; p. 84.
Gas engine, Explosive-. F. E. Vaughn. No. 1,012,034; Dec. 19; Sp. p. 3689; Gaz. vol. 173; p. 642.
Gas-engine, Two-cycle. C. F. Jenkins. No. 997,195; July 4; Sp. p. 1254; Gaz. vol. 168; p. 204.
Gas-engine, Variable-horse-power. A. M. Leoni. No. 983,150; Jan. 31; Sp. p. 6503; Gaz. vol. 162; p. 1131.
Gas-enriching apparatus. E. A. Dieterle. No. 985,015; Feb. 21; Sp. p. 3769; Gaz. vol. 163; p. 665.
Gas, Enriching illuminating-. H. L. Doherty. No. 992,944; May 23; Sp. p. 4544; Gaz. vol. 166; p. 831.
Gas-fixture. W. Lumley. No. 981,206; Jan. 10; Sp. p. 2340; Gaz. vol. 162; p. 386.
Gas-fixture attachment. J. H. Cato. No. 995,323; June 13; Sp. p. 2623; Gaz. vol. 167; p. 454.
Gas-flasher apparatus. J. Spring. No. 1,003,538; Sept. 19; Sp. p. 2933; Gaz. vol. 170; p. 536.
Gas from liquid hydrocarbons, Means for making producer-. H. A. Grine. No. 1,013,013; Dec. 26; Sp. p. 5836; Gaz. vol. 173; p. 1021.
Gas from wells, Apparatus for obtaining. A. S. Cooper. No. 1,000,669; Aug. 15; Sp. p. 3145; Gaz. vol. 169; p. 570.
Gas-furnace. W. Dunn. No. 990,808; Apr. 25; Sp. p. 5479; Gaz. vol. 165; p. 944.
Gas-furnace with a central pillar, Annular. C. Deselle. No. 985,251; Feb. 28; Sp. p. 4320; Gaz. vol. 163; p. 781.
Gas-generating apparatus. J. M. O'Neall. No. 998,546; July 18; Sp. p. 4212; Gaz. vol. 168; p. 746.
Gas-generator. H. Brousseau. No. 980,918; Jan. 10; Sp. p. 1642; Gaz. vol. 162; p. 284.
Gas-generator. H. Graham. No. 981,413; Jan. 10; Sp. p. 2844; Gaz. vol. 162; p. 459.
Gas-generator. T. de Fontaine. No. 987,618; Mar. 21; Sp. p. 3894; Gaz. vol. 164; p. 693.
Gas-generator. G. M. Eckels. No. 994,135; June 6; Sp. p. 65; Gaz. vol. 167; p. 13.
Gas-generator. E. M. Hoover. No. 996,716; July 4; Sp. p. 242; Gaz. vol. 168; p. 42.
Gas-generator. L. M. Hansen. No. 1,000,403; Aug. 15; Sp. p. 2539; Gaz. vol. 169; p. 474.
Gas-generator. C. F. Rukes. No. 1,001,454; Aug. 22; Sp. p. 4834; Gaz. vol. 169; p. 871.
Gas-generator. L. H. Berry. No. 1,002,025; Aug. 29; Sp. p. 6050; Gaz. vol. 169; p. 1094.
Gas-generator. T. H. Roberson. No. 1,009,694; Nov. 21; Sp. p. 4559; Gaz. vol. 172; p. 786.
Gas generator, Acetylene-. J. S. Rhea. No. 982,389; Jan. 24; Sp. p. 4891; Gaz. vol. 162; p. 847.
Gas generator, Acetylene-. E. Hayne. No. 982,961; Jan. 31; Sp. p. 6113; Gaz. vol. 162; p. 1068.
Gas generator, Acetylene-. A. Henney. No. 982,962; Jan. 31; Sp. p. 6115; Gaz. vol. 162; p. 1068.
Gas generator, Acetylene-. W. J. Wyatt. No. 986,115; Mar. 7; Sp. p. 756; Gaz. vol. 164; p. 122.
Gas generator, Acetylene-. J. N. Tweedy. No. 986,784; Mar. 14; Sp. p. 2173; Gaz. vol. 164; p. 379.
Gas generator, Acetylene-. L. F. Filloon. No. 987,055; Mar. 14; Sp. p. 2714; Gaz. vol. 164; p. 469.
Gas generator, Acetylene-. F. W. Martin. No. 988,645; Apr. 4; Sp. p. 765; Gaz. vol. 165; p. 122.
Gas generator, Acetylene-. E. G. Morrison. No. 989,179; Apr. 11; Sp. p. 1863; Gaz. vol. 165; p. 323.
Gas generator, Acetylene-. E. W. Showalter. No. 989,306; Apr. 11; Sp. p. 2147; Gaz. vol. 165; p. 366.
Gas generator, Acetylene-. A. S. Phelps, Jr. No. 989,411; Apr. 11; Sp. p. 2371; Gaz. vol. 165; p. 401.
Gas generator, Acetylene-. A. L. Kirkpatrick. No. 989,548; Apr. 11; Sp. p. 2679; Gaz. vol. 165; p. 449.
Gas generator, Acetylene-. H. N. Lines. No. 992,723; May 16; Sp. p. 4044; Gaz. vol. 166; p. 722.
Gas generator, Acetylene-. E. Dietze, Jr. No. 993,041; May 23; Sp. p. 4744; Gaz. vol. 166; p. 863.
Gas generator, Acetylene-. H. Knapp. No. 993,078; May 23; Sp. p. 4826; Gaz. vol. 166; p. 876.
Gas generator, Acetylene-. A. C. Grant. No. 993,360; May 30; Sp. p. 5428; Gaz. vol. 166; p. 1001.
Gas generator, Acetylene-. J. Carroyer. No. 993,573; May 30; Sp. p. 5880; Gaz. vol. 166; p. 1073.
Gas generator, Acetylene-. J. T. Finley. No. 995,242; June 13; Sp. p. 2472; Gaz. vol. 167; p. 428.
Gas generator, Acetylene-. R. K. Gratigny. No. 997,618; July 11; Sp. p. 2118; Gaz. vol. 168; p. 377.
Gas generator, Acetylene-. T. G. Allen. No. 997,944; July 18; Sp. p. 2904; Gaz. vol. 168; p. 533.
Gas generator, Acetylene-. L. E. Bostrom. No. 999,148; July 25; Sp. p. 5554; Gaz. vol. 168; p. 987.
Gas generator, Acetylene-. J. Boland. No. 1,001,924; Aug. 29; Sp. p. 5839; Gaz. vol. 169; p. 1062.
Gas generator, Acetylene-. P. A. Rose. No. 1,004,909; Oct. 3; Sp. p. 797; Gaz. vol. 171; p. 128.
Gas generator, Acetylene-. J. H. Miner. No. 1,005,865; Oct. 17; Sp. p. 2839; Gaz. vol. 171; p. 516.
Gas generator, Acetylene-. E. F. Kapus. No. 1,006,757; Oct. 24; Sp. p. 4827; Gaz. vol. 171; p. 858.
Gas generator, Acetylene-. J. O. Angermeier. No. 1,007,909; Nov. 7; Sp. p. 594; Gaz. vol. 172; p. 92.
Gas generator, Acetylene-. C. A. Nickles. No. 1,008,049; Nov. 7; Sp. p. 865; Gaz. vol. 172; p. 139.
Gas generator, Acetylene-. D. R. Way. No. 1,009,119; Nov. 21; Sp. p. 3317; Gaz. vol. 172; p. 587.
Gas generator and burner, Oil-. E. P. Magoon. No. 995,362; June 13; Sp. p. 2756; Gaz. vol. 167; p. 469.
Gas generator, Compressed-. H. Parzeller. No. 989,923; Apr. 18; Sp. p. 3495; Gaz. vol. 165; p. 608.
Gas generator, Gasolene-. M. F. Sparks, M. B. Allen, and R. A. Astley. No. 984,448; Feb. 14; Sp. p. 2565; Gaz. vol. 163; p. 435.

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Gas generator, Gasolene-. T. A. Davis. No. 987,438; Mar. 21; Sp. p. 3542; Gaz. vol. 164; p. 633.
Gas-generator grates, Apparatus for and method of operating. E. Hilger. No. 981,651; Jan. 17; Sp. p. 3300; Gaz. vol. 162; p. 561.
Gas generators, Automatic regulator for acetylene-. C. C. Wakefield. No. 983,255; Jan. 31; Sp. p. 6734; Gaz. vol. 162; p. 1167.
Gas generators, Water-feed mechanism for acetylene-. A. Henney. No. 998,578; July 18; Sp. p. 4292; Gaz. vol. 168; p. 758.
Gas-generators, Water seal for. A. E. Schlieder. No. 1,005,328; Oct. 10; Sp. p. 1658; Gaz. vol. 171; p. 296.
Gas-globe holder and burner-tube. H. H. Martin and W. C. Smith. No. 993,697; May 30; Sp. p. 6182; Gaz. vol. 166; p. 1118.
Gas-heated iron. J. H. Brownlee. No. 992,334; May 16; Sp. p. 3257; Gaz. vol. 166; p. 587.
Gas-heated iron. G. H. Wright. No. 1,001,331; Aug. 22; Sp. p. 4592; Gaz. vol. 169; p. 831.
Gas-heater. J. Rubado. No. 982,879; Jan. 31; Sp. p. 5943; Gaz. vol. 162; p. 1042.
Gas-heater. C. Hohmann. No. 990,268; Apr. 25; Sp. p. 4245; Gaz. vol. 165; p. 757.
Gas-heater. W. Akin. No. 991,408; May 2; Sp. p. 1236; Gaz. vol. 166; p. 206.
Gas-heater. W. R. Kloeb. No. 991,727; May 9; Sp. p. 1947; Gaz. vol. 166; p. 349.
Gas-heater. A. S. Fuellgraff. No. 1,001,519; Aug. 22; Sp. p. 4942; Gaz. vol. 169; p. 893.
Gas-heater. F. C. Ludlow. No. 1,011,456; Dec. 12; Sp. p. 2363; Gaz. vol. 173; p. 404.
Gas-heater and chafing-dish holder. H. L. Austwick. No. 1,002,957; Sept. 12; Sp. p. 1739; Gaz. vol. 170; p. 301.
Gas-heater, Steam-boiler. W. Kane. No. 1,002,278; Sept. 5; Sp. p. 211; Gaz. vol. 170; p. 27.
Gas-heating burner, Bunsen. J. Borderel. No. 1,005,930; Oct. 17; Sp. p. 3000; Gaz. vol. 171; p. 540.
Gas-holder. O. H. Wenderoth. No. 984,869; Feb. 21; Sp. p. 3490; Gaz. vol. 163; p. 616.
Gas-igniter. C. B. Stilwell. No. 984,315; Feb. 14; Sp. p. 2311; Gaz. vol. 163; p. 391.
Gas-igniter. O. Thielbeule. No. 997,341; July 11; Sp. p. 1574; Gaz. vol. 168; p. 285.
Gas-igniting fixture, Electric. H. Younker. No. 987,339; Mar. 21; Sp. p. 3341; Gaz. vol. 164; p. 600.
Gas into contact with a liquid, Apparatus for bringing. H. T. Durant. No. 999,213; Aug. 1; Sp. p. 43; Gaz. vol. 169; p. 9.
Gas iron, Atmospheric-. H. A. Koenig. No. 986,397; Mar. 7; Sp. p. 1354; Gaz. vol. 164; p. 217.
Gas-light attachment. C. W. Groening. No. 992,654; May 16; Sp. p. 3911; Gaz. vol. 166; p. 697.
Gas-light, Inverted incandescent. V. H. Slinack. No. 988,217; Mar. 28; Sp. p. 5223; Gaz. vol. 164; p. 926.
Gas-lighter. F. J. Hall. No. 1,000,730; Aug. 15; Sp. p. 3265; Gaz. vol. 169; p. 590.
Gas-lighter. J. R. Brooks. No. 1,001,345; Aug. 22; Sp. p. 4623; Gaz. vol. 169; p. 836.
Gas-lighter. F. H. Pomeroy. No. 1,011,643; Dec. 12; Sp. p. 2840; Gaz. vol. 173; p. 473.
Gas lighter, Acetylene-. H. Van Hoevenberg. No. 1,008,287; Nov. 7; Sp. p. 1383; Gaz. vol. 172; p. 225.
Gas lighter and extinguisher, Automatic. F. W. Sherman. No. 989,654; Apr. 18; Sp. p. 2926; Gaz. vol. 165; p. 516.
Gas-lighter, Automobile. C. Elliott. No. 1,003,242; Sept. 12; Sp. p. 2331; Gaz. vol. 170; p. 400.
Gas-lighter, Electric. H. D. Grinnell. No. 1,010,897; Dec. 5; Sp. p. 1106; Gaz. vol. 173; p. 173.
Gas-lighter, Sparking. D. B. Carmichael. No. 997,489; July 11; Sp. p. 1846; Gaz. vol. 168; p. 333.
Gas lighting and extinguishing apparatus. E. H. Elton and R. Stephens. No. 994,140; June 6; Sp. p. 73; Gaz. vol. 167; p. 15.
Gas lighting and extinguishing apparatus, Pressure-operated. E. Sparks. No. 992,279; May 16; Sp. p. 3109; Gaz. vol. 166; p. 566.
Gas-lighting apparatus. R. M. Dixon. No. 986,369; Mar. 7; Sp. p. 1290; Gaz. vol. 164; p. 208.
Gas-lighting, Box for packing mantles for incandescent. H. Schmalland. No. 1,000,200; Aug. 8; Sp. p. 2092; Gaz. vol. 169; p. 373.
Gas-lighting burner. E. A. and E. N. Frary. No 1,001,192; Aug. 22; Sp. p. 4292; Gaz. vol. 169; p. 783
Gas-lighting device. J. M. Crowner. No. 1,010,119; Nov. 28; Sp. p. 5451; Gaz. vol. 172; p. 977.
Gas-lines, Cut-off for. H. C. Grimes. No. 1,000,799; Aug. 15; Sp. p. 3422; Gaz. vol. 169; p. 615.
Gas-liquefying apparatus. A. C. Wood. No. 984,875; Feb. 21; Sp. p. 3499; Gaz. vol. 163; p. 618.
Gas-liquefying apparatus for demonstration purposes. W. P. Schneider. No. 984,030; Feb. 14; Sp. p. 1703; Gaz. vol. 163; p. 293.
Gas-lock, Automatic safety. R. A. Mack. No. 1,008,839; Nov. 14; Sp. p. 2722; Gaz. vol. 172; p. 458.
Gas-log rest. E. S. Allen. No. 1,009,212; Nov. 21; Sp. p. 3539; Gaz. vol. 172; p. 620.
Gas-machine. B. Darlington and J. M. Call. No. 985,662; Feb. 28; Sp. p. 5210; Gaz. vol. 163; p. 921.
Gas-machines, Mechanical motor for. R. J. Walther. No. 982,321; Jan. 24; Sp. p. 4752; Gaz. vol. 162; p. 822.
Gas, Making. J. J. Nix. No. 986,495; Mar. 14; Sp. p. 1574; Gaz. vol. 164; p. 280.
Gas, Making. H. L. Doherty. No. 1,008,448; Nov. 14; Sp. p. 1857; Gaz. vol. 172; p. 320.
Gas, Making. H. L. Doherty. No. 1,008,450; Nov. 14; Sp. p. 1865; Gaz. vol. 172; p. 320.
Gas-mantles, Manufacture of incandescent. I. Kreidl. No. 980,802; Jan. 3; Sp. p. 1334; Gaz. vol. 162; p. 214.
Gas, Manufacture and distribution of. T. J. Weber and A. S. B. Little. No. 980,889; Jan. 3; Sp. p. 1544; Gaz. vol. 162; p. 244.
Gas, Manufacture of. G. H. Waring. No. 982,754; Jan. 24; Sp. p. 5658; Gaz. vol. 162; p. 969.
Gas-manufacturing apparatus. H. Pettibone. No. 1,007,385; Oct. 31; Sp. p. 6230; Gaz. vol. 171; p. 1134.
Gas-manufacturing apparatus, Producer-. G. C. Carson. No. 981,061; Jan. 10; Sp. p. 2040; Gaz. vol. 162; p. 335.
Gas-meter. C. T. Bard. No. 980,395; Jan. 3; Sp. p. 443; Gaz. vol. 162; p. 77.
Gas-meter. W. H. Knight. No. 987,379; Mar. 21; Sp. p. 3421; Gaz. vol. 164; p. 613.
Gas-meter. T. Glover. No. 988,186; Mar. 28; Sp. p. 5163; Gaz. vol. 164; p. 915.
Gas-meter. J. R. Armstrong. No. 991,927; May 9; Sp. p. 2343; Gaz. vol. 166; p. 417.
Gas-meter capacity-testing apparatus. T. Glover. No. 1,002,672; Sept. 5; Sp. p. 1083; Gaz. vol. 170; p. 163.
Gas-meter, Prepayment. E. A. Reeves. No. 1,000,626; Aug. 15; Sp. p. 3056; Gaz. vol. 169; p. 555.
Gas-meter registering mechanism. W. D. Cheshire and E. D. Weippert. No. 1,012,520; Dec. 19; Sp. p. 4693; Gaz. vol. 173; p. 806.
Gas-meter stuffing-box. A. B. Morton. No. 991,225; May 2; Sp. p. 843; Gaz. vol. 166; p. 143.
Gas-meter support or hanger. M. A. Corbett and F. E. Stevens. No. 988,930; Apr. 4; Sp. p. 1335; Gaz. vol. 165; p. 214.
Gas-meters, Detachable seamless diaphragm for. H. F. Frick. No. 984,268; Feb. 14; Sp. p. 2220; Gaz. vol. 163; p. 375.
Gas-meters, Frost-water shield for. A. J. Cockerell. No. 987,111; Mar. 21; Sp. p. 2816; Gaz. vol. 164; p. 518.
Gas-meters, Gas-saving attachment for. L. J. Hayden. No. 987,719; Mar. 28; Sp. p. 4148; Gaz. vol. 164; p. 758.
Gas, Method of and apparatus for making liquid. L. Wolf. No. 1,000,655; Aug. 15; Sp. p. 3117; Gaz. vol. 169; p. 565.
Gas-mixer. C. V. Pollock. No. 996,136; June 27; Sp. p. 4434; Gaz. vol. 167; p. 802.
Gas-mixer. E. McArdle. No. 998,297; July 18; Sp. p. 3711; Gaz. vol. 168; p. 661.
Gas mixture, Making a. G. A. Bronder. No. 992,106; May 9; Sp. p. 2671; Gaz. vol. 166; p. 476.
Gas-motor. S. G. Wigelius. No. 997,887; July 11; Sp. p. 2755; Gaz. vol. 168; p. 472.
Gas, Obtaining naphtha from natural. G. M. Saybolt. No. 989,927; Apr. 18; Sp. p. 3505; Gaz. vol. 165; p. 610.
Gas or combustion engine. L. Woodworth. No. 991,404; May 2; Sp. p. 1229; Gaz. vol. 166; p. 205.
Gas or oil engine. L. Woodworth. No. 991,405; May 2; Sp. p. 1231; Gaz. vol. 166; p. 205.
Gas package, Acetylene-. H. H. Buckman, Jr. No. 996,969; July 4; Sp. p. 777; Gaz. vol. 168; p. 127.
Gas-pipe safety attachment. E. R. Schoolfield. No. 992,069; May 9; Sp. p. 2607; Gaz. vol. 166; p. 464.
Gas-pipes, Dust-catcher for. T. Durnbaugh. No. 987,559; Mar. 21; Sp. p. 3768; Gaz. vol. 164; p. 673.
Gas plant and engine, Suction. T. H. and T. H. Oswald, Jr. No. 986,206; Mar. 7; Sp. p. 935; Gaz. vol. 164; p. 151.
Gas plants, Recovering acetic acid in producer-. W. J. Crossley and T. Rigby. No. 998,234; July 18; Sp. p. 3550; Gaz. vol. 168; p. 637.
Gas-power plants, Operating. H. Pettibone and C. L. Straub. No. 1,004,588; Oct. 3; Sp. p. 80; Gaz. vol. 171; p. 15.
Gas-pressure alarm, Automatic. E. R. Perkins. No. 1,009,338; Nov. 21; Sp. p. 3822; Gaz. vol. 172; p. 666.
Gas-pressure reducing and regulating mechanism. J. B. Hirst. No. 985,175; Feb. 28; Sp. p. 4148; Gaz. vol. 163; p. 754.
Gas-pressure regulator. G. M. S. Tait. No. 991,180; May 2; Sp. p. 749; Gaz. vol. 166; p. 127.
Gas-pressure regulator. E. J. Burns. No. 1,011,572; Dec. 12; Sp. p. 2662; Gaz. vol. 173; p. 447.
Gas, Process of and apparatus for making. E. B. Benham. No. 1,000,768; Aug. 15; Sp. p. 3345; Gaz. vol. 169; p. 604.
Gas-producer. C. F. Miller. No. 980,660; Jan. 3; Sp. p. 1058; Gaz. vol. 162; p. 167.
Gas-producer. G. P. Davis. No. 980,923; Jan. 10; Sp. p. 1657; Gaz. vol. 162; p. 286.
Gas-producer. B. Versen. No. 987,195; Mar. 21; Sp. p. 3040; Gaz. vol. 164; p. 551.
Gas-producer. K. J. Sundstrom. No. 989,661; Apr. 18; Sp. p. 2939; Gaz. vol. 165; p. 518.
Gas-producer. H. C. Perdue. No. 991,082; May 2; Sp. p. 530; Gaz. vol. 166; p. 91.
Gas-producer. F. Fielden. No. 992,491; May 16; Sp. p. 3576; Gaz. vol. 166; p. 641.

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Gas-producer. J. A. Waldburger. No. 992,523; May 16; Sp. p. 3639; Gaz. vol. 166; p. 653.
Gas-producer. J. Stewart. No. 992,615; May 16; Sp. p. 3843; Gaz. vol. 166; p. 684.
Gas-producer. R. V. Farnham. No. 993,160; May 23; Sp. p. 4994; Gaz. vol. 166; p. 903.
Gas-producer. W. B. Chapman. No. 995,586; June 20; Sp. p. 3264; Gaz. vol. 167; p. 576.
Gas-producer. B. M. Aslakson. No. 996,603; July 4; Sp. p. 4; Gaz. vol. 168; p. 3.
Gas-producer. R. V. Farnham. No. 996,628; July 4; Sp. p. 75; Gaz. vol. 168; p. 13.
Gas-producer. A. S. Cambridge. No. 997,962; July 18; Sp. p. 2940; Gaz. vol. 168; p. 540.
Gas-producer. J. R. George. No. 998,168; July 18; Sp. p. 3396; Gaz. vol. 168; p. 613.
Gas-producer. J. A. Herrick. No. 998,614; July 25; Sp. p. 4380; Gaz. vol. 168; p. 802.
Gas-producer. G. Steinl. No. 998,809; July 25; Sp. p. 4828; Gaz. vol. 168; p. 872.
Gas-producer. W. B. Chapman. No. 999,698; Aug. 1; Sp. p. 981; Gaz. vol. 169; p. 172.
Gas-producer. J. A. Herrick. No. 999,784; Aug. 8; Sp. p. 1172; Gaz. vol. 169; p. 231.
Gas-producer. H. I. Lea. No. 999,807; Aug. 8; Sp. p. 1215; Gaz. vol. 169; p. 238.
Gas-producer. J. A. Herrick. No. 1,001,398; Aug. 22; Sp. p. 4733; Gaz. vol. 169; p. 854.
Gas-producer. S. M. Quinn. No. 1,002,311; Sept. 5; Sp. p. 285; Gaz. vol. 170; p. 40.
Gas-producer. G. H. Isley. No. 1,002,697; Sept. 5; Sp. p. 1137; Gaz. vol. 170; p. 172.
Gas-producer. S. B. Sheldon. No. 1,003,524; Sept. 19; Sp. p. 2899; Gaz. vol. 170; p. 530.
Gas-producer. A. Rusbatch. No. 1,006,797; Oct. 24; Sp. p. 4933; Gaz. vol. 171; p. 873.
Gas-producer. E. Rathbun. No. 1,007,797; Nov. 7; Sp. p. 337; Gaz. vol. 172; p. 53.
Gas-producer. N. Latta. No. 1,008,480; Nov. 14; Sp. p. 1942; Gaz. vol. 172; p. 332.
Gas-producer. A. M. Levin. No. 1,008,833; Nov. 14; Sp. p. 2707; Gaz. vol. 172; p. 455.
Gas-producer. O. A. Gobbe. No. 1,009,064; Nov. 21; Sp. p. 3208; Gaz. vol. 172; p. 568.
Gas-producer. A. B. Duff. No. 1,010,242; Nov. 28; Sp. p. 5694; Gaz. vol. 172; p. 1017.
Gas-producer. W. B. Chapman. No. 1,011,578; Dec. 12; Sp. p. 2681; Gaz. vol. 173; p. 450.
Gas-producer apparatus. J. A. Herrick. No. 1,001,953; Aug. 29; Sp. p. 5912; Gaz. vol. 169; p. 1071.
Gas-producer apparatus. J. A. Herrick. No. 1,004,024; Sept. 26; Sp. p. 4039; Gaz. vol. 170; p. 729.
Gas-producer apparatus. J. A. Herrick. No. 1,005,210; Oct. 10; Sp. p. 1367; Gaz. vol. 171; p. 252.
Gas-producer-feeding apparatus. L. Lee. No. 992,431; May 16; Sp. p. 3451; Gaz. vol. 166; p. 621.
Gas-producer-feeding mechanism. G. H. Isley. No. 984,675; Feb. 21; Sp. p. 3088; Gaz. vol. 163; p. 547.
Gas-producer head. G. Gray. No. 984,213; Feb. 14; Sp. p. 2097; Gaz. vol. 163; p. 356.
Gas-producer system. G. Akerlund. No. 992,840; May 23; Sp. p. 4305; Gaz. vol. 166; p. 793.
Gas-producer systems, Saturating means for. C. A. Harvey. No. 994,390; June 6; Sp. p. 611; Gaz. vol. 167; p. 104.
Gas producer, Water-. B. Spitzer. No. 981,708; Jan. 17; Sp. p. 3424; Gaz. vol. 162; p. 580.
Gas-producers and heating apparatus, Fuel-feeder for. N. Lallié. No. 998,699; July 25; Sp. p. 4570; Gaz. vol. 168; p. 833.
Gas-producers, Automatic poker for. W. F. Rust. No. 1,008,494; Nov. 14; Sp. p. 1963; Gaz. vol. 172; p. 336.
Gas-producers, Charging means for. N. H. Henderson. No. 1,005,832; Oct. 17; Sp. p. 2760; Gaz. vol. 171; p. 503.
Gas-producers, Operating. C. Barmore, Jr. No. 1,012,120; Dec. 19; Sp. p. 3889; Gaz. vol. 173; p. 673.
Gas-producers, Stirrer for. J. C. Cromwell. No. 1,001,509; Aug. 22; Sp. p. 4925; Gaz. vol. 169; p. 890.
Gas-producers, Water-regulator for suction. E. Lundgren. No. 985,818; Mar. 7; Sp. p. 98; Gaz. vol. 164; p. 21.
Gas-producers, Working updraft. J. Fielding. No. 986,374; Mar. 7; Sp. p. 1298; Gaz. vol. 164; p. 210.
Gas producing and consuming apparatus. H. L. Doherty. No. 990,714; Apr. 25; Sp. p. 5284; Gaz. vol. 165; p. 911.
Gas producing and consuming apparatus. H. L. Doherty. No. 993,322; May 23; Sp. p. 5322; Gaz. vol. 166; p. 954.
Gas-producing apparatus. L. H. Upton. No. 1,011,530; Dec. 12; Sp. p. 2547; Gaz. vol. 173; p. 431.
Gas-producing apparatus, Regulating pressure in. H. L. Doherty. No. 1,008,449; Nov. 14; Sp. p. 1862; Gaz. vol. 172; p. 320.
Gas-producing apparatus, Regulation of the temperature of the fuel-bed in. H. L. Doherty. No. 990,713; Apr. 25; Sp. p. 5280; Gaz. vol. 165; p. 911.
Gas-producing furnace. E. von Maltitz and H. B. Barnhart. No. 988,580; Apr. 4; Sp. p. 629; Gaz. vol. 165; p. 101.
Gas-purifier. C. E. Speer. No. 995,103; June 13; Sp. p. 2208; Gaz. vol. 167; p. 384.
Gas-purifier. J. P. Farmer. No. 999,973; Aug. 8; Sp. p. 1564; Gaz. vol. 169; p. 295.
Gas-purifier. J. P. Dovel. No. 1,001,738; Aug. 29; Sp. p. 5420; Gaz. vol. 169; p. 999.
Gas-purifying apparatus, Acetylene-. H. Knapp. No. 1,004,661; Oct. 3; Sp. p. 234; Gaz. vol. 171; p. 41.
Gas, Purifying burner-. C. L. Reese. No. 989,801; Apr. 18; Sp. p. 3245; Gaz. vol. 165; p. 567.
Gas-regulator. W. A. Baehr. No. 986,343; Mar. 7; Sp. p. 1219; Gaz. vol. 164; p. 197.
Gas-regulator. C. W. Harrison and A. C. Noad. No. 987,459; Mar. 21; Sp. p. 3599; Gaz. vol. 164; p. 641.
Gas-regulator. F. M. Brooks. No. 1,004,625; Oct. 3; Sp. p. 166; Gaz. vol. 171; p. 29.
Gas-regulator. R. H. Thomas. No. 1,013,083; Dec. 26; Sp. p. 5978; Gaz. vol. 173; p. 1046.
Gas regulator and cut-off, Combined. J. J. Heitz. No. 993,164; May 23; Sp. p. 5011; Gaz. vol. 166; p. 904.
Gas-regulator, Automatic. W. A. Baehr. No. 986,344; Mar. 7; Sp. p. 1222; Gaz. vol. 164; p. 198.
Gas-regulators, Attachment to auto. A. D. Purtle. No. 1,001,683; Aug. 29; Sp. p. 5306; Gaz. vol. 169; p. 980.
Gas-retort bench. H. Burgi. No. 1,000,987; Aug. 22; Sp. p. 3848; Gaz. vol. 169; p. 714.
Gas-retort discharging and charging machine. A. A. Guest and W. P. Gibbons. No. 1,009,739; Nov. 28; Sp. p. 4671; Gaz. vol. 172; p. 848.
Gas-scrubber. W. H. Frost. No. 998,491; July 18; Sp. p. 4107; Gaz. vol. 168; p. 728.
Gas-scrubber. G. M. S. Tait. No. 998,930; July 25; Sp. p. 5102; Gaz. vol. 168; p. 915.
Gas-supply for calorimetric and other purposes, Apparatus for producing a constant. H. Fahrenheim. No. 994,990; June 13; Sp. p. 1976; Gaz. vol. 167; p. 345.
Gas, System and apparatus for generating and burning oil-. F. J. Orr. No. 1,013,050; Dec. 26; Sp. p. 4910; Gaz. vol. 173; p. 1034.
Gas-tank absorbent filler. W. J. Moeller. No. 1,011,988; Dec. 19; Sp. p. 3574; Gaz. vol. 173; p. 625.
Gas-taps from a distance, Device for opening and closing. B. C. H. Pegler. No. 982,861; Jan. 31; Sp. p. 5903; Gaz. vol. 162; p. 1036.
Gas-tester. J. E. Carney. No. 986,685; Mar. 14; Sp. p. 1969; Gaz. vol. 164; p. 347.
Gas to burners, Automatic apparatus for controlling the supply of. R. B. North. No. 982,384; Jan. 24; Sp. p. 4882; Gaz. vol. 162; p. 845.
Gas to gas-burners and for igniting the same, Means for controlling the supply of. A. Giorgi. No. 994,670; June 6; Sp. p. 1204; Gaz. vol. 167; p. 196.
Gas, Treating distillation-gases to produce an illuminating liquefied. H. Blau. No. 994,369; June 6; Sp. p. 559; Gaz. vol. 167; p. 96.
Gas-tube tip. A. W. Nicholls. No. 1,004,678; Oct. 3; Sp. p. 271; Gaz. vol. 171; p. 47.
Gas-tube tip. A. W. Nicholls. No. 1,006,588; Oct. 24; Sp. p. 4502; Gaz. vol. 171; p. 802.
Gas-valve, Automatic. W. B. Stoudt. No. 993,625; May 30; Sp. p. 6005; Gaz. vol. 166; p. 1092.
Gas-washer. W. B. Chapman. No. 992,706; May 16; Sp. p. 4006; Gaz. vol. 166; p. 715.
Gas-washer. J. P. Dovel. No. 1,001,739; Aug. 29; Sp. p. 5424; Gaz. vol. 169; p. 999.
Gas-washer. N. Latta. No. 1,002,810; Sept. 5; Sp. p. 1385; Gaz. vol. 170; p. 211.
Gas-washer, Rotary. A. Stolte. No. 988,908; Apr. 4; Sp. p. 1290; Gaz. vol. 165; p. 207.
Gas-works regulator. G. C. Hicks, Jr. No. 1,008,334; Nov. 14; Sp. p. 1530; Gaz. vol. 172; p. 280.
Gases and preparing char-peat, Treating blast-furnace. B. Loomis. No. 990,891; May 2; Sp. p. 134; Gaz. vol. 166; p. 25.
Gases, Apparatus for determining dust and moisture in. L. A. Touzalin. No. 984,047; Feb. 14; Sp. p. 1730; Gaz. vol. 163; p. 298.
Gases, Apparatus for purifying furnace-. U. Wedge. No. 1,012,488; Dec. 19; Sp. p. 4636; Gaz. vol. 173; p. 795.
Gases, Apparatus for the treatment of solid bodies with. W. Mathesius. No. 1,003,628; Sept. 19; Sp. p. 3144; Gaz. vol. 170; p. 567.
Gases, Device for cleansing and deodorizing consumption-. O. Kiesel. No. 995,353; June 13; Sp. p. 2727; Gaz. vol. 167; p. 466.
Gases, Device for taking moisture or other vapors out of. H. W. Arnold. No. 985,966; Mar. 7; Sp. p. 452; Gaz. vol. 164; p. 72.
Gases for rapidly freeing them from dust or smoke held in suspension therein, Washing. P. Kestner. No. 991,157; May 2; Sp. p. 705; Gaz. vol. 166; p. 119.
Gases for removing carbon monoxid therefrom and replacing it by hydrogen, Treatment of. E. Ellenberger. No. 989,955; Apr. 18; Sp. p. 3571; Gaz. vol. 165; p. 619.
Gases from internal-combustion engines, Deodorizing exhaust-. L. Bregha. No. 996,205; June 27; Sp. p. 4631; Gaz. vol. 167; p. 826.
Gases given off in the destructive distillation of coal, &c, Treatment of. G. Hilgenstock. No. 994,315; June 6; Sp. p. 433; Gaz. vol. 167; p. 75.
Gases in upright retorts, Producing. C. Bolz. No. 989,324; Apr. 11; Sp. p. 2198; Gaz. vol. 165; p. 373.

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Gases, Means for electric-arc reactions on. O. Weber and G. Schreiber. No. 981,727; Jan. 17; Sp. p. 3462; Gaz. vol. 162; p. 587.
Gases, Method of and apparatus for altering the condition of. K. Ahlquist. No. 1,008,576; Nov. 14; Sp. p. 2155; Gaz. vol. 172; p. 367.
Gases of high oxidizing efficiency, Production of. C. Hornbostel. No. 984,221; Feb. 14; Sp. p. 2109; Gaz. vol. 163; p. 358.
Gases of internal-combustion engines, Apparatus for deodorizing the exhaust-. J. A. Lemberg. No. 991,861; May 9; Sp. p. 2205; Gaz. vol. 166; p. 394.
Gases or liquids, Electrical means for automatically controlling the flow of. A. F. Shepherd. No. 995,036; June 13; Sp. p. 2064; Gaz. vol. 167; p. 361.
Gases or vapors, Apparatus for absorbing. P. Schou. No. 1,001,460; Aug. 22; Sp. p. 4843; Gaz. vol. 169; p. 873.
Gases or vapors to the action of liquids, Apparatus for subjecting. W. Feld. No. 983,037; Jan. 31; Sp. p. 6298; Gaz. vol. 162; p. 1094.
Gases produced in the smelting or treatment of ores, Apparatus for treating acidulous. C. B. Sprague. No. 992,391; May 16; Sp. p. 3374; Gaz. vol. 166; p. 608.
Gases, Production of reactions in. O. Schönherr and J. Hessberger. No. 991,174; May 2; Sp. p. 739; Gaz. vol. 166; p. 125.
Gases, Removing deleterious. P. H. Thomas. No. 981,497; Jan. 10; Sp. p. 2995; Gaz. vol. 162; p. 487.
Gases resulting from reduction operations carried out in electric furnaces, and electric furnace for carrying out the same, Utilizing. A. Helfenstein. No. 1,002,988; Sept. 12; Sp. p. 1795; Gaz. vol. 170; p. 311.
Gaseous fluids, Apparatus for separating solid particles from. E. G. Spilsbury. No. 994,282; June 6; Sp. p. 371; Gaz. vol. 167; p. 63.
Gasometer. E. Hohmann. No. 995,601; June 20; Sp. p. 3302; Gaz. vol. 167; p. 581.
Gassing apparatus. J. O. McKean. No. 1,011,356; Dec. 12; Sp. p. 2172; Gaz. vol. 173; p. 370.
Gaskets in manhole-frames, Forming metallic. H. Jones. No. 995,015; June 13; Sp. p. 2025; Gaz. vol. 167; p. 354.
Gasolene-burner. A. S. Freeman. No. 995,856; June 20; Sp. p. 3862; Gaz. vol. 167; p. 671.
Gasolene-can. E. O'Connor. No. 989,865; Apr. 18; Sp. p. 3372; Gaz. vol. 165; p. 588.
Gasolene-engine, Two-cycle. F. Howes. No. 983,369; Feb. 7; Sp. p. 243; Gaz. vol. 163; p. 41.
Gasolene-separator. J. F. Lowery. No. 989,620; Apr. 18; Sp. p. 2854; Gaz. vol. 165; p. 505.
Gasolene-separator. J. Buhr. No. 995,521; June 20; Sp. p. 3108; Gaz. vol. 167; p. 553.
Gasolene-tank. W. F. Schwiesow. No. 994,793; June 13; Sp. p. 1517; Gaz. vol. 167; p. 279.
Gasolene-tanks, Electric low-level signal for. O. C. Carr. No. 988,859; Apr. 4; Sp. p. 1200; Gaz. vol. 165; p. 192.
Gasolene-tanks, Lubricating attachment for. G. W. Marsh. No. 1,010,288; Nov. 28; Sp. p. 5794; Gaz. vol. 172; p. 1032.
Gate: *See* Automatic gate; Bridge safety-gate; Car partition-gate; Collapsible gate; Ditch-gate; Ditching-gate; Drainage-gate; Elevator-gate; Elevator safety-gate; End-gate; Farm-gate; Fence-gate; Flume-gate; Head-gate; Irrigation-gate; Mine-gate; Railway-gate; Railway-crossing gate; Railway-crossing automatic gate; Safety-gate; Sliding gate; Sluice-gate; Swinging gate; Tank-gate; Water-gate; Wire gate.
Gate. W. W. Nickell. No. 980,326; Jan. 3; Sp. p. 284; Gaz. vol. 162; p. 52.
Gate. H. E. Brummel. No. 981,161; Jan. 10; Sp. p. 2245; Gaz. vol. 162; p. 371.
Gate. N. Durbin. No. 981,397; Jan. 10; Sp. p. 2784; Gaz. vol. 162; p. 453.
Gate. T. A. Hill. No. 983,229; Jan. 31; Sp. p. 6669; Gaz. vol. 162; p. 1159.
Gate. P. Otto. No. 984,389; Feb. 14; Sp. p. 2455; Gaz. vol. 163; p. 415.
Gate. J. E. Corbin. No. 985,325; Feb. 28; Sp. p. 4479; Gaz. vol. 163; p. 806.
Gate. E. Cowell. No. 986,269; Mar. 7; Sp. p. 1073; Gaz. vol. 164; p. 172.
Gate. C. A. Sandborg. No. 989,878; Apr. 18; Sp. p. 3398; Gaz. vol. 165; p. 593.
Gate. V. Hoxie. No. 990,134; Apr. 18; Sp. p. 3929; Gaz. vol. 165; p. 678.
Gate. C. A. Hale. No. 990,435; Apr. 25; Sp. p. 4654; Gaz. vol. 165; p. 818.
Gate. B. Harmon. No. 993,245; May 23; Sp. p. 5173; Gaz. vol. 166; p. 929.
Gate. H. G. Schenck. No. 993,278; May 23; Sp. p. 5234; Gaz. vol. 166; p. 939.
Gate. F. U. McGilvray. No. 994,177; June 6; Sp. p. 151; Gaz. vol. 167; p. 27.
Gate. P. Voorhees. No. 994,488; June 6; Sp. p. 784; Gaz. vol. 167; p. 134.
Gate. W. C. Folsom. No. 995,338; June 13; Sp. p. 2686; Gaz. vol. 167; p. 461.
Gate. E. Border. No. 998,459; July 18; Sp. p. 4044; Gaz. vol. 168; p. 717.
Gate. P. N. Swanson. No. 999,906; Aug. 8; Sp. p. 1431; Gaz. vol. 169; p. 272.
Gate. J. Shuber. No. 1,001,464; Aug. 22; Sp. p. 4848; Gaz. vol. 169; p. 875.
Gate. J. W. Kraus. No. 1,007,453; Oct. 31; Sp. p. 6375; Gaz. vol. 171; p. 1157.
Gate. H. D. Kintner. No. 1,009,152; Nov. 21; Sp. p. 3374; Gaz. vol. 172; p. 597.
Gate. J. M. Sweeney. No. 1,009,866; Nov. 28; Sp. p. 4932; Gaz. vol. 172; p. 891.
Gate. H. E. Brummel. No. 1,011,569; Dec. 12; Sp. p. 2655; Gaz. vol. 173; p. 446.
Gate. E. E. Hanken. No. 1,012,846; Dec. 26; Sp. p. 5456; Gaz. vol. 173; p. 966.
Gate-controlling mechanism for openings in buildings. F. L. Skinner. No. 1,006,302; Oct. 17; Sp. p. 3825; Gaz. vol. 171; p. 670.
Gate-fastener. W. C. Neel. No. 982,010; Jan. 17; Sp. p. 4116; Gaz. vol. 162; p. 687.
Gate-fastener. R. O. Lewis. No. 987,469; Mar. 21; Sp. p. 3615; Gaz. vol. 164; p. 644.
Gate fastener, Wire-. D. E. Ryckman. No. 996,368; June 27; Sp. p. 5005; Gaz. vol. 167; p. 881.
Gate for stopping runaway animals. G. W. Beal. No. 992,329; May 16; Sp. p. 3225; Gaz. vol. 166; p. 585.
Gate-hanger. F. P. Berndt. No. 992,637; May 16; Sp. p. 3885; Gaz. vol. 166; p. 692.
Gate-opener. D. L. Roe. No. 990,010; Apr. 18; Sp. p. 3686; Gaz. vol. 165; p. 639.
Gate-opener. T. T. Hazard. No. 1,009,511; Nov. 21; Sp. p. 4221; Gaz. vol. 172; p. 726.
Gate-operating device. W. T. Wyckoff. No. 1,003,571; Sept. 19; Sp. p. 3032; Gaz. vol. 170; p. 546.
Gate-operating mechanism. H. Warden and W. N. Underwood. No. 998,311; July 18; Sp. p. 3751; Gaz. vol. 168; p. 666.
Gate-operating mechanism. S. Wilson. No. 1,011,300; Dec. 12; Sp. p. 2035; Gaz. vol. 173; p. 350.
Gate-register-actuating means. P. T. Handiges. No. 980,250; Jan. 3; Sp. p. 136; Gaz. vol. 162; p. 27.
Gathering implement. C. Lovett. No. 1,005,247; Oct. 10; Sp. p. 1461; Gaz. vol. 171; p. 266.
Gear. E. J. Frost. No. 998,686; July 25; Sp. p. 4547; Gaz. vol. 168; p. 829.
Gear. M. Dumont. No. 1,002,236; Sept. 5; Sp. p. 103; Gaz. vol. 170; p. 12.
Gear-box, Automatically-locked. N. Roe. No. 1,006,405; Oct. 17; Sp. p. 4050; Gaz. vol. 171; p. 706.
Gear-case. J. E. Webster. No. 985,481; Feb. 28; Sp. p. 4849; Gaz. vol. 163; p. 860.
Gear-casing. A. Plagman. No. 998,035; July 18; Sp. p. 3113; Gaz. vol. 168; p. 566.
Gear-casing. J. M. Thompson. No. 1,006,026; Oct. 17; Sp. p. 3189; Gaz. vol. 171; p. 572.
Gear-casing for driving and steering wheels. J. Berends. No. 990,798; Apr. 25; Sp. p. 5463; Gaz. vol. 165; p. 940.
Gear, Change-speed. J. M. I. Girin. No. 982,666; Jan. 24; Sp. p. 5460; Gaz. vol. 162; p. 942.
Gear-changing device. A. M. Irish. No. 1,010,054; Nov. 28; Sp. p. 5326; Gaz. vol. 172; p. 955.
Gear-cutter. A. R. Murray. No. 1,007,376; Oct. 31; Sp. p. 6201; Gaz. vol. 171; p. 1131.
Gear-cutting machine. T. Fawcus and A. F. Cooke. No. 980,232; Jan. 3; Sp. p. 106; Gaz. vol. 162; p. 21.
Gear-cutting machine. C. E. Bilton. No. 991,464; May 2; Sp. p. 1360; Gaz. vol. 166; p. 226.
Gear, Differential. J. L. Pribble. No. 988,662; Apr. 4; Sp. p. 800; Gaz. vol. 165; p. 129.
Gear, Fishing-. B. Ford. No. 1,002,981; Sept. 12; Sp. p. 1782; Gaz. vol. 170; p. 308.
Gear for power transmission, Hydraulic variable. A. Sundh. No. 986,780; Mar. 14; Sp. p. 2163; Gaz. vol. 164; p. 377.
Gear, Friction transmission-. J. C. Mackey. No. 1,011,217; Dec. 12; Sp. p. 1841; Gaz. vol. 173; p. 319.
Gear, Gapped. W. T. Sears. No. 987,920; Mar. 28; Sp. p. 4599; Gaz. vol. 164; p. 827.
Gear-generating machine. E. R. Fellows. No. 982,581; Jan. 24; Sp. p. 5295; Gaz. vol. 162; p. 913.
Gear, Geneva. J. B. Reimund. No. 982,874; Jan. 31; Sp. p. 5935; Gaz. vol. 162; p. 1041.
Gear-hobbing machine. W. P. Hunt. No. 1,012,643; Dec. 26; Sp. p. 4980; Gaz. vol. 173; p. 895.
Gear mechanism, Change-. A. E. Schmidt. No. 995,915; June 20; Sp. p. 3976; Gaz. vol. 167; p. 690.
Gear mechanism, Planetary-. L. S. Clarke. No. 980,407; Jan. 3; Sp. p. 471; Gaz. vol. 162; p. 81.
Gear mechanism, Power-transmitting. E. A. Johnston and C. I. Longenecker. No. 1,004,880; Oct. 3; Sp. p. 737; Gaz. vol. 171; p. 118.
Gear mechanism, Reversing-. F. A. Froehlich. No. 994,739; June 13; Sp. p. 1404; Gaz. vol. 167; p. 261.
Gear mechanism, Variable-speed driving-. W. Evensen. No. 988,560; Apr. 4; Sp. p. 573; Gaz. vol. 165; p. 92.
Gear-operating mechanism, Change-. G. A. Eddy. No. 1,002,503; Sept. 5; Sp. p. 721; Gaz. vol. 170; p. 106.
Gear, Radial-draft. H. T. Krakau. No. 984,937; Feb. 21; Sp. p. 3623; Gaz. vol. 163; p. 639.
Gear-shifting and brake-applying mechanism. B. T. Epps. No. 996,572; June 27; Sp. p. 5427; Gaz. vol. 167; p. 949.
Gear, Sliding crank-. E. Albert. No. 1,009,621; Nov. 21; Sp. p. 4421; Gaz. vol. 172; p. 762.

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Gear transmission mechanism, Sliding-. A. Winton and H. B. Anderson. No. 990,618; Apr. 25; Sp. p. 5050; Gaz. vol. 165; p. 880.
Gear, Variable-fluid. H. F. J. Porter. No. 985,835; Mar. 7; Sp. p. 151; Gaz. vol. 164; p. 27
Gear-wheel. K. F. Elers. No. 985,518; Feb. 28; Sp. p. 4928; Gaz. vol. 163; p. 873.
Gear-wheel. H. E. Stratton. No. 995,387; June 13; Sp. p. 2800; Gaz. vol. 167; p. 477.
Gears, Means for removing air from hydraulic transmission-. R. Eisermann. No. 985,986; Mar. 7; Sp. p. 508; Gaz. vol. 164; p. 80.
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Gearing. D. M. Wenger. No. 982,327; Jan. 24; Sp. p. 4764; Gaz. vol. 162; p. 825.
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Gearing. B. A. Stowe. No. 988,043; Mar. 28; Sp. p. 4902; Gaz. vol. 164; p. 870.
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Gearing. E. A. Johnston. No. 989,712; Apr. 18; Sp. p. 3041; Gaz. vol. 165; p. 536.
Gearing. J. Du Shane. No. 990,195; Apr. 18; Sp. p. 4069; Gaz. vol. 165; p. 699.
Gearing. J. P. Lavigne. No. 993,326; May 23; Sp. p. 5334; Gaz. vol. 166; p. 956.
Gearing. I. S. Freeman. No. 994,073; May 30; Sp. p. 6926; Gaz. vol. 166; p. 1244.
Gearing. P. Daimler. No. 994,130; June 6; Sp. p. 56; Gaz. vol. 167; p. 12.
Gearing. H. Baerbalck. No. 994,899; June 13; Sp. p. 1788; Gaz. vol. 167; p. 315.
Gearing. W. H. Ray. No. 996,426; June 27; Sp. p. 5150; Gaz. vol. 167; p. 902.
Gearing. A. Bauschlicher. No. 996,605; July 4; Sp. p. 12; Gaz. vol. 168; p. 4.
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Gearing. C. T. McCue. No. 1,002,858; Sept. 12; Sp. p. 1501; Gaz. vol. 170; p. 265.
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Gearing. R. C. Sayer. No. 1,004,205; Sept. 26; Sp. p. 4483; Gaz. vol. 170; p. 794.
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Gearing. P. Lord. No. 1,007,584; Oct. 31; Sp. p. 6673; Gaz. vol. 171; p. 1202.
Gearing. H. H. Holden. No. 1,008,150; Nov. 7; Sp. p. 1071; Gaz. vol. 172; p. 175.
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Gearing. J. G. Heaslet. No. 1,010,628; Dec. 5; Sp. p. 515; Gaz. vol. 173; p. 80.
Gearing. R. D. Tittle. No. 1,010,705; Dec. 5; Sp. p. 669; Gaz. vol. 173; p. 108.
Gearing. W. A. Greaves. No. 1,010,748; Dec. 5; Sp. p. 783; Gaz. vol. 173; p. 122.
Gearing. J. W. Freeman. No. 1,011,180; Dec. 12; Sp. p. 1758; Gaz. vol. 173; p. 307.
Gearing. F. C. Cave. No. 1,011,409; Dec. 12; Sp. p. 2263; Gaz. vol. 173; p. 386.
Gearing. J. W. and H. R. Barclay. No. 1,012,119; Dec. 19; Sp. p. 3887; Gaz. vol. 173; p. 672.
Gearing, Automatic reversible. O. G. Pfeiffer. No. 991,359; May 2; Sp. p. 1141; Gaz. vol. 166; p. 190.
Gearing, Automatic reversing-. O. G. Pfeiffer. No. 981,940; Jan. 17; Sp. p. 3974; Gaz. vol. 162; p. 663.
Gearing, Belt-. C. D. Rice. No. 981,390; Jan. 10; Sp. p. 2771; Gaz. vol. 162; p. 451.
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Gearing, Belt-. F. B. Fischer. No. 994,507; June 6; Sp. p. 833; Gaz. vol. 167; p. 140.
Gearing, Change-speed. D. M. Smith. No. 983,864; Feb. 7; Sp. p. 1309; Gaz. vol. 163; p. 208.
Gearing, Change-speed. W. T. Carter. No. 985,511; Feb. 28; Sp. p. 4909; Gaz. vol. 163; p. 870.
Gearing, Change-speed. C. Cotta. No. 986,444; Mar. 14; Sp. p. 1455; Gaz. vol. 164; p. 262.
Gearing, Change-speed. L. A. Peterson. No. 988,025; Mar. 28; Sp. p. 4854; Gaz. vol. 164; p. 863.
Gearing, Change-speed. J. A. Leland. No. 988,723; Apr. 4; Sp. p. 938; Gaz. vol. 165; p. 149.
Gearing, Change-speed. M. N. Viratelle. No. 990,824; Apr. 25; Sp. p. 5511; Gaz. vol. 165; p. 949.
Gearing, Change-speed. W. H. Parsons. No. 992,044; May 9; Sp. p. 2559; Gaz. vol. 166; p. 455.
Gearing, Change-speed. A. Rosenstein. No. 1,002,455; Sept. 5; Sp. p. 625; Gaz. vol. 170; p. 89.
Gearing, Change-speed and reversing. W. J. Vincent. No. 1,007,756; Nov. 7; Sp. p. 234; Gaz. vol. 172; p. 38.
Gearing control mechanism, Change-speed-. H. T. Thomas. No. 1,002,188; Aug. 29; Sp. p. 6346; Gaz. vol. 169; p. 1147.
Gearing-controlling means, Transmission-. C. W. Parker. No. 983,249; Jan. 31; Sp. p. 6717; Gaz. vol. 162; p. 1165.
Gearing, Differential. J. G. Heaslet. No. 1,006,847; Oct. 24; Sp. p. 5058; Gaz. vol. 171; p. 892.
Gearing for embroidery or similar machines. P. Schnorr. No. 996,887; July 4; Sp. p. 594; Gaz. vol. 168; p. 98.
Gearing, Frame for frictional change-of-speed. L. C. Arnaud. No. 1,012,792; Dec. 26; Sp. p. 5321; Gaz. vol. 173; p. 947.
Gearing, Friction-. L. N. Lacombe. No. 1,011,629; Dec. 12; Sp. p. 2808; Gaz. vol. 173; p. 468.
Gearing, Friction transmission-. G. R. Eaton. No. 986,811; Mar. 14; Sp. p. 2240; Gaz. vol. 164; p. 388.
Gearing, Frictional. M. Tarrisse. No. 982,104; Jan. 17; Sp. p. 4303; Gaz. vol. 162; p. 717.
Gearing, Frictional. A. C. Long. No. 987,308; Mar. 21; Sp. p. 3285; Gaz. vol. 164; p. 590.
Gearing, Incased. E. M. Wheelock. No. 986,614; Mar. 14; Sp. p. 1821; Gaz. vol. 164; p. 323.
Gearing, Lathe-. R. K. Le Blond and W. F. Groene. No. 980,974; Jan. 10; Sp. p. 1823; Gaz. vol. 162; p. 304.
Gearing, Lathe, &c. R. K. Le Blond and W. F. Groene. No. 980,973; Jan. 10; Sp. p. 1821; Gaz. vol. 162; p. 303.
Gearing-lubricating system. J. A. Filsinger. No. 1,004,762; Oct. 3; Sp. p. 466; Gaz. vol. 171; p. 77.
Gearing, Making. A. Johnson. No. 985,905; Mar. 7; Sp. p. 315; Gaz. vol. 164; p. 51.
Gearing, Making sheet-metal. A. Johnston. No. 988,106; Mar. 28; Sp. p. 5023; Gaz. vol. 164; p. 891.
Gearing, Power-transmission. W. C. Kirk. No. 983,452; Feb. 7; Sp. p. 420; Gaz. vol. 163; p. 67.
Gearing, Reversible transmission-. C. M. Rhodes. No. 982,530; Jan. 24; Sp. p. 5200; Gaz. vol. 162; p. 896.
Gearing, Reversing-. R. E. Rosewarne. No. 981,005; Jan. 10; Sp. p. 1908; Gaz. vol. 162; p. 315.
Gearing, Reversing-. A. E. Schmidt. No. 985,845; Mar. 7; Sp. p. 183; Gaz. vol. 164; p. 30.
Gearing, Reversing-. W. W. Henderson. No. 986,631; Mar. 14; Sp. p. 1851; Gaz. vol. 164; p. 329.
Gearing, Reversing-. S. M. Wood. No. 996,189; June 27; Sp. p. 4603; Gaz. vol. 167; p. 821.
Gearing, Shift transmission-. H. C. Dreisvogt. No. 983,217; Jan. 31; Sp. p. 6635; Gaz. vol. 162; p. 1154.
Gearing, Speed-. R. L. Wilhelm. No. 988,235; Mar. 28; Sp. p. 5259; Gaz. vol. 164; p. 932.
Gearing, Speed-changing. A. Lavoix. No. 992,783; May 23; Sp. p. 4179; Gaz. vol. 166; p. 772.
Gearing, Speed-transmission. C. W. Hering. No. 980,948; Jan. 10; Sp. p. 1705; Gaz. vol. 162; p. 294.
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Gearing, Transmission-. G. B. Pilkington. No. 990,386; Apr. 25; Sp. p. 4531; Gaz. vol. 165; p. 799.
Gearing, Transmission-. F. H. Jones. No. 991,318; May 2; Sp. p. 1058; Gaz. vol. 166; p. 177.
Gearing, Transmission-. W. W. Henderson. No. 991,983; May 9; Sp. p. 2450; Gaz. vol. 166; p. 435.
Gearing, Transmission-. H. R. Wise. No. 992,321; May 16; Sp. p. 3209; Gaz. vol. 166; p. 583.
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Gearing, Transmission-. J. Richards and G. Bates. No. 994,199; June 6; Sp. p. 206; Gaz. vol. 167; p. 35.
Gearing, Transmission-. H. A. Rhodes. No. 994,537; June 6; Sp. p. 903; Gaz. vol. 167; p. 150.
Gearing, Transmission-. A. E. Osborn. No. 995,552; June 20; Sp. p. 3169; Gaz. vol. 167; p. 564.
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Gearing, Transmission-. C. M. Hansen. No. 999,027; July 25; Sp. p. 5334; Gaz. vol. 168; p. 949.
Gearing, Transmission-. R. S. Geblert and J. G. Coleridge. No. 999,984; Aug. 8; Sp. p. 1583; Gaz. vol. 169; p. 298.
Gearing, Transmission-. C. S. Heller. No. 1,000,406; Aug. 15; Sp. p. 2544; Gaz. vol. 169; p. 475.
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Gearing, Transmission-. W. L. Miggett. No. 1,010,166; Nov. 28; Sp. p. 5538; Gaz. vol. 172; p. 992.
Gearing, Transmission-. N. G. Robinson. No. 1,010,804; Dec. 5; Sp. p. 898; Gaz. vol. 173; p. 141.
Gearing, Transmission-. H. Cooper. No. 1,011,163; Dec. 12; Sp. 1714; Gaz. vol. 173; p. 301.
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Gearing, Variable. A. Kinnings. No. 1,006,101; Oct. 17; Sp. p. 3348; Gaz. vol. 171; p. 597.
Gearing, Variable-speed. W. S. Kindle. No. 980,794; Jan. 3; Sp. p. 1315; Gaz. vol. 162; p. 211.
Gearing, Variable-speed. J. S. Barnes. No. 998,227; July 18; Sp. p. 3533; Gaz. vol. 168; p. 634.
Gearing, Variable-speed. G. Wagner. No. 1,003,221; Sept. 12; Sp. p. 2279; Gaz. vol. 170; p. 392.
Gearing, Variable-speed. C. C. Spinks. No. 1,006,017; Oct. 17; Sp. p. 3171; Gaz. vol. 171; p. 569.
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Gearing, Yieldable. A. A. Ewald. No. 988,182; Mar. 28; Sp. p. 5156; Gaz. vol. 164; p. 914.
Gearing, Yieldable. R. H. Voegtle. No. 989,312; Apr. 11; Sp. p. 2168; Gaz. vol. 165; p. 369.
Gearing, Yieldable. L. Gaddie. No. 1,005,191; Oct. 10; Sp. p. 1324; Gaz. vol. 171; p. 245.
Gearings, Clutch mechanism for transmission-. C. W. Parker. No. 982,855; Jan. 31; Sp. p. 5887; Gaz. vol. 162; p. 1034.
Gelatinous silica, Manufacture of. A. Poulson. No. 1,012,911; Dec. 26; Sp. p. 5593; Gaz. vol. 173; p. 986.
Gem, Imitation. F. J. Lightbody. No. 1,005,564; Oct. 10; Sp. p. 2180; Gaz. vol. 171; p. 380.
Gem-setting. J. W. Lawson. No. 983,295; Feb. 7; Sp. p. 77; Gaz. vol. 163; p. 15.
Gem-setting. F. A. Fairbrother. No. 1,001,583; Aug. 22; Sp. p. 5073; Gaz. vol. 169; p. 914.
Gem-setting, Swaged. F. A. Fairbrother. No. 1,001,377; Aug. 22; Sp. p. 4694; Gaz. vol. 169; p. 847.
Generating apparatus. S. A. Reeve and E. P. Noyes. No. 982,871; Jan. 31; Sp. p. 5920; Gaz. vol. 162; p. 1040.
Generator: *See* Acetylene-generator; Ammonia-generator; Electric generator; Explosive-generator; Fluid-generator; Gas-generator; Hydrocarbon-generator; Hydrocarbon-system generator; Internal-combustion generator; Magneto-generator; Magneto-electric generator; Oxygen-generator; Ozone-generator; Power-generator; Pressure-generator; Soda steam-generator; Steam-generator; Superheating-generator; Three-wire generator; Train-generator; Wave-power generator.
Generator. C. A. Street. No. 1,012,476; Dec. 19; Sp. p. 4607; Gaz. vol. 173; p. 790.
Generator and gas-burner, Combined. F. C. Watts. No. 997,722; July 11; Sp. p. 2355; Gaz. vol. 168; p. 414.
Generator carbid-holder, Acetylene-gas-. L. R. Iruz. No. 1,003,047; Sept. 12; Sp. p. 1910; Gaz. vol. 170; p. 330.
Generator-driver. H. C. Clay. No. 989,521; Apr. 11; Sp. p. 2602; Gaz. vol. 165; p. 439.
Gilding, Machine for removing waste. R. J. Cooper, Jr., R. M. Sandford, and W. Brady. No. 1,005,694; Oct. 10; Sp. p. 2477; Gaz. vol. 171; p. 425.
Gin. W. E. Cooke. No. 1,008,242; Nov. 7; Sp. p. 1283; Gaz. vol. 172; p. 210.
Gin. S. D. Murray. No. 1,011,832; Dec. 12; Sp. p. 3215; Gaz. vol. 173; p. 536.
Gin-saw cleaner. J. G. Pillow. No. 988,141; Mar. 28; Sp. p. 5081; Gaz. vol. 164; p. 901.
Gin-saw cleaner. H. M. Stroup. No. 1,009,111; Nov. 21; Sp. p. 3305; Gaz. vol. 172; p. 584.
Gin-saw cleaner, Portable. A. B. Black. No. 985,137; Feb. 28; Sp. p. 4022; Gaz. vol. 163; p. 741.
Ginning apparatus. E. R. Bullock. No. 1,005,807; Oct. 17; Sp. p. 2704; Gaz. vol. 171; p. 495.
Ginseng-shade. L. B. Hetrick. No. 1,001,267; Aug. 22; Sp. p. 4438; Gaz. vol. 169; p. 807.
Girder-cutting device. H. John. No. 995,252; June 13; Sp. p. 2491; Gaz. vol. 167; p. 431.
Girder-frame and making the same, Metal. L. Hoage. No. 991,779; May 9; Sp. p. 2028; Gaz. vol. 166; p. 365.
Girdle, Bust-. N. E. Dunlap. No. 985,735; Feb. 28; Sp. p. 5401; Gaz. vol. 163; p. 946.
Glass: *See* Colored glass; Spectacle-glass.
Glass and gasket cutter, Circular. J. B. Shuttleworth. No. 983,173; Jan. 31; Sp. p. 6547; Gaz. vol. 162; p. 1139.
Glass article, Prism-. F. L. O. Wadsworth. No. 982,772; Jan. 24; Sp. p. 5691; Gaz. vol. 162; p. 976.
Glass articles, Apparatus for drawing hollow. M. J. Healy. No. 1,008,465; Nov. 14; Sp. p. 1911; Gaz. vol. 172; p. 327.
Glass articles, Drawing hollow. F. L. O. Wadsworth. No. 985,866; Mar. 7; Sp. p. 224; Gaz. vol. 164; p. 37.
Glass articles, Machine for forming and blowing. J. I. Arbogast. No. 998,735; July 25; Sp. p. 4668; Gaz. vol. 168; p. 846.
Glass articles, Machine for making. G. E. Cleveland. No. 987,671; Mar. 21; Sp. p. 4011; Gaz. vol. 164; p. 714.
Glass articles, Machine for making. H. M. Brookfield. No. 1,011,023; Dec. 5; Sp. p. 1355; Gaz. vol. 173; p. 216.
Glass articles, Machine for producing hollow. J. I. Arbogast. No. 994,710; June 13; Sp. p. 1312; Gaz. vol. 167; p. 249.
Glass articles, Manufacture of. C. C. Stutz. No. 1,007,156; Oct. 31; Sp. p. 5743; Gaz. vol. 171; p. 1052.
Glass articles, Manufacture of. C. C. Stutz. No. 1,007,252; Oct. 31; Sp. p. 5955; Gaz. vol. 171; p. 1087.
Glass-batch gatherer. J. I. Arbogast. No. 1,000,224; Aug. 8; Sp. p. 2143; Gaz. vol. 169; p. 381.
Glass-beveling machine. J. H. Stich. No. 1,012,227; Dec. 19; Sp. p. 4128; Gaz. vol. 173; p. 708.
Glass-blowing apparatus. F. Hornquist. No. 1,007,571; Oct. 31; Sp. p. 6641; Gaz. vol. 171; p. 1197.
Glass-blowing machine. L. Grote. No. 1,004,020; Sept. 26; Sp. p. 4024; Gaz. vol. 170; p. 728.
Glass bodies, Method of and apparatus for manufacturing hollow. J. A. Sweet. No. 1,007,503; Oct. 31; Sp. p. 6488; Gaz. vol. 171; p. 1174.
Glass bottles, jars, and the like, Machine for manufacturing. F. W. Knowles and G. W. Inman. No. 1,003,471; Sept. 19; Sp. p. 2797; Gaz. vol. 170; p. 512.
Glass bottles, Method of and apparatus for manufacturing. F. O'Neill. No. 994,421; June 6; Sp. p. 662; Gaz. vol. 167; p. 113.
Glass case goods, Manufacturing. J. I. Arbogast. No. 1,002,955; Sept. 12; Sp. p. 1736; Gaz. vol. 170; p. 301.
Glass case goods, Manufacturing. J. I. Arbogast. No. 1,002,956; Sept. 12; Sp. p. 1738; Gaz. vol. 170; p. 301.
Glass ceiling construction. O. K. Simonsen and C. Rasmussen. No. 1,006,599; Oct. 24; Sp. p. 4522; Gaz. vol. 171; p. 806.
Glass clamp, Plate-. F. F. McAvoy. No. 997,202; July 4; Sp. p. 1269; Gaz. vol. 168; p. 207.
Glass, Corner-fastener for plate-. J. T. Ferres. No. 984,267; Feb. 14; Sp. p. 2219; Gaz. vol. 163; p. 375.
Glass-cutter. D. E. Springer. No. 992,819; May 23; Sp. p. 4255; Gaz. vol. 166; p. 785.
Glass-cutter. R. Friebertshauser. No. 1,005,637; Oct. 10; Sp. p. 2354; Gaz. vol. 171; p. 404.
Glass-cutter, Guided. E. Mehlem. No. 997,310; July 11; Sp. p. 1510; Gaz. vol. 168; p. 274.
Glass-cutter, Hand-operated. A. W. Hornig. No. 989,603; Apr. 18; Sp. p. 2821; Gaz. vol. 165; p. 499.
Glass-cutting-off machine. N. W. Hartman. No. 1,002,397; Sept. 5; Sp. p. 510; Gaz. vol. 170; p. 71.
Glass cylinders, Apparatus for blowing. H. F. Hitner. No. 987,137; Mar. 21; Sp. p. 2880; Gaz. vol. 164; p. 529.
Glass cylinders, Apparatus for drawing hollow. M. J. Healy. No. 1,008,464; Nov. 14; Sp. p. 1909; Gaz. vol. 172; p. 326.
Glass cylinders, Horse for. R. W. Bridge. No. 1,006,995; Oct. 3; Sp. p. 5365; Gaz. vol. 171; p. 941.
Glass cylinders, Method of and apparatus for splitting. M. K. McMullin. No. 998,254; July 18; Sp. p. 3587; Gaz. vol. 168; p. 644.
Glass, Device for hot-polishing. G. C. De Bay. No. 1,000,378; Aug. 15; Sp. p. 2487; Gaz. vol. 169; p. 465.
Glass dry cleanser. S. Grimson. No. 995,785; June 20; Sp. p. 3706; Gaz. vol. 167; p. 646.
Glass dry cleanser. S. Grimson. No. 997,447; July 11; Sp. p. 1762; Gaz. vol. 168; p. 320.
Glass-fastener. F. E. Kelley. No. 988,110; Mar. 28; Sp. p. 5030; Gaz. vol. 164; p. 892.
Glass fastener, Window-. T. H. Kane. No. 1,000,413; Aug. 15; Sp. p. 2565; Gaz. vol. 169; p. 478.

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Glass fastening, Plate-. S. C. MacDowney. No. 991,731; May 9; Sp. p. 1953; Gaz. vol. 166; p. 350.
Glass-flattening table. G. A. Shields. No. 1,008,676; Nov. 14; Sp. p. 2379; Gaz. vol. 172; p. 401.
Glass flower-blocks, Manufacturing. T. Davidson. No. 985,785; Mar. 7; Sp. p. 36; Gaz. vol. 164; p. 8.
Glass from smelting-furnaces, Device for extracting measured quantities of. H. Severin. No. 984,974; Feb. 21; Sp. p. 3685; Gaz. vol. 163; p. 651.
Glass-furnace. V. L. Martin. No. 995,267; June 13; Sp. p. 2529; Gaz. vol. 167; p. 437.
Glass-furnace. P. J. Paquet. No. 1,000,546; Aug. 15; Sp. p. 2859; Gaz. vol. 169; p. 524.
Glass-furnace. H. L. Dixon. No. 1,002,375; Sept. 5; Sp. p. 459; Gaz. vol. 170; p. 64.
Glass grinding and smoothing apparatus. G. Lardinois. No. 995,019; June 13; Sp. p. 2032; Gaz. vol. 167; p. 355.
Glass-grinding disk. W. B. Mayo. No. 986,480; Mar. 14; Sp. p. 1543; Gaz. vol. 164; p. 276.
Glass-grinding machines, Feeding device for. M. P. A. Laronde. No. 998,353; July 18; Sp. p. 3836; Gaz. vol. 168; p. 681.
Glass, Handling. H. L. Dixon. No. 1,002,234; Sept. 5; Sp. p. 96; Gaz. vol. 170; p. 11.
Glass-holder. P. M. Welsh. No. 985,085; Feb. 21; Sp. p. 3899; Gaz. vol. 163; p. 689.
Glass, Imitating onyx or marble on. F. L. Hill. No. 993,993; May 30; Sp. p. 6773; Gaz. vol. 166; p. 1217.
Glass in molds, Packing. F. W. Pawling. No. 998,921; July 25; Sp. p. 5085; Gaz. vol. 168; p. 912.
Glass, Manufacture and production of silica. H. A. Kent. No. 1,003,271; Sept. 12; Sp. p. 2392; Gaz. vol. 170; p. 411.
Glass, Manufacture of. E. C. Sullivan. No. 990,607; Apr. 25; Sp. p. 5031; Gaz. vol. 165; p. 876.
Glass, Manufacture of. S. O. Richardson, Jr. No. 1,004,080; Sept. 26; Sp. p. 4202; Gaz. vol. 170; p. 750.
Glass, Material for use in the manufacture of. E. C. Sullivan. No. 990,606; Apr. 25; Sp. p. 5029; Gaz. vol. 165; p. 876.
Glass-melting means. W. W. W. Keyes. No. 1,000,921; Aug. 15; Sp. p. 3665; Gaz. vol. 169; p. 658.
Glass, Method and apparatus for drawing sheet-. J. Player. No. 991,642; May 9; Sp. p. 1751; Gaz. vol. 166; p. 321.
Glass, Method and apparatus for marvering. A. Kadow. No. 991,623; May 9; Sp. p. 1713; Gaz. vol. 166; p. 315.
Glass-mold. J. J. Muldoon. No. 985,439; Feb. 28; Sp. p. 4741; Gaz. vol. 163; p. 843.
Glass-molding apparatus. J. J. Wanko. No. 994,806; June 13; Sp. p. 1547; Gaz. vol. 167; p. 283.
Glass out of paper, Manufacture of imitation stained. F. Hüserich. No. 1,002,993; Sept. 12; Sp. p. 1806; Gaz. vol. 170; p. 313.
Glass-panel fastener. P. A. Regnier. No. 1,011,848; Dec. 12; Sp. p. 3260; Gaz. vol. 173; p. 541.
Glass panes, Metal frame for. A. Busse. No. 1,001,502; Aug. 22; Sp. p. 4909; Gaz. vol. 169; p. 887.
Glass paving-block for the construction of luminous floors of reinforced concrete. H. L. J. Crochet. No. 1,005,611; Oct. 10; Sp. p. 2299; Gaz. vol. 171; p. 396.
Glass plates for store-fronts, Device for securing together. M. S. Crane. No. 994,721; June 13; Sp. p. 1360; Gaz. vol. 167; p. 254.
Glass pot and kiln. R. L. Frink. No. 988,454; Apr. 4; Sp. p. 350; Gaz. vol. 165; p. 57.
Glass-pot stopper. C. L. Betz. No. 987,212; Mar. 21; Sp. p. 3075; Gaz. vol. 164; p. 557.
Glass-pots, Charging. H. K. Hitchcock. No. 990,555; Apr. 25; Sp. p. 4920; Gaz. vol. 165; p. 858.
Glass-rolling machine, Sheet-. W. Dulles. No. 1,003,093; Sept. 12; Sp. p. 2013; Gaz. vol. 170; p. 346.
Glass setting, Plate-. W. R. Grissel and H. S. Josselyn. No. 981,189; Jan. 10; Sp. p. 2306; Gaz. vol. 162; p. 381.
Glass, Severing. J. I. Arbogast. No. 1,002,954; Sept. 12; Sp. p. 1734; Gaz. vol. 170; p. 301.
Glass-shearing device. W. J. Miller. No. 992,230; May 16; Sp. p. 2990; Gaz. vol. 166; p. 550.
Glass-sheet bending and shaping mold. D. J. B. Robier. No. 991,025; May 2; Sp. p. 410; Gaz. vol. 166; p. 70.
Glass structure, Plate-. O. C. Kade. No. 984,006; Feb. 14; Sp. p. 1648; Gaz. vol. 163; p. 285.
Glass-teeming apparatus. J. W. Cruikshank. No. 985,783; Mar. 7; Sp. p. 29; Gaz. vol. 164; p. 8.
Glass-tempering device. M. W. Davison, G. Kester, and J. M. Rowan. No. 1,000,671; Aug. 15; Sp. p. 3149; Gaz. vol. 169; p. 570.
Glass-tube cutter. G. H. Wilkins. No. 996,385; June 27; Sp. p. 5040; Gaz. vol. 167; p. 887.
Glass tubes, Machine for shaping the ends of. R. Koenig. No. 982,212; Jan. 17; Sp. p. 4496; Gaz. vol. 162; p. 754.
Glass vacuum-wall bottles, Manufacturing. O. J. W. Higbee. (Reissue.) No. 13,332; Dec. 5; Sp. p. 1633; Gaz. vol. 173; p. 259.
Glass-work, Ornamental. C. H. Kloster and F. G. Blatter. No. 999,112; July 25; Sp. p. 5490; Gaz. vol. 168; p. 977.
Glass-working machine. A. Godfrey. No. 987,714; Mar. 28; Sp. p. 4135; Gaz. vol. 164; p. 757.
Glasses, Shooting-. C. E. Cook. (Reissue.) No. 13,231; May 2; Sp. p. 1365; Gaz. vol. 166; p. 227.
Glassware, Apparatus for forming hollow. H. A. Richards and T. J. Conway. No. 996,365; June 27; Sp. p. 4994; Gaz. vol. 167; p. 880.
Glassware, Apparatus for forming shapes of. W. Buttler. No. 996,398; June 27; Sp. p. 5065; Gaz. vol. 167; p. 892.
Glassware, Burner for fire-polishing. A. J. Sanford. No. 993,554; May 30; Sp. p. 5851; Gaz. vol. 166; p. 1067.
Glassware, Fire-polishing. A. J. Sanford. No. 993,555; May 30; Sp. p. 5852; Gaz. vol. 166; p. 1067.
Glassware, Manufacturing. E. A. Gillinder. No. 986,380; Mar. 7; Sp. p. 1314; Gaz. vol. 164; p. 212.
Glassware-manufacturing machine. F. O'Neill. No. 994,422; June 6; Sp. p. 667; Gaz. vol, 167; p. 114.
Glazed frame for hotbeds, &c. C. A. Hagemann. No. 995,594; June 20; Sp. p. 3288; Gaz. vol. 167; p. 579.
Glazier's tool. L. Zimmerman. No. 997,172; July 4; Sp. p. 1216; Gaz. vol. 168; p. 197.
Glazing roofs and the like without putty, Means for. H. Knobel. No. 992,003; May 9; Sp. p. 2485; Gaz. vol. 166; p. 442.
Glazing-tool. J. H. Hall. No. 1,000,333; Aug. 8; Sp. p. 2352; Gaz. vol. 169; p. 416.
Globe and globe-holder. R. E. Larzelere. No. 1,008,344; Nov. 14; Sp. p. 1553; Gaz. vol. 172; p. 284.
Globe-holder. W. J. Sloan. No. 1,010,081; Nov. 28; Sp. p. 5379; Gaz. vol. 172; p. 964.
Globe-holder. J. E. Martin. (Reissue.) No. 13,324; Nov. 28; Sp. p. 6049; Gaz. vol. 172; p. 1072.
Globe-lifter. C. T. Whipple and H. A. Moody. No. 999,687; Aug. 1; Sp. p. 964; Gaz. vol. 169; p. 169.
Globe-support. A. G. McArdle. No. 982,622; Jan. 24; Sp. p. 5370; Gaz. vol. 162; p. 926.
Globes and shades of artificial lights, Holder for. F. W. Gore. No. 996,710; July 4; Sp. p. 229; Gaz. vol. 168; p. 40.
Glove. T. E. Scully. No. 983,649; Feb. 7; Sp. p. 848; Gaz. vol. 163; p. 135.
Glove. C. J. Shimer and O. Peterson. No. 996,287; June 27; Sp. p. 4808; Gaz. vol. 167; p. 852.
Glove. C. H. Leavengood. No. 1,005,437; Oct. 10; Sp. p. 1895; Gaz. vol. 171; p. 335.
Glove. A. Stedman. No. 1,010,199; Nov. 28; Sp. p. 5603; Gaz. vol. 172; p. 1003.
Glove and mitten. L. L. Tabor. No. 1,004,711; Oct. 3; Sp. p. 364; Gaz. vol. 171; p. 59.
Glove and mitten. L. L. Tabor. No. 1,006,510; Oct. 24; Sp. p. 4308; Gaz. vol. 171; p. 772.
Glove attachment. G. A. Moss. No. 986,491; Mar. 14; Sp. p. 1566; Gaz. vol. 164; p. 279.
Glove, Base-ball. B. T. Rogers. No. 980,679; Jan. 3; Sp. p. 1095; Gaz. vol. 162; p. 174.
Glove, Base-ball. W. P. Whitley. No. 1,000,567; Aug. 15; Sp. p. 2907; Gaz. vol. 169; p. 533.
Glove, Base-ball. S. Cline. No. 1,003,031; Sept. 12; Sp. p. 1883; Gaz. vol. 170; p. 325.
Glove, Base-ball. J. Gamble. No. 1,005,824; Oct. 17; Sp. p. 2747; Gaz. vol. 171; p. 501.
Glove, Base-ball-fielder's. F. J. Ratsch. No. 980,560; Jan. 3; Sp. p. 834; Gaz. vol. 162; p. 134.
Glove, Electric-heated. A. L. Carron. No. 1,011,574; Dec. 12; Sp. p. 2666; Gaz. vol. 173; p. 448.
Glove-finger tip and seam protecting device. R. N. Carson. No. 1,005,511; Oct. 10; Sp. p. 2048; Gaz. vol. 171; p. 360.
Glove-nail. W. C. Loy. No. 1,010,283; Nov. 28; Sp. p. 5787; Gaz. vol. 172; p. 1031.
Glove rack or holder. J. F. Madden and J. L. Crouse. No. 982,216; Jan. 17; Sp. p. 4508; Gaz. vol. 162; p. 756.
Glove, Rubber swimming-. J. W. Copeland and E. Hamilton. No. 1,008,117; Nov. 7; Sp. p. 1011; Gaz. vol. 172; p. 164.
Glove-seam-protecting device. R. N. Carson. No. 1,005,512; Oct. 10; Sp. p. 2049; Gaz. vol. 171; p. 360.
Glove-turning machine. G. N. Abbott. No. 993,937; May 30; Sp. p. 6649; Gaz. vol. 166; p. 1197.
Gloves, Cleaning kid or leather. R. Lungstras. No. 986,072; Mar. 7; Sp. p. 677; Gaz. vol. 164; p. 108.
Gloves, Cutting-machine for use in the manufacture of sewed. E. Pässler. No. 997,696; July 11; Sp. p. 2285; Gaz. vol. 168; p. 405.
Glue-boiler. C. E. Francis. No. 986,560; Mar. 14; Sp. p. 1714; Gaz. vol. 164; p. 303.
Glue-heater. C. M. Zimmerman. No. 989,101; Apr. 11; Sp. p. 1701; Gaz. vol. 165; p. 296.
Glue-heaters, Thermostatic temperature-regulator for. H. Angebrandt, Jr. No. 1,007,172; Oct. 31; Sp. p. 5785; Gaz. vol. 171; p. 1058.
Glue-manufacturing apparatus. L. Thiele. No. 989,826; Apr. 18; Sp. p. 3299; Gaz. vol. 165; p. 576.
Glue-melting. C. M. Zimmerman. No. 1,009,616; Nov. 21; Sp. p. 4413; Gaz. vol. 172; p. 760.
Glue-spreader. N. C. Phillips. No. 1,007,971; Nov. 7; Sp. p. 721; Gaz. vol. 172; p. 113.
Glue-spreader. P. J. Smith. No. 1,009,593; Nov. 21; Sp. p. 4373; Gaz. vol. 172; p. 753.
Glue-spreading machine. R. N. B. Campbell. No. 982,348; Jan. 24; Sp. p. 4806; Gaz. vol. 162; p. 832.
Gluing apparatus. L. A. Cowles. No. 1,010,594; Dec. 5; Sp. p. 428; Gaz. vol. 173; p. 68.

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Glycerin, Monocinnamic ester of. J. Callsen. No. 999,955; Aug. 8; Sp. p. 1532; Gaz. vol. 169; p. 289.
Glycerin, Treating. S. H. Fleming. (Reissue.) No. 13,234; May 9; Sp. p. 2755; Gaz. vol. 166; p. 488.
Go-cart. A. J. Adams. No. 1,009,372; Nov. 21; Sp. p. 3917; Gaz. vol. 172; p. 678.
Goggles. G. B. Collier. No. 999,630; Aug. 1; Sp. p. 850; Gaz. vol. 169; p. 148.
Goggles, Refracting telescopic. I. O. Denman. No. 988,081; Mar. 28; Sp. p. 4980; Gaz. vol. 164; p. 883.
Gold-leaf, Composition for making. L. Kurz. No. 982,370; Jan. 24; Sp. p. 4857; Gaz. vol. 162; p. 841.
Gold-machine, Dry-process. D. M. Owings and W. M. Osborn. No. 1,006,267; Oct. 17; Sp. p. 3748; Gaz. vol. 171; p. 659.
Gold, Recovering fine. J. H. Alling. (Reissue.) No. 13,307; Nov. 7; Sp. p. 1412; Gaz. vol. 172; p. 229.
Gold, Riffle for amalgamation of. J. O. Kinney. No. 1,006,953; Oct. 24; Sp. p. 5275; Gaz. vol. 171; p. 928.
Gold-saving apparatus. T. Gilbert. No. 1,006,649; Oct. 24; Sp. p. 4614; Gaz. vol. 171; p. 823.
Gold, Treating ores containing tellurids of. T. B. Crowe. No. 987,964; Mar. 28; Sp. p. 4726; Gaz. vol. 164; p. 844.
Golf-club. A. W. Biddle. No. 1,000,982; Aug. 22; Sp. p. 3821; Gaz. vol. 169; p. 712.
Golf-players, Training device for. W. J. English. No. 1,005,948; Oct. 17; Sp. p. 3035; Gaz. vol. 171; p. 547.
Golf-stick. J. M. McLaren. No. 985,194; Feb. 28; Sp. p. 4186; Gaz. vol. 163; p. 762.
Goods-holder. J. N. Macom and L. B. Walker. No. 996,780; July 4; Sp. p. 358; Gaz. vol. 168; p. 61.
Goods holding, measuring, and computing apparatus. C. E. Hedge. No. 997,499; July 11; Sp. p. 1861; Gaz. vol. 168; p. 336.
Goods receiver, Delivery-. C. Keck No. 983,498; Feb. 7; Sp. p. 516; Gaz. vol. 163; p. 83.
Gopher-trap. J. W. Rigney. No. 989,423; Apr. 11; Sp. p. 2397; Gaz. vol. 165; p. 405.
Governing mechanism. H. H. Dole. No. 980,616; Jan. 3; Sp. p. 943; Gaz. vol. 162; p. 153.
Governing mechanism, Emergency. F. R. C. Boyd. No. 980,483; Jan. 3; Sp. p. 660; Gaz. vol. 162; p. 108.
Governor. C. E. Wright. No. 981,964; Jan. 17; Sp. p. 4023; Gaz. vol. 162; p. 671.
Governor. E. L. Nance. No. 986,022; Mar. 7; Sp. p. 578; Gaz. vol. 164; p. 92.
Governor. N. A. Christensen. No. 996,212; June 27; Sp. p. 4640; Gaz. vol. 167; p. 828.
Governor. K. Dougan. No. 997,279; July 11; Sp. p. 1436; Gaz. vol. 168; p. 264.
Governor. H. V. Hunt. No. 1,000,005; Aug. 8; Sp. p. 1631; Gaz. vol. 169; p. 306.
Governor. A. L. Wyman. No. 1,000,477; Aug. 15; Sp. p. 2697; Gaz. vol. 169; p. 500.
Governor. L. R. O'Neill. No. 1,005,570; Oct. 10; Sp. p. 2208; Gaz. vol. 171; p. 381.
Governor. R. H. Rice and J. G. Callan. No. 1,013,062; Dec. 26; Sp. p. 5933; Gaz. vol. 173; p. 1038.
Governor and reversing-gear, Automatic. C. J. Pilliod. No. 982,988; Jan. 31; Sp. p. 6167; Gaz. vol. 162; p. 1077.
Governor, Automatic cut-off. A. Guenther. No. 1,008,642; Nov. 14; Sp. p. 2311; Gaz. vol. 172; p. 391.
Governor, Engine-. J. McGowan. No. 983,159; Jan. 31; Sp. p. 6522; Gaz. vol. 162; p. 1134.
Governor, Engine-. J. W. Sargent. No. 986,762; Mar. 14; Sp. p. 2137; Gaz. vol. 164; p. 372.
Governor, Engine-. R. H. Pascall. No. 1,003,198; Sept. 12; Sp. p. 2231; Gaz. vol. 170; p. 383.
Governor, Engine-. B. M. Aslakson. No. 1,007,661; Nov. 7; Sp. p. 3; Gaz. vol. 172; p. 3.
Governor, Engine-. J. C. Stier. No. 1,012,025; Dec. 19; Sp. p. 3673; Gaz. vol. 173; p. 639.
Governor, Explosive-engine. B. O. Smith. No. 994,206; June 6; Sp. p. 219; Gaz. vol. 167; p. 38.
Governor, Explosive-engine. E. E. Arnold. No. 995,651; June 20; Sp. p. 3404; Gaz. vol. 167; p. 599.
Governor for gas-engines, &c. F. C. Olin. No. 984,439; Feb. 14; Sp. p. 2547; Gaz. vol. 163; p. 431.
Governor for marine steam-engines. T. W. Fancy. No. 996,752; July 4; Sp. p. 301; Gaz. vol. 168; p. 53.
Governor for regulating the revolution of a shaft. A. N. Hoslet and A. Libert. No. 1,004,430; Sept. 26; Sp. p. 4937; Gaz. vol. 170; p. 869.
Governor for regulating the revolutions of a shaft. A. N. Hoslet and A. Libert. No. 1,004,431; Sept. 26; Sp. p. 4939; Gaz. vol. 170; p. 869.
Governor for rotating sieves and the like. R. R. Watters. No. 1,002,476; Sept. 5; Sp. p. 672; Gaz. vol. 170; p. 97.
Governor, Gas-engine. P. Okey. No. 989,030; Apr. 11; Sp. p. 1552; Gaz. vol. 165; p. 271.
Governor, Gas-engine. J. W. Bentler No. 1,001,607; Aug. 29; Sp. p. 5139; Gaz. vol. 169; p. 953.
Governor, Impact-engine. H. E. Procunier. No. 994,535; June 6; Sp. p. 898; Gaz. vol. 167; p. 149.
Governor, Pneumatic. T. Danquard. No. 983,879; Feb. 14; Sp. p. 1359; Gaz. vol. 163; p. 244.
Governor safety appliance, Engine-. H. R. Rockwell. No. 981,118; Jan. 10; Sp. p. 2156; Gaz. vol. 162; p. 355.
Governor, Speed-regulating. W. H. Mursch. No. 1,001,065; Aug. 22; Sp. p. 4041; Gaz. vol. 169; p. 743.
Governor, Steam-engine. W. T. Davis. No. 1,012,611; Dec. 26; Sp. p. 4908; Gaz. vol. 173; p. 883.
Governor tension-adjusting mechanism. C. Grant. No. 1,013,088; Dec. 26; Sp. p. 5989; Gaz. vol. 173; p. 1048.
Gowns, Foundation-lining for maternity-. T. Cooper and J. H. Brigance. No. 1,000,718; Aug. 15; Sp. p. 3243; Gaz. vol. 169; p. 586.
Grab, Automatic. C. Laudi. No. 1,008,345; Nov. 14; Sp. p. 1554; Gaz. vol. 172; p. 284.
Grab-hook. A. Benedict. No. 1,007,637; Oct. 31; Sp. p. 6784; Gaz. vol. 171; p. 1220.
Grab-hook, Safety. W. Breivogel. No. 981,838; Jan. 17; Sp. p. 3708; Gaz. vol. 162; p. 627.
Grader. L. N. Morscher. No. 990,157; Apr. 18; Sp. p. 3976; Gaz. vol. 165; p. 686.
Grader. C. H. Hersey. No. 1,011,196; Dec. 12; Sp. p. 1788; Gaz. vol. 173; p. 312.
Grader, Road-. J. T. Starr. No. 981,710; Jan. 17; Sp. p. 3427; Gaz. vol. 162; p. 580.
Grader, Road-. D. P. Henninger. No. 982,427; Jan. 24; Sp. p. 4972; Gaz. vol. 162; p. 859.
Grader, Road-. J. B. Fender. No. 982,944; Jan. 31; Sp. p. 6086; Gaz. vol. 162; p. 1063.
Grader, Road-. A. K. Skow. No. 986,421; Mar. 7; Sp. p. 1394; Gaz. vol. 164; p. 225.
Grader, Road-. J. S. Lord. No. 990,488; Apr. 25; Sp. p. 4780; Gaz. vol. 165; p. 836.
Grader, Road-. C. E. Whitehead. No. 999,934; Aug. 8; Sp. p. 1483; Gaz. vol. 169; p. 281.
Grader, Road-. F. A. Mattson. No. 1,006,576; Oct. 24; Sp. p. 4470; Gaz. vol. 171; p. 798.
Grading-machine. T. R. McKnight. No. 981,781; Jan. 17; Sp. p. 3569; Gaz. vol. 162; p. 606.
Grading-machine. C. P. Ackerman. No. 988,684; Apr. 4; Sp. p. 842; Gaz. vol. 165; p. 136.
Grading-machine. C. B. Dunn. No. 998,680; July 25; Sp. p. 4528; Gaz. vol 168; p. 826.
Grading-machine. W. Sykes. No. 1,006,146; Oct. 17; Sp. p. 3467; Gaz. vol. 171; p. 615.
Grading-machine. C. K. Stockland. No. 1,012,109; Dec. 19; Sp. p. 3861; Gaz. vol. 173; p. 668.
Grading machine, Road-. W. H. Dawkins and T. G. Dorough. No. 980,612; Jan. 3; Sp. p. 937; Gaz. vol. 162; p. 152.
Grading or sorting machine. G. Thomas. No. 981,955; Jan. 17; Sp. p. 4005; Gaz. vol. 162; p. 668.
Grain and hay loading and transporting machine. P. J. Mulloy. No. 1,002,737; Sept. 5; Sp. p. 1249; Gaz. vol. 170; p. 186.
Grain and seed separator and cleaner. O. W. Hall. No. 982,207; Jan. 17; Sp. p. 4482; Gaz. vol. 162; p. 752.
Grain-bagger. C. L. Gardner. No. 1,011,047; Dec. 5; Sp. p. 1410; Gaz. vol. 173; p. 224.
Grain-bagger. C. L. Gardner. No. 1,011,048; Dec. 5; Sp. p. 1413; Gaz. vol. 173; p. 225.
Grain-bin. W. H. Larch. No. 1,005,983; Oct. 17; Sp. p. 3106; Gaz. vol. 171; p. 558.
Grain-binder. J. Dangel. No. 991,834; May 9; Sp. p. 2159; Gaz. vol. 166; p. 384.
Grain-binder. B. R. Benjamin. No. 994,711; June 13; Sp. p. 1316; Gaz. vol. 167; p. 250.
Grain-binder bundle-transfer. L. Anderson. No. 989,941; Apr. 18; Sp. p. 3546; Gaz. vol. 165; p. 615.
Grain-binder cord-knotter. J. Boda. No. 995,585; June 20; Sp. p. 3257; Gaz. vol. 167; p. 576.
Grain-binder cord-knotter. J. Boda. No. 1,006,177; Oct. 17; Sp. p. 3545; Gaz. vol. 171; p. 627.
Grain-binder shock-former. L. Anderson. No. 989,940; Apr. 18; Sp. p. 3540; Gaz. vol. 165; p. 615.
Grain-binders for stooking sheaves of grain, Attachment to. A. T. Giles. No. 991,294; May 2; Sp. p. 1001; Gaz. vol. 166; p. 169.
Grain-cleaner. J. Beall. No. 984,740; Feb. 21; Sp. p. 3234; Gaz. vol. 163; p. 572.
Grain-cleaner support. H. J. Michaelsen. No. 995,167; June 13; Sp. p. 2340; Gaz. vol. 167; p. 405.
Grain cleaning and damping apparatus. A. Beck and E. Angermüller. No. 987,943; Mar. 28; Sp. p. 4669; Gaz. vol. 164; p. 836.
Grain cleaning and separating machine, Seed-. S. D. Felsing. No. 995,853; June 20; Sp. p. 3855; Gaz. vol. 167; p. 670.
Grain-cleaning machine. O. J. Erickson. No. 994,580; June 6; Sp. p. 995; Gaz. vol. 167; p. 165.
Grain-distributer. C. E. Hoff. No. 993,167; May 23; Sp. p. 5015; Gaz. vol. 166; p. 905.
Grain-divider. C. A. A. Rand. No. 991,243; May 2; Sp. p. 889; Gaz. vol. 166; p. 150.
Grain-drier. W. J. Applegate. No. 983,198; Jan. 31; Sp. p. 6593; Gaz. vol. 162; p. 1147.
Grain-drier. H. R. Brinser. No. 996,700; July 4; Sp. p. 209; Gaz. vol. 168; p. 36.
Grain drier and scourer. P. Provost. No. 1,000,120; Aug. 8; Sp. p. 1919; Gaz. vol. 169; p. 346.
Grain, Drying. W. E. Ellis. No. 1,001,259; Aug. 22; Sp. p. 4424; Gaz. vol. 169; p. 804.
Grain-drying apparatus. G. Staunton. No. 987,837; Mar. 28; Sp. p. 4392; Gaz. vol. 164; p. 799.
Grain-drying apparatus. G. Staunton. No. 988,671; Apr. 4; Sp. p. 816; Gaz. vol. 165; p. 132.

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Grain-drill. L. E. Roby. No. 997,703; July 11; Sp. p. 2303; Gaz. vol. 168; p. 408.
Grain-drills, Disk furrow-opener for. W. A. Van Brunt. No. 1,009,869; Nov. 28; Sp. p. 4936; Gaz. vol. 172; p. 892.
Grain-drills, Double disk-bearing for the furrow-openers of. C. W. Robinson. No. 1,008,068; Nov. 7; Sp. p. 909; Gaz. vol. 172; p. 146.
Grain-drills, Telescopic spout for. O. G. Rieske. No. 1,012,278; Dec. 19; Sp. p. 4231; Gaz. vol. 173; p. 726.
Grain-elevator. C. C. Strange and J. M. Hoben. No. 980,699; Jan. 3; Sp. p. 1127; Gaz. vol. 162; p. 180.
Grain-elevator. T. C. Lorenzen. No. 1,005,049; Oct. 3; Sp. p. 1043; Gaz. vol. 171; p. 174.
Grain-elevator, Portable. J. F. Vallentyne. No. 1,002,014; Aug. 29; Sp. p. 6028; Gaz. vol. 169; p. 1091.
Grain mill, Flaked-. S. L. Moser. No. 985,622; Feb. 28; Sp. p. 5138; Gaz. vol. 163; p. 908.
Grain or like drier. W. H. Slaybaugh. No. 997,016; July 4; Sp. p. 907; Gaz. vol. 168; p. 144.
Grain-polisher. A. B. Couch. No. 989,542; Apr. 11; Sp. p. 2663; Gaz. vol. 165; p. 447.
Grain-purifier. C. W. Franklin. No. 988,765; Apr. 4; Sp. p. 1027; Gaz. vol. 165; p. 163.
Grain renovator and drier. L. J. Johnson. No. 985,416; Feb. 28; Sp. p. 4678; Gaz. vol. 163; p. 835.
Grain-saver. C. O. Graham. No. 1,011,772; Dec. 12; Sp. p. 3077; Gaz. vol. 173; p. 515.
Grain-scouring apparatus. A. Beck and E. Angermüller. No. 984,504; Feb. 14; Sp. p. 2694; Gaz. vol. 163; p. 452.
Grain-separator. C. B. Parks and B. E. Sturdevant. No. 984,487; Feb. 14; Sp. p. 2644; Gaz. vol. 163; p. 446.
Grain-separator. E. G. Clymans and A. M. Hess. No. 990,804; Apr. 25; Sp. p. 5474; Gaz. vol. 165; p. 943.
Grain-separator. E. P. Bergman. No. 993,141; May 23; Sp. p. 4960; Gaz. vol. 166; p. 898.
Grain-separator. S. M. Schindel. No. 994,659; June 6; Sp. p. 1178; Gaz. vol. 167; p. 192.
Grain-separator. G. Spenst. No. 996,155; June 27; Sp. p. 4470; Gaz. vol. 167; p. 808.
Grain-separator. R. J. Owens. No. 1,005,778; Oct. 10; Sp. p. 2635; Gaz. vol. 171; p. 454.
Grain-separator. C. G. Branch. No. 1,007,522; Oct. 31; Sp. p. 6531; Gaz. vol. 171; p. 1181.
Grain-separator. A. S. Reed. No. 1,009,440; Nov. 21; Sp. p. 4077; Gaz. vol. 172; p. 703.
Grain separator and cleaner. G. T. Pearce. No. 985,696; Feb. 28; Sp. p. 5306; Gaz. vol. 163; p. 933.
Grain separator and cleaner. A. Wilford. No. 998,439; July 18; Sp. p. 4004; Gaz. vol. 168; p. 710.
Grain-shocker. M. Stenslet. No. 982,642; Jan. 24; Sp. p. 5407; Gaz. vol. 162; p. 933.
Grain-shocker. J. Yanzick, Jr., and F. McDermott. No. 984,411; Feb 14; Sp. p. 2490; Gaz. vol. 163; p. 422.
Grain-shocker. H. M. Friesen and H. H. Nikkel. No. 984,897; Feb. 21; Sp. p. 3540; Gaz. vol. 163; p. 626.
Grain-shocker. M. G. Slawson. No. 985,750; Feb. 28; Sp. p. 5427; Gaz. vol. 163; p. 952.
Grain-shocker. H. G. Kidder. No. 996,930; July 4; Sp. p. 684; Gaz. vol. 168; p. 113.
Grain-shocker. E. Olson. No. 997,083; July 4; Sp. p. 1034; Gaz. vol. 168; p. 166.
Grain-shocker. J. Fritz. No. 1,008,596; Nov. 14; Sp. p. 2197; Gaz. vol. 172; p. 375.
Grain-shocking device. G. H. Tracy. No. 994,799; June 13; Sp. p. 1527; Gaz. vol. 167; p. 281.
Grain-shocking machine. C., Jr., H., and A. Kenne, T. Carmody, and T. A. Swanson. No. 985,529; Feb. 28; Sp. p. 4949; Gaz. vol. 163; p. 876.
Grain-shocking machine. J. Homan. No. 996,857; July 4; Sp. p. 534; Gaz. vol. 168; p. 88.
Grain-sprouter. R. Hohnbach. No. 989,011; Apr. 11; Sp. p. 1513; Gaz. vol. 165; p. 266.
Grain steeper, Seed-. F. Anton. No. 998,942; July 25; Sp. p. 5152; Gaz. vol. 168; p. 920.
Grain-tank. W. Johnston. No. 996,254; June 27; Sp. p. 4727; Gaz. vol. 167; p. 841.
Grain tempering and polishing device. C. P. Fox. No. 998,335; July 18; Sp. p. 3799; Gaz. vol. 168; p. 675.
Grain-treating apparatus. R. E. L. Grubbs. No. 997,992; July 18; Sp. p. 3012; Gaz. vol. 168; p. 550.
Grains and legumes, Completely opening or disintegrating. F. Braunbeck. No. 1,011,730; Dec. 12; Sp. p. 3002; Gaz. vol. 173; p. 500.
Graining-tool. J. B. Lamb. No. 983,627; Feb. 7; Sp. p. 797; Gaz. vol. 163; p. 127.
Graining-tool. F. M. Clapp. No. 998,750; July 25; Sp. p. 4706; Gaz. vol. 168; p. 852.
Graining-tool. J. D. Coughlin. No. 998,958; July 25; Sp. p. 5183; Gaz. vol. 168; p. 926.
Gramophone-record and holder for the same. J. R. Craig, Jr. No. 992,169; May 16; Sp. p. 2846; Gaz. vol. 166; p. 530.
Gramophone-stop. J. A. Johnson. No. 982,138; Jan. 17; Sp. p. 4360; Gaz. vol. 162; p. 729.
Gramophone-stop. R. E. Williams. No. 1,001,493; Aug. 22; Sp. p. 4896; Gaz. vol. 169; p. 884.
Granite, marble, stone, and analogous substances, Apparatus for sawing and working. J. Peckover. No. 995,172; June 13; Sp. p. 2349; Gaz. vol. 167; p. 406.
Grape and orange clipper. G. F. Morse. No. 1,010,784; Dec. 5; Sp. p. 862; Gaz. vol. 173; p. 135.
Grape-pomace heater. P. Deats. No. 991,487; May 9; Sp. p. 1410; Gaz. vol. 166; p. 265.
Grape-tie. A. S. Tennant and G. Prendergast. No. 997,022; July 4; Sp. p. 921; Gaz. vol. 168; p. 146.
Graphitizing. C. F. J. Forssell. No. 983,887; Feb. 14; Sp. p. 1374; Gaz. vol. 163; p. 247.
Graphitizing. C. F. J. Forssell. No. 983,888; Feb. 14; Sp. p. 1377; Gaz. vol. 163; p. 247.
Graphophone attachment. J. A. Soler. No. 1,001,780; Aug. 29; Sp. p. 5512; Gaz. vol. 169; p. 1012.
Graphophone-needles, Tool for. F. Rechenberg. No. 991,020; May 2; Sp. p. 403; Gaz. vol. 166; p. 69.
Graphophone, Positively-fed disk. T. H. Macdonald. No. 1,008,605; Nov. 14; Sp. p. 2216; Gaz. vol. 172; p. 378.
Graphophone-record holder. C. W. Almon. No. 993,333; May 23; Sp. p. 5346; Gaz. vol. 166; p. 958.
Graphophones, Electric brake for. J. F. Means. No. 981,935; Jan. 17; Sp. p. 3959; Gaz. vol. 162; p. 661.
Graphophones, Electric brake for. J. F. Means. No. 1,004,059; Sept. 26; Sp. p. 4130; Gaz. vol. 170; p. 742.
Grapple. H. F. Kohler. No. 987,242; Mar. 21; Sp. p. 3135; Gaz. vol. 164; p. 567.
Grapple. R. Pedersen. No. 992,800; May 23; Sp. p. 4210; Gaz. vol. 166; p. 777.
Grapple. L. J. F. Stuart. No. 993,905; May 30; Sp. p. 6585; Gaz. vol. 166; p. 1186.
Grapple. J. B. Gaussiran. No. 1,003,352; Sept. 12; Sp. p. 2555; Gaz. vol. 170; p. 440.
Grappie. L. M. Lenderman. No. 1,008,724; Nov. 14; Sp. p. 2486; Gaz. vol. 172; p. 418.
Grappling-tool, Electromagnetic. C. G. Miller. No. 999,833; Aug. 8; Sp. p. 1258; Gaz. vol. 169; p. 246.
Grass and potato digger, Quack-. T. W. Liddell. No. 1,000,826; Aug. 15; Sp. p. 3464; Gaz. vol. 169; p. 624.
Grass-catcher. J. A. Eberle. No. 991,773; May 9; Sp. p. 2018; Gaz. vol. 166; p. 363.
Grass-catcher. J. A. Eberle. No. 995,231; June 13; Sp. p. 2456; Gaz. vol. 167; p. 425.
Grass-catcher. A. E. Meyer. No. 996,108; June 27; Sp. p. 4376; Gaz. vol. 167; p. 792.
Grass-catcher. J. A. Eberle. No. 1,002,660; Sept. 5; Sp. p. 1059; Gaz. vol. 170; p. 158.
Grass-catcher. A. E. Meyer. No. 1,002,728; Sept. 5; Sp. p. 1232; Gaz. vol. 170; p. 183.
Grass-destroying machine, Quack-. N. W. Nelson and A. J. Thorvig. No. 983,304; Feb. 7; Sp. p. 100; Gaz. vol. 163; p. 18.
Grass-destroying machine, Quack-. J. S. Johnson. No. 1,002,276; Sept. 5; Sp. p. 199; Gaz. vol. 170; p. 26.
Grass or stubble burner. W. Stinson. No. 985,379; Feb. 28; Sp. p. 4586; Gaz. vol. 163; p. 822.
Grass-trimmer. J. B. Sinderson. No. 986,598; Mar. 14; Sp. p. 1790; Gaz. vol. 164; p. 317.
Grasses for packing-pads and upholstery purposes, Mechanism for curing and preparing. C. A. Anderson. No. 1,005,764; Oct. 10; Sp. p. 2607; Gaz. vol. 171; p. 449.
Grate. J. Walp. No. 980,370; Jan. 3; Sp. p. 383; Gaz. vol. 162; p. 68.
Grate. R. Hilprecht. No. 983,716; Feb. 7; Sp. p. 990; Gaz. vol. 163; p. 157.
Grate. H. Benton. No. 987,945; Mar. 28; Sp. p. 4673; Gaz. vol. 164; p. 837.
Grate. A. W. Hulson. No. 998,247; July 18; Sp. p. 3576; Gaz. vol. 168; p. 641.
Grate. A. V. Davidson. No. 1,001,361; Aug. 22; Sp. p. 4667; Gaz. vol. 169; p. 842.
Grate. T. Grieve. No. 1,002,200; Aug. 29; Sp. p. 6392; Gaz. vol. 169; p. 1152.
Grate, Adjustable fireplace-. J. M. Massey. No. 1,008,170; Nov. 7; Sp. p. 1107; Gaz. vol. 172; p. 182.
Grate-bar. H. B. Eells. No. 997,119; July 4; Sp. p. 1095; Gaz. vol. 168; p. 178.
Grate-bar. E. B. Colby. No. 997,904; July 11; Sp. p. 2795; Gaz. vol. 168; p. 478.
Grate-bar. J. H. Dunavon. No. 1,010,243; Nov. 28; Sp. p. 5695; Gaz. vol. 172; p. 1018.
Grate-bar, Force-draft hollow. W. H. Palmer. No. 997,507; July 11; Sp. p. 1878; Gaz. vol. 168; p. 338.
Grate, Chain-. R. Klepke. No. 996,095; June 27; Sp. p. 4352; Gaz. vol. 167; p. 788.
Grate, Chain-. F. Girtanner. No. 1,001,385; Aug. 22; Sp. p. 4708; Gaz. vol. 169; p. 849.
Grate, Fire-. E. Hall-Brown. No. 980,247; Jan. 3; Sp. p. 132; Gaz. vol. 162; p. 26.
Grate, Fire-. J. M. Call. No. 981,528; Jan. 10; Sp. p. 3055; Gaz. vol. 162; p. 498.
Grate, Fire-. J. B. Clark. No. 1,000,716; Aug. 15; Sp. p. 3241; Gaz. vol. 169; p. 585.
Grate, Fireplace-. R. C. Andrews. No. 989,474; Apr. 11; Sp. p. 2493; Gaz. vol. 165; p. 422.
Grate for water-gas and other apparatus. I. N. Knapp. No. 991,728; May 9; Sp. p. 1948; Gaz. vol. 166; p. 350.
Grate, Rocking. W. H. Baush. No. 988,687; Apr. 4; Sp. p. 846; Gaz. vol. 165; p. 137.
Grate, Separating-. N. Colgen. No. 985,007; Feb. 21; Sp. p. 3743; Gaz. vol. 163; p. 661.
Grate-shaker. W. J. Simpson. No. 987,754; Mar. 28; Sp. p. 4213; Gaz. vol. 164; p. 769.

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Grate, Shaking and dumping. T. S. Downham. No. 1,001,741; Aug. 29; Sp. p. 5431; Gaz. vol. 169; p. 1000.
Grate structure. J. R. Fortune and H. S. Wells. No. 981,408; Jan. 10; Sp. p. 2833; Gaz. vol. 162; p. 457.
Grate, Traveling. C. M. East. No. 1,009,655; Nov. 21; Sp. p. 4482; Gaz. vol. 172; p. 772.
Grate, Traveling stoker-. F. W. Hedden. No. 1,010,758; Dec. 5; Sp. p. 802; Gaz. vol. 173; p. 126.
Grates, Air-feeding attachment for. F. Hilburger. No. 981,263; Jan. 10; Sp. p. 2505; Gaz. vol. 162; p. 407.
Grater. S. M. Silberberg. No. 1,008,438; Nov. 14; Sp. p. 1834; Gaz. vol. 172; p. 316.
Grater for culinary use. J. Kasarda. No. 986,575; Mar. 14; Sp. p. 1739; Gaz. vol. 164; p. 308.
Grater, Rotary. R. Golensky. No. 995,532; June 20; Sp. p. 3131; Gaz. vol. 167; p. 557.
Grating, Automatically-closing. W. N. Wade. No. 1,006,029; Oct. 17; Sp. p. 3195; Gaz. vol. 171; p. 573.
Grave-brace. A. H. Havard. No. 991,981; May 9; Sp. p. 2448; Gaz. vol. 166; p. 434.
Grave-digger's dirt-box. H. M. Stahl. No. 990,075; Apr. 18; Sp. p. 3806; Gaz. vol. 165; p. 659.
Grave-linings, Device for supporting. U. H. Deering. No. 1,003,240; Sept. 12; Sp. p. 2328; Gaz. vol. 170; p. 400.
Grave-protector. J. Biggs. No. 991,939; May 9; Sp. p. 2372; Gaz. vol. 166; p. 421.
Gravel loader and excavator. F. Hollowell. No. 989,263; Apr. 11; Sp. p. 2059; Gaz. vol. 165; p. 351.
Gravel or ore screen. F. J. Hoyt. No. 985,809; Mar. 7; Sp. p. 83; Gaz. vol. 164; p. 18.
Gravel-screen. A. A. Regnier. No. 995,567; June 20; Sp. p. 3199; Gaz. vol. 167; p. 569.
Grease and oil extracting apparatus. C. Edgerton. No. 991,491; May 9; Sp. p. 1419; Gaz. vol. 166; p. 267.
Grease-box, Detachable. V. Stevenson. No. 996,293; June 27; Sp. p. 4818; Gaz. vol. 167; p. 854.
Grease-cup. R. Hickish. No. 984,481; Feb. 14; Sp. p. 2633; Gaz. vol. 163; p. 445.
Grease-cup. O. N. Terry. No. 989,311; Apr. 11; Sp. p. 2167; Gaz. vol. 165; p. 369.
Grease-cup. G. J. Thomson and R. R. Armstrong. No. 992,825; May 23; Sp. p. 4265; Gaz. vol. 166; p. 787.
Grease-cup. H. O. Smith. No. 993,896; May 30; Sp. p. 6572; Gaz. vol. 166; p. 1184.
Grease-cup. G. W. Thrailkill. No. 994,429; June 6; Sp. p. 682; Gaz. vol. 167; p. 117.
Grease-cup. F. L. Treese. No. 1,003,305; Sept. 12; Sp. p. 2456; Gaz. vol. 170; p. 423.
Grease-cup. M. Mickelsen. No. 1,011,985; Dec. 19; Sp. p. 3569; Gaz. vol. 173; p. 624.
Grease-cup. I. T. Johns. No. 1,012,361; Dec. 19; Sp. p. 4401; Gaz. vol. 173; p. 753.
Grease-cup. M. Henry. No. 1,012,546; Dec. 19; Sp. p. 4758; Gaz. vol. 173; p. 816.
Grease-cup, Automatic. J. F. Lewis. No. 1,003,276; Sept. 12; Sp. p. 2401; Gaz. vol. 170; p. 413.
Grease-cup closure. I. E. Du Bois. No. 995,775; June 20; Sp. p. 3686; Gaz. vol. 167; p. 643.
Grease-cup filler. G. R. La Rue. No. 980,804; Jan. 3; Sp. p. 1339; Gaz. vol. 162; p. 2[illegible]5.
Grease-cup, Ratchet. G. W. Bowen. No. 997,176; July 4; Sp. p. 1225; Gaz. vol. 168; p. 198.
Grease-gun. S. P. Townsend. No. 983,095; Jan. 31; Sp. p. 6411; Gaz. vol. 162; p. 1114.
Grease-gun. W. P. Miller. No. 983,636; Feb. 7; Sp. p. 812; Gaz. vol. 163; p. 130.
Grease-gun. C. A. Wilson. No. 988,422; Apr. 4; Sp. p. 285; Gaz. vol. 165; p. 46.
Grease-gun. A. T. Wood. No. 999,939; Aug. 8; Sp. p. 1494; Gaz. vol. 169; p. 283.
Grease lubricator. F. Lowry. (Reissue.) No. 13,269; July 11; Sp. p. 2896; Gaz. vol. 168; p. 495.
Grease lubricator. F. Lowry. (Reissue.) No. 13,270; July 11; Sp. p. 2899; Gaz. vol. 168; p. 496.
Grease lubricator. J. C. Ross. No. 1,004,910; Oct. 3; Sp. p. 799; Gaz. vol. 171; p. 128.
Grease-plug. O. N. Terry. No. 1,009,113; Nov. 21; Sp. p. 3308; Gaz. vol. 172; p. 585.
Grease, Preserving. S. Fenger. No. 995,240; June 13; Sp. p. 2469; Gaz. vol. 167; p. 428.
Greaser, Elevator-rail. W. A. Garvens and C. J. Gecks. No. 984,206; Feb. 14; Sp. p. 2086; Gaz. vol. 163; p. 353.
Greenhouse-bench. J. H. Pladeck. No. 984,964; Feb. 21; Sp. p. 3669; Gaz. vol. 163; p. 647.
Greenhouse construction. O. W. and G. A. Herms. No. 980,255; Jan. 3; Sp. p. 145; Gaz. vol. 162; p. 29.
Greenhouse, Miniature. F. W. Schwarz. No. 1,005,078; Oct. 3; Sp. p. 1087; Gaz. vol. 171; p. 183.
Grenade. E. B. Babbitt. No. 981,357; Jan. 10; Sp. p. 2713; Gaz. vol. 162; p. 440.
Grinder. W. J. Mandley. No. 995,071; June 13; Sp. p. 2153; Gaz. vol. 167; p. 373.
Grinder attachment. J. M. Jensen and E. C. Le Blanc. No. 987,466; Mar. 21; Sp. p. 3612; Gaz. vol. 164; p. 643.
Grinder attachment, Disk-. F. N. and F. E. Gardner. No. 1,001,631; Aug. 29; Sp. p. 5184; Gaz. vol. 169; p. 961.
Grinder-clamp. G. E. Kent. No. 986,466; Mar. 14; Sp. p. 1500; Gaz. vol. 164; p. 271.
Grinder for ensilage-cutter and other knives. E. J. Young. No. 999,943; Aug. 8; Sp. p. 1502; Gaz. vol. 169; p. 284.
Grinder for mower-sections. W. A. Horton. No. 1,010,632; Dec. 5; Sp. p. 521; Gaz. vol. 173; p. 81.
Grinder, Portable. A. Scott. No. 981,013; Jan. 10; Sp. p. 1922; Gaz. vol. 162; p. 319.
Grinder, Razor-blade. M. G. Bunnell. No. 1,005,808; Oct. 17; Sp. p. 2707; Gaz. vol. 171; p. 495.
Grinder, Sample-. A. J. McCone and C. Lipe. No. 984,583; Feb. 21; Sp. p. 2894; Gaz. vol. 163; p. 515.
Grinder, Saw-. E. H. Sterling. No. 981,135; Jan. 10; Sp. p. 2193; Gaz. vol. 162; p. 361.
Grinder, Steak-. E. H. Short. No. 996,891; July 4; Sp. p. 605; Gaz. vol. 168; p. 99.
Grinder, Surface-. J. Kerwin. No. 1,004,276; Sept. 26; Sp. p. 4616; Gaz. vol. 170; p. 816.
Grinder, Table pepper-. L. E. Deudon. No. 997,969; July 18; Sp. p. 2958; Gaz. vol. 168; p. 542.
Grinders, Work-holder for. J. L. Burleson. No. 997,961; July 18; Sp. p. 2939; Gaz. vol. 168; p. 540.
Grinding and dressing machine for castings. B. Tóth. No. 987,511; Mar. 21; Sp. p. 3689; Gaz. vol. 164; p. 658.
Grinding and jointing appliance for planers. H. J. Mitchell. No. 987,478; Mar. 21; Sp. p. 3633; Gaz. vol. 164; p. 647.
Grinding and polishing machine. C. A. Will. No. 1,006,419; Oct. 17; Sp. p. 4077; Gaz. vol. 171; p. 711.
Grinding and polishing metallic balls, Machine for. A. Ringland. No. 981,310; Jan. 10; Sp. p. 2603; Gaz. vol. 162; p. 423.
Grinding and polishing tubular articles, &c., Apparatus for. W. G. Halsey and J. Currier. No. 981,417; Jan. 10; Sp. p. 2851; Gaz. vol. 162; p. 460.
Grinding and polishing wheel. F. J. Tone. No. 986,246; Mar. 7; Sp. p. 1026; Gaz. vol. 164; p. 165.
Grinding and sharpening machine. J. D. Virdin. No. 999,610; Aug. 1; Sp. p. 814; Gaz. vol. 169; p. 142.
Grinding attachment for planing-machines, Knife-. L. B. Whipple. No. 983,850; Feb. 7; Sp. p. 1272; Gaz. vol. 163; p. 204.
Grinding attachment, Hob-. W. F. Groene and H. C. Pierle. No. 998,088; July 18; Sp. p. 3232; Gaz. vol. 168; p. 584.
Grinding blades, Apparatus for. R. T. Winn. No. 981,511; Jan. 10; Sp. p. 3019; Gaz. vol. 162; p. 492.
Grinding blades, Apparatus for. R. T. Winn. No. 1,009,877; Nov. 28; Sp. p. 4950; Gaz. vol. 172; p. 894.
Grinding-burs, Automatic release for. W. C. Pritchard. No. 1,011,243; Dec. 12; Sp. p. 1906; Gaz. vol. 173; p. 328.
Grinding cereals, Method of and apparatus for. I. A. Chavanne and B. Ollagnier. No. 990,705; Apr. 25; Sp. p. 5262; Gaz. vol. 165; p. 908.
Grinding commutators of dynamos and motors, Machine for. W. H. Jordan. No. 982,367; Jan. 24; Sp. p. 4851; Gaz. vol. 162; p. 840.
Grinding device. I. P. Nichols. No. 992,037; May 9; Sp. p. 2547; Gaz. vol. 166; p. 452.
Grinding device. K. E. Ahlberg. No. 1,010,565; Dec. 5; Sp. p. 362; Gaz. vol. 173; p. 57.
Grinding device, Hand portable. C. E. Hart. No. 1,009,243; Nov. 21; Sp. p. 3614; Gaz. vol. 172; p. 631.
Grinding-disk. T. Kihlgren. No. 992,000; May 9; Sp. p. 2481; Gaz. vol. 166; p. 441.
Grinding-disk. J. G. Bryant. No. 1,009,021; Nov. 14; Sp. p. 3109; Gaz. vol. 172; p. 517.
Grinding-machine. H. Besser. No. 980,587; Jan. 3; Sp. p. 889; Gaz. vol. 162; p. 143.
Grinding-machine. H. B. Nichols. No. 980,882; Jan. 3; Sp. p. 1526; Gaz. vol. 162; p. 242.
Grinding-machine. A. A. Wood. No. 982,166; Jan. 17; Sp. p. 4405; Gaz. vol. 162; p. 738.
Grinding-machine. B. M. W. Hanson. No. 983,226; Jan. 31; Sp. p. 6660; Gaz. vol. 162; p. 1158.
Grinding-machine. F. A. Knapp. No. 988,577; Apr. 4; Sp. p. 620; Gaz. vol. 165; p. 100.
Grinding-machine. W. R. Wakefield. No. 988,841; Apr. 4; Sp. p. 1168; Gaz. vol. 165; p. 186.
Grinding-machine. R. P. Thompson. No. 989,206; Apr. 11; Sp. p. 1917; Gaz. vol. 165; p. 332.
Grinding-machine. E. W. Mitchel. No. 991,345; May 2; Sp. p. 1112; Gaz. vol. 166; p. 186.
Grinding-machine. L. F. Fales. No. 992,489; May 16; Sp. p. 3572; Gaz. vol. 166; p. 640.
Grinding-machine. C. K. Berg and K. F. Baumann. No. 992,702; May 16; Sp. p. 4001; Gaz. vol. 166; p. 714.
Grinding-machine. J. M. Thompson. No. 994,216; June 6; Sp. p. 240; Gaz. vol. 167; p. 41.
Grinding-machine. G. A. Hattersley and L. Koenig. No. 998,508; July 18; Sp. p. 4140; Gaz. vol. 168; p. 734.
Grinding-machine. B. M. W. Hanson and C. L. Grohmann. No. 1,000,516; Aug. 15; Sp. p. 2777; Gaz. vol. 169; p. 513.
Grinding-machine. J. G. Soderberg. No. 1,003,532; Sept. 19; Sp. p. 2917; Gaz. vol. 170; p. 533.
Grinding-machine. J. C. Mohr. No. 1,006,258; Oct. 17; Sp. p. 3730; Gaz. vol. 171; p. 655.
Grinding-machine. J. N. Heald. No. 1,006,550; Oct. 24; Sp. p. 4420; Gaz. vol. 171; p. 788.
Grinding-machine. A. Root. No. 1,007,391; Oct. 31; Sp. p. 6247; Gaz. vol. 171; p. 1137.
Grinding-machine. S. D. Olsen. No. 1,011,478; Dec. 12; Sp. p. 2418; Gaz. vol. 173; p. 414.

Grinding-machine abrading device. F. N. and F. E. Gardner. No. 1,010,040; Nov. 28; Sp. p. 5300; Gaz. vol. 172; p. 950.
Grinding-machine attachment, Disk-. F. N. and F. E. Gardner. No. 990,250; Apr. 25; Sp. p. 4213; Gaz. vol. 165; p. 751.
Grinding-machine attachment, Disk-. F. N. and F. E. Gardner. No. 1,001,133; Aug. 22; Sp. p. 4186; Gaz. vol. 169; p. 765.
Grinding machine, Cutter-. H. E. Eberhardt. No. 987,449; Mar. 21; Sp. p. 3577; Gaz. vol. 164; p. 637.
Grinding machine, Disk-. W. H. Brower and B. Bonnichsen. No. 990,332; Apr. 25; Sp. p. 4406; Gaz. vol. 165; p. 780.
Grinding machine, Disk-. C. H. McCaughey. No. 1,003,631; Sept. 19; Sp. p. 3149; Gaz. vol. 170; p. 568.
Grinding-machine, Emery-wheel. G. E. J. Jobin. No. 991,068; May 2; Sp. p. 498; Gaz. vol. 166; p. 86.
Grinding-machine for sharpening edged tools. E. S. Mummert. No. 987,589; Mar. 21; Sp. p. 3841; Gaz. vol. 164; p. 685.
Grinding machine, Hob-. P. Catucci. No. 986,688; Mar. 14; Sp. p. 1973; Gaz. vol. 164; p. 348.
Grinding-machine, Multispindle. W. L. Bryant. No. 983,975; Feb. 14; Sp. p. 1560; Gaz. vol. 163; p. 274.
Grinding machine, Needle or pin point. D. M. Davis. No. 992,859; May 23; Sp. p. 4348; Gaz. vol. 166; p. 799.
Grinding machine, Roller- O. A. Schmidt. No. 997,706; July 11; Sp. p. 2309; Gaz. vol. 168; p. 408.
Grinding-machines, Steady-rest for. C. H. Norton. No. 1,009,989; Nov. 28; Sp. p. 5180; Gaz. vol. 172; p. 931.
Grinding-machines, Wheel-feed for. C. H. Norton. No. 982,628; Jan. 24; Sp. p. 5381; Gaz. vol. 162; p. 928.
Grinding-mill. W. F. Gunn. No. 982,595; Jan. 24; Sp. p. 5319; Gaz. vol. 162; p. 917.
Grinding-mill. M. J. Davidsen. No. 983,028; Jan. 31; Sp. p. 6275; Gaz. vol. 162; p. 1091.
Grinding-mill. J. N. Bosch, Jr. No. 984,505; Feb. 14; Sp. p. 2695; Gaz. vol. 163; p. 453.
Grinding-mill. W. P. Harris and J. R. Jenkins. No. 992,658; May 16; Sp. p. 3918; Gaz. vol. 166; p. 698.
Grinding-mill. F. A. Ryther. No. 993,462; May 30; Sp. p. 5647; Gaz. vol. 166; p. 1033.
Grinding-mill. R. F. Abbé. No. 997,592; July 11; Sp. p. 2059; Gaz. vol. 168; p. 368.
Grinding-mill. L. B. McCargar. No. 1,002,419; Sept. 5; Sp. p. 547; Gaz. vol. 170; p. 78.
Grinding-mill. G. and J. Holland-Letz. No. 1,006,554; Oct. 24; Sp. p. 4428; Gaz. vol. 171; p. 790.
Grinding-mill. C. E. Bell. No. 1,009,887; Nov. 28; Sp. p. 4970; Gaz. vol. 172; p. 898.
Grinding-mills, Shaft-bearing for. C. and D. Schoch. No. 999,600; Aug. 1; Sp. p. 798; Gaz. vol. 169; p. 139.
Grinding or crushing mill. F. H. and F. H. Brown. No. 1,008,946; Nov. 14; Sp. p. 2940; Gaz. vol. 172; p. 491.
Grinding or honing device. J. L. Walker. No. 1,012,771; Dec. 26; Sp. p. 5243; Gaz. vol. 173; p. 939.
Grinding or honing device. J. L. Walker. No. 1,012,772; Dec. 26; Sp. p. 5247; Gaz. vol. 173; p. 940.
Grinding or surfacing metallic and other cylindrical bodies, Machinery for. J. Dronsfield. No. 1,003,719; Sept. 19; Sp. p. 3347; Gaz. vol. 170; p. 599.
Grinding rollers, Machine for. O. A. Schmidt. No. 1,002,765; Sept. 5; Sp. p. 1298; Gaz. vol. 170; p. 195.
Grinding spirally twisted or fluted tools, Machine for. T. McGarrity. No. 997,685; July 11; Sp. p. 2266; Gaz. vol. 168; p. 401.
Grinding-tool holder. C. S. Mason. No. 980,654; Jan. 3; Sp. p. 1050; Gaz. vol. 162; p. 166.
Grinding variable curves, Machine for. S. Witmer. No. 995,393; June 13; Sp. p. 2815; Gaz. vol. 167; p. 479.
Grinding watch-crystals, Machine for. H. A. Borresen. No. 1,002,124; Aug. 29; Sp. p. 6229; Gaz. vol. 169; p. 1126.
Grinding-wheel. H. B. Nichols. No. 985,116; Feb. 21; Sp. p. 3957; Gaz. vol. 163; p. 699.
Grinding-wheels, Device for dressing. S. W. Nesbitt. No. 1,001,430; Aug. 22; Sp. p. 4795; Gaz. vol. 169; p. 864.
Grinding-wheels, Producing and operating. H. B. Nichols. No. 984,961; Feb. 21; Sp. p. 3663; Gaz. vol. 163; p. 646.
Grindstone attachment. D. I. Sterling. No. 981,810; Jan. 17; Sp. p. 3646; Gaz. vol. 162; p. 617.
Grip device, Intermittent-. A. Mehl. No. 999,175; July 25; Sp. p. 5603; Gaz. vol. 168; p. 997.
Grip device, Intermittent-. H. W. Fellows. No. 1,005,182; Oct. 10; Sp. p. 1304; Gaz. vol. 171; p. 243.
Grip device, Intermittent-. H. W. Fellows. No. 1,012,535; Dec. 19; Sp. p. 4730; Gaz. vol. 173; p. 812.
Grip, Hand-. H. U. True. No. 1,012,299; Dec. 19; Sp. p. 4277; Gaz. vol. 173; p. 734.
Gripper. A. C. Spencer. No. 1,001,701; Aug. 29; Sp. p. 5347; Gaz. vol. 169; p. 986.
Gripper. E. A. Stiggins. No. 1,012,742; Dec. 26; Sp. p. 5189; Gaz. vol. 173; p. 930.
Grippers. P. H. Doherty. No. 1,002,828; Sept. 12; Sp. p. 1432; Gaz. vol. 170; p. 255.
Gripping device. C. F. Cater. No. 1,004,366; Sept. 26; Sp. p. 4791; Gaz. vol. 170; p. 846.
Gripping, fastening, or locking purposes, Device for. D. P. Jones. No. 1,005,227; Oct. 10; Sp. p. 1413; Gaz. vol. 171; p. 258.
Gripping mechanism. J. T. F. Conti. No. 989,696; Apr. 18; Sp. p. 3014; Gaz. vol. 165; p. 530.
Grit for poultry. J. E. Smith. No. 996,289; June 27; Sp. p. 4811; Gaz. vol. 167; p. 853.
Grooving-knife. B. L. Abbott. No. 989,541; Apr. 11; Sp. p. 2662; Gaz. vol. 165; p. 447.
Grounding-clamp. M. H. Bodley and F. T. Kleffman. No. 996,606; July 4; Sp. p. 13; Gaz. vol. 168; p. 4.
Grubbing-frame. R. H. Fisher. No. 983,129; Jan. 31; Sp. p. 6472; Gaz. vol. 162; p. 1125.
Guano-distributer. H. M. Spencer. No. 988,220; Mar. 28; Sp. p. 5233; Gaz. vol. 164; p. 928.
Guano-distributer. W. R. Graves. No. 1,001,197; Aug. 22; Sp. p. 4303; Gaz. vol. 169; p. 785.
Guard-bar. M. F. Williams and E. H. Frickey. No. 1,001,108; Aug. 22; Sp. p. 4139; Gaz. vol. 169; p. 758.
Guard device. D. De Rosa. No. 1,010,352; Nov. 28; Sp. p. 5920; Gaz. vol. 172; p. 1054.
Guard, Self-adjusting. S. Eskin. No. 995,122; June 13; Sp. p. 2238; Gaz. vol. 167; p. 389.
Guiding device, Automatic. W. C. Stephens. No. 1,005,351; Oct. 10; Sp. p. 1708; Gaz. vol. 171; p. 305.
Guitar. A. Degulio. No. 1,010,240; Nov. 28; Sp. p. 5692; Gaz. vol. 172; p. 1017.
Gum, Chewing-. T. J. Lynch. No. 987,003; Mar. 14; Sp. p. 2618; Gaz. vol. 164; p. 453.
Gum from its vegetable source, Separating rubber-like. W. A. Lawrence. No. 982,373; Jan. 24; Sp. p. 4860; Gaz. vol. 162; p. 841.
Gum, Manufacture of chewing-. A. M. Price. No. 992,590; May 16; Sp. p. 3797; Gaz. vol. 166; p. 677.
Gum, Manufacture of chewing-. J. D. Darling. No. 1,005,001; Oct. 3; Sp. p. 950; Gaz. vol. 171; p. 158.
Gum or other fluid or semi fluid materials, Apparatus for applying. F. M. Furber. No. 1,004,768; Oct. 3; Sp. p. 478; Gaz. vol. 171; p. 79.
Gummer. G. T. Lemelin. No. 996,988; July 4; Sp. p. 831; Gaz. vol. 168; p. 134.
Gumming-machine. C. H. Heywood and D. E. Travis. No. 998,246; July 18; Sp. p. 3574; Gaz. vol. 168; p. 641.
Gumming machine, Package-. J. R. Harbeck. No. 988,335; Apr. 4; Sp. p. 96; Gaz. vol. 165; p. 17.
Gumming mechanism for box-machines, &c. C. E. White. No. 985,238; Feb. 28; Sp. p. 4299; Gaz. vol. 163; p. 777.
Gun. R. Hazelrigg. No. 981,418; Jan. 10; Sp. p. 2853; Gaz. vol. 162; p. 461.
Gun. W. D. Smith. No. 983,781; Feb. 7; Sp. p. 1119; Gaz. vol. 163; p. 179.
Gun. K. Völler. No. 989,453; Apr. 11; Sp. p. 2448; Gaz. vol. 165; p. 414.
Gun. I. H. Rodehaver. No. 990,669; Apr. 25; Sp. p. 5196; Gaz. vol. 165; p. 896.
Gun. J. H. Brown. No. 997,539; July 11; Sp. p. 1948; Gaz. vol. 168; p. 349.
Gun. E. Pordon and M. Pasquarelli. No. 1,003,790; Sept. 19; Sp. p. 3495; Gaz. vol. 170; p. 622.
Gun. A. Reibstein. No. 1,006,402; Oct. 17; Sp. p. 4046; Gaz. vol. 171; p. 705.
Gun adapted to fire at high elevations. K. Völler. No. 1,010,330; Nov. 28; Sp. p. 5875; Gaz. vol. 172; p. 1046.
Gun, Air-. W. J. Burrows. No. 984,072; Feb. 14; Sp. p. 1789; Gaz. vol. 163; p. 308.
Gun-barrel and analogous object. F. Hatlanek. No. 1,005,115; Oct. 3; Sp. p. 1158; Gaz. vol. 171; p. 196.
Gun breech-block mechanism. E. Müller. No. 1,003,288; Sept. 12; Sp. p. 2425; Gaz. vol. 170; p. 417.
Gun, Breech-loading. G. S. Lewis. No. 983,559; Feb. 7; Sp. p. 671; Gaz. vol. 163; p. 103.
Gun-carriage. N. Koch. No. 980,645; Jan. 3; Sp. p. 1001; Gaz. vol. 162; p. 163.
Gun-carriage. N. Koch. No. 985,179; Feb. 28; Sp. p. 4159; Gaz. vol. 163; p. 756.
Gun-carriage, Disappearing. A. H. Emery. No. 1,012,618; Dec. 26; Sp. p. 4921; Gaz. vol. 173; p. 886.
Gun-cleaner. G. A. Swazey. No. 1,004,710; Oct. 3; Sp. p. 363; Gaz. vol. 171; p. 59.
Gun-cleaning rod, Combination telescoping. D. W. King. No. 1,008,548; Nov. 14; Sp. p. 2078; Gaz. vol. 172; p. 356.
Gun-cleaning rod, Telescopic. A. Aardahl. No. 1,007,512; Oct. 31; Sp. p. 6511; Gaz. vol. 171; p. 1177.
Gun-closure safety device. M. Hermsdorf. No. 987,135; Mar. 21; Sp. p. 2877; Gaz. vol. 164; p. 528.
Gun, Differential-recoil. K. Haussner. No. 986,387; Mar. 7; Sp. p. 1326; Gaz. vol. 164; p. 214.
Gun, Differential-recoil. K. Haussner. No. 994,156; June 6; Sp. p. 103; Gaz. vol. 167; p. 20.
Gun-elevating mechanism. N. Koch. No. 988,641; Apr. 4; Sp. p. 758; Gaz. vol. 165; p. 121.
Gun firing mechanism. E. Alger. No. 1,000,317; Aug. 8; Sp. p. 2320; Gaz. vol. 169; p. 412.
Gun firing mechanism. J. F. Meigs, F. G. Hughes, and R. P. Stout. No. 1,007,720; Nov. 7; Sp. p. 149; Gaz. vol. 172; p. 24.
Gun firing mechanism. L. W. Taylor. No. 1,008,091; Nov. 7; Sp. p. 949; Gaz. vol. 172; p. 153.

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Gun firing mechanism, Breech-loading-. A. T. Dawson and G. T. Buckham. No. 994,702; June 6; Sp. p. 1275; Gaz. vol. 167; p. 208.
Gun firing mechanism, Breech-loading-. A. T. Dawson and G. T. Buckham. No. 994,703; June 6; Sp. p. 1277; Gaz. vol. 167; p. 208.
Gun firing mechanism, Breech-loading-. A. T. Dawson and G. T. Buckham. No. 994,704; June 6; Sp. p. 1280; Gaz. vol. 167; p. 209.
Gun, Gas-operated. S. N. McClean. No. 1,003,632; Sept. 19; Sp. p. 3151; Gaz. vol. 170; p. 569.
Gun, Gas-operated machine-. S. N. McClean. No. 1,005,263; Oct. 10; Sp. p. 1499; Gaz. vol. 171; p. 273.
Gun having a recoiling barrel. K. Völler. No. 1,000,216; Aug. 8; Sp. p. 2129; Gaz. vol. 169; p. 379.
Gun having a recoiling barrel, Field-. K. Völler. No. 1,000,647; Aug. 15; Sp. p. 3100; Gaz. vol. 169; p. 562.
Gun-license-certificate holder. O. R. Duncan. No. 1,002,657; Sept. 5; Sp. p. 1055; Gaz. vol. 170; p. 158.
Gun lock, Multibarreled-. W. L. Marble. No. 982,150; Jan. 17; Sp. p. 4382; Gaz. vol. 162; p. 733.
Gun, Machine-. P. A. Dupcza. No. 990,642; Apr. 25; Sp. p. 5091; Gaz. vol. 165; p. 888.
Gun mechanism, Single-trigger. J. D. Russ. No. 1,013,068; Dec. 26; Sp. p. 5943; Gaz. vol. 173; p. 1040.
Gun mount and shield. J. F. Meigs and H. G. Jakobsson. No. 1,007,224; Oct. 31; Sp. p. 5900; Gaz. vol. 171; p. 1077.
Gun-mount, Automobile. S. N. McClean. No. 1,004,887; Oct. 3; Sp. p. 754; Gaz. vol. 171; p. 121.
Gun-mount, Collapsible. W. Sonnberg. No. 1,012,738; Dec. 26; Sp. p. 5184; Gaz. vol. 173; p. 929.
Gun, Recoil-. M. Hermsdorf. No. 987,462; Mar. 21; Sp. p. 3605; Gaz. vol. 164; p. 642.
Gun, Recoil-. H. Lehmann. No. 988,791; Apr. 4; Sp. p. 1070; Gaz. vol. 165; p. 171.
Gun, Recoil-. M. Hermsdorf. No. 1,003,106; Sept. 12; Sp. p. 2040; Gaz. vol. 170; p. 351.
Gun recoil device, Field-. G. Falter. No. 985,334; Feb. 28; Sp. p. 4494; Gaz. vol. 163; p. 809.
Gun, Running-out. K. Haussner. No. 997,912; July 11; Sp. p. 2812; Gaz. vol. 168; p. 480.
Gun, Semi-automatic. L. L. Driggs. No. 996,569; June 27; Sp. p. 5415; Gaz. vol. 167; p. 947.
Gun-shell attachment. W. W. Burnett. No. 991,945; May 9; Sp. p. 2381; Gaz. vol. 166; p. 423.
Gun, Shoulder-piece. P. Haacker. No. 1,003,102; Sept. 12; Sp. p. 2033; Gaz. vol. 170; p. 350.
Gun-sight. H. Korrodi. No. 985,181; Feb. 28; Sp. p. 4163; Gaz. vol. 163; p. 757.
Gun-sight. J. D. Russ. No. 990,783; Apr. 25; Sp. p. 5433; Gaz. vol. 165; p. 936.
Gun-sight. C. F. McCleary. No. 1,003,933; Sept. 19; Sp. p. 3816; Gaz. vol. 170; p. 671.
Gun-sight support. J. F. Meigs and H. G. Jakobsson. No. 1,000,744; Aug. 15; Sp. p. 3295; Gaz. vol. 169; p. 596.
Gun-sight, Telescope. O. Grauheding. No. 1,004,416; Sept. 26; Sp. p. 4898; Gaz. vol. 170; p. 863.
Gun-sighting device. O. R. von Eberhard. No. 988,760; Apr. 4; Sp. p. 1014; Gaz. vol. 165; p. 161.
Gun-silencer. H. Craven. No. 984,750; Feb. 21; Sp. p. 3261; Gaz. vol. 163; p. 576.
Gun-stock. W. S. Alves. No. 1,007,048; Oct. 31; Sp. p. 5474; Gaz. vol. 171; p. 1013.
Gun trigger device. H. Vötsch. No. 987,514; Mar. 21; Sp. p. 3694; Gaz. vol. 164; p. 659.
Gun, Tubular-magazine repeating. W. Bennett. No. 993,817; May 30; Sp. p. 6434; Gaz. vol. 166; p. 1159.
Gun with an independent sighting-line. H. Korrodi. No. 1,003,115; Sept. 12; Sp. p. 2057; Gaz. vol. 170; p. 354.
Gun with barrel-recoil of uniform length. W. Heilemann. No. 1,010,908; Dec. 5; Sp. p. 1134; Gaz. vol. 173; p. 179.
Gun with differential recoil. K. Haussner. No. 988,776; Apr. 4; Sp. p. 1046; Gaz. vol. 165; p. 167.
Guns, Automatic single-trigger mechanism for double-barrel. J. Kautzky. No. 990,562; Apr. 25; Sp. p. 4935; Gaz. vol. 165; p. 861.
Guns, Breech-piece for. K. Völler. No. 1,008,223; Nov. 7; Sp. p. 1244; Gaz. vol. 172; p. 203.
Guns, Fluid-brake for. W. Heilemann. No. 985,170; Feb. 28; Sp. p. 4137; Gaz. vol. 163; p. 752.
Guns, Hammer for double-barreled. W. L. Marble. No. 982,152; Jan. 17; Sp. p. 4385; Gaz. vol. 162; p. 733.
Guns having recoiling barrels, Hydraulic brake for. K. Völler. No. 993,003; May 23; Sp. p. 4664; Gaz. vol. 166; p. 850.
Guns, Hinge for tilting-barrel. F. Jäger. No. 1,004,269; Sept. 26; Sp. p. 4606; Gaz. vol. 170; p. 814.
Guns, Hydraulic brake for. K. Völler. No. 1,010,707; Dec. 5; Sp. p. 674; Gaz. vol. 173; p. 108.
Guns, Indicating and recording the aiming of. N. Pogolski. (Reissue.) No. 13,310; Nov. 7; Sp. p. 1419; Gaz. vol. 172; p. 231.
Guns, Pull mechanism for. M. Hermsdorf. No. 985,171; Feb. 28; Sp. p. 4139; Gaz. vol. 163; p. 753.
Guns, Shell-ejector for. F. T. Russell. No. 991,375; May 2; Sp. p. 1175; Gaz. vol. 166; p. 196.
Guns, Sighting-telescope for. G. A. H. Kellner. No. 1,000,607; Aug. 15; Sp. p. 3006; Gaz. vol. 169; p. 548.
Guns, Transport-carriage for. C. Schauwinhold. No. 1,006,882; Oct. 24; Sp. p. 5138; Gaz. vol. 171; p. 904.
Guns with recoiling barrels, Hydraulic brake for. E. Olsson. No. 997,411; July 11; Sp. p. 1695; Gaz. vol. 168; p. 308.
Gunpowder, Manufacture of smokeless. F. A. Ritschke. No. 1,009,577; Nov. 21; Sp. p. 4351; Gaz. vol. 172; p. 749.
Gusher and blow-out preventer. E. L. Savoie. No. 1,009,998; Nov. 28; Sp. p. 5203; Gaz. vol. 172; p. 934.
Gusset, Expanding. J. W. Hardesty. No. 986,055; Mar. 7; Sp. p. 640; Gaz. vol. 164; p. 103.
Gutter. A. H. Baker. No. 990,623; Apr. 25; Sp. p. 5059; Gaz. vol. 165; p. 881.
Gutter and the like hanger. F. G. Hyke, Sr. No. 1,000,411; Aug. 15; Sp. p. 2561; Gaz. vol. 169; p. 477.
Gymnasium apparatus. E. Rath. No. 998,634; July 25; Sp. p. 4431; Gaz. vol. 168; p. 810.
Gymnasium apparatus. J. McDermott. No. 1,003,193; Sept. 12; Sp. p. 2222; Gaz. vol. 170; p. 382.
Gymnasiums, Horizontal-bar structure for. M. B. Reach. No. 1,003,797; Sept. 19; Sp. p. 3508; Gaz. vol. 170; p. 624.
Gymnastics, Pendulum apparatus for hygienic. L. Càro. No. 1,007,526; Oct. 31; Sp. p. 6538; Gaz. vol. 171; p. 1182.
Gyrating screen. A. D. Hughes. No. 999,563; Aug. 1; Sp. p. 737; Gaz. vol. 169; p. 126.
Gyrocycle. E. N. Darrow. No. 991,485; May 9; Sp. p. 1405; Gaz. vol. 166; p. 265.
Gyroscopic top. J. F. O'Byrne. No. 999,247; Aug. 1; Sp. p. 113; Gaz. vol. 169; p. 21.
Hacksaw. C. B. Chandler. No. 982,937; Jan. 31; Sp. p. 6062; Gaz. vol. 162; p. 1060.
Hacksaw. C. F. Duke. No. 1,000,159; Aug. 8; Sp. p. 1998; Gaz. vol. 169; p. 358.
Hacksaw, Portable. E. S. Bradford, Jr., and M. Olson. No. 1,004,736; Oct. 3; Sp. p. 411; Gaz. vol. 171; p. 68.
Hacksaw, Power-. E. S. Bradford, Jr., and M. Olson. No. 988,624; Apr. 4; Sp. p. 725; Gaz. vol. 165; p. 115.
Hacksaw, Power-. H. J. Leland. No. 989,164; Apr. 11; Sp. p. 1836; Gaz. vol. 165; p. 318.
Hacksaw, Power-. E. S. Bradford, Jr., and M. Olson. No. 1,004,651; Oct. 3; Sp. p. 218; Gaz. vol. 171; p. 38.
Hacksaws, Stroke-adjusting mechanism for power-. E. S. Bradford, Jr., and M. Olson. No. 981,837; Jan. 17; Sp. p. 3705; Gaz. vol. 162; p. 627.
Hair-crimper. P. C. Graule. No. 993,056; May 23; Sp. p. 4779; Gaz. vol. 166; p. 869.
Hair-curler. A. A. West and W. H. Gatchell. No. 984,331; Feb. 14; Sp. p. 2345; Gaz. vol. 163; p. 397.
Hair-curler. P. E. Herrmann. No. 1,001,029; Aug. 22; Sp. p. 3968; Gaz. vol. 169; p. 729.
Hair-curler, Cloth. P. J. Moll. No. 1,009,923; Nov. 28; Sp. p. 5032; Gaz. vol. 172; p. 909.
Hair-curling device. D. Marinsky. No. 983,074; Jan. 31; Sp. p. 6371; Gaz. vol. 162; p. 1107.
Hair-cutter. A. R. Fordyce. No. 1,004,404; Sept. 26; Sp. p. 4864; Gaz. vol. 170; p. 860.
Hair cutting and shearing machine. F. Kober. No. 994,470; June 6; Sp. p. 746; Gaz. vol. 167; p. 128.
Hair-cutting device. R. Campbell. No. 1,002,196; Aug. 29; Sp. p. 6386; Gaz. vol. 169; p. 1150.
Hair-cutting gage. C. W. Sharrow. No. 1,013,077; Dec. 26; Sp. p. 5962; Gaz. vol. 173; p. 1044.
Hair-drier. G. M. Kazanjian. No. 994,259; June 6; Sp. p. 326; Gaz. vol. 167; p. 56.
Hair-drier. L. M. Emmons. No. 1,000,164; Aug. 8; Sp. p. 2009; Gaz. vol. 169; p. 360.
Hair-drier, Electric. H. J. Mauger. No. 1,006,767; Oct. 24; Sp. p. 4860; Gaz. vol. 171; p. 863.
Hair-drying device. F. E. Hawkes. No. 1,004,646; Oct. 3; Sp. p. 207; Gaz. vol. 171; p. 36.
Hair-drying, &c., Machine for. H. V. Halliwell. No. 981,641; Jan. 17; Sp. p. 3286; Gaz. vol. 162; p. 558.
Hair for felting or like purposes, Treatment of. B. Ronjat. No. 993,461; May 30; Sp. p. 5646; Gaz. vol. 166; p. 1033.
Hair from haircloth, Separating. M. Brodkowsky. No. 1,009,019; Nov. 14; Sp. p. 3104; Gaz. vol. 172; p. 516.
Hair in pulp, Securing natural or artificial. L. Kubelka. No. 1,000,525; Aug. 15; Sp. p. 2801; Gaz. vol. 169; p. 517.
Hair-ironing comb. E. H. Taylor. No. 1,002,942; Sept. 12; Sp. p. 1713; Gaz. vol. 170; p. 296.
Hair ornament. F. C. Wilcox. No. 1,004,124; Sept. 26; Sp. p. 4303; Gaz. vol. 170; p. 765.
Hair-picking machine. G. M. Morgan. No. 1,000,430; Aug. 15; Sp. p. 2597; Gaz. vol. 169; p. 484.
Hair-pin. J. David. No. 1,009,029; Nov. 14; Sp. p. 3124; Gaz. vol. 172; p. 520.
Hair pin or ornament. W. S. Bechtold. No. 980,477; Jan. 3; Sp. p. 643; Gaz. vol. 162; p. 106.
Hair-pin, Ornamental. J. R. Martin. No. 1,007,586; Oct. 31; Sp. p. 6676; Gaz. vol. 171; p. 1202.
Hair-pin, Safety. A. Frederiksen. No. 994,917; June 13; Sp. p. 1830; Gaz. vol. 167; p. 322.

Alphabetical list of inventions—Continued.

Hair-rat. C. N. Stephens. No. 1,006,022; Oct. 17; Sp. p. 3182; Gaz. vol. 171; p. 571.
Hair-shield. H. E. Wallis. No. 999,922; Aug. 8; Sp. p. 1462; Gaz. vol. 169; p. 277.
Hair structure. I. L. Wolkow. No. 1,004,130; Sept. 26; Sp. p. 4316; Gaz. vol. 170; p. 768.
Hair-washing hood. O. B. Salisbury. No. 998,803; July 25; Sp. p. 4810; Gaz. vol. 168; p. 869.
Hair-washing hood. O. B. Salisbury. No. 998,804; July 25; Sp. p. 4813; Gaz. vol. 168; p. 870.
Hall-tree. C. A. Anderson. No. 1,007,765; Nov. 7; Sp. p. 252; Gaz. vol. 172; p. 41.
Halogen-oxygen compounds by electrolysis, Producing. M. Pier. No. 998,982; July 25; Sp. p. 5241; Gaz. vol. 168; p. 933.
Halter. C. Tallman. No. 985,642; Feb. 28; Sp. p. 5171; Gaz. vol. 163; p. 914.
Hame and trace connector. W. H. Brissette. No. 1,000,709; Aug. 15; Sp. p. 3227; Gaz. vol. 169; p. 583.
Hame attachment. J. H. Davis. No. 1,004,750; Oct. 3; Sp. p. 439; Gaz. vol. 171; p. 73.
Hame-fastener. N. J. Rogers. No. 982,995; Jan. 31; Sp. p. 6193; Gaz. vol. 162; p. 1080.
Hame-fastener. L. A. Baxter. No. 984,183; Feb. 14; Sp. p. 2005; Gaz. vol. 163; p. 344.
Hame-fastener. J. G. Overby. No. 988,654; Apr. 4; Sp. p. 784; Gaz. vol. 165; p. 125.
Hame-fastener. H. F. Hyman. No. 992,132; May 9; Sp. p. 2739; Gaz. vol. 166; p. 485.
Hame-fastener. C. G. Gerlach. No. 992,651; May 16; Sp. p. 3907; Gaz. vol. 166; p. 697.
Hame-fastener. G. Foster. No. 999,639; Aug. 1; Sp. p. 869; Gaz. vol. 169; p. 151.
Hame-fastener. E. L. Buck. No. 1,004,360; Sept. 26; Sp. p. 4778; Gaz. vol. 170; p. 844.
Hame-fastener. L. E. and T. J. Blunt. No. 1,011,403; Dec. 12; Sp. p. 2252; Gaz. vol. 173; p. 384.
Hame-housing. T. E. Blair. No. 980,749; Jan. 3; Sp. p. 1217; Gaz. vol. 162; p. 195.
Hames. W. A. M. Dunbar. No. 1,000,901; Aug. 15; Sp. p. 3621; Gaz. vol. 169; p. 651.
Hames and collar, Combined. C. Sieker. No. 996,432; June 27; Sp. p. 5160; Gaz. vol. 167; p. 903.
Hammer. A. Grant. No. 985,027; Feb. 21; Sp. p. 3790; Gaz. vol. 163; p. 669.
Hammer. M. E. Perring. No. 991,536; May 9; Sp. p. 1521; Gaz. vol. 166; p. 283.
Hammer. C. Forth. No. 1,001,261; Aug. 22; Sp. p. 4428; Gaz. vol. 169; p. 805.
Hammer and nail-puller, Combination. W. A. Day. No. 1,012,527; Dec. 19; Sp. p. 4714; Gaz. vol. 173; p. 810.
Hammer attachment. M. M. Mallory. No. 986,188; Mar. 7; Sp. p. 903; Gaz. vol. 164; p. 146.
Hammer, Brick-. J. A. Nelson. No. 994,775; June 13; Sp. p. 1489; Gaz. vol. 167; p. 273.
Hammer-drill. A. H. Taylor. No. 982,397; Jan. 24; Sp. p. 4904; Gaz. vol. 162; p. 850.
Hammer-drill. W. Prellwitz. No. 988,029; Mar. 28; Sp. p. 4867; Gaz. vol. 164; p. 865.
Hammer-drill. A. H. Taylor. No. 991,667; May 9; Sp. p. 1819; Gaz. vol. 166; p. 330.
Hammer-drill. A. H. Taylor. No. 992,456; May 16; Sp. p. 3491; Gaz. vol. 166; p. 628.
Hammer, Drop-. A. Koch. No. 994,936; June 13; Sp. p. 1863; Gaz. vol. 167; p. 327.
Hammer, Electric. R. S. Smith. No. 983,943; Feb. 14; Sp. p. 1499; Gaz. vol. 163; p. 264.
Hammer, Electric. H. F. Whalton. No. 984,984; Feb. 21; Sp. p. 3701; Gaz. vol. 163; p. 654.
Hammer, Electric. H. F. Whalton. No. 996,439; June 27; Sp. p. 5172; Gaz. vol. 167; p. 906.
Hammer, Electric. H. F. Whalton. No. 996,440; June 27; Sp. p. 5174; Gaz. vol. 167; p. 906.
Hammer, Foot-power. A. Walle. No. 995,742; June 20; Sp. p. 3599; Gaz. vol. 167; p. 631.
Hammer, Granite-surfacing. T. O. Snyder. No. 987,502; Mar. 21; Sp. p. 3673; Gaz. vol. 164; p. 655.
Hammer lifting-board, Drop-. C. J. Dalley. No. 1,002,231; Sept. 5; Sp. p. 86; Gaz. vol. 170; p. 10.
Hammer, Magazine-. R. G. Durst and G. P. Nabors. No. 983,221; Jan. 31; Sp. p. 6646; Gaz. vol. 162; p. 1156.
Hammer, Peen-. C. J. Thim. No. 983,325; Feb. 7; Sp. p. 145; Gaz. vol. 163; p. 26.
Hammer, Pile-. M. Schalscha. No. 1,005,889; Oct. 17; Sp. p. 2894; Gaz. vol. 171; p. 525.
Hammer, Pneumatic. A. H. Taylor. No. 981,899; Jan. 17; Sp. p. 3847; Gaz. vol. 162; p. 648.
Hammer, Pneumatic. C. B. French. No. 986,160; Mar. 7; Sp. p. 843; Gaz. vol. 164; p. 136.
Hammer, Pneumatic. S. Oldham. No. 996,880; July 4; Sp. p. 579; Gaz. vol. 168; p. 96.
Hammer, Pneumatic. H. Schumacher. No. 996,889; July 4; Sp. p. 597; Gaz. vol. 168; p. 98.
Hammer, Pneumatic. G. L. Badger. No. 998,226; July 18; Sp. p. 3522; Gaz. vol. 168; p. 634.
Hammer, Pneumatic. C. F. Duval and H. McDermott. No. 998,477; July 18; Sp. p. 4076; Gaz. vol. 168; p. 723.
Hammer, Pneumatic. R. A. Norling. No. 998,919; July 25; Sp. p. 5078; Gaz. vol. 168; p. 911.
Hammer, Pneumatic. M. A. Yeakley. No. 1,000,568; Aug. 15; Sp. p. 2908; Gaz. vol. 169; p. 534.
Hammer, Pneumatic. R. A. Norling. No. 1,001,297; Aug. 22; Sp. p. 4508; Gaz. vol. 169; p. 818.
Hammer, Pneumatic. R. A. Norling. No. 1,001,298; Aug. 22; Sp. p. 4511; Gaz. vol. 169; p. 818.
Hammer, Pneumatic. R. T. Scott. No. 1,003,154; Sept. 12; Sp. p. 2127; Gaz. vol. 170; p. 367.
Hammer, Pneumatic. V. E. Lane. No. 1,007,295; Oct. 31; Sp. p. 6040; Gaz. vol. 171; p. 1102.
Hammer, Pneumatic. E. C. Meissner. No. 1,007,476; Oct. 31; Sp. p. 6414; Gaz. vol. 171; p. 1165.
Hammer, Power-. G. D. Roberts. No. 989,051; Apr. 11; Sp. p. 1595; Gaz. vol. 165; p. 280.
Hammer, Power-. S. A. Thornburg. No. 1,007,159; Oct. 31; Sp. p. 5754; Gaz. vol. 171; p. 1053.
Hammer, Spring-. J. H. Phillips. No. 1,006,873; Oct. 24; Sp. p. 5112; Gaz. vol. 171; p. 901.
Hammer, Steam-. F. E. Lane and A. C. Creter. No. 999,662; Aug. 1; Sp. p. 915; Gaz. vol. 169; p. 160.
Hammer, Tilt-. H. Averdung. No. 996,194; June 27; Sp. p. 4611; Gaz. vol. 167; p. 822.
Hammer-tools, Rotation device for fluid-pressure-operated. A. H. Taylor. No. 998,864; July 25; Sp. p. 4958; Gaz. vol. 168; p. 891.
Hammer-tools, Rotation device for fluid-pressure-operated. A. H. Taylor. No. 998,932; July 25; Sp. p. 5106; Gaz. vol. 168; p. 916.
Hammers, Attachment for power-operated. C. W. Gilman and A. L. Welch. No. 1,008,026; Nov. 7; Sp. p. 821; Gaz. vol. 172; p. 130.
Hammers, Cushioning attachment for power-. C. L. Bockus and R. G. Hausdorfer. No. 1,000,769; Aug. 15; Sp. p. 3359; Gaz. vol. 169; p. 604.
Hammers, Throttle control for fluid-operated. J. F. Zwiker. No. 990,944; May 2; Sp. p. 250; Gaz. vol. 166; p. 43.
Hammock. J. D. and W. Palm. No. 980,829; Jan. 3; Sp. p. 1393; Gaz. vol. 162; p. 223.
Hammock. I. E. Palmer. No. 985,055; Feb. 21; Sp. p. 3849; Gaz. vol. 163; p. 679.
Hammock and cot, Combined. E. C. McCredy. No. 989,383; Apr. 11; Sp. p. 2313; Gaz. vol. 165; p. 391.
Hammock and frame therefor, Adjustable couch-. I. E. Palmer. No. 1,008,614; Nov. 14; Sp. p. 2239; Gaz. vol. 172; p. 381.
Hammock-couch. H. L. Hohlfeld. No. 996,644; July 4; Sp. p. 105; Gaz. vol. 168; p. 19.
Hammock, Couch-. I. E. Palmer. (Reissue.) No. 13,282; Aug. 15; Sp. p. 3791; Gaz. vol. 169; p. 677.
Hammock, Couch-. A. Hoffman. No. 1,011,789; Dec. 12; Sp. p. 3130; Gaz. vol. 173; p. 522.
Hammock, Integral fulled-valance. I. E. Palmer. No. 996,029; June 20; Sp. p. 4202; Gaz. vol. 167; p. 730.
Hammock-support. A. A. Schimmel and M. Freedman. No. 991,803; May 9; Sp. p. 2085; Gaz. vol. 166; p. 374.
Hammock suspension means. I. E. Palmer. No. 996,028; June 20; Sp. p. 4200; Gaz. vol. 167; p. 730.
Hammock-swinging means. A. C. Schaefer. No. 1,003,208; Sept. 12; Sp. p. 2260; Gaz. vol. 170; p. 388.
Hammocks and the like, Support for. R. Fitzner and K. Bänsch. No. 986,375; Mar. 7; Sp. p. 1299; Gaz. vol. 164; p. 210.
Hammocks, Making fulled-valance. I. E. Palmer. No. 995,554; June 20; Sp. p. 3174; Gaz. vol. 167; p. 565.
Hand, Artificial. L. Aydt. No. 984,179; Feb. 14; Sp. p. 1999; Gaz. vol. 163; p. 343.
Hand, Artificial. J. M. Shackelford and T. Alexander. No. 1,004,482; Sept. 26; Sp. p. 5038; Gaz. vol. 170; p. 887.
Hand-bag for physicians and surgeons. H. D. Capitain. No. 1,009,047; Nov. 21; Sp. p. 3168; Gaz. vol. 172; p. 562.
Hand-bag, Lady's. L. M. Trask. No. 991,252; May 2; Sp. p. 906; Gaz. vol. 166; p. 153.
Hand-hole cover. E. J. O'Leary. No. 1,006,263; Oct. 17; Sp. p. 3738; Gaz. vol. 171; p. 657.
Hand-protector. G. Lake. No. 1,008,604; Nov. 14; Sp. p. 2215; Gaz. vol. 172; p. 377.
Hand-rail fastening. W. H. Stiver. No. 984,114; Feb. 14; Sp. p. 1871; Gaz. vol. 163; p. 321.
Hand-rest. J. Packewitz. No. 988,893; Apr. 4; Sp. p. 1265; Gaz. vol. 165; p. 202.
Hand-shears. H. J. Haegen. No. 989,703; Apr. 18; Sp. p. 3024; Gaz. vol. 165; p. 532.
Hand-shears. S. T. Shirt. No. 1,005,661; Oct. 10; Sp. p. 2409; Gaz. vol. 171; p. 414.
Hand-strap. J. S. Doyle. No. 989,237; Apr. 11; Sp. p. 1991; Gaz. vol. 165; p. 342.
Hand-wrench. L. Bosley. No. 1,004,353; Sept. 26; Sp. p. 4765; Gaz. vol. 170; p. 842.
Handcuff. F. Busch. No. 982,933; Jan. 31; Sp. p. 6055; Gaz. vol. 162; p. 1059.
Handcuff. F. B. Widmayer. No. 985,560; Feb. 28; Sp. p. 5011; Gaz. vol. 163; p. 887.
Handcuff and like lock. G. Caveney. No. 1,000,666; Aug. 15; Sp. p. 3140; Gaz. vol. 169; p. 569.

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Handle: *See* Adjustable handle; Bag-fastening handle; Brake-handle; Broom-handle; Brush-handle; Bucket-handle; Casket-handle; Cooking-utensil cover-handle; Cover-handle; Crank-handle; Cutlery-handle; Detachable handle; Drawer-handle; Drill-rod handle; Faucet-handle; File-handle; Fishing-rod handle; Fork-handle; Lever-handle; Lock and latch handle; Pen-handle; Plow-handle; Pot-cover handle; Razor-handle; Reversible handle; Sad-iron handle; Saw-handle; Shears and the like handle; Shovel-handle; Stamp-handle; Tea-kettle handle; Tool-handle; Umbrella-handle; Vehicle-door handle.
Handle. W. G. Bloor. No. 996,052; June 27; Sp. p. 4257; Gaz. vol. 167; p. 774.
Handle. B. Markowitz. No. 1,000,739; Aug. 15; Sp. p. 3285; Gaz. vol. 169; p. 594.
Handle. W. A. Page and A. R. Pritchard. No. 1,010,680; Dec. 5; Sp. p. 616; Gaz. vol. 173; p. 98.
Handle and combined locking member and retainer therefor. A. C. Selleck. No. 998,557; July 18; Sp. p. 4232; Gaz. vol. 168; p. 750.
Handle attachment. W. P. Patrick. No. 983,082; Jan. 31; Sp. p. 6386; Gaz. vol. 162; p. 1110.
Handle attachment for implement-holders. S. G. Wilson. No. 1,008,764; Nov. 14; Sp. p. 2569; Gaz. vol. 172; p. 432.
Handle-clamp. C. T. Wootten. No. 1,003,225; Sept. 12; Sp. p. 2296; Gaz. vol. 170; p. 394.
Handle-fastening. W. A. Bradley. No. 981,745; Jan. 17; Sp. p. 3495; Gaz. vol. 162; p. 592.
Handle for cocks, faucets, and valves. P. Mueller. No. 995,027; June 13; Sp. p. 2048; Gaz. vol. 167; p. 358.
Handle-holder, Adjustable. C. H. Ressler. No. 998,038; July 18; Sp. p. 3118; Gaz. vol. 168; p. 567.
Handle or bail. A. R. Pritchard. No. 981,878; Jan. 17; Sp. p. 3786; Gaz. vol. 162; p. 640.
Handling apparatus, Material-. C. A. Frayer. No. 1,000,166; Aug. 8; Sp. p. 2012; Gaz. vol. 169; p. 360.
Handling loose material, Apparatus for. R. A. Ogle. No. 997,000; July 4; Sp. p. 863; Gaz. vol. 168; p. 138.
Handsaw. J. Wood. No. 999,617; Aug. 1; Sp. p. 827; Gaz. vol. 169; p. 144.
Hanger: *See* Brake-hanger; Broom-hanger; Cable-hanger; Cable or conductor hanger; Cake-hanger; Car-door hanger; Coat-hanger; Conveyer-hanger; Corn-hanger; Crank-hanger; Curtain-hanger; Door-hanger; Eaves-trough hanger; Electric-drop-light hanger; Electrical-conductor hanger; Garment-hanger; Garment or merchandise hanger; Gate-hanger; Gutter and the like hanger; Joist-hanger; Lamp-hanger; License-plate hanger; Meat-hanger; Meter-hanger; Pail-hanger; Pedal crank-hanger; Picture-hanger; Pipe-hanger; Pocket-hanger; Sash-hanger; Screen-hanger; Screw-conveyer hanger; Shaft-hanger; Signal-cord hanger; Stovepipe-hanger; Suit-hanger; Trolley-wire hanger; Trousers-hanger; Trousers and garment hanger.
Hanger. I. T. Verdin. No. 987,776; Mar. 28; Sp. p. 4264; Gaz. vol. 164; p. 777.
Hanger. E. H. Gross. No. 994,511; June 6; Sp. p. 841; Gaz. vol. 167; p. 141.
Hanger. M. F. Salmini. No. 1,002,761; Sept. 5; Sp. p. 1290; Gaz. vol. 170; p. 194.
Hanger. O. F. Mann. No. 1,005,860; Oct. 17; Sp. p. 2826; Gaz. vol. 171; p. 514.
Hanger. P. G. and A. C. Forsberg. No. 1,012,833; Dec. 26; Sp. p. 5415; Gaz. vol. 173; p. 961.
Hanger-block. H. G. Carlson. No. 984,647; Feb. 21; Sp. p. 3041; Gaz. vol. 163; p. 538.
Hanger-support. G. I. Rockwood and H. G. Carlson. No. 989,808; Apr. 18; Sp. p. 3260; Gaz. vol. 165; p. 569.
Hardening and tempering apparatus. W. E. Nickerson. No. 991,012; May 2; Sp. p. 387; Gaz. vol. 166; p. 66.
Harmonica, Mouth-. M. Hohner. No. 1,009,903; Nov. 28; Sp. p. 4999; Gaz. vol. 172; p. 902.
Harmonica, Mouth-. M. Hohner. No. 1,009,904; Nov. 28; Sp. p. 4999; Gaz. vol. 172; p. 903.
Harness. G. R. Bair. No. 987,847; Mar. 28; Sp. p. 4408; Gaz. vol. 164; p. 802.
Harness. E. B. Hyde. No. 1,002,696; Sept. 5; Sp. p. 1135; Gaz. vol. 170; p. 172.
Harness and other articles, Decorated attachment for. S. B. Girdler. No. 1,002,384; Sept. 5; Sp. p. 472; Gaz. vol. 170; p. 67.
Harness attachment. D. L. and W. M. Kelso. No. 986,066; Mar. 7; Sp. p. 668; Gaz. vol. 164; p. 107.
Harness attachment. H. R. Isenhower. No. 998,775; July 25; Sp. p. 4762; Gaz. vol. 168; p. 860.
Harness attachment. W. M. Watkins. No. 999,280; Aug. 1; Sp. p. 165; Gaz. vol. 169; p. 31.
Harness attachment. C. Clark. No. 1,001,820; Aug. 29; Sp. p. 5596; Gaz. vol. 169; p. 1026.
Harness attachment. J. S. Stone. No. 1,003,381; Sept. 12; Sp. p. 2599; Gaz. vol. 170; p. 447.
Harness breast attachment. O. Brockman. No. 1,008,692; Nov. 14; Sp. p. 2407; Gaz. vol. 172; p. 407.
Harness-breast-strap support. F. W. Lindquist. No. 998,784; July 25; Sp. p. 4775; Gaz. vol. 168; p. 863.
Harness-fastener. T. J. Scarff. No. 996,283; June 27; Sp. p. 4802; Gaz. vol. 167; p. 851.
Harness hitching device. J. W. Warren. No. 980,716; Jan. 3; Sp. p. 1166; Gaz. vol. 162; p. 186.
Harness-hook. G. E. Rockdaschel. No. 1,010,958; Dec. 5; Sp. p. 1232; Gaz. vol. 173; p. 195.
Harness-machine beading attachment. J. A. Tenney. No. 999,416; Aug. 1; Sp. p. 443; Gaz. vol. 169; p. 78.
Harness-pad. H. Leibe. No. 1,006,960; Oct. 24; Sp. p. 5291; Gaz. vol. 171; p. 930.
Harness-releasing apparatus. A. Binnie and E. H. E. C. McCarthy. No. 987,213; Mar. 21; Sp. p. 3076; Gaz. vol. 164; p. 557.
Harness-supporting hook. J. Howard. No. 1,005,219; Oct. 10; Sp. p. 1385; Gaz. vol. 171; p. 255.
Harness-suspending device. H. C. Graybill. No. 987,980; Mar. 28; Sp. p. 4761; Gaz. vol. 164; p. 849.
Harness-treating apparatus. J. R. Moore. No. 999,242; Aug. 1; Sp. p. 98; Gaz. vol. 169; p. 18.
Harp. M. A. Clark. No. 1,005,157; Oct. 10; Sp. p. 1250; Gaz. vol. 171; p. 233.
Harp. M. A. Clark. No. 1,010,477; Dec. 5; Sp. p. 173; Gaz. vol. 173; p. 29.
Harp. E. O. Starke. No. 1,010,816; Dec. 5; Sp. p. 920; Gaz. vol. 173; p. 144.
Harpoon. N. Kromann. No. 1,002,709; Sept. 5; Sp. p. 1164; Gaz. vol. 170; p. 176.
Harrow. W. B. Mitchell. No. 981,455; Jan. 10; Sp. p. 2927; Gaz. vol. 162; p. 473.
Harrow. H. E. Kinney. No. 982,607; Jan. 24; Sp. p. 5345; Gaz. vol. 162; p. 921.
Harrow. J. C. Eubank. No. 983,035; Jan. 31; Sp. p. 6296; Gaz. vol. 162; p. 1094.
Harrow. H. Zum Walde. No. 983,331; Feb. 7; Sp. p. 162; Gaz. vol. 163; p. 28
Harrow. G. E. Walker. No. 983,523; Feb. 7; Sp. p. 565; Gaz. vol. 163; p. 90.
Harrow. B. Halvé. No. 983,894; Feb. 14; Sp. p. 1402; Gaz. vol. 163; p. 249.
Harrow. L. E. Waterman. No. 984,625; Feb. 21; Sp. p. 2996; Gaz. vol. 163; p. 531.
Harrow. O. P. Foote. No. 985,579; Feb. 28; Sp. p. 5058; Gaz. vol. 163; p. 893.
Harrow. R. W. Crossman. No. 985,980; Mar. 7; Sp. p. 488; Gaz. vol. 164; p. 78.
Harrow. E. L. Hawkins. No. 986,056; Mar. 7; Sp. p. 641; Gaz. vol. 164; p. 103.
Harrow. A. and R. E. Schley. No. 986,597; Mar. 14; Sp. p. 1788; Gaz. vol. 164; p. 316.
Harrow. A. E. Naylor and J. C. Y. Moore. No. 986,745; Mar. 14; Sp. p. 2089; Gaz. vol. 164; p. 366.
Harrow. H. M. Rhodes. No. 987,680; Mar. 21; Sp. p. 4053; Gaz. vol. 164; p. 717.
Harrow. L. J. Knight. No. 987,887; Mar. 28; Sp. p. 4517; Gaz. vol. 164; p. 816.
Harrow. F. I. Grove. No. 992,655: May 16; Sp. p. 3913; Gaz. vol. 166; p. 698.
Harrow. M. S. Madsen. No. 993,855: May 30; Sp. p. 6500; Gaz. vol. 166; p. 1171
Harrow. J. H. Anderson. No. 995,650; June 20; Sp. p. 3403; Gaz. vol. 167; p. 599.
Harrow. C. E. Forkner. No. 995,779; June 20; Sp. p. 3693; Gaz. vol. 167; p. 644.
Harrow. L. O. Ekrem. No. 998,481; July 18; Sp. p. 4088; Gaz. vol. 168; p. 724.
Harrow. J. H. Anderson. No. 998,826; July 25; Sp. p. 4859; Gaz. vol. 168; p. 878.
Harrow. J. A. Wolfe. No. 1,002,621; Sept. 5; Sp. p. 991; Gaz. vol. 170; p. 147.
Harrow. W. W. Pittman. No. 1,003,498; Sept. 19; Sp. p. 2847; Gaz. vol. 170; p. 521.
Harrow. J. S. Jones. No. 1,006,482; Oct. 24; Sp. p. 4245; Gaz. vol. 171; p. 762.
Harrow. J. H. Glassburn and W. C. Evans. No. 1,006,844; Oct. 24; Sp. p. 5052; Gaz. vol. 171; p. 891.
Harrow. C. A. Monroe and W. E. Robinson. No. 1,006,972; Oct. 24; Sp. p. 5314; Gaz. vol. 171; p. 934.
Harrow. A. E. Naylor and J. C. Y. Moore. No. 1,007,304; Oct. 31; Sp. p. 6053; Gaz. vol. 171; p. 1104.
Harrow. J. P. Harper. No. 1,008,142; Nov. 7; Sp. p. 1058; Gaz. vol. 172; p. 172.
Harrow. E. M. Heylman. No. 1,008,147; Nov. 7; Sp. p. 1065; Gaz. vol. 172; p. 174.
Harrow. G. Humberger. No. 1,009,667; Nov. 21; Sp. p. 4507; Gaz. vol. 172; p. 776.
Harrow. J. W. Kimmons. No. 1,012,086; Dec. 19; Sp. p. 3808; Gaz. vol. 173; p. 660.
Harrow and cultivator, Combined. J. S. Marsh. No. 994,766; June 13; Sp. p. 1470; Gaz. vol. 167; p. 270.
Harrow and cultivator, Combined riding. H. Smith No. 984,042; Feb. 14; Sp. p. 1725; Gaz. vol. 163; p. 297.
Harrow and cultivator, Convertible. H. Olson and C. M. Johnson. No. 984,291; Feb. 14; Sp. p. 2267; Gaz. vol. 163; p. 383.
Harrow and planter, Combined. G. H. Metcalf. No. 990,061; Apr. 18; Sp. p. 3784; Gaz. vol. 165; p. 655.
Harrow and seeder, Combined. F. A. Rodgers. No. 989,725; Apr. 18; Sp. p. 3066; Gaz. vol. 165; p. 540.
Harrow attachment. G. E. Wodraska. No. 1,009,817; Nov. 28; Sp. p. 4838; Gaz. vol. 172; p. 875.
Harrow attachment, Disk-. F. Bedford. No. 990,216; Apr. 25; Sp. p. 4120; Gaz. vol. 165; p. 738.

Harrow attachment, Disk-. P. H. and J. Noonan. No. 1,006,589; Oct. 24; Sp. p. 4503; Gaz. vol. 171; p. 803.
Harrow-cart. D. B. Frisby. No. 991,966; May 9; Sp. p. 2414; Gaz. vol. 166; p. 429.
Harrow-cart. J. B. Bunten. No. 996,747; July 4; Sp. p. 293; Gaz. vol. 168; p. 51.
Harrow cleaner, Disk-. C. E. Adams. No. 989,748; Apr. 18; Sp. p. 3120; Gaz. vol. 165; p. 548.
Harrow connection. W. M. Tiernan and H. M. Schreiber. No. 987,838; Mar. 28; Sp. p. 4394; Gaz. vol. 164; p. 799.
Harrow cultivator attachment. C. P. Stevens. No. 1,004,307; Sept. 26; Sp. p. 4675; Gaz. vol. 170; p. 827.
Harrow, Disk. H. P. Corne. No. 989,338; Apr. 11; Sp. p. 2224; Gaz. vol. 165; p. 377.
Harrow, Disk. J. R. Neff. No. 994,650; June 6; Sp. p. 1155; Gaz. vol. 167; p. 189.
Harrow, Disk. A. H. Michel. No. 997,312; July 11; Sp. p. 1514; Gaz. vol. 168; p. 275.
Harrow, Disk. C. S. Sharp. No. 1,007,496; Oct. 31; Sp. p. 6475; Gaz. vol. 171; p. 1171.
Harrow, Disk. C. S. Sharp. No. 1,007,982; Nov. 7; Sp. p. 738; Gaz. vol. 172; p. 116.
Harrow, Disk. G. Smith. No. 1,011,385; Dec. 12; Sp. p. 2218; Gaz. vol. 173; p. 378.
Harrow-disk sharpener. E. E. Combs. No. 1,003,340; Sept. 12; Sp. p. 2530; Gaz. vol. 170; p. 436.
Harrow draft attachment. J. H. Sherard. No. 1,011,891; Dec. 12; Sp. p. 3347; Gaz. vol. 173; p. 555.
Harrow draft-equalizer. W. F. Keller. No. 987,996; Mar. 28; Sp. p. 4791; Gaz. vol. 164; p. 854.
Harrow, Drag-. J. Hadford. No. 1,002,681; Sept. 5; Sp. p. 1105; Gaz. vol. 170; p. 166.
Harrow-drag. W. B. Mitchell. (Reissue.) No. 13,340; Dec. 19; Sp. p. 4822; Gaz. vol. 173; p. 827.
Harrow, Revolving. J. Porteous. No. 982,091; Jan. 17; Sp. p. 4282; Gaz. vol. 162; p. 713.
Harrow, Riding-. J. B. Hoober. No. 988,193; Mar. 28; Sp. p. 5178; Gaz. vol. 164; p. 918.
Harrow, Riding-. J. R. Howell. No. 1,008,915; Nov. 14; Sp. p. 2864; Gaz. vol. 172; p. 481.
Harrow riding attachment. R. R. Cyrus. No. 981,982; Jan. 17; Sp. p. 4058; Gaz. vol. 162; p. 677.
Harrow riding attachment. A. Krueger and B. Kramlich. No. 1,011,819; Dec. 12; Sp. p. 3185; Gaz. vol. 173; p. 532.
Harrow, Rotary. C. B. McGee and W. A. Williams. No. 987,007; Mar. 14; Sp. p. 2628; Gaz. vol. 164; p. 454.
Harrow, Rotary. T. Richards. No. 993,197; May 23; Sp. p. 5073; Gaz. vol. 166; p. 915.
Harrow, Rotary. J. W. Elliott and N. E. McQuitty. No. 1,000,387; Aug. 15; Sp. p. 2503; Gaz. vol. 169; p. 468.
Harrow, Rotary. J. W. Carter. No. 1,012,810; Dec. 26; Sp. p. 5355; Gaz. vol. 173; p. 953.
Harrow-tooth. H. T. Goodell. No. 985,582; Feb. 28; Sp. p. 5063; Gaz. vol. 163; p. 894.
Harrow-tooth. J. Whipps. No. 985,871; Mar. 7; Sp. p. 232; Gaz. vol. 164; p. 38.
Harrow-tooth. A. E. Quickel. No. 1,007,604; Oct. 31; Sp. p. 6713; Gaz. vol. 171; p. 1208.
Harrow-tooth clip. G. F. Danielson. No. 992,941; May 23; Sp. p. 4536; Gaz. vol. 166; p. 830.
Harrow-weeder. P. B. Bateman. No. 987,535; Mar. 21; Sp. p. 3723; Gaz. vol. 164; p. 666.
Harrows, Boxing for disk. H. C. Hagemeier. No. 985,588; Feb. 28; Sp. p. 5074; Gaz. vol. 163; p. 897.
Harvester attachment. B. Karst. No. 998,526; July 18; Sp. p. 4178; Gaz. vol. 168; p. 740.
Harvester attachment. J. Pfeifle. No. 1,000,550; Aug. 15; Sp. p. 2870; Gaz. vol. 169; p. 526.
Harvester attachment, Corn-. W. H. Bean. No. 998,150; July 18; Sp. p. 3362; Gaz. vol. 168; p. 606.
Harvester attachment, Corn-. E. B. Arnold. No. 1,000,976; Aug. 22; Sp. p. 3807; Gaz. vol. 169; p. 710.
Harvester, Bean-. J. R. Fowler and M. J. Ufford. No. 991,293; May 2; Sp. p. 996; Gaz. vol. 166; p. 168.
Harvester, Beet-. J. C. Gerken. No. 983,702; Feb. 7; Sp. p. 962; Gaz. vol. 163; p. 152.
Harvester, Beet-. E. Lang. No. 984,572; Feb. 21; Sp. p. 2871; Gaz. vol. 163; p. 511.
Harvester, Beet-. E. E. Shaw. (Reissue.) No. 13,215; Mar. 7; Sp. p. 1410; Gaz. vol. 164; p. 227.
Harvester, Beet-. G. C. Gettman. No. 990,726; Apr. 25; Sp. p. 5304; Gaz. vol. 165; p. 915.
Harvester, Beet-. M Goodfellow. No. 991,149; May 2; Sp. p. 683; Gaz. vol. 166; p. 116.
Harvester, Beet-. L. I. Minato. No. 993,704; May 30; Sp. p. 6195; Gaz. vol. 166; p. 1120.
Harvester, Beet-. W K. Lewis. No. 998,296; July 18; Sp. p. 3706; Gaz. vol. 168; p. 661.
Harvester, Beet-. A. Crume. No. 1,001,360; Aug. 22; Sp. p. 4664; Gaz. vol. 169; p. 841.
Harvester, Beet-. W. Stinson. No. 1,004,156; Sept. 26; Sp. p. 4390; Gaz. vol. 170; p. 777.
Harvester, Cane-. A. Domingues. No. 982,129; Jan. 17; Sp. p. 4348; Gaz. vol. 162; p. 726.
Harvester, Cane-. J. E. Baster. No. 995,994; June 20; Sp. p. 4129; Gaz. vol. 167; p. 719.
Harvester, Corn-. H. E. Purdy and E. W. Miller. No. 981,223; Jan. 10; Sp. p. 2424; Gaz. vol. 162; p. 393.
Harvester, Corn-. W. E. Purdy and E. W. Miller. No. 981,224; Jan. 10; Sp. p. 2426; Gaz. vol. 162; p. 393.
Harvester, Corn-. I. Fetters. No. 982,582; Jan. 24; Sp. p. 5297; Gaz. vol. 162; p. 913.
Harvester, Corn-. J. C. Corderman. No. 982,798; Jan. 31; Sp. p. 5752; Gaz. vol. 162; p. 1014.
Harvester, Corn-. W. H. Morris. No. 986,198; Mar. 7; Sp. p. 918; Gaz. vol. 164; p. 149.
Harvester, Corn-. R. P. Smith. No. 986,233; Mar. 7; Sp. p. 999; Gaz. vol. 64; p. 160.
Harvester, Corn-. T. G. Kelso. No. 995,258; June 13; Sp. p. 2510; Gaz. vol. 167; p. 434.
Harvester, Corn-. H. B. Wyckoff. No. 995,836; June 20; Sp. p. 3816; Gaz. vol. 167; p. 664.
Harvester, Corn-. T. J. Love. No. 1,006,243; Oct. 17; Sp. p. 3699; Gaz. vol. 171; p. 650.
Harvester, Cotton-. H. B. Byron. No. 980,596; Jan. 3; Sp. p. 905; Gaz. vol. 162; p. 146.
Harvester, Cotton-. T. E. Willis and J. W. Rodgers. No. 1,006,614; Oct. 24; Sp. p. 4550; Gaz. vol. 171; p. 811.
Harvester, Cotton-. G. W. Tanner. No. 1,007,504; Oct. 31; Sp. p. 6491; Gaz. vol. 171; p. 1174.
Harvester, Cotton-. H. E. Bullock and R. C. Scherling. No. 1,009,381; Nov. 21; Sp. p. 3932; Gaz. vol. 172; p. 681.
Harvester, crusher, and huller, Cotton. O. C. Houghton. No. 985,036; Feb. 21; Sp. p. 3806; Gaz. vol. 163; p. 672.
Harvester for beans, peas, and the like. S. Roosa. No. 1,001,168; Aug. 22; Sp. p. 4235; Gaz. vol. 169; p. 775.
Harvester, Grain-. H. D. Schmidt. No. 980,347; Jan. 3; Sp. p. 333; Gaz. vol. 162; p. 60.
Harvester, Grain-. C. A. A. Rand. No. 990,901; May 2; Sp. p. 153; Gaz. vol. 166; p. 29.
Harvester, Grain-. J. A. Sharp. No. 1,002,209; Aug. 29; Sp. p. 6407; Gaz. vol. 169; p. 1155.
Harvester grain-divider. H. J. Podlešák. No. 1,008,283; Nov. 7; Sp. p. 1378; Gaz. vol. 172; p. 224.
Harvester loader, Corn-. F. A. R., H. C., and O. L. Fiebach. No. 985,992; Mar. 7; Sp. p. 518; Gaz. vol. 164; p. 82.
Harvester motor attachment. J. A. Sharp. No. 1,007,246; Oct. 31; Sp. p. 5942; Gaz. vol. 171; p. 1084.
Harvester, Onion-. T. De Young, Jr. No. 992,862; May 23; Sp. p. 4362; Gaz. vol. 166; p. 801.
Harvester platform, Corn-. T. O. Thurston. No. 1,011,672; Dec. 12; Sp. p. 2891; Gaz. vol. 173; p. 483.
Harvester, Potato-. C. Meyer. No. 1,000,186; Aug. 8; Sp. p. 2062; Gaz. vol. 169; p. 367.
Harvester-reel. K. Van Kooy. No. 991,213; May 2; Sp. p. 826; Gaz. vol. 166; p. 140.
Harvester-reel. J. Boda. No. 1,008,778; Nov. 14; Sp. p. 2602; Gaz. vol. 172; p. 437.
Harvester-reel attachment. F. O. Kullander. No. 982,072; Jan. 17; Sp. p. 4246; Gaz. vol. 162; p. 707.
Harvester reel, Corn-. J. H. Umbanhowar. No. 1,012,938; Dec. 26; Sp. p. 5673; Gaz. vol. 173; p. 996.
Harvester-reel support. H. J. Podlešák. No. 1,000,552; Aug. 15; Sp. p. 2872; Gaz. vol. 169; p. 527.
Harvester-reel support. J. A. Stone. No. 1,004,930; Oct. 3; Sp. p. 829; Gaz. vol. 171; p. 134.
Harvester sacking and assorting attachment, Potato-. G. A. Akers. No. 998,445; July 18; Sp. p. 4015; Gaz. vol. 168; p. 712.
Harvester-seat. J. W. Pridmore. No. 1,004,589; Oct. 3; Sp. p. 84; Gaz. vol. 171; p. 16.
Harvester-steering mechanism, Beet-. F. Briggs. No. 1,002,895; Sept. 12; Sp. p. 1609; Gaz. vol. 170; p. 279.
Harvester, Straw-binding. H. A. Hancock. No. 997,552; July 11; Sp. p. 1973; Gaz. vol. 168; p. 353.
Harvester, Stripper-. C. A. A. Rand. No. 996,794; July 4; Sp. p. 388; Gaz. vol. 168; p. 66.
Harvester, Sugar-cane. J. T. Needham. No. 985,440; Feb. 28; Sp. p. 4743; Gaz. vol. 163; p. 844.
Harvester topping device. L. Erhardt. No. 1,009,058; Nov. 21; Sp. p. 3197; Gaz. vol. 172; p. 566.
Harvesters, Beet-topper for beet-. O. Knoerzer. No. 998,851; July 25; Sp. p. 4929; Gaz. vol. 168; p. 886.
Harvesters, Snapping-rolls for corn-. J. A. Stone. No. 992,287; May 16; Sp. p. 3126; Gaz. vol. 166; p. 569.
Harvesters, Spring-guard attachment for corn-. J. H. Breen. No. 1,001,577; Aug. 22; Sp. p. 5061; Gaz. vol. 169; p. 912.
Harvesters, Stalk-elevator for corn-. I. L. Dawson. No. 985,573; Feb. 28; Sp. p. 5038; Gaz. vol. 163; p. 891.
Harvesters, Tandem draft connection for. A. L. Johnson and H. B. Sperry. No. 997,917; July 11; Sp. p. 2823; Gaz. vol. 168; p. 483.
Harvesters, Tandem draft connection for. P. S. Therens. No. 1,007,254; Oct. 31; Sp. p. 5960; Gaz. vol. 171; p. 1087.
Harvesting and boll-gathering machine, Cotton-. O. C. Houghton. No. 986,059; Mar. 7; Sp. p. 644; Gaz. vol. 164; p. 104.
Harvesting, binding, and shocking device, Corn. N. Wilson. No. 981,048; Jan. 10; Sp. p. 1998; Gaz. vol. 162; p. 330.
Harvesting-machine. J. A. Beckett. No. 1,004,843; Oct. 3; Sp. p. 644; Gaz. vol. 171; p. 105.
Harvesting-machine caster-wheel. J. I. Moore. No. 980,817; Jan. 3; Sp. p. 1363; Gaz. vol. 162; p. 219.
Harvesting machine, Corn-. H. F. Engelland. No. 981,400; Jan. 10; Sp. p. 2806; Gaz. vol. 162; p. 454.

Alphabetical list of inventions—Continued.

Harvesting machine, Corn-. F. King. No. 987,378; Mar. 21; Sp. p. 3418; Gaz. vol. 164; p. 613.
Harvesting machine, Corn-. H. Wise. No. 993,010; May 23; Sp. p. 4680; Gaz. vol. 166; p. 853.
Harvesting-machine cutter-bar. W. R. Gourley. No. 997,495; July 11; Sp. p. 1854; Gaz. vol. 168; p. 335.
Harvesting-machine knotter. L. Anderson. No. 984,639; Feb. 21; Sp. p. 3022; Gaz. vol. 163; p. 535.
Harvesting machine, Onion-. F. Olson. No. 989,279; Apr. 11; Sp. p. 2086; Gaz. vol. 165; p. 356.
Harvesting machine, Potato-. O. A. Gilmore. No. 988,871; Apr. 4; Sp. p. 1222; Gaz. vol. 165; p. 195.
Hasp. A. Voight. No. 981,825; Jan. 17; Sp. p. 3687; Gaz. vol. 162; p. 622.
Hasp. G. W. Aycock. No. 984,733; Feb. 21; Sp. p. 3225; Gaz. vol. 163; p. 570.
Hasp-fastener. L. Kehlet. No. 992,565; May 16; Sp. p. 3737; Gaz. vol. 166; p. 668.
Hasp-fastener. A. H. Browne. No. 1,007,639; Oct. 31; Sp. p. 6787; Gaz. vol. 171; p. 1220.
Hasp-lock. Y. Q. Caldwell. No. 1,003,332; Sept. 12; Sp. p. 2512; Gaz. vol. 170; p. 432.
Hat. D. Stern. No. 995,990; June 20; Sp. p. 4122; Gaz. vol. 167; p. 717.
Hat. H. Bendel. No. 1,005,682; Oct. 10; Sp. p. 2455; Gaz. vol. 171; p. 421.
Hat. J. M. Cleary. No. 1,009,281; Nov. 21; Sp. p. 3707; Gaz. vol. 172; p. 645.
Hat-anchor, Collapsible. M. D. Fisher. No. 1,001,831; Aug. 29; Sp. p. 5626; Gaz. vol. 169; p. 1031.
Hat and cap band. F. A. Kopp. No. 993,257; May 23; Sp. p. 5199; Gaz. vol. 166; p. 933.
Hat and receptacle, Combined. F. Saunders. No. 999,404; Aug. 1; Sp. p. 419; Gaz. vol. 169; p. 74.
Hat attachment. G. W. Merritt. No. 1,000,426; Aug. 15; Sp. p. 2592; Gaz. vol. 169; p. 482.
Hat-band. I. A. Cammett. No. 1,012,244; Dec. 19; Sp. p. 4161; Gaz. vol. 173; p. 714.
Hat-block. V. M. Strzempkoski. No. 1,006,145; Oct. 17; Sp. p. 3466; Gaz. vol. 171; p. 615.
Hat blocking and shaping machine. G. Atherton. No. 993,635; May 30; Sp. p. 6020; Gaz. vol. 166; p. 1094.
Hat-bodies jointly, Napping. F. J. Muhlfeld. No. 1,001,296; Aug. 22; Sp. p. 4505; Gaz. vol. 169; p. 818.
Hat-body-clipping machine. E. W. Barnum. No. 982,926; Jan. 31; Sp. p. 6037; Gaz. vol. 162; p. 1057.
Hat-brim mold. H. Bruckshaw. No. 993,344; May 30; Sp. p. 5388; Gaz. vol. 166; p. 996.
Hat-brim-wiring machine. A. Haworth. No. 1,004,783; Oct. 3; Sp. p. 506; Gaz. vol. 171; p. 84.
Hat-cleaning-pad holder. H. J. P. Rottger, Jr. No. 982,534; Jan. 24; Sp. p. 5209; Gaz. vol. 162; p. 898.
Hat-clipping device. T. J. Sayre. No. 1,003,810; Sept. 19; Sp. p. 3528; Gaz. vol. 170; p. 628.
Hat-conformator. K. Wickersheim. No. 1,011,297; Dec. 12; Sp. p. 2030; Gaz. vol. 173; p. 349.
Hat-creasing form or block, Adjustable. M. F. Thau. No. 998,430; July 18; Sp. p. 3989; Gaz. vol. 168; p. 707.
Hat-fastener. L. Forester. No. 982,264; Jan. 24; Sp. p. 4621; Gaz. vol. 162; p. 802.
Hat-fastener. A. J. Warner. No. 983,524; Feb. 7; Sp. p. 566; Gaz. vol. 163; p. 91.
Hat-fastener. N. H. Hassel. No. 987,297; Mar. 21; Sp. p. 3258; Gaz. vol. 164; p. 587.
Hat-fastener. E. O. Schley. No. 989,299; Apr. 11; Sp. p. 2132; Gaz. vol. 165; p. 364.
Hat-fastener. G. V. Domarus, Jr. No. 990,427; Apr. 25; Sp. p. 4637; Gaz. vol. 165; p. 815.
Hat-fastener. E. M. Wilson. No. 1,011,394; Dec. 12; Sp. p. 2236; Gaz. vol. 173; p. 382.
Hat-fastener, Lady's. E. Scott. No. 1,010,525; Dec. 5; Sp. p. 279; Gaz. vol. 173; p. 44.
Hat-frame-fashioning device. F. O'Brien. No. 995,081; June 13; Sp. p. 2175; Gaz. vol. 167; p. 377.
Hat-frame-making machine. H. Silbert and S. Wachtel. No. 1,011,381; Dec. 12; Sp. p. 2209; Gaz. vol. 173; p. 377.
Hat-frame-making machine. H. Silbert and S. Wachtel. No. 1,011,382; Dec. 12; Sp. p. 2212; Gaz. vol. 173; p. 377.
Hat-frame-making machine, Wire-. J. A. Schwartz. No. 989,303; Apr. 11; Sp. p. 2140; Gaz. vol. 165; p. 365.
Hat-guard. A. Wallace, Jr. No. 998,559; July 18; Sp. p. 4236; Gaz. vol. 168; p. 751.
Hat-holder. E. J. Morin. No. 1,003,287; Sept. 12; Sp. p. 2424; Gaz. vol. 170; p. 417.
Hat-holding device. C. Froehlich. No. 1,003,731; Sept. 19; Sp. p. 3370; Gaz. vol. 170; p. 602.
Hat-mark. E. C. Boggs. No. 1,004,977; Oct. 3; Sp. p. 908; Gaz. vol. 171; p. 150.
Hat-marker. H. C. Walker. No. 1,006,320; Oct. 17; Sp. p. 3868; Gaz. vol. 171; p. 676.
Hat-pin. E. C. Geneux. No. 982,132; Jan. 17; Sp. p. 4353; Gaz. vol. 162; p. 727.
Hat-pin. E. E. Westfall. No. 987,519; Mar. 21; Sp. p. 3701; Gaz. vol. 164; p. 661.
Hat-pin. J. Cohn. No. 987,795; Mar. 28; Sp. p. 4302; Gaz. vol. 164; p. 784.
Hat-pin. M. L. Bagley. No. 989,223; Apr. 11; Sp. p. 1961; Gaz. vol. 165; p. 338.
Hat-pin. M. T. Confrey. No. 996,003; June 20; Sp. p. 4145; Gaz. vol. 167; p. 721.
Hat-pin. A. J. Pollitt. No. 998,799; July 25; Sp. p. 4803; Gaz. vol. 168; p. 868.
Hat-pin. A. A. Roberts. No. 1,002,867; Sept. 12; Sp. p. 1540; Gaz. vol. 170; p. 268.
Hat-pin. A. Domenico and A. Benedetti. No. 1,003,715; Sept. 19; Sp. p. 3339; Gaz. vol. 170; p. 597.
Hat-pin. L. Pizzutiello. No. 1,009,339; Nov. 21; Sp. p. 3823; Gaz. vol. 172; p. 666.
Hat-pin. P. Rissmann. No. 1,012,100; Dec. 19; Sp. p. 3844; Gaz. vol. 173; p. 663.
Hat-pin construction. C. B. Pershall. No. 996,791; July 4; Sp. p. 384; Gaz. vol. 168; p. 65.
Hat-pin fastener. R. L. Raynor. No. 984,298; Feb. 14; Sp. p. 2278; Gaz. vol. 163; p. 386.
Hat-pin fastener. C. Hierl. No. 986,824; Mar. 14; Sp. p. 2270; Gaz. vol. 164; p. 393.
Hat-pin fastener and point protector. A. Arendarczyk. No. 1,004,963; Oct. 3; Sp. p. 886; Gaz. vol. 171; p. 146.
Hat-pin guard. M. A. L. Barrelle. No. 992,934; May 23; Sp. p. 4523; Gaz. vol. 166; p. 827.
Hat-pin guard. C. L. Mitchell. No. 1,001,210; Aug. 22; Sp. p. 4336; Gaz. vol. 169; p. 789.
Hat-pin guard. C. D. Reeves. No. 1,002,542; Sept. 5; Sp. p. 809; Gaz. vol. 170; p. 118.
Hat-pin guard. C. H. May. No. 1,006,250; Oct. 17; Sp. p. 3713; Gaz. vol. 171; p. 653.
Hat-pin guard. W. J. Morrison. No. 1,012,412; Dec. 19; Sp. p. 4499; Gaz. vol. 173; p. 771.
Hat-pin guard and holder. W. Yinger. No. 1,009,124; Nov. 21; Sp. p. 3330; Gaz. vol. 172; p. 589.
Hat-pin guard or protector. W. R. and T. D. Thomlinson. No. 986,874; Mar. 14; Sp. p. 2376; Gaz. vol. 164; p. 411.
Hat-pin holder. W. A. Collins. No. 987,699; Mar. 28; Sp. p. 4096; Gaz. vol. 164; p. 751.
Hat-pin holder. R. W. Taylor. No. 996,682; July 4; Sp. p. 169; Gaz. vol. 168; p. 30.
Hat-pin, Lady's. M. Conigrave. No. 985,976; Mar. 7; Sp. p. 475; Gaz. vol. 164; p. 76.
Hat-pin-point protector. P. Lauermann. No. 989,372; Apr. 11; Sp. p. 2291; Gaz. vol. 165; p. 388.
Hat-pin-point protector. A. A. Worzen. No. 999,079; July 25; Sp. p. 5441; Gaz. vol. 168; p. 968.
Hat-pin-point protector. J. Kerchner. No. 999,654; Aug. 1; Sp. p. 901; Gaz. vol. 169; p. 157.
Hat-pin-point protector. G. G. Hay. No. 1,001,590; Aug. 22; Sp. p. 5087; Gaz. vol. 169; p. 916.
Hat-pin-point protector. A. Bodor. No. 1,002,632; Sept. 5; Sp. p. 1011; Gaz. vol. 170; p. 150.
Hat-pin-point protector. K. Szentivanyi No. 1,010,978; Dec. 5; Sp. p. 1274; Gaz. vol. 173; p. 202.
Hat-pin protector. J. H. Mateer. No. 986,927; Mar. 14; Sp. p. 2479; Gaz. vol. 164; p. 429.
Hat-pin protector. W. T. Schroeder. No. 988,738; Apr. 4; Sp. p. 969; Gaz. vol. 165; p. 153.
Hat-pin protector. D. Ferguson. No. 995,241; June 13; Sp. p. 2471; Gaz. vol. 167; p. 428.
Hat-pin protector. D. M. Watkins. No. 995,744; June 20; Sp. p. 3601; Gaz. vol. 167; p. 632.
Hat-pin protector. C. A. Sentz. No. 1,004,823; Oct. 3; Sp. p. 585; Gaz. vol. 171; p. 96.
Hat-pin protector. G. W. Burnett. No. 1,005,411; Oct. 10; Sp. p. 1827; Gaz. vol. 171; p. 325.
Hat-pin protector. S. Toomey. No. 1,010,532; Dec. 5; Sp. p. 295; Gaz. vol. 173; p. 47.
Hat-pin protector and fastener. J. W. Barnard. No. 987,533; Mar. 21; Sp. p. 3721; Gaz. vol. 164; p. 665.
Hat-pin, Safety. H. Jones. No. 982,727; Jan. 24; Sp. p. 5586; Gaz. vol. 162; p. 961.
Hat-pin, Safety. G. C. Johnson. No. 997,451; July 11; Sp. p. 1767; Gaz. vol. 168; p. 321.
Hat-pin, Safety. C. T. Pally. No. 1,004,898; Oct. 3; Sp. p. 776; Gaz. vol. 171; p. 124.
Hat-pin safety attachment. C. L. Schmidt. No. 986,225; Mar. 7; Sp. p. 968; Gaz. vol. 164; p. 158.
Hat-pin shield. J. Leu. No. 999,171; July 25; Sp. p. 5598; Gaz. vol. 168; p. 996.
Hat-pin shield. R. N. Wellke. No. 1,007,166; Oct. 31; Sp. p. 5770; Gaz. vol. 171; p. 1055.
Hat-pins and the like, Protector for. A. Kemish. No. 982,829; Jan. 31; Sp. p. 5823; Gaz. vol. 162; p. 1024.
Hat-press. J. F. Brennan. No. 984,794; Feb. 21; Sp. p. 3353; Gaz. vol. 163; p. 592.
Hat-press, Automatic hydraulic. J. Marshall. No. 994,858; June 13; Sp. p. 1680; Gaz. vol. 167; p. 301.
Hat-press, Power. C. A. Bingaman. No. 985,773; Mar. 7; Sp. p. 10; Gaz. vol. 164; p. 4.
Hat-punching machine. G. W. Hindinger. No. 996,338; June 27; Sp. p. 4944; Gaz. vol. 167; p. 870.
Hat-retainer. H. B. Carty. No. 997,115; July 4; Sp. p. 1092; Gaz. vol. 168; p. 177.
Hat-rim polisher. A. M. Pesses. No. 994,086; May 30; Sp. p. 6961; Gaz. vol. 166; p. 1248.
Hat-shaping machine. E. T. Pollard. No. 988,592; Apr. 4; Sp. p. 657; Gaz. vol. 165; p. 105.
Hat-stay. J. M. Bower. No. 1,005,591; Oct. 10; Sp. p. 2260; Gaz. vol. 171; p. 389.
Hat-supporter. R. W. Hall. No. 1,011,775; Dec. 12; Sp. p. 3085; Gaz. vol. 173; p. 517.

Hat sweat-band. B. Z. Smith. No. 987,501; Mar. 21; Sp. p. 3672; Gaz. vol. 164; p. 655.
Hat sweat-band. M. H. Petigor. No. 1,000,439; Aug. 15; Sp. p. 2615; Gaz. vol. 169; p. 487.
Hat-tip-clipping machine. H. B. Mallory. No. 998,191; July 18; Sp. p. 3443; Gaz. vol. 168; p. 621.
Hat-trimming machine. C. A. Bingaman. No. 1,003,420; Sept. 19; Sp. p. 2687; Gaz. vol. 170; p. 494.
Hat-trimming stand. J. H. Steick. No. 986,412; Mar. 7; Sp. p. 1379; Gaz. vol. 164; p. 223.
Hats, coats, &c., Rack for. A. J. Mason. No. 984,383; Feb. 14; Sp. p. 2444; Gaz. vol. 163; p. 413.
Hats, Insertion for. F. Wright. No. 985,488; Feb. 28; Sp. p. 4860; Gaz. vol. 163; p. 863.
Hats on the heads of the wearers, Device for retaining ladies'. A. Good. No. 1,001,139; Aug. 22; Sp. p. 4195; Gaz. vol. 169; p. 767.
Hats, Putting together of the metal wires in shapes for ladies'. J. C. Bartz. No. 1,012,968; Dec. 26; Sp. p. 5733; Gaz. vol. 173; p. 1006.
Hatch construction. W. A. Green. No. 1,005,426; Oct. 10; Sp. p. 1867; Gaz. vol. 171; p. 330.
Hatch-cover fastener. H. N. Herriman. No. 1,008,146; Nov. 7; Sp. p. 1064; Gaz. vol. 172; p. 173.
Hatch-cover, Self-operated. G. and S. Walker. No. 987,197; Mar. 21; Sp. p. 3045; Gaz. vol. 164; p. 551.
Hatch-opener. G. Mazzolini. No. 989,988; Apr. 18; Sp. p. 3649; Gaz. vol. 165; p. 632.
Hatchets, Gage attachment for. T. Litzenberg. No. 989,715; Apr. 18; Sp. p. 3047; Gaz. vol. 165; p. 537.
Hauling and lifting jack. C. J. Livering. No. 990,819; Apr. 25; Sp. p. 5500; Gaz. vol. 165; p. 947.
Hauling-tackle. S. Ashdown. No. 982,113; Jan. 17; Sp. p. 4319; Gaz. vol. 162; p. 721.
Hawse-snubbing device. C. W. Littlefield. No. 980,425; Jan. 3; Sp. p. 509; Gaz. vol. 162; p. 87.
Hay and grain loader. J. W. Challoner and H. T. Shipley. No. 990,108; Apr. 18; Sp. p. 3874; Gaz. vol. 165; p. 669.
Hay and other material, Apparatus for unloading. N. C. Miller. No. 1,003,286; Sept. 12; Sp. p. 2420; Gaz. vol. 170; p. 416.
Hay and other similar carriers, Switch-track for. W. F. Jacobs. No. 981,273; Jan. 10; Sp. p. 2526; Gaz. vol. 162; p. 411.
Hay and similar material drying apparatus. E. Eichler and O. Tielemann. No. 999,706; Aug. 1; Sp. p. 997; Gaz. vol. 169; p. 174.
Hay and stock rack. F. Cowles. No. 991,607; May 9; Sp. p. 1683; Gaz. vol. 166; p. 309.
Hay-binder W. Carson. No. 992,642; May 16; Sp. p. 3890; Gaz. vol. 166; p. 694.
Hay-carrier. P. A. Myers. No. 1,012,692; Dec. 26; Sp. p. 5070; Gaz. vol. 173; p. 910.
Hay-carrier, Cross-draft. W. F. Jacobs. No. 988,573; Apr. 4; Sp. p. 606; Gaz. vol. 165; p. 98.
Hay-curing frame. P. Kutchan. No. 1,003,921; Sept. 19; Sp. p. 3738; Gaz. vol. 170; p. 666.
Hay-elevator. V. L. Ney. No. 980,822; Jan. 3; Sp. p. 1379; Gaz. vol. 162; p. 220.
Hay-fork. W. H. Kaiser. No. 985,418; Feb. 28; Sp. p. 4687; Gaz. vol. 163; p. 836.
Hay-fork. J. W. Melville. No. 993,267; May 23; Sp. p. 5219; Gaz. vol. 166; p. 936.
Hay-fork. J. A. Watson. No. 1,003,833; Sept. 19; Sp. p. 3570; Gaz. vol. 170; p. 635.
Hay-fork, Grapple. D D Miller. No. 991,873; May 9; Sp. p. 2226; Gaz. vol. 166; p. 398.
Hay, grain, and stock rack, Combined. J. L. Claudin. No. 989,118; Apr. 11; Sp. p. 1734; Gaz. vol. 165; p. 302.
Hay-grinder. G. Wetterhold. No. 999,932; Aug. 8; Sp. p. 1481; Gaz. vol. 169; p. 281.
Hay-handling mechanism. M. H. Madsen. No. 981,094; Jan. 10; Sp. p. 2094; Gaz. vol. 162; p. 346.
Hay-knife. T. J. Maddrell. No. 1,006,246; Oct. 17; Sp. p. 3705; Gaz. vol. 171; p. 651.
Hay-knife. G. A. Swineford. No. 1,008,088; Nov. 7; Sp. p. 943; Gaz. vol. 172; p. 152.
Hay-knife, Folding. L. L. Carr. No. 1,007,529; Oct. 31; Sp. p. 6545; Gaz. vol. 171; p. 1183.
Hay-loader. B. A. Spinney. No. 981,894; Jan. 17; Sp. p. 3836; Gaz. vol. 162; p. 647.
Hay-loader. O. F. Smith. No. 985,218; Feb. 28; Sp. p. 4245; Gaz. vol. 163; p. 769.
Hay-loader. H. T. Shipley and J. W. Challoner. No. 986,230; Mar. 7; Sp. p. 976; Gaz. vol. 164; p. 159.
Hay-loader. S. M. Wixcel. No. 988,236; Mar. 28; Sp. p. 5260; Gaz. vol. 164; p. 933.
Hay-loader. A. Otto, Jr. No. 999,585; Aug. 1; Sp. p. 773; Gaz. vol. 169; p. 134.
Hay-loader. D. Pedersen. No. 1,002,438; Sept. 5; Sp. p. 585; Gaz. vol. 170; p. 84.
Hay-loader. H. Eilers. No. 1,005,524; Oct. 10; Sp. p. 2074; Gaz. vol. 171; p. 365.
Hay-press. F. W. Ehman. No. 981,626; Jan. 17; Sp. p. 3265; Gaz. vol. 162; p. 554.
Hay-press. I. C. Terry. No. 986,873; Mar. 14; Sp. p. 2372; Gaz. vol. 164; p. 411.
Hay-press. J. G. Hale. No. 991,438; May 2; Sp. p. 1300; Gaz. vol. 166; p. 217.
Hay-press. F. A. Ryther. No. 995,912; June 20; Sp. p 3972; Gaz. vol. 167; p. 689.
Hay-press. G. W. Phelps. No. 996,520; June 27; Sp. p. 5314; Gaz. vol. 167; p. 932.
Hay-press. A. Tinker. No. 1,005,903; Oct. 17; Sp. p. 2915; Gaz. vol. 171; p. 529.
Hay-press. C. A. Hughes. No. 1,006,220; Oct. 17; Sp. p. 3646; Gaz. vol. 171; p. 642.
Hay-press. E. U. Denmon and W. M. Peyton. No. 1,008,021; Nov. 7; Sp. p. 812; Gaz. vol. 172; p. 129.
Hay-press. B. C. Bradley. No. 1,009,719; Nov. 28; Sp. p. 4627; Gaz. vol. 172; p. 841.
Hay-press, Automatic. W. S. Parvin and W. J. Muse. No. 986,750; Mar. 14; Sp. p. 2104; Gaz. vol. 164; p. 368.
Hay-press, Hand-power. F. O. Reeves. No. 987,913; Mar. 28; Sp. p. 4578; Gaz. vol. 164; p. 824.
Hay-press running-gear. H. J. Butt. No. 988,172; Mar. 28; Sp. p. 5139; Gaz. vol. 164; p. 912.
Hay-presses, Tally-keeper for. C. Gobell. No. 1,007,780; Nov. 7; Sp. p. 289; Gaz. vol. 172; p. 46.
Hay-rack. P. Myrholm. No. 980,323; Jan. 3; Sp. p. 278; Gaz. vol. 162; p. 51.
Hay-rack. A. Kirsch. No. 986,468; Mar. 14; Sp. p. 1504; Gaz. vol. 164; p. 271.
Hay-rack. I. Kern. No. 987,377; Mar. 21; Sp. p. 3416; Gaz. vol. 164; p. 612.
Hay-rack. G. Carney. No. 988,173; Mar. 28; Sp. p. 5143; Gaz. vol. 164; p. 912.
Hay-rack. J. Hayden. No. 989,356; Apr. 11; Sp. p. 2258; Gaz. vol. 165; p. 383.
Hay-rack. W. F. Rodebaugh. No. 993,879; May 30; Sp. p. 6543; Gaz. vol. 166; p. 1179.
Hay-rack. E. M. Snavely. No. 994,207; June 6; Sp. p. 221; Gaz. vol. 167; p. 38.
Hay-rack. W. A. Raudabaugh. No. 996,524; June 27; Sp. p. 5328; Gaz. vol. 167; p. 933.
Hay-rack. S. E. Shafer. No. 1,003,010; Sept. 12; Sp. p. 1836; Gaz. vol. 170; p. 318.
Hay-rack. B. Martin. No. 1,003,367; Sept. 12; Sp. p. 2580; Gaz. vol. 170; p. 444.
Hay-rack brace and stay. D. H. Rinehart. No. 991,024; May 2; Sp. p. 409; Gaz. vol. 166; p. 70.
Hay-rack brake. G. C. Battin. No. 1,008,520; Nov. 14; Sp. p. 2020; Gaz. vol. 172; p. 345.
Hay-rack-unloading mechanism. T. W. McKernan and W. H. Bedard. No. 992,894; May 23; Sp. p. 4426; Gaz. vol. 166; p. 812.
Hay-rake. C. H. Pelton. No. 983,642; Feb. 7; Sp. p. 824; Gaz. vol. 163; p. 132.
Hay-rake. C. Pearson. No. 992,384; May 16; Sp. p. 3361; Gaz. vol. 166; p. 605.
Hay-rake. E. D. Lewallen. No. 992,889; May 23; Sp. p. 4415; Gaz. vol. 166; p. 810.
Hay-rake. D. L. Lapeyrouze. No. 993,531; May 30; Sp. p. 5797; Gaz. vol. 166; p. 1059.
Hay-rake. L. M. Jones and A. Johnston. No. 996,255; June 27; Sp. p. 4730; Gaz. vol. 167; p. 841.
Hay-rake. C. Pearson. No. 1,000,438; Aug. 15; Sp. p. 2613; Gaz. vol. 169; p. 486.
Hay-rake. H. Torgersen. No. 1,001,904; Aug. 29; Sp. p. 5798; Gaz. vol. 169; p. 1056.
Hay-rake. J. Dain. No. 1,007,676; Nov. 7; Sp. p. 34; Gaz. vol. 172; p. 9.
Hay-rake. J. W. Latimer. No. 1,009,156; Nov. 21; Sp. p. 3381; Gaz. vol. 172; p. 598.
Hay rake and stacker, Combined. C. Pearson. No. 993,546; May 30; Sp. p. 5833; Gaz. vol. 166; p. 1064.
Hay rake and tedder, Combined. J. N. J. Hilbert. No. 1,008,467; Nov. 14; Sp. p. 1916; Gaz. vol. 172; p. 328.
Hay-rake or sweep-rake. J. W. Little and C. W. Kelley. No. 1,002,165; Aug. 29; Sp. p. 6306; Gaz. vol. 169; p. 1139.
Hay-rakes, Fore-carriage for. C. Pearson. No. 1,005,066; Oct. 3; Sp. p. 1071; Gaz. vol. 171; p. 180.
Hay raking and bunching machine. J. W. O'Banion and J. Nichol. No. 1,007,378; Oct. 31; Sp. p. 6212; Gaz. vol. 171; p. 1131.
Hay-sling carrier, Triple-draft-. J. H. Stevenson. No. 1,011,388; Dec. 12; Sp. p. 2225; Gaz. vol. 173; p. 379.
Hay-sweep. C. B. Purdy. No. 992,060; May 9; Sp. p. 2588; Gaz. vol. 166; p. 461.
Hay-tedder fork. W. W. Shaw and W. M. Holmes. No. 986,511; Mar. 14; Sp. p. 1602; Gaz. vol. 164; p. 285.
Hay-tedder reversible fork. J. A. Sharp. No. 1,009,105; Nov. 21; Sp. p. 3292; Gaz. vol. 172; p. 582.
Hay-unloader. H. T. Holten. No. 989,504; Apr. 11; Sp. p. 2552; Gaz. vol. 165; p. 433.
Hay-unloader. M. L. Coover. No. 996,216; June 27; Sp. p. 4648; Gaz. vol. 167; p. 829.
Head-gate. P. L. Hedrick. No. 988,777; Apr. 4; Sp. p. 1049; Gaz. vol. 165; p. 167.
Head-gate. F. P. Snow. No. 989,202; Apr. 11; Sp. p. 1906; Gaz. vol. 165; p. 330.
Head-gate. K. J. Thorsby. No. 994,347; June 6; Sp. p. 501; Gaz. vol. 167; p. 86.
Head-gate. E. Ashley. No. 1,004,133; Sept. 26; Sp. p. 4323; Gaz. vol. 170; p. 769.
Head-gate, Flume. E. Ashley. No. 983,341; Feb. 7; Sp. p. 177; Gaz. vol. 163; p. 31.
Head-gear. N. N. Goodman. No. 991,777; May 9; Sp. p. 2024; Gaz. vol. 166; p. 364.
Head-protector. E. A. Walz. No. 1,004,507; Sept. 26; Sp. p. 5085; Gaz. vol. 170; p. 895.

Alphabetical list of inventions—Continued.

Head-rest. N. W. Kline. No. 1,002,589; Sept. 5; Sp. p. 910; Gaz. vol. 170; p. 135.
Head-stock or chuck. H. J. Hjorth. No. 1,005,214; Oct. 10; Sp. p. 1376; Gaz. vol. 171; p. 253.
Header dumping attachment. M. F. Brauer. No. 1,009,890; Nov. 28; Sp. p. 4974; Gaz. vol. 172; p. 898.
Heading and slotting machine. C. Glover and H. K. Jones. No. 990,544; Apr. 25; Sp. p. 4903; Gaz. vol. 165; p. 855.
Heading-machine. W. C. Grant. No. 994,831; June 13; Sp. p. 1619; Gaz. vol. 167; p. 292.
Heading-machine punch-block. E. W. Duston. No. 1,012,341; Dec. 19; Sp. p. 4366; Gaz. vol. 173; p. 747.
Heading-machines, Ejecting mechanism for. E. W. Duston. No. 1,004,247; Sept. 26; Sp. p. 4567; Gaz. vol. 170; p. 808.
Headlight. R. H. Welles. No. 981,044; Jan. 10; Sp. p. 1992; Gaz. vol. 162; p. 329.
Headlight. R. H. Welles. No. 981,045; Jan. 10; Sp. p. 1994; Gaz. vol. 162; p. 329.
Headlight. R. H. Welles. No. 989,675; Apr. 18; Sp. p. 2972; Gaz. vol. 165; p. 523.
Headlight. R. D. and J. C. Ewen. No. 995,527; June 20; Sp. p. 3123; Gaz. vol. 167; p. 555.
Headlight. R. A. Bell and J. B. McKiel. No. 996,745; July 4; Sp. p. 289; Gaz. vol. 168; p. 50.
Headlight. R. M. Dooley. No. 1,007,435; Oct. 31; Sp. p. 6340; Gaz. vol. 171; p. 1151.
Headlight-adjuster. C. F. Turner. No. 984,620; Feb. 21; Sp. p. 2980; Gaz. vol. 163; p. 529.
Headlight-adjuster. F. R. Cunningham. No. 1,009,385; Nov. 21; Sp. p. 3950; Gaz. vol. 172; p. 683.
Headlight-adjuster. A. S. Williams. No. 1,012,954; Dec. 26; Sp. p. 5713; Gaz. vol. 173; p. 1002.
Headlight-adjuster, Automobile. N. B. Gockley. No. 983,991; Feb. 14; Sp. p. 1618; Gaz. vol. 163; p. 280.
Headlight-adjuster, Automobile. E. H. Plank and D. A. Groff. No. 1,002,540; Sept. 5; Sp. p. 806; Gaz. vol. 170; p. 118.
Headlight-adjusting apparatus, Automatic. H. M. Herrold and C. P. Rhoads. No. 998,846; July 25; Sp. p. 4915; Gaz. vol. 168; p. 884.
Headlight attachment for automobiles. J. H. Adams. No. 988,058; Mar. 28; Sp. p. 4927; Gaz. vol. 164; p. 875.
Headlight, Auto-. E. J. Hewling. No. 984,480; Feb. 14; Sp. p. 2632; Gaz. vol. 163; p. 444.
Headlight, Automobile-. W. H. Hunt and R. C. Vroom. No. 982,066; Jan. 17; Sp. p. 4230; Gaz. vol. 162; p. 705.
Headlight, Automobile-. J. H. Adams. No. 1,004,953; Oct. 3; Sp. p. 871; Gaz. vol. 171; p. 142.
Headlight, Automobile-. L. O. Amanson and M. H. Ulrich. No. 1,010,340; Nov. 28; Sp. p. 5898; Gaz. vol. 172; p. 1050.
Headlight-controller. A. Janishefski. No. 1,004,878; Oct. 3; Sp. p. 730; Gaz. vol. 171; p. 117.
Headlight-controller for vehicles. C. E. and A. M. Walters. No. 987,843; Mar. 28; Sp. p. 4400; Gaz. vol. 164; p. 800.
Headlight-controlling device. C. A. Moberg. No. 991,346; May 2; Sp. p. 1114; Gaz. vol. 166; p. 186.
Headlight-controlling device. J. Torma and J. F. Orth. No. 1,011,278; Dec. 12; Sp. p. 1994; Gaz. vol. 173; p. 342.
Headlight-controlling device, Locomotive-. J. Bulger. No. 1,012,516; Dec. 19; Sp. p. 4687; Gaz. vol. 173; p. 805.
Headlight-controlling means. J. A. Moder. No. 983,456; Feb. 7; Sp. p. 430; Gaz. vol. 163; p. 69.
Headlight-cover. C. H. Chamberlain. No. 1,011,742; Dec. 12; Sp. p. 3026; Gaz. vol. 173; p. 505.
Headlight, Dash electric. J. Kirby, Jr. No. 1,003,468; Sept. 19; Sp. p. 2792; Gaz. vol. 170; p. 511.
Headlight, Dirigible. M. Mayo. No. 981,449; Jan. 10; Sp. p. 2915; Gaz. vol. 162; p. 471.
Headlight, Dirigible. I. M. Rasmussen and G. A. Anderson. No. 983,766; Feb. 7; Sp. p. 1089; Gaz. vol. 163; p. 175.
Headlight, Dirigible. D. L. Harrell. No. 985,998; Mar. 7; Sp. p. 531; Gaz. vol. 164; p. 84.
Headlight, Dirigible. W. B. Austin. No. 992,142; May 16; Sp. p. 2777; Gaz. vol. 166; p. 519.
Headlight, Dirigible. J. Michki and J. Toth. No. 1,004,454; Sept. 26; Sp. p. 4983; Gaz. vol. 170; p. 877.
Headlight, Dirigible. G. J. Baker. No. 1,004,964; Oct. 3; Sp. p. 888; Gaz. vol. 171; p. 146.
Headlight, Dirigible. J. L. Lowe. No. 1,007,880; Nov. 7; Sp. p. 533; Gaz. vol. 172; p. 81.
Headlight for cars, Automatically-controlled. W. S. Waltz. No. 986,106; Mar. 7; Sp. p. 742; Gaz. vol. 164; p. 119.
Headlight for cars, Dirigible. J. F. Woitynek. No. 991,682; May 9; Sp. p. 1859; Gaz. vol. 166; p. 336.
Headlight, Movable. J. McElliott. No. 983,831; Feb. 7; Sp. p. 1238; Gaz. vol. 163; p. 197.
Headlight-operating device. J. Kaufman. No. 1,009,973; Nov. 28; Sp. p. 5144; Gaz. vol. 172; p. 926.
Headlight-operating mechanism. H. Kiehlbauch. No. 1,008,649; Nov. 14; Sp. p. 2326; Gaz. vol. 172; p. 393.
Headlight-operating mechanism, Automatic. G. H. Herrick. No. 990,871; May 2; Sp. p. 99; Gaz. vol. 166; p. 18.
Headlight or other light-projector. W. Churchill. No. 1,004,628; Oct. 3; Sp. p. 171; Gaz. vol. 171; p. 30.
Headlight-shade. J. R. Green. No. 998,501; July 18; Sp. p. 4126; Gaz. vol. 168; p. 731.
Headlight-shifting mechanism. L. C. Amberson. No. 981,350; Jan. 10; Sp. p. 2694; Gaz. vol. 162; p. 437.
Headlight-signal. M. W. Hampton. No. 1,001,392; Aug. 22; Sp. p. 4724; Gaz. vol. 169; p. 852.
Headlight, Vehicle-. J. M. Benninghoff. No. 981,834; Jan. 17; Sp. p. 3699; Gaz. vol. 162; p. 625.
Headlight, Vehicle-. F. J. Madden. No. 983,630; Feb. 7; Sp. p. 802; Gaz. vol. 163; p. 128.
Headlight, Vehicle-. W. Clites. No. 1,001,730; Aug. 29; Sp. p. 5396; Gaz. vol. 169; p. 995.
Headlight, Vehicle-. A. Seuss. No. 1,010,965; Dec. 5; Sp. p. 1248; Gaz. vol. 173; p. 198.
Headlights, Automatic adjusting means for. J. P. McElliott. No. 988,008; Mar. 28; Sp. p. 4815; Gaz. vol. 164; p. 858.
Headlights, Optical system for. W. Churchill. No. 1,004,627; Oct. 3; Sp. p. 170; Gaz. vol. 171; p. 29.
Headwear. M. Lobel. No. 999,812; Aug. 8; Sp. p. 1224; Gaz. vol. 169; p. 240.
Headwear, Automobile-. L. S. Major. No. 1,012,675; Dec. 26; Sp. p. 5039; Gaz. vol. 173; p. 905.
Hearth, Warm-air-regulating. E. B. Lobach. No. 1,006,858; Oct. 24; Sp. p. 5057; Gaz. vol. 171; p. 895.
Heat by means of superheated steam, Transmission of. F. Jensen. No. 984,431; Feb. 14; Sp. p. 2533; Gaz. vol. 163; p. 429.
Heat-distributing system. W. H. Pearce. No. 997,002; July 4; Sp. p. 869; Gaz. vol. 168; p. 139.
Heat-distributing system. L. L. Knox and E. B. Tyler. No. 1,005,717; Oct. 10; Sp. p. 2515; Gaz. vol. 171; p. 432.
Heat-distributing system. W. H. Pearce. No 1,008,432; Nov. 14; Sp. p. 1807; Gaz. vol. 172; p. 314.
Heat-exchanger. N. H. Hiller. No. 998,292; July 18; Sp. p. 3699; Gaz. vol. 168; p. 659.
Heat for the development of power, Utilizing. F. Shuman. No. 1,002,768; Sept. 5; Sp. p. 1307; Gaz. vol. 170; p. 196.
Heat-insulated can. L. R. Steel. No. 1,002,466; Sept. 5; Sp. p. 651; Gaz. vol. 170; p. 94.
Heat-insulated receptacle. L. J. Ulmer. No. 1,004,604; Oct. 3; Sp. p. 121; Gaz. vol. 171; p. 21.
Heat-insulating tube or receptacle. L. R. Steel. No. 1,002,009; Aug. 29; Sp. p. 6021; Gaz. vol. 169; p. 1089.
Heat-insulating vessel C. Hubert. No. 1,001,850; Aug. 29; Sp. p. 5667; Gaz. vol. 169; p. 1037.
Heat-insulating vessel, Metallic. J. L. Fate. No. 992,414; May 16; Sp. p. 3421; Gaz. vol. 166; p. 615.
Heat-insulating wall. C. J. Coleman. No. 984,541; Feb. 21; Sp. p. 2808; Gaz. vol. 163; p. 501.
Heat, Means for accumulating, concentrating, storing, and using waste. J. M. W. Kitchen. No. 992,881; May 23; Sp. p. 4395; Gaz. vol. 166; p. 807.
Heat of metal products, Utilizing the. D. C. Daniels. No. 1,000,328; Aug. 8; Sp. p. 2345; Gaz. vol. 169; p. 415.
Heat-producing compound. A. S. Isaacs. No. 1,010,768; Dec. 5; Sp. p. 833; Gaz. vol. 173; p. 130.
Heat-regulating system. W. D. Smith. No. 990,602; Apr. 25; Sp. p. 5022; Gaz. vol. 165; p. 875.
Heat, Utilizing natural. C. S. Bradley. No. 995,219; June 13; Sp. p. 2423; Gaz. vol. 167; p. 420.
Heater: *See* Automobile-heater; Brooder-heater; Car-heater; Coil-heater; Dental heater; Electric heater; Electrical heater; Electrical immersion-heater; Feed-heater; Feed-water heater; Flat-iron heater; Fluid-heater; Fuel-heater; Furnace-heater; Gas-heater; Glue-heater; Grape-pomace heater; Helical heater; Hot-water heater; Hot-water-bag heater; Immersion-heater; Incubator-heater; Liquid-heater; Lunch-heater; Orchard-heater; Portable heater; Sad-iron heater; Shuttle-heater; Solar heater; Steam and hot-water heater; Tank-heater; Water-heater.
Heater. H. Anderson. No. 981,353; Jan. 10; Sp. p. 2707; Gaz. vol. 162; p. 439.
Heater. A. R. Lundin. No. 985,610; Feb. 28; Sp. p. 5116; Gaz. vol. 163; p 904.
Heater. G. F. Lidy. No. 987,382; Mar. 21; Sp. p. 3428; Gaz. vol. 164; p. 614.
Heater. P. Fraizer and E. A. Nation. No. 988,993; Apr. 11; Sp. p. 1480; Gaz. vol. 165; p. 260.
Heater. C. A. Damon. No. 990,345; Apr. 25; Sp. p. 4431; Gaz. vol. 165; p. 784.
Heater. W. Norris. No. 998,114; July 18; Sp. p. 3298; Gaz. vol. 168; p. 594.
Heater. L. Jacobson. No. 1,002,519; Sept. 5; Sp. p. 757; Gaz. vol. 170; p. 111.
Heater. F. A. Nopenz. No. 1,002,538; Sept. 5; Sp. p. 801; Gaz. vol. 170; p. 117.
Heater. H. J. Lange. No. 1,004,042; Sept. 26; Sp. p. 4092; Gaz. vol. 170; p. 736.
Heater and boiler, Combined. P. A. Deasy. No. 985,787; Mar. 7; Sp. p. 38; Gaz. vol. 164; p. 9.
Heater and cook-stove, Combined. J. A. Lachaine. No. 1,000,020; Aug. 8; Sp. p. 1658; Gaz. vol. 169; p. 311.
Heater and filter, Combined. O. F. Gambati. No. 984,757; Feb. 21; Sp. p. 3276; Gaz. vol. 163; p. 578.

Alphabetical list of inventions—Continued.

Heater and separator. J. W. Gamble and A. B. Wallem. No. 996,577; June 27; Sp. p. 5436; Gaz. vol. 167; p. 951.
Heater draft-controller. R. M. Redding and G. Florence. No. 1,009,573; Nov. 21; Sp. p. 4344; Gaz. vol. 172; p. 747.
Heater or the like. F. R. McGregor. No. 996,657; July 4; Sp. p. 128; Gaz. vol. 168; p. 22.
Heater-regulator. A. Carpenter. No. 1,012,596; Dec. 26; Sp. p. 4871; Gaz. vol. 173; p. 878.
Heaters, Automatic temperature control for water-. L. R. Alberger. No. 1,009,820; Nov. 28; Sp. p. 4843; Gaz. vol. 172; p. 876.
Heaters, Safety device for immersion-. C. S. Walton. No. 994,351; June 6; Sp. p. 513; Gaz. vol. 167; p. 89.
Heating and drying machine. F. P. Mies. No. 999,241; Aug. 1; Sp. p. 97; Gaz. vol. 169; p. 18.
Heating and power plant. J. M. W. Kitchen. No. 1,009,320; Nov. 21; Sp. p. 3785; Gaz. vol. 172; p. 659.
Heating and ventilating system. E. Y. Breck and C. T. Kurtz. No. 987,792; Mar. 28; Sp. p. 4297; Gaz. vol. 164; p. 783.
Heating and ventilating system. E. H. Gold. No. 995,403; June 13; Sp. p. 2836; Gaz. vol. 167; p. 482.
Heating and ventilating system. L. P. Armstrong. No. 1,000,065; Aug. 8; Sp. p. 1770; Gaz. vol. 169; p. 326.
Heating and ventilating system. F. P. Mies. No. 1,002,298; Sept. 5; Sp. p. 257; Gaz. vol. 170; p. 34.
Heating and ventilating system. C. Kleinschmidt. No. 1,002,407; Sept. 5; Sp. p. 522; Gaz. vol. 170; p. 74.
Heating apparatus. A. M. Lorentz. No. 980,649; Jan. 3; Sp. p. 1013; Gaz. vol. 162; p. 164.
Heating apparatus. J. M. W. Kitchen. No. 982,432; Jan. 24; Sp. p. 4981; Gaz. vol. 162; p. 861.
Heating apparatus. B. O. Adler. No. 985,240; Feb. 28; Sp. p. 4302; Gaz. vol. 163; p. 777.
Heating apparatus. H. C. Mallory. No. 988,726; Apr. 4; Sp. p. 943; Gaz. vol. 165; p. 150.
Heating apparatus. H. C. Mallory. No. 988,727; Apr. 4; Sp. p. 948; Gaz. vol. 165; p. 151.
Heating apparatus. L. A. Brigel. No. 992,155; May 16; Sp. p. 2813; Gaz. vol. 166; p. 524.
Heating apparatus. J. M. W. Kitchen. No. 993,690; May 30; Sp. p. 6163; Gaz. vol. 166; p. 1115.
Heating apparatus. M. and M. M. Méran. No. 994,599; June 6; Sp. p. 1030; Gaz. vol. 167; p. 172.
Heating apparatus. H. L. Cole. No. 1,005,160; Oct. 10; Sp. p. 1256; Gaz. vol. 171; p. 234.
Heating apparatus. J. W. Jones. No. 1,011,438; Dec. 12; Sp. p. 2326; Gaz. vol. 173; p. 398.
Heating apparatus, Automatic pilot-light-controlled. I. J. O'Malley. No. 1,001,883; Aug. 29; Sp. p. 5745; Gaz. vol. 169; p. 1049.
Heating apparatus, Automatic regulator for feeding fuel to. A. W. K. Billings. No. 980,401; Jan. 3; Sp. p. 455; Gaz. vol. 162; p. 78.
Heating apparatus, Electric. A. Trepreau. No. 998,269; July 18; Sp. p. 3636; Gaz. vol. 168; p. 650.
Heating apparatus, Electric. H. Löfquist. No. 1,012,669; Dec. 26; Sp. p. 5025; Gaz. vol. 173; p. 902.
Heating apparatus, Oil-burning. T. Lembke. No. 990,755; Apr. 25; Sp. p. 5365; Gaz. vol. 165; p. 925.
Heating apparatus, Portable. H. C. Stout. No. 985,556; Feb. 28; Sp. p. 5006; Gaz. vol. 163; p. 886.
Heating apparatus, Steam-. J. F. McElroy. No. 990,760; Apr. 25; Sp. p. 5375; Gaz. vol. 165; p. 927.
Heating apparatus, Steam-. W. T. Peck and J. E. Cleland. No. 990,769; Apr. 25; Sp. p. 5398; Gaz. vol. 165; p. 931.
Heating broken stone or other mineral aggregate, Device for. C. P. Price. No. 998,984; July 25; Sp. p. 5244; Gaz. vol. 168; p. 934.
Heating buildings by hot water, Apparatus for. F. Walter. No. 1,005,378; Oct. 10; Sp. p. 1759; Gaz. vol. 171; p. 314.
Heating, cooling, and ventilating buildings, Apparatus for. E. C. Hodges. No. 982,721; Jan. 24; Sp. p. 5574; Gaz. vol. 162; p. 959.
Heating, cooling, and ventilating system. F. P. Mies. No. 998,975; July 25; Sp. p. 5225; Gaz. vol. 168; p. 931.
Heating device. H. L. Galbraith. No. 1,011,608; Dec. 12; Sp. p. 2752; Gaz. vol. 173; p. 461.
Heating device and constructing the same, Electric. H. B. Taylor. No. 1,005,360; Oct. 10; Sp. p. 1729; Gaz. vol. 171; p. 308
Heating device, Electric. W. S. Hadaway, Jr. No. 996,758; July 4; Sp. p. 322; Gaz. vol. 168; p. 55.
Heating device, Open-air. P. H. Troutman. No. 1,009,603; Nov. 21; Sp. p. 4392; Gaz. vol. 172; p. 756.
Heating devices, Thermostatic control for electric. E. C. McBride. No. 989,273; Apr. 11; Sp. p. 2074; Gaz. vol. 165; p. 354.
Heating-furnace. W. W. Lininger and J. G. Pitton. No. 1,001,656; Aug. 29; Sp. p. 5232; Gaz. vol. 169; p. 970.
Heating installation, Hot-water. I. Wassiliew. No. 993,926; May 30; Sp. p. 6621; Gaz. vol. 166; p. 1193.
Heating large bodies of air, Apparatus for. J. Hagenmeister. No. 1,010,898; Dec. 5; Sp. p. 1107; Gaz. vol. 173; p. 174.
Heating-plate. E. B. Priebe. No. 1,011,487; Dec. 12; Sp. p. 2445; Gaz. vol. 173; p. 417.
Heating process and system. J. M. W. Kitchen. No. 995,154; June 13; Sp. p. 2306; Gaz. vol. 167; p. 400.
Heating, refrigerating, evaporating, and other apparatus, Vacuum system for use in connection with. N. E. Frost. No. 1,012,837; Dec. 26; Sp. p. 5426; Gaz. vol. 173; p. 963.
Heating surfaces, Machine for. F. J. Ballintine. No. 1,007,173; Oct. 31; Sp. p. 5787; Gaz. vol. 171; p. 1058.
Heating system. E. H. Gold. No. 987,568; Mar. 21; Sp. p. 3796; Gaz. vol. 164; p. 676.
Heating system. I. Cowles. No. 987,861; Mar. 28; Sp. p. 4437; Gaz. vol. 164; p. 807.
Heating system. R. L. Gifford. No. 987,871; Mar. 28; Sp. p. 4461; Gaz. vol. 164; p. 810.
Heating system. R. L. Gifford and I. Cowles. No. 987,872; Mar. 28; Sp. p. 4464; Gaz. vol. 164; p. 811.
Heating system. R. M. Dixon. No. 989,581; Apr. 18; Sp. p. 2769; Gaz. vol. 165; p. 491.
Heating system. E. E. Gold. No. 994,994; June 13; Sp. p. 1985; Gaz. vol. 167; p. 347.
Heating system. H. C. Skinner and E. H. Wells. No. 996,733; July 4; Sp. p. 265; Gaz. vol. 168; p. 47.
Heating system. B. F. Seymour. No. 1,003,523; Sept. 19; Sp. p. 2897; Gaz. vol. 170; p. 530.
Heating system. E. E. Gold. No. 1,007,000; Oct. 24; Sp. p. 5378; Gaz. vol. 171; p. 943.
Heating system. A. G. Paul. No. 1,008,054; Nov. 7; Sp. p. 877; Gaz. vol. 172; p. 141.
Heating system. D. M. McLaughlin. No. 1,010,293; Nov. 28; Sp. p. 5802; Gaz. vol. 172; p. 1034.
Heating system. W. P. Cosper. No. 1,012,329; Dec. 19; Sp. p. 4337; Gaz. vol. 173; p. 743.
Heating system and system for temperature regulation. W. M. Fulton. No. 998,767; July 25; Sp. p. 4746; Gaz. vol. 168; p. 858.
Heating system, Hot-water. C. C. Peck. No. 996,129; June 27; Sp. p. 4423; Gaz. vol. 167; p. 800.
Heating system, Interior-. E. M. Matthews. No. 993,857; May 30; Sp. p. 6504; Gaz. vol. 166; p. 1172.
Heating system, Multiple-regulation. E. H. Gold. No. 987,569; Mar. 21; Sp. p. 3801; Gaz. vol. 164; p. 677.
Heating system, Single-boiler. J. Schwab. No. 1,010,964; Dec. 5; Sp. p. 1247; Gaz. vol. 173; p. 198.
Heating system, Steam-. E. H. Gold. No. 1,008,325; Nov. 14; Sp. p. 1517; Gaz. vol. 172; p. 278.
Heating system, Thermostatically-controlled. H. C. Mallory. No. 988,725; Apr. 4; Sp. p. 942; Gaz. vol. 165; p. 150.
Heating system, Trapped. E. E. Gold. No. 1,008,939; Nov. 7; Sp. p. 659; Gaz. vol. 172; p. 102.
Heating systems, Automatic regulator for steam and other. D. M. Nesbit. No. 1,009,926; Nov. 28; Sp. p. 5040; Gaz. vol. 172; p. 910.
Heating systems, T pipe and plug for. J. Dunn. No. 998,843; July 25; Sp. p. 4908; Gaz. vol. 168; p. 883.
Heating systems, Thermostatic controller for fluid-. C. E. Adair. No. 982,229; Jan 24; Sp. p. 4541; Gaz. vol. 162; p. 791.
Heating unit, Electric. E. J. Ovington. No. 994,188; June 6; Sp. p. 181; Gaz. vol. 167; p. 32.
Heddle. J. Kaufmann. No. 996,650; July 4; Sp. p. 114; Gaz. vol. 168; p. 20.
Heddle. W. Fehr and J. Kaufmann. No. 997,283; July 11; Sp. p. 1444; Gaz. vol. 168; p. 266.
Heddle-frame. J. Kaufmann. No. 980,285; Jan. 3; Sp. p. 201; Gaz. vol. 162; p. 39.
Hedge-shears. H. S. Ballantine. No. 998,828; July 25; Sp. p. 4861; Gaz. vol. 168; p. 878.
Hedge-trimmer. A. D. Thompson and W. Morlok. No. 997,218; July 4; Sp. p. 1305; Gaz. vol. 168; p. 212.
Hedge-trimmer. J. B. Lincoln. No. 997,396; July 11; Sp. p. 1668; Gaz. vol. 168; p. 302.
Heel. L. Andrews. No. 988,060; Mar. 28; Sp. p. 4931; Gaz. vol. 164; p. 875.
Heel. U. Mahler. No. 995,475; June 20; Sp. p. 3010; Gaz. vol. 167; p. 536.
Heel. J. E. Glidden. No. 1,007,687; Nov. 7; Sp. p. 66; Gaz. vol. 172; p. 12.
Heel. U. Mahler. No. 1,008,841; Nov. 14; Sp. p. 2724; Gaz. vol. 172; p. 458.
Heel. J. L. Church. No. 1,012,597; Dec. 26; Sp. p. 4873; Gaz. vol. 173; p. 878.
Heel and sole protector. H. B. Bornside. No. 1,006,627; Oct. 24; Sp. p. 4576; Gaz. vol. 171; p. 816.
Heel and sole protectors for boots and shoes, Machine for making and setting. I. F. Peck. No. 994,334; June 6; Sp. p. 474; Gaz. vol. 167; p. 82.
Heel and sole protectors for boots and shoes, Machine for setting. H. W. Winter. No. 983,665; Feb. 7; Sp. p. 879; Gaz. vol. 163; p. 140.
Heel and sole protectors for boots and shoes, Machine for setting. H. W. Winter. No. 1,001,110; Aug. 22; Sp. p. 4142; Gaz. vol. 169; p. 758.
Heel and sole protectors for boots or shoes, Machine for setting. H. W. Winter. No. 1,002,189; Aug. 29; Sp. p. 6349; Gaz. vol. 169; p. 1148.
Heel and sole protectors, Machine for setting. H. W. Winter. No. 994,354; June 6; Sp. p. 518; Gaz. vol. 167; p. 90.

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Heel and sole protectors, Machine for setting. H. W. Winter. No. 1,000,870; Aug. 15; Sp. p. 3564; Gaz. vol. 169; p. 640.
Heel-assembling machine. I. J. Webster. No. 1,012,306; Dec. 19; Sp. p. 4288; Gaz. vol. 173; p. 736.
Heel-attaching machine. J. H. Pope and A. D. Elliott. No. 1,000,119; Aug. 8; Sp. p. 1914; Gaz. vol. 169; p. 345.
Heel-attaching machine. F. F. Raymond, 2d. No. 1,009,710; Nov. 21; Sp. p. 4586; Gaz. vol. 172; p. 790.
Heel-attaching machine. W. R. Barclay and J. Gouldbourn. No. 1,011,308; Dec. 12; Sp. p. 2055; Gaz. vol. 173; p. 352.
Heel, Boot and shoe. S. Burnham. No. 983,679; Feb. 7; Sp. p. 920; Gaz. vol. 163; p. 145.
Heel, Boot and shoe. J. E. M. Cooke. No. 988,975; Apr. 11; Sp. p. 1432; Gaz. vol. 165; p. 253.
Heel, Boot and shoe. G. R. Scruggs. No. 993,279; May 23; Sp. p. 5236; Gaz. vol. 166; p. 939.
Heel, Boot or shoe. N. B. Arnold. No. 990,094; Apr. 18; Sp. p. 3847; Gaz. vol. 165; p. 666.
Heel-breasting machine. E. A. Webster. No. 981,506; Jan. 10; Sp. p. 3009; Gaz. vol. 162; p. 490.
Heel-breasting machine. E. A. Webster. (Reissue.) No. 13,253; May 30; Sp. p. 7022; Gaz. vol. 166; p. 1261.
Heel-breasting machine. A. Bates. No. 1,000,980; Aug. 22; Sp. p. 3815; Gaz. vol. 169; p. 711.
Heel building and pressing machine. C. O. Ryberg. No. 990,598; Apr. 25; Sp. p. 5015; Gaz. vol. 165; p. 873.
Heel-building, Beveled straight-edge for. R. J. Foster. No. 1,009,232; Nov. 21; Sp. p. 3591; Gaz. vol. 172; p. 627.
Heel-building machine. G. B. Grover. No. 980,512; Jan. 3; Sp. p. 738; Gaz. vol. 162; p. 118.
Heel-building machine. C. O. Ryberg. No. 989,059; Apr. 11; Sp. p. 1618; Gaz. vol. 165; p. 283.
Heel-building machine. W. Wolfe. No. 1,004,952; Oct. 3; Sp. p. 868; Gaz. vol. 171; p. 142.
Heel, Cushion-. W. H. Watson. No. 989,673; Apr. 18; Sp. p. 2968; Gaz. vol. 165; p. 523.
Heel, Cushion-. W. Vogt. No. 1,005,585; Oct. 10; Sp. p. 2249; Gaz. vol. 171; p. 387.
Heel, Detachable. A. Mitlehner. No. 980,987; Jan. 10; Sp. p. 1851; Gaz. vol. 162; p. 309.
Heel, Detachable. J. Wilmshöfer. No. 989,679; Apr. 18; Sp. p. 2979; Gaz. vol. 165; p. 525.
Heel, Detachable. E. T. Benton, Jr. No. 995,656; June 20; Sp. p. 3416; Gaz. vol. 167; p. 602.
Heel, Detachable. C. Schlayer. No. 997,329; July 11; Sp. p. 1547; Gaz. vol. 168; p. 281.
Heel, Detachable. A. W. Carlson. No 1,000,894; Aug. 15; Sp. p. 3608; Gaz. vol. 169; p. 648.
Heel-fastener. F. A. Nolan. No. 1,004,897; Oct. 3; Sp. p. 773; Gaz. vol. 171; p. 124.
Heel for boots and shoes, Cushion-. E. F. Diez. No. 1,011,760; Dec. 12; Sp. p. 3055; Gaz. vol. 173; p. 511.
Heel for boots and shoes, Reinforced resilient. A. Ashley. No. 999,358; Aug. 1; Sp. p. 331; Gaz. vol. 169; p. 58.
Heel for footwear. S. Milano. No. 995,703; June 20; Sp. p. 3503; Gaz. vol. 167; p. 618.
Heel for shoes, Spring-. J. S. Meacham. No. 980,657; Jan. 3; Sp. p. 1055; Gaz. vol. 162; p. 167.
Heel-guard. H. W. Reidner. No. 1,003,372; Sept. 12; Sp. p. 2586; Gaz. vol. 170; p. 445.
Heel-nailing machine. C. R. Towle. No. 982,550; Jan. 24; Sp. p. 5237; Gaz. vol. 162; p. 903.
Heel-nailing machine. E. E. Winkley. No. 983,852; Feb. 7; Sp. p. 1275; Gaz. vol. 163; p. 204.
Heel-nailing machine. B. F. Mayo. No. 1,000,534; Aug. 15; Sp. p. 2816; Gaz. vol. 169; p. 520.
Heel-plate. S. Lowman. No. 998,539; July 18; Sp. p. 4200; Gaz. vol. 168; p. 744.
Heel-plate. J. Jeffre. No. 999,566; Aug. 1; Sp. p. 742; Gaz. vol. 169; p. 128.
Heel-plate. F. M. Heath. No. 1,004,647; Oct. 3; Sp. p. 208; Gaz. vol. 171; p. 36.
Heel-protector. J. E. Brady. No. 1,010,345; Nov. 28; Sp. p. 5907; Gaz. vol. 172; p. 1052.
Heel-seat rough-rounder. J. J. Heys. No. 1,005,545; Oct. 10; Sp. p. 2113; Gaz. vol. 171; p. 372.
Heel-seat rough-rounder, Automatic. M. D. Phelan. No. 1,005,573; Oct. 10; Sp. p. 2214; Gaz. vol. 171; p. 383.
Heel-seat-trimming machine. C. H. Partridge. No. 988,501; Apr. 4; Sp. p. 444; Gaz. vol. 165; p. 72.
Heel-support. J. La Croix. No. 984,571; Feb. 21; Sp. p. 2870; Gaz. vol. 163; p. 511.
Heel-trimming machines, Counter-guard for. A. J. Blair No. 984,883; Feb. 21; Sp. p. 3510; Gaz. vol. 163; p. 621.
Heels and soles, Boring-tool for shoe. M. F. Creahan. No. 1,008,699; Nov. 14; Sp. p. 2425; Gaz. vol. 172; p. 409.
Heels and soles for boots and shoes, Machine for finishing. C. B. Tuttle. No. 993,477; May 30; Sp. p. 5682; Gaz. vol. 166; p. 1040.
Heels and soles of boots and shoes, Machine for feeding protectors for the. C. S. Gooding and S. E. Taft. No. 1,010,492; Dec. 5; Sp. p. 200; Gaz. vol. 173; p. 33.
Heels and soles of boots and shoes, Protector for. S. F. Peck. No. 1,006,978; Oct. 24; Sp. p. 5333; Gaz. vol. 171; p. 936.
Heels, Machine for inserting nails in. A. Bates. No. 1,000,957; Aug. 15; Sp. p. 3735; Gaz. vol. 169; p. 669.
Heels, Machine for inserting nails in. J. Gouldbourn. No. 1,002,836; Sept. 12; Sp. p. 1450; Gaz. vol. 170; p. 258.
Heels of boots and shoes, Machine for attaching. M. T. Denne. No. 993,514; May 30; Sp. p. 5759; Gaz. vol. 166; p. 1052.
Heels of boots and shoes, Machine for compressing the. J. H. Ferrabee, Jr. No. 1,006,072; Oct. 17; Sp. p. 3290; Gaz. vol. 171; p. 588.
Helical cutter. W. F. Zimmermann. No. 1,003,130; Sept. 12; Sp. p. 2083; Gaz. vol. 170; p. 359.
Helical heater for tubes, &c. J. I. Ayer. No. 995,051; June 13; Sp. p. 2113; Gaz. vol. 167; p. 366.
Helical surfaces, Apparatus for machining. W. N. Venner. No. 1,001,908; Aug. 29; Sp. p. 5802; Gaz. vol. 169; p. 1056.
Helicopter. H. H. Gridley. No. 1,012,631; Dec. 26; Sp. p. 4954; Gaz. vol. 173; p. 891.
Hem, Extensible. W. C. Rowland. No. 982,878; Jan. 31; Sp. p. 5942; Gaz. vol. 162; p. 1042.
Hematite to magnetic iron oxid, Reducing. S. Lilja. No. 1,001,536; Aug. 22; Sp. p. 4979; Gaz. vol. 169; p. 898.
Hemp-breaking machine. W. H. Atwood. No. 986,538; Mar. 14; Sp. p. 1656; Gaz. vol. 164; p. 294.
Hemp-stripping machine. V. R. Barrientos. No. 983,867; Feb. 14; Sp. p. 1334; Gaz. vol. 163; p. 239.
Hemstitching-machine. H. Unger. No. 988,050; Mar. 28; Sp. p. 4912; Gaz. vol. 164; p. 871.
Hens from setting, Device for preventing. V. M. Osborn. No. 1,008,050; Nov. 7; Sp. p. 868; Gaz. vol. 172; p. 140.
Hide-stretcher. T. R. McLean. No. 1,006,578; Oct. 24; Sp. p. 4474; Gaz. vol. 171; p. 799.
Hide-stretching device. J. F. Lee. No. 982,147; Jan. 17; Sp. p. 4376; Gaz. vol. 162; p. 732.
Hide-working machine. A. A. Hutchinson. No. 993,068; May 23; Sp. p. 4800; Gaz. vol. 166; p. 873.
Hide-working machine. D. Friedlander. No. 1,009,734; Nov. 28; Sp. p. 4656; Gaz. vol. 172; p. 846.
Hide-working machine. J. W. Aulson. No. 1.011,306; Dec. 12; Sp. p. 2048; Gaz. vol. 173; p. 352.
Hides and skins, Machine for fleshing, unhairing, and working out. G. W. Baker. No. 999,540; Aug. 1; Sp. p. 687; Gaz. vol. 169; p. 118.
Hides and the like, Process and product for use in unliming. G. Eberle. No. 1,006,539; Oct. 24; Sp. p. 4387; Gaz. vol. 171; p. 784.
Hides, Bating. O. Röhm. No. 1,003,124; Sept. 12; Sp. p. 2073; Gaz. vol. 170; p. 357.
Hides, Drying. W. H. Allen. No. 1,009,881; Nov. 28; Sp. p. 4961; Gaz. vol. 172; p. 896.
Hides, skins, and leather, Machine for treating. G. B. Norgrave. No. 982,523; Jan. 24; Sp. p. 5188; Gaz. vol. 162; p. 894.
Hides, skins, and leather, Machine for treating. D. P. O'Brien. No. 989,278; Apr. 11; Sp. p. 2084; Gaz. vol. 165; p. 356.
Hides, Treating. D. Reddan. No. 1,003,205; Sept. 12; Sp. p. 2252; Gaz. vol. 170; p. 387.
High-frequency apparatus. W. Dubilier. No. 1,004,152; Sept. 26; Sp. p. 4375; Gaz. vol. 170; p. 775.
High-pressure-service brake. W. V. Turner. No. 1,011,528; Dec. 12; Sp. p. 2539; Gaz. vol. 173; p. 431.
High-temperature resistance-furnace, Continuously-operating. V. Popp and A. Minet. No. 1,003,789; Sept. 19; Sp. p. 3494; Gaz. vol. 170; p. 622.
High-tension discharge apparatus. E. J. Rose. No. 996,280; June 27; Sp. p. 4795; Gaz. vol. 167; p. 850.
High-water alarm, Electric. E. E. Brackett. No. 987,694; Mar. 28; Sp. p. 4085; Gaz. vol. 164; p. 750.
Highway-signal, Train-controlled. R. D. Peters. No. 985,628; Feb. 28; Sp. p. 5148; Gaz. vol. 163; p. 910.
Hiller. F. R. Kent. No. 1,011,350; Dec. 12; Sp. p. 2160; Gaz. vol. 173; p. 368.
Hinge. J. Foster. No. 980,622; Jan. 3; Sp. p. 953; Gaz. vol. 162; p. 155.
Hinge. J. W. Shine. No. 980,686; Jan. 3; Sp. p. 1105; Gaz. vol. 162; p. 177.
Hinge. C. D. Tabor. No. 983,323; Feb. 7; Sp. p. 141; Gaz. vol. 163; p. 25.
Hinge. G. W. Halley. No. 983,362; Feb. 7; Sp. p. 230; Gaz. vol. 163; p. 39.
Hinge. J. Lezzine. No. 984,380; Feb. 14; Sp. p. 2440; Gaz. vol. 163; p. 413.
Hinge. O. Katzenberger. No. 984,926; Feb. 21; Sp. p. 3598; Gaz. vol. 163; p. 635.
Hinge. R. L. Murdock. No. 986,742; Mar. 14; Sp. p. 2085; Gaz. vol. 164; p. 365.
Hinge. M. S. Nolan. No. 988,492; Apr. 4; Sp. p. 426; Gaz. vol. 165; p. 70.
Hinge. B. J. Aurand. No. 991,262; May 2; Sp. p. 931; Gaz. vol. 166; p. 157.
Hinge. W. H. Danner. No. 992,115; May 9; Sp. p. 2707; Gaz. vol. 166; p. 479.
Hinge. H. P. Dailey. No. 993,154; May 23; Sp. p. 4984; Gaz. vol. 166; p. 901.
Hinge. W. J. Reddick. No. 994,196; June 6; Sp. p. 202; Gaz. vol. 167; p. 35.
Hinge. H. K. Flanders. No. 994,583; June 6; Sp. p. 1000; Gaz. vol. 167; p. 167.
Hinge. V. P. Warren. No. 995,743; June 20; Sp. p. 3600; Gaz. vol. 167; p. 632.

Alphabetical list of inventions—Continued.

Hinge. W. A. Henn and M. D. Helfrich. No. 997,449; July 11; Sp. p. 1764; Gaz. vol. 168; p. 320.
Hinge. T. F. Nelson. No. 1,000,434; Aug. 15; Sp. p. 2605; Gaz. vol. 169; p. 485.
Hinge. C. H. Amann. No. 1,000,879; Aug. 15; Sp. p. 3581; Gaz. vol. 169; p. 643.
Hinge. J. S. Wrikeman. No. 1,001,112; Aug. 22; Sp. p. 4148; Gaz. vol. 169; p. 759.
Hinge. F. C. Grosskopf. No. 1,001,141; Aug. 22; Sp. p. 4198; Gaz. vol. 169; p. 768.
Hinge. R. W. Hubbard. No. 1,001,405; Aug. 22; Sp. p. 4753; Gaz. vol. 169; p. 856.
Hinge. C. W. Bade. No. 1,001,575; Aug. 22; Sp. p. 5056; Gaz. vol. 169; p. 911.
Hinge. G. J. Gruendler. No. 1,002,391; Sept. 5; Sp. p. 499; Gaz. vol. 170; p. 69.
Hinge. I. H. Watters. No. 1,004,317; Sept. 26; Sp. p. 4697; Gaz. vol. 170; p. 831.
Hinge. F. Graap. No. 1,006,082; Oct. 17; Sp. p. 3312; Gaz. vol. 171; p. 591.
Hinge. A. Manderbach. No. 1,006,765; Oct. 24; Sp. p. 4857; Gaz. vol. 171; p. 862.
Hinge. C. J. Soss. No. 1,008,381; Nov. 14; Sp. p. 1667; Gaz. vol. 172; p. 297.
Hinge. J. Soss. No. 1,009,108; Nov. 21; Sp. p. 3301; Gaz. vol. 172; p. 584.
Hinge. F. T. Lippincott. No. 1,009,251; Nov. 21; Sp. p. 3632; Gaz. vol. 172; p. 634.
Hinge. G. Polverino. No. 1,010,949; Dec. 5; Sp. p. 1218; Gaz. vol. 173; p. 192.
Hinge. J. Soss. No. 1,011,512; Dec. 12; Sp. p. 2502; Gaz. vol. 173; p. 426.
Hinge. W. Roper. No. 1,012,162; Dec. 19; Sp. p. 3979; Gaz. vol. 173; p. 686.
Hinge, Adjustable. C. K. Wolf. No. 987,207; Mar. 21; Sp. p. 3066; Gaz. vol. 164; p. 555.
Hinge, Adjustable. B. F. Foss. No. 992,182; May 16; Sp. p. 2866; Gaz. vol. 166; p. 534.
Hinge, Adjustable. A. Varchmin and W. J. Kittle. No. 992,617; May 16; Sp. p. 3847; Gaz. vol. 166; p. 685.
Hinge-adjusting attachment, Door-. P. M. Hanson. No. 1,002,394; Sept. 5; Sp. p. 505; Gaz. vol. 170; p. 70.
Hinge-adjusting device. H. C. Emrich. No. 995,851; June 20; Sp. p. 3851; Gaz. vol. 167; p. 669.
Hinge and check, Combined spring-. F. Brucker. No. 980,592; Jan. 3; Sp. p. 898; Gaz. vol. 162; p. 145.
Hinge and conveyer, Magazine-. W. S. Farnsworth and W. H. Reed. No. 985,990; Mar. 7; Sp. p. 515; Gaz. vol. 164; p. 81.
Hinge and hanger, Combined. E. L. Watrous. No. 998,137; July 18; Sp. p. 3342; Gaz. vol. 168; p. 602.
Hinge-butt. A Laski. No. 1,003,618; Sept. 19; Sp. p. 3125; Gaz. vol. 170; p. 563.
Hinge-butt and mortise gage. C. Bodmer and R. N. Peck. No. 985,504; Feb. 28; Sp. p. 4888; Gaz. vol. 163; p. 867.
Hinge, Cellar-door. J. De Rose. No. 993,227; May 23; Sp. p. 5126; Gaz. vol. 166; p. 924.
Hinge construction for doors. R. G. Winter. No. 989,219; Apr. 11; Sp. p. 1947; Gaz. vol. 165; p. 337.
Hinge device for doors and the like. F. G. Borg. No. 1,000,707; Aug. 15; Sp. p. 3223; Gaz. vol. 169; p. 582.
Hinge, Door-. G. A. Beuhler. No. 1,004,529; Sept. 26; Sp. p. 5125; Gaz. vol. 170; p. 902.
Hinge, Door-. L. Aspy. No. 1,007,838; Nov. 7; Sp. p. 445; Gaz. vol. 172; p. 67.
Hinge, Double-acting floor-. H. G. Voight. No. 993,002; May 23; Sp. p. 4662; Gaz. vol. 166; p. 850.
Hinge, Double-acting spring-. O. Katzenberger. No. 987,467; Mar. 21; Sp. p. 3613; Gaz. vol. 164; p. 643.
Hinge-fastener. B. A. De Lancey. No. 1,002,373; Sept. 5; Sp. p. 457; Gaz. vol. 170; p. 64.
Hinge, Flask-. G. W. Humphries and J. B. Ramsey. No. 999,110; July 25; Sp. p. 5487; Gaz. vol. 168; p. 977.
Hinge, Flask-. J. C. Goodale. No. 1,001,018; Aug. 22; Sp. p. 3939; Gaz. vol. 169; p. 725.
Hinge, Floor-. O. Katzenberger. No. 996,413; June 27; Sp. p. 5124; Gaz. vol. 167; p. 897.
Hinge for doors. A. L. Adler. No. 997,433; July 11; Sp. p. 1737; Gaz. vol. 168; p. 315.
Hinge for water-closet seats. J. W. McAuliffe. No. 1,010,658; Dec. 5; Sp. p. 567; Gaz. vol. 173; p. 90.
Hinge for wind-shields, Friction-. P. N. Landine. No. 1,007,708; Nov. 7; Sp. p. 123; Gaz. vol. 172; p. 20.
Hinge, Friction-locked. A. Brandes. No. 1,004,237; Sept. 26; Sp. p. 4550; Gaz. vol. 170; p. 804.
Hinge, Gate-. W. C. Nolte. No. 996,118; June 27; Sp. p. 4397; Gaz. vol. 167; p. 796.
Hinge, Gravity-. A. N. Anderson. No. 983,015; Jan. 31; Sp. p. 6246; Gaz. vol. 162; p. 1087.
Hinge, Gravity-. E. D. Wheelock and B. T. Cubine. No. 984,724; Feb. 21; Sp. p. 3208; Gaz. vol. 163; p. 567.
Hinge-holder. R. L. Glathart. No. 1,009,500; Nov. 21; Sp. p. 4200; Gaz. vol. 172; p. 723.
Hinge, Invisible. E. R. Hanson. No. 989,350; Apr. 11; Sp. p. 2246; Gaz. vol. 165; p. 381.
Hinge-joint for artificial limbs and other purposes. E. and E. E. Mueller. No. 1,008,048; Nov. 7; Sp. p. 863; Gaz. vol. 172; p. 139.
Hinge, Receptacle corner-. L. Mollart. No. 1,008,662; Nov. 14; Sp. p. 2349; Gaz. vol. 172; p. 397.
Hinge-seat cutter. J. Broadley. No. 1,012,241; Dec. 19; Sp. p. 4157; Gaz. vol. 173; p. 713.
Hinge, Self-closing. G. Hubert. No. 996,411; June 27; Sp. p. 5120; Gaz. vol. 167; p. 897.
Hinge, Silo-door. W. D. Plue. No. 1,003,065; Sept. 12; Sp. p. 1940; Gaz. vol. 170; p. 335.
Hinge, Spiral. H. W. Johnstone. No. 991,512; May 9; Sp. p. 1461; Gaz. vol. 166; p. 274.
Hinge, Spring-. E. Bommer. No. 981,053; Jan. 10; Sp. p. 2021; Gaz. vol. 162; p. 332.
Hinge, Spring-. A. Dice. No. 985,790; Mar. 7; Sp. p. 48; Gaz. vol. 164; p. 10.
Hinge, Spring-. W. J. Keene and G. W. Schuster. No. 998,692; July 25; Sp. p. 4557; Gaz. vol. 168; p. 830.
Hinge, Spring-. A. J. George. No. 1,000,254; Aug. 8; Sp. p. 2196; Gaz. vol. 169; p. 391.
Hinge, Spring door-. A. Falkenrath. No. 980,230; Jan. 3; Sp. p. 103; Gaz. vol. 162; p. 20.
Hinge, Storm-window. B. H. Phillipps. No. 1,004,813; Oct. 3; Sp. p. 569; Gaz. vol. 171; p. 93.
Hinge, Vertically-adjustable. W. F. Hunter. No. 983,553; Feb. 7; Sp. p. 661; Gaz. vol. 163; p. 101.
Hinge, Wind-shield. E. R. Cramer. No. 985,571; Feb. 28; Sp. p. 5035; Gaz. vol. 163; p. 890.
Hinge, Wind-shield. H. W. Rodenbeck. No. 991,026; May 2; Sp. p. 411; Gaz. vol. 166; p. 71.
Hinge, Wind-shield. A. J. Kraber and G. F. Ferrier. No. 999,040; July 25; Sp. p. 5363; Gaz. vol. 168; p. 954.
Hinges and the like, Machine for assembling the parts of butt-. H. Steller and R. Piepenstock. No. 1,006,698; Oct. 24; Sp. p. 4705; Gaz. vol. 171; p. 838.
Hinges in which the knuckles are rolled with their leaves, Manufacture of rolled. G. A. Parent and E. and L. Artusse. No. 1,011,998; Dec. 19; Sp. p. 3607; Gaz. vol. 173; p. 629.
Hinges provided with fastening-points, Machine for fixing. E. Riebel. No. 1,000,755; Aug. 15; Sp. p. 3321; Gaz. vol. 169; p. 599.
Hinged seat. E. G. Dann. No. 984,474; Feb. 14; Sp. p. 2622; Gaz. vol. 163; p. 443.
Hinging-machine. W. Edge. No. 983,429; Feb. 7; Sp. p. 363; Gaz. vol. 163; p. 60.
Hitch, Horse-. E. J. Aitken. No. 1,009,032; Nov. 21; Sp. p. 3139; Gaz. vol. 172; p. 557.
Hitching device. J. B. Plato. No. 986,591; Mar. 14; Sp. p. 1773; Gaz. vol. 164; p. 314.
Hitching device. I. K. Shero. No. 986,768; Mar. 14; Sp. p. 2148; Gaz. vol. 164; p. 374.
Hitching device. M. J. Grady. No. 1,012,840; Dec. 26; Sp. p. 5433; Gaz. vol. 173; p. 964.
Hitching device, Horse-. J. P., A., and C. Olson. No. 983,397; Feb. 7; Sp. p. 300; Gaz. vol. 163; p. 51.
Hive-switchboard. L. A. Simmon. No. 988,828; Apr. 4; Sp. p. 1143; Gaz. vol. 165; p. 183.
Hob-cutter. W. F. Zimmermann. No. 1,003,024; Sept. 12; Sp. p. 1865; Gaz. vol. 170; p. 322.
Hobby-horse, Rein-driven pedal-propelled. F. Magee. No. 990,997; May 2; Sp. p. 357; Gaz. vol. 166; p. 61.
Hod. T. B. Walsh. No. 991,118; May 2; Sp. p. 618; Gaz. vol. 166; p. 105.
Hod or bin for coal or other materials. L. Rosen. No. 1,001,691; Aug. 29; Sp. p. 5324; Gaz. vol. 169; p. 983.
Hod-stand. S. H. Moore. No. 1,000,284; Aug. 8; Sp. p. 2267; Gaz. vol. 169; p. 401.
Hoe. J. C. Gore. No. 992,867; May 23; Sp. p. 4371; Gaz. vol. 166; p. 803.
Hoe. J. H. Trigg. No. 996,686; July 4; Sp. p. 176; Gaz. vol. 168; p. 31.
Hoe. J. A. Hannegan. No. 1,004,253; Sept. 26; Sp. p. 4580; Gaz. vol. 170; p. 810.
Hoe. J. W. Carlock. No. 1,005,152; Oct. 10; Sp. p. 1235; Gaz. vol. 171; p. 231.
Hoe. W. S. Hales. No. 1,011,194; Dec. 12; Sp. p. 1784; Gaz. vol. 173; p. 311.
Hoe, Adjustable. O. S. Jennings. No. 984,817; Feb. 21; Sp. p. 3398; Gaz. vol. 163; p. 599.
Hoe and cultivator, Combined garden. E. C. Magoon. No. 1,003,481; Sept. 19; Sp. p. 2817; Gaz. vol. 170; p. 515.
Hoe and rake, Combined. H. L. McKibbin. No. 987,008; Mar. 14; Sp. p. 2629; Gaz. vol. 164; p. 454.
Hoe and weed-cutter, Combined. J. T. Wilson. No. 1,000,473; Aug. 15; Sp. p. 2690; Gaz. vol. 169; p. 499.
Hoe-clamp. E. D. Nugent. No. 991,352; May 2; Sp. p. 1127; Gaz. vol. 166; p. 188.
Hoe, Expanding horse-. J. Bain. No. 1,001,801; Aug. 29; Sp. p. 5563; Gaz. vol. 169; p. 1020.
Hoe, Seeding-. L. A. Sandoe. No. 991,653; May 9; Sp. p. 1774; Gaz. vol. 166; p. 325.
Hoe, Weeding-. C. F. Adams. No. 1,006,819; Oct. 24; Sp. p. 4983; Gaz. vol. 171; p. 882.
Hoes, Manufacturing. E. P. Alexander. No. 994,492; June 6; Sp. p. 792; Gaz. vol. 167; p. 135.
Hoeing-machine, Rotary. G. König. No. 983,242; Jan. 31; Sp. p. 6701; Gaz. vol. 162; p. 1163.
Hog-hoist. G. Schmidt. No. 996,799; July 4; Sp. p. 395; Gaz. vol. 168; p. 67.
Hog-ringer. T. J. Grizzle. No. 1,011,053; Dec. 5; Sp. p. 1426; Gaz. vol. 173; p. 227.
Hog-scalding trough. J. A. Douglas. No. 981,751; Jan. 17; Sp. p. 3506; Gaz. vol. 162; p. 594.

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Hog-scraper. T. Lebiedzinski. No. 990,754; Apr. 25; Sp. p. 5364; Gaz. vol. 165; p. 925.
Hog-scraper. J. W. Kohlhepp. No. 994,523; June 6; Sp. p. 862; Gaz. vol. 167; p. 145.
Hog-scraper, Automatically feeding and discharging. J. W. Kohlhepp. No. 1,002,921; Sept. 12; Sp. p. 1673; Gaz. vol. 170; p. 289.
Hog, sheep, and poultry fountain. A. A. Kramer. No. 983,375; Feb. 7; Sp. p. 257; Gaz. vol. 163; p. 43.
Hog-trough. C. L. Eyestone. No. 997,380; July 11; Sp. p. 1648; Gaz. vol. 168; p. 298.
Hoist. G. A. Jordan. No. 987,885; Mar. 28; Sp. p. 4513; Gaz. vol. 164; p. 815.
Hoist. H. L. McCoy and W. B. Boatright. No. 999,665; Aug. 1; Sp. p. 923; Gaz. vol. 169; p. 161.
Hoist and tractor-excavator, Tractor-. P. E. Holt. No. 1,008,338; Nov. 14; Sp. p. 1539; Gaz. vol. 172; p. 282.
Hoist, Automatic. G. C. Grable. No. 982,809; Jan. 31; Sp. p. 5778; Gaz. vol. 162; p. 1018.
Hoist for concrete and like material. C. E. Bathrick. No. 1,009,038; Nov. 21; Sp. p. 3151; Gaz. vol. 172; p. 559.
Hoist for concrete and the like. C. E. Bathrick. No. 1,009,037; Nov. 21; Sp. p. 3149; Gaz. vol. 172; p. 558.
Hoist, Freight-. R. W. Wetherill. No. 987,418; Mar. 21; Sp. p. 3507; Gaz. vol. 164; p. 627.
Hoist, Self-dumping. L. Callahan. No. 1,000,234; Aug. 8; Sp. p. 2160; Gaz. vol. 169; p. 384.
Hoisting and conveying apparatus. H. Weickel and R. K. Morse. No. 992,307; May 16; Sp. p. 3177; Gaz vol. 166; p. 577.
Hoisting and conveying apparatus. A. E. Norris. No. 995,707; June 20; Sp. p. 3510; Gaz. vol. 167; p. 619.
Hoisting and conveying apparatus. T. S. Miller. No. 1,000,537; Aug. 15; Sp. p. 2829; Gaz. vol. 169; p. 521.
Hoisting and conveying apparatus support. T. S. Miller and J. H. Dickinson. No. 984,230; Feb. 14; Sp. p. 2135; Gaz. vol. 163; p. 362.
Hoisting apparatus. A. E. Norris. No. 980,818; Jan. 3; Sp. p. 1364; Gaz. vol. 162; p. 219.
Hoisting apparatus. F. Fischer, Jr. No. 987,455; Mar. 21; Sp. p. 3591; Gaz. vol. 164; p. 639.
Hoisting apparatus. J. D. Williamson, Jr. No. 988,843; Apr. 4; Sp. p. 1170; Gaz. vol. 165; p. 187.
Hoisting apparatus. J. W. Hammond and J. F. Donahue. No. 991,059; May 2; Sp. p. 471; Gaz. vol. 166; p. 82.
Hoisting apparatus. A. E. Norris. No. 991,077; May 2; Sp. p. 516; Gaz. vol. 166; p. 89.
Hoisting apparatus. M. McIntyre. No. 1,004,451; Sept. 26; Sp. p. 4975; Gaz. vol. 170; p. 875.
Hoisting apparatus. A. E. Norris. No. 1,008,360; Nov. 14; Sp. p. 1606; Gaz. vol. 172; p. 290.
Hoisting apparatus. A. E. Norris. No. 1,008,361; Nov. 14; Sp. p. 1611; Gaz. vol. 172; p. 290.
Hoisting apparatus. C. K. Ernst. No. 1,013,005; Dec. 26; Sp. p. 5824; Gaz. vol. 173; p. 1018.
Hoisting apparatus and portable mount therefor. F. Sandwisch. No. 988,034; Mar. 28; Sp. p. 4876; Gaz. vol. 164; p. 867.
Hoisting-apparatus brake. J. A. Shepard. No. 990,914; May 2; Sp. p. 183; Gaz. vol. 166; p. 33.
Hoisting apparatus, Electrically-operated. F. E. Lutz. No. 996,267; June 27; Sp. p. 4768; Gaz. vol. 167; p. 845.
Hoisting apparatus, Safety device for alternating-current. W. N. Dickinson, Jr. No. 981,919; Jan. 17; Sp. p. 3901; Gaz. vol. 162; p. 655.
Hoisting-bucket. A. E. Norris. No. 992,799; May 23; Sp. p. 4205; Gaz. vol. 166; p. 777.
Hoisting device. W. M. Dillon and D. H. Little. No. 987,348; Mar. 21; Sp. p. 3357; Gaz. vol. 164; p. 603.
Hoisting device. A. E. Norris. No. 991,078; May 2; Sp. p. 520; Gaz. vol. 166; p. 90.
Hoisting device. L. Roman. No. 998,306; July 18; Sp. p. 3738; Gaz. vol. 168; p. 664.
Hoisting-drum. F. B. Close. No 997,903; July 11; Sp. p. 2793; Gaz. vol. 168; p. 477.
Hoisting-drums and winches, Attachment for. C. E. Frederickson. No. 1,000,084; Aug. 8; Sp. p. 1843; Gaz. vol. 169; p. 333.
Hoisting-engine, Pneumatic. J. S. Shields and W. Lamb. No. 986,949; Mar. 14; Sp. p. 2525; Gaz. vol. 164; p. 436.
Hoisting-hook, Safety. E. W. Purves. No. 1,010,952; Dec. 5; Sp. p. 1222; Gaz. vol. 173; p. 193.
Hoisting mechanism. R. Elder and W. T. Krausch. No. 1,007,343; Oct. 31; Sp. p. 6134; Gaz. vol. 171; p. 1119.
Hoisting mechanism. C. Pearson. No. 1,012,005; Dec. 19; Sp. p. 3626; Gaz. vol. 173; p. 632.
Hoisting-rigging. A. Olander. No. 980,330; Jan. 3; Sp. p. 297; Gaz. vol. 162; p. 53.
Holdback, Automatic detaching. O. F. Brown. No. 1,010,115; Nov. 28; Sp. p. 5443; Gaz. vol. 172; p. 976.
Holdback-strap adjuster. S. Blodgett. No. 983,972; Feb. 14; Sp. p. 1554; Gaz. vol. 163; p. 273.
Holder. A. S. Langille. No. 981,773; Jan. 17; Sp. p. 3555; Gaz. vol. 162; p. 603.
Holder. J. Kopsa. No. 998,015; July 18; Sp. p. 3065; Gaz. vol. 168; p. 559.
Holder and receptacle, Combined. A. and G. Gradel. No. 984,903; Feb. 21; Sp. p. 3550; Gaz. vol. 163; p. 627.
Holding and centering apparatus. R. C. Robinson. No. 981,117; Jan. 10; Sp. p. 2154; Gaz. vol. 162; p. 355.
Holding device. T. J. Williams. No. 1,000,868; Aug. 15; Sp. p. 3561; Gaz. vol. 169; p. 640.
Holding means. C. M. Turton. No. 989,085; Apr. 11; Sp. p. 1675; Gaz. vol. 165; p. 291.
Hole-digger. J. W. Foster. No. 1,006,642; Oct. 24; Sp. p. 4603; Gaz. vol. 171; p. 820.
Hollow bodies and especially of head-coverings from fibrous material, Manufacture of. R. Knoll. No. 993,605; May 30; Sp. p. 5957; Gaz. vol. 166; p. 1084.
Hollow bodies, Ledge-cover for. M. Schubert. No. 983,572; Feb. 7; Sp. p. 695; Gaz. vol. 163; p. 108.
Hollow bodies to metal plates, Securing thin-walled. P. Schickert. No. 1,010,960; Dec. 5; Sp. p. 1235; Gaz. vol. 173; p. 196.
Hollow bodies to plates, Attachment of thin-walled. P. Schickert. No. 993,883; May 30; Sp. p. 6552; Gaz. vol. 166; p. 1180.
Holster. H. E. Fourcher. No. 1,006,194; Oct. 17; Sp. p. 3574; Gaz. vol. 171; p. 633.
Holster, Automatic-gun. F. H. Audley. No. 996,694; July 4; Sp. p. 197; Gaz. vol. 168; p. 34.
Homogenizing-machine. A. Tebbit. No. 1,000,641; Aug. 15; Sp. p. 3091; Gaz. vol. 169; p. 560.
Honey, Preserving. C. W. Dayton. No. 1,000,240; Aug. 8; Sp. p. 2170; Gaz. vol. 169; p. 386.
Honey, Ripening extracted. C. W. Dayton. No. 1,000,239; Aug. 8; Sp., p. 2168; Gaz. vol. 169; p. 386.
Honey-uncapping machine. L. R. Ferguson. No. 989,138; Apr. 11; Sp. p. 1775; Gaz. vol. 165; p. 309.
Honeycomb-foundation starter. G. A. O. Boyum. No. 999,544; Aug. 1; Sp. p. 698; Gaz. vol. 169; p. 119.
Honeycombs, Capping shaver and melter for. E. Baker. No. 994,813; June 13; Sp. p. 1559; Gaz. vol. 167; p. 286.
Hood for capes or other garments. G. S. Andrus. No. 981,738; Jan. 17; Sp. p. 3484; Gaz. vol. 162; p. 590.
Hoof-trimmer. L. H. Krickel. No. 1,000,821; Aug. 15; Sp. p. 3456; Gaz. vol. 169; p. 623.
Hoof trimmer and cutter. H. F. Morris and B. F. Eaves. No. 989,793; Apr. 18; Sp. p. 3229; Gaz. vol. 165; p. 564.
Hoofs, Non-slip or protective device for animals'. G. N. Kinnell. No. 1,010,382; Nov. 28; Sp. p. 5989; Gaz. vol. 172; p. 1063.
Hook: *See* Automatically-releasing hook; Back-band hook; Bacon-hook; Bale-hook; Bill-hook; Boat-releasing hook; Butt-hook; Button-hook; Cable-hook; Check-hook; Conductor-hook; Coupling hook; Davit-hook; Fish-hook; Fish grab-hook; Garment-hook; Garment-supporter hook; Grab-hook; Harness-hook; Harness-supporting hook; Hoisting-hook; Lacing-hook; Logging-hook; Mail-hook; Painter's pot-hook; Pipe-hook; Printer's plate-hook; Printer's register-hook; Pruning-hook; Releasing-hook; Safety-hook; Sheep-hook; Snap-hook; Spread-hook; Spring-hook; Supporting-hook; Suspension-hook; Trolling-hook; Tug-hook; Weedless hook; Whiffletree-hook.
Hook. G. Herring. No. 982,604; Jan. 24; Sp. p. 5341; Gaz. vol. 162; p. 920.
Hook. J. C. Green. No. 988,088; Mar. 28; Sp. p. 4992; Gaz. vol. 164; p. 885.
Hook. A. A. Berger. No. 1,002,629; Sept. 5; Sp. p. 1008; Gaz. vol. 170; p. 150.
Hook. L. A. Lane. No. 1,002,852; Sept. 12; Sp. p. 1488; Gaz. vol. 170; p. 264.
Hook. J. R. Sherrod. No. 1,005,752; Oct. 10; Sp. p. 2584; Gaz. vol. 171; p. 445.
Hook and eye. J. L. Poalk. No. 983,167; Jan. 31; Sp. p. 6535; Gaz. vol. 162; p. 1136.
Hook and eye. E. J. Selden. No. 988,827; Apr. 4; Sp. p. 1142; Gaz. vol. 165; p. 183.
Hook and eye. L. Feingold. No. 991,287; May 2; Sp. p. 988; Gaz. vol. 166; p. 167.
Hook and eye. A. F. Wileman. No. 998,438; July 18; Sp. p. 4003; Gaz. vol. 168; p. 710.
Hook and eye. E. T. Lannon. No. 999,805; Aug. 8; Sp. p. 1213; Gaz. vol. 169; p. 238
Hook-fastener. S. B. Casey. No. 995,951; June 20; Sp. p. 4049; Gaz. vol. 167; p. 704.
Hook-making machine. J. T. Fagan. No. 1,002,662; Sept. 5; Sp. p. 1063; Gaz. vol. 170; p. 159.
Hoop: *See* Electrical hoop; Embroidery-hoop; Mast-hoop; Metallic hoop; Silo-hoop.
Hoop-clamp. W. H. Holmes. No. 1,001,848; Aug. 29; Sp. p. 5661; Gaz. vol. 169; p. 1036.
Hoop-driver. C. Winskill. No. 988,055; Mar. 28; Sp. p. 4923; Gaz. vol. 164; p. 874.
Hoop driver, Barrel-. J. E. Pettit. No. 1,009,563; Nov. 21; Sp. p. 4319; Gaz. vol. 172; p. 744.
Hoop-driving machine, Barrel-. W. C. Stevens and A. MacGregor. No. 1,008,570; Nov. 14; Sp. p. 2139; Gaz. vol. 172; p. 364.
Hoop-fastening tool, Wire-. J. C. Bright. No. 1,005,804; Oct. 17; Sp. p. 2699; Gaz. vol. 171; p. 494.
Hoop-making machine. M. L. Keagy. No. 995,604; June 20; Sp. p. 3306; Gaz. vol. 167; p. 583.
Hoop-retainer. M. Gilger. No. 1,012,839; Dec. 26; Sp. p. 5432; Gaz. vol. 173; p. 963.
Hoop-scraping apparatus, Metal-. I. L. Hughes. No. 988,712; Apr. 4; Sp. p. 919; Gaz. vol. 165; p. 145.
Hoop-stapling machine. M. E. Lobley. No. 989,528; Apr. 11; Sp. p. 2620; Gaz. vol. 165; p. 442.

Hop-picker. E. C. Horst. No. 1,008,914; Nov. 14; Sp. p. 2858; Gaz. vol. 172; p. 481.
Hop-picker's guard. E. C. Horst. No. 1,012,135; Dec. 19; Sp. p. 3921; Gaz. vol. 173; p. 678.
Hop-picker's guard. E. C. Horst. No. 1,012,136; Dec. 19; Sp. p. 3923; Gaz. vol. 173; p. 678.
Hop-picker's guard. E. C. Horst. No. 1,012,137; Dec. 19; Sp. p. 3924; Gaz. vol. 173; p. 678.
Hop-straining device. G. E. Laubenheimer. No. 984,434; Feb. 14; Sp. p. 2537; Gaz. vol. 163; p. 429.
Hops, Extracting. G. G. Smith. No. 992,275; May 16; Sp. p. 3103; Gaz. vol. 166; p. 565.
Hopper. H. W. Welsh. No. 987,517; Mar. 21; Sp. p. 3698; Gaz. vol. 164; p. 660.
Hopper. F. R. McCune. No. 988,482; Apr. 4; Sp. p. 410; Gaz. vol. 165; p. 66.
Hopper, Automatic feeding-. N. F. M. Wilson. No. 1,004,328; Sept. 26; Sp. p. 4716; Gaz. vol. 170; p. 834.
Hopper, Charging-. G. M. S. Tait. No. 992,697; May 16; Sp. p. 3993; Gaz. vol. 166; p. 712.
Hopper, Distributing-. E. A. Munn and O. L. Plumtree. No. 983,923; Feb. 14; Sp. p. 1463; Gaz. vol. 163; p. 258.
Hopper, Dry-food. W. A. Sexton. No. 998,410; July 18; Sp. p. 3956; Gaz. vol. 168; p. 701.
Hopper, Dumping-. C. Kuhn. No. 984,010; Feb. 14; Sp. p. 1660; Gaz. vol. 163; p. 286.
Hopper mechanism. R. L. Wilcox No. 1,001,791; Aug. 29; Sp. p. 5534; Gaz. vol. 169; p. 1016.
Hopple. J. L. and E. C. Terry. No. 985,472; Feb. 28; Sp. p. 4822; Gaz. vol. 163; p. 857.
Hopple. N. Morgan. No. 992,026; May 9; Sp. p. 2524; Gaz. vol. 166; p. 449.
Horn. G. L. Stevenson. No. 997,870; July 11; Sp. p. 2717; Gaz. vol. 168; p. 466.
Horn and other article constructed from flexible tubing. E. Rubes. No. 992,259; May 16; Sp. p. 3074; Gaz. vol. 166; p. 560.
Horn, Electric. J. Lanz. No. 981,864; Jan. 17; Sp. p. 3758; Gaz. vol. 162; p. 635.
Horn for cycles, motor-cars, and the like. A. H. Feugueur. No. 993,233; May 23; Sp. p. 5137; Gaz. vol. 166; p. 925.
Horn for motor-vehicles and other purposes. F. Berton. No. 992,152; May 16; Sp. p. 2809; Gaz. vol. 166; p. 523.
Horn for use on motor-cars and the like. B. Swan and E. E. Stuart. No. 987,772; Mar. 28; Sp. p. 4257; Gaz. vol. 164; p. 776.
Horn-reed, Automobile. F. Bishop. No. 994,498; June 6; Sp. p. 814; Gaz. vol. 167; p. 137.
Horn, Signaling-. A. A. Kent. No. 1,001,046; Aug. 22; Sp. p. 3997; Gaz. vol. 169; p. 735.
Horns, Construction of warning-. F. Berton. No. 993,336; May 30; Sp. p. 5372; Gaz. vol. 166; p. 993.
Horns, Mouthpiece for. R. Bailey. No. 1,003,578; Sept. 19; Sp. p. 3046; Gaz. vol. 170; p. 549.
Horns, Pneumatic bulb for. J. A. Broadfield. No. 994,118; June 6; Sp. p. 32; Gaz. vol. 167; p. 8.
Horse, Adjustable. S. Pichler. No. 984,845; Feb. 21; Sp. p. 3446; Gaz. vol. 163; p. 608.
Horse, Adjustable. S. Pichler. No. 984,846; Feb. 21; Sp. p. 3447; Gaz. vol. 163; p. 609.
Horse-blanket fastener. S. S. Smith. No. 997,018; July 4; Sp. p. 911; Gaz. vol. 168; p. 144.
Horse-boot. F. R. and L. H. Davis. No. 996,566; June 27; Sp. p. 5409; Gaz. vol. 167; p. 946.
Horse-boot. M. J. Brassell. No. 997,487; July 11; Sp. p. 1843; Gaz. vol. 168; p. 332.
Horse-boot. M. Garside. No. 1,010,745; Dec. 5; Sp. p. 777; Gaz. vol. 173; p. 121.
Horse-boot, Antislipping. W. H. Stahl. No. 984,166; Feb. 14; Sp. p. 1969; Gaz. vol. 163; p. 338.
Horse-cleaner. F. Daly. No. 996,221; June 27; Sp. p. 4656; Gaz. vol. 167; p. 831.
Horse-controller. F. E. Fingarlos. No. 1,010,485; Dec. 5; Sp. p. 188; Gaz. vol. 173; p. 31.
Horse-detacher. H. C. Langlois. No. 982,144; Jan. 17; Sp. p. 4372; Gaz. vol. 162; p. 731.
Horse-detacher. S. Smith. No. 989,200; Apr. 11; Sp. p. 1903; Gaz. vol. 165; p. 330.
Horse-detacher. A. A. Sonak. No. 990,019; Apr. 18; Sp. p. 3701; Gaz. vol. 165; p. 641.
Horse-detacher. W. Farmer. No. 993,044; May 23; Sp. p. 4754; Gaz. vol. 166; p. 865.
Horse-detacher. J. M. Lindsey. No. 994,172; June 6; Sp. p. 144; Gaz. vol. 167; p. 25.
Horse-detacher. W. A. Craig. No. 1,001,731; Aug. 29; Sp. p. 5398; Gaz. vol. 169; p. 996.
Horse-detacher. A. R. Mebane. No. 1,002,170; Aug. 29; Sp. p. 6315; Gaz. vol. 169; p. 1141.
Horse-detacher. A. W. Tool. No. 1,003,073; Sept. 12; Sp. p. 1953; Gaz. vol. 170; p. 338.
Horse-detacher. R. T. Conner. No. 1,003,343; Sept. 12; Sp. p. 2536; Gaz. vol. 170; p. 436.
Horse-detacher. O. F. Brown. No. 1,003,698; Sept. 19; Sp. p. 3306; Gaz. vol. 170; p. 592.
Horse-detacher. J. P. Lunati. No. 1,010,284; Nov. 28; Sp. p. 5787; Gaz. vol. 172; p. 1031.
Horse-detaching device. R. H. Richardson. No. 997,007; July 4; Sp. p. 887; Gaz. vol. 168; p. 141.
Horse-detaching device. F. P. Gable and A. C. Buttman. No. 1,006,842; Oct. 24; Sp. p. 5049; Gaz. vol. 171; p. 890.
Horse-gag. C. Lau. No. 982,075; Jan. 17; Sp. p. 4253; Gaz. vol. 162; p. 708.
Horse-gag. C. Lau. No. 1,006,959; Oct. 24; Sp. p. 5290; Gaz. vol. 171; p. 930.
Horse-groomer's gearing. G. F. Press. No. 982,868; Jan. 31; Sp. p. 5915; Gaz. vol. 162; p. 1038.
Horse-holder. J. T. Wallis. No. 986,879; Mar. 14; Sp. p. 2391; Gaz. vol. 164; p. 414.
Horse-overshoe. C. A. Conover. No. 986,964; Mar. 14; Sp. p. 2546; Gaz. vol. 164; p. 441.
Horse-overshoe. J. F. Herman. No. 991,778; May 9; Sp. p. 2026; Gaz. vol. 166; p. 365.
Horse-overshoe. Z. Mangum. No. 991,864; May 9; Sp. p. 2211; Gaz. vol. 166; p. 395.
Horse-overshoe. A. Finsel. No. 994,253; June 6; Sp. p. 314; Gaz. vol. 167; p. 54.
Horse-overshoe. G. N. Kinnell. No. 1,010,380; Nov. 28; Sp. p. 5982; Gaz. vol. 172; p. 1062.
Horse-overshoe support. G. N. Kinnell. No. 1,010,381; Nov. 28; Sp. p. 5987; Gaz. vol. 172; p. 1062.
Horse-power. J. K. Boland. No. 996,965; July 4; Sp. p. 767; Gaz. vol. 168; p. 125.
Horse-releaser. R. L. Taylor. No. 981,496; Jan. 10; Sp. p. 2994; Gaz. vol. 162; p. 487.
Horse-releaser. C. Sowards. No. 986,097; Mar. 7; Sp. p. 727; Gaz. vol. 164; p. 117.
Horse-releaser. H. W. Floyd. No. 1,005,631; Oct. 10; Sp. p. 2341; Gaz. vol. 171; p. 402.
Horse-stopping device, Runaway-. J. Rinaldi. No. 987,600; Mar. 21; Sp. p. 3865; Gaz. vol. 164; p. 689.
Horses, Ice-boot for. V. W. Thomas. No. 984,617; Feb. 21; Sp. p. 2975; Gaz. vol. 163; p. 528.
Horsehair from a bundle to a wrapping device, Apparatus for feeding. O. Hänsel. No. 986,386; Mar. 7; Sp. p. 1325; Gaz. vol. 164; p. 213.
Horseshoe. J. McDermott. No. 980,655; Jan. 3; Sp. p. 1053; Gaz. vol. 162; p. 166.
Horseshoe. E. F. Brannon. No. 981,054; Jan. 10; Sp. p. 2025; Gaz. vol. 162; p. 333.
Horseshoe. A. Fuchs and F. Tillmanns. No. 981,754; Jan. 17; Sp. p. 3514; Gaz. vol. 162; p. 595.
Horseshoe. A. Butschko. No. 985,249; Feb. 28; Sp. p. 4318; Gaz. vol. 163; p. 780.
Horseshoe. C. S. Cook. No. 985,250; Feb. 28; Sp. p. 4319; Gaz. vol. 163; p. 780.
Horseshoe. A. Roth, Jr. No. 986,220; Mar. 7; Sp. p. 960; Gaz. vol. 164; p. 156.
Horseshoe. T. F. and D. F. Farley. No. 986,914; Mar. 14; Sp. p. 2460; Gaz. vol. 164; p. 425.
Horseshoe. J. H. Kieffer. No. 991,211; May 2; Sp. p. 823; Gaz. vol. 166; p. 139.
Horseshoe. J. Grabb. No. 993,055; May 23; Sp. p. 4778; Gaz. vol. 166; p. 869.
Horseshoe. W. W. Sims. No. 995,190; June 13; Sp. p. 2375; Gaz. vol. 167; p. 411.
Horseshoe. J. A. Choma. No. 996,455; June 27; Sp. p. 5201; Gaz. vol. 167; p. 912.
Horseshoe. G. W. Mooers. No. 998,196; July 18; Sp. p. 3450; Gaz. vol. 168; p. 622.
Horseshoe. J. Popiel and J. Urbanski. No. 999,255; Aug. 1; Sp. p. 126; Gaz. vol. 169; p. 23.
Horseshoe. N. Sawicki. No. 1,000,951; Aug. 15; Sp. p. 3726; Gaz. vol. 169; p. 667.
Horseshoe. E. Matthews. No. 1,003,117; Sept. 12; Sp. p. 2062; Gaz. vol. 170; p. 355.
Horseshoe. M. Goldberg. No. 1,008,133; Nov. 7; Sp. p. 1041; Gaz. vol. 172; p. 169.
Horseshoe. W. E. Spangler. No. 1,008,214; Nov. 7; Sp. p. 1218; Gaz. vol. 172; p. 199.
Horseshoe and calk therefor. J. W. Miller. No. 984,385; Feb. 14; Sp. p. 2449; Gaz. vol. 163; p. 414.
Horseshoe antislipping attachment. S. A. Fritz. No. 981,632; Jan. 17; Sp. p. 3273; Gaz. vol. 162; p. 555.
Horseshoe antislipping device. J. Bindon. No. 1,003,324; Sept. 12; Sp. p. 2496; Gaz. vol. 170; p. 430.
Horseshoe antislipping device. C. F. Griffing. No. 1,009,240; Nov. 21; Sp. p. 3609; Gaz. vol. 172; p. 630.
Horseshoe attachment. F. R. Hatch. No. 981,559; Jan. 10; Sp. p. 3113; Gaz. vol. 162; p. 508.
Horseshoe attachment. J. A. Dann. No. 988,980; Apr. 11; Sp. p. 1440; Gaz. vol. 165; p. 254.
Horseshoe attachment. C. Lindemann. No. 993,848; May 30; Sp. p. 6490; Gaz. vol. 166; p. 1169.
Horseshoe attachment. P. C. Dean. No. 998,329; July 18; Sp. p. 3784; Gaz. vol. 168; p. 673.
Horseshoe, Auxiliary. P. W. Zeller. No. 989,469; Apr. 11; Sp. p. 2484; Gaz. vol. 165; p. 421.
Horseshoe, Auxiliary. W. F. Custer. No. 1,000,327; Aug. 8; Sp. p. 2344; Gaz. vol. 169; p. 415.
Horseshoe-calk. J. P. Van Wyck. No. 986,956; Mar. 14; Sp. p. 2535; Gaz. vol. 164; p. 438.
Horseshoe-calk. G. V. Owen. No. 989,866; Apr. 18; Sp. p. 3373; Gaz. vol. 165; p. 589.
Horseshoe-calk. R. C. Watrous. No. 999,685; Aug. 1; Sp. p. 961; Gaz. vol. 169; p. 168.
Horseshoe-calk. R. D. Sterling. No. 1,005,580; Oct. 10; Sp. p. 2237; Gaz. vol. 171; p. 386.

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Horseshoe-calk. J. W. Fisher. No. 1,005,949; Oct. 17; Sp. p. 3037; Gaz. vol. 171; p. 547.
Horseshoe-calk. J. H. Hershberger. No. 1,010,048; Nov. 28; Sp. p. 5313; Gaz. vol. 172; p. 953.
Horseshoe-calk attachment. W. E. Ward. No. 988,525; Apr. 4; Sp. p. 503; Gaz. vol. 165; p. 80.
Horseshoe calk or creeper attachment. J. J. Connor. No. 1,001,252; Aug. 22; Sp. p. 4415; Gaz. vol. 169; p. 802.
Horseshoe-calk, Removable. W. H. Kern. No. 988,351; Apr. 4; Sp. p. 125; Gaz. vol. 165; p. 23.
Horseshoe-calk, Removable. H. D. Wendt. No. 992,090; May 9; Sp. p. 2644; Gaz. vol. 166; p. 471.
Horseshoe-calk, Removable. L. Wessels and J. B. Lau. No. 1,006,158; Oct. 17; Sp. p. 3493; Gaz. vol. 171; p. 619.
Horseshoe-calk, Self-sharpening. R. W. Comstock, Jr. No. 999,700; Aug. 1; Sp. p. 987; Gaz. vol. 169; p. 172.
Horseshoe-clip-forming machine. R. Grosdidier. No. 981,999; Jan. 17; Sp. p. 4098; Gaz. vol. 162; p. 683.
Horseshoe-creeper device. G. and J. Meyer. No. 1,007,226; Oct. 31; Sp. p. 5905; Gaz. vol. 171; p. 1077.
Horseshoe, Elastic. F. D. Veale. No. 1,000,215; Aug. 8; Sp. p. 2127; Gaz. vol. 169; p. 378.
Horseshoe, Emergency-. G. D. Snell. No. 992,278; May 16; Sp. p. 3108; Gaz. vol. 166; p. 566.
Horseshoe-forming machine. A. J. Range. No. 980,674; Jan. 3; Sp. p. 1085; Gaz. vol. 162; p. 173.
Horseshoe-making machine. E. V. Gandil. No. 998,287; July 18; Sp. p. 3687; Gaz. vol. 168; p. 657.
Horseshoe-making machine. J. A. McLaughlin. No. 1,010,934; Dec. 5; Sp. p. 1192; Gaz. vol. 173; p. 187.
Horseshoe-nail. A. Moller. No. 981,458; Jan. 10; Sp. p. 2931; Gaz. vol. 162; p. 474.
Horseshoe-nails, Making. A. Moller. No. 1,006,585; Oct. 24; Sp. p. 4496; Gaz. vol. 171; p. 801.
Horseshoe-pad. C. E. Pearl. No. 997,323; July 11; Sp. p. 1535; Gaz. vol. 168; p. 279.
Horseshoe-spreader. A. Ballmer. No. 1,006,345; Oct. 17; Sp. p. 3923; Gaz. vol. 171; p. 685.
Horseshoes, Antislipping attachment for. L. P. N. Smith. No. 1,001,318; Aug. 22; Sp. p. 4568; Gaz. vol. 169; p. 826.
Horseshoes, Apparatus for the preparation of. H. Vosberg. No. 983,522; Feb. 7; Sp. p. 564; Gaz. vol. 163; p. 90.
Horseshoes, Applying calks to. E. D. Chaninel and J. R. Henry. No. 1,008,785; Nov. 14; Sp. p. 2621; Gaz. vol. 172; p. 439.
Horseshoes, Bur-removing punch for. G. E. Holton. No. 983,997; Feb. 14; Sp. p. 1638; Gaz. vol. 163; p. 282.
Horseshoes, Sandal for. J. B. Kopf. No. 998,349; July 18; Sp. p. 3828; Gaz. vol. 168; p. 680.
Horseshoes, Sanitary antislipping attachment for. H. L. Gottesburen. No. 1,008,901; Nov. 14; Sp. p. 2838; Gaz. vol. 172; p. 477.
Horseshoeing-rack. E. Tessier. No. 988,407; Apr. 4; Sp. p. 255; Gaz. vol. 165; p. 41.
Horseshoer. J. C. Hancock. No. 980,249; Jan. 3; Sp. p. 135; Gaz. vol. 162; p. 26.
Horticultural implement. I. Gregory. No. 1,011,947; Dec. 19; Sp. p. 3485; Gaz. vol. 173; p. 610.
Hose. G. E. Preston. No. 988,384; Apr. 4; Sp. p. 206; Gaz. vol. 165; p. 34.
Hose. E. T. Greenfield. No. 995,453; June 20; Sp. p. 2960; Gaz. vol. 167; p. 528.
Hose. E. T. Greenfield. No. 1,001,842; Aug. 29; Sp. p. 5649; Gaz. vol. 169; p. 1034.
Hose and gasket. A. P. Miller. No. 994,861; June 13; Sp. p. 1688; Gaz. vol. 167; p. 302.
Hose appliance. R. M. Dixon No. 1,004,634; Oct. 3; Sp. p. 183; Gaz. vol. 171; p. 32.
Hose, Armored. J. J. Mulconroy and E. S. Morris. No. 996,999; July 4; Sp. p. 862; Gaz. vol. 168; p. 138.
Hose attachment. H. H. Miller. No. 989,386; Apr. 11; Sp. p. 2321; Gaz. vol. 165; p. 392.
Hose-band. G. Ferguson. No. 993,444; May 30; Sp. p. 5607; Gaz. vol. 166; p. 1028.
Hose-bridge. J. J. Bardon. No. 982,924; Jan. 31; Sp. p. 6034; Gaz. vol. 162; p. 1056.
Hose-bridge. J. J. Armstrong. No. 995,940; June 20; Sp. p. 4030; Gaz. vol. 167; p. 701.
Hose-clamp. A. G. Catelain. No. 991,769; May 9; Sp. p. 2011; Gaz. vol. 166; p. 362.
Hose-clamp. H. R. Francis. No. 996,478; June 27; Sp. p. 5244; Gaz. vol. 167; p. 919.
Hose-clamp. J. J. Higgins. No. 1,008,909; Nov. 14; Sp. p. 2848; Gaz. vol. 172; p. 479.
Hose clamp and holder. W. H. Gleeson. No. 1,008,027; Nov. 7; Sp. p. 823; Gaz. vol. 172; p. 131.
Hose clamp and support. A. R. McCormick. No. 989,382; Apr. 11; Sp. p. 2312; Gaz. vol. 165; p. 391.
Hose-clamp-applying tool. M. O. Lewis. No. 989,855; Apr. 18; Sp. p. 3357; Gaz. vol. 165; p. 585.
Hose, Combined strainer and coupling for pneumatic. V. Z. Caracristi. No. 993,152; May 23; Sp. p. 4981; Gaz. vol. 166; p. 901.
Hose connection. I. H. Spencer. No. 980,355; Jan. 3; Sp. p. 348; Gaz. vol. 162; p. 63.
Hose connection. I. H. Spencer. No. 981,705; Jan. 17; Sp. p. 3418; Gaz. vol. 162; p. 578.
Hose connection. C. D. Myer. No. 1,006,671; Oct. 24; Sp. p. 4660; Gaz. vol. 171; p. 830.
Hose-connector. E. J. Rohrbacher. No. 995,185; June 13; Sp. p. 2367; Gaz. vol. 167; p. 410.
Hose-connector. C. J. Kintner. No. 1,000,414; Aug. 15; Sp. p. 2566; Gaz. vol. 169; p. 478.
Hose constructed of laminated cohesive interwound members with variably-expansible zones. L. A. Subers. No. 1,010,088; Nov. 28; Sp. p. 5394; Gaz. vol. 172; p. 966.
Hose-coupling. S. M. Rhoads. No. 980,677; Jan. 3; Sp. p. 1093; Gaz. vol. 162; p. 174.
Hose-coupling. S. R. Lockhart. No. 981,866; Jan. 17; Sp. p. 3765; Gaz. vol. 162; p. 636.
Hose-coupling. J. E. W. Boesch. No. 983,671; Feb. 7; Sp. p. 901; Gaz. vol. 163; p. 143.
Hose-coupling. H. W. Thomas. No. 987,026; Mar. 14; Sp. p. 2657; Gaz. vol. 164; p. 459.
Hose-coupling. O. A. Hodinger. No. 987,463; Mar. 21; Sp. p. 3608; Gaz. vol. 164; p. 642.
Hose-coupling. E. S. Hall. No. 989,251; Apr. 11; Sp. p. 2027; Gaz. vol. 165; p. 347.
Hose-coupling. W. J. Rolle. No. 991,374; May 2; Sp. p. 1174; Gaz. vol. 166; p. 196.
Hose-coupling. H. W. Peterson. No. 992,050; May 9; Sp. p. 2569; Gaz. vol. 166; p. 457.
Hose-coupling. C. F. W. Lasch. No. 992,680; May 16; Sp. p. 3959; Gaz. vol. 166; p. 706.
Hose-coupling. W. J. and J. H. Yancey. No. 994,230; June 6; Sp. p. 264; Gaz. vol. 167; p. 45.
Hose-coupling. F. Davis. No. 994,723; June 13; Sp. p. 1364; Gaz. vol. 167; p. 255.
Hose-coupling. J. Lehmann and M. Woltek. No. 994,762; June 13; Sp. p. 1457; Gaz. vol. 167; p. 268.
Hose-coupling. C. Hill. No. 995,966; June 20; Sp. p. 4078; Gaz. vol. 167; p. 709.
Hose-coupling. J. Greenlund. No. 996,079; June 27; Sp. p. 4316; Gaz. vol. 167; p. 783.
Hose-coupling. J. J. McCarthy. No. 997,633; July 11; Sp. p. 2160; Gaz. vol. 168; p. 383.
Hose-coupling. F. Robinson. No. 997,855; July 11; Sp. p. 2683; Gaz. vol. 168; p. 461.
Hose-coupling. T. N. Jones. No. 999,169; July 25; Sp. p. 5593; Gaz. vol. 168; p. 995.
Hose-coupling. E. E. Allbee and G. E. Hulse. No. 1,000,570; Aug. 15; Sp. p. 2914; Gaz. vol. 169; p. 534.
Hose-coupling. F. A. Schneider. No. 1,001,994; Aug. 29; Sp. p. 5996; Gaz. vol. 169; p. 1085.
Hose-coupling. J. C. Gribben. No. 1,002,264; Sept. 5; Sp. p. 175; Gaz. vol. 170; p. 22.
Hose-coupling. S. F. Estell and A. D. Westbrook. No. 1,006,190; Oct. 17; Sp. p. 3567; Gaz. vol. 171; p. 631.
Hose-coupling. W. T. Boyd. No. 1,007,326; Oct. 31; Sp. p. 6107; Gaz. vol. 171; p. 1112.
Hose-coupling. J. J. Cochran. No. 1,010,236; Nov. 28; Sp. p. 5678; Gaz. vol. 172; p. 1016.
Hose-coupling. R. H. Utz and H. F. Grahl. No. 1,011,284; Dec. 12; Sp. p. 2003; Gaz. vol. 173; p. 344.
Hose-coupling. J. Beauchesne, Jr. No. 1,012,121; Dec. 19; Sp. p. 3891; Gaz. vol. 173; p. 673.
Hose coupling and valve, Combination. O. W. Thomas. No. 1,000,642; Aug. 15; Sp. p. 3092; Gaz. vol. 169; p. 561.
Hose-coupling-applying implement. W. Tankersley. No. 994,664; June 6; Sp. p. 1194; Gaz. vol. 167; p. 194.
Hose coupling, Automatic car-. F. G. Rux. No. 988,511; Apr. 4; Sp. p. 466; Gaz. vol. 165; p. 75.
Hose-coupling implement. D. D. Strong. No. 1,001,321; Aug. 22; Sp. p. 4575; Gaz. vol. 169; p. 827.
Hose-coupling metal protector. G. S. Wood. No. 984,876; Feb. 21; Sp. p. 3501; Gaz. vol. 163; p. 619.
Hose coupling, Suction-. G. M. Kessler. No. 1,009,907; Nov. 28; Sp. p. 5006; Gaz. vol. 172; p. 904.
Hose-drier. B. M. Welhite and F. I. Letson. No. 984,725; Feb. 21; Sp. p. 3210; Gaz. vol. 163; p. 568.
Hose-holder. J. Doherty. No. 980,895; Jan. 3; Sp. p. 1561; Gaz. vol. 162; p. 247.
Hose-holder. H. J. M. Howard. No. 980,954; Jan. 10; Sp. p. 1720; Gaz. vol. 162; p. 297.
Hose-holder. J. A. Darst and M. Brittain. No. 996,464; June 27; Sp. p. 5217; Gaz. vol. 167; p. 914.
Hose-marking apparatus, Rubber-. C. D. Garretson. No. 995,783; June 20; Sp. p. 3701; Gaz. vol. 167; p. 645.
Hose, Marking rubber. C. D. Garretson. No. 995,782; June 20; Sp. p. 3696; Gaz. vol. 167; p. 645.
Hose, Metallic. E. Witzenmann. No. 996,899; July 4; Sp. p. 620; Gaz. vol. 168; p. 102.
Hose, Metallic spiral. E. Witzenmann. No. 993,934; May 30; Sp. p. 6641; Gaz. vol. 166; p. 1196.
Hose nipple attachment, Rubber-. J. S. Patterson. No. 986,081; Mar. 7; Sp. p. 695; Gaz. vol. 164; p. 111.
Hose-nozzle. A. Tregoning. No. 981,956; Jan. 17; Sp. p. 4007; Gaz. vol. 162; p. 668.
Hose-nozzle. F. Wheatley. No. 992,314; May 16; Sp. p. 3194; Gaz. vol. 166; p. 580.
Hose-nozzle and sprinkler. J. H. Bolitho. No. 993,498; May 30; Sp. p. 5730; Gaz. vol. 166; p. 1047.
Hose-nozzle, Automatically-closing. W. H. Canner. No. 1,011,314; Dec. 12; Sp. p. 2072; Gaz. vol. 173; p. 354.
Hose-nozzle, Convertible. W. H. Canner. No. 1,011,315; Dec. 12; Sp. p. 2074; Gaz. vol. 173; p. 355.

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Hose-nozzle, Expansible. W. H. Canner. No. 1,011,316; Dec. 12; Sp. p. 2077; Gaz. vol. 173; p. 356.
Hose nozzle-holder, Garden-. T. N. Jones. No. 994,005; May 30; Sp. p. 6801; Gaz. vol. 166; p. 1221.
Hose or nozzle holder. G. Habig. No. 982,597; Jan. 24; Sp. p. 5323; Gaz. vol. 162; p. 918.
Hose-patch and applying-tool. B. Hoover. No. 987,230; Mar. 21; Sp. p. 3105; Gaz. vol. 164; p. 563.
Hose-pipe. J. W. Shaw. No. 989,304; Apr. 11; Sp. p. 2143; Gaz. vol. 165; p. 366.
Hose-protector. P. A. Dinardo. No. 991,201; May 2; Sp. p. 796; Gaz. vol. 166; p. 135.
Hose-rack. H. C. Dodge. No. 980,217; Jan. 3; Sp. p. 82; Gaz. vol. 162; p. 16.
Hose-rack. W. D. Allen. No. 984,060; Feb. 14; Sp. p. 1766; Gaz. vol. 163; p. 304.
Hose-rack. C. and R. Nuhring. No. 1,004,461; Sept. 26; Sp. p. 4998; Gaz. vol. 170; p. 879.
Hose-reel. J. Frigon. No. 988,766; Apr. 4; Sp. p. 1028; Gaz. vol. 165; p. 163.
Hose-reel. B. H. Montgomery. No. 994,025; May 30; Sp. p. 6838; Gaz. vol. 166; p. 1227.
Hose-reel. J. Martyn. No. 1,010,656; Dec. 5; Sp. p. 563; Gaz. vol. 173; p. 90.
Hose-reel. E. Anderson. No. 1,011,397; Dec. 12; Sp. p. 2240; Gaz. vol. 173; p. 382.
Hose-reel, automatic water-discharger, and fire-alarm, Combined. A. A. Hein. No. 985,029; Feb. 21; Sp. p. 3793; Gaz. vol. 163; p. 670.
Hose reel, Garden-. M. G. Newton. No. 990,453; Apr. 25; Sp. p. 4686; Gaz. vol. 165; p. 824.
Hose-repairer. T. H. Wieder. No. 985,648; Feb. 28; Sp. p. 5184; Gaz. vol. 163; p. 917.
Hose shut-off. D. S. Kellam. No. 985,811; Mar. 7; Sp. p. 85; Gaz. vol. 164; p. 18.
Hose spraying attachment, Garden-. G. Olney. No. 994,780; June 13; Sp. p. 1495; Gaz. vol. 167; p. 275.
Hose-support. T. J. Glover and J. B. Laber. No. 994,455; June 6; Sp. p. 722; Gaz. vol. 167; p. 123.
Hose-supporter. J. B. Moses. No. 989,024; Apr. 11; Sp. p. 1541; Gaz. vol. 165; p. 270.
Hose-supporter. S. Florsheim. No. 992,180; May 16; Sp. p. 2862; Gaz. vol. 166; p. 533.
Hose-supporter. E. L. Scott. No. 998,992; July 25; Sp. p. 5258; Gaz. vol. 168; p. 937.
Hose-supporter. S. T. Shephard. No. 1,011,865; Dec. 12; Sp. p. 3288; Gaz. vol. 173; p. 546.
Hose-supporter and fastener for corsets, &c. C. H. Clark. No. 985,565; Feb. 28; Sp. p. 5018; Gaz. vol. 163; p. 888.
Hose-supporter clasp. B. F. Orewiler. No. 1,012,422; Dec. 19; Sp. p. 4513; Gaz. vol. 173; p. 773.
Hose-supporter loop. J. H. Pilkington. No. 1,003,788; Sept. 19; Sp. p. 3493; Gaz. vol. 170; p. 622.
Hose-tie wrench. S. Schlangen. No. 1,012,282; Dec. 19; Sp. p. 4238; Gaz. vol. 173; p. 727.
Hosiery. R. C. Blood. No. 996,964; July 4; Sp. p. 766; Gaz. vol. 168; p. 125.
Hosiery-frame, Straight. T. Lieberknecht. No. 981,663; Jan. 17; Sp. p. 3321; Gaz. vol. 162; p. 564.
Hospital appliance. L. P. Parkhurst. No. 999,855; Aug. 8; Sp. p. 1318; Gaz. vol. 169; p. 254.
Hot-air engine. J. Kuhajda. No. 1,010,153; Nov. 28; Sp. p. 5510; Gaz. vol. 172; p. 987.
Hot-air furnace. J. Preuss. No. 983,566; Feb. 7; Sp. p. 686; Gaz. vol. 163; p. 106.
Hot-air furnace. W. R. Knights. No. 988,356; Apr. 4; Sp. p. 132; Gaz. vol. 165; p. 24.
Hot-air intake. E. H. Bullert. No. 986,357; Mar. 7; Sp. p. 1259; Gaz. vol. 164; p. 203.
Hot-air producer and blower. A. Schaeffer. No. 999,880; Aug. 8; Sp. p. 1367; Gaz. vol. 169; p. 263.
Hot-air register. L. Gschwind. No. 996,581; June 27; Sp. p. 5448; Gaz. vol. 167; p. 952.
Hot-air register. J. B. Mathews. No. 997,146; July 4; Sp. p. 1166; Gaz. vol. 168; p. 187.
Hot-water-bag heater. T. E. Fogalsang and B. McCutcheon. No. 1,002,253; Sept. 5; Sp. p. 152; Gaz. vol. 170; p. 19.
Hot-water bottle. D. P. Lamb. No. 996,350; June 27; Sp. p. 4966; Gaz. vol. 167; p. 874.
Hot-water heater. A. Kamenetzky No. 989,264; Apr. 11; Sp. p. 2062; Gaz. vol. 165; p. 351.
Hot-water holder. B. A. Deans and M. J. Songer. No. 981,388; Jan. 10; Sp. p. 2768; Gaz. vol. 162; p. 450.
Hot-water systems, Accelerator for. A. G. Stapel. No. 980,360; Jan. 3; Sp. p. 368; Gaz. vol. 162; p. 65.
Hotbed. C. Abraham. No. 992,529; May 16; Sp. p. 3655; Gaz. vol. 166; p. 656.
Hotel-lock. W. E. Sparks and H. G. Collins. No. 1,003,818; Sept. 19; Sp. p. 3543; Gaz. vol. 170; p. 630.
Hotel-lock, emergency-cylinder. A. Arens and E. L. Teich. No. 987,846; Mar. 28; Sp. p. 4405; Gaz. vol. 164; p. 802.
Hotel-register. S. Duncan. No. 997,184; July 4; Sp. p. 1237; Gaz. vol. 168; p. 200.
Hotels and other places, Indicator for. E. L. Powell. No. 998,391; July 18; Sp. p. 3919; Gaz. vol. 168; p. 694.
House: *See* Portable house; Poultry-house.
House-screen. E. J. Faires and J. M. Martin. No. 984,653; Feb. 21; Sp. p. 3052; Gaz. vol. 163; p. 540.
Household utensil. E. F. Kandlbinder. No. 990,561; Apr. 25; Sp. p. 4933; Gaz. vol. 165; p. 861.
Housing appliance. L. F. Hake. No. 980,514; Jan. 3; Sp. p. 743; Gaz. vol. 162; p. 119.
Hover for poultry. G. M. Curtis. No. 989,127; Apr. 11; Sp. p. 1751; Gaz. vol. 165; p. 305.
Hub and axle-bearing, Wheel-. H. Kintz and J. P. McConnel. No. 995,608; June 20; Sp. p. 3316; Gaz. vol. 167; p. 584.
Hub and pulley, Combined sheet-metal. W. Sparks. No. 985,711; Feb. 28; Sp. p. 5358; Gaz. vol. 163; p. 938.
Hub-attaching device. L. Ray. No. 982,300; Jan. 24; Sp. p. 4715; Gaz. vol. 162; p. 815.
Hub-attaching device. G. H. Rice. No. 982,745; Jan. 24; Sp. p. 5634; Gaz. vol. 162; p. 966.
Hub-attaching device. O. A. Murphey. No. 991,349; May 2; Sp. p. 1121; Gaz. vol. 166; p. 187.
Hub-attaching device. E. S. Woodbury and G. H. McKelvey. No. 996,190; June 27; Sp. p. 4605; Gaz. vol. 167; p. 821.
Hub-attaching device. J. N. Rickards. No. 1,002,452; Sept. 5; Sp. p. 616; Gaz. vol. 170; p. 89.
Hub-attaching device. J. D. Robertson. No. 1,005,072; Oct. 3; Sp. p. 1080; Gaz. vol. 171; p. 181.
Hub-attaching device. J. A. Peek. No. 1,009,854; Nov. 28; Sp. p. 4908; Gaz. vol. 172; p. 887.
Hub, Automobile spring-. C. Minaker. No. 1,004,455; Sept. 26; Sp. p. 4984; Gaz. vol. 170; p. 877.
Hub, Differential. G. W. Stanley. No. 993,563; May 30; Sp. p. 5869; Gaz. vol. 166; p. 1070.
Hub, Differential. G. W. Stanley. No. 997,585; July 11; Sp. p. 2047; Gaz. vol. 168; p. 365.
Hub for automobiles and similar vehicles, Wheel-. A. P. Stocker. No. 999,607; Aug. 1; Sp. p. 810; Gaz. vol. 169; p. 141.
Hub for trolley-wheels, Self-lubricating. W. J. Richardson. No. 1,011,491; Dec. 12; Sp. p. 2456; Gaz. vol. 173; p. 418.
Hub for velocipedes and the like, Coaster-. W. Blair. No. 1,004,138; Sept. 26; Sp. p. 4335; Gaz. vol. 170; p. 770.
Hub, Resilient wheel-. H. L. McDuffee. No. 981,297; Jan. 10; Sp. p. 2571; Gaz. vol. 162; p. 419.
Hub, Spring-. J. Berner. No. 994,111; June 6; Sp. p. 14; Gaz. vol. 167; p. 5.
Hub, Vehicle-. J. T. Holly. No. 1,008,268; Nov. 7; Sp. p. 1336; Gaz. vol. 172; p. 218.
Hub, Wheel-. M. C. Shea. No. 987,090; Mar. 14; Sp. p. 2774; Gaz. vol. 164; p. 480.
Hub, Wheel-. E. J. Keena and J. W. Kelly. No. 987,724; Mar. 28; Sp. p. 4154; Gaz. vol. 164; p. 760.
Hub, Wheel-. M. J. and P. P. Adams. No. 1,003,577; Sept. 19; Sp. p. 3044; Gaz. vol. 170; p. 549.
Huckleberry-picker. M. J. Francis. No. 1,010,488; Dec. 5; Sp. p. 191; Gaz. vol. 173; p. 32.
Hull construction. W. E. McNeillie, Jr. No. 984,285; Feb. 14; Sp. p. 2256; Gaz. vol. 163; p. 381.
Huller: *See* Boll-huller.
Hulling and grinding machine. D. L. Adelsperger. No. 989,686; Apr. 18; Sp. p. 2992; Gaz. vol. 165; p. 527.
Human system to heat or cold, Appliance for subjecting portions of the. J. A. Fulton. No. 1,011,606; Dec. 12; Sp. p. 2749; Gaz. vol. 173; p. 460.
Humidifier. J. T. Lockhart. No. 1,005,723; Oct. 10; Sp. p. 2528; Gaz. vol. 171; p. 434.
Humidifier or spray-producer. T. Winstanley. No. 981,149; Jan. 10; Sp. p. 2222; Gaz. vol. 162; p. 366.
Humidifying and air-moistening apparatus. S. W. Cramer and W. B. Hodge. No. 996,217; June 27; Sp. p. 4649; Gaz. vol. 167; p. 830.
Humidifying apparatus. A. J. Dronsfield. No. 1,002,905; Sept. 12; Sp. p. 1634; Gaz. vol. 170; p. 282.
Humidifying apparatus and means for controlling same. J. I. Lyle. No. 1,001,869; Aug. 29; Sp. p. 5706; Gaz. vol. 169; p. 1044.
Humidifying apparatus and means for controlling the same. J. I. Lyle and E. T. Murphy. No. 1,011,458; Dec. 12; Sp. p. 2366; Gaz. vol. 173; p. 405.
Humidity-controlling apparatus. E. T. Murphy. No. 1,012,414; Dec. 19; Sp. p. 4501; Gaz. vol. 173; p. 771.
Humidity, Regulating and maintaining. H. D. Tiemann. No. 981,818; Jan. 17; Sp. p. 3664; Gaz. vol. 162; p. 619.
Humidor. R. A. Wilson. No. 1,012,494; Dec. 19; Sp. p. 4649; Gaz. vol. 173; p. 798.
Humus and making same, Inoculated. C. Ellis. No. 1,002,248; Sept. 5; Sp. p. 138; Gaz. vol. 170; p. 17.
Husking apparatus. C. O. Blee and C. Black. No. 1,000,984; Aug. 22; Sp. p. 3823; Gaz. vol. 169; p. 712.
Husking device. C. E. Wills. No. 980,581; Jan. 3; Sp. p. 879; Gaz. vol. 162; p. 141.
Husking implement. E. A. Berggren. No. 1,007,263; Oct. 31; Sp. p. 5975; Gaz. vol. 171; p. 1091.
Husking-machine. T. G. Kelso. No. 995,257; June 13; Sp. p. 2508; Gaz. vol. 167; p. 434.
Hydrant. G. W. Hayden. No. 983,279; Feb. 7; Sp. p. 46; Gaz. vol. 163; p. 9.
Hydrant. J. Ewart. No. 983,545; Feb. 7; Sp. p. 627; Gaz. vol. 163; p. 98.
Hydrant. O. O. Storle. No. 985,469; Feb. 28; Sp. p. 4815; Gaz. vol. 163; p. 855.
Hydrant. J. F. Ferry. No. 987,290; Mar. 21; Sp. p. 3236; Gaz. vol. 164; p. 584.
Hydrant. A. Ceranek. No. 987,614; Mar. 21; Sp. p. 3888; Gaz. vol. 164; p. 692.

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Hydrant. F. T. Lake. No. 998,782; July 25; Sp. p. 4772; Gaz. vol. 168; p. 862.
Hydrant and stop and waste cock, Combined. P. and H. Mueller. No. 998,586; July 18; Sp. p. 4309; Gaz. vol. 168; p. 761.
Hydrant-valve. W. Ziller. No. 1,004,225; Sept. 26; Sp. p. 4519; Gaz. vol. 170; p. 800.
Hydraulic compress with double-acting ram. S. J. Webb. No. 996,692; July 4; Sp. p. 190; Gaz. vol. 168; p. 33.
Hydraulic engine. A. Sundh. No. 980,449; Jan. 3; Sp. p. 575; Gaz. vol. 162; p. 96.
Hydraulic engine. J. L. Knight. No. 990,364; Apr. 25; Sp. p. 4465; Gaz. vol. 165; p. 790.
Hydraulic equalizer. F. T. Snyder. No. 1,010,000; Nov. 28; Sp. p. 5207; Gaz. vol. 172; p. 935.
Hydraulic governor. C. J. Coleman. No. 995,117; June 13; Sp. p. 2227; Gaz. vol. 167; p. 387.
Hydraulic motor. H. L. and J. Staelen. No. 993,728; May 30; Sp. p. 6245; Gaz. vol. 166; p. 1128.
Hydraulic motor. W. S. Tichenor and O. Grimwood. No. 1,001,093; Aug. 22; Sp. p. 4103; Gaz. vol. 169; p. 752.
Hydraulic motor. J. R. Plank. No. 1,002,445; Sept. 5; Sp. p. 604; Gaz. vol. 170; p. 86.
Hydraulic motor. J. R. Plank. No. 1,002,541; Sept. 5; Sp. p. 808; Gaz. vol. 170; p. 118.
Hydraulic power apparatus. M. J. Quimby. No. 990,390; Apr. 25; Sp. p. 4538; Gaz. vol. 165; p. 801.
Hydraulic power-transmission system. C. J. Coleman. No. 993,653; May 30; Sp. p. 6073; Gaz. vol. 166; p. 1101.
Hydraulic press. S. J. Webb. No. 996,693; July 4; Sp. p. 192; Gaz. vol. 168; p. 33.
Hydraulic press. J. Becker and A. Beyer. No. 999,087; July 25; Sp. p. 5451; Gaz. vol. 168; p. 970.
Hydraulic press. N. E. Parish. No. 1,002,747; Sept. 5; Sp. p. 1267; Gaz. vol. 170; p. 190.
Hydraulic press. W. H. Cotton and H. J. Flood. No. 1,003,987; Sept. 26; Sp. p. 3947; Gaz. vol. 170; p. 716.
Hydraulic press. J. Stehlin. No. 1,004,214; Sept. 26; Sp. p. 4494; Gaz. vol. 170; p. 796.
Hydraulic press with pressure-intensifier. B. Gerdau. No. 1,007,349; Oct. 31; Sp. p. 6149; Gaz. vol. 171; p. 1121.
Hydraulic presses, Cylinder system for. A. A. Longaker. No. 996,992; July 4; Sp. p. 839; Gaz. vol. 168; p. 135.
Hydraulic systems, Safety device for. L. M. Karnasch. No. 991,624; May 9; Sp. p. 1713; Gaz. vol. 166; p. 315.
Hydraulic transmission mechanism. C. C. Rich. No. 991,646; May 9; Sp. p. 1759; Gaz. vol. 166; p. 322.
Hydrocarbon-burner. J. J. Meyer. No. 983,634; Feb. 7; Sp. p. 808; Gaz. vol. 163; p. 129.
Hydrocarbon-burner. V. H. and J. H. T. Mills. No. 986,739; Mar. 14; Sp. p. 2080; Gaz. vol. 164; p. 364.
Hydrocarbon-burner. R. Hoffman. No. 987,067; Mar. 14; Sp. p. 2737; Gaz. vol. 164; p. 473.
Hydrocarbon-burner. D. M. and R. W. Jackson. No. 988,572; Apr. 4; Sp. p. 604; Gaz. vol. 165; p. 97.
Hydrocarbon-burner. E. G. Mummery. No. 992,798; May 23; Sp. p. 4204; Gaz. vol. 166; p. 777.
Hydrocarbon-burner. A. O. Bradford. No. 994,117; June 6; Sp. p. 29; Gaz. vol. 167; p. 7.
Hydrocarbon-burner. W. H. Brown. No. 998,835; July 25; Sp. p. 4892; Gaz. vol. 168; p. 881.
Hydrocarbon-burner. J. A. Darst and M. Brittain. No. 999,098; July 25; Sp. p. 5472; Gaz. vol. 168; p. 973.
Hydrocarbon-burner. E. P. Herpin. No. 999,165; July 25; Sp. p. 5587; Gaz. vol. 168; p. 993.
Hydrocarbon-burner. H. C. Ruggles. No. 1,001,557; Aug. 22; Sp. p. 5023; Gaz. vol. 169; p. 906.
Hydrocarbon-burner. J. H. T. and V. H. Mills. No. 1,004,292; Sept. 26; Sp. p. 4646; Gaz. vol. 170; p. 822.
Hydrocarbon-burner. F. H. Lehman. No. 1,005,241; Oct. 10; Sp. p. 1443; Gaz. vol. 171; p. 264.
Hydrocarbon-burner. J. C. Kurtz and S. Buchanan. No. 1,005,561; Oct. 10; Sp. p. 2172; Gaz. vol. 171; p. 378.
Hydrocarbon-burner. C. E. Glafke. No. 1,005,958; Oct. 17; Sp. p. 3059; Gaz. vol. 171; p. 550.
Hydrocarbon-burner. F. H. Hayers. No. 1,009,743; Nov. 28; Sp. p. 4681; Gaz. vol. 172; p. 849.
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Hydrocarbon burner, Liquid-. S. Elliott. No. 993,665; May 30; Sp. p. 6102; Gaz. vol. 166; p. 1105.
Hydrocarbon-burners, Safety feed device for. W. M. Hibbitt. No. 989,359; Apr. 11; Sp. p. 2263; Gaz. vol. 165; p. 384.
Hydrocarbon-engine. R. Huff. No. 1,002,695; Sept. 5; Sp. p. 1134; Gaz. vol. 170; p. 171.
Hydrocarbon-engine. G. W. Haury. No. 1,010,906; Dec. 5; Sp. p. 1129; Gaz. vol. 173; p. 178.
Hydrocarbon for combustion, Preparing liquid. E. J. Wiggins. (Reissue.) No. 13,266; July 4; Sp. p. 1387; Gaz. vol. 168; p. 227.
Hydrocarbon-fuel-burning apparatus. B. L. Worthen. No. 997,728; July 11; Sp. p. 2370; Gaz. vol. 168; p. 416.
Hydrocarbon-furnace. J. C. Scrivner. No. 1,003,522; Sept. 19; Sp. p. 2895; Gaz. vol. 170; p. 529.
Hydrocarbon furnace, Liquid-. J. H. Becker. No. 989,828; Apr. 18; Sp. p. 3303; Gaz. vol. 165; p. 576.
Hydrocarbon-generator. H. A. Rice. No. 1,001,077; Aug. 22; Sp. p. 4072; Gaz. vol. 169; p. 747.
Hydrocarbon lighting system. C. K. Harding. No. 983,227; Jan. 31; Sp. p. 6661; Gaz. vol. 162; p. 1158.
Hydrocarbon-motor. A. B. Fowler. No. 981,753; Jan. 17; Sp. p. 3509; Gaz. vol. 162; p. 595.
Hydrocarbon-motor. A. B. Fowler. No. 989,241; Apr. 11; Sp. p. 2002; Gaz. vol. 165; p. 344.
Hydrocarbon-motor. A. B. Fowler. No. 998,334; July 18; Sp. p. 3796; Gaz. vol. 168; p. 675.
Hydrocarbon power plant. A. Büchi. No. 1,006,907; Oct. 24; Sp. p. 5193; Gaz. vol. 171; p. 913.
Hydrocarbon-system generator. G. T. Rosselle. No. 1,002,871; Sept. 12; Sp. p. 1551; Gaz. vol. 170; p. 270.
Hydrocarbons, Production of halogen derivatives of. I. Pfeifer and E. Szarvasy. No. 1,012,149; Dec. 19; Sp. p. 3947; Gaz. vol. 173; p. 682.
Hydrochlorid of ortho-dioxy-phenyl-ethanol-methylamin in a crystallized form. F. Flaecher. No. 1,002,909; Sept. 12; Sp. p. 1648; Gaz. vol. 170; p. 284.
Hydrogen-peroxid solution, Preserving. M. Schlaugk. No. 992,265; May 16; Sp. p. 3089; Gaz. vol. 166; p. 562.
Hydrogen peroxid, Stable. O. Liebknecht. No. 1,002,854; Sept. 12; Sp. p. 1492; Gaz. vol. 170; p. 264.
Hydrogen peroxid, Stable perborate mixture yielding. A. Klages and F. Sommer. No. 996,773; July 4; Sp. p. 346; Gaz. vol. 168; p. 59.
Hydrometallurgical solutions by means of an improved precipitant, Precipitating. C. W. Merrill. No. 1,006,865; Oct. 24; Sp. p. 5092; Gaz. vol. 171; p. 898.
Hydrometallurgical solutions by means of an improved precipitant, Precipitating. C. W. Merrill. No. 1,006,866; Oct. 24; Sp. p. 5095; Gaz. vol. 171; p. 899.
Hydromobile. M. W. Tebyricá. No. 987,508; Mar. 21; Sp. p. 3683; Gaz. vol. 164; p. 657.
Hydroplane. R. Eckley. No. 999,971; Aug. 8; Sp. p. 1560; Gaz. vol. 169; p. 294.
Hydrostatic motor. J. G. Mecham. No. 999,579; Aug. 1; Sp. p. 763; Gaz. vol. 169; p. 132.
Hydrosulfites, Dehydrating hydrated. H. Rey. No. 987,170; Mar. 21; Sp. p. 2979; Gaz. vol. 164; p. 541.
Hydrotherapeutic purposes, Wrapping for. M. P. P. B. Nerli. No. 1,000,750; Aug. 15; Sp. p. 3310; Gaz. vol. 169; p. 598.
Hydrovacuum-creator. J. J. Gorman. No. 1,008,712; Nov. 14; Sp. p. 2448; Gaz. vol. 172; p. 414.
Hygrometer. J. A. Thompson. No. 998,049; July 18; Sp. p. 3136; Gaz. vol. 168; p. 571.
Hygrometer. W. Jandus. No. 1,005,550; Oct. 10; Sp. p 2135; Gaz. vol. 171; p. 375.
Hygrometric indicator. E. W. Comfort. No. 1,003,341; Sept. 12; Sp. p. 2532; Gaz. vol. 170; p. 436.
Hypodermic-needle protector. J. Payne. No. 991,015; May 2; Sp. p. 395; Gaz. vol. 166; p. 67.
I-bars with taperless flanges, Forming. H. Sack. No. 983,601; Feb. 7; Sp. p. 752; Gaz. vol. 163; p. 118.
I-beam, Reinforced. H. L. Smith. No. 992,994; May 23; Sp. p. 4646; Gaz. vol. 166; p. 848.
Ice and generating power, Making. J. P. Pool. No. 989,044; Apr. 11; Sp. p. 1580; Gaz. vol. 165; p. 277.
Ice, Apparatus for making clear can-. J. E. Simon. No. 1,012,108; Dec. 19; Sp. p. 3859; Gaz. vol. 173; p. 668.
Ice, Apparatus for the manufacture of plate-. H. Sloan. No. 994,881; June 13; Sp. p. 1750; Gaz. vol. 167; p. 309.
Ice-bag. V. C. Madigan. No. 989,621; Apr. 18; Sp. p. 2855; Gaz. vol. 165; p. 505.
Ice-bag. W. S. Leyens. No. 995,407; June 13; Sp. p. 2849; Gaz. vol. 167; p. 484.
Ice-box. A. Grinke. No. 986,917; Mar. 14; Sp. p. 2464; Gaz. vol. 164; p. 426.
Ice-box, Scale. L. O. Nelson. No. 1,001,158; Aug. 22; Sp. p. 4221; Gaz. vol. 169; p. 772.
Ice-breaker. E. Duplessis. No. 993,440; May. 30; Sp. p. 5600; Gaz. vol. 166; p. 1027.
Ice-can. J. D. Berryman. No. 989,690; Apr. 18; Sp. p. 3003; Gaz. vol. 165; p. 528.
Ice-cap. R. A. Barnes. No. 1,002,021; Aug. 29; Sp. p. 6045; Gaz. vol. 169; p. 1093.
Ice-cleaning means for ice-wagons. G. E. and J. H. Burdick. No. 983,346; Feb. 7; Sp. p. 186; Gaz. vol. 163; p. 33.
Ice-cream-can puller and carrier. S. Frank. No. 993,976; May 30; Sp. p. 6728; Gaz. vol. 166; p. 1211.
Ice-cream-cone-filling device. J. W. Duncan. No. 999,018; July 25; Sp. p. 5518; Gaz. vol. 168; p. 946.
Ice-cream-cone machines, Receptacle for holding and delivering batter for. L. H. Lanier. No. 988,196; Mar. 28; Sp. p. 5182; Gaz. vol. 164; p. 919.
Ice-cream cones, Packing-case for. L. L. Westling. No. 985,870; Mar. 7; Sp. p. 230; Gaz. vol. 164; p. 38.
Ice-cream cutting and wrapping machine. J. Bellini. No. 983,421; Feb. 7; Sp. p. 341; Gaz. vol. 163; p. 58.
Ice-cream dipper. E. and C. L. Walker. No. 1,012,944; Dec. 26; Sp. p. 5694; Gaz. vol. 173; p. 998.
Ice-cream freezer. J. D. and C. E. Butler and J. A. Abbott. No. 981,060; Jan. 10; Sp. p. 2038; Gaz. vol. 162; p. 335.
Ice-cream freezer. L. S. Pfouts. No. 990,496; Apr. 25; Sp. p. 4807; Gaz. vol. 165; p. 839.
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Ice-cream freezer. R. Liddell. No. 995,975; June 20; Sp. p. 4090; Gaz. vol. 167; p. 712.
Ice-cream freezer. A. O. McCann. No. 998,708; July 25; Sp. p. 4588; Gaz. vol. 168; p. 836.
Ice-cream freezer. R. B. Simpson. No. 1,005,342; Oct. 10; Sp. p. 1688; Gaz. vol. 171; p. 301.
Ice-cream freezer. H. J. Hedges. No. 1,010,046; Nov. 28; Sp. p. 5309; Gaz. vol. 172; p. 952.
Ice-cream freezer. M. A. Rollman. No. 1,011,247; Dec. 12; Sp. p. 1914; Gaz. vol. 173; p. 330.
Ice-cream-freezer dasher. F. Tyson. No. 999,473; Aug. 1; Sp. p. 545; Gaz. vol. 169; p. 96.
Ice-cream-freezer frame. L. S. Pfouts. No. 990,495; Apr. 25; Sp. p. 4806; Gaz. vol. 165; p. 838.
Ice-cream-freezer head. F. Tyson. No. 1,001,906; Aug. 29; Sp. p. 5800; Gaz. vol. 169; p. 1056.
Ice-cream-freezer holder. E. Praeger. No. 996,137; June 27; Sp. p. 4434; Gaz. vol. 167; p. 802.
Ice-cream-freezer scraper. E. Glaser. No. 1,008,710; Nov. 14; Sp. p. 2445; Gaz. vol. 172; p. 413.
Ice-cream-freezer support. A. N. Carlson. No. 1,007,062; Oct. 31; Sp. p. 5511; Gaz. vol. 171; p. 1018.
Ice-cream freezers, Batch-mixer for. L. S. Pfouts. No. 990,498; Apr. 25; Sp. p. 4816; Gaz. vol. 165; p. 840.
Ice-cream ladle or cup. R. A. D. Colmery. No. 993,508; May 30; Sp. p. 5747; Gaz. vol. 166; p. 1050.
Ice-cream pails, Insulating-jacket for. S. E. Parrish. No. 1,009,993; Nov. 28; Sp. p. 5187; Gaz. vol. 172; p. 932.
Ice-cream receptacle. L. R. Steel. No. 990,077; Apr. 18; Sp. p. 3809; Gaz. vol. 165; p. 660.
Ice-cream stand. B. Van Vorce. No. 985,309; Feb. 28; Sp. p. 4449; Gaz. vol. 163; p. 800.
Ice-cream tubs, Lid for. J. W. McKinney. No. 1,004,668; Oct. 3; Sp. p. 250; Gaz. vol. 171; p. 44.
Ice-creeper. A. Scaramella. No. 986,763; Mar. 14; Sp. p. 2138; Gaz. vol. 164; p. 372.
Ice-creeper. B. Burgess. No. 987,109; Mar. 21; Sp. p. 2812; Gaz. vol. 164; p. 518.
Ice-creeper. J. I. Holderbaum. No. 992,773; May 23; Sp. p. 4150; Gaz. vol. 166; p. 768.
Ice-creeper. C. A. Marshall. No. 994,527; June 6; Sp. p. 886; Gaz. vol. 167; p. 147.
Ice-creeper. J. E. Gerry. No. 995,784; June 20; Sp. p. 3705; Gaz. vol. 167; p. 646.
Ice-creeper. C. F. West. No. 1,001,182; Aug. 22; Sp. p. 4275; Gaz. vol. 169; p. 780.
Ice-creeper. W. W. Warren and J. E. Knox. No. 1,005,676; Oct. 10; Sp. p. 2440; Gaz. vol. 171; p. 419.
Ice-creeper. C. A. Soderburg. No. 1,008,286; Nov. 7; Sp. p. 1382; Gaz. vol. 172; p. 225.
Ice-cubing machine. A. W. Bodell. No. 1,010,013; Nov. 28; Sp. p. 5247; Gaz. vol. 172; p. 940.
Ice-cutter. M. B. Burrows. No. 999,091; July 25; Sp. p. 5460; Gaz. vol. 168; p. 971.
Ice-cutting machine. J. S. Lambert. No. 983,909; Feb. 14; Sp. p. 1433; Gaz. vol. 163; p. 253.
Ice-cutting machine. T. Shipley. No. 988,038; Mar. 28; Sp. p. 4885; Gaz. vol. 164; p. 868.
Ice-cutting machine. H. L. Pearman and H. W. Stibgen. No. 989,634; Apr. 18; Sp. p. 2882; Gaz. vol. 165; p. 509.
Ice-cutting machine. F. Eschenbach. No. 995,236; June 13; Sp. p. 2464; Gaz. vol. 167; p. 426.
Ice-cutting machine. J. G. Bolting. No. 998,598; July 25; Sp. p. 4345; Gaz. vol. 168; p. 797.
Ice-cutting machine. F. M. Geil. No. 1,007,279; Oct. 31; Sp. p. 6009; Gaz. vol. 171; p. 1096.
Ice-cutting machine. J. C. Babst and J. H. Fisch. No. 1,009,884; Nov. 28; Sp. p. 4964; Gaz. vol. 172; p. 897.
Ice-cutting machine. G. L. Strait. No. 1,012,745; Dec. 26; Sp. p. 5197; Gaz. vol. 173; p. 931.
Ice-cutting mechanism. A. Day. No. 982,040; Jan. 17; Sp. p. 4181; Gaz. vol. 162; p. 697.
Ice-forming apparatus. W. F. Johnson. No. 985,601; Feb. 28; Sp. p. 5097; Gaz. vol. 163; p. 901.
Ice-freezing tank. J. H. Lewis. No. 986,835; Mar. 14; Sp. p. 2291; Gaz. vol. 164; p. 397.
Ice-machine. H. D. Pownall. No. 992,518; May 16; Sp. p. 3631; Gaz. vol. 166; p. 652.
Ice-machine. H. D. Pownall. No. 992,589; May 16; Sp. p. 3795; Gaz. vol. 166; p. 677.
Ice-machines, Grab apparatus for. W. T. Ray. No. 990,591; Apr. 25; Sp. p. 4998; Gaz. vol. 165; p. 871.
Ice-machines, Water-purifier for. J. J. Schrade. No. 983,169; Jan. 31; Sp. p. 6538; Gaz. vol. 162; p. 1137.
Ice, Making. G. K. Davol. No. 988,316; Apr. 4; Sp. p. 40; Gaz. vol. 165; p. 9.
Ice-making apparatus. G. T. Voorhees. No. 983,466; Feb. 7; Sp. p. 447; Gaz. vol. 163; p. 72.
Ice-making apparatus. P. R. McCrary. No. 983,508; Feb. 7; Sp. p. 539; Gaz. vol. 163; p. 86.
Ice-making apparatus. O. Freytag. No. 1,004,005; Sept. 26; Sp. p. 4865; Gaz. vol. 170; p. 860.
Ice-making apparatus, Artificial-. O. H. Jewell. No 1,004,653; Oct. 3; Sp. p. 221; Gaz. vol. 171; p. 39.
Ice-making apparatus, Concentric-circular-cell. G. T. Voorhees. No. 984,052; Feb. 14; Sp. p. 1750; Gaz. vol. 163; p. 301.
Ice-making apparatus, Plate-. J. D. Gallagher. No. 993,771; May 30; Sp. p. 6339; Gaz. vol. 166; p. 1143.
Ice-making machine. W. T. Ray. No. 990,590; Apr. 25; Sp. p. 4992; Gaz. vol. 165; p. 870.
Ice-making system. A. E. Beals. No. 983,017; Jan. 31; Sp. p. 6249; Gaz. vol. 162; p. 1087.
Ice mold, Artificial-. E. N. Breitung. No. 1,010,225; Nov. 28; Sp. p. 5652; Gaz. vol. 172; p. 1012.
Ice-pick. D. W. Baker. No. 982,564; Jan. 24; Sp. p. 5259; Gaz. vol. 162; p. 907.
Ice-pick. C. L. Ruehs. No. 1,008,734; Nov. 14; Sp. p. 2504; Gaz. vol. 172; p. 421.
Ice-producing apparatus, Artificial-. P. F. Stein. No. 984,168; Feb. 14; Sp. p. 1976; Gaz. vol. 163; p. 339.
Ice-rest and water-cooler. W. F. Keyes. No. 995,791; June 20; Sp. p. 3721; Gaz. vol. 167; p. 648.
Ice-skid switch. C. H. Martell. No. 990,058; Apr. 18; Sp. p. 3779; Gaz. vol. 165; p. 654.
Ice tongs and weighing device, Combined. C. W. Mikaelson. No. 983,635; Feb. 7; Sp. p. 810; Gaz. vol. 163; p. 129.
Ice, Treating water in manufacturing. C. C. Peck. No. 1,001,885; Aug. 29; Sp. p. 5753; Gaz. vol. 169; p. 1049.
Icecycle. J. Filimonesk. No. 1,001,379; Aug. 22; Sp. p. 4698; Gaz. vol. 169; p. 847.
Identification device. J. H. Thompson. No. 997,342; July 11; Sp. p. 1577; Gaz. vol. 168; p. 285.
Identification device, Illuminating. F. L. Briggs and G. Morris, Jr. No. 997,960; July 18; Sp. p. 2938; Gaz. vol. 168; p. 539.
Identification-ring. C. Dinuccio. No. 984,803; Feb. 21; Sp. p. 3367; Gaz. vol. 163; p. 594.
Igniter. H. N. Fullenweider. No. 983,489; Feb. 7; Sp. p. 498; Gaz. vol. 163; p. 80.
Igniter. G. Gray. No. 987,800; Mar. 28; Sp. p. 4314; Gaz. vol. 164; p. 785.
Igniter. E. P. Du Pont. No. 991,364; May 2; Sp. p. 1153; Gaz. vol. 166; p. 192.
Igniter. E. F. Koehler. No. 998,535; July 18; Sp. p. 4194; Gaz. vol. 168; p. 743.
Igniter. F. W. Goerdes. No 1,004,868; Oct 3; Sp. p. 697; Gaz. vol. 171; p. 113.
Igniter-changer for ignition-chambers. P. G. Schmidt. No. 990,394; Apr. 25; Sp. p. 4547; Gaz. vol. 165; p. 803.
Igniter for gas-burners. J. Jergle, K. Machal, and J. Heller. No. 994,164; June 6; Sp. p. 125; Gaz. vol. 167; p. 22.
Igniter, Fuel-. L. P. Gagnon. No. 995,246; June 13; Sp. p. 2480; Gaz. vol. 167; p. 429.
Igniter, Fuel-. W. A. Dyer. No. 1,001,374; Aug. 22; Sp. p. 4691; Gaz. vol. 169; p. 846.
Igniter, Fuel-. W. A. Dyer. No. 1,001,934; Aug. 29; Sp. p. 5862; Gaz. vol. 169; p. 1065.
Igniter, Sparking. L. H. Wattles. No. 990,935; May 2; Sp. p. 227; Gaz. vol. 166; p. 40.
Igniter with spark-emitting mass. J. Kellermann. No. 983,238; Jan. 31; Sp. p. 6688; Gaz. vol. 162; p. 1161.
Igniting device. W. S. Andrews and T. Van Aller. No. 985,097; Feb. 21; Sp. p. 3925; Gaz. vol. 163; p. 693.
Igniting device. W. S. Andrews and T. Van Aller. No. 985,098; Feb. 21; Sp. p. 3926; Gaz. vol. 163; p. 694.
Ignition apparatus, Electrical. A. H. Crocker. No. 990,960; May 2; Sp. p. 286; Gaz. vol. 166; p. 49.
Ignition device. C. Rudolf. No. 980,441; Jan. 3; Sp. p. 547; Gaz. vol. 162; p. 92.
Ignition device. F. A. Glasgow. No. 989,905; Apr. 18; Sp. p. 3453; Gaz. vol. 165; p. 602.
Ignition device. J. F. Cavanagh. No. 995,400; June 13; Sp. p. 2831; Gaz. vol. 167; p. 481.
Ignition device. W. W. Dean. No. 1,011,169; Dec. 12; Sp. p. 1739; Gaz. vol. 173; p. 303.
Ignition device. J. F. Cavanagh. No. 1,011,884; Dec. 12; Sp. p. 3326; Gaz. vol. 173; p. 553.
Ignition device, Electric. A. R. Mosler. No. 991,226; May 2; Sp. p. 844; Gaz. vol. 166; p. 144.
Ignition device, Percussive. W. H. Sodeau. No. 1,009,024; Nov. 14; Sp. p. 3114; Gaz. vol. 172; p. 518.
Ignition-plug. B. F. Merritt. No. 1,008,351; Nov. 14; Sp. p. 1572; Gaz. vol. 172; p. 286.
Ignition purposes, Inductor-generator for. H. J. and T. E. Podlešák. No. 1,003,649; Sept. 19; Sp. p. 3185; Gaz. vol. 170; p. 574.
Ignition-regulator. J. C. Carpenter. No. 1,004,364; Sept. 26; Sp. p. 4786; Gaz. vol. 170; p. 846.
Ignition system. T. M. Mueller. No. 988,892; Apr. 4; Sp. p. 1263; Gaz. vol. 165; p. 202.
Ignition system. H. J. Podlešák. No. 1,006,678; Oct. 24; Sp. p. 4674; Gaz. vol. 171; p. 833.
Illuminating device. W. H. Spencer. No. 996,154; June 27; Sp. p. 4468; Gaz. vol. 167; p. 808.
Illuminating device. H. E. Marcy. No. 998,021; July 18; Sp. p. 3079; Gaz. vol. 168; p. 561.
Illuminating device. C. A. Taepke. No. 1,000,129; Aug. 8; Sp. p. 1941; Gaz. vol. 169; p. 349.
Illuminating device. H. V. Chamberlain and A. E. Troop. No. 1,000,580; Aug. 15; Sp. p. 2944; Gaz. vol. 169; p. 539.
Illuminating device. W. F. Gurley. No. 1,005,829; Oct. 17; Sp. p. 2754; Gaz. vol. 171; p. 502.
Illuminating device. A. J. Horner. No. 1,007,284; Oct. 31; Sp. p. 6018; Gaz. vol. 171; p. 1098.

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Illuminating-fixtures, Dome for. W. Lumley. No. 980,306; Jan. 3; Sp. p. 239; Gaz. vol. 162; p. 45.
Illuminating instrument. H. T. Martin and J. F. Golden. No. 981,447; Jan. 10; Sp. p. 2912; Gaz. vol. 162; p. 471.
Illuminating instrument. H. T. Martin and J. F. Golden. No. 1,011,980; Dec. 19; Sp. p. 3561; Gaz. vol. 173; p. 622.
Illuminating interiors of buildings, Means for. J. J. Jennings. No. 982,823; Jan. 31; Sp. p. 5812; Gaz. vol. 162; p. 1023.
Illuminating system for theatrical display. L. S. Howard. No. 993,251; May 23; Sp. p. 5181; Gaz. vol. 166; p. 931.
Illusion device. F. Miele. No. 999,512; Aug. 1; Sp. p. 631; Gaz. vol. 169; p. 109.
Illusion, Novelty. A. L. Black. No. 984,414; Feb. 14; Sp. p. 2497; Gaz. vol. 163; p. 423.
Illusory dramatic effects, Device for producing. N. Burgess. No. 996,452; June 27; Sp. p. 5195; Gaz. vol. 167; p. 910.
Illusory effects, Apparatus for producing. R. M. Hill. No. 1,003,905; Sept. 19; Sp. p. 3710; Gaz. vol. 170; p. 661.
Images and hollow articles, Constructing. A. Thompson. No. 983,582; Feb. 7; Sp. p. 716; Gaz. vol. 163; p. 111.
Immersion-heater. G. C. Young. No. 1,000,871; Aug. 15; Sp. p. 3568; Gaz. vol. 169; p. 641.
Impedance device. W. R. Garton. No. 982,266; Jan. 24; Sp. p. 4624; Gaz. vol. 162; p. 802.
Impeller. H. Parker. No. 1,004,543; Sept. 26; Sp. p. 5158; Gaz. vol. 170; p. 907.
Implement. H. Burch. No. 997,368; July 11; Sp. p. 1624; Gaz. vol. 168; p. 294.
Implement, Combination. B. E. Totty. No. 1,004,312; Sept. 26; Sp. p. 4685; Gaz. vol. 170; p. 829.
Implement, Convertible. W. Thompson. No. 1,003,383; Sept. 12; Sp. p. 2606; Gaz. vol. 170; p. 448.
Implement-holder. C. Tharp. No. 988,837; Apr. 4; Sp. p. 1164; Gaz. vol. 165; p. 185.
Implement-holder. D. B. Wing. No. 1,000,704; Aug. 15; Sp. p. 3217; Gaz. vol. 169; p. 581.
Impulse-wheel. J. Desenberg. No. 983,984; Feb. 14; Sp. p. 1594; Gaz. vol. 163; p. 278.
Incandescent bulbs, Husk for. W. Lumley. No. 981,207; Jan. 10; Sp. p. 2343; Gaz. vol. 162; p. 386.
Incandescent burner. C. K. Harding. No. 1,006,085; Oct. 17; Sp. p. 3317; Gaz. vol. 171; p. 592.
Incandescent lighting-bodies, Making. O. Wiederhold. No. 996,182; June 27; Sp. p. 4586; Gaz. vol. 167; p. 818.
Incandescent mantle. R. Langhans. No. 990,753; Apr. 25; Sp. p. 5362; Gaz. vol. 165; p. 925.
Incandescent mantle, Inverted. C. K. Harding. No. 982,958; Jan. 31; Sp. p. 6107; Gaz. vol. 162; p. 1067.
Incandescent mantle, Inverted. C. K. Harding. No. 993,334; May 23; Sp. p. 5347; Gaz. vol. 166; p. 959.
Incandescent mantles, Apparatus for treating. J. T. Lister. No. 989,166; Apr. 11; Sp. p. 1840; Gaz. vol. 165; p. 319.
Incandescent mantles, Manufacture of. T. Terrell. No. 987,333; Mar. 21; Sp. p. 3329; Gaz. vol. 164; p. 598.
Incandescent mantles, Manufacture of. J. Visseaux. No. 995,740; June 20; Sp. p. 3597; Gaz. vol. 167; p. 631.
Incandescent mantles, Producing inverted. C. K. Harding. No. 992,959; May 23; Sp. p. 4580; Gaz. vol. 166; p. 836.
Incandescing conductors, Terminal for. A. O. Appelberg. No. 998,067; July 18; Sp. p. 3181; Gaz. vol. 168; p. 577.
Incinerator. P. I. Bois. No. 984,646; Feb. 21; Sp. p. 3040; Gaz. vol. 163; p. 538.
Incinerator. H. I. Harris. No. 1,000,170; Aug. 8; Sp. p. 2022; Gaz. vol. 169; p. 362.
Incinerator, Latrine-. J. Conley. No. 985,567; Feb. 28; Sp. p. 5025; Gaz. vol. 163; p. 889.
Incisions in wood, &c., Device for producing continuous wavelike. G. Bernstein. No. 1,001,338; Aug. 22; Sp. p. 4604; Gaz. vol. 169; p. 833.
Inclinometer. C. W. Kennedy and E. W. Carlson. No. 986,008; Mar. 7; Sp. p. 548; Gaz. vol. 164; p. 87.
Inclinometer. S. S. Curtiss. No. 1,009,832; Nov. 28; Sp. p. 4874; Gaz. vol. 172; p. 880.
Incubating apparatus. W. E. Maynard. No. 981,097; Jan. 10; Sp. p. 2102; Gaz. vol. 162; p. 347.
Incubating apparatus, Humidity-regulator for. W. E. Maynard. No. 1,009,430; Nov. 21; Sp. p. 4058; Gaz. vol. 172; p. 700.
Incubator. B. A. Engelmann. No. 980,228; Jan. 3; Sp. p. 98; Gaz. vol. 162; p. 19.
Incubator. W. H. Howard. No. 983,823; Feb. 7; Sp. p. 1212; Gaz. vol. 163; p. 193.
Incubator. C. W. Zimmer. No. 985,964; Mar. 7; Sp. p. 446; Gaz. vol. 164; p. 71.
Incubator. R. W. H. Crabb. No. 986,367; Mar. 7; Sp. p. 1280; Gaz. vol. 164; p. 207.
Incubator. E. J. McClanahan. No. 998,790; July 25; Sp. p. 4785; Gaz. vol. 168; p. 865.
Incubator. G. H. Lee. No. 999,571; Aug. 1; Sp. p. 750; Gaz. vol. 169; p. 129.
Incubator. T. Gill. No. 1,001,751; Aug. 29; Sp. p. 5453; Gaz. vol. 169; p. 1004.
Incubator. C. A. Milton. No. 1,009,086; Nov. 21; Sp. p. 3256; Gaz. vol. 172; p. 576.
Incubator. G. H. Stahl. No. 1,010,085; Nov. 28; Sp. p. 5386; Gaz. vol. 172; p. 965.
Incubator-alarm. W. M. Kelly. No. 982,503; Jan. 24; Sp. p. 5151; Gaz. vol. 162; p. 888.
Incubator-alarm. L. H. Litscher. No. 988,198; Mar. 28; Sp. p. 5186; Gaz. vol. 164; p. 920.
Incubator-alarm. L. J. Westfall. No. 1,001,719; Aug. 29; Sp. p. 5379; Gaz. vol. 169; p. 962.
Incubator-alarm-actuating mechanism. W. M. Braly. No. 1,006,824; Oct. 24; Sp. p. 4996; Gaz. vol. 171; p. 884.
Incubator and nursery, Electric. A. Beckstrom. No. 982,462; Jan. 24; Sp. p. 5065; Gaz. vol. 162; p. 874.
Incubator egg-tray. W. M. Lininger. No. 989,912; Apr. 18; Sp. p. 3474; Gaz. vol. 165; p. 604.
Incubator, Electric. E. H. Schorer. No. 994,205; June 6; Sp. p. 218; Gaz. vol. 167; p. 37.
Incubator-heater. G. H. Stahl. No. 981,324; Jan. 10; Sp. p. 2630; Gaz. vol. 162; p. 428.
Incubator-heater. C. A. Damon. No. 985,514; Feb. 28; Sp. p. 4914; Gaz. vol. 163; p. 871.
Incubator-heater. O. P. Shoemaker. No. 989,881; Apr. 18; Sp. p. 3404; Gaz. vol. 165; p. 594.
Incubator-heater regulator. C. E. Adair. No. 987,664; Mar. 21; Sp. p. 3997; Gaz. vol. 164; p. 711.
Incubator regulating mechanism. L. L. White. No. 989,462; Apr. 11; Sp. p. 2471; Gaz. vol. 165; p. 418.
Incubator-temperature regulator. I. B. Havourd. No. 1,001,758; Aug. 29; Sp. p. 5469; Gaz. vol. 169; p. 1005.
Incubators, brooders, &c., Electric heater for. G. M. Curtis. No. 985,983; Mar. 7; Sp. p. 496; Gaz. vol. 164; p. 79.
Index. J. G. McClaughry. No. 1,011,470; Dec. 12; Sp. p. 2403; Gaz. vol. 173; p. 410.
Index and file. H. O. Hibbard. No. 985,172; Feb. 28; Sp. p. 4141; Gaz. vol. 163; p. 753.
Index, Book-. W. H. Jones and B. Holmes. No. 993,689; May 30; Sp. p. 6160; Gaz. vol. 166; p. 1114.
Index, Book-. J. H. Vieser. No. 999,001; July 25; Sp. p. 5276; Gaz. vol. 168; p. 939.
Index for abstracts of conveyances and other records affecting land-titles. A. W. Estes. No. 1,011,765; Dec. 12; Sp. p. 3063; Gaz. vol. 173; p. 512.
Index, Land-record card-. G. W. Ball, Jr. No. 1,012,586; Dec. 26; Sp. p. 4855; Gaz. vol. 173; p. 875.
Index-memoranda apparatus, Automatic predetermined card-. H. Bates. No. 985,125; Feb. 28; Sp. p. 3996; Gaz. vol. 163; p. 736.
Index systems, Tab for card-. J. M. Meyers. No. 1,008,352; Nov. 14; Sp. p. 1574; Gaz. vol. 172; p. 286.
Index-tab clasp. H. P. Hamburg. No. 988,772; Apr. 4; Sp. p. 1038; Gaz. vol. 165; p. 165.
Index with movable tablets carrying cards, Classifying-. L. E. F. David. No. 1,005,614; Oct. 10; Sp. p. 2304; Gaz. vol. 171; p. 397.
Indexes and the like, Rod-locking device for card-. G. Mott. No. 980,993; Jan. 10; Sp. p. 1867; Gaz. vol. 162; p. 311.
Indexing and sorting device, Bill. G. C. Shepherd. No. 1,009,447; Nov. 21; Sp. p. 4093; Gaz. vol. 172; p. 705.
Indexing device, Cam-. C. G. Lundgren. No. 1,008,838; Nov. 14; Sp. p. 2719; Gaz. vol. 172; p. 457.
Indexing mechanism. E. A. Weitershausen and H. F. Ottenbach. No. 1,001,484; Aug. 22; Sp. p. 4878; Gaz. vol. 169; p. 880.
Indicating and adjusting mechanism. C. M. Grey. No. 997,619; July 11; Sp. p. 2123; Gaz. vol. 168; p. 378.
Indicating device. C. N. Wisner. No. 983,190; Jan. 31; Sp. p. 6572; Gaz. vol. 162; p. 1144.
Indicating device. F. R. Paine. No. 987,255; Mar. 21; Sp. p. 3159; Gaz. vol. 164; p. 572.
Indicating devices, Maximum-hand for. B. Volkmar. No. 989,088; Apr. 11; Sp. p. 1680; Gaz. vol. 165; p. 292.
Indicating-lock. M. Auerbach. No. 1,002,356; Sept. 5; Sp. p. 410; Gaz. vol. 170; p. 58.
Indicating mechanism. C. B. Stilwell. No. 987,186; Mar. 21; Sp. p. 3015; Gaz. vol. 164; p. 547.
Indicating mechanism. E. E. Yaxley. No. 1,001,795; Aug. 29; Sp. p. 5542; Gaz. vol. 169; p. 1017.
Indicator: *See* Air-pressure indicator; Axis-indicator; Baling-press indicator; Boiler level-indicator; Calendar date-indicator; Camera exposure-indicator; Can-indicator; Car-indicator; Car street-indicator; Cash-indicator; Chord-indicator; Circuit trouble-indicator; Electrical indicator; Electromechanical indicator; Engine-indicator; Expression and tempo indicator; File-indicator; Fire-damp indicator; Funnel-indicator; Hydrometric indicator; Listing-indicator; Lock-indicator; Market-quotation indicator; Measure-indicator; Micrometer-indicator; Music-indicator; Music-transcribing indicator; Office and door indicator; Piston-indicator; Pressure-indicator; Railway-train-order indicator; Recording-indicator; Route-indicator; Score-indicator; Sign-displaying indicator; Smoke-indicator; Spark-plug indicator; Speed-indicator; Station-indicator; Station or street indicator; Street-indicator; Street and station indicator; Tank-indicator; Temperature-indicator; Test-indicator; Time-indicator; Time-piece winding-indicator; Train-number indicator; Type-setting-machine slug-indicator; Valve-indicator; Vessel-indicator; Watch winding-indicator; Water-level indicator.

Alphabetical list of inventions—Continued.

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Indicator. D. Crelman. No. 986,046; Mar. 7; Sp. p. 622; Gaz. vol. 164; p. 100.
Indicator. E. F. Vallilee and R. L. Post. No. 990,930; May 2; Sp. p. 218; Gaz. vol. 166; p. 38.
Indicator-actuating mechanism. T. P. Wilson. No. 997,590; July 11; Sp. p. 2056; Gaz. vol. 168; p. 367.
Indigo and making same, Yellow-colored derivatives of. G. Engi and J. Fröhlich. No. 994,988; June 13; Sp. p. 1974; Gaz. vol 167; p. 345.
Indigo coloring-matter and derivatives thereof and making them. L. Kalb. No. 1,012,363; Dec. 19; Sp. p. 4404; Gaz. vol. 173; p. 754.
Indigo coloring-matters, Reducing. P. E. Oberreit. No. 999,055; July 25; Sp. p. 5394; Gaz. vol. 168; p. 960.
Indigo-vat, Preparation suitable for the. A. Schmidt. No. 1,005,481; Oct. 10; Sp. p. 1986; Gaz. vol. 171; p. 349.
Indoxyls and indigo coloring-matters, Preparing. A. Rahtjen. No. 984,442; Feb. 14; Sp. p. 2554; Gaz. vol. 163; p. 433.
Induction-coil. R. Varley. No. 986,033; Mar. 7; Sp. p. 597; Gaz. vol. 164; p. 96.
Induction-coil. J. McIntyre. No. 1,003,633; Sept. 19; Sp. p. 3154; Gaz. vol. 170; p. 569.
Induction-coil. J. McIntyre. No. 1,003,634; Sept. 19; Sp. p. 3158; Gaz. vol. 170; p. 569.
Induction-coil. W. Meyer. No. 1,004,452; Sept. 26; Sp. p. 4980; Gaz. vol. 170; p. 876.
Induction-coil. W. Meyer. No. 1,004,453; Sept. 26; Sp. p. 4981; Gaz. vol. 170; p. 876.
Induction-coil, Incased. H. C. Thomson. No. 981,718; Jan. 17; Sp. p. 3442; Gaz. vol. 162; p. 583.
Induction coil, Variable self-. A. C. Hovey. No. 985,009; Feb. 21; Sp. p. 3748; Gaz. vol. 163; p. 662.
Induction-coil vibrator. E. B. Jacobson. No. 999,565; Aug. 1; Sp. p. 740; Gaz. vol. 169; p. 127.
Induction-coils, Contact for. J. McIntyre. No. 985,193; Feb. 28; Sp. p. 4184; Gaz. vol. 163; p. 762.
Induction-furnace. E. F. Gehrkens. No. 1,011,769; Dec. 12; Sp. p. 3073; Gaz. vol. 173; p. 514.
Induction-meter. R. C. Lanphier. No. 1,010,271; Nov. 28; Sp. p. 5737; Gaz. vol. 172; p. 1026.
Induction-meter. R. C. Lanphier. No. 1,010,272; Nov. 28; Sp. p. 5740; Gaz. vol. 172; p. 1027.
Induction-motor. I. De Kaiser. No. 990,964; May 2; Sp. p. 291; Gaz. vol. 166; p. 50.
Induction-motor. C. E. Lord. No. 991,626; May 9; Sp. p. 1716; Gaz. vol. 166; p. 315.
Induction-motor. E. R. Knight. No. 995,469; June 20; Sp. p. 2991; Gaz. vol. 167; p. 534.
Induction-motor. M. O. Berthold. No. 998,868; July 25; Sp. p. 4974; Gaz. vol. 168; p. 893.
Induction-motor. E. Marelli. No. 1,002,718; Sept. 5; Sp. p. 1203; Gaz. vol. 170; p. 180.
Induction-motor. A. M. Gray. No. 1,002,837; Sept. 12; Sp. p. 1457; Gaz. vol. 170; p. 258.
Induction-motor. J. L. Johnson. No. 1,002,850; Sept. 12; Sp. p. 1484; Gaz. vol. 170; p. 263.
Induction-motor. J. B. Wiard. No. 1,003,839; Sept. 19; Sp. p. 3584; Gaz. vol. 170; p. 637.
Induction-motor. R. E. Hellmund. No. 1,011,783; Dec. 12; Sp. p. 3102; Gaz. vol. 173; p. 520.
Induction- motor. A. M. Gray. No. 1,011,944; Dec. 19; Sp. p. 3480; Gaz. vol. 173; p. 609.
Inductive disturbances, Neutralizing. J. B. Taylor. No. 996,376; June 27; Sp. p. 5020; Gaz. vol. 167; p. 884.
Inductive disturbances, Neutralizing. J. B. Taylor. No. 1,010,982; Dec. 5; Sp. p. 1282; Gaz. vol. 173; p. 203.
Infant's chair. L. E. Hansche. No. 1,000,801; Aug. 15; Sp. p. 3426; Gaz. vol. 169; p. 616.
Inflammable liquids and fractional delivery thereof, Storage of large quantities of. W. Heer. No. 1,010,140; Nov. 28; Sp. p. 5492; Gaz. vol. 172; p. 983.
Inflatable-article fabric. T. H. B. Gayner. No. 982,049; Jan. 17; Sp. p. 4196; Gaz. vol. 162; p. 699.
Inflated ball. J. E. Whistler. No. 992,832; May 23; Sp. p. 4283; Gaz. vol. 166; p. 790.
Ingot. R. B. Carnahan, Jr. No. 987,857; Mar. 28; Sp. p. 4430; Gaz. vol. 164; p. 806.
Ingot-casting machine. G. M. Clark, Jr. No. 992,853; May 23; Sp. p. 4333; Gaz. vol. 166; p. 797.
Ingot-core, Contractible. C. F. Murray and P. M. Reilly. No. 990,286; Apr. 25; Sp. p. 4282; Gaz. vol. 165; p. 763.
Ingot-mold. E. Evans. No. 1,005,773; Oct. 10; Sp. p. 2627; Gaz. vol. 171; p. 453.
Ingot-mold shaker. F. Bruckmann. No. 1,010,851; Dec. 5; Sp. p. 1016; Gaz. vol. 173; p. 158.
Ingot-stripping mechanism. D. Kendall. No. 1,002,586; Sept. 5; Sp. p. 902; Gaz. vol. 170; p. 134.
Inhaler. J. Wilkie. No. 987,204; Mar. 21; Sp. p. 3058; Gaz. vol. 164; p. 554.
Inhaler. J. D. Kerr. No. 988,352; Apr. 4; Sp. p. 126; Gaz. vol. 165; p. 23.
Inhaler, Nasal. W. M. Richards. No. 1,009,180; Nov. 21; Sp. p. 3433; Gaz. vol. 172; p. 608.
Inhaling apparatus. F. A. Holleman. No. 999,451; Aug. 1; Sp. p. 511; Gaz. vol. 169; p. 89.
Inhaling device. I. Palócz. No. 994,869; June 13; Sp. p. 1706; Gaz. vol. 167; p. 305.
Initiation apparatus. E. De Moulin. No. 1,004,857; Oct. 3; Sp. p. 673; Gaz. vol. 171; p. 110.
Injector. W. H. Stirling. No. 987,769; Mar. 28; Sp. p. 4252; Gaz. vol. 164; p. 775.
Injector. D. W. Patton. No. 1,000,548; Aug. 15; Sp. p. 2865; Gaz. vol. 169; p. 525.
Injector-burner. N. S. Sibert. No. 988,216; Mar. 28; Sp. p. 5222; Gaz. vol. 164; p. 926.
Injector, Steam-. R. G. Brooke. No. 991,268; May 2; Sp. p. 946; Gaz. vol. 166; p. 159.
Ink-distributer. A. E. Berreyesa. No. 991,193; May 2; Sp. p. 782; Gaz. vol. 166; p. 132.
Ink-fountain. C. H. Raymond. No. 981,110; Jan. 10; Sp. p. 2131; Gaz. vol. 162; p. 352.
Ink-fountain. H. Rolle. No. 992,690; May 16; Sp. p. 3978; Gaz. vol. 166; p. 710.
Ink-fountain. T. J. Russo. No. 994,035; May 30; Sp. p. 6856; Gaz. vol. 166; p. 1231.
Ink from paper, Removing. J. E. Bonser. No. 1,008,779; Nov. 14; Sp. p. 2604; Gaz. vol. 172; p. 437.
Ink from printed paper by means of bleaching substances having an alkaline action, Removing printers'. H. Henkel and O. Gessler. No. 988,874; Apr. 4; Sp. p. 1230; Gaz. vol. 165; p. 196.
Ink or coloring-matter from paper, Removing. W. B. Meixell. No. 989,023; Apr. 11; Sp. p. 1540; Gaz. vol. 165; p. 269.
Ink retainer, Printing-. C. Bush. No. 1,007,525; Oct. 31; Sp. p. 6536; Gaz. vol. 171; p. 1182.
Ink-roller protector. W. O. Dray. No. 1,000,331; Aug. 8; Sp. p. 2350; Gaz. vol. 169; p. 416.
Ink-stick. H. N. De Lanoy. No. 994,724; June 13; Sp. p. 1365; Gaz. vol. 167; p. 255.
Ink-well. F. D. Banning. No. 988,849; Apr. 4; Sp. p. 1182; Gaz. vol. 165; p. 188.
Ink-well. W. B. Cogger. No. 993,347; May 30; Sp. p. 5393; Gaz. vol. 166; p. 996.
Ink-well. W. H. Johnson. No. 1,001,276; Aug. 22; Sp. p. 4462; Gaz. vol. 169; p. 810.
Ink-well. L. J. Schaefer and W. T. Thomson. No. 1,008,074; Nov. 7; Sp. p. 918; Gaz. vol. 172; p. 147.
Ink-well. S. E. Anderson. No. 1,008,297; Nov. 14; Sp. p. 1429; Gaz. vol. 172; p. 267.
Ink-well. C. R. Button. No. 1,011,882; Dec. 12; Sp. p. 3324; Gaz. vol. 173; p. 552.
Ink-well filler. D. Wills. No. 980,722; Jan. 3; Sp. p. 1176; Gaz. vol. 162; p. 187.
Ink-wells, Gageable dip-cup for. A. F. Hurd. No. 999,168; July 25; Sp. p. 5592; Gaz. vol. 168; p. 995.
Inking and damping mechanisms, Controlling device for. W. J. Main. No. 999,510; Aug. 1; Sp. p. 624; Gaz. vol. 169; p. 108.
Inking apparatus, Apparatus for regulating the color-feeding in. E. Albert. No. 984,991; Feb. 21; Sp. p. 3712; Gaz. vol. 163; p. 656.
Inking appliance. R. C. Newton. No. 987,814; Mar. 28; Sp. p. 4340; Gaz. vol. 164; p. 790.
Inking device. P. Martin. No. 1,012,567; Dec. 19; Sp. p. 4799; Gaz. vol. 173; p. 824.
Inking machine, Edge-. A. W. Redin. No. 981,003; Jan. 10; Sp. p. 1897; Gaz. vol. 162; p. 314.
Inking-pad. A. Woodruff. No. 1,005,679; Oct. 10; Sp. p. 2444; Gaz. vol. 171; p. 420.
Inkstand. F. M. Ashley. No. 985,319; Feb. 28; Sp. p. 4467; Gaz. vol. 163; p. 804.
Inkstand. F. M. Ashley. No. 986,536; Mar. 14; Sp. p. 1653; Gaz. vol. 164; p. 294.
Inkstand. F. M. Ashley. No. 993,813; May 30; Sp. p. 6422; Gaz. vol. 166; p. 1157.
Inkstand, Combination-. W. D. Hearron. No. 1,010,364; Nov. 28; Sp. p. 5944; Gaz. vol. 172; p. 1057.
Inner tube. J. T. Lister. No. 986,637; Mar. 14; Sp. p. 1865; Gaz. vol. 164; p. 331.
Insect catcher and destroyer. G. De Kerlegand. No. 992,406; May 16; Sp. p. 3402; Gaz. vol. 166; p. 612.
Insect catching and destroying trap. G. Maire. No. 1,012,566; Dec. 19; Sp. p. 4797; Gaz. vol. 173; p. 824.
Insect-catching means. R. A. Hampton. No. 1,000,514; Aug. 15; Sp. p. 2773; Gaz. vol. 169; p. 513.
Insect-collecting machine. A. Meek. No. 986,193; Mar. 7; Sp. p. 910; Gaz. vol. 164; p. 147.
Insect-destroyer. E. R. Lyon. No. 986,925; Mar. 14; Sp. p. 2476; Gaz. vol. 164; p. 428.
Insect-destroyer. H. E. Seibert. No. 1,000,556; Aug. 15; Sp. p. 2880; Gaz. vol. 169; p. 528.
Insect-destroyer. J. T. Loomis. No. 1,003,278; Sept. 12; Sp. p. 2404; Gaz. vol. 170; p. 413.
Insect-destroyer. L. D. Powers. No. 1,006,271; Oct. 17; Sp. p. 3756; Gaz. vol. 171; p. 660.
Insect-destroyer. T. D. Ware. No. 1,007,620; Oct. 31; Sp. p. 6747; Gaz. vol. 171; p. 1214.
Insect-destroyer. W. W. Garner and O. T. Rush. No. 1,007,858; Nov. 7; Sp. p. 494; Gaz. vol. 172; p. 74.
Insect-destroyer. E. M. Rea and E. A. Olden. No. 1,012,437; Dec. 19; Sp. p. 4543; Gaz. vol. 173; p. 778.
Insect-destroying apparatus. W. M. and L. H. Crow. No. 993,036; May 23; Sp. p. 4734; Gaz. vol. 166; p. 862.
Insect-destroying apparatus. A. Brisbane. No. 993,644; May 30; Sp. p. 6042; Gaz. vol. 166; p. 1098.

Alphabetical list of inventions—Continued.

Insect-destroying device. D. M. Oneal. No. 1,012,420; Dec. 19; Sp. p. 4510; Gaz. vol. 173; p. 772.
Insect-destroying machine. D. Bollinger. No. 1,010,578; Dec. 5; Sp. p. 399; Gaz. vol. 173; p. 63.
Insect-exterminating machine. L. C. Hill. No. 996,337; June 27; Sp. p. 4942; Gaz. vol. 167; p. 870.
Insect-exterminator. P. Soss, Jr. No. 988,517; Apr. 4; Sp. p. 488; Gaz. vol. 165; p. 77.
Insect-exterminator. E. Prytz. No. 1,008,196; Nov. 7; Sp. p. 1171; Gaz. vol. 172; p. 192.
Insect-poisons, Ornamental holder for. L. T. Bushbaum. No. 992,108; May 9; Sp. p. 2674; Gaz. vol. 166; p. 476.
Insect-trap. R. Hazelrigg. No. 980,253; Jan. 3; Sp. p. 141; Gaz. vol. 162; p. 28.
Insect-trap. R. N. Wood. No. 983,468; Feb. 7; Sp. p. 456; Gaz. vol. 163; p. 72.
Insect-trap. W. A. Wallace. No. 987,841; Mar. 28; Sp. p. 4397; Gaz. vol. 164; p. 800.
Insect-trap. F. M. La Baum. No. 988,476; Apr. 4; Sp. p. 400; Gaz. vol. 165; p. 64.
Insect-trap. G. T. Rea. No. 993,547; May 30; Sp. p. 5838; Gaz. vol. 166; p. 1064.
Insect-trap. W. Nemsey. No. 995,280; June 13; Sp. p. 2548; Gaz. vol. 167; p. 441.
Insect-trap. R. J. Russel. No. 995,911; June 20; Sp. p. 3970; Gaz. vol. 167; p. 689.
Insect-trap. W. H. McDonald. No. 1,005,567; Oct. 10; Sp. p. 2203; Gaz. vol. 171; p. 381.
Insect-trap. C. W. Fischer. No. 1,008,250; Nov. 7; Sp. p. 1298; Gaz. vol. 172; p. 212.
Insect-trap. W. S. Robinson. No. 1,009,580; Nov. 21; Sp. p. 4354; Gaz. vol. 172; p. 750.
Insects from vines, Device for dislodging. O. G. Saxton. No. 1,012,450; Dec. 19; Sp. p. 4565; Gaz. vol. 173; p. 782.
Insecticide. W. C. Carnell. No. 997,601; July 11; Sp. p. 2075; Gaz. vol. 168; p. 371.
Insecticide. M. F. Porter. No. 1,010,797; Dec. 5; Sp. p. 885; Gaz. vol. 173; p. 139.
Insecticide-applying machine. H. J. Theim. No. 999,275; Aug. 1; Sp. p. 156; Gaz. vol. 169; p. 30.
Insecticide-holder. L. S. Hill. No. 981,264; Jan. 10; Sp. p. 2506; Gaz. vol. 162; p. 407.
Insecticide or fungicide compound. R. H. Hutchinson. No. 1,001,852; Aug. 29; Sp. p. 5670; Gaz. vol. 169; p. 1038.
Insecticide producing and spraying apparatus. J. T. Hill. No. 985,174; Feb. 28; Sp. p. 4147; Gaz. vol. 163; p. 754.
Insole and arch-support, Pneumatic. M. Byrne. No. 989,894; Apr. 18; Sp. p. 3429; Gaz. vol. 165; p. 598.
Insole and instep-supporter, Combined. W. H. Fassig. No. 988,449; Apr. 4; Sp. p. 341; Gaz. vol. 165; p. 55.
Insole cutter and paster. G. T. Stockton. No. 996,734. July 4; Sp. p. 266; Gaz. vol. 168; p. 47.
Insole-duck cutter and paster. G. T. Stockton. No. 999,065; July 25; Sp. p. 5408; Gaz. vol. 168; p. 963.
Insole-making machine. W. Gordon. No. 989,142; Apr. 11; Sp. p. 1782; Gaz. vol. 165; p. 310.
Insole-reinforcing machine. C. P. Stanbon. (Reissue.) No. 13,278; July 25; Sp. p. 5647; Gaz. vol. 168; p. 1006.
Insole, Shoe-. D. Austin. No. 981,154; Jan. 10; Sp. p. 2231; Gaz. vol. 162; p. 368.
Insole-tacking jack. W. F. De Silver. No. 1,007,851; Nov. 7; Sp. p. 481; Gaz. vol. 172; p. 71.
Instep-arch support. W. M. Scholl. No. 990,458; Apr. 25; Sp. p. 4693; Gaz. vol. 165; p. 825.
Instep-support. P. Stayert. No. 990,675; Apr. 25; Sp. p. 5205; Gaz. vol. 165; p. 898.
Instrument, Compound. G. F Hall. No. 997,551; July 11; Sp. p. 1970; Gaz. vol. 168; p. 352.
Insulated can. F. W. Niebling. No. 982,848; Jan. 31; Sp. p. 5858; Gaz. vol. 162; p. 1031.
Insulated receptacle. H. B. Seely. No. 995,188; June 13; Sp. p. 2373; Gaz. vol. 167; p. 411.
Insulating apparatus. M. Meirowsky. No. 989,791; Apr. 18; Sp. p. 3226; Gaz. vol. 165; p. 564.
Insulating-board. S. Cabot. No. 991,271; May 2; Sp. p. 953; Gaz. vol. 166; p. 160.
Insulating-bushing. L. C. Nichols. No. 996,878; July 4; Sp. p. 576; Gaz. vol. 168; p. 95.
Insulating canopies for electrical distribution systems, Means for. G. A. Lutz. No. 994,474; June 6; Sp. p. 752; Gaz. vol. 167; p. 129.
Insulating-cap. J. C. Phelps. No. 986,213; Mar. 7; Sp. p. 947; Gaz. vol. 164; p. 154.
Insulating composition. W. Rumel. No. 1,000,295; Aug. 8; Sp. p. 2290; Gaz. vol. 169; p. 406.
Insulating compound. E. O. Leggett. No. 1,005,240; Oct. 10; Sp. p. 1442; Gaz. vol. 171; p. 263.
Insulating compound. L. E. Barringer. No. 1,009,630; Nov. 21; Sp. p. 4437; Gaz. vol. 172; p. 764.
Insulating-cover for electric switches. M. Guett. No. 981,553; Jan. 10; Sp. p. 3105; Gaz. vol. 162; p. 506.
Insulating device for electric cables. P. Carolan. No. 1,011,118; Dec. 5; Sp. p. 1577; Gaz. vol. 173; p. 250.
Insulating electric conduits, Process and apparatus for. C. Thibodeau. No. 1,008,572; Nov. 14; Sp. p. 2145; Gaz. vol. 172; p. 365.
Insulating material. E. A. Merrill. No. 1,003,773; Sept. 19; Sp. p. 3471; Gaz. vol. 170; p. 617.
Insulating material for embedding electrical conductors. L. E. Barringer. No. 1,009,035; Nov. 21; Sp. p. 3144; Gaz. vol. 172; p. 558.
Insulating means for pipes and the like. H. Kumpf. No. 990,658; Apr. 25; Sp. p. 5151; Gaz. vol. 165; p. 893.
Insulating-receptacle. L. W. Puffer. No. 999,672; Aug. 1; Sp. p. 938; Gaz. vol. 169; p. 164.
Insulating-sheet. C. S. Bird. No. 999,951; Aug. 8; Sp. p. 1522; Gaz. vol. 169; p. 288.
Insulating-spacer. L. P. Dickey. No. 1,004,685; Oct. 3; Sp. p. 291; Gaz. vol. 171; p. 49.
Insulating structure. A. B. Reynders and J. E. Mateer. No. 984,156; Feb. 14; Sp. p. 1954; Gaz. vol. 163; p. 335.
Insulating the twisted ends of electric wires, Device for. J. Krannichfeldt. No. 997,066; July 4; Sp. p. 1005; Gaz. vol. 168; p. 161.
Insulating-tube. C. L. Fortescue. No. 984,129; Feb. 14; Sp. p. 1901; Gaz. vol 163; p 326.
Insulating-tubes, Forming. W. R. Seigle. No. 981,129; Jan. 10; Sp. p. 2181; Gaz. vol. 162; p. 359.
Insulating-tubes, Machine for making. E. W. Höfle. No. 1,008,149; Nov. 7; Sp. p. 1070; Gaz. vol. 172; p. 175.
Insulation-cutter. E. F. Chytraus. No. 1,011,157; Dec. 12; Sp. p. 1699; Gaz. vol. 173; p. 299.
Insulation, Mica. J. L. Cooper and A. J. Sweet. No. 985,399; Feb. 28; Sp. p. 4626; Gaz. vol. 163; p. 829.
Insulation of windings in electrical apparatus. G. Honold. No. 1,010,791; Dec. 12; Sp. p. 3133; Gaz. vol. 173; p. 523.
Insulator. D. H. Friend. No. 986,702; Mar. 14; Sp. p. 2000; Gaz. vol. 164; p. 352.
Insulator. M. E. Anderson. No. 992,397; May 16; Sp. p. 3382; Gaz. vol. 166; p. 609.
Insulator. W. Weicker. No. 992,462; May 16; Sp. p. 3504; Gaz. vol. 166; p. 631.
Insulator. H. R. Markel. No. 992,570; May 16; Sp. p. 3745; Gaz. vol. 166; p. 670.
Insulator. T. D. Childress. No. 996,312; June 27; Sp. p. 4878; Gaz. vol. 167; p. 860.
Insulator. W. S. Moore. No. 996,782; July 4; Sp. p. 362; Gaz. vol. 168; p. 62.
Insulator. A. B. Tinsley. No. 999,683; Aug. 1; Sp. p. 957; Gaz. vol. 169; p. 167.
Insulator. L. McCarthy. No. 1,000,535; Aug. 15; Sp. p. 2826; Gaz. vol. 169; p. 520.
Insulator. J. Alsberg. No. 1,006,040; Oct. 17; Sp. p. 3225; Gaz. vol. 171; p. 578.
Insulator. J. Alsberg. No. 1,006,041; Oct. 17; Sp. p. 3227; Gaz. vol. 171; p. 578.
Insulator. J. Alsberg. No. 1,006,042; Oct. 17; Sp. p. 3230; Gaz. vol. 171; p. 578.
Insulator. J. M. Sweeney. No. 1,008,087; Nov. 7; Sp. p. 942; Gaz. vol. 172; p. 152.
Insulator. T. H. Watkins. No. 1,009,810; Nov. 28; Sp. p. 4813; Gaz. vol. 172; p. 872.
Insulator. S. S. Cornelius. No. 1,011,164; Dec. 12; Sp. p. 1723; Gaz. vol. 173; p. 301.
Insulator-bracket. C. G. Ette. No. 1,000,389; Aug. 15; Sp. p. 2506; Gaz. vol. 169; p. 469.
Insulator-bracket. C. L. Peirce, Jr. No. 1,006,268; Oct. 17; Sp. p. 3750; Gaz. vol. 171; p. 659.
Insulator-bracket. C. L. Peirce, Jr. No. 1,007,138; Oct. 31; Sp. p. 5704; Gaz. vol. 171; p. 1046.
Insulator-bracket for electrical work. F. K. Spencer and O. Bennett. No. 998,649; July 25; Sp. p. 4466; Gaz. vol. 168; p. 816.
Insulator, Electric. G. W. Chaffin. No. 998,073; July 18; Sp. p. 3197; Gaz. vol. 168; p. 579.
Insulator for electric conductors, Section-. W. G. Hamilton. No. 995,133; June 13; Sp. p. 2259; Gaz. vol. 167; p. 393.
Insulator for electric installation-canopies. G. W. Gardiner. No. 983,701; Feb. 7; Sp. p. 961; Gaz. vol. 163; p. 152.
Insulator for electric-railway cars. J. Christensen. No. 1,000,493; Aug. 15; Sp. p. 2735; Gaz. vol. 169; p. 506.
Insulator, High-tension. B. D. Kenney. No. 1,010,920; Dec. 5; Sp. p. 1164; Gaz. vol. 173; p. 182.
Insulator, High-tension strain-. L. Steinberger. No. 999,414; Aug. 1; Sp. p. 439; Gaz. vol. 169; p. 77.
Insulator, High-voltage. F. M. Locke. No. 998,359; July 18; Sp. p. 3846; Gaz. vol. 168; p. 683.
Insulator-line-attaching device. L. W. Ridenour. No. 992,595; May 16; Sp. p. 3817; Gaz. vol. 166; p. 679.
Insulator-pin. C. G. Ette. No. 995,123; June 13; Sp. p. 2239; Gaz. vol. 167; p. 390.
Insulator-pin machine. F. Schanzmeyer. No. 994,607; June 6; Sp. p. 1047; Gaz. vol. 167; p. 174.
Insulator pin or bracket machine. E. Carver. No. 997,269; July 11; Sp. p. 1416; Gaz. vol. 168; p. 260.
Insulator-protector. J. E. Field. No. 983,039; Jan. 31; Sp. p. 6302; Gaz. vol. 162; p. 1095.
Insulator-protector. W. T. Goddard. No. 1,001,137; Aug. 22; Sp. p. 4192; Gaz. vol. 169; p. 767.
Insulator, Sectional. A. O. Austin. No. 1,010,011; Nov. 28; Sp. p. 5240; Gaz. vol. 172; p. 938.
Insulator, Split-knob. H. H. Dupont. No. 981,074; Jan. 10; Sp. p. 2063; Gaz. vol. 162; p. 340.
Insulator, Strain-. W. Schaake. No. 1,010,077; Nov. 28; Sp. p. 5372; Gaz. vol. 172; p. 963.

Insulator, Strain-. L. Steinberger. No. 1,011,652; Dec. 12; Sp. p. 2854; Gaz. vol. 173; p. 476.
Insulator-support. A. Scheible. No. 985,707; Feb. 28; Sp. p. 5351; Gaz. vol. 163; p. 937.
Insulator-support. W. L. Chamberlain. No. 989,231; Apr. 11; Sp. p. 1980; Gaz. vol. 165; p. 340.
Insulator-support. E. O. Sessions. No. 1,012,724; Dec. 26; Sp. p. 5159; Gaz. vol. 173; p. 924.
Insulator, Suspended. C. W. Schultz. No. 983,573; Feb. 7; Sp. p. 696; Gaz. vol. 163; p. 108.
Insurance-policy, Post-card. G. S. Penfield. No. 1,000,623; Aug. 15; Sp. p. 3052; Gaz. vol. 169; p. 554.
Integrator, Automatic. F. E. Pendleton. No. 987,165; Mar. 21; Sp. p. 2969; Gaz. vol. 164; p. 539.
Intercepting-trap. W. T. Duncan. No. 981,593; Jan. 10; Sp. p. 3185; Gaz. vol. 162; p. 520.
Interchangeable engine. E. M. Coryell. No. 1,000,584; Aug. 15; Sp. p. 2953; Gaz. vol. 169; p. 540.
Interconvertible chair or table. E. C. Steele. No. 1,010,086; Nov. 28; Sp. p. 5388; Gaz. vol. 172; p. 966.
Interlocking-hook fabric. G. B. Smith. No. 981,888; Jan. 17; Sp. p. 3803; Gaz. vol. 162; p. 644.
Intermittent coupling, Automatic. C. Trog. No. 1,006,806; Oct. 24; Sp. p. 4954; Gaz. vol. 171; p. 877.
Intermittent-operating mechanism. N. W. Young. No. 1,008,766; Nov. 14; Sp. p. 2574; Gaz. vol. 172; p. 433.
Internal-combustion and fluid-pressure engine, Combined. H. B. Stocks. No. 1,011,520; Dec. 12; Sp. p. 2514; Gaz. vol. 173; p. 428.
Internal-combustion apparatus, Constant-pressure. E. P. Noyes. No. 987,160; Mar. 21; Sp. p. 2940; Gaz. vol. 164; p. 537.
Internal-combustion engine. H. L. F. Trebert. No. 980,366; Jan. 3; Sp. p. 377; Gaz. vol. 162; p. 67.
Internal-combustion engine. J. S. Cortelyou. No. 980,494; Jan. 3; Sp. p. 692; Gaz. vol. 162; p. 112.
Internal-combustion engine. T. A. Leavitt. No. 980,537; Jan. 3; Sp. p. 787; Gaz. vol. 162; p. 126.
Internal-combustion engine. O. Ohlsson. No. 980,552; Jan. 3; Sp. p. 817; Gaz. vol. 162; p. 132.
Internal-combustion engine. O. Kraus. No. 980,801; Jan. 3; Sp. p. 1327; Gaz. vol. 162; p. 214.
Internal-combustion engine. T. W. Heermans. No. 980,946; Jan. 10; Sp. p. 1698; Gaz. vol. 162; p. 293.
Internal-combustion engine. E. W. Stevens. No. 981,811; Jan. 17; Sp. p. 3648; Gaz. vol. 162; p. 617.
Internal-combustion engine. C. Sintz. No. 981,952; Jan. 17; Sp. p. 3999; Gaz. vol. 162; p. 667.
Internal-combustion engine. R. W. Coffee. No. 982,251; Jan. 24; Sp. p. 4588; Gaz. vol. 162; p. 797.
Internal-combustion engine. M. T. Anderson. No. 983,109; Jan. 31; Sp. p. 6437; Gaz. vol. 162; p. 1118.
Internal-combustion engine. D. Clerk. No. 983,206; Jan. 31; Sp. p. 6607; Gaz. vol. 162; p. 1150.
Internal-combustion engine. W. J. Perkins. No. 983,307; Feb. 7; Sp. p. 104; Gaz. vol. 163; p. 19.
Internal-combustion engine. L. A. Vallillee. No. 983,328; Feb. 7; Sp. p. 151; Gaz. vol. 163; p. 27.
Internal-combustion engine. T. Turnbull, Jr. No. 983,583; Feb. 7; Sp. p. 718; Gaz. vol. 163; p. 111.
Internal-combustion engine. G. F. Murphy. No. 984,695; Feb. 21; Sp. p. 3138; Gaz. vol. 163; p. 556.
Internal-combustion engine. A. E. Osborn. No. 985,198; Feb. 28; Sp. p. 4194; Gaz. vol. 163; p. 763.
Internal-combustion engine. A. B. Brown. No. 985,507; Feb. 28; Sp. p. 4898; Gaz. vol. 163; p. 868.
Internal-combustion engine. H. J. Podlešák. No. 985,703; Feb. 28; Sp. p. 5339; Gaz. vol. 163; p. 936.
Internal-combustion engine. A. B. Brown and W. A. Hickman. No. 986,353; Mar. 7; Sp. p. 1249; Gaz. vol. 164; p. 202.
Internal-combustion engine. N. E. Davies. No. 986,552; Mar. 14; Sp. p. 1693; Gaz. vol. 164; p. 300.
Internal-combustion engine. J. H. Batchelor and H. H. Smith. No. 987,848; Mar. 28; Sp. p. 4410; Gaz. vol. 164; p. 803.
Internal-combustion engine. G. W. Brown. No. 987,852; Mar. 28; Sp. p. 4418; Gaz. vol. 164; p. 804.
Internal-combustion engine. P. Okey. No. 988,021; Mar. 28; Sp. p. 4849; Gaz. vol. 164; p. 862.
Internal-combustion engine. E. C. Newcomb. No. 988,374; Apr. 4; Sp. p. 181; Gaz. vol. 165; p. 30.
Internal-combustion engine. F. J. Moser. No. 989,391; Apr. 11; Sp. p. 2331; Gaz. vol. 165; p. 394.
Internal-combustion engine. R. F. Herpolsheimer. No. 989,972; Apr. 18; Sp. p. 3610; Gaz. vol. 165; p. 625.
Internal-combustion engine. J. N. Kieffer. No. 989,984; Apr. 18; Sp. p. 3642; Gaz. vol. 165; p. 630.
Internal-combustion engine. U. S. Traub. No. 990,082; Apr. 18; Sp. p. 3816; Gaz. vol. 165; p. 662.
Internal-combustion engine. H. E. Woolery. No. 990,326; Apr. 25; Sp. p. 4391; Gaz. vol. 165; p. 777.
Internal-combustion engine. J. A. Giles. No. 990,974; May 2; Sp. p. 309; Gaz. vol. 166; p. 54.
Internal-combustion engine. J. A. Scott. No. 991,029; May 2; Sp. p. 419; Gaz. vol. 166; p. 72.
Internal-combustion engine. L. Woodworth. No. 991,406; May 2; Sp. p. 1233; Gaz. vol. 166; p. 206.
Internal-combustion engine. D. M. Tuttle. No. 994,696; June 6; Sp. p. 1266; Gaz. vol. 167; p. 206.
Internal-combustion engine. C. M. Garland. No. 995,530; June 20; Sp. p. 3127; Gaz. vol. 167; p. 556.
Internal-combustion engine. H. F. Fullagar. No. 995,857; June 20; Sp. p. 3864; Gaz. vol. 167; p. 671.
Internal-combustion engine. H. F. Fullagar. No. 995,858; June 20; Sp. p. 3868; Gaz. vol. 167; p. 672.
Internal-combustion engine. C. B. Baldwin. No. 996,196; June 27; Sp. p. 4614; Gaz. vol. 167; p. 823.
Internal-combustion engine. E. Hoiland. No. 996,339; June 27; Sp. p. 4945; Gaz. vol. 167; p. 870.
Internal-combustion engine. W. D. Edwards. No. 996,626; July 4; Sp. p. 67; Gaz. vol. 168; p. 12.
Internal-combustion engine. G. R. Harvey. No. 997,190; July 4; Sp. p. 1246; Gaz. vol. 168; p. 202.
Internal-combustion engine. F. X. Bachle and J. C. L. Krebs. No. 997,258; July 11; Sp. p. 1391; Gaz. vol. 168; p. 257.
Internal-combustion engine. W. I. Twombly. No. 997,480; July 11; Sp. p. 1821; Gaz. vol. 168; p. 330.
Internal-combustion engine. S. G. Wigelius. No. 997,643; July 11; Sp. p. 2186; Gaz. vol. 168; p. 387.
Internal-combustion engine. A. Butsch. No. 998,463; July 18; Sp. p. 4050; Gaz. vol. 168; p. 718.
Internal-combustion engine. E. Franklin. No. 998,570; July 18; Sp. p. 4271; Gaz. vol. 168; p. 754.
Internal-combustion engine. J. D. Fullerton. No. 1,000,085; Aug. 8; Sp. p. 1844; Gaz. vol. 169; p. 333.
Internal-combustion engine. G. F. Swain. No. 1,000,128; Aug. 8; Sp. p. 1939; Gaz. vol. 169; p. 349.
Internal-combustion engine. R. B. Otis. No. 1,000,192; Aug. 8; Sp. p. 2081; Gaz. vol. 169; p. 370.
Internal-combustion engine. G. Holloway. No. 1,001,404; Aug. 22; Sp. p. 4748; Gaz. vol. 169; p. 856.
Internal-combustion engine. A. M. Clément. No. 1,001,506; Aug. 22; Sp. p. 4916; Gaz. vol. 169; p. 888.
Internal-combustion engine. S. Jachimovicz. No. 1,001,595; Aug. 22; Sp. p. 5101; Gaz. vol. 169; p. 918.
Internal-combustion engine. W. E. Adams. No. 1,001,600; Aug. 29; Sp. p. 5125; Gaz. vol. 169; p. 951.
Internal-combustion engine. O. C. Steglat. No. 1,001,782; Aug. 29; Sp. p. 5514; Gaz. vol. 169; p. 1013.
Internal-combustion engine. A. A. Baltezor. No. 1,002,626; Sept. 5; Sp. p. 1003; Gaz. vol. 170; p. 149.
Internal-combustion engine. R. A. Reynolds. No. 1,002,756; Sept. 5; Sp. p. 1280; Gaz. vol. 170; p. 192.
Internal-combustion engine. J. Shaw. No. 1,003,127; Sept. 12; Sp. p. 2078; Gaz. vol. 170; p. 358.
Internal-combustion engine. P. H. F. Spies. No. 1,003,535; Sept. 19; Sp. p. 2929; Gaz. vol. 170; p. 535.
Internal-combustion engine. W. Rabsilber. No. 1,003,795; Sept. 19; Sp. p. 3504; Gaz. vol. 170; p. 623.
Internal-combustion engine. H. H. Simon. No. 1,004,095; Sept. 26; Sp. p. 4235; Gaz. vol. 170; p. 755.
Internal-combustion engine. C. H. Inman. No. 1,004,432; Sept. 26; Sp. p. 4940; Gaz. vol. 170; p. 869.
Internal-combustion engine. R. G. Gaskill. No. 1,004,564; Oct. 3; Sp. p. 34; Gaz. vol. 171; p. 7.
Internal-combustion engine. R. Schoeck. No. 1,004,696; Oct. 3; Sp. p. 310; Gaz. vol. 171; p. 53.
Internal-combustion engine. W. M. Appleton. No. 1,004,720; Oct. 3; Sp. p. 379; Gaz. vol. 171; p. 62.
Internal-combustion engine. O. L. Borner. No. 1,004,979; Oct. 3; Sp. p. 911; Gaz. vol. 171; p. 151.
Internal-combustion engine. F. Oberhänsli. No. 1,005,457; Oct. 10; Sp. p. 1931; Gaz. vol. 171; p. 341.
Internal-combustion engine. T. E. Friend. No. 1,005,701; Oct. 10; Sp. p. 2491; Gaz. vol. 171; p. 427.
Internal-combustion engine. H. B. Ross. No. 1,006,132; Oct. 17; Sp. p. 3429; Gaz. vol. 171; p. 609.
Internal-combustion engine. C. E. Duryea. No. 1,007,277; Oct. 31; Sp. p. 6003; Gaz. vol. 171; p. 1095.
Internal-combustion engine. F. L. Dyer. No. 1,007,278; Oct. 31; Sp. p. 6005; Gaz. vol. 171; p. 1096.
Internal-combustion engine. R. A. Reynolds. No. 1,007,491; Oct. 31; Sp. p. 6460; Gaz. vol. 171; p. 1170.
Internal-combustion engine. E. C. Newcomb. No. 1,008,188; Nov. 7; Sp. p. 1151; Gaz. vol. 172; p. 190.
Internal-combustion engine. T. Reuter. No. 1,008,863; Nov. 14; Sp. p. 2761; Gaz. vol. 172; p. 465.
Internal-combustion engine. W. S. Thomson. No. 1,009,941; Nov. 28; Sp. p. 5072; Gaz. vol. 172; p. 915.
Internal-combustion engine. T. Veitch. No. 1,009,945; Nov. 28; Sp. p. 5083; Gaz. vol. 172; p. 917.
Internal-combustion engine. A. Alltree. No. 1,010,566; Dec. 5; Sp. p. 366; Gaz. vol. 173; p. 58.
Internal-combustion engine. A. E. Hall. No. 1,010,754; Dec. 5; Sp. p. 793; Gaz. vol. 173; p. 124.
Internal-combustion engine. A. Potdevin. No. 1,010,798; Dec. 5; Sp. p. 886; Gaz. vol. 173; p. 139.
Internal-combustion engine. G. A. Metcalf and L. T. Rocheleau. No. 1,010,939; Dec. 5; Sp. p. 1201; Gaz. vol. 173; p. 188.
Internal-combustion engine. D. E. Coles. No. 1,011,032; Dec. 5; Sp. p. 1378; Gaz. vol. 173; p. 220.
Internal-combustion engine. F. A. Thurston. No. 1,011,275; Dec. 12; Sp. p. 1987; Gaz. vol. 173; p. 341.
Internal-combustion engine. A. E. Osborn. No. 1,011,480; Dec. 12; Sp. p. 2425; Gaz. vol. 173; p. 414.
Internal-combustion engine. A. H. Forsythe. No. 1,011,601; Dec. 12; Sp. p. 2731; Gaz. vol. 173; p. 458.

Alphabetical list of inventions—Continued.

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Internal-combustion engine. A. Vogt. No. 1,012,769; Dec. 26; Sp. p. 5240; Gaz. vol. 173; p. 938.
Internal-combustion engine applicable to submarine boats. P. Winand. No. 1,003,565; Sept. 19; Sp. p. 3019; Gaz. vol. 170; p. 544.
Internal-combustion engine, Double-acting two-cycle. J. E. Brown. No. 1,007,331; Oct. 31; Sp. p. 6116; Gaz. vol. 171; p. 1115.
Internal-combustion engine for air-compression purposes. F. E. Jackson. No. 1,003,909; Sept. 19; Sp. p. 3715; Gaz. vol. 170; p. 662.
Internal-combustion engine, Multicylinder. H. T. Bruns. No. 1,008,693; Nov. 14; Sp. p. 2407; Gaz. vol. 172; p. 407.
Internal-combustion engine, Stage-compression. S. A. Reeve. No. 1,005,469; Oct. 10; Sp. p. 1953; Gaz. vol. 171; p. 345.
Internal-combustion engine, Two-cycle. D. I. Twitchell. No. 981,331; Jan. 10; Sp. p. 2642; Gaz. vol. 162; p. 430.
Internal-combustion engine, Two-cycle. T. H. Haberkorn. No. 1,004,021; Sept. 26; Sp. p. 4030; Gaz. vol. 170; p. 728.
Internal-combustion engine, Vertical. L. G. Sabathé. No. 990,297; Apr. 25; Sp. p. 4313; Gaz. vol. 165; p. 768.
Internal-combustion gas-turbine engine. E. Atwell. No. 1,000,882; Aug. 15; Sp. p. 3585; Gaz. vol. 169; p. 644.
Internal-combustion generator, Continuous. J. D. Loop. No. 992,891; May 23; Sp. p. 4421; Gaz. vol. 166; p. 811.
Internal-combustion motor. C. J. Coleman. No. 981,978; Jan. 17; Sp. p. 4049; Gaz. vol. 162; p. 675.
Internal-combustion motor. K. Fabel. No. 985,793; Mar. 7; Sp. p. 52; Gaz. vol. 164; p. 12.
Internal-combustion motor. D. F. and D. W. Batterman. No. 1,004,526; Sept. 26; Sp. p. 5120; Gaz. vol. 170; p. 901.
Internal-combustion motor. R. Huff. No. 1,006,095; Oct. 17; Sp. p. 3339; Gaz. vol. 171; p. 596.
Internal-combustion pumping-engine. A. L. Croxton. No. 996,565; June 27; Sp. p. 5405; Gaz. vol. 167; p. 946.
Internal-combustion pumping-engine. C. Emmons. No. 1,006,540; Oct. 24; Sp. p. 4389; Gaz. vol. 171; p. 784.
Internal-combustion rotary engine. F. S. and A. F. Wright. No. 992,096; May 9; Sp. p. 2654; Gaz. vol. 166; p. 473.
Internal-combustion steam-motor. E. P. Noyes. No. 982,850; Jan. 31; Sp. p. 5861; Gaz. vol. 162; p. 1032.
Interrupter. R. H. Wappler. No. 1,003,222; Sept. 12; Sp. p. 2280; Gaz. vol. 170; p. 392.
Intestine-cleaning apparatus. G. S. Billman. No. 998,597; July 25; Sp. p. 4343; Gaz. vol. 168; p. 796.
Intestine-cleaning machine. G. S. Billman. No. 997,738; July 11; Sp. p. 2411; Gaz. vol. 168; p. 420.
Intestines, Machine for cleaning. G. S. Billman. No. 1,009,215; Nov. 21; Sp. p. 3555; Gaz. vol. 172; p. 621.
Intrenching-tool, Military. E. B. Bengtsson. No. 993,015; May 23; Sp. p. 4689; Gaz. vol. 166; p. 855.
Invalid-lifting apparatus. J. Fravel. No. 982,807; Jan. 31; Sp. p. 5774; Gaz. vol. 162; p. 1017.
Invalid-support. J. F. Hudec. No. 1,010,261; Nov. 28; Sp. p. 5721; Gaz. vol. 172; p. 1023.
Iodin and tannin, Compound of. C. J. Enebuske. No. 993,295; May 23; Sp. p. 5265; Gaz. vol. 166; p. 945.
Iris-diaphragm. A. Wollensak. No. 993,215; May 23; Sp. p. 5109; Gaz. vol. 166; p. 920.
Iris-diaphragm. A. Wollensak. No. 993,431; May 30; Sp. p. 5581; Gaz. vol. 166; p. 1024.
Iron: *See* Blind-iron; Branding-iron; Coupling carry-iron; Curling-iron; Edge-setting iron; Electric iron; Electric heating-iron; Flat-iron; Gas-iron; Gas-heated iron; Pressing-iron; Pressing and creasing iron; Sad-iron; Self-heating iron; Smoothing-iron; Soldering-iron; Stay-iron; Waffle-iron.
Iron and alkaline salts, Producing metallic. E. C. Eckel. No. 1,011,173; Dec. 12; Sp. p. 1746; Gaz. vol. 173; p. 305.
Iron and its alloys, Apparatus for manufacturing. M. Ruthenburg. No. 995,636; June 20; Sp. p. 3373; Gaz. vol. 167; p. 594.
Iron and steel and other metals, Electric production of. A. R. Lindblad. No. 1,002,286; Sept. 5; Sp. p. 230; Gaz. vol. 170; p. 30.
Iron and steel, Manufacture of. F. A. Wilmot. No. 1,012,310; Dec. 19; Sp. p. 4295; Gaz. vol. 173; p. 737.
Iron breaker, Pig-. J. W. Brown, Jr. No. 1,011,736; Dec. 12; Sp. p. 3014; Gaz. vol. 173; p. 503.
Iron compounds, Preparation of. J. T. Carrick. No. 997,237; July 4; Sp. p. 1345; Gaz. vol. 168; p. 220.
Iron compounds, Treating finely-divided substances containing. T. C. King. No. 995,542; June 20; Sp. p. 3147; Gaz. vol. 167; p. 560.
Iron, Device for perforating figured. H. Koepplinger. No. 989,159; Apr. 11; Sp. p. 1826; Gaz. vol. 165; p. 316.
Iron, Electrolytic method of refining. A. S. Ramage. No. 1,007,388; Oct. 31; Sp. p. 6241; Gaz. vol. 171; p. 1135.
Iron from rust, Protecting. A. Lang. No. 983,377; Feb. 7; Sp. p. 259; Gaz. vol. 163; p. 41.
Iron manufacture. R. B. Carnahan, Jr. No. 986,359; Mar. 7; Sp. p. 1266; Gaz. vol. 164; p. 204.
Iron manufacture. R. B. Carnahan, Jr. No. 987,549; Mar. 21; Sp. p. 3754; Gaz. vol. 164; p. 671.
Iron, Manufacture of ductile electrolytic. F. Fischer. No. 992,951; May 23; Sp. p. 4564; Gaz. vol. 166; p. 833.
Iron, Manufacture of ductile electrolytic. F. Fischer. No. 992,952; May 23; Sp. p. 4566; Gaz. vol. 166; p. 833.
Iron or steel to prevent the oxidation or rusting thereof, Treatment of. T. W. Coslett. No. 1,007,069; Oct. 31; Sp. p. 5541; Gaz. vol. 171; p. 1020.
Iron ore, Reducing. J. T. Jones. No. 981,280; Jan. 10; Sp. p. 2536; Gaz. vol. 162; p. 413.
Iron ores, Treatment of titaniferous. A. Sinding-Larsen. No. 995,576; June 20; Sp. p. 3235; Gaz. vol. 167; p. 572.
Iron plates of large area, Manufacture of thin electrolytic. W. Pfanhauser. No. 987,318; Mar. 21; Sp. p. 3302; Gaz. vol. 164; p. 593.
Iron, Producing practically pure. A. Smith. No. 1,008,377; Nov. 14; Sp. p. 1659; Gaz. vol. 172; p. 295.
Iron, Purifying and refining. J. B. Nau. No. 984,590; Feb. 21; Sp. p. 2911; Gaz. vol. 163; p. 518.
Iron, Refining molten pig-. J. B. Nau. No. 991,633; May 9; Sp. p. 1731; Gaz. vol. 166; p. 318.
Iron-silicon ingot. E. A. Byrnes. No. 1,004,987; Oct. 3; Sp. p. 928; Gaz. vol. 171; p. 154.
Ironer, Sleeve, waist, and cap. S. McLaughlin. No. 983,246; Jan. 31; Sp. p. 6712; Gaz. vol. 162; p. 1164.
Ironing and pressing machine. P. Jonesku. (Reissue.) No. 13,220; Mar. 21; Sp. p. 4063; Gaz. vol. 164; p. 720.
Ironing-board. R. L. Kohr. No. 981,283; Jan. 10; Sp. p. 2544; Gaz. vol. 162; p. 414.
Ironing-board. T. A. Tate. No. 983,656; Feb. 7; Sp. p. 863; Gaz. vol. 163; p. 138.
Ironing-board. C. W. Springford. No. 987,267; Mar. 21; Sp. p. 3193; Gaz. vol. 164; p. 577.
Ironing-board. H. M. Eagon. No. 987,448; Mar. 21; Sp. p. 3575; Gaz. vol. 164; p. 636.
Ironing-board. W. E. Perry. No. 990,586; Apr. 25; Sp. p. 4987; Gaz. vol. 165; p. 869.
Ironing-board. J. H. D. Everett. No. 994,639; June 6; Sp. p. 1137; Gaz. vol. 167; p. 185.
Ironing-board. C. B. Reynolds. No. 998,988; July 25; Sp. p. 5252; Gaz. vol. 168; p. 936.
Ironing-board. W. R. McGee. No. 999,827; Aug. 8; Sp. p. 1249; Gaz. vol. 169; p. 244.
Ironing-board. J. S. Adams. No. 1,000,876; Aug. 15; Sp. p. 3577; Gaz. vol. 169; p. 642.
Ironing-board. R. J. Christie. No. 1,002,900; Sept. 12; Sp. p. 1623; Gaz. vol. 170; p. 281.
Ironing-board. M. E. L. Beckham. No. 1,005,798; Oct. 17; Sp. p. 2680; Gaz. vol. 171; p. 492.
Ironing-board. M. R. Calkins. No. 1,006,180; Oct. 17; Sp. p. 3552; Gaz. vol. 171; p. 628.
Ironing-board. W. A. Allsteadt. No. 1,006,340; Oct. 17; Sp. p. 3907; Gaz. vol. 171; p. 683.
Ironing-board. A. S. Reichel. No. 1,007,489; Oct. 31; Sp. p. 6457; Gaz. vol. 171; p. 1169.
Ironing-board. L. G. Peaslee. No. 1,009,438; Nov. 21; Sp. p. 4074; Gaz. vol. 172; p. 702.
Ironing-board. R. E. Crowe and G. O. Prowse. No. 1,009,481; Nov. 21; Sp. p. 4156; Gaz. vol. 172; p. 716.
Ironing-board. A. M. Springer. No. 1,012,468; Dec. 19; Sp. p. 4597; Gaz. vol. 173; p. 788.
Ironing-board and step-ladder, Combined. N. Stafford. No. 996,533; June 27; Sp. p. 5352; Gaz. vol. 167; p. 936.
Ironing-board attachment. F. H. Mayes. No. 1,008,171; Nov. 7; Sp. p. 1109; Gaz. vol. 172; p. 182.
Ironing-board-cover-fastening device. G. A. Hall. No. 989,962; Apr. 18; Sp. p. 3586; Gaz. vol. 165; p. 622.
Ironing-board, Foldable. C. S. Homsher and W. E. Lawrence. No. 995,142; June 13; Sp. p. 2283; Gaz. vol. 167; p. 396.
Ironing board, Sleeve-. H. M. Russ. No. 982,093; Jan. 17; Sp. p. 4285; Gaz. vol. 162; p. 714.
Ironing-board work-clamp. A. T. Hagen. No. 999,219; Aug. 1; Sp. p. 55; Gaz. vol. 169; p. 11.
Ironing-boards, Folding stand for. C. W. Brode. No. 999,695; Aug. 1; Sp. p. 977; Gaz. vol. 169; p. 171.
Ironing-boards, Holder for cloth coverings of. C. E. Gray. No. 1,007,001; Oct. 24; Sp. p. 5381; Gaz. vol. 171; p. 943.
Ironing, Cloth-folder for. H. C. Rand and M. M. Graf. No. 1,001,443; Aug. 22; Sp. p. 4815; Gaz. vol. 169; p. 868.
Ironing device, Electric. G. A. Ricks. No. 994,605; June 6; Sp. p. 1044; Gaz. vol. 167; p. 174.
Ironing-machine. M. Achenbach, D. Dreifus, and J. Lehmann. No. 982,778; Jan. 31; Sp. p. 5704; Gaz. vol. 162; p. 1007.
Ironing-machine. C. H. Mattice. No. 986,729; Mar. 14; Sp. p. 2059; Gaz. vol. 164; p. 361.
Ironing-machine. H. B. Rose. No. 987,323; Mar. 21; Sp. p. 3314; Gaz. vol. 164; p. 595.
Ironing-machine. H. G. Grosse and W. French. (Reissue.) No. 13,249; May 30; Sp. p. 7012; Gaz. vol. 166; p. 1258.
Ironing-machine. P. Jonesku. No. 994,466; June 6; Sp. p. 740; Gaz. vol. 167; p. 127.
Ironing-machine. A. T. Hagen and D. M. Cooper. No. 994,512; June 6; Sp. p. 842; Gaz. vol. 167; p. 142.
Ironing-machine. C. H. Mattice. No. 996,104; June 27; Sp. p. 4368; Gaz. vol. 167; p. 791.

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Ironing-machine. J. W. Johnson. No. 998,521; July 18; Sp. p. 4172; Gaz. vol. 168; p. 738.
Ironing-machine. C. T. Gilmore. No. 1,001,384; Aug. 22; Sp. p. 4706; Gaz. vol. 169; p. 849.
Ironing-machine. A. R. Gustafson. No. 1,004,872; Oct. 3; Sp. p. 701; Gaz. vol. 171; p. 114.
Ironing machine, Shirt-. C. T. Gilmore. No. 985,026; Feb. 21; Sp. p. 3786; Gaz. vol. 163; p. 669.
Ironing machine, Shirt-. W. Bartholomew. No. 1,000,364; Aug. 15; Sp. p. 2459; Gaz. vol. 169; p. 460.
Ironing or pressing machine, Laundry. C. A. Smith. No. 1,007,148; Oct. 31; Sp. p. 5725; Gaz. vol. 171; p. 1050.
Ironing-table. E. Cooper. No. 980,762; Jan. 3; Sp. p. 1247; Gaz. vol. 162; p. 200.
Ironing-table. L. M. Durfee. No. 986,912; Mar. 14; Sp. p. 2457; Gaz. vol. 164; p. 424.
Ironing-table. G. R. Dobson. No. 993,351; May 30; Sp. p. 5400; Gaz. vol. 166; p. 997.
Ironing-table. H. E. Lewis. No. 995,612; June 20; Sp. p. 3322; Gaz. vol. 167; p. 585.
Ironing-table. E. S. Doten. No. 997,117; July 4; Sp. p. 1094; Gaz. vol. 168; p. 177.
Ironing-table, Adjustable. A. Logsdon. No. 996,354; June 27; Sp. p. 4975; Gaz. vol. 167; p. 876.
Ironing-table for pressing-machines. C. A. Smith. No. 980,688; Jan. 3; Sp. p. 1107; Gaz. vol. 162; p. 177.
Irradiating apparatus, Holder for. J. Rosenthal. No. 981,948; Jan. 17; Sp. p. 3987; Gaz. vol. 162; p. 665.
Irrigating apparatus. L. B. Harris. No. 994,155; June 6; Sp. p. 101; Gaz. vol. 167; p. 20.
Irrigating device for trees. H. F. Thompson. No. 1,010,819; Dec. 5; Sp. p. 923; Gaz. vol. 173; p. 145.
Irrigating-ditches, Flow-regulator and seed-trap for. M. T. Otis. No. 1,010,305; Nov. 28: Sp. p. 5828; Gaz. vol. 172; p. 1038.
Irrigating system. J. E. Mills. No. 992,231; May 16; Sp. p. 2991; Gaz. vol. 166; p. 550.
Irrigating system. J. T. Donahoo. No. 994,065; May 30; Sp. p. 6914; Gaz. vol. 166; p. 1241.
Irrigating system. J. D. McCrimmon. No. 998,253; July 18; Sp. p. 3586; Gaz. vol. 168; p. 643.
Irrigating vessel. M. E. Van Luven. No. 1,005,675; Oct. 10; Sp. p. 2440; Gaz. vol. 171; p. 418.
Irrigation-gate. J. Kissinger and G. Frisch. No. 1,003,469; Sept. 19; Sp. p. 2793; Gaz. vol. 170; p. 511.
Irrigation purposes, Apparatus for delivering water for. A. S. Gibb. No. 1,012,072; Dec. 19; Sp. p. 3778; Gaz. vol. 173; p. 655.
Irrigation system. C. H. von Hohenstein. No. 986,003; Mar. 7; Sp. p. 541; Gaz. vol. 164; p. 86.
Irrigation system. J. E. Johnston. No. 988,639; Apr. 4; Sp. p. 754; Gaz. vol. 165; p. 120.
Isoprene, Manufacturing. W. H. Perkin and C. Weizmann. No. 991,453; May 2; Sp. p. 1327; Gaz. vol. 166; p. 222.
Jack: *See* Automobile-jack; Automobile lifting-jack; Automobile storage-jack; Bed-jack; Bootjack; Door-jack; Engine-jack; Floor-jack; Hauling and lifting jack; Insole-tacking jack; Lift-jack; Lifting-jack; Lumber-jack; Mine-jack; Mine-drill jack; Miter-jack; Painter's jack; Pipe-forcing jack; Plow-jack; Pneumatic jack; Power-transmitting jack; Pulling-jack; Pump-jack; Pumping-jack; Scaffold-jack; Shoemaker's jack; Speed-jack; Trestle-jack; Vehicle-jack; Wagon-jack; Window and roof jack.
Jack. T. J. Smithwick. No. 980,845; Jan. 3; Sp. p. 1422; Gaz. vol. 162; p. 228.
Jack. O. H. Ames. No. 983,419; Feb. 7; Sp. p. 338; Gaz. vol. 163; p. 57.
Jack. R. F. Schofield. No. 986,868; Mar. 14; Sp. p. 2363; Gaz. vol. 164; p. 409.
Jack. G. W. Wilmot. No. 989,744; Apr. 18; Sp. p. 3114; Gaz. vol. 165; p. 547.
Jack. L. Willour. No. 990,089; Apr. 18; Sp. p. 3836; Gaz. vol. 165; p. 664.
Jack. W. R. Hardesty and T. G. Harrison. No. 1,002,202; Aug. 29; Sp. p. 6397; Gaz. vol. 169; p. 1152.
Jack. N. Prezeau. No. 1,004,465; Sept. 26; Sp. p. 5007; Gaz. vol. 170; p. 881.
Jack. L. Willour. No. 1,005,912; Oct. 17; Sp. p. 2939; Gaz. vol. 171; p. 533.
Jack. A. C. Sargent. No. 1,009,186; Nov. 21; Sp. p. 3453; Gaz. vol. 172; p. 610.
Jack. O. Ashton. No. 1,012,581; Dec. 26; Sp. p. 4845; Gaz. vol. 173; p. 873
Jack-block and car-wheel clamp. M. Sexton. No. 992,271; May 16; Sp. p. 3096; Gaz. vol. 166; p. 564.
Jack-seat. H. T. Andrew. No. 1,011,142; Dec. 12; Sp. p. 1665; Gaz. vol. 173; p. 294.
Jack, wheel-puller, and vise, Combined. F. L. Fitch and O. W. Britt. No. 997,796; July 11; Sp. p. 2572; Gaz. vol. 168; p. 441.
Japanning apparatus, Automatic. D. F. Broderick. No. 1,010,720; Dec. 5; Sp. p. 713; Gaz. vol. 173; p. 113.
Jar: *See* Coupling-jar; Drill-jar; Fruit-jar; Paste-jar; Preserve-jar.
Jar and closure therefor. G. Glocker. No. 984,808; Feb. 21; Sp. p. 3379; Gaz. vol. 163; p. 596.
Jar-closure. J. P. Lyon. No. 980,544; Jan. 3; Sp. p. 800, Gaz. vol. 162; p. 128.
Jar-closure. C. Lee and J. M. Duthie. No. 988,116; Mar. 28; Sp. p. 5038; Gaz. vol. 164; p. 894.
Jar-closure. H. Op de Hipt. No. 997,505; July 11; Sp. p. 1876; Gaz. vol. 168; p. 338.
Jar-closure. F. J. Mackin. No. 1,010,285; Nov. 28; Sp. p. 5789; Gaz. vol. 172; p. 1031.
Jar-closure fastener. W. A. Bostwick. No. 1,002,963; Sept. 12; Sp. p. 1747; Gaz. vol. 170; p. 303.
Jar-closure, Vacuum. W. J. Peelle. No. 982,860; Jan. 31; Sp. p. 5901; Gaz. vol. 162; p. 1036.
Jar-closures, Device for manipulating. P. Cole. No. 991,047; May 2; Sp. p. 456; Gaz. vol. 166; p. 79.
Jar-closures, Machine for forming locking devices for. P. L. Roediger. No. 985,452; Feb. 28; Sp. p. 4777; Gaz. vol. 163; p. 849.
Jar-holder. O. F. Peterson. No. 981,469; Jan. 10; Sp. p. 2953; Gaz. vol. 162; p. 479.
Jar holder, Fruit-. A. Schaumburg. No. 995,486; June 20; Sp. p. 3034; Gaz. vol. 167 · p. 540.
Jar holder, Fruit-. J. La Kamp. No. 1,001,535; Aug. 22; Sp. p. 4978; Gaz. vol. 169; p. 898.
Jar-opener. F. W. Bettis. No. 1,004,734; Oct. 3; Sp. p. 406; Gaz. vol. 171; p. 67.
Jar-wrench. H. D. Hinds. No. 1,005,213; Oct. 10; Sp. p. 1374; Gaz. vol. 171; p. 253.
Jar wrench, Fruit-. C. L. Robbins. No. 994,953; June 13; Sp. p. 1897; Gaz. vol. 167; p. 334.
Jars, bottles, and similar articles, Closure for. E. F. Hopkins. No. 984,815; Feb. 21; Sp. p. 3394; Gaz. vol. 163; p. 598.
Jars or the like, Closure for. G. Gable. No. 984,658; Feb. 21; Sp. p. 3061; Gaz. vol. 163; p. 542.
Jarring-machine. C. S. Simmers. No. 991,381; May 2; Sp. p. 1186; Gaz. vol. 166; p. 198.
Jarring-machine. E. C. Covert. No. 1,010,024; Nov. 28; Sp. p. 5269; Gaz. vol. 172; p. 944.
Jarring-machine blacking-box. E. C. Wiley. No. 989,464; Apr. 11; Sp. p. 2475; Gaz. vol. 165; p. 419.
Jaws for jaw-rods and jaw-bolts, Manufacturing. O. P. Redford. No. 1,010,687; Dec. 5; Sp. p. 627; Gaz. vol. 173: p. 100.
Jet apparatus. M. Leblanc. No. 1,001,154; Aug. 22; Sp. p. 4216; Gaz. vol. 169; p. 771.
Jet-condenser. R. N. Ehrhart. No. 1,009,657; Nov. 21; Sp. p. 4485; Gaz. vol. 172; p. 772.
Jewel remover and replacer. F. Winkler. No. 994,229; June 6; Sp. p. 263; Gaz. vol. 167; p. 45.
Jewel-setting. A. Suderov. No. 1,007,253; Oct. 31; Sp. p. 5959; Gaz. vol. 171; p. 1087.
Jewel-setting tool. C. Kreimendahl and A. J. Sheff. No. 988,195; Mar. 28; Sp. p. 5181; Gaz. vol. 164; p. 919.
Jewel-setting tool. M. Rottenthaler. No. 1,009,582; Nov. 21; Sp. p. 4356; Gaz. vol. 172; p. 750.
Jewels in form of a setting, Device for holding several. F. Salé. No. 993,797; May 30; Sp. p. 6388; Gaz. vol. 166; p. 1151.
Jeweler's clamp. W. C. Clow. No. 1,009,895; Nov. 28; Sp p. 4982; Gaz. vol. 172; p. 900.
Jewelry. A. Spaney and J. W. Mayer. No. 1,006,506; Oct. 24; Sp. p. 4303; Gaz. vol. 171; p. 771.
Jewelry, &c., Absorbing moisture from wet surfaces of articles of. A. W. Hutchins. No. 1,012,644; Dec. 26; Sp. p. 4985; Gaz. vol. 173; p. 895.
Jewelry-case. I. L. Baugh. No. 1,004,968; Oct. 3; Sp. p. 893; Gaz. vol. 171; p. 147.
Jewelry having interchangeable setting, Article of. F. S. Reynolds. No. 996,678; July 4; Sp. p. 164; Gaz. vol. 168; p. 29.
Jewelry, Imitation gemmed. F. J. Lightbody. No. 992,014; May 9; Sp. p. 2505; Gaz. vol. 166; p. 446.
Jewelry, Interchangeable head for. H. H. Lott. No. 984,682; Feb. 21; Sp. p. 3103; Gaz. vol. 163; p. 550.
Jewelry, Manufacturing. M. J. Bonniol. No. 982,237; Jan. 24: Sp. p. 4558; Gaz. vol. 162; p. 793.
Jewelry, Producing articles of. C. A. Mealy and R. L. Parcell. No. 999,391; Aug. 1; Sp. p. 397; Gaz. vol. 169; p. 70.
Jewelry safety-catch. L. E. Ladd. No. 982,372; Jan. 24; Sp. p. 4859; Gaz. vol. 162; p. 841.
Jig. G. B. Shipley. No. 995,381; June 13; Sp. p. 2789; Gaz. vol. 167; p. 475.
Jig. C. A. Duncan. No. 995,848; June 20; Sp. p. 3843; Gaz. vol. 167; p. 668.
Jig. G. H. Elmore. No. 997,609; July 11; Sp. p. 2093; Gaz. vol. 168; p. 373.
Jig for holding articles during machining. J. H. Hertner and D. C. Cookingham. No. 995,537; June 20; Sp. p. 3137; Gaz. vol. 167; p. 558.
Jigs or classifiers, Indicating mechanism for. F. D. Baker. No. 1,011,307; Dec. 12; Sp. p. 2052; Gaz. vol. 173; p. 352.
Jigger. W. Seltner. No. 987,179; Mar. 21; Sp. p. 2997; Gaz. vol. 164; p. 544.

Alphabetical list of inventions—Continued.

Joint: *See* Air-tight joint; Ankle-joint; Arbor-joint; Bayonet-joint; Block-signal joint; Building-block joint; Conduit-joint; Dowel-joint; Expansion-joint; Flange-joint; Hinge-joint; Lock-joint; Metal joint; Metal-strip joint; Pipe-joint; Pivot-joint; Pump-barrel joint; Rail-joint; Rail and fish joint; Railway-joint; Railway-rail joint; Roof-joint; Roofing-joint; Scale rail-joint; Screw-joint; Sealed joint; Spoke-joint; Stovepipe-joint; Tongue-and-groove joint; Universal joint.
Joint and coupling. B. W. Stouffer. No. 1,002,774; Sept. 5; Sp. p. 1319; Gaz. vol. 170; p. 198.
Joint-binder. E. C. Glardon. No. 1,004,773; Oct. 3; Sp. p. 488; Gaz. vol. 171; p. 80.
Joint coupling, Universal-. F. J. Newman. No. 1,009,778; Nov. 28; Sp. p. 4753; Gaz. vol. 172; p. 861.
Joint-fastener. D. A. Wright. No. 991,589; May 9; Sp. p. 1647; Gaz. vol. 166; p. 303.
Joint-fastener. T. Carlson. No. 1,007,334; Oct. 31; Sp. p. 6122; Gaz. vol. 171; p. 1116.
Joint for intersecting metallic members. W. E. Ulrich. No. 1,012,761; Dec. 26; Sp. p. 5222; Gaz. vol. 173; p. 936.
Joint for longitudinal members. B. L. Mallory. No. 993,309; May 23; Sp. p. 5289; Gaz. vol. 166; p. 949.
Joint for panels and the like. D. E. Hunter. No. 986,292; Mar. 7; Sp. p. 1109; Gaz. vol. 164; p. 179.
Joint for tubular sections. J. D. Kirby. No. 993,304; May 23; Sp. p. 5283; Gaz. vol. 166; p. 947.
Joint-forming means. H. W. Jacobs. No. 998,904; July 25; Sp. p. 5053; Gaz. vol. 168; p. 906.
Joint-twisting tool. A. Freier. No. 1,004,008; Sept. 26; Sp. p. 4000; Gaz. vol. 170; p. 723.
Jointed figure. A. Schoenhut. No. 982,096; Jan. 17; Sp. p. 4289; Gaz. vol. 162; p. 714.
Jointer, Self-feeding. F. H. Clement and L. B. Whipple. No. 1,001,579; Aug. 22; Sp. p. 5066; Gaz. vol. 169; p. 912.
Jointers, Feed attachment for hand-. G. D. Trogdon. No. 986,782; Mar. 14; Sp. p. 2169; Gaz. vol. 164; p. 378.
Jointing-machine safety device. W. A. Thomas. No. 982,105; Jan. 17; Sp. p. 4305; Gaz. vol. 162; p. 718.
Joist-hanger. J. Tuteur. No. 996,687; July 4; Sp. p. 178; Gaz. vol. 168; p. 32.
Journal-bearing. L. H. Hartmann. No. 984,369; Feb. 14; Sp. p. 2415; Gaz. vol. 163; p. 408.
Journal-bearing. H. F. Schroder. No. 985,460; Feb. 28; Sp. p. 4792; Gaz. vol. 163; p. 852.
Journal-bearing. J. E. Muhlfeld. No. 992,378; May 16; Sp. p. 3346; Gaz. vol. 166; p. 602.
Journal-bearing. O. Schutt. No. 995,916; June 20; Sp. p. 3979; Gaz. vol. 167; p. 691.
Journal-bearing. R. S. Brown. No. 1,003,868; Sept. 19; Sp. p. 3646; Gaz. vol. 170; p. 648.
Journal-bearing. J. Sturrock. No. 1,007,014; Oct. 24; Sp. p. 5406; Gaz. vol. 171; p. 947.
Journal-bearing. W. H. Thoms and H. W. Dummert. No. 1,011,094; Dec. 5; Sp. p. 1527; Gaz. vol. 173; p. 241.
Journal-bearing, Antifriction. A. F. Howe. No. 992,504; May 16; Sp. p. 3600; Gaz. vol. 166; p. 646.
Journal-bearing for car and other axles. J. E. Muhlfeld. No. 985,437; Feb. 28; Sp. p. 4737; Gaz. vol. 163; p. 842.
Journal-bearing for car and other axles. J. E. Muhlfeld. No. 985,438; Feb. 28; Sp. p. 4739; Gaz. vol. 163; p. 843.
Journal-bearing lubricator. J. T. Davis. No. 1,012,333; Dec. 19; Sp. p. 4347; Gaz. vol. 173; p. 745.
Journal-bearings, Lubricating device for. G. Dunn. No. 1,006,370; Oct. 17; Sp. p. 3982; Gaz. vol. 171; p. 694.
Journal-box. T. Breaid. No. 980,590; Jan. 3; Sp. p. 895; Gaz. vol. 162; p. 144.
Journal-box. J. Penny and T. M. Le Blanc. No. 988,138; Mar. 28; Sp. p. 5079; Gaz. vol. 164; p. 901.
Journal-box. C. F. Murray. No. 992,976; May 23; Sp. p. 4612; Gaz. vol. 166; p. 841.
Journal-box. C. A. Lindström. No. 1,000,420; Aug. 15; Sp. p. 2582; Gaz. vol. 169; p. 480.
Journal-box. A. W. Nelson. No. 1,005,455; Oct. 10; Sp. p. 1929; Gaz. vol. 171; p. 340.
Journal-box. R. S. Brown. No. 1,006,529; Oct. 24; Sp. p. 4347; Gaz. vol. 171; p. 779.
Journal-box. C. F. Murray. No. 1,007,478; Oct. 31; Sp. p. 6417; Gaz. vol. 171; p. 1166.
Journal-box. C. W. Sherman. No. 1,007,899; Nov. 7; Sp. p. 571; Gaz. vol. 172; p. 88.
Journal-box. C. F. Murray. No. 1,009,986; Nov. 28; Sp. p. 5166; Gaz. vol. 172; p. 930.
Journal-box. T. Ono. No. 1,012,218; Dec. 19; Sp. p. 4109; Gaz. vol. 173; p. 705.
Journal-box and dust-guard, Combined. F. S. Currie. No. 999,486; Aug. 1; Sp. p. 574; Gaz. vol. 169; p. 100.
Journal-box bearing, Railway-car. W. R. Clark. No. 992,481; May 16; Sp. p. 3561; Gaz. vol. 166; p. 638.
Journal-box dust-guard. M. P. Newcomb. No. 1,011,359; Dec. 12; Sp. p. 2176; Gaz. vol. 173; p. 370.
Journal-box lifter for cars. S. A. Pedlar. No. 989,039; Apr. 11; Sp. p. 1569; Gaz. vol. 165; p. 275.
Journal-box lubricant device. C. B. Coon. No. 980,492; Jan. 3; Sp. p. 688; Gaz. vol. 162; p. 111.
Journal-box lubricant device. C. B. Coon. (Reissue.) No. 13,225; Apr. 11; Sp. p. 2686; Gaz. vol. 165; p. 450.
Journal-box lubricant device. F. Loedige. No. 1,000,099; Aug. 8; Sp. p. 1869; Gaz. vol. 169; p. 338.
Journal-box lubricant device. F. Loedige. (Reissue.) No. 13,344; Dec. 26; Sp. p. 6009; Gaz. vol. 173; p. 1052.
Journal-box, Wear-compensating. B. M. W. Hanson. No. 989,003; Apr. 11; Sp. p. 1499; Gaz. vol. 165; p. 263.
Journal-boxes, Lubricant-reservoir for. J. L. Henderson. No. 995,459; June 20; Sp. p. 2970; Gaz. vol. 167; p. 530.
Journal-support. J. J. Buschor. No. 983,347; Feb. 7; Sp. p. 187; Gaz. vol. 163; p. 33.
Journal-support. G. H. Merwin. No. 1,012,213; Dec. 19; Sp. p. 4096; Gaz. vol. 173; p. 703.
Journals and shafts of engines, &c., Composition of matter for cooling. G. M. Callahan. No. 1,003,983; Sept. 26; Sp. p. 3940; Gaz. vol. 170; p. 715.
Jugs and the like, Lid for milk-. G. W. Shailer. No. 999,887; Aug. 8; Sp. p. 1398; Gaz. vol. 169; p. 266.
Juice-extractor. W. B. Williams. No. 980,466; Jan. 3; Sp. p. 620; Gaz. vol. 162; p. 102.
Juice-extractor. E. F. Kandlbinder. No. 992,667; May 16; Sp. p. 3934; Gaz. vol. 166; p. 701.
Junction-box. M. J. Myers. No. 996,876; July 4; Sp. p. 572; Gaz. vol. 168; p. 94.
Junction-box. J. Wares and J. W. Kippen. No. 1,004,946; Oct. 3; Sp. p. 858; Gaz. vol. 171; p. 140.
Junction or terminal box. L. Gudeman. No. 990,353; Apr. 25; Sp. p. 4445; Gaz. vol. 165; p. 786.
Jute and like fibrous material woolly, Rendering. P. Schmid. No. 990,012; Apr. 18; Sp. p. 3690; Gaz. vol. 165; p. 640.
Kaleidoscope. G. M. Dougall. No. 984,198; Feb. 14; Sp. p. 2029; Gaz. vol. 163; p. 349.
Kaleidoscope. J. C. Scheufler. No. 1,010,808; Dec. 5; Sp. p. 905; Gaz. vol. 173; p. 142.
Keg or barrel making machine. F. E. Keyes. No. 986,995; Mar. 14; Sp. p. 2602; Gaz. vol. 164; p. 450.
Keg-rinsing machine. G. D. Prentice. No. 1,013,057; Dec. 26; Sp. p. 5923; Gaz. vol. 173; p. 1037.
Keg washing and sprinkling machine, Automatic. F. Strohl. No. 1,003,014; Sept. 12; Sp. p. 1845; Gaz. vol. 170; p. 319.
Keir. J. A. Butler. No. 988,971; Apr. 11; Sp. p. 1421; Gaz. vol. 165; p. 252.
Kettle. F. T. Cummings. No. 989,125; Apr. 11; Sp. p. 1748; Gaz. vol. 165; p. 304.
Kettle. R. B. Lewis. (Reissue.) No. 13,296; Oct. 3; Sp. p. 1170; Gaz. vol. 171; p. 198.
Kettle-lid. M. A. Lewis. No. 987,077; Mar. 14; Sp. p. 2753; Gaz. vol. 164; p. 476.
Kettle-protector, Adjustable. H. T. Kellogg. No. 1,009,527; Nov. 21; Sp. p. 4253; Gaz. vol. 172; p. 732.
Kettle, Seamless jacketed. A. M. Erickson. No. 1,004,001; Sept. 26; Sp. p. 3986; Gaz. vol. 170; p. 721.
Key: *See* Bung-key; Fuse-adjusting key; Lock-key; Locking-key; Party-line ringing-key; Ringing-key; Switch-key; Telegraph-key; Watch-key.
Key. J. T. Scanlon. No. 997,510; July 11; Sp. p. 1885; Gaz. vol. 168; p. 339.
Key-arresting mechanism. G. O. Degener. No. 1,010,349; Nov. 28; Sp. p. 5913; Gaz. vol. 172; p. 1053.
Key-bolt. F. L. H. Sims. No. 1,000,445; Aug. 15; Sp. p. 2634; Gaz. vol. 169; p. 489.
Key-duplicating machine. E. C. Wakeland. No. 983,787; Feb. 7; Sp. p. 1130; Gaz. vol. 163; p. 181.
Key-fastener. C. S. Sukeforth. No. 994,285; June 6; Sp. p. 378; Gaz. vol. 167; p. 64.
Key-holder. C. Beavis. No. 1,007,634; Oct. 31; Sp. p. 6780; Gaz. vol. 171; p. 1219.
Key-lock, Changeable. W. Rees. No. 988,663; Apr. 4; Sp. p. 801; Gaz. vol. 165; p. 129.
Key-lock, Changeable. W. Rees. No. 1,004,904; Oct. 3; Sp. p. 783; Gaz. vol. 171; p. 126.
Key-ring. J. A. Prigge, Jr. No. 988,960; Apr. 4; Sp. p. 1395; Gaz. vol. 165; p. 224.
Key-ring. W. L. Deming. No. 994,249; June 6; Sp. p. 305; Gaz. vol. 167; p. 52.
Key-ring. C. Schumacher. No. 1,008,203; Nov. 7; Sp. p. 1190; Gaz. vol. 172; p. 195.
Key-space. A. F. Dixon and R. R. Ireland. No. 981,846; Jan. 17; Sp. p. 3723; Gaz. vol. 162; p. 630.
Key-switch. A. H. Weiss. No. 1,005,910; Oct. 17; Sp. p. 2935; Gaz. vol. 171; p. 532.
Keys in locks, Device for holding. J. A. Prescott. No. 1,000,194; Aug. 8; Sp. p. 2085; Gaz. vol. 169; p. 371.
Keyboard-machines, Key for. D. E. Felt. No. 982,417; Jan. 24; Sp. p. 4948; Gaz. vol. 162; p. 856.
Keyhole-guard. W. E. Blais. No. 1,000,962; Aug. 15; Sp. p. 3754; Gaz. vol. 169; p. 671.
Keyhole-guard F. Mauro. No. 1,005,728; Oct. 10; Sp. p. 2538; Gaz. vol. 171; p. 436.
Keyless lock. O. J. Blakesley. No. 992,400; May 16; Sp. p. 3386; Gaz. vol. 166; p. 610.
Kiln: *See* Brick-kiln; Cement-kiln; Continuous kiln; Limekiln; Malt-kiln; Multifloor kiln; Rotary kiln.
Kiln. F. E. Goldsmith. No. 985,797; Mar. 7; Sp. p. 60; Gaz. vol. 164; p. 13.
Kiln. J. T. Underwood. No. 988,411; Apr. 4; Sp. p. 264; Gaz. vol. 165; p. 42.
Kiln. C. Hook. No. 990,558; Apr. 25; Sp. p. 4928; Gaz. vol. 165; p. 860.
Kiln. B. J. Bither. No. 994,054; May 30; Sp. p. 6891; Gaz. vol. 166; p. 1238.

Alphabetical list of inventions—Continued.

Kiln. F. D. Willey. No. 996,442; June 27; Sp. p. 5177; Gaz. vol. 167; p. 907.
Kiln. L. P. Ross. No. 1,004,085; Sept. 26; Sp. p. 4216; Gaz. vol. 170; p. 752.
Kiln for revivifying char. R. S. Kent. No. 1,004,176; Sept. 26; Sp. p. 4425; Gaz. vol. 170; p. 783.
Kilns, Repairing the linings of rotary cement-. B. Morrison and G. H. Loselle. No. 986,741; Mar. 14; Sp. p. 2084; Gaz. vol. 164; p. 365.
Kindler and fuel. T. D. Bausher. No. 984,644; Feb. 21; Sp. p. 3035; Gaz. vol. 163; p. 537.
Kindling device. A. L. Keevil. No. 995,017; June 13; Sp. p. 2028; Gaz. vol. 167; p. 355.
Kinematographic apparatus. A. Mallet. No. 983,073; Jan. 31; Sp. p. 6370; Gaz. vol. 162; p. 1107.
Kinematographic apparatus. S. Seischab. No. 986,318; Mar. 7; Sp. p. 1170; Gaz. vol. 164; p. 189.
Kinematographic bands, Manufacturing. C. Dupuis. No. 987,797; Mar. 28; Sp. p. 4306; Gaz. vol. 164; p. 784.
Kinematographic-film supports, Preparing. H. Danzer. No. 988,981; Apr. 11; Sp. p. 1441; Gaz. vol. 165; p. 255.
Kinematographic purposes, Picture-band for. A. O. Buechner. No. 1,010,228; Nov. 28; Sp. p. 5663; Gaz. vol. 172; p. 1013.
Kinematographs and gramophones, Device for indicating variations in synchronous running of. F. A. Thomassin. No. 1,001,091: Aug. 22; Sp. p. 4099; Gaz. vol. 169; p. 751.
Kinetoscope. T. A. Nolan. No. 995,551; June 20; Sp. p. 3168; Gaz. vol. 167; p. 564.
Kinetoscope. T. A. Nolan. No. 1,007,962; Nov. 7; Sp. p. 707; Gaz. vol. 172; p. 110.
Kinetoscope. T. A. Edison. (Reissue.) No. 13,329; Dec. 5; Sp. p. 1625; Gaz. vol. 173; p. 257.
Kinetoscope safety-shutter. A. C. Roebuck. No. 1,006,406; Oct. 17; Sp. p. 4051; Gaz. vol. 171; p. 706.
Kinetoscope-shutter. W. H. C. Dudley, Jr. No. 1,011,593; Dec. 12; Sp. p. 2721; Gaz. vol. 173; p. 456.
Kinetoscopes, Automatic film-protecting screen for. A. F. Gall. No. 998,571; July 18; Sp. p. 4274; Gaz. vol. 168; p. 755.
Kinetoscopes, Film-feeding mechanism for. W. J. Symons, R. J. Boyle, and W. A. Blaind. No. 987,506; Mar. 21; Sp. p. 3679; Gaz. vol. 164; p. 657.
Kitchen-machine. J. G. Johnson. No. 1,007,112; Oct. 31; Sp. p. 5636; Gaz. vol. 171; p. 1035.
Kitchen utensil. S. D. Ramey. No. 983,400; Feb. 7; Sp. p. 306; Gaz. vol. 163; p. 52.
Kite. H. Peuvot. No. 984,295; Feb. 14; Sp. p. 2273; Gaz. vol. 163; p. 385.
Kite. W. J. Craig. No. 987,963; Mar. 28; Sp. p. 4726; Gaz. vol. 164; p. 843.
Kite. F. Lischtiak. No. 997,455; July 11; Sp. p. 1773; Gaz. vol. 168; p. 322.
Kite. S. J. Conyne. No. 1,005,810; Oct. 17; Sp. p. 2711; Gaz. vol. 171; p. 496.
Kite. J. C. Ayling. No. 1,009,274; Nov. 21; Sp. p. 3694; Gaz. vol. 172; p. 642.
Kite and similar aerial machine. C. L. Tweedale. No. 992,086; May 9; Sp. p. 2638; Gaz. vol. 166; p. 470.
Kneading and mixing machine, Dough. M. Blum. No. 991,824; May 9; Sp. p. 2143; Gaz. vol. 166; p. 381.
Kneading-machine. J. Jouy. No. 990,441; Apr. 25; Sp. p. 4665; Gaz. vol. 165; p. 820.
Kneading-machine. C. Ambrette. No. 1,006,710; Oct. 24; Sp. p. 4727; Gaz. vol. 171; p. 842.
Knife: *See* Bread-knife; Broom-corn knife; Brush-knife; Cane-knife; Combination-knife; Corn-knife; Grooving-knife; Hay-knife; Operating-knife; Paring and slicing knife; Pocket-knife; Rubber-tree-tapping knife; Seaming and calking knife; Shoe-dresser knife; Thumb-knife.
Knife. J. W. Beardsley and E. E. Folts. No. 988,068; Mar. 28; Sp. p. 4949; Gaz. vol. 164; p. 878.
Knife. H. E. Chandler. No. 991,953; May 9; Sp. p. 2395; Gaz. vol. 166; p. 425.
Knife. W. F. Lutz, Jr. No. 997,683; July 11; Sp. p. 2264; Gaz. vol. 168; p. 400.
Knife. A. Abel. No. 1,000,874; Aug. 15; Sp. p. 3575; Gaz. vol. 169; p. 642.
Knife. F. White. No. 1,010,554; Dec. 5; Sp. p. 334; Gaz. vol. 173; p. 54.
Knife attachment. E. A. Saltzman. No. 1,012,717; Dec. 26; Sp. p. 5142; Gaz. vol. 173; p. 922.
Knife-cleaning machine. C. W. Model. No. 1,005,734; Oct. 10; Sp. p. 2550; Gaz. vol. 171; p. 438.
Knife, fork, and other implement, Hollow-handled. W. W. Lee. No. 1,012,088; Dec. 19; Sp. p. 3812; Gaz. vol. 173; p. 661.
Knife-guard for planers and the like. S. Davis. No. 985,786; Mar. 7; Sp. p. 37; Gaz. vol. 164; p. 9.
Knife guard, Plane-. R. Couture. No. 998,873; July 25; Sp. p. 4986; Gaz. vol. 168; p. 895.
Knife-holder and knife for cutting pile fabrics. A. Morton. No. 980,992; Jan. 10; Sp. p. 1863; Gaz. vol. 162; p. 310.
Knife jointer, Planer-. W. Harper. No. 993,367; May 30; Sp. p. 5449; Gaz. vol. 166; p. 1005.
Knife-polishing machine. W. J. Courtney. No. 1,004,747; Oct. 3; Sp. p. 431; Gaz. vol. 171; p. 72.
Knife-switch. O. H. Hoeft. No. 989,362; Apr. 11; Sp. p. 2267; Gaz. vol. 165; p. 385.
Knife-switch. J. J. Hartley. No. 991,502; May 9; Sp. p. 1437; Gaz. vol. 166; p. 271.
Knife-switch. H. L. Peat. No. 1,010,069; Nov. 28; Sp. p. 5357; Gaz. vol. 172; p. 960.
Knife-switch, Two-step. W. Muirhead, Jr. No. 1,005,060; Oct. 3; Sp. p. 1060; Gaz. vol. 171; p. 177.
Knives, forks, &c., Device for cleaning. F. Ritter. No. 995,570; June 20; Sp. p. 3221; Gaz. vol. 167; p. 570.
Knives, Making. A. M. Alexander. No. 1,003,409; Sept. 19; Sp. p. 2657; Gaz. vol. 170; p. 489.
Knives, Manufacturing. H. C. Hart. No. 999,557; Aug. 1; Sp. p. 728; Gaz. vol. 169; p. 124.
Knit fabrics, Trimming attachment for machines for uniting. E. O. Davis. No. 992,116; May 9; Sp. p. 2708; Gaz. vol. 166; p. 479.
Knit garment. J. H. Way. No. 1,009,606; Nov. 21; Sp. p. 4396; Gaz. vol. 172; p. 757.
Knit goods, Machine for running on. W. E. Smith. No. 1,006,305; Oct. 17; Sp. p. 3833; Gaz. vol. 171; p. 671.
Knit or woven fabric or felted boot. F. W. Savage. No. 993,203; May 23; Sp. p. 5086; Gaz. vol. 166; p. 917.
Knitted coat. N. Schwartz. No. 999,345; Aug. 1; Sp. p. 288; Gaz. vol. 169; p. 53.
Knitted fabric. R. W. Scott. No. 985,846; Mar. 7; Sp. p 185; Gaz. vol. 164; p. 30.
Knitted fabric. M. J. Fisher. No. 1,001,629; Aug. 29; Sp. p. 5180; Gaz. vol. 169; p. 960.
Knitted fabric, Producing openwork. R. W. Scott. No. 981,318; Jan. 10; Sp. p. 2620; Gaz. vol. 162; p. 426.
Knitted fabric, Transferrer for. G. H. Gilbert. No. 1,003,447; Sept. 19; Sp. p. 2745; Gaz. vol. 170; p. 503.
Knitted web. R. W. Scott. No. 993,112; May 23; Sp. p. 4909; Gaz. vol. 166; p. 889.
Knitted web and making the same. R. W. Scott. No. 993,799; May 30; Sp. p. 6390; Gaz. vol. 166; p. 1152.
Knitting-machine. E. Paquette. No. 985,927; Mar. 7; Sp. p. 360; Gaz. vol. 164; p. 58.
Knitting-machine. W. F. Rolston. No. 990,595; Apr. 25; Sp. p. 5009; Gaz. vol. 165; p. 872.
Knitting-machine. H. H. West. No. 993,807; May 30; Sp. p. 6403; Gaz. vol. 166; p. 1154.
Knitting-machine. A. C. Timming. No. 1,000,460; Aug. 15; Sp. p. 2660; Gaz. vol. 169; p. 493.
Knitting-machine. F. B. Wildman. No. 1,003,081; Sept. 12; Sp. p. 1969; Gaz. vol. 170; p. 341.
Knitting-machine. H. H. Wildt. No. 1,003,562; Sept. 19; Sp. p. 3011; Gaz. vol. 170; p. 544.
Knitting-machine. E. Dubied. No. 1,005,620; Oct. 10; Sp. p. 2316; Gaz vol. 171; p. 399.
Knitting-machine. T. F. Morris. No. 1,008,280; Nov. 7; Sp. p. 1366; Gaz. vol. 172; p. 223.
Knitting-machine. J. G. Prosser. No. 1,013,058; Dec. 26; Sp. p. 5926; Gaz. vol. 173; p. 1037.
Knitting-machine attachment. J. H. Brinsley. No. 982,238; Jan. 24; Sp. p. 4560; Gaz. vol. 162; p. 793.
Knitting-machine attachment. H. Birnbaum. No. 1,007,264; Oct. 31; Sp. p. 5976; Gaz. vol. 171; p. 1091.
Knitting-machine bur, Circular-. R. W. Gormly. No. 998,336; July 18; Sp. p. 3801; Gaz. vol. 168; p. 676.
Knitting machine, Circular-. E. Paquette. No. 985,928; Mar. 7; Sp. p. 368; Gaz. vol. 164; p. 59.
Knitting machine, Circular-. E. Paquette. No. 999,853; Aug. 8; Sp. p. 1306; Gaz. vol. 169; p. 253
Knitting machine, Circular-. E. Paquette. No. 999,854; Aug. 8; Sp. p. 1314; Gaz. vol. 169; p. 253.
Knitting machine, Circular-. W. T. Barratt. No. 1,003,085; Sept. 12; Sp. p. 1976; Gaz. vol. 170; p. 342.
Knitting machine, Circular-. R. W. Scott. No. 1,007,494; Oct. 31; Sp. p. 6467; Gaz. vol. 171; p. 1171.
Knitting-machine, Circular-fashioning. E. J. Franck. No. 991,711; May 9; Sp. p. 1916; Gaz. vol. 166; p. 345.
Knitting machine, Circular-rib-. F. Lasher. No. 992,012; May 9; Sp. p. 2500; Gaz. vol. 166; p. 445.
Knitting machine, Circular-warp-. W. A. Lawrence. No. 1,005,720; Oct. 10; Sp. p. 2521; Gaz. vol. 171; p. 433.
Knitting-machine dial connection and cutting attachment. G. L. Ballard. No. 1,007,629; Oct. 31; Sp. p. 6769; Gaz. vol. 171; p. 1217.
Knitting-machine dial-holding device. G. L. Ballard. No. 1,012,966; Dec. 26; Sp. p. 5729; Gaz. vol. 173; p. 1005.
Knitting-machine drop-stitch mechanism. F. H. Stoehrel. No. 1,008,751; Nov. 14; Sp. p. 2536; Gaz. vol. 172; p. 427.
Knitting machine, Elastic-warp-. H. C. Shaw. No. 1,009,446; Nov. 21; Sp. p. 4089; Gaz. vol. 172; p. 705.
Knitting machine for looped fabrics, Circular-. J. H. Scott. No. 981,483; Jan. 10; Sp. p. 2974; Gaz. vol. 162; p. 483.
Knitting machine, Glove-finger-. G. H. Gilbert and G. W. Lindley. No. 996,015; June 20; Sp. p. 4169; Gaz. vol. 167; p. 725.
Knitting machine, Hosiery-. H. Swinglehurst. No. 995,304; June 13; Sp. p. 2593; Gaz. vol. 167; p. 449.
Knitting-machine looping device. E. R. Olmsted. No. 983,757; Feb. 7; Sp. p. 1071; Gaz. vol. 163; p. 171.
Knitting-machine openwork attachment. H. H. West. No. 999,074; July 25; Sp. p. 5427; Gaz. vol. 168; p. 966.
Knitting-machine pattern mechanism. W. W. Burson. No. 996,059; June 27; Sp. p. 4276; Gaz. vol. 167; p. 776.
Knitting machine, Rib-. J. D. Morley. No. 1,000,837; Aug. 15; Sp. p. 3492; Gaz. vol. 169; p. 628

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Knitting machine, Rib-. W. D. Butz. No. 1,012,982; Dec. 26; Sp. p. 5767; Gaz. vol. 173; p. 1010.
Knitting-machine stop mechanism. A. Villeneuve. No. 1,003,675; Sept. 19; Sp. p. 3239; Gaz. vol. 170; p. 584.
Knitting-machine stop-motion. W. T. Barratt. No. 1,000,362; Aug. 15; Sp. p. 2442; Gaz. vol. 169; p. 459.
Knitting-machine striping and embroidering mechanism. F. H. Stoehrel. No. 1,008,752; Nov. 14; Sp. p. 2538; Gaz. vol. 172; p. 428.
Knitting-machine take-up. A. H. Obenhoff and D. J. Broderick. No. 980,826; Jan. 3; Sp. p. 1388; Gaz. vol. 162; p. 222.
Knitting-machine take-up mechanism. W. F. Rolston. No. 1,012,710; Dec. 26; Sp. p. 5126; Gaz. vol. 173; p. 919.
Knitting-machine yarn-twisting attachment. H. H. West. No. 1,006,889; Oct. 24; Sp. p. 5160; Gaz. vol. 171; p. 906.
Knitting machines, Cam for rib-. R. W. Scott. No. 983,777; Feb. 7; Sp. p. 1112; Gaz. vol. 163; p. 178.
Knitting machines, Drop-stitch and lacework mechanism for circular-. A. N. Ames. No. 981,351; Jan. 10; Sp. p. 2696; Gaz. vol. 162; p. 438.
Knitting-machines, Openwork pattern device for. B. Salzer and G. Walther. No. 987,827; Mar. 28; Sp. p. 4367; Gaz. vol. 164; p. 795.
Knitting machines, Pattern mechanism for glove-. G. H. Gilbert and G. W. Lindley. No. 996,036; June 20; Sp. p. 4219; Gaz. vol. 167; p. 733.
Knitting machines, Stitch-transferring mechanism for circular-. F. E. Wilson and F. W. Knapp. No. 999,287; Aug. 1; Sp. p. 178; Gaz. vol. 169; p. 34.
Knitting machines, Web-holder for rib-. R. W. Scott. No. 1,008,739; Nov. 14; Sp. p. 2515; Gaz. vol. 172; p. 423.
Knitting stringwork fabric. W. T. Barratt. No. 999,734; Aug. 8; Sp. p. 1077; Gaz. vol. 169; p. 214.
Knob. P. Mathes. No. 988,364; Apr. 4; Sp. p. 153; Gaz. vol. 165; p. 27.
Knob and bell, Combined door. R. Hazelrigg. No. 1,009,512; Nov. 21; Sp. p. 4223; Gaz. vol. 172; p. 727.
Knob and push-button, Combined door-. P. J. O'Donnell. No. 1,000,687; Aug. 15; Sp. p. 3179; Gaz. vol. 169; p. 575.
Knob and spindle connection. W. Curlett. No. 1,008,790; Nov. 14; Sp. p. 2628; Gaz. vol. 172; p. 441.
Knob-fastener. F. A. Clark. No. 999,546; Aug. 1; Sp. p. 701; Gaz. vol. 169; p. 120.
Knob, Screwless. W. K. Henry. No. 933,298; May 23; Sp. p. 5273; Gaz. vol. 166; p. 945.
Knob-spindle fastener. J. Powers. No. 991,018; May 2; Sp. p. 401; Gaz. vol. 166; p. 68.
Knockdown box. C. F. Jenkins. No. 981,277; Jan. 10; Sp. p. 2532; Gaz. vol. 162; p. 412.
Knockdown box. J. L. Ware. No. 991,569; May 9; Sp. p. 1598; Gaz. vol. 166; p. 294.
Knockdown box. E. G. Kohout. No. 1,001,051; Aug. 22; Sp. p. 4010; Gaz. vol. 169; p. 737.
Knockdown box. E. G. Kohout. No. 1,007,035; Oct. 24; Sp. p. 5446; Gaz. vol. 171; p. 955.
Knockdown box. W. S. Houser. No. 1,011,794; Dec. 12; Sp. p. 3139; Gaz. vol. 173; p. 524.
Knockdown case. F. A. and R. Bebout and J. R. Inglis. No. 997,894; July 11; Sp. p. 2778; Gaz. vol. 168; p. 474.
Knot-tying device. J. P. O'Connell. No. 1,008,190; Nov. 7; Sp. p. 1162; Gaz. vol. 172; p. 191.
Knot-tying implement. P. B. Parks and M. G. Singleton. No. 1,002,437; Sept. 5; Sp. p. 583; Gaz. vol. 170; p. 84.
Knotter. R. H. Moore. No. 983,922; Feb. 14; Sp. p. 1461; Gaz. vol. 163; p. 258.
Knotter. B. E. Byrd. No. 1,002,495; Sept. 5; Sp. p. 707; Gaz. vol. 170; p. 104.
Knuckle, Combination power and steering. H. W. Barger. No. 982,117; Jan. 17; Sp. p. 4327; Gaz. vol. 162; p. 722.
Knuckle-pin-retaining device. J. Kelso. No. 999,036; July 25; Sp. p. 5356; Gaz. vol. 168; p. 953.
Label. J. Czettel. No. 1,005,696; Oct. 10; Sp. p. 2480; Gaz. vol. 171; p. 425.
Label gumming and attaching machine. E. Jagenberg. No. 1,001,854; Aug. 29; Sp. p. 5674; Gaz. vol. 169; p. 1038.
Label-holder. W. R. Olin. No. 1,008,192; Nov. 7; Sp. p. 1165; Gaz. vol. 172; p. 191.
Labels or bands on filled bottles, Machine for pasting. F. E. Jagenberg. No. 987,235; Mar. 21; Sp. p. 3115; Gaz. vol. 164; p. 565.
Labels or the like, Case for holding. C. N. Weaver. No. 1,010,468; Dec. 5; Sp. p. 142; Gaz. vol. 173; p. 25.
Labeling and stamping machine. L. Fischer. No. 990,532; Apr. 25; Sp. p. 4874; Gaz. vol. 165; p. 850.
Labeling apparatus, Receptacle-. C. F. Jenkins. No. 983,060; Jan. 31; Sp. p. 6345; Gaz. vol. 162; p. 1102.
Labeling-machine. W. R. Wulfeck. No. 994,357; June 6; Sp. p. 527; Gaz. vol. 167; p. 91.
Labeling-machine. F. O. Woodland. No. 998,664; July 25; Sp. p. 4495; Gaz. vol. 168; p. 820.
Labeling-machine. J. J. Gaynor. No. 1,006,204; Oct. 17; Sp. p. 3611; Gaz. vol. 171; p. 636.
Labeling-machine. R. E. Friedlein. No. 1,007,550; Oct. 31; Sp. p. 6596; Gaz. vol. 171; p. 1190.
Labeling-machine. F. W. Wild, Jr. No. 1,011,299; Dec. 12; Sp. p. 2034; Gaz. vol. 173; p. 349.
Labeling machine, Bottle-. W. J. Evans. No. 1,007,080; Oct. 31; Sp. p. 5566; Gaz. vol. 171; p. 1024.
Labeling machine, Box-. F. Coates. No. 1,012,191; Dec. 19; Sp. p. 4039; Gaz. vol. 173; p. 696.
Labeling machine, Can-. W. R. McDonald. No. 983,157; Jan. 31; Sp. p. 6517; Gaz. vol. 162; p. 1133.
Labeling-machines, Package-holding rest for. F. O. Woodland. No. 1,010,999; Dec. 5; Sp. p. 1317; Gaz. vol. 173; p. 209.
Laboratory utensil-holder. A. L. Marsh. No. 1,012,391; Dec. 19; Sp. p. 4455; Gaz. vol. 173; p. 763.
Lac, Treatment of. W. A. Freymuth. No. 1,005,953; Oct. 17; Sp. p. 3046; Gaz. vol. 171; p. 549.
Lace. C. W. Birkin and E. Sands. No. 994,634; June 6; Sp. p. 1119; Gaz. vol. 167; p. 183.
Lace-braiding machine. H. J. Quambusch. No. 986,313; Mar. 7; Sp. p. 1160; Gaz. vol. 164; p. 187.
Lace cap, Shoe-. O. Kuehner. No. 990,991; May 2; Sp. p. 345; Gaz. vol. 166; p. 59.
Lace-machine carriage. F. Creassey. No. 998,470; July 18; Sp. p. 4067; Gaz. vol. 168; p. 721.
Lace-machines, Jacquard connection for. P. Woll, Jr. No. 980,384; Jan. 3; Sp. p. 422; Gaz. vol. 162; p. 73.
Lace or ribbon holder. J. W. Kerr. No. 980,534; Jan. 3; Sp. p. 783; Gaz. vol. 162; p. 125.
Lace retainer, Shoe-. F. M. Willis. No. 982,332; Jan. 24; Sp. p. 4774; Gaz. vol. 162; p. 826.
Lace retainer, Shoe-. H. C. Teuton. No. 1,008,681; Nov. 14; Sp. p. 2391; Gaz. vol. 172; p. 403.
Laces, Machine for forming shoe-. G. H. Davis. No. 989,838; Apr. 18; Sp. p. 3322; Gaz. vol. 165; p. 580.
Lacer, Shoe-. J. J. Thomas. No. 991,251; May 2; Sp. p. 904; Gaz. vol. 166; p. 153.
Lacing-fastener. W. E. Cram. No. 987,556; Mar. 21; Sp. p. 3764; Gaz. vol. 164; p. 672.
Lacing-hook. J. J. Jordan. No. 982,728; Jan. 24; Sp. p. 5586; Gaz. vol. 162; p. 961.
Lacing-hook. M. R. Francis. No. 1,002,053; Aug. 29; Sp. p. 6107; Gaz. vol. 169; p. 1103.
Lacing-hook-making machine. A. Raiche. No. 980,437; Jan. 3; Sp. p. 540; Gaz. vol. 162; p. 91.
Lacing hook or fastener. J. C. Morrison. No. 992,028; May 9; Sp. p. 2528; Gaz. vol. 166; p. 449.
Lacing, Shoe-. H. H. Cummings. No. 995,440; June 20; Sp. p. 2933; Gaz. vol. 167; p. 524.
Lacquered ware, Machine for manufacturing. J. H. Engleman. No. 990,644; Apr. 25; Sp. p. 5102; Gaz. vol. 165; p. 889.
Lacquered ware, Machine for manufacturing. J. H. Engleman. No. 990,645; Apr. 25; Sp. p. 5106; Gaz. vol. 165; p. 889.
Lacquering heating system. J. L. Isaacs. No. 1,000,412; Aug. 15; Sp. p. 2563; Gaz. vol. 169; p. 477.
Ladder. E. F. Dahill and G. R. Bartlett. No. 983,213; Jan. 31; Sp. p. 6628; Gaz. vol. 162; p. 1152.
Ladder. T. Jauch and B. Rosenfelder. No. 985,349; Feb. 28; Sp. p. 4534; Gaz. vol. 163; p. 813.
Ladder. T. Connors. No. 987,960; Mar. 28; Sp. p. 4720; Gaz. vol. 164; p. 842.
Ladder. P. W. Hill. No. 990,267; Apr. 25; Sp. p. 4243; Gaz. vol. 165; p. 757.
Ladder. J. L. White. No. 991,401; May 2; Sp. p. 1225; Gaz. vol. 166; p. 204.
Ladder. E. P. Palmer. No. 993,867; May 30; Sp. p. 6520; Gaz. vol. 166; p. 1175.
Ladder. T. H. Churchill. No. 997,241; July 4; Sp. p. 1352; Gaz. vol. 168; p. 221.
Ladder. A. P. Boyer. No. 1,007,327; Oct. 31; Sp. p. 6109; Gaz. vol. 171; p. 1113.
Ladder, Adjustable. A. A. Sheetz. No. 983,172; Jan. 31; Sp. p. 6545; Gaz. vol. 162; p. 1138.
Ladder, Adjustable step-. D. J. Cummings. No. 984,544; Feb. 21; Sp. p. 2813; Gaz. vol. 163; p. 502.
Ladder attachment. I. Drake. No. 992,408; May 16; Sp. p. 3407; Gaz. vol. 166; p. 613.
Ladder attachment. E. C. Mead. No. 995,273; June 13; Sp. p. 2539; Gaz. vol. 167; p. 439.
Ladder attachment, Step-. E. J. Bertke. No. 1,004,550; Oct. 3; Sp. p. 1; Gaz. vol. 171; p. 3.
Ladder-bracket. M. V. Rush. No. 988,823; Apr. 4; Sp. p. 1137; Gaz. vol. 165; p. 182.
Ladder-bracket, Adjustable. F. T. Peters. No. 995,899; June 20; Sp. p. 3950; Gaz. vol. 167; p. 685.
Ladder, Combination-. F. Petrie. No. 992,051; May 9; Sp. p. 2571; Gaz. vol. 166; p. 457.
Ladder, Combined step and extension. E. F. Welden. No. 1,010,832; Dec. 5; Sp. p. 966; Gaz. vol. 173; p. 151.
Ladder, Extensible. W. Mayer. No. 987,585; Mar. 21; Sp. p. 3835; Gaz. vol. 164; p. 683.
Ladder, Extension-. J. R. Spears. No. 982,890; Jan. 31; Sp. p. 5962; Gaz. vol. 162; p. 1046.
Ladder, Extension-. C. C. Stevens. No. 986,517; Mar. 14; Sp. p. 1619; Gaz. vol. 164; p. 288.
Ladder, Extension-. G. W. Mohrstadt. No. 989,389; Apr. 11; Sp. p. 2326; Gaz. vol. 165; p. 393.
Ladder, Extension-. R. B. Shaw. No. 992,915; May 23; Sp. p. 4474; Gaz. vol. 166; p. 820.
Ladder, Extension-. A. A. Barnes. No. 995,396; June 13; Sp. p. 2826; Gaz. vol. 167; p. 480.
Ladder, Folding. E. R. Walters. No. 983,188; Jan. 31; Sp. p. 6570; Gaz. vol. 162; p. 1143.

Ladder, Folding. W. E. Knollenberg. No. 1,004,883; Oct. 3; Sp. p. 746; Gaz. vol. 171; p. 119.
Ladder, Folding step-. L. O. Garraway. No. 988,086; Mar. 28; Sp. p. 4986; Gaz. vol. 164; p. 884.
Ladder for sleeping-cars. W. A. Cooper. No. 989,570; Apr. 18; Sp. p. 2736; Gaz. vol. 165; p. 488.
Ladder, Fruit-picker's. T. O. Hutchinson. No. 1,008,827; Nov. 14; Sp. p. 2697; Gaz. vol. 172; p. 453.
Ladder raising and lowering machine. E. F. Dahill. No. 983,212; Jan. 31; Sp. p. 6625; Gaz. vol. 162; p. 1152.
Ladder, Safety car-. M. F. Saling. No. 987,258; Mar. 21; Sp. p. 3166; Gaz. vol. 164; p. 573.
Ladder, Step-. A. S. Soule. No. 986,953; Mar. 14; Sp. p. 2531; Gaz. vol. 164; p. 437.
Ladder, Step-. W. P. Newman. No. 1,003,779; Sept. 19; Sp. p. 3479; Gaz. vol. 170; p. 619.
Ladder-support. C. W. Flightner. No. 1,007,347; Oct. 31; Sp. p. 6146; Gaz. vol. 171; p. 1120.
Ladder-support, Adjustable. F. Lehmann. No. 1,004,284; Sept. 26; Sp. p. 4632; Gaz. vol. 170; p. 819.
Ladder-users, Foot attachment for. F. N. Eldred. No. 991,774; May 9; Sp. p. 2019; Gaz. vol. 166; p. 363.
Ladders, Detachable leg for. A. Thomas. No. 1,008,931; Nov. 14; Sp. p. 2897; Gaz. vol. 172; p. 486.
Ladle. C. P. Astrom. No. 984,877; Feb. 21; Sp. p. 3502; Gaz. vol. 163; p. 619.
Ladle. A. E. Johnson. No. 990,138; Apr. 18; Sp. p. 3937; Gaz. vol. 165; p. 679.
Ladle, Built-up. C. P. Astrom. No. 1,006,519; Oct. 24; Sp. p. 4323; Gaz. vol. 171; p. 776.
Ladle, Built-up. M. H. Treadwell. No. 1,006,606; Oct. 24; Sp. p. 4537; Gaz. vol. 171; p. 809.
Ladle, Cinder-. H. D. Thompson and B. G. Jones. No. 985,227; Feb. 28; Sp. p. 4273; Gaz. vol. 163; p. 773.
Laminated board. E. C. Hiscock. No. 982,720; Jan. 24; Sp. p. 5572; Gaz. vol. 162; p. 959.
Lamp. R. H. Welles. No. 981,046; Jan. 10; Sp. p. 1996; Gaz. vol. 162; p. 329.
Lamp. W. T. Jones. No. 981,925; Jan. 17; Sp. p. 3913; Gaz. vol. 162; p. 657.
Lamp. O. A. Arneson. No. 985,318; Feb. 28; Sp. p. 4465; Gaz. vol. 163; p. 803.
Lamp. F. Longstaff. No. 985,815; Mar. 7; Sp. p. 94; Gaz. vol. 164; p. 20.
Lamp. H. J. Eber and C. T. Lentz. No. 986,557; Mar. 14; Sp. p. 1707; Gaz. vol. 164; p. 302.
Lamp. W. F. Persons. No. 986,590; Mar. 14; Sp. p. 1772; Gaz. vol. 164; p. 313.
Lamp. W. C. Coleman. No. 989,765; Apr. 18; Sp. p. 3153; Gaz. vol. 165; p. 554.
Lamp. W. C. Coleman. No. 989,766; Apr. 18; Sp. p. 3154; Gaz. vol. 165; p. 554.
Lamp. A. K. Miller. No. 992,792; May 23; Sp. p. 4194; Gaz. vol. 166; p. 775.
Lamp. W. G. Bowen. No. 994,499; June 6; Sp. p. 816; Gaz. vol. 167; p. 137.
Lamp. C. G. Myers. No. 996,662; July 4; Sp. p. 135; Gaz. vol. 168; p. 24.
Lamp. R. H. Welles. No. 997,484; July 11; Sp. p. 1837; Gaz. vol. 168; p. 331.
Lamp. W. H. Gardiner. No. 1,001,584; Aug. 22; Sp. p. 5075; Gaz. vol. 169; p. 914.
Lamp. J. Doorenbos. No. 1,002,235; Sept. 5; Sp. p. 99; Gaz. vol. 170; p. 11.
Lamp. D. A. Williams. No. 1,002,890; Sept. 12; Sp. p. 1599; Gaz. vol. 170; p. 277.
Lamp. J. D. Harris and K. A. Aczél. No. 1,003,738; Sept. 19; Sp. p. 3390; Gaz. vol. 170; p. 605.
Lamp. F. M. Euler. No. 1,004,002; Sept. 26; Sp. p. 3987; Gaz. vol. 170; p. 721.
Lamp. M. Gawell. No. 1,005,019; Oct. 3; Sp. p. 987; Gaz. vol. 171; p. 165.
Lamp. S. O. Cowper-Coles. No. 1,007,070; Oct. 31; Sp. p. 5543; Gaz. vol. 171; p. 1020.
Lamp. N. Blount. No. 1,008,777; Nov. 14; Sp. p. 2600; Gaz. vol. 172; p. 436.
Lamp. W. T. Jones. No. 1,012,647; Dec. 26; Sp. p. 4988; Gaz. vol. 173; p. 896.
Lamp, Acetylene-. J. Phalp. No. 988,810; Apr. 4; Sp. p. 1108; Gaz. vol. 165; p. 177.
Lamp, Acetylene-. H. E. Drought. No. 998,607; July 25; Sp. p. 4369; Gaz. vol. 168; p. 800.
Lamp, Acetylene-. C. L. Betts. No. 1,006,715; Oct. 24; Sp. p. 4737; Gaz. vol. 171; p. 844.
Lamp, Acetylene-. M. W. Moore. No. 1,008,923; Nov. 14; Sp. p. 2877; Gaz. vol. 172; p. 483.
Lamp, Acetylene-. P. Best. No. 1,011,561; Dec. 12; Sp. p. 2620; Gaz. vol. 173; p. 442.
Lamp, Acetylene-gas. L. Evans. No. 1,005,625; Oct. 10; Sp. p. 2332; Gaz. vol. 171; p. 400.
Lamp, Acetylene-gas. A. H. Mollman, Jr. No. 1,007,374; Oct. 31; Sp. p. 6199; Gaz. vol. 171; p. 1130.
Lamp adapted for use in brooders, incubators, &c. H. A. Nourse. No. 988,958; Apr. 4; Sp. p. 1390; Gaz. vol. 165; p. 223.
Lamp, Adjustable electric. W. S. Perry and J. O. Eis. No. 999,860; Aug. 8; Sp. p. 1326; Gaz. vol. 169; p. 256.
Lamp adjustable support, Vapor-. S. E. Flichtner. No. 990,853; May 2; Sp. p. 52; Gaz. vol. 166; p. 12.
Lamp-adjusting device, Suspended-electric-. S. Singer. No. 992,273; May 16; Sp. p. 3100; Gaz. vol. 166; p. 564.
Lamp and heater connected therewith, Gas or vapor. H. N. Potter. No. 1,012,706; Dec. 26; Sp. p. 5114; Gaz. vol. 173; p. 917.
Lamp and holder, Electric incandescent. C. Damey. No. 1,011,166; Dec. 12; Sp. p. 1727; Gaz. vol. 173; p. 302.
Lamp and number holder. H. F. Provandie. No. 996,278; June 27; Sp. p. 4790; Gaz. vol. 167; p. 849.
Lamp and reflector holder. A. J. Morgan. No. 988,487; Apr. 4; Sp. p. 418; Gaz. vol. 165; p. 68.
Lamp and series-circuit cut-out, Electric-. F. W. Andrew. No. 1,005,129; Oct. 10; Sp. p. 1185; Gaz. vol. 171; p. 223.
Lamp and shade holder, Combined. J. Stoddart. No. 1,000,452; Aug. 15; Sp. p. 2644; Gaz. vol. 169; p. 491.
Lamp and sign, Combination. J. D. Steward. No. 990,462; Apr. 25; Sp. p. 4698; Gaz. vol. 165; p. 826.
Lamp apparatus, Portable-. R. M. Eaton. No. 994,094; May 30; Sp. p. 6976; Gaz. vol. 166; p. 1251.
Lamp, Arc-. C. A. Hughes. No. 980,639; Jan. 3; Sp. p. 982; Gaz. vol. 162; p. 161.
Lamp, Arc-. S. P. Wilbur. No. 989,518; Apr. 11; Sp. p. 2597; Gaz. vol. 165; p. 438.
Lamp, Arc-. W. F. Davis. No. 989,698; Apr. 18; Sp. p. 3017; Gaz. vol. 165; p. 531.
Lamp, Arc-. H. Friedrichsen. No. 991,495; May 9; Sp. p. 1428; Gaz. vol. 166; p. 269.
Lamp, Arc-. A. Blondel. No. 992,479; May 16; Sp. p. 3556; Gaz. vol. 166; p. 637.
Lamp, Arc-. M. Körting. No. 994,261; June 6; Sp. p. 330; Gaz. vol. 167; p. 57.
Lamp, Arc-. J. H. Allen. No. 996,392; June 27; Sp. p. 5054; Gaz. vol. 167; p. 890.
Lamp, Arc-. A. Schellenberger. No. 996,429; June 27; Sp. p. 5156; Gaz. vol. 167; p. 903.
Lamp, Arc-. G. M. Guerrant. No. 996,849; July 4; Sp. p. 512; Gaz. vol. 168; p. 84.
Lamp, Arc-. O. A. Ross. No. 999,340; Aug. 1; Sp. p. 281; Gaz. vol. 169; p. 52.
Lamp, Arc-. G. M. Dyott and C. Carson. No. 999,761; Aug. 8; Sp. p. 1126; Gaz. vol. 169; p. 223.
Lamp, Arc-. W. Rühling. No. 1,001,453; Aug. 22; Sp. p. 4834; Gaz. vol. 169; p. 871.
Lamp, Arc-. J. A. Ziegenfuss. No. 1,002,622; Sept. 5; Sp. p. 992; Gaz. vol. 170; p. 147.
Lamp, Arc-. J. W. Kendrick. No. 1,007,003; Oct. 24; Sp. p. 5384; Gaz. vol. 171; p. 944.
Lamp, Arc-. K. Cosiolkofsky. No. 1,007,674; Nov. 7; Sp. p. 31; Gaz. vol. 172; p. 8.
Lamp, Arc-. C. A. B. Halvorson, Jr. No. 1,010,900; Dec. 5; Sp. p. 1112; Gaz. vol. 173; p. 175.
Lamp attachment. H. Lehmann. No. 1,007,461; Oct. 31; Sp. p. 6389; Gaz. vol. 171; p. 1160.
Lamp attachment, Vapor-. A. Dempster. No. 1,006,729; Oct. 24; Sp. p. 4762; Gaz. vol. 171; p. 848.
Lamp, Automatic arc-. E. Sailer. No. 981,121; Jan. 10; Sp. p. 2161; Gaz. vol. 162; p. 356.
Lamp, Automobile-. H. J. Knipple. No. 982,142; Jan. 17; Sp. p. 4367; Gaz. vol. 162; p. 730.
Lamp, Automobile-. C. W. Harris. No. 984,088; Feb. 14; Sp. p. 1824; Gaz. vol. 163; p. 314.
Lamp, Automobile-. L. J. Wogenstahl. No. 991,587; May 9; Sp. p. 1645; Gaz. vol. 166; p. 302.
Lamp, Automobile-. R. Jackson. No. 1,007,952; Nov. 7; Sp. p. 689; Gaz. vol. 172; p. 106.
Lamp bases, Apparatus for making electric-. J. E. Crigal. No. 1,011,586; Dec. 12; Sp. p. 2704; Gaz. vol. 173; p. 453.
Lamp, Berth-. M. M. Schneider. No. 994,203; June 6; Sp. p. 214; Gaz. vol. 167; p. 37.
Lamp, Blow-. J. B. Coe. No. 1,009,132; Nov. 21; Sp. p. 3342; Gaz. vol. 172; p. 591.
Lamp-box. W. R. Bowles. No. 1,000,231; Aug. 8; Sp. p. 2156; Gaz. vol. 169; p. 383.
Lamp, Bracket-. W. C. Coleman. No. 989,767; Apr. 18; Sp. p. 3158; Gaz. vol. 165; p. 555.
Lamp-bracket. W. H. Cross. No. 992,756; May 23; Sp. p. 4123; Gaz. vol. 166; p. 763.
Lamp-bracket. W. F. Morrill. No. 995,411; June 13; Sp. p. 2856; Gaz. vol. 167; p. 485.
Lamp-bracket. F. J. Sears. No. 1,001,897; Aug. 29; Sp. p. 5781; Gaz. vol. 169; p. 1054.
Lamp-bracket, Automobile. R. H. Rohrer. No. 987,322; Mar. 21; Sp. p. 3311; Gaz. vol. 164; p. 594.
Lamp-bracket for motor-cars and other vehicles, Adjustable. G. T. Hilton and F. B. Coppell. No. 984,813; Feb. 21; Sp. p. 3390; Gaz. vol. 163; p. 598.
Lamp bulbs, Apparatus for evacuating incandescent-. J. R. Massey. No. 996,936; July 4; Sp. p. 698; Gaz. vol. 168; p. 115.
Lamp-burner. J. N. Hodgson. No. 980,952; Jan. 10; Sp. p. 1716; Gaz. vol. 162; p. 296.
Lamp-burner. E. L. J. Davis. No. 984,357; Feb. 14; Sp. p. 2390; Gaz. vol. 163; p. 405.
Lamp-burner. J. E. Robertson. No. 989,424; Apr. 11; Sp. p. 2399; Gaz. vol. 165; p. 405.
Lamp-burner. F. E. Hanvey and L. W. Davis. No. 991,441; May 2; Sp. p. 1305; Gaz. vol. 166; p. 218.
Lamp-burner. A. R. Boynton. No. 1,000,370; Aug. 15; Sp. p. 2470; Gaz. vol. 169; p. 462.
Lamp-burner. F. D. Spear. No. 1,003,157; Sept. 12; Sp. p. 2143; Gaz. vol. 170; p. 368.

Alphabetical list of inventions—Continued.

Lamp-burner. F. Pujol. No. 1,004,197; Sept. 26; Sp. p. 4470; Gaz. vol. 170; p. 791.
Lamp-burner attachment. H. E. Durham. No. 1,006,372; Oct. 17; Sp. p. 3984; Gaz. vol. 171; p. 694.
Lamp burner, Incandescent-vapor-gas-. C. H. Smith. No. 987,022; Mar. 14; Sp. p. 2651; Gaz. vol. 164; p. 458.
Lamp burner, Inverted-. E. H. Palmer. No. 1,005,460; Oct. 10; Sp. p. 1938; Gaz. vol. 171; p. 342.
Lamp burner, Petroleum-vapor-. O. Johansen. No. 983,722; Feb. 7; Sp. p. 1000; Gaz. vol. 163; p. 159.
Lamp burner, Vapor-. C. A. Yates. No. 993,809; May 30; Sp. p. 6415; Gaz. vol. 166; p. 1156.
Lamp, Candle-. P. L. F. H. Chaussinand. No. 997,751; July 11; Sp. p. 2441; Gaz. vol. 168; p. 426.
Lamp, Candle-. C. E. Kail. No. 1,007,875; Nov. 7; Sp. p. 526; Gaz. vol. 172; p. 80.
Lamp-cap. J. F. Heinisch. No. 1,010,047; Nov. 28; Sp. p. 5312; Gaz. vol. 172; p. 952.
Lamp, Carbid-. F. Bradoc and W. Frost. No. 988,166; Mar. 28; Sp. p. 5130; Gaz. vol. 164; p. 910.
Lamp, Chafing-dish. A. H. S. Swan. No. 1,012,748; Dec. 26; Sp. p. 5200; Gaz. vol. 173; p. 931.
Lamp changer, Electric-. M. Ferguson. No. 987,562; Mar. 21; Sp. p. 3773; Gaz. vol. 164; p. 674.
Lamp-chimney heating attachment. W. S. Southwick. No. 989,657; Apr. 18; Sp. p. 2932; Gaz. vol. 165; p. 517.
Lamp-chimney holder. R. M. Le Grand. No. 984,944; Feb. 21; Sp. p. 3634; Gaz. vol. 163; p. 641.
Lamp-chimney holder. O. J. Himes. No. 989,150; Apr. 11; Sp. p. 1803; Gaz. vol. 165; p. 313.
Lamp-chimney holder. C. Alphin. No. 990,181; Apr. 18; Sp. p. 4033; Gaz. vol. 165; p. 694.
Lamp-chimney holder. E. F. Drake. No. 1,002,568; Sept. 5; Sp. p. 869; Gaz. vol. 170; p. 128.
Lamp chimney, Incubator-. G. H. Lee. No. 998,537; July 18; Sp. p. 4197; Gaz. vol. 168; p. 744.
Lamp cleaner, Arc-. L. Wipfeler. No. 981,233; Jan. 10; Sp. p. 2447; Gaz. vol. 162; p. 397.
Lamp cleaner, Electric-. E. E. Edgerton. No. 1,007,853; Nov. 7; Sp. p. 485; Gaz. vol. 172; p. 72.
Lamp cluster, Electric-. R. B. Benjamin. No. 996,963; July 4; Sp. p. 763; Gaz. vol. 168; p. 124.
Lamp collar, Glass-. E. W. Bryce. No. 1,003,699; Sept. 19; Sp. p. 3307; Gaz. vol. 170; p. 592.
Lamp control, Automobile. W. E. Andersen. No. 982,112; Jan. 17; Sp. p. 4317; Gaz. vol. 162; p. 720.
Lamp-controller, Automobile. R. H. Eneix and R. W. E. Lowell. No. 998,760; July 25; Sp. p. 4725; Gaz. vol. 168; p. 855.
Lamp-controlling device for motor-cars. W. A. Greenlaw. No. 1,007,688; Nov. 7; Sp. p. 67; Gaz. vol. 172; p. 12.
Lamp-cord adjuster. W., E., and G. Hagstrom. No. 986,383; Mar. 7; Sp. p. 1318; Gaz. vol. 164; p. 212.
Lamp, Dirigible. F. J. Kopel. No. 1,009,530; Nov. 21; Sp. p. 4258; Gaz. vol. 172; p. 733.
Lamp, Dirigible automobile-. F. F. Ogier. No. 988,135; Mar. 28; Sp. p. 5071; Gaz. vol. 164; p. 900.
Lamp-door-fastening device. W. T. Jones. No. 1,010,432; Dec. 5; Sp. p. 58; Gaz. vol. 173; p. 12.
Lamp-door-fastening device. W. T. Jones. No. 1,011,206; Dec. 12; Sp. p. 1809; Gaz. vol. 173; p. 315.
Lamp, Electric. J. O. Camp, Jr. No. 982,470; Jan. 24; Sp. p. 5078; Gaz. vol. 162; p. 876.
Lamp, Electric. E. Beaucoudray and E. Stoltz. No. 990,514; Apr. 25; Sp. p. 4850; Gaz. vol. 165; p. 846.
Lamp, Electric. W. A. Harvey. No. 998,895; July 25; Sp. p. 5028; Gaz. vol. 168; p. 903.
Lamp, Electric. S. P. Wilbur. No. 1,000,471; Aug. 15; Sp. p. 2687; Gaz. vol. 169; p. 498.
Lamp, Electric-arc. J. T. H. Dempster. No. 981,248; Jan. 10; Sp. p. 2474; Gaz. vol. 162; p. 402.
Lamp, Electric-arc. W. R. Ridings. No. 989,292; Apr. 11; Sp. p. 2123; Gaz. vol. 165; p. 362.
Lamp, Electric-arc. O. A. Ross. No. 994,427; June 6; Sp. p. 679; Gaz. vol. 167; p. 116.
Lamp, Electric-arc. J. H. Hallberg. No. 994,833; June 13; Sp. p. 1622; Gaz. vol. 167; p. 293.
Lamp, Electric-arc. J. H. Hallberg. No. 994,834; June 13; Sp. p. 1629; Gaz. vol. 167; p. 293.
Lamp, Electric-arc. J. H. Hallberg. No. 994,835; June 13; Sp. p. 1633; Gaz. vol. 167; p. 293.
Lamp, Electric-arc. J. H. Hallberg. No. 994,836; June 13; Sp. p. 1635; Gaz. vol. 167; p. 294.
Lamp, Electric-arc. J. H. Hallberg. No. 994,837; June 13; Sp. p. 1639; Gaz. vol. 167; p. 295.
Lamp, Electric-arc. L. C. H. Mensing. No. 996,501; June 27; Sp. p. 5284; Gaz. vol. 167; p. 927.
Lamp, Electric-arc. S. Szubert. No. 998,212; July 18; Sp. p. 3485; Gaz. vol. 168; p. 628.
Lamp, Electric-arc. M. Körting. No. 1,007,211; Oct. 31; Sp. p. 5873; Gaz. vol. 171; p. 1072.
Lamp, Electric hand-. J. W. Mead. No. 983,742; Feb. 7; Sp. p. 1033; Gaz. vol. 163; p. 165.
Lamp, Electric hand-. H. Siegenbruch. No. 995,100; June 13; Sp. p. 2204; Gaz. vol. 167; p. 383.
Lamp, Electric incandescent. H. Remané. No. 994,690; June 6; Sp. p. 1256; Gaz. vol. 167; p. 203.
Lamp, Electric incandescent. H. C. G. Remané. No. 997,413; July 11; Sp. p. 1698; Gaz. vol. 168; p. 309.
Lamp, Electric mercury-vapor. J. M. Anck. No. 998,223; July 18; Sp. p. 3517; Gaz. vol. 168; p. 632.
Lamp, Electric safety-. B. Christiansen. No. 999,298; Aug. 1; Sp. p. 202; Gaz. vol. 169; p. 38.
Lamp-extinguisher, Safety. L. Kvindegard. No. 994,758; June 13; Sp. p. 1453; Gaz. vol. 167; p. 268.
Lamp, Fixture-. M. Harris. No. 983,364; Feb. 7; Sp. p. 235; Gaz. vol. 163; p. 40.
Lamp-fixture. T. A. Legge. No. 994,847; June 13; Sp. p. 1657; Gaz. vol. 167; p. 297.
Lamp fixture, Electric-. T. F. Miller. No. 985,432; Feb. 28; Sp. p. 4731; Gaz. vol. 163; p. 841.
Lamp fixture, Electric-. W. C. Hine No. 999,998; Aug. 8; Sp. p. 1611; Gaz. vol. 169; p. 303.
Lamp fixture, Electric-. J. H. Kingsley. No. 1,001,649; Aug. 29; Sp. p. 5217; Gaz. vol. 169; p. 967.
Lamp, Folding candle-. J. W. Ellis. No. 983,987; Feb. 14; Sp. p. 1609; Gaz. vol. 163; p. 278.
Lamp for automobiles, Dirigible. S. Szekely. No. 1,008,090; Nov. 7; Sp. p. 948; Gaz. vol. 172; p. 153.
Lamp for automobiles, Dirigible. J. Drzewiecki. No. 1,008,962; Nov. 14; Sp. p. 2978; Gaz. vol. 172; p. 496.
Lamp for automobiles or other vehicles. E. D. Dunning. No. 982,803; Jan. 31; Sp. p. 5766; Gaz. vol. 162; p. 1016.
Lamp for liquid fuel, Self-pressure. F. J. H. Rustige No. 1,006,133; Oct. 17; Sp. p. 3425; Gaz. vol. 171; p. 610.
Lamp for motion-picture machines. J. H. Crosier. No. 1,000,964; Aug. 15; Sp. p. 3758; Gaz. vol. 169; p. 671.
Lamp for vehicles, Combined signal and sign-displaying. A. M. Puckett. No. 1,005,306; Oct. 10; Sp. p. 1611; Gaz. vol. 171; p. 289.
Lamp for vehicles, Signal-. A. M. Puckett. No. 1,003,949; Sept. 19; Sp. p. 3857; Gaz. vol. 170; p. 677.
Lamp, Gas-. W. S. Levings. No. 980,298; Jan. 3; Sp. p. 221; Gaz. vol. 162; p. 42.
Lamp, Gas-. A. H. Humphrey. No. 985,261; Feb. 28; Sp. p. 4340; Gaz. vol. 163; p. 784.
Lamp, Gas-. T. J. Litle, Jr. No. 986,300; Mar. 7; Sp. p. 1124; Gaz. vol. 164; p. 182.
Lamp, Gas-. G. Wedderburn. No. 989,092; Apr. 11; Sp. p. 1687; Gaz. vol. 165; p. 293.
Lamp, Gas-. V. A. Rettich. No. 1,002,315; Sept. 5; Sp. p. 295; Gaz. vol. 170; p. 41.
Lamp, Gas-. M. L. Keiser. No. 1,007,114; Oct. 31; Sp. p. 5639; Gaz. vol. 171; p. 1036.
Lamp, Gas-. E. A. Gillinder. No. 1,007,860; Nov. 7; Sp. p. 498; Gaz. vol. 172; p. 74.
Lamp, Gasolene-. H. C. Albrecht. No. 991,815; May 9; Sp. p. 2125; Gaz. vol. 166; p. 378.
Lamp-globe holder. T. J. Litle, Jr No. 993,085; May 23; Sp. p. 4842; Gaz. vol. 166; p. 879.
Lamp-globe holder. T. J. Litle, Jr No. 1,008,836; Nov. 14; Sp. p. 2714; Gaz vol. 172; p. 456.
Lamp-globe-holding device. T. J. Litle, Jr. No. 1,002,592; Sept. 5; Sp. p. 916; Gaz. vol. 170; p. 136.
Lamp globe or shade, Gas-. T. J. Litle, Jr. No. 982,511; Jan. 24; Sp. p. 5160; Gaz. vol. 162; p. 889.
Lamp-globes and the like, Holder for. D. Mitton. No. 994,181; June 6; Sp. p. 161; Gaz. vol. 167; p. 28.
Lamp globes, shades, &c., Auxiliary holder for. M. Herskovitz. No. 985,031; Feb. 21; Sp. p. 3796; Gaz. vol. 163; p. 670.
Lamp glower, Electrical-incandescent-. O. M. Thowless. No. 982,751; Jan. 24; Sp. p. 5642; Gaz. vol. 162; p. 968.
Lamp-guard. H. Hubbell. No. 989,013; Apr. 11; Sp. p. 1516; Gaz. vol. 165; p. 266.
Lamp-guard. O. S. Ryerson. No. 1,003,515; Sept. 19; Sp. p. 2882; Gaz. vol. 170; p. 526.
Lamp guard, Incandescent-. W. N. Matthews. No. 997,460; July 11; Sp. p. 1785; Gaz. vol. 168; p. 323.
Lamp-guard, Nesting. H. Hubbell. No. 1,012,553; Dec. 19; Sp. p. 4770; Gaz. vol. 173; p. 819.
Lamp-hanger. L. B. Hornbeck. No. 993,525; May 30; Sp. p. 5785; Gaz. vol. 166; p. 1057.
Lamp hanger, Electric-. J. E. Mayo. No. 984,687; Feb. 21; Sp. p. 3120; Gaz. vol. 163; p. 552.
Lamp hangers, Locking device for arc-. C. W. Mansur. No. 1,006,766; Oct. 24; Sp. p. 4858; Gaz. vol. 171; p. 862.
Lamp-holder. T. B. Monosmith. No. 981,586; Jan. 10; Sp. p. 3174; Gaz. vol. 162; p. 517.
Lamp holder, Electric-. S. B. Freiberg. No. 990,856; May 2; Sp. p. 62; Gaz. vol. 166; p. 13.
Lamp holder, Miner's-. W. S. Adams. No. 1,011,003; Dec. 5; Sp. p. 1324; Gaz. vol. 173; p. 210.
Lamp-holding socket, Electric-. H. W. Lawrence. No. 980,805; Jan. 3; Sp. p. 1340; Gaz. vol. 162; p. 215.
Lamp, Hydrocarbon-. J. F. Lawrence. No. 1,012,259; Dec. 19; Sp. p. 4187; Gaz. vol. 173; p. 719.
Lamp. Hydrocarbon incandescent. J. Goulet. No. 1,011,943; Dec. 19; Sp. p. 3478; Gaz. vol. 173; p. 609.
Lamp igniter, Gas-. F. W. Hill. No. 1,009,969; Nov. 28; Sp. p. 5131; Gaz. vol. 172; p 925.
Lamp, Illuminating-. N. J. Verret. No. 996,436; June 27; Sp. p. 5167; Gaz. vol. 167; p. 905.
Lamp, Incandescent. E. Thomson. No. 980,703; Jan. 3; Sp. p. 1134; Gaz. vol. 162; p. 181.
Lamp, Incandescent. A. S. Knight. No. 985,422; Feb. 28; Sp. p. 4697; Gaz. vol. 163; p. 837.
Lamp, Incandescent. C. E. Campbell. No. 988,308; Apr. 4; Sp. p. 23; Gaz. vol. 165; p. 7.
Lamp, Incandescent. M. M. Merritt. No. 995,077; June 13; Sp. p. 2166; Gaz. vol. 167; p. 376.

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Lamp, Incandescent. S. D. Washburn. No. 1,008,933; Nov. 14; Sp. p. 2899; Gaz. vol. 172; p. 487.
Lamp, Incandescent. M. M. Merritt. No. 1,010,165; Nov. 28; Sp. p. 5536; Gaz. vol. 172; p. 991.
Lamp, Incandescent. M. M. Merritt. No. 1,010,295; Nov. 28; Sp. p. 5806; Gaz. vol. 172; p. 1035.
Lamp, Incandescent electric. M. H. Welsh. No. 988,416; Apr. 4; Sp. p. 273; Gaz. vol. 165; p. 44.
Lamp, Incandescent electric. H. T. Crane. No. 990,709; Apr. 25; Sp. p. 5271; Gaz. vol. 165; p. 909.
Lamp, Incandescent electric. W. R. Whitney. No. 991,578; May 9; Sp. p. 1619; Gaz. vol. 166; p. 298.
Lamp, Incandescent electric. J. J. Rooney. No. 1,011,890; Dec. 12; Sp. p. 3346; Gaz. vol. 173; p. 555.
Lamp, Incandescent gas-. C. A. Campbell. No. 982,471; Jan. 24; Sp. p. 5080; Gaz. vol. 162; p. 877.
Lamp, Incandescent gas-. M. Graetz. No. 988,330; Apr. 4; Sp. p. 84; Gaz. vol. 165; p. 15.
Lamp, Incandescent gas-. C. W. Harrison and A. C. Noad. No. 988,775; Apr. 4; Sp. p. 1042; Gaz. vol. 165; p. 166.
Lamp, Incandescent oil-. H. Wauthoz. No. 999,070; July 25; Sp. p. 5421; Gaz. vol. 168; p. 964.
Lamp, Incandescent vapor-. M. Meissner. No. 1,005,651; Oct. 10; Sp. p. 2391; Gaz. vol. 171; p. 410.
Lamp, Incandescing. T. White. No. 983,336; Feb. 7; Sp. p. 168; Gaz. vol. 163; p. 29.
Lamp, Indicating tail-. M. S. Rosenfeld. No. 1,010,806; Dec. 5; Sp. p. 902; Gaz. vol. 173; p. 141.
Lamp, Inverted-arc gas-. F. W. Magee. No. 1,007,713; Nov. 7; Sp. p. 134; Gaz. vol. 172; p. 22.
Lamp, Inverted incandescent gas-. A. Giorgi. No. 985,580; Feb. 28; Sp. p. 5060; Gaz. vol. 163; p. 894.
Lamp, Inverted incandescent gas-. J. T. Lister. No. 992,219; May 16; Sp. p. 2938; Gaz. vol. 166; p. 546.
Lamp, Inverted incandescent gas-. G. Lentschat. No. 1,010,275; Nov. 28; Sp. p. 5764; Gaz. vol. 172; p. 1028.
Lamp, Inverted-incandescent-mantle. R. E. Bruckner. No. 982,790; Jan. 31; Sp. p. 5737; Gaz. vol. 162; p. 1011.
Lamp-lighting apparatus. E. Barber. No. 983,113; Jan. 31; Sp. p. 6446; Gaz. vol. 162; p. 1120.
Lamp-lighting attachment, Miner's-. J. Chevallard. No. 998,466; July 18; Sp. p. 4060; Gaz. vol. 168; p. 719.
Lamp-lock. C. L. Hoffman. No. 1,005,216; Oct. 10; Sp. p. 1381; Gaz. vol. 171; p. 254.
Lamp lock, Incandescent-. C. W. Trulock. No. 992,084; May 9; Sp. p. 2634; Gaz. vol. 166; p. 469.
Lamp lock, Incandescent-. A. O. Mackin. No. 994,854; June 13; Sp. p. 1672; Gaz. vol. 167; p. 300.
Lamp, Locomotive-cab. C. P. Estes. No. 1,000,502; Aug. 15; Sp. p. 2751; Gaz. vol. 169; p. 509.
Lamp, Locomotive-cab. C. P. Estes. No. 1,007,652; Oct. 31; Sp. p. 6813; Gaz. vol. 171; p. 1224.
Lamp, Magazine electric-arc. J. Brockie. No. 990,103; Apr. 18; Sp. p. 3868; Gaz. vol. 165; p. 668.
Lamp-making machine. A. Swan. No. 1,011,523; Dec. 12; Sp. p. 2523; Gaz. vol. 173; p. 429.
Lamp, Mercury-vapor. A. E. Richardson. No. 1,010,455; Dec. 5; Sp. p. 101; Gaz. vol. 173; p. 21.
Lamp, Metallic-filament. O. Birnbaum. No. 1,009,129; Nov. 21; Sp. p. 3339; Gaz. vol. 172; p. 590.
Lamp, Miner's. G. Laws. No. 982,612; Jan. 24; Sp. p. 5357; Gaz. vol. 162; p. 923.
Lamp, Miner's. P. Rennert. No. 987,744; Mar. 28; Sp. p. 4196; Gaz. vol. 164; p. 766.
Lamp, Miner's. R. D. Cochrane. No. 994,123; June 6; Sp. p. 42; Gaz. vol. 167; p. 9.
Lamp, Miner's. J. A. Roush. No. 995,909; June 20; Sp. p. 3968; Gaz. vol. 167; p. 689.
Lamp, Miner's. G. I. Rawson and L. B. Shultz. No. 996,675; July 4; Sp p. 160; Gaz. vol. 168; p. 28.
Lamp, Miner's. J. Jonszta. No. 998,778; July 25; Sp. p. 4766; Gaz. vol. 168; p. 861.
Lamp, Miner's acetylene-. J. Taylor. No. 996,950; July 4; Sp. p. 733; Gaz. vol. 168; p. 120.
Lamp, Miner's and the like electric safety-. C. V. A. Eley and T. P. Brady. No. 988,321; Apr. 4; Sp. p. 56; Gaz. vol. 165; p. 12.
Lamp, Miner's safety-. I. Koyanagi. No. 1,001,052; Aug. 22; Sp. p. 4011; Gaz. vol. 169; p. 738.
Lamp, Miner's safety-. M. F. Smith. No. 1,011,868; Dec. 12; Sp. p. 3293; Gaz. vol. 173; p. 547.
Lamp, Oil-. A. G. Kaufman. No. 1,001,859; Aug. 29; Sp. p. 5684; Gaz. vol. 169; p. 1040.
Lamp or illuminator. W. K. Lenhart. No. 1,003,762; Sept. 19; Sp. p. 3434; Gaz. vol. 170; p 613.
Lamp or like holder, Incandescent-electric-. H. O. Beige. No. 992,636; May 16; Sp. p. 3883; Gaz. vol. 166; p. 692.
Lamp, Piano-. J. G. MacKenzie. No. 987,004; Mar. 14; Sp. p. 2619; Gaz. vol. 164; p. 453.
Lamp, Pocket-. J. C. C. Lenz. No. 987,247; Mar. 21; Sp. p. 3143; Gaz. vol. 164; p. 569.
Lamp, Pocket-. A. Cotils. No. 987,961; Mar. 28; Sp. p. 4721; Gaz. vol. 164; p. 843.
Lamp, Pocket-. G. De Fernanzo. No. 1,009,053; Nov. 21; Sp. p. 3179; Gaz. vol. 172; p. 564.
Lamp, Portable electric. E. M. Tyler. No. 1,007,404; Oct. 31; Sp. p. 6267; Gaz. vol. 171; p. 1141.
Lamp, Portable electric hand-. H. P. Wellman. No. 982,651; Jan. 24; Sp. p. 5425; Gaz. vol. 162; p. 936.
Lamp-post. C. C. Larkins. No. 998,701; July 25; Sp. p. 4574; Gaz. vol. 168; p. 833.
Lamp-protector, Attachable. D. T. Singleton. No. 1,012,460; Dec. 19; Sp. p. 4585; Gaz. vol. 173; p. 786.
Lamp-raising device, Signal-. J. D. Sampley. No. 1,013,069; Dec. 26; Sp. p. 5947; Gaz. vol. 173; p. 1041.
Lamp-receptacle and holding means therefor. H. T. Hochhausen. No. 984,561; Feb. 21; Sp. p. 2856; Gaz. vol. 163; p. 508.
Lamp receptacle, Electric-. J. G. Peterson. No. 985,629; Feb. 28; Sp. p. 5150; Gaz. vol. 163; p. 910.
Lamp-regulator. E. H. Smith. No. 997,155; July 4; Sp. p. 1181; Gaz. vol. 168; p. 191.
Lamp regulator, Electric- E. Johnson. No. 993,301; May 23; Sp. p. 5277; Gaz. vol. 166; p. 947.
Lamp, Safety-. G. A. Wiede. No. 1,011,543; Dec. 12; Sp. p. 2575; Gaz. vol. 173; p. 436.
Lamp-shade. W. Person and A. C. Abramson. No. 985,929; Mar. 7; Sp. p. 376; Gaz. vol. 164; p. 59.
Lamp-shade. J. J. Ritter. No. 993,877; May 30; Sp. p. 6540; Gaz. vol. 166; p. 1179.
Lamp shade and reflector, Electric-. E. P. Mitchell. No. 981,585; Jan. 10; Sp. p. 3172; Gaz. vol. 162; p. 517.
Lamp-shade holder. T. A. Legge and P. Huston. No. 998,971; July 25; Sp. p. 5219; Gaz. vol. 168; p. 930.
Lamp-shade holder. H. H. Palmer. No. 1,010,307; Nov. 28; Sp. p. 5832; Gaz. vol. 172; p. 1038.
Lamp-shade holder. J. Cruikshank. (Reissue.) No. 13,322; Nov. 28; Sp. p. 6043; Gaz. vol. 172; p. 1070.
Lamp shade-holder, Electric-. W. C. Tregoning. No. 991,762; May 9; Sp. p. 1999; Gaz. vol. 166; p. 359.
Lamp shade-holder, Electric-. W. C. Tregoning. No. 991,763; May 9; Sp. p. 2000; Gaz. vol. 166; p. 360.
Lamp shade-holder, Electric-. A. C. Recker. No. 997,006; July 4; Sp. p. 886; Gaz. vol. 168; p. 141.
Lamp shade-holder, Incandescent-electric-. W. H. Burt. No. 998,071; July 18; Sp. p. 3188; Gaz. vol. 168; p. 578.
Lamp-shades, Non-combustible reflecting material for. C. J. Branch. No. 1,002,216; Sept. 5; Sp. p. 43; Gaz. vol. 170; p. 5.
Lamp-shifter. I. R. Shockey. No. 1,004,484; Sept. 26; Sp. p. 5045; Gaz. vol. 170; p. 888.
Lamp-socket. H. E. Reeve. No. 980,438; Jan. 3; Sp. p. 543; Gaz. vol. 162; p. 92.
Lamp-socket. N. Marshall. No. 987,152; Mar. 21; Sp. p. 2922; Gaz. vol. 164; p. 534.
Lamp-socket. R. B. Benjamin. No. 987,690; Mar. 28; Sp. p. 4079; Gaz. vol. 164; p. 749.
Lamp-socket. N. Marshall. No. 989,623; Apr. 18; Sp. p. 2860; Gaz. vol. 165; p. 506.
Lamp-socket. W. C. Tregoning. No. 991,761; May 9; Sp. p. 1998; Gaz. vol. 166; p. 359.
Lamp-socket. E. E. Taylor and D. H. Elkins. No. 997,588; July 11; Sp. p. 2053; Gaz. vol. 168; p. 366.
Lamp-socket. L. Güdeman. No. 1,001,843; Aug. 29; Sp. p. 5650; Gaz. vol. 169; p. 1034.
Lamp-socket. H. J. Morey and F. A. Brogden. No. 1,007,791; Nov. 7; Sp. p. 320; Gaz. vol. 172; p. 51.
Lamp-socket, All-porcelain electrical. F. H. Freeman. No. 1,005,635; Oct. 10; Sp. p. 2350; Gaz. vol. 171; p. 404.
Lamp-socket attachment, Incandescent-. L. H. Harding. No. 989,845; Apr. 18; Sp. p. 3339; Gaz. vol. 165; p. 582.
Lamp-socket, Battery. G. N. Eastman. No. 985,018; Feb. 21; Sp. p. 3775; Gaz. vol. 163; p. 666.
Lamp-socket cap, Electric-. G. W. Goodridge. No. 987,356; Mar. 21; Sp. p. 3373; Gaz. vol. 164; p. 606.
Lamp-socket casing. C. J. Klein. No. 1,007,359; Oct. 31; Sp. p. 6170; Gaz. vol. 171; p. 1125.
Lamp-socket, Cluster. R. B. Benjamin. No. 980,912; Jan. 10; Sp. p. 1627; Gaz. vol. 162; p. 282.
Lamp-socket, Cluster. R. B. Benjamin. No. 980,913; Jan. 10; Sp. p. 1631; Gaz. vol. 162; p. 283.
Lamp-socket, Cluster. N. Weeks. No. 992,306; May 16; Sp. p. 3174; Gaz. vol. 166; p. 577.
Lamp socket, Electric-. R. B. Benjamin. No. 981,242; Jan. 10; Sp. p. 2463; Gaz. vol. 162; p. 400.
Lamp socket, Electric-. J. S. Stewart. No. 984,245; Feb. 14; Sp. p. 2161; Gaz. vol. 163; p. 367.
Lamp socket, Electric-. G. B. Thomas. No. 987,414; Mar. 21; Sp. p. 3501; Gaz. vol. 164; p. 625.
Lamp socket, Electric-. G. W. Goodridge. (Reissue.) No. 13,227; Apr. 18; Sp. p. 4097; Gaz. vol. 165; p. 705.
Lamp socket, Electric-. F. A. Lavercombe. No. 999,234; Aug. 1; Sp. p. 81; Gaz. vol. 169; p. 16.
Lamp socket, Electric-. F. E. Seeley. No. 1,006,884; Oct. 24; Sp. p. 5142; Gaz. vol. 171; p. 905.
Lamp socket, Electric-. G. B. Thomas. No. 1,010,985; Dec. 5; Sp. p. 1287; Gaz. vol. 173; p. 205.
Lamp socket, Electric-glow-. T. E. Murray. No. 986,743; Mar. 14; Sp. p. 2086; Gaz. vol. 164; p. 365.
Lamp-socket fastening. H. Christensen No. 985,395; Feb. 28; Sp. p. 4621; Gaz. vol. 163; p. 828.
Lamp socket, Incandescent-. F. E. Seeley. No. 982,693; Jan. 24; Sp. p. 5512; Gaz. vol. 162; p. 950.
Lamp socket, Incandescent-. L. J. Castonguay. No. 986,138; Mar. 7; Sp. p. 796; Gaz. vol. 164; p. 129.
Lamp socket, Incandescent-. H. E. Evans. No. 995,238; June 13; Sp. p. 2467; Gaz. vol. 167; p. 427.
Lamp socket, Incandescent-. E. M. Kemp. No. 995,970; June 20; Sp. p. 4084; Gaz. vol. 167; p. 711.

Alphabetical list of inventions—Continued.

Lamp socket, Incandescent-. C. D. Platt. No. 1,009,565; Nov. 21; Sp. p. 4327; Gaz. vol. 172; p. 744.
Lamp socket, Incandescent-electric-. J. S. Crossley. No. 995,772; June 20; Sp. p. 3680; Gaz. vol. 167; p. 642.
Lamp socket, Incandescent-electric-. J. K. Lux. No. 1,007,364; Oct. 31; Sp. p. 6180; Gaz. vol. 171; p. 1126.
Lamp socket, Incandescent-electric-. A. Weber. No. 1,009,120; Nov. 21; Sp. p. 3319; Gaz. vol. 172; p. 587.
Lamp socket, Incandescent-electric-. H. C. Wirt. No. 1,011,544; Dec. 12; Sp. p. 2577; Gaz. vol. 173; p. 436.
Lamp-socket, Plural. R. B. Benjamin. No. 1,007,419; Oct. 31; Sp. p. 6301; Gaz. vol. 171; p. 1146.
Lamp-socket, Resilient. N. and W. H. Weeks. No. 991,185; May 2; Sp. p. 760; Gaz. vol. 166; p. 129.
Lamp-socket switch. H. E. Reeve. No. 988,507; Apr. 4; Sp. p. 457; Gaz. vol. 165; p. 74.
Lamp-socket, Weatherproof plural. R. B. Benjamin. No. 981,241; Jan. 10; Sp. p. 2459; Gaz. vol. 162; p. 399.
Lamp-sockets, Adjustable casing for. E. H. Freeman. (Reissue.) No. 13,247; May 30; Sp. p. 7009; Gaz. vol. 166; p. 1258.
Lamp, Spirit-. C. F. Booth. No. 990,520; Apr. 25; Sp. p. 4858; Gaz. vol. 165; p. 847.
Lamp-stem-sealing machine, Incandescent-. M. E. Pierson. No. 1,004,071; Sept. 26; Sp. p. 4164; Gaz. vol. 170; p. 747.
Lamp, Street-. H. E. Streiber. No. 990,680; Apr. 25; Sp. p. 5212; Gaz. vol. 165; p. 900.
Lamp, Street gas-. S. F. Kraus. No. 1,003,615; Sept. 19; Sp. p. 3119; Gaz. vol. 170; p. 562.
Lamp-support and automatic timing mechanism. G. H. Rupley. No. 992,992; May 23; Sp. p. 4641; Gaz. vol. 166; p. 847.
Lamp support and reflector, Glow-. C. H. Sharp. No. 991,031; May 2; Sp. p. 426; Gaz. vol. 166; p. 73.
Lamp-support, Dirigible. F. Jackson. No. 983,234; Jan. 31; Sp. p. 6682; Gaz. vol. 162; p. 1160.
Lamp switches, Means for operating incandescent-. J. L. Moore and J. F. Alexander. No. 1,004,182; Sept. 26; Sp. p. 4441; Gaz. vol. 170; p. 785.
Lamp tester, Miner's-safety-. F. Benedetti and A. Stella. No. 1,004,348; Sept. 26; Sp. p. 4755; Gaz. vol. 170; p. 841.
Lamp, Therapeutic. M. W. Newton. No. 1,004,460; Sept. 26; Sp. p. 4995; Gaz. vol. 170; p. 879.
Lamp, Tilting. F. H. von Keller. No. 990,879; May 2; Sp. p. 115; Gaz. vol. 166; p. 21.
Lamp, Tungsten incandescent. J. J. O'Brien. No. 987,483; Mar. 21; Sp. p. 3645; Gaz. vol. 164; p. 649.
Lamp, Vacuum-tube. D. M. Moore. No. 986,304; Mar. 7; Sp. p. 1135; Gaz. vol. 164; p. 183.
Lamp, Vacuum-tube. D. M. Moore. No. 1,010,668; Dec. 5; Sp. p. 586; Gaz. vol. 173; p. 94.
Lamp, Vapor-. M. Newgold. No. 980,548; Jan. 3; Sp. p. 811; Gaz. vol. 162; p. 130.
Lamp, Vapor-. A. A. Warner. No. 993,925; May 30; Sp. p. 6618; Gaz. vol. 166; p. 1193.
Lamp, Vapor-. W. Hartley. No. 1,001,024; Aug. 22; Sp. p. 3958; Gaz. vol. 169; p. 727.
Lamp, Vapor-. E. Seitz. No. 1,004,478; Sept. 26; Sp. p. 5031; Gaz. vol. 170; p. 885.
Lamp, Vapor-. A. H. S. Swan. No. 1,008,389; Nov. 14; Sp. p. 1700; Gaz. vol. 172; p. 300.
Lamp, Vapor-. A. H. S. Swan. No. 1,010,462; Dec. 5; Sp. p. 126; Gaz. vol. 173; p. 23.
Lamp, Vapor electric. H. I. Wood. No. 1,006,333; Oct. 17; Sp. p. 3894; Gaz. vol. 171; p. 681.
Lamp, Vapor electric. H. I. Wood. No. 1,006,421; Oct. 17; Sp. p. 4080; Gaz. vol. 171; p. 711.
Lamp, Vapor electric. P. H. Thomas. No. 1,008,998; Nov. 14; Sp. p. 3055; Gaz. vol. 172; p 508.
Lamp, Vehicle-. W. J. Corcoran. No. 980,493; Jan. 3; Sp. p. 690; Gaz. vol. 162; p. 111.
Lamp, Vehicle-. W. C. Marshall. No. 1,008,045; Nov. 7; Sp. p. 859; Gaz. vol. 172; p. 137.
Lamp-wick-operating device. O. E. Miller No. 999,121; July 25; Sp. p. 5504; Gaz. vol. 168; p. 980.
Lamp with drawn-metal-wire filament, Incandescent. K. Farkas. No. 1,008,809; Nov. 14; Sp. p. 2661; Gaz. vol. 172; p. 447.
Lamp-working apparatus. T. C. Luce. No. 981,664; Jan. 17; Sp. p. 3325; Gaz. vol. 162; p. 565.
Lamps, Adjustable standard for portable. A. S. Lyhne. No. 1,012,383; Dec. 19; Sp. p. 4439; Gaz. vol. 173; p. 761.
Lamps and other articles, Bracket for supporting. G. W. Houk. No. 987,139; Mar. 21; Sp. p. 2883; Gaz. vol. 164; p. 530.
Lamps and the like, Combination-lock for electric. G. I. Silbert. No. 1,010,814; Dec. 5; Sp. p. 913; Gaz. vol. 173; p. 144.
Lamps, Apparatus for igniting miners' safety-. E. A. Hailwood. No. 990,859; May 2; Sp. p. 67; Gaz. vol. 166; p. 14.
Lamps, Apparatus for igniting miners' safety-. E. A. Hailwood. No. 993,362; May 30; Sp. p. 5430; Gaz. vol. 166; p. 1001.
Lamps, &c., Apparatus for testing miners' safety-. E. A. Hailwood. No. 990,860; May 2; Sp. p. 72; Gaz. vol. 166; p. 14.
Lamps, Automatically lighting and extinguishing gas and other. F. D. Page. No. 1,001,678; Aug. 29; Sp. p. 5295; Gaz. vol. 169; p. 978.
Lamps, Carbon-holder for arc-. W. N. Selig. No. 984,496; Feb. 14; Sp. p. 2679; Gaz. vol. 163; p. 450.
Lamps, Combined mantle-cap and burner-cone for incandescent vapor gas-. C. H. Smith. No. 988,902; Apr. 4; Sp. p. 1277; Gaz. vol. 165; p. 205.
Lamps, Controlling-valve for vapor-. A. H. S. Swan. No. 1,008,390; Nov. 14; Sp. p. 1704; Gaz. vol. 172; p. 300.
Lamps, Electromagnetic igniting device for arc-. C. von Dreger. No. 1,006,069; Oct. 17; Sp. p. 3285; Gaz. vol. 171; p. 587.
Lamps, Flue construction for signal-. R. E. Bruckner. No. 986,043; Mar. 7; Sp. p. 617; Gaz. vol. 164; p. 99.
Lamps, Gauze of miners' safety-. E. A. Hailwood. No. 986,461; Mar. 14; Sp. p. 1493; Gaz. vol. 164; p. 269.
Lamps, Illuminant for electrical incandescent. O. M. Thowless. No. 985,474; Feb. 28; Sp. p. 4825; Gaz. vol. 163; p. 857.
Lamps, Implement for manipulating and mounting filaments of electric incandescent. P. G. Triquet. No. 989,735; Apr. 18; Sp. p. 3094; Gaz. vol. 165; p. 544.
Lamps, Locking attachment for incandescent electric. A. F. W. Meyer. No. 991,872; May 9; Sp. p. 2224; Gaz. vol. 166; p. 397.
Lamps, Machine for forming loops for supporting filaments of electric. J. T. Fagan. No. 980,767; Jan. 3; Sp. p. 1259; Gaz. vol. 162; p. 202.
Lamps, Manufacturing glass. E. W. Bryce. No. 1,009,022; Nov. 14; Sp. p. 3111; Gaz. vol. 172; p. 517.
Lamps, Manufacturing metallic illuminating-bodies for electric incandescent. F. Blau. No. 985,387; Feb. 28; Sp. p. 4606; Gaz. vol. 163; p. 826.
Lamps, Means for eliminating the glare of. J. W. Dalman. No. 1,001,733; Aug. 29; Sp. p. 5410; Gaz. vol. 169; p. 997.
Lamps of automobiles, Adjusting mechanism for. R. H. Sphar and E. Ostermier. No. 999,129; July 25; Sp. p. 5526; Gaz. vol. 168; p. 982.
Lamps of automobiles, Adjusting mechanism for. A. J. Farrell. No. 1,005,626; Oct. 10; Sp. p. 2333; Gaz. vol. 171; p. 401.
Lamps, Pull-socket for incandescent electric. A. Weber, Sr. No. 984,053; Feb. 14; Sp. p. 1753; Gaz. vol. 163; p. 301.
Lamps, Removable generator for hydrocarbon-. M. Rockstead. No. 995,370; June 13; Sp. p. 2770; Gaz. vol. 167; p. 472.
Lamps, Vaporizer for incandescent liquid-fuel. F. J. H. Rustige. No. 1,005,320; Oct. 10; Sp. p. 1639; Gaz. vol. 171; p. 294.
Lamps with metal filaments, Supporting-frame for incandescent. L. Glaser. No. 1,011,771; Dec. 12; Sp. p. 3075; Gaz. vol. 173; p. 515.
Land and corn roller, Combined. I. F. Gordon and F. B. Niesz. No. 998,498; July 18; Sp. p. 4119; Gaz. vol. 168; p. 730.
Land-clearer. R. Ireland. No. 1,011,348; Dec. 12; Sp. p. 2150; Gaz. vol. 173; p. 367.
Land clearing and digging machine. C. A. Reeves. No. 987,016; Mar. 14; Sp. p. 2642; Gaz. vol. 164; p. 456.
Land-leveler. R. Dix. No. 992,117; May 9; Sp. p. 2711; Gaz. vol. 166; p. 479.
Land-roller. N. Durbin. No. 981,398; Jan. 10; Sp. p. 2785; Gaz. vol. 162; p. 453.
Land-roller. D. O. Martin. No. 981,446; Jan. 10; Sp. p. 2911; Gaz. vol. 162; p. 470.
Land-roller. D. W. McConnell. No. 991,466; May 2; Sp. p. 1364; Gaz. vol. 166; p. 226.
Land-roller. J. Brooks. No. 1,002,492; Sept. 5; Sp. p. 704; Gaz. vol. 170; p. 103.
Land-roller. J. Wissler. No. 1,004,719; Oct. 3; Sp. p. 377; Gaz. vol. 171; p. 62.
Land-roller. E. S. Wilder. No. 1,009,122; Nov. 21; Sp. p. 3325; Gaz. vol. 172; p. 588.
Land-roller, Compound. W. Wright. No. 1,011,001; Dec. 5; Sp. p. 1321; Gaz. vol. 173; p. 210.
Land-rollers, Steering device for. A. S. F. Robinson. No. 995,291; June 13; Sp. p. 2564; Gaz. vol. 167; p. 445.
Lantern. C. T. Whipple and H. A. Moody. No. 981,590; Jan. 10; Sp. p. 3181; Gaz. vol. 162; p. 519.
Lantern. C. Orgaard. No. 982,852; Jan. 31; Sp. p. 5868; Gaz. vol. 162; p. 1033.
Lantern. J. H. Hill. No. 983,281; Feb. 7; Sp. p. 51; Gaz. vol. 163; p. 10.
Lantern. A. L. Edwards. No. 990,715; Apr. 25; Sp. p. 5290; Gaz. vol. 165; p. 912.
Lantern. W. S. Hamm and F. A. Schuetz. No. 990,980; May 2; Sp. p. 323; Gaz. vol. 166; p. 56.
Lantern. A. R. Pritchard. No. 999,465; Aug. 1; Sp. p. 532; Gaz. vol. 169; p. 94.
Lantern. A. W. Paull. No. 1,000,341; Aug. 8; Sp. p. 2380; Gaz. vol. 169; p. 420.
Lantern. A. W. Paull. No 1,000,342; Aug. 8; Sp. p. 2381; Gaz. vol. 169; p. 420.
Lantern. A. R. Pritchard. No. 1,003,509; Sept. 19; Sp. p. 2874; Gaz. vol. 170; p. 524.
Lantern. A. R. Pritchard. No. 1,003,794; Sept. 19; Sp. p. 3503; Gaz. vol. 170; p. 623.

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Lantern. L. C. Ebrite. No. 1,004,637; Oct. 3; Sp. p. 189; Gaz. vol. 171; p. 33.
Lantern. C. P. Collins. No. 1,005,161; Oct. 10; Sp. p. 1257; Gaz. vol. 171; p. 234.
Lantern. W. S. Hamm. (Reissue.) No. 13,323; Nov. 28; Sp. p. 6046; Gaz. vol. 172; p. 1071.
Lantern. C. O. Harrington. No. 1,011,779; Dec. 12; Sp. p. 3094; Gaz. vol. 173; p. 518.
Lantern attachment. A. R. Pritchard. No. 983,567; Feb. 7; Sp. p. 687; Gaz. vol. 163; p. 106.
Lantern bail-bearing. A. R. Pritchard. No. 990,389; Apr. 25; Sp. p. 4537; Gaz. vol. 165; p. 801.
Lantern-bracket. R. H. Blair, Sr. No. 982,762; Jan. 24; Sp. p. 5673; Gaz. vol. 162; p. 972.
Lantern, Electric. T. M. Jenks and A. W. Knutson. No. 998,849; July 25; Sp. p. 4922; Gaz. vol. 168; p. 885.
Lantern-frame. R. J. Kelly. No. 1,007,115; Oct. 31; Sp. p. 5646; Gaz. vol. 171; p. 1037.
Lantern-frame. W. S. Hamm. No. 1,008,459; Nov. 14; Sp. p. 1900; Gaz. vol. 172; p. 325.
Lantern-frame, Tubular. C. T. Whipple. No. 994,624; June 6; Sp. p. 1079; Gaz. vol. 167; p. 180.
Lantern-globe guard. A. R. Pritchard. No. 981,879; Jan. 17; Sp. p. 3787; Gaz. vol. 162; p. 640.
Lantern-globe lifter. J. H. Hill. No. 990,048; Apr. 18; Sp. p. 3766; Gaz. vol. 165; p. 651.
Lantern-globe lifter. W. C. Embury. No. 992,411; May 16; Sp. p. 3414; Gaz. vol. 166; p. 615.
Lantern-globe-lifting device. W. T. and F. A. Iddings. No. 982,181; Jan. 17; Sp. p. 4436; Gaz. vol. 162; p. 743.
Lantern-holder. A. G. Moore. No. 980,816; Jan. 3; Sp. p. 1362; Gaz. vol. 162; p. 218.
Lantern-holder. H. Waldschmidt. No. 991,914; May 9; Sp. p. 2314; Gaz. vol. 166; p. 412.
Lantern, Magic. A. Paoli. No. 1,002,078; Aug. 29; Sp. p. 6147; Gaz. vol. 169; p. 1111.
Lantern, Pilot signal-. A. W. Johnson. No. 993,171; May 23; Sp. p. 5021; Gaz. vol. 166; p. 907.
Lantern, Reserve emergency-. W. H. Adams. No. 991,044; May 2; Sp. p. 450; Gaz. vol. 166; p. 78.
Lantern, Signal-. C. A. Thompson and D. Pierce. No. 994,890; June 13; Sp. p. 1769; Gaz. vol. 167; p. 312.
Lantern, Signal-. C. C. Wakefield. No. 999,921; Aug. 8; Sp. p. 1461; Gaz. vol. 169; p. 277.
Lantern-slide-moving device. J. Leopold. No. 1,001,965; Aug. 29; Sp. p. 5935; Gaz. vol. 169; p. 1075.
Lantern-slide, Spot-light song and lecture. F. A. Apfelbaum. No. 1,010,214; Nov. 28; Sp. p. 5635; Gaz. vol. 172; p. 1008.
Lantern, Tubular. C. T. Whipple, H. A. Moody, and F. M. Stevens. No. 981,589; Jan. 10; Sp. p. 3179; Gaz. vol. 162; p. 518.
Lantern, Tubular. C. T. Whipple and H. A. Moody. No. 983,790; Feb. 7; Sp. p. 1136; Gaz. vol. 163; p. 182.
Lantern, Tubular. A. R. Pritchard. No. 989,048; Apr. 11; Sp. p. 1587; Gaz. vol. 165; p. 278.
Lantern, Tubular. A. R. Pritchard. No. 992,982; May 23; Sp. p. 4623; Gaz. vol. 166; p. 844.
Lanterns, Bail-bearing for. A. R. Pritchard. No. 989,800; Apr. 18; Sp. p. 3244; Gaz. vol. 165; p. 567.
Lanterns, Bail-bearing for. A. R. Pritchard. No. 992,984; May 23; Sp. p. 4625; Gaz. vol. 166; p. 844.
Lanterns, Substitute light for automobile-. W. C. Blundon and V. H. Esch. No. 988,434; Apr. 4; Sp. p. 309; Gaz. vol. 165; p. 51.
Lanterns, Wick-raising device for. R. J. Kelly. No. 996,488; June 27; Sp. p. 5261; Gaz. vol. 167; p. 922.
Lap-link. W. J. Roach. No. 1,006,131; Oct. 17; Sp. p. 3429; Gaz. vol. 171; p. 609.
Lap-ring or open ring. J. Blalack. No. 1,012,318; Dec. 19; Sp. p. 4310; Gaz. vol. 173; p. 739.
Lap-robe attachment. W. Hendrickson. No. 991,985; May 9; Sp. p. 2455; Gaz. vol. 166; p. 436.
Lard and the like, Machine for cutting. U. S. Sjöstrand and H. A. Petterson. No. 1,008,208; Nov. 7; Sp. p. 1202; Gaz. vol. 172; p. 197.
Lard, Apparatus for the manufacture of compound. W. Mattheiss. No. 993,784; May 30; Sp. p. 6361; Gaz. vol. 166; p. 1147.
Lard, Manufacture of compound. W. Mattheiss. No. 980,809; Jan. 3; Sp. p. 1348; Gaz. vol. 162; p. 216.
Last. H. F. Loewer. No. 982,838; Jan. 31; Sp. p. 5835; Gaz. vol. 162; p. 1027.
Last. C. F. Partridge. No. 992,045; May 9; Sp. p. 2561; Gaz. vol. 166; p. 455.
Last. J. A. Brogan. No. 993,502; May 30; Sp. p. 5737; Gaz. vol. 166; p. 1048.
Last. H. Thomson. No. 993,911; May 30; Sp. p. 6597; Gaz. vol. 166; p. 1189.
Last. A. W. Redin. No. 999,872; Aug. 8; Sp. p. 1346; Gaz. vol. 169; p. 260.
Last. A. M. Leighton. No. 1,000,419; Aug. 15; Sp. p. 2579; Gaz. vol. 169; p. 480.
Last. E. W. Gerrish. No. 1,007,091; Oct. 31; Sp. p. 5588; Gaz. vol. 171; p. 1027.
Last. E. W. Gerrish. No. 1,007,092; Oct. 31; Sp. p. 5591; Gaz. vol. 171; p. 1028.
Last. H. Waters. No. 1,010,546; Dec. 5; Sp. p. 316; Gaz. vol. 173; p. 51.
Last, Automatically-locking. E. O. and W. A. Krentler. No. 999,504; Aug. 1; Sp. p. 610; Gaz. vol. 169; p. 106.
Last-forms for upper-patterns for boots or shoes, Blank for. A. E. Whitelaw. No. 986,884; Mar. 14; Sp. p. 2402; Gaz. vol. 164; p. 415.
Last, Interchangeable shoe-. T. Griffin. No. 988,769; Apr. 4; Sp. p. 1033; Gaz. vol. 165; p. 165.
Last lock, Collapsible-. F. J. Shainsey, Sr. No. 1,006,137; Oct. 17; Sp. p. 3442; Gaz. vol. 171; p. 611
Last, Repairing and stretching. J. Heuyard. No. 999,306; Aug. 1; Sp. p. 217; Gaz. vol. 169; p. 41.
Last, Shoe-. E. M. Holbrook. No. 999,788; Aug. 8; Sp. p. 1177; Gaz. vol. 169; p. 232.
Last, Shoe-. E. W. Durkee. No. 1,003,888; Sept. 19; Sp. p. 3682; Gaz. vol. 170; p. 665.
Last-support. O. Ashton. No. 1,000,660; Aug. 15; Sp. p. 3127; Gaz. vol. 169; p. 566.
Last-support and last-unlocking device, Combined. G. G. Schelter. No. 983,936; Feb. 14; Sp. p. 1485; Gaz. vol. 163; p. 262.
Last-tube support. O. Heath. No. 999,783; Aug. 8; Sp. p. 1171; Gaz. vol. 169; p. 231.
Lasts, Machine for working uppers over. R. F. McFeely. No. 988,582; Apr. 4; Sp. p. 632; Gaz. vol. 165; p. 102.
Lasts or last parts, Forming. E. J. Prindle. No. 993,405; May 30; Sp. p. 5515; Gaz. vol. 166; p. 1016.
Lasts, Turning. E. J. Prindle. No. 996,673; July 4; Sp. p. 156; Gaz. vol. 168; p. 28.
Lasting and tacking machine. A. Bates. No. 1,007,051; Oct. 31; Sp. p. 5479; Gaz. vol. 171; p. 1014.
Lasting apparatus. W. B. Keighley. No. 982,140; Jan. 17; Sp. p. 4363; Gaz. vol. 162; p. 729.
Lasting button-boots. C. Tweedie. No. 984,868; Feb. 21; Sp. p. 3489; Gaz. vol. 163; p. 616.
Lasting-machine. L. C. Colt. No. 996,702; July 4; Sp. p. 214; Gaz. vol. 168; p. 37.
Lasting-machine. S. W. Ladd and E. A. Stiggins. No. 999,233; Aug. 1; Sp. p. 78; Gaz. vol. 169; p. 16.
Lasting-machine. A. L. Russell. No. 1,001,081; Aug. 22; Sp. p. 4081; Gaz. vol. 169; p. 748.
Lasting-machine. A. Bates. No. 1,002,358; Sept. 5; Sp. p. 415; Gaz. vol. 170; p. 59.
Lasting-machine. A. Bates. No. 1,002,359; Sept. 5; Sp. p. 427; Gaz. vol. 170; p. 59.
Lasting-machine. S. Snow. (Reissue.) No. 13,292; Sept. 19; Sp. p. 3899; Gaz. vol. 170; p. 685.
Lasting-machine. E. L. Keyes. No. 1,004,659; Oct. 3; Sp. p. 229; Gaz. vol. 171; p. 40.
Lasting-machine. W. A. Bond. No. 1,005,929; Oct. 17; Sp. p. 2989; Gaz. vol. 171; p. 540.
Lasting-machine. J. F. Reid. No. 1,006,006; Oct. 17; Sp. p. 3146; Gaz. vol. 171; p. 565.
Lasting-machine. C. De Minico. No. 1,009,054; Nov. 21; Sp. p. 3181; Gaz. vol. 172; p. 564.
Lasting-machine. C. F. Pym. No. 1,010,394; Nov. 28; Sp. p. 6013; Gaz. vol. 172; p. 1067.
Lasting-machine. C. F. Pym. No. 1,010,800; Dec. 5; Sp. p. 889; Gaz. vol. 173; p. 140.
Lasting-machine. J. J. Doidge. No. 1,012,996; Dec. 26; Sp. p. 5799; Gaz. vol. 173; p. 1015.
Lasting machine, Boot and shoe. J. E. Jackson. No. 985,348; Feb. 28; Sp. p. 4529; Gaz. vol. 163; p. 813.
Lasting machine, Boot and shoe. J. E. Jackson. No. 1,011,062; Dec. 5; Sp. p. 1442; Gaz. vol. 173; p. 229.
Lasting-machine gripper. S. W. Ladd and E. A. Stiggins. No. 1,005,234; Oct. 10; Sp. p. 1427; Gaz. vol. 171; p. 261.
Lasting-machine pincer-actuating mechanism. F. E. Drown. No. 1,009,288; Nov. 21; Sp. p. 3719; Gaz. vol. 172; p. 647.
Lasting machine, Shoe-. J. H. Deziel. No. 997,652; July 11; Sp. p. 2205; Gaz. vol. 168; p. 390.
Lasting-machine wiper. J. J. Doidge. No. 1,012,997; Dec. 26; Sp. p. 5804; Gaz. vol. 173; p. 1015.
Lasting mechanism. M. Brock. No. 1,002,818; Sept. 12; Sp. p. 1404; Gaz. vol. 170; p. 251.
Lasting-pincers. P. A. Coupal. No. 1,009,478; Nov. 21; Sp. p. 4152; Gaz. vol. 172; p. 715.
Latch. A. E. Grochau. No. 980,413; Jan. 3; Sp. p. 481; Gaz. vol. 162; p. 83.
Latch. D. W. Tower. No. 980,458; Jan. 3; Sp. p. 602; Gaz. vol. 162; p. 99.
Latch. D. C. Good. No. 982,226; Jan. 17; Sp. p. 4533; Gaz. vol. 162; p. 759.
Latch. G. G. Frederick. No. 983,432; Feb. 7; Sp. p. 369; Gaz. vol. 163; p. 61.
Latch. L. Romines. No. 983,647; Feb. 7; Sp. p. 841; Gaz. vol. 163; p. 134.
Latch. C. L. Dickert and C. W. Rice. No. 991,959; May 9; Sp. p. 2403; Gaz. vol. 166; p. 427.
Latch. F. L. Repass. No. 994,789; June 13; Sp. p. 1510; Gaz. vol. 167; p. 278.
Latch. E. B. Gifford. No. 995,860; June 20; Sp. p. 3873; Gaz. vol. 167; p. 673.
Latch. P. S. Peterson. No. 996,792; July 4; Sp. p. 385; Gaz. vol. 168; p. 65.
Latch. E. A. F. Carson. No. 997,490; July 11; Sp. p. 1847; Gaz. vol. 168; p. 333.
Latch. G. A. Klein and N. B. Piersall. No. 997,832; July 11; Sp. p. 2635; Gaz. vol. 168; p. 453.
Latch. J. E. Brooker. No. 1,002,130; Aug. 29; Sp. p. 6242; Gaz. vol. 169; p. 1128.

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Latch and lock. G. E. Clawson. No. 996,977; July 4; Sp. p. 811; Gaz. vol. 168; p. 130.
Latch and lock, Door. L. C. Campbell. No. 987,955; Mar. 28; Sp. p. 4703; Gaz. vol. 164; p. 840.
Latch attachment, Door-. A. W. Upton. No. 987,271; Mar. 21; Sp. p. 3202; Gaz. vol. 164; p. 578.
Latch, Automatic gate-. W. R. Wallingsford. No. 1,006,609; Oct. 24; Sp. p. 4541; Gaz. vol. 171; p. 809.
Latch, Barn-door. W. F. Connolly. No. 985,727; Feb. 28; Sp. p. 5389; Gaz. vol. 163; p. 944.
Latch, Car-door. C. Weber. No. 1,009,001; Nov. 14; Sp. p. 3067; Gaz. vol. 172; p. 509.
Latch, Door-. J. D. Wilcox. No. 980,379; Jan. 3; Sp. p. 409; Gaz. vol. 162; p. 71.
Latch, Door-. W. Morgan. No. 980,663; Jan. 3; Sp. p. 1062; Gaz. vol. 162; p. 168.
Latch, Door-. V. C. Mieher. No. 985,617; Feb. 28; Sp. p. 5128; Gaz. vol. 163; p. 907.
Latch, Door-. S. Skowronski. No. 987,021; Mar. 14; Sp. p. 2650; Gaz. vol. 164; p. 458.
Latch, Door-. J. J. Murphy. No. 993,788; May 30; Sp. p. 6369; Gaz. vol. 166; p. 1148.
Latch, Door-. A. Tremblay. No. 994,800; June 13; Sp. p. 1529; Gaz. vol. 167; p. 281.
Latch, Door-. F. J. Lee. No. 996,098; June 27; Sp. p. 4355; Gaz. vol. 167; p. 788.
Latch, Door-. D. E. Shrauger. No. 998,592; July 18; Sp. p. 4323; Gaz. vol. 168; p. 764.
Latch, Door-. J. P. Imig. No. 1,012,256; Dec. 19; Sp. p. 4183; Gaz. vol. 173; p. 718.
Latch, Elevator-door. C. M. Peelle. No. 1,007,043; Oct. 24; Sp. p. 5462; Gaz. vol. 171; p. 957.
Latch, Emergency safety-door. W. S. Rogers. No. 1,010,689; Dec. 5; Sp. p. 630; Gaz. vol. 173; p. 101.
Latch for doors and other places. B. R. Crampton. No. 988,313; Apr. 4; Sp. p. 33; Gaz. vol. 165; p. 8.
Latch for silos, Door-. K. J. Bell. No. 993,289; May 23; Sp. p. 5251; Gaz. vol. 166; p. 942.
Latch for sliding doors, Gravity-. E. Desjardins. No. 1,000,500; Aug. 15; Sp. p. 2748; Gaz. vol. 169; p. 508.
Latch, Freight-car-door. C. F. Tifft and N. B. Shelly. No. 991,394; May 2; Sp. p. 1214; Gaz. vol. 166; p. 202.
Latch, Gate-. E. B. Gibbs. No. 985,157; Feb. 28; Sp. p. 4107; Gaz. vol. 163; p. 748.
Latch, Gate-. J. D. Anderson. No. 988,427; Apr. 4; Sp. p. 291; Gaz. vol. 165; p. 48.
Latch, Gate-. R. W. Gee. No. 988,455; Apr. 4; Sp. p. 352; Gaz. vol. 165; p. 57.
Latch, Gate-. H. G. Schenck. No. 989,649; Apr. 18; Sp. p. 2917; Gaz. vol. 165; p. 514.
Latch, Gate-. J. H. Akins. No. 990,511; Apr. 25; Sp. p. 4844; Gaz. vol. 165; p. 844.
Latch, Gate-. J. J. Warns. No. 991,119; May 2; Sp. p. 620; Gaz. vol. 166; p. 106.
Latch, Gate-. L. M. Lawrence. No. 991,793; May 9; Sp. p. 2053; Gaz. vol. 166; p. 370.
Latch, Gate-. J. C. Smith. No. 997,335; July 11; Sp. p. 1561; Gaz. vol. 168; p. 283.
Latch, Gate-. E. C. Dickinson. No. 1,002,044; Aug. 29; Sp. p. 6094; Gaz. vol. 169; p. 1101.
Latch, Gate-. R. L. Tullis. No. 1,008,220; Nov. 7; Sp. p. 1237; Gaz. vol. 172; p. 202.
Latch, Lever-. G. F. Danielson. No. 1,001,125; Aug. 22; Sp. p. 4172; Gaz. vol. 169; p. 763.
Latch-lock. D. W. Tower. No. 987,190; Mar. 21; Sp. p. 3025; Gaz. vol. 164; p. 548.
Latch-lock. D. W. Tower. (Reissue.) No. 13,275; July 18; Sp. p. 4331; Gaz. vol. 168; p. 766.
Latch-lock, Automatic latch-and-knob-locking. W. H. Thomas. No. 995,640; June 20; Sp. p. 3382; Gaz. vol. 167; p. 596.
Latch mechanism. P. Riecke. No. 980,337; Jan. 3; Sp. p. 312; Gaz. vol. 162; p. 56.
Latch mechanism. E. L. Ackerman. No. 992,530; May 16; Sp. p. 3656; Gaz. vol. 166; p. 656.
Latch-operating mechanism, Pneumatic door-. J. Angerstein and W. Bürgerhausen. No. 990,213; Apr. 25; Sp. p. 4115; Gaz. vol. 165; p. 737.
Latch, Sliding-door. G. M. Opheim. No. 988,806; Apr. 4; Sp. p. 1102; Gaz. vol. 165; p. 176.
Latch, Sliding-door. J. A. Giese. No. 1,003,896; Sept. 19; Sp. p. 3694; Gaz. vol. 170; p. 657.
Latch, Spring-. H. B. Roeber. No. 1,011,854; Dec. 12; Sp. p. 3270; Gaz. vol. 173; p. 543.
Latch strike-plate, Spring-. H. G. Voight. No. 1,003,219; Sept. 12; Sp. p. 2276; Gaz. vol. 170; p. 391.
Latch strike-plate, Spring-. H. G. Voight. No. 1,004,716; Oct. 3; Sp. p. 373; Gaz. vol. 171; p. 61.
Latch, Swinging. O. T. Belsvig. No. 1,006,347; Oct. 17; Sp. p. 3924; Gaz. vol. 171; p. 685.
Latch, Window-. G. Erz. No. 986,152; Mar. 7; Sp. p. 818; Gaz. vol. 164; p. 133.
Lath-attaching device. T. H. Kane. No. 997,558; July 11; Sp. p. 1987; Gaz. vol. 168; p. 355.
Lath-bundler. M. L. Peterman. No. 987,740; Mar. 28; Sp. p. 4188; Gaz. vol. 164; p. 764.
Lath-holder. W. R. Hunter. No. 992,666; May 16; Sp. p. 3932; Gaz. vol. 166; p. 701.
Lath-stripper. M. L. Peterman. No. 1,007,308; Oct. 31; Sp. p. 6062; Gaz. vol. 171; p. 1106.
Lathe. R. K. Le Blond and W. F. Groene. No. 980,971; Jan. 10; Sp. p. 1816; Gaz. vol. 162; p. 303.
Lathe. N. D. Chard. No. 982,034; Jan. 17; Sp. p. 4161; Gaz. vol. 162; p. 694.
Lathe. F. H. Berold. No. 992,843; May 23; Sp. p. 4308; Gaz. vol. 166; p. 794.
Lathe. N. D. Chard. No. 999,629; Aug. 1; Sp. p. 848; Gaz. vol. 169; p. 148.
Lathe. G. J. Costello. No. 999,701; Aug. 1; Sp. p. 988; Gaz. vol. 169; p. 173.
Lathe. W. L. Schellenbach. No. 1,000,442; Aug. 15; Sp. p. 2619; Gaz. vol. 169; p. 488.
Lathe. J. F. Webendorfer. No. 1,000,764; Aug. 15; Sp. p. 3336; Gaz. vol. 169; p. 602.
Lathe. O. W. Schaum. No. 1,001,993; Aug. 29; Sp. p. 5994; Gaz. vol. 169; p. 1085.
Lathe. G. A. Spinner. No. 1,002,327; Sept. 5; Sp. p. 331; Gaz. vol. 170; p. 46.
Lathe. L. Blugok. No. 1,005,504; Oct. 10; Sp. p. 2034; Gaz. vol. 171; p. 357.
Lathe. A. Christensen. No. 1,007,065; Oct. 31; Sp. p. 5516; Gaz. vol. 171; p. 1019.
Lathe. N. D. Chard. No. 1,007,181; Oct. 31; Sp. p. 5813; Gaz. vol. 171; p. 1061.
Lathe. N. D. Chard. No. 1,007,182; Oct. 31; Sp. p. 5816; Gaz. vol. 171; p. 1062.
Lathe. A. Klehe and A. Müller. No. 1,008,919; Nov. 14; Sp. p. 2870; Gaz. vol. 172; p. 482.
Lathe attachment. T. Tattershall. No. 998,656; July 25; Sp. p. 4481; Gaz. vol. 168; p. 818.
Lathe attachment. J. Schultze. No. 998,718; July 25; Sp. p. 4622; Gaz. vol. 168; p. 840.
Lathe attachment. G. H. Nichols. No. 999,671; Aug. 1; Sp. p. 936; Gaz. vol. 169; p. 164.
Lathe attachment. W. D. Johnston and M. J. O'Leary. No. 1,012,362; Dec. 19; Sp. p. 4403; Gaz. vol. 173; p. 754.
Lathe attachment. A. M. Roberts. No. 1,012,445; Dec. 19; Sp. p. 4559; Gaz. vol. 173; p. 780.
Lathe attachment, Turret-. J. E. Windle. No. 1,001,109; Aug. 22; Sp. p. 4141; Gaz. vol. 169; p. 758.
Lathe, Bobbin-. R. G. Smith. No. 1,008,747; Nov. 14; Sp. p. 2527; Gaz. vol. 172; p. 426.
Lathe, Car-wheel. A. Gottschalk. No. 1,010,616; Dec. 5; Sp. p. 483; Gaz. vol. 173; p. 75.
Lathe-carriage. G. A. Steinle. No. 990,504; Apr. 25; Sp. p. 4826; Gaz. vol. 165; p. 842.
Lathe-centering device, Mechanic's. C. E. Jack. No. 1,000,914; Aug. 15; Sp. p. 3649; Gaz. vol. 169; p. 655.
Lathe diameter-gage. W. Lodge. No. 985,041; Feb. 21; Sp. p. 3823; Gaz. vol. 163; p. 675.
Lathe-dog. A. C. Niemann. No. 1,000,356; Aug. 8; Sp. p. 2417; Gaz. vol. 169; p. 425.
Lathe, Engine-. N. D. Chard. No. 981,915; Jan. 17; Sp. p. 3894; Gaz. vol. 162; p. 654.
Lathe for producing turned, spun, or chased articles of regular or irregular form. J. Lichtl. No. 988,118; Mar. 28; Sp. p. 5040; Gaz. vol. 164; p. 894.
Lathe-gearing. F. K. Hendrickson. No. 984,370; Feb. 14; Sp. p. 2417; Gaz. vol. 163; p. 409.
Lathe, Metal-spinning. F. A. Schulz. No. 987,405; Mar. 21; Sp. p. 3486; Gaz. vol. 164; p. 623.
Lathe, Multiple-spindle automatic. O. A. Smith. No. 992,277; May 16; Sp. p. 3106; Gaz. vol. 166; p. 566.
Lathe, Multiple turret-. O. Crell. No. 999,435; Aug. 1; Sp. p. 480; Gaz. vol. 169; p. 84.
Lathe relieving attachment. R. K. Le Blond and W. F. Groene. No. 980,975; Jan. 10; Sp. p. 1825; Gaz. vol. 162; p. 304.
Lathe-tool. A. H. Ihsen. No. 987,233; Mar. 21; Sp. p. 3112; Gaz. vol. 164; p. 564.
Lathe-tool holder. J. A. F. Lindgren. No. 997,568; July 11; Sp. p. 2010; Gaz. vol. 168; p. 359.
Lathe tool-holder. J. G. Baker. No. 1,011,144; Dec. 12; Sp. p. 1668; Gaz. vol. 173; p. 294.
Lathe tool-holder. J. G. Baker. No. 1,011,716; Dec. 12; Sp. p. 2962; Gaz. vol. 173; p. 495.
Lathe-tool-operating mechanism. J. C. Potter and J. Johnston. No. 1,007,141; Oct. 31; Sp. p. 5711; Gaz. vol. 171; p. 1047.
Lathe, Turret-. J. C. Potter and J. Johnston. No. 991,886; May 9; Sp. p. 2259; Gaz. vol. 166; p. 403.
Lathe, Turret-. B. M. W. Hanson. No. 1,000,515; Aug. 15; Sp. p. 2775; Gaz. vol. 169; p. 513.
Lathe, Veneer-. A. W. and J. B. Dodge. No. 1,012,995; Dec. 26; Sp. p. 5798; Gaz. vol. 173; p. 1014.
Lathe work-centering device. R. H. Fay. No. 994,581; June 6; Sp. p. 997; Gaz. vol. 167; p. 166.
Lathes and the like, Device for feeding material in turret-. C. Munthe and D. Millington. No. 998,377; July 18; Sp. p. 3888; Gaz. vol. 168; p. 690.
Lathes, Clamping mechanism for multiple-spindle. D. Millington and C. Munthe. No. 998,371; July 18; Sp. p. 3876; Gaz. vol. 168; p. 688.
Lathes, Holdback and face-plate dog for. M. B. Hill. No. 995,003; June 13; Sp. p. 2002; Gaz. vol. 167; p. 350.

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Lathes, Mechanism for actuating the tool-slides of turret-. D. Millington and C. Munthe. No. 1,005,652; Oct. 10; Sp. p. 2393; Gaz. vol. 171; p. 410.
Lathes, Steady-rest for shafting-. W. J. Muncaster. No. 984,288; Feb. 14; Sp. p. 2260; Gaz. vol. 163; p. 382.
Latrine. F. W. Peterson and C. A. Dukes. No. 1,012,907; Dec. 26; Sp. p. 5585; Gaz. vol. 173; p. 985.
Launder. J. E. Hughes. No. 1,008,153; Nov. 7; Sp. p 1076; Gaz. vol. 172; p. 176.
Laundry apparatus. J. L. Atwater. No. 993,012; May 23; Sp. p. 4685; Gaz. vol. 166; p. 854.
Laundry-drier. J. H. Rivers. No. 1,011,374; Dec. 12; Sp. p. 2198; Gaz. vol. 173; p. 374.
Laundry-machine gearing. A. E. Readwin. No. 1,002,450; Sept. 5; Sp. p. 612; Gaz. vol. 170; p. 88.
Laundry-marker. J. D. Caldwell. No. 991,132; May 2; Sp. p. 642; Gaz. vol. 166; p. 110.
Laundry-marking machine. H. Higgin. No. 980,416; Jan. 3; Sp. p. 486; Gaz. vol. 162; p. 84.
Laundry-net clamp. A. Tutton. No. 985,714; Feb. 28; Sp. p. 5362; Gaz. vol. 163; p. 939.
Laundry pressing-machine. C. A. Smith. No. 1,010,696; Dec. 5; Sp. p. 649; Gaz. vol. 173; p. 104.
Laundry pressing-machine. C. A. Smith. No. 1,010,697; Dec. 5; Sp. p. 653; Gaz. vol. 173; p. 104.
Laundry-shaper. W. A. Zeidler. No. 986,959; Mar. 14; Sp. p. 2540; Gaz. vol. 164; p. 439.
Laundrying. A. B. Tozer. No. 998,935; July 25; Sp. p. 5115; Gaz. vol. 168; p. 917.
Laundrying-machine. A. B. Tozer. No. 1,002,473; Sept. 5; Sp. p. 662; Gaz. vol. 170; p. 96.
Lavatories and the like, Manufacture of. R. E. Crane. No. 1,001,622; Aug. 29; Sp. p. 5168; Gaz. vol. 169; p. 958.
Lavatories, &c., Support for. W. H. Dettelbach. No. 1,010,729; Dec. 5; Sp. p. 731; Gaz. vol. 173; p. 116.
Lavatory. J. W. Sharp, Jr. No. 989,816; Apr. 18; Sp. p. 3277; Gaz. vol. 165; p. 572.
Lavatory. H. M. Weaver. No. 1,012,041; Dec. 19; Sp. p. 3704; Gaz. vol. 173; p. 645.
Lavatory attachment. A. J. Podmore. No. 981,877; Jan. 17; Sp. p. 3784; Gaz. vol. 162; p. 639.
Lavatory, Enameled-iron. A. S. Hamlin. No. 995,671; June 20; Sp. p. 3443; Gaz. vol. 167; p. 607.
Lavatory-fixture. J. H. Johnson. No. 1,000,735; Aug. 15; Sp. p. 3280; Gaz. vol. 169; p. 593.
Lavatory-fixture. E. G. Watrous. No. 1,006,610; Oct. 24; Sp. p. 4542; Gaz. vol. 171; p. 810.
Lawn and street cleaning device. J. A. Humm. No. 998,517; July 18; Sp. p. 4164; Gaz. vol. 168; p. 737.
Lawn-chair and couch, Combination. S. A. Ott. No. 992,382; May 16; Sp. p. 3358; Gaz. vol. 166; p. 604.
Lawn-cleaner. C. H. Mosher. No. 998,544; July 18; Sp. p. 4208; Gaz. vol. 168; p. 745.
Lawn-edge trimmer. C. Karass. No. 1,006,758; Oct. 24; Sp. p. 4834; Gaz. vol. 171; p. 859.
Lawn-edger. F. J. Vondracek. No. 998,055; July 18; Sp. p. 3152; Gaz. vol. 168; p. 573.
Lawn-edger. J. C. Lindsey. No. 1,000,028; Aug. 8; Sp. p. 1677; Gaz. vol. 169; p. 314.
Lawn-sprinkler. H. Gibbs. No. 985,522; Feb. 28; Sp. p. 4938; Gaz. vol. 163; p. 874.
Lawn-sprinkler. G. F. Nilsson. No. 986,201; Mar. 7; Sp. p. 925; Gaz. vol. 164; p. 150.
Lawn-sprinkler. L. R. Nelson. No. 1,007,658; Oct. 31; Sp. p. 6825; Gaz. vol. 171; p. 1227.
Lawn-sprinkler. A. Martin. No. 1,009,540; Nov. 21; Sp. p. 4273; Gaz. vol. 172; p. 736.
Lawn-sprinkler. J. B. Fellows. No. 1,011,934; Dec. 19; Sp. p. 3462; Gaz. vol. 173; p. 606.
Lawn-sprinkling system. L. D. Barney. No. 1,004,726; Oct. 3; Sp. p. 390; Gaz. vol. 171; p. 65.
Lawn-trimmer. A. L. Champion. No. 987,552; Mar. 21; Sp. p. 3758; Gaz. vol. 164; p. 671.
Lawn-trimmer. G. Volnagel. No. 999,135; July 25; Sp. p. 5535; Gaz. vol. 168; p. 984.
Lawn-trimming attachment. W. E. Hill. No. 1,010,260; Nov. 28; Sp. p. 5720; Gaz. vol. 172; p. 1023.
Layer-loop. J. P. Heiser. No. 993,249; May 23; Sp. p. 5177; Gaz. vol. 166; p. 930.
Lead and apparatus therefor, Continuous process of making white. C. Ellis. No. 1,002,246; Sept. 5; Sp. p. 130; Gaz. vol. 170; p. 16.
Lead and lead alloys, Refining. L. E. Wemple. No. 1,006,323; Oct. 17; Sp. p. 3872; Gaz. vol. 171; p. 677.
Lead chlorid, Making. E. O. Barstow. No. 984,525; Feb. 21; Sp. p. 2774; Gaz. vol. 163; p. 496.
Lead corroding-pot and buckle, Combined. A. J. Meier. No. 982,285; Jan. 24; Sp. p. 4687; Gaz. vol. 162; p. 810.
Lead, Making white. E. Euston. No. 1,002,380; Sept. 5; Sp. p. 466; Gaz. vol. 170; p. 66.
Lead, Manufacture of red. G. V. Barton. No. 988,964; Apr. 11; Sp. p. 1408; Gaz. vol. 165; p. 249.
Lead, Manufacture of red. W. Eckford. No. 1,010,356; Nov. 28; Sp. p. 5926; Gaz. vol. 172; p. 1055.
Lead, Manufacture of white. L. Falk. No. 999,637; Aug. 1; Sp. p. 865; Gaz. vol. 169; p. 151.
Lead oxid and white lead, Manufacture of. G. V. Barton. No. 988,963; Apr. 11; Sp. p. 1407; Gaz. vol. 165; p. 249.
Lead pigment and making. A. S. Ramage. No. 991,088; May 2; Sp. p. 541; Gaz. vol. 166; p. 93.
Lead pigment and making the same. A. S. Ramage. No. 982,992; Jan. 31; Sp. p. 6187; Gaz. vol. 162; p. 1079.
Lead, Refining and desilverizing. G. P. Hulst. No. 1,001,525; Aug. 22; Sp. p. 4951; Gaz. vol. 169; p. 895.
Lead salts, Making. L. S. Hughes. No. 1,008,412; Nov. 14; Sp. p. 1771; Gaz. vol. 172; p. 308.
Lead stack, White-. A. J. Meier. No. 996,041; June 20; Sp. p. 4229; Gaz. vol. 167; p. 735.
Leaf device, Loose-. H. M. Sturgis. No. 1,011,391; Dec. 12; Sp. p. 2231; Gaz. vol. 173; p. 380.
Leaf holder, Loose-. W. G. Baldwin. No. 988,686; Apr. 4; Sp. p. 845; Gaz. vol. 165; p. 136.
Leaf holder, Loose-. A. Schober. No. 991,753; May 9; Sp. p. 1983; Gaz. vol. 166; p. 356.
Leaf-like sheets and making the same, Thin. C. J. Healy. No. 990,261; Apr. 25; Sp. p. 4232; Gaz. vol. 165; p. 755.
Leaf-turning device. L. Valenza. No. 1,008,092; Nov. 7; Sp. p. 953; Gaz. vol. 172; p. 153.
Leak-detector. J. Boekel. No. 989,691; Apr. 18; Sp. p. 3004; Gaz. vol. 165; p. 529.
Leaks, Composition for stopping. J. M. Johnson. No. 981,429; Jan. 10; Sp. p. 2882; Gaz. vol. 162; p. 465.
Leather, Apparatus for cementing flat pieces of. A. Thoma. No. 1,005,486; Oct. 10; Sp. p. 1993; Gaz. vol. 171; p. 351.
Leather-board, Making. A. L. Clapp. No. 981,591; Jan. 10; Sp. p. 3182; Gaz. vol. 162; p. 519.
Leather-channeling tool. R. Uto. No. 1,011,678; Dec. 12; Sp. p. 2897; Gaz. vol. 173; p. 484.
Leather-conveying mechanism. C. M. Beadenkopf. No. 1,007,841; Nov. 7; Sp. p. 457; Gaz. vol. 172; p. 68.
Leather-cutting machine. G. D. Marcy. No. 1,007,126; Oct. 31; Sp. p. 5673; Gaz. vol. 171; p. 1041.
Leather-dressing. T. A. Drake. No. 994,446; June 6; Sp. p. 710; Gaz. vol. 167; p. 121.
Leather-glazing machine. W. B. Turner. No. 982,398; Jan. 24; Sp. p. 4906; Gaz. vol. 162; p. 850.
Leather-glazing machine. W. B. Turner. No. 1,007,160; Oct. 31; Sp. p. 5756; Gaz. vol. 171; p. 1054.
Leather, Making sole-. J. A. Tanner. No. 983,005; Jan. 31; Sp. p. 6216; Gaz. vol. 162; p. 1083.
Leather, Manufacturing. J. T. Smith. No. 985,466; Feb. 28; Sp. p. 4809; Gaz. vol. 163; p. 854.
Leather or analogous material, Stretcher for. E. C. Greulich and T. G. Steinke. No. 988,331; Apr. 4; Sp. p. 88; Gaz. vol. 165; p. 16.
Leather, Reconstructed. M. Mason. No. 989,788; Apr. 18; Sp. p. 3215; Gaz. vol. 165; p. 563.
Leather, Repairing cracks in patent-. W. W. Crooker. No. 994,503; June 6; Sp. p. 827; Gaz. vol. 167; p. 139.
Leather, Repairing cracks in patent-. W. W. Crooker. No. 1,004,537; Sept. 26; Sp. p. 5141; Gaz. vol. 170; p. 905.
Leather-shaving machines, Cylinder-grinder for. O. Reirson. No. 980,561; Jan. 3; Sp. p. 835; Gaz. vol. 162; p. 135.
Leather-skiving machine. F. M. Courser. No. 985,401; Feb. 28; Sp. p. 4629; Gaz. vol. 163; p. 830.
Leather-skiving machine. B. Medalie. No. 1,010,065; Nov. 28; Sp. p. 5343; Gaz. vol. 172; p. 958.
Leather-skiving machine. W. T. Shockley. No. 1,012,107; Dec. 19; Sp. p. 3858; Gaz. vol. 173; p. 668.
Leather, Table for setting out. J. T. Smith. No. 1,003,529; Sept. 19; Sp. p. 2913; Gaz. vol. 170; p. 532.
Leather, Treated. C. E. Schmidt. No. 997,513; July 11; Sp. p. 1890; Gaz. vol. 168; p. 340.
Leather, Treating. E. V. Cushman and H. Wright. No. 993,438; May 30; Sp. p. 5596; Gaz. vol. 166; p. 1027.
Leather, Treatment of chrome-tanned. R. W. Griffith. No. 996,080; June 27; Sp. p. 4318; Gaz. vol. 167; p. 783.
Leather waterproofing and preserving composition. C. L. Miller. No. 993,315; May 23; Sp. p. 5302; Gaz. vol. 166; p. 952.
Leather-work, Electrically-heated press for. E. N. Chandler. No. 984,508; Feb. 14; Sp. p. 2707; Gaz. vol. 163; p. 454.
Leather-working machine. A. H. Kehrhahn. No. 982,007; Jan. 17; Sp. p. 4109; Gaz. vol. 162; p. 685.
Leather-working machine. F. J. Perkins. No. 992,049; May 9; Sp. p. 2567; Gaz. vol. 166; p. 457.
Leather-working machine. J. Schmidt. No. 995,575; June 20; Sp. p. 3233; Gaz. vol. 167; p. 571.
Leather-working machine. J. Staniszewski. No. 1,002,879; Sept. 12; Sp. p. 1572; Gaz. vol. 170; p. 273.
Leather-working machines, Hollow work-support for. W. F. Lucke. No. 993,387; May 30; Sp. p. 5483; Gaz. vol. 166; p. 1010.
Leather-working machines, Sectional work-support for. F. J. Perkins. No. 986,497; Mar. 14; Sp. p. 1578; Gaz. vol. 164; p. 281.
Leaves of books and the like, Device for turning over the. F. Klöris. No. 996,347; June 27; Sp. p. 4962; Gaz. vol. 167; p. 873.
Lecithin from the seeds of lupines and other pulses, Extraction of. H. C. Buer. No. 1,001,247; Aug. 22; Sp. p. 4401; Gaz. vol. 169; p. 801.
Lecithin, lecith-albumin, and their by-products out of raw material containing lecithin, Obtaining. J. Habermann and R. Ehrenfeld. No. 987,133; Mar. 21; Sp. p. 2871; Gaz. vol. 164; p. 527.
Ledger, Account-. W. Barr. No. 985,102; Feb. 21; Sp. p. 3933; Gaz. vol. 163; p. 695.

Alphabetical list of inventions—Continued.

Ledger construction, Loose-leaf-. H. S. Duell. No. 981,179; Jan. 10; Sp. p. 2284; Gaz. vol. 162; p. 378.
Ledger, Loose-leaf. R. B. Wilson. No. 992,318; May 16; Sp. p. 3203; Gaz. vol. 166; p. 581.
Leg, Artificial. C. B. Martin. No. 1,009,079; Nov. 21; Sp. p. 3234; Gaz. vol. 172; p. 573.
Leg, Artificial rawhide. W. H. Vanorman. No. 995,817; June 20; Sp. p. 3776; Gaz. vol. 167; p. 658.
Legging. I. Piles. No. 981,222; Jan. 10; Sp. p. 2423; Gaz. vol. 162; p. 392.
Legging. M. Rosenwasser. No. 988,145; Mar. 28; Sp. p. 5090; Gaz. vol. 164; p. 903.
Legging. M. Rosenwasser. No. 994,277; June 6; Sp. p. 363; Gaz. vol. 167; p. 62.
Legging. A. F. Cornelius. No. 998,755; July 25; Sp. p. 4715; Gaz. vol. 168; p. 853.
Legging. L. Pfouts. No. 1,004,812; Oct. 3; Sp. p. 568; Gaz. vol. 171; p. 93.
Legging. C. W. Dulles. No. 1,007,076; Oct. 31; Sp. p. 5557; Gaz. vol. 171; p. 1023.
Legging. A. J. Brauer. No. 1,008,236; Nov. 7; Sp. p. 1275; Gaz. vol. 172; p. 208.
Lemon-juice, Treatment of. A. Fernbach. No. 981,405; Jan. 10; Sp. p. 2828; Gaz. vol. 162; p. 456.
Lemon or orange squeezer, Individual. J. E. P. Pender. No. 995,286; June 13; Sp. p. 2557; Gaz. vol. 167; p. 443.
Lemon-squeezer. F. Carroll. No. 986,800; Mar. 14; Sp. p. 2215; Gaz. vol. 164; p. 385.
Lemon-squeezer. L. A. Billman and L. E. Cornell. No. 991,415; May 2; Sp. p. 1255; Gaz. vol. 166; p. 209.
Lemon-squeezer. C. L. Kee. No. 1,008,969; Nov. 14; Sp. p. 2990; Gaz. vol. 172; p. 499.
Lens. J. G. Gueovjian. No. 1,003,599; Sept. 19; Sp. p. 3086; Gaz. vol. 170; p. 557.
Lens-clamp. F. W. Nolte. No. 999,517; Aug. 1; Sp. p. 640; Gaz. vol. 169; p. 110.
Lens for eyeglasses, Multifocal. A. J. Bowers. No. 993,820; May 30; Sp. p. 6438; Gaz. vol. 166; p. 1160.
Lens-grinding apparatus, Toric-. S. D. Chalmers and H. S. Ryland. No. 990,524; Apr. 25; Sp. p. 4862; Gaz. vol. 165; p. 848.
Lens-grinding machine. S. W. and E. G. Robinson. No. 987,403; Mar. 21; Sp. p. 3478; Gaz., vol. 164; p. 622.
Lens-grinding machine. M. A. Laabs. No. 998,101; July 18; Sp. p. 3267; Gaz. vol. 168; p. 589.
Lens-grinding machine. W. H. Johnson. No. 1,001,410; Aug. 22; Sp. p. 4762; Gaz. vol. 169; p. 858.
Lens-grinding machine. F. Scoville. No. 1,003,816; Sept. 19; Sp. p. 3538; Gaz. vol. 170; p. 629.
Lens-mount. J. Hergarten. No. 992,663; May 16; Sp. p. 3926; Gaz. vol. 166; p. 700.
Lens-mounting. G. Lowenstein. No. 1,005,248; Oct. 10; Sp. p. 1463; Gaz. vol. 171; p. 266.
Lens, Prismatic. W. H. Goldson. No. 989,244; Apr. 11; Sp. p. 2009; Gaz. vol. 165; p. 345.
Lens system for projecting stripes. A. Köhler. No. 988,720; Apr. 4; Sp. p. 933; Gaz. vol. 165; p. 148.
Lenses, Axis-register for. O. M. Myers. No. 996,663; July 4; Sp. p. 136; Gaz. vol. 168; p. 24.
Lenses, Manufacture of bifocal. J. Aitchison. No. 993,812; May 30; Sp. p. 6420; Gaz. vol. 166; p. 1157.
Lenses, Pendulum-support for. G. Dalén. No. 985,513; Feb. 28; Sp. p. 4913; Gaz. vol. 163; p. 871.
Letter-box signal attachment. W. E. Williams. No. 984,502; Feb. 14; Sp. p. 2691; Gaz. vol. 163; p. 452.
Letter-carrier's all-metal cabinet, Rural. W. T. Smith. No. 1,005,663; Oct. 10; Sp. p. 2414; Gaz. vol. 171; p. 414.
Letter record, Registered-. H. M. Moore. No. 980,988; Jan. 10; Sp. p. 1852; Gaz. vol. 162; p. 309.
Letter-sheet. S. J. Watson. No. 1,000,466; Aug. 15; Sp. p. 2674; Gaz. vol. 169; p. 497.
Letter-sheet and envelop, Combination. A. Kramer. No. 980,799; Jan. 3; Sp. p. 1324; Gaz. vol. 162; p. 213.
Letter-sheet and envelop, Combined. F. H. Gregory. No. 994,458; June 6; Sp. p. 727; Gaz. vol. 167; p. 124.
Letter-stamping and receipt-delivering apparatus. O. Oehring. No. 995,631; June 20; Sp. p. 3360; Gaz. vol. 167; p. 592.
Letters and putting them into envelops, Machine for folding. M. Bunnig. No. 999,204; Aug. 1; Sp. p. 26; Gaz. vol. 169; p. 6.
Levees, Device for damming and repairing breaks in. C. F. Francisco. No. 989,902; Apr. 18; Sp. p. 3447; Gaz. vol. 165; p. 600.
Level. M. Ichtertz. No. 983,622; Feb. 7; Sp. p. 786; Gaz. vol. 163; p. 125.
Level. D. F. Lawrence. No. 985,684; Feb. 28; Sp. p. 5260; Gaz. vol. 163; p. 928.
Level. M. E. Comstock. No. 986,909; Mar. 14; Sp. p 2450; Gaz. vol. 164; p. 423.
Level. O. L'heureux. No. 986,924; Mar. 14; Sp. p. 2475; Gaz. vol. 164; p. 428.
Level. J. B. Smith. No. 987,182; Mar. 21; Sp. p. 3000; Gaz. vol. 164; p. 545.
Level. F. Gràul. No. 988,637; Apr. 4; Sp. p. 750; Gaz. vol. 165; p. 120.
Level. W. Meier and C. G. Rumford, Jr. No. 988,888; Apr. 4; Sp. p. 1258; Gaz. vol. 165; p. 201.
Level. M. D. Jones. No. 991,622; May 9; Sp. p. 1712; Gaz. vol. 166; p. 314.
Level. G. H. Prier. No. 992,058; May 9; Sp. p. 2585; Gaz. vol. 166; p. 460.
Level. C. Olson. No. 995,030; June 13; Sp. p. 2054; Gaz. vol. 167; p. 359.
Level. A. P. Lidholm. No. 999,573; Aug. 1; Sp. p. 754; Gaz. vol. 169; p. 130.
Level. F. W. Merriman. No. 1,007,303; Oct. 31; Sp. p. 6051; Gaz. vol. 171; p. 1104.
Level. C. W. Rosenquist. No. 1,008,732; Nov. 14; Sp. p. 2502; Gaz. vol. 172; p. 420.
Level. V. Löfberg. No. 1,012,668; Dec. 26; Sp. p. 5024; Gaz. vol. 173; p. 902.
Level. T. Coughlin. No. 1,012,987; Dec. 26; Sp. p. 5786; Gaz. vol. 173; p. 1012.
Level and plumb. W. Potter. No. 1,004,301; Sept. 26; Sp. p. 4666; Gaz. vol. 170; p. 826.
Level apparatus, Constant-. H. A. Woodward. No. 1,010,562; Dec. 5; Sp. p. 353; Gaz. vol. 173; p. 56.
Level, Dial-. J. O. Ostman. No. 997,084; July 4; Sp. p. 1037; Gaz. vol. 168; p. 167.
Level, Drainage-. P. Gutwein, Jr. (Reissue.) No. 13,240; May 16; Sp. p. 4091; Gaz. vol. 166; p. 730.
Level, Dumpy-. W. A. Berger. No. 994,903; June 13; Sp. p. 1796; Gaz. vol. 167; p. 316.
Level for contractors, Spirit-. C. C. Vaughan. No. 999,066; July 25; Sp. p. 5411; Gaz. vol. 168; p. 963.
Level, Gravity-. D. J. Seymour. No. 995,099; June 13; Sp. p. 2203; Gaz. vol. 167; p. 383.
Level, Illuminated spirit-. J. I. McCullough. No. 1,001,206; Aug. 22; Sp. p. 4330; Gaz. vol. 169; p. 788.
Level, Plumb-. R. E. Stivers. No. 987,770; Mar. 28; Sp. p. 4255; Gaz. vol. 164; p. 775.
Level, Plumb-. R. E. Chase. No. 997,371; July 11; Sp. p. 1628; Gaz. vol. 168; p. 295.
Level, Spirit-. L. C. Miller. No. 981,211; Jan. 10; Sp. p. 2350; Gaz. vol. 162; p. 388.
Level, Spirit-. P. Ekvall. No. 982,260; Jan. 24; Sp. p. 4611; Gaz. vol. 162; p. 800.
Level, Surveyor's. W. M. Jacobs. No. 994,521; June 6; Sp. p. 858; Gaz. vol. 167; p. 145.
Level, Water-. H. S. Weymouth. No. 986,109; Mar. 7; Sp. p. 748; Gaz. vol. 164; p. 120.
Leveling and plumbing instrument. L. B. Worden. No. 1,006,818; Oct. 24; Sp. p. 4982; Gaz. vol. 171; p. 882.
Leveling instrument. I. L. Griswold. No. 1,000,512; Aug. 15; Sp. p. 2771; Gaz. vol. 169; p. 512.
Leveling instrument. H. Stamps. No. 1,012,740; Dec. 26; Sp. p. 5186; Gaz. vol. 173; p. 929.
Lever, Hand-. S. L. Wade. No. 1,006,028; Oct. 17; Sp. p. 3193; Gaz. vol. 171; p. 573.
Lever-handle. H. Christophery. No. 981,246; Jan. 10; Sp. p. 2471; Gaz. vol. 162; p. 401.
Lever-lock. A. B. Diedrich. No. 997,970; July 18; Sp. p. 2959; Gaz. vol. 168; p. 543.
Lever lock, Automobile controller-. F. C. Miller. No. 999,462; Aug. 1; Sp. p. 526; Gaz. vol. 169; p. 93.
Lever-locking device. T. Fawcus. No. 990,852; May 2; Sp. p. 50; Gaz. vol. 166; p. 11.
Lever-locking mechanism. H. H. Wilburn. No. 992,623; May 16; Sp. p. 3856; Gaz. vol. 166; p. 687.
Lever mechanism, Adjusting-. A. Baseman. No. 1,004,728; Oct. 3; Sp. p. 392; Gaz. vol. 171; p. 66.
Lever mechanism, Controlling-. C. W. Parker. No. 982,857; Jan. 31; Sp. p. 5896; Gaz. vol. 162; p. 1035.
Lever mechanism, Platform-. F. H. Buckingham. No. 993,822; May 30; Sp. p. 6442; Gaz. vol. 166; p. 1161.
Lever, Resilient compound. W. V. Gilbert. No. 985,755; Feb. 28; Sp. p. 5438; Gaz. vol. 163; p. 954.
Lever, Uncoupling-. J. B. Augustus. No. 990,828; May 2; Sp. p. 1; Gaz. vol. 166; p. 3.
Lewis. A. A. Birnie and A. H. Desilets. No. 981,365; Jan. 10; Sp. p. 2725; Gaz. vol. 162; p. 442.
License-plate hanger. J. Baker. No. 1,005,499; Oct. 10; Sp. p. 2026; Gaz. vol. 171; p. 355.
Lid-clamp. C. T. Wootten. No. 997,644; July 11; Sp. p. 2188; Gaz. vol. 168; p. 387.
Lid-fastening device. R. B. Goodrich. No. 981,550; Jan. 10; Sp. p. 3100; Gaz. vol. 162; p. 506.
Lid fastening, Metal-. C. T. Wootten. No. 1,003,226; Sept. 12; Sp. p. 2298; Gaz. vol. 170; p. 394.
Lid-lifter. T. W. Comstock. No. 1,002,225; Sept. 5; Sp. p. 75; Gaz. vol. 170; p. 8.
Lid-lifter. R. Snodgrass. No. 1,010,196; Nov. 28; Sp. p. 5596; Gaz. vol. 172; p. 1002.
Lid-retaining mechanism. J. Sturrock and D. A. Schutt. No. 1,001,477; Aug. 22; Sp. p. 4868; Gaz. vol. 169; p. 878.
Life-belt. F. Jonata. No. 998,522; July 18; Sp. p. 4173; Gaz. vol. 168; p. 738.
Life-buoy. C. W. Smith. No. 988,830; Apr. 4; Sp. p. 1147; Gaz. vol. 165; p. 183.
Life-preserver. C. R. McCotter. No. 989,172; Apr. 11; Sp. p. 1853; Gaz. vol. 165; p. 321.
Life-preserver. J. E. Prescott. No. 993,402; May 30; Sp. p. 5510; Gaz. vol. 166; p. 1015.
Life-preserver. H. Paschke. No. 999,856; Aug. 8; Sp. p. 1319; Gaz. vol. 169; p. 254.
Life-preserver. J. Strobel. No. 1,001,476; Aug. 22; Sp. p. 4866; Gaz. vol. 169; p. 878.
Life-preserver. A. Engström. No. 1,005,624; Oct. 10; Sp. p. 2331; Gaz. vol. 171; p. 400.

Life-preserver. C. H. E. G. Muth. No. 1,008,356; Nov. 14; Sp. p. 1581; Gaz. vol. 172; p. 288.
Life-preserver. G. Hines. No. 1,010,426; Dec. 5; Sp. p. 50; Gaz. vol. 173; p. 10.
Life-preserver, Automatic. E. W. Miller. No. 995,888; June 20; Sp. p. 3932; Gaz. vol. 167; p. 682.
Life-preserver for aviators. A. C. Ulmer. No. 982,907; Jan. 31; Sp. p. 6000; Gaz. vol. 162; p. 1051.
Life-preserving belt. F. J. Nekarda. No. 981,788; Jan. 17; Sp. p. 3586; Gaz. vol. 162; p. 608.
Life-rail, cap-course, and gutter construction. J. F. Booraem. No. 987,542; Mar. 21; Sp. p. 3739; Gaz. vol. 164; p. 668.
Life-saving apparatus. E. M. Lawrence. No. 995,611; June 20; Sp. p. 3320; Gaz. vol. 167; p. 585.
Life-saving appliances, Deck-washing device for. F. Eriksen. No. 999,158; July 25; Sp. p. 5574; Gaz. vol. 168; p. 991.
Life-saving belt. A. H. Klint. No. 998,698; July 25; Sp. p. 4568; Gaz. vol. 168; p. 832.
Life-saving device. A. L. Bideaux. No. 986,431; Mar. 14; Sp. p. 1432; Gaz. vol. 164; p. 259.
Life-saving device. A. Gawenda and L. Markó. No. 987,354; Mar. 21; Sp. p. 3370; Gaz. vol. 164; p. 605.
Life-saving device. J. J. Rectenwald. No. 996,361; June 27; Sp. p. 4986; Gaz. vol. 167; p. 878.
Life-saving device. J. J. Rectenwald. No. 996,362; June 27; Sp. p. 4988; Gaz. vol. 167; p. 879.
Life-saving device. L. C. Zwerdling and S. A. Green. No. 1,002,109; Aug. 29; Sp. p. 6199; Gaz. vol. 169; p. 1121.
Life-saving device. E. F. Miller. No. 1,002,424; Sept. 5; Sp. p. 562; Gaz. vol. 170; p. 80.
Life-saving device. J. H. Marsters and F. S. Mathias. No. 1,012,679; Dec. 26; Sp. p. 5046; Gaz. vol. 173; p. 906.
Life-saving device for street-cars. W. H. Martin. No. 991,160; May 2; Sp. p. 711; Gaz. vol. 166; p. 120.
Life-saving device for submarine vessels. D. and J. Chappell. No. 1,002,033; Aug. 29; Sp. p. 6067; Gaz. vol. 169; p. 1097.
Life-saving-garment attachment. P. Catino. No. 1,006,909; Oct. 24; Sp. p. 5200; Gaz. vol. 171; p. 914.
Life-saving sled. E. H. Barney. No. 981,360; Jan. 10; Sp. p. 2717; Gaz. vol. 162; p. 441.
Lift-cages, Safety suspending device for. F. Loos. No. 1,010,281; Nov. 28; Sp. p. 5784; Gaz. vol. 172; p. 1030.
Lift, chair, and wood-box, Combined. W. A. Crawford-Frost. No. 1,005,608; Oct. 10; Sp. p. 2293; Gaz. vol. 171; p. 394.
Lift, Combination hydraulic-jet and water-lubricating air-. A. E. Roe. No. 1,012,224; Dec. 19; Sp. p. 4121; Gaz. vol. 173; p. 707.
Lift-cutting machine. J. L. Kennedy. No. 1,003,965; Sept. 19; Sp. p. 3888; Gaz. vol. 170; p. 682.
Lift-jack for automobiles. J. H. Burkholder. No. 1,004,741; Oct. 3; Sp. ρ. 423; Gaz. vol. 171; p. 70.
Lifter: *See* Bag-lifter; Barrel-lifter; Cuspidor-lifter; Dish and lid lifter; Doughnut-lifter; Globe-lifter; Journal-box lifter; Lantern-globe lifter; Lid-lifter; Nut-lock lifter; Pan-lifter; Pin-lifter; Pipe-lifter; Plate-lifter; Plate or pan lifter; Plow-lifter; Pump-rod lifter; Rack-lifter; Sewing-machine presser-foot lifter; Skylight-lifter; Track-lifter; Transom-lifter; Wagon-box lifter; Well-pipe lifter.
Lifting apparatus. H. Morris and F. Bastert. No. 994,865; June 13; Sp. p. 1699; Gaz. vol. 167; p. 304.
Lifting device. L. M. Follingstad. No. 1,005,633; Oct. 10; Sp. p. 2345; Gaz. vol. 171; p. 403.
Lifting-jack. W. F. Rightmire. No. 986,408; Mar. 7; Sp. p. 1370; Gaz. vol. 164; p. 221.
Lifting-jack. J. B. Taylor. No. 986,781; Mar. 14; Sp. p. 2167; Gaz. vol. 164; p. 378.
Lifting-jack. C. E. Hylander and G. F. Freed. No. 997,133; July 4; Sp. p. 1126; Gaz. vol. 168; p. 183.
Lifting-jack. A. O. Slentz. No. 998,211; July 18; Sp. p. 3482; Gaz. vol. 168; p. 627.
Lifting-jack. H. Austin. No. 1,000,140; Aug. 8; Sp. p. 1960; Gaz. vol. 169; p. 352.
Lifting-jack. A. Neal. No. 1,001,066; Aug. 22; Sp. p. 4042; Gaz. vol. 169; p. 743.
Lifting-jack. J. H. Burkholder. (Reissue.) No. 13,289; Sept. 5; Sp. p. 1399; Gaz. vol. 170; p. 213.
Lifting-jack. W. B. Foster. No. 1,002,982; Sept. 12; Sp. p. 1784; Gaz. vol. 170; p. 309.
Lifting-jack. H. A. Schatz. No. 1,005,479; Oct. 10; Sp. p. 1977; Gaz. vol. 171; p. 348.
Lifting-jack. G. F. Freed. No. 1,010,489; Dec. 5; Sp. p. 192; Gaz. vol. 173; p. 32.
Lifting-jack. A. J. Lange. No. 1,010,774; Dec. 5; Sp. p. 846; Gaz. vol. 173; p. 132.
Lifting-jack and turn-table, Automobile. A. J. Becker. No. 990,096; Apr. 18; Sp. p. 3849; Gaz. vol. 165; p. 666.
Lifting-jack attachment. H. B. Porter. No. 988,208; Mar. 28; Sp. p. 5207; Gaz. vol. 164; p. 923.
Lifting-jack head. A. O. Slentz. No. 1,006,694; Oct. 24; Sp. p. 4701; Gaz. vol. 171; p. 837.
Lifting-jack ratchet device. F. L. Gormley. No. 983,359; Feb. 7; Sp. p. 224; Gaz. vol. 163; p. 38.
Lifting-jack ratchet device. J. H. Burkholder. (Reissue.) No. 13,290; Sept. 5; Sp. p. 1401; Gaz. vol. 170; p. 214.
Lifting-jack, Self-propelling. J. H. Seneff and S. Dixon. No. 992,914; May 23; Sp. p. 4472; Gaz. vol. 166; p. 820.
Lifting-machine. J. Lohse. No. 1,004,048; Sept. 26; Sp. p. 4110; Gaz. vol. 170; p. 739.
Lifting-rig. T. J. Ehrhart. No. 1,009,140; Nov. 21; Sp. p. 3357; Gaz. vol. 172; p. 594.
Ligatures, &c., Container for. G. M. Stratton. No. 990,679; Apr. 25; Sp. p. 5212; Gaz. vol. 165; p. 900.
Light: *See* Automobile pivot-light; Electric drop-light; Gas-light; Gas-burning light; Pivot-light; Scale-light; Search-light; Shoemaker's light; Sidewalk-light; Sidewalk and vault light; Vault-light.
Light apparatus for sea-lights, Intermittent-. G. Rocco. No. 983,840; Feb. 7; Sp. p. 1255; Gaz. vol. 163; p. 200.
Light construction, Sidewalk, floor, vault, and roof. L. W. Mulford. No. 995,079; June 13; Sp. p. 2170; Gaz. vol. 167; p. 376.
Light diffuser, Arc-. A. H. Hawkes. No. 1,008,329; Nov. 14; Sp. p. 1524; Gaz. vol. 172; p. 279.
Light-diffusing apparatus, Artificial-. N. Losey. No. 999,813; Aug. 8; Sp. p. 1225; Gaz. vol. 169; p. 240.
Light-fixture. M. F. Finkelstein. No. 986,274; Mar. 7; Sp. p. 1081; Gaz. vol. 164; p. 173.
Light-fixture, Extensible. W. Lumley. No. 980,308; Jan. 3; Sp. p. 242; Gaz. vol. 162; p. 46.
Light or other fixture, Adjustable. W. L. Franks. No. 986,451; Mar. 14; Sp. p. 1471; Gaz. vol. 164; p. 265.
Light-screen for bedsteads. J. B. Beatty. No. 984,342; Feb. 14; Sp. p. 2364; Gaz. vol. 163; p. 399.
Light-shade. A. B. Schrier. No. 996,430; June 27; Sp. p 5158; Gaz. vol. 167; p. 903.
Light-trap. J. Goddard. No. 985,581; Feb. 28; Sp. p. 5061; Gaz. vol. 163; p. 894.
Lights, Automatic cut-off for gasolene-generated. A. L. Dennstedt. No. 1,006,919; Oct. 24; Sp. p. 5215; Gaz. vol. 171; p. 917.
Lighter. W. C. Blaska. No. 993,950; May 30; Sp. p. 6681; Gaz. vol. 166; p. 1202.
Lighter, Automatic. E. Husson. No. 1,006,557; Oct. 24; Sp. p. 4437; Gaz. vol. 171; p. 791.
Lighter, Portable. C. Hubert. No. 995,463; June 20; Sp. p. 2977; Gaz. vol. 167; p. 532.
Lighting apparatus, Globe-holder for. J. H. Goss and J. Weber. No. 984,136; Feb. 14; Sp. p. 1912; Gaz. vol. 163; p. 328.
Lighting appliance, Hydrocarbon. C. K. Harding. No. 1,005,203; Oct. 10; Sp. p. 1356; Gaz. vol. 171; p. 250.
Lighting-chains, Pull-knob for. G. A. King. No. 992,001; May 9; Sp. p. 2483; Gaz. vol. 166; p. 441.
Lighting device. M. L. Hawks. No. 993,678; May 30; Sp. p. 6140; Gaz. vol. 166; p. 1111.
Lighting devices, Shock-absorber for. R. B. Benjamin. No. 1,004,137; Sept. 26; Sp. p. 4333; Gaz. vol. 170; p. 770.
Lighting-fixture. L. E. Fitzsimons. No. 992,416; May 16; Sp. p. 3422; Gaz. vol. 166; p. 616.
Lighting-fixture. J. W. Phillips. 993,713; May 30; Sp. p. 6214; Gaz. vol. 166; p. 1123.
Lighting-fixture. F. W. Wakefield. No. 1,010,099; Nov. 28; Sp. p. 5411; Gaz. vol. 172; p. 970.
Lighting-fixtures, Canopy-ring for. A. S. Goddard. No. 1,010,893; Dec. 5; Sp. p. 1098; Gaz. vol. 173; p. 172.
Lighting system. R. E. Betz. No. 1,009,888; Nov. 28; Sp. p. 4972; Gaz. vol. 172; p. 898.
Lighting system, Hydrocarbon. A. B. Lowry. No. 995,882; June 20; Sp. p. 3914; Gaz. vol. 167; p. 680.
Lighting system, Hydrocarbon. C. K. Harding. No. 1,010,623; Dec. 5; Sp. p. 503; Gaz. vol. 173; p. 78.
Lighting systems, Service-pipe for. J. Stubbers. No. 996,535; June 27; Sp. p. 5355; Gaz. vol. 167; p. 937.
Lighting, Vacuum-tube. D. M. Moore. No. 1,005,867; Oct. 17; Sp. p. 2842; Gaz. vol. 171; p. 517.
Lightning-arrester. N. E. Norstrom. No. 980,884; Jan. 3; Sp. p. 1531; Gaz. vol. 162; p. 243.
Lightning-arrester. E. J. Berg. No. 981,742; Jan. 17; Sp. p. 3490; Gaz. vol. 162; p. 591.
Lightning-arrester. R. P. Jackson. No. 981,764; Jan. 17; Sp. p. 3538; Gaz. vol. 162; p. 600.
Lightning-arrester. E. E. F. Creighton. No. 982,224; Jan. 17; Sp. p. 4522; Gaz. vol. 162; p. 759.
Lightning-arrester. E. R. Harding. No. 984,559; Feb. 21; Sp. p. 2851; Gaz. vol. 163; p. 508.
Lightning-arrester. E. E. F. Creighton. No. 989,487; Apr. 11; Sp. p. 2518; Gaz. vol. 165; p. 426.
Lightning-arrester. A. R. Rheinberger. No. 991,749; May 9; Sp. p. 1977; Gaz. vol. 166; p. 355.
Lightning-arrester. E. W. Vogel. No. 991,912; May 9; Sp. p. 2310; Gaz. vol. 166; p. 411.
Lightning-arrester. E. E. F. Creighton. No. 992,744; May 16; Sp. p. 4088; Gaz. vol. 166; p. 730.
Lightning-arrester. L. S. Brach. No. 1,004,235; Sept. 26; Sp. p. 4544; Gaz. vol. 170; p. 804.
Lightning-arrester. S. E. Mark. No. 1,004,286; Sept. 26; Sp. p. 4636; Gaz. vol. 170; p. 820.
Lightning-arrester. E. E. F. Creighton. No. 1,004,531; Sept. 26; Sp. p. 5131; Gaz. vol. 170; p. 903.
Lightning-arrester. E. E. F. Creighton. No. 1,004,535; Sept. 26; Sp. p. 5138; Gaz. vol. 170; p. 904.
Lightning-arrester. J. D. Hilliard, Jr., and C. E. Parsons. No. 1,005,033; Oct. 3; Sp. p. 1013; Gaz. vol. 171; p. 169.
Lightning-arrester. W. E. Butler. No. 1,007,770; Nov. 7; Sp. p. 261; Gaz. vol. 172; p. 42.

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Lightning-arrester. C. Robinson. No. 1,011,493; Dec. 12; Sp. p. 2459; Gaz. vol. 173; p. 419.
Lightning-arrester. E. Weintraub. No. 1,011,538; Dec. 12; Sp. p. 2568; Gaz. vol. 173; p. 434.
Lightning-arrester and fuse-block, Combination. E. B. Fahnestock. No. 1,010,606; Dec. 5; Sp. p. 466; Gaz. vol. 173; p. 72.
Lightning-arrester, Automatic fusible. A. Reid. No. 991,372; May 2; Sp. p. 1170; Gaz. vol. 166; p. 195.
Lightning-arrester, Electrolytic. E. E. F. Creighton. No. 993,961; May 30; Sp. p. 6700; Gaz. vol. 166; p. 1205.
Lightning-arrester, Electrolytic. E. E. F. Creighton. No. 1,004,533; Sept. 26; Sp. p. 5134; Gaz. vol. 170; p. 904.
Lightning-arrester for multiphase low-voltage circuits, Liquid-electrode. E. E. F. Creighton. No. 1,004,534; Sept. 26; Sp. p. 5136; Gaz. vol. 170; p. 904.
Lightning-arrester with gap and blow-out, Electrolytic. E. E. F. Creighton. No. 1,004,536; Sept. 26; Sp. p. 5140; Gaz. vol. 170; p. 905.
Lightning-arresters, Rectifying system for aluminum-cell. C. P. Steinmetz. No. 987,924; Mar. 28; Sp. p. 4605; Gaz. vol. 164; p. 829.
Lightning-rod. C. E. Yarian. No. 984,175; Feb. 14; Sp. p. 1990; Gaz. vol. 163; p. 341.
Lightning-rod brace. G. A. and L. E. Miller. No. 1,003,285; Sept. 12; Sp. p. 2418; Gaz. vol. 170; p. 416.
Lightning-rod cable. E. H. Parker. No. 1,004,681; Oct. 3; Sp. p. 276; Gaz. vol. 171; p. 48.
Lightning-rod-top brace. W. C. Shinn. No. 995,638; June 20; Sp. p. 3378; Gaz. vol. 167; p. 595.
Limb, Artificial. J. K. Toles. No. 980,457; Jan. 3; Sp. p. 600; Gaz. vol. 162; p. 99.
Limb, Artificial. H. L. Lawrence. No. 987,893; Mar. 28; Sp. p. 4537; Gaz. vol. 164; p. 818.
Limb, Artificial. W. G. Kelly. No. 989,526; Apr. 11; Sp. p. 2612; Gaz. vol. 165; p. 441.
Limb, Artificial. B. Connor. No. 1,001,356; Aug. 22; Sp. p. 4649; Gaz. vol. 169; p. 839.
Limb, Artificial. W. H. Manning. No. 1,005,254; Oct. 10; Sp. p. 1481; Gaz. vol. 171; p. 269.
Limb, Artificial. A. E. Gaines and A. A. Erb. No. 1,008,253; Nov. 7; Sp. p. 1303; Gaz. vol. 172; p. 213.
Limb-rest. H. Bauerfeind. No. 988,923; Apr. 4; Sp. p. 1322; Gaz. vol. 165; p. 212.
Limb-support. G. T. Messler. No. 992,514; May 16; Sp. p. 3624; Gaz. vol. 166; p. 650.
Limb-support. W. A. Holder. No. 1,007,567; Oct. 31; Sp. p. 6634; Gaz. vol. 171; p. 1196.
Lime and fertilizer distributer. E. M. Bickerstaff. No. 981,160; Jan. 10; Sp. p. 2242; Gaz. vol. 162; p. 371.
Lime, Burning. J. G. Jones. No. 1,011,804; Dec. 12; Sp. p. 3159; Gaz. vol. 173; p. 528.
Lime-hydrating machine. E. E. Lepine. No. 982,148; Jan. 17; Sp. p. 4377; Gaz. vol. 162; p. 732.
Lime-hydrating machine. J. Currie. No. 989,126; Apr. 11; Sp. p. 1749; Gaz. vol. 165; p. 305.
Lime, Increasing the binding power of basic silicates of. W. Schumacher. No. 1,003,813; Sept. 19; Sp. p. 3532; Gaz. vol. 170; p. 629.
Lime-slaking apparatus. W. Schulthess. No. 1,001,310; Aug. 22; Sp. p. 4550; Gaz. vol. 169; p. 824.
Lime-spreader. E. G. and A. E. Quickel. No. 1,010,454; Dec. 5; Sp. p. 100; Gaz. vol. 173; p. 20.
Limekiln. P. McLoon. No. 1,001,207; Aug. 22; Sp. p. 4332; Gaz. vol. 169; p. 789.
Lincrusta, Process and apparatus for manufacturing. R. Holtkott. No. 1,004,027; Sept. 26; Sp. p. 4050; Gaz. vol. 170; p. 731.
Line-casting and type-composing machine. B. Cade. No. 1,002,220; Sept. 5; Sp. p. 57; Gaz. vol. 170; p. 7.
Line-casting machine. D. S. Kennedy. No. 989,908; Apr. 18; Sp. p. 3467; Gaz. vol. 165; p. 603.
Line-casting machine. R. M. Bedell. No. 989,943; Apr. 18; Sp. p. 3552; Gaz. vol. 165; p. 616.
Line-casting machine. C. Muehleisen. No. 992,031; May 9; Sp. p. 2532; Gaz. vol. 166; p. 450.
Line-casting machine. R. M. Bedell. No. 996,828; July 4; Sp. p. 467; Gaz. vol. 168; p. 77.
Line-casting machine. J. R. Rogers. No. 998,802; July 25; Sp. p. 4807; Gaz. vol. 168; p. 869.
Line-casting machine. D. S. Kennedy. No. 1,002,281; Sept. 5; Sp. p. 216; Gaz. vol. 170; p. 28.
Line-casting machine. J. R. Rogers. No. 1,002,320; Sept. 5; Sp. p. 309; Gaz. vol. 170; p. 43.
Line-casting machine. D. S. Kennedy. No. 1,011,442; Dec. 12; Sp. p. 2338; Gaz. vol. 173; p. 399.
Line-casting machine, Typographical. H. Degener. No. 1,006,445; Oct. 17; Sp. p. 4138; Gaz. vol. 171; p. 719.
Line-casting machine, Typographical. C. Muehleisen. No. 1,009,851; Nov. 28; Sp. p. 4902; Gaz. vol. 172; p. 886.
Line-casting machines, Composing and assembling mechanism of. C. Muehleisen. No. 992,030; May 9; Sp. p. 2530; Gaz. vol. 166; p. 450.
Line casting machines, Distributing mechanism of. C. Muehleisen. No. 992,032; May 9; Sp. p. 2534; Gaz. vol. 166; p. 451.
Line-drying reel. E. Spencer. No. 987,411; Mar. 21; Sp. p. 3496; Gaz. vol. 164; p. 624.
Line-fastener. G. A. Truesdell. No. 1,009,808; Nov. 28; Sp. p. 4811; Gaz. vol. 172; p. 872.
Line-joint tester. H. H. Simpson. No. 1,007,741; Nov. 7; Sp. p. 197; Gaz. vol. 172; p. 31.
Line-lock and margin-stop mechanism. C. Spiro. No. 987,765; Mar. 28; Sp. p. 4237; Gaz. vol. 164; p. 773.
Line setting and casting machine. H. Degener. No. 996,568; June 27; Sp. p. 5413; Gaz. vol. 167; p. 947.
Line-spacing mechanism. C. Spiro. No. 987,763; Mar. 28; Sp. p. 4229; Gaz. vol. 164; p. 772.
Line-stop and signal device. J. Raber. No. 1,005,782; Oct. 10; Sp. p. 2645; Gaz. vol. 171; p. 456.
Line-support. S. A. Roberts. No. 1,000,756; Aug. 15; Sp. p. 3322; Gaz. vol. 169; p. 600.
Lines, Machine for producing justified. W. S. Timmis. No. 996,300; June 27; Sp. p. 4832; Gaz. vol. 167; p. 856.
Lineman's protector. H. E. Marshall. No. 992,738; May 16; Sp. p. 4074; Gaz. vol. 166; p. 728.
Link, Fusible. A. B. Crowder. No. 996,219; June 27; Sp. p. 4653; Gaz. vol. 167; p. 830.
Link mesh. J. Ortner. No. 1,002,539; Sept. 5; Sp. p. 805; Gaz. vol. 170; p. 117.
Link, Removable. E. J. Nixon. No. 986,938; Mar. 14; Sp. p. 2498; Gaz. vol. 164; p. 432.
Link ring. G. A. Briggs. No. 1,003,696; Sept. 19; Sp. p. 3304; Gaz. vol. 170; p. 591.
Linoleum, Machinery for the manufacture of inlaid. J. Wright. No. 1,005,587; Oct. 10; Sp. p. 2253; Gaz. vol. 171; p. 388.
Linoleum, Making plates of linoleum composition for producing blocks for the manufacture of continuously-grained. F. E. Fritz. No. 1,001,836; Aug. 29; Sp. p. 5638; Gaz. vol. 169; p. 1032.
Linotype-machine. H. Degener. No. 982,173; Jan. 17; Sp. p. 4420; Gaz. vol. 162; p. 740.
Linotype-machine. S. M. Lummus. No. 987,473; Mar. 21; Sp. p. 3625; Gaz. vol. 164; p. 645.
Linotype-machine. H. Petersen. No. 992,900; May 23; Sp. p. 4440; Gaz. vol. 166; p. 814.
Linotype-machine. W. H. Scharf. No. 1,005,324; Oct. 10; Sp. p. 1647; Gaz. vol. 171; p. 295.
Linotype-machine. W. H. Scharf. No. 1,005,325; Oct. 10; Sp. p. 1652; Gaz. vol. 171; p. 295.
Linotype-machine attachment. R. W. Pittman. No. 992,385; May 16; Sp. p. 3363; Gaz. vol. 166; p. 605.
Linotype-machine matrix. H. Degener. No. 989,129; Apr. 11; Sp. p. 1754; Gaz. vol. 165; p. 306.
Linotype-machines, Distributer and assembler for. K. S. Reist and S. B. Batsford. No. 1,005,576; Oct. 10; Sp. p. 2227; Gaz. vol. 171; p. 384.
Linotype-machines, &c., Escapement-operating mechanism for. D. S. Kennedy. No. 1,010,435; Dec. 5; Sp. p. 63; Gaz. vol. 173; p. 13.
Linotype-machines, Mold-lock for. A. W. Le Boeuf. No. 982,834; Jan. 31; Sp. p. 5829; Gaz. vol. 162; p. 1026.
Linotype-mold. A. W. Le Boeuf. No. 1,005,438; Oct. 10; Sp. p. 1897; Gaz. vol. 171; p. 335.
Linotype-mold. D. Petri-Palmedo. No. 1,005,463; Oct. 10; Sp. p. 1943; Gaz. vol. 171; p. 343.
Linoxyn and like products especially intended for utilization in the linoleum manufacture, Manufacturing. A. Genthe. No. 986,562; Mar. 14; Sp. p. 1717; Gaz. vol. 164; p. 304.
Liquid, Apparatus for precipitation treatment of. F. Ondra. No. 1,003,781; Sept. 19; Sp. p. 3482; Gaz. vol. 170; p. 619.
Liquid, Apparatus for the delivery of measured quantities of. A. Wahl. No. 997,939; July 11; Sp. p. 2874; Gaz. vol. 168; p. 491.
Liquid-applying and polishing device. C. Frank. No. 1,001,834; Aug. 29; Sp. p. 5632; Gaz. vol. 169; p. 1032.
Liquid-concentrating apparatus. P. Kestner. No. 1,013,091; Dec. 26; Sp. p. 5994; Gaz. vol. 173; p. 1048.
Liquid-containers, Combined closure and spreader for. J. Erwin. No. 1,000,081; Aug. 8; Sp. p. 1838; Gaz. vol. 169; p. 332.
Liquid-cooler. W. E. Patnaude. No. 996,127; June 27; Sp. p. 4419; Gaz. vol. 167; p. 799.
Liquid-cooler. L. B. Johnson. No. 1,001,960; Aug. 29; Sp. p. 5928; Gaz. vol. 169; p. 1074.
Liquid cooler or receptacle. L. Zelazo. No. 987,031; Mar. 14; Sp. p. 2668; Gaz. vol. 164; p. 461.
Liquid cooling and dispensing apparatus. W. H. Walter. No. 991,568; May 9; Sp. p. 1594; Gaz. vol. 166; p. 294.
Liquid-cooling apparatus. F. W. Haas. No. 984,660; Feb. 21; Sp. p. 3064; Gaz. vol. 163; p. 542.
Liquid-cooling device. B. H. Coffey. No. 1,010,020; Nov. 28; Sp. p. 5260; Gaz. vol. 172; p. 943.
Liquid-cooling tank, Portable. J. D. Ingram. No. 992,506; May 16; Sp. p. 3604; Gaz. vol. 166; p. 647.
Liquid-desiccating apparatus. I. S. Merrell. No. 985,747; Feb. 28; Sp. p. 5421; Gaz. vol. 163; p. 951.
Liquid-dispensing apparatus. W. E. Hodgdon. No. 987,363; Mar. 21; Sp. p. 3383; Gaz. vol. 164; p. 608.
Liquid-dispensing apparatus. R. G. Slee. No. 999,602; Aug. 1; Sp. p. 800; Gaz. vol. 169; p. 140.
Liquid-dispensing device. J. H. Champ. No. 986,361; Mar. 7; Sp. p. 1270; Gaz. vol. 164; p. 205.
Liquid-dispensing device. V. T. and H. E. Moys. No. 1,009,550; Nov. 21; Sp. p. 4296; Gaz. vol. 172; p. 740.
Liquid-dispensing device. M. O. Rehfuss. No. 1,012,439; Dec. 19; Sp. p. 4547; Gaz. vol. 173; p. 778.

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Liquid-dispensing vessel. W. A. Jameson. No. 1,009,070; Nov. 21; Sp. p. 3220; Gaz. vol. 172; p. 571.
Liquid-dropper. G. B. Haines. No. 996,330; June 27; Sp. p. 4926; Gaz. vol. 167; p. 867.
Liquid-elevator, Automatic. W. H. Smith. No. 1,009,349; Nov. 21; Sp. p. 3846; Gaz. vol. 172; p. 670.
Liquid-feeding device. C. Martini. No. 987,248; Mar. 21; Sp. p. 3146; Gaz. vol. 164; p. 570.
Liquid-fuel adjustable burner. E. Rossi. No. 981,119; Jan. 10; Sp. p. 2158; Gaz. vol. 162; p. 356.
Liquid-fuel burner. W. A. Wallace and A. Crume. No. 981,504; Jan. 10; Sp. p. 3007; Gaz. vol. 162; p. 490.
Liquid-fuel burner. H. H. Akers. No. 982,342; Jan. 24; Sp. p. 4791; Gaz. vol. 162; p. 830.
Liquid-fuel burner. J. B. Hayden. No. 982,960; Jan. 31; Sp. p. 6112; Gaz. vol. 162; p. 1068.
Liquid-fuel burner. H. W. Schoff. No. 985,291; Feb. 28; Sp. p. 4416; Gaz. vol. 163; p. 795.
Liquid-fuel burner. J. J. Vallier. No. 985,644; Feb. 28; Sp. p. 5175; Gaz. vol. 163; p. 915.
Liquid-fuel burner. L. O. Pearson. No. 989,038; Apr. 11; Sp. p. 1568; Gaz. vol. 165; p. 275.
Liquid-fuel burner. N. T. Hansen. No. 989,351; Apr. 11; Sp. p. 2247; Gaz. vol. 165; p. 381.
Liquid-fuel burner. L. S. Provin. No. 989,640; Apr. 18; Sp. p. 2897; Gaz. vol. 165; p. 511.
Liquid-fuel burner. W. H. Burk and L. M. Rigby. No. 992,404; May 16; Sp. p. 3400; Gaz. vol. 166; p. 612.
Liquid-fuel burner. J. E. Dunkley. No. 993,768; May 30; Sp. p. 6331; Gaz. vol. 166; p. 1141.
Liquid-fuel burner. U. G. and C. T. Boswell. No. 994,090; May 30; Sp. p. 6968; Gaz. vol. 166; p. 1249.
Liquid-fuel burner. R. L. and H. R. Hannah. No. 995,425; June 13; Sp. p. 2910; Gaz. vol. 167; p. 491.
Liquid-fuel burner. H. A. Morey. No. 996,660; July 4; Sp. p. 132; Gaz. vol. 168; p. 23.
Liquid-fuel burner. W. L. Hawkins. No. 998,337; July 18; Sp. p. 3802; Gaz. vol. 168; p. 676.
Liquid-fuel burner. F. C. Binkley. No. 1,000,229; Aug. 8; Sp. p. 2152; Gaz. vol. 169; p. 383.
Liquid-fuel burner. F. E. Mavrogordato. No. 1,009,678; Nov. 21; Sp. p. 4528; Gaz. vol. 172; p. 779.
Liquid-fuel-burner tip. W. F. Goodwin and J. C. Low. No. 982,424; Jan. 24; Sp. p. 4964; Gaz. vol. 162; p. 859.
Liquid-fuel-burning apparatus. J. A. Seaverns. No. 1,008,740; Nov. 14; Sp. p. 2516; Gaz. vol. 172; p. 424.
Liquid-fuel-burning system. E. W. Tucker. No. 996,737; July 4; Sp. p. 272; Gaz. vol. 168; p. 48.
Liquid-fuel-control system. G. T. Hanchett. No. 991,152; May 2; Sp. p. 692; Gaz. vol. 166; p. 117.
Liquid-fuel governor. G. E. Witt. No. 986,791; Mar. 14; Sp. p. 2193; Gaz. vol. 164; p. 382.
Liquid-gage. T. D. Millea and M. J. Carroll. No. 980,320; Jan. 3; Sp. p. 273; Gaz. vol. 162; p. 50.
Liquid-gage. F. Leonhardt. No. 1,006,105; Oct. 17; Sp. p. 3356; Gaz. vol. 171; p. 599.
Liquid-gage for tanks. E. C. Swett. No. 1,000,208; Aug. 8; Sp. p. 2114; Gaz. vol. 169; p. 376.
Liquid gaging and measuring apparatus. J. Schneible. No. 1,007,393; Oct. 31; Sp. p. 6250; Gaz. vol. 171; p. 1137.
Liquid gravity separation of solids. F. I. Du Pont. No. 1,004,815; Oct. 3; Sp. p. 572; Gaz. vol. 171; p. 94.
Liquid-heater. H. E. Bandlow. No. 981,155; Jan. 10; Sp. p. 2233; Gaz. vol. 162; p. 369.
Liquid-heater. E. R. Waterman. No. 991,765; May 9; Sp. p. 2003; Gaz. vol. 166; p. 360.
Liquid-heater, Electrical. A. P. Nichols. No. 991,877; May 9; Sp. p. 2234; Gaz. vol. 166; p. 399.
Liquid heating or cooling apparatus. G. W. Nistle. No. 991,636; May 9; Sp. p. 1739; Gaz. vol. 166; p. 319.
Liquid impelling or circulating device. W. W. Castle. No. 999,092; July 25; Sp. p. 5462; Gaz. vol. 168; p. 971.
Liquid in measured quantities, Apparatus for delivering. A. Jacobson. No. 1,001,853; Aug. 29; Sp p. 5671; Gaz. vol. 169; p. 1038.
Liquid-jacket. W. Barlow. No. 981,238; Jan. 10; Sp. p. 2456; Gaz. vol. 162; p. 398.
Liquid-lifting apparatus. O. H. and A. L. Eliel. No. 1,005,108; Oct. 3; Sp. p. 1144; Gaz. vol. 171; p. 193.
Liquid, Means for separating pulverized ore or other comminuted solid matter from. A. J. Arbuckle. No. 988,535; Apr. 4; Sp. p. 522; Gaz. vol. 165; p. 83.
Liquid-meter. R. Lobse. No. 990,208; Apr. 18; Sp. p. 4093; Gaz. vol. 165; p. 704.
Liquid-meter. H. C. Alger. No. 1,000,973; Aug. 22; Sp. p. 3799; Gaz. vol. 169; p. 709.
Liquid mixing and containing apparatus. F. Purdy. No. 992,802; May 23; Sp. p. 4214; Gaz. vol. 166; p. 778.
Liquid-mixing apparatus. C. Carlton. No. 1,003,872; Sept. 19; Sp. p. 3653; Gaz. vol. 170; p. 650.
Liquid-mixing apparatus. L. M. Hooper. No. 1,010,052; Nov. 28; Sp. p. 5322; Gaz. vol. 172; p. 954.
Liquid-mixing apparatus. C. Carlton and C. E. Newton. No. 1,011,317; Dec. 12; Sp. p. 2081; Gaz. vol. 173; p. 357.
Liquid-regulator, Thermostatic. W. East, A. E. Dobbs, and J. S. Howkins. No. 1,011,041; Dec. 5; Sp. p. 1394; Gaz. vol. 173; p. 222.
Liquid self-igniting device. S. B. Battey. No. 987,104; Mar. 21; Sp. p. 2802; Gaz. vol. 164; p. 516.
Liquid-separating device. H. H. Wheeler. No. 982,328; Jan. 24; Sp. p. 4766; Gaz. vol. 162; p. 825.
Liquid separation of solid constituents. F. I. Du Pont. No. 994,950; June 13; Sp. p. 1889; Gaz. vol. 167; p. 332.
Liquid-separator. J. E. Jeanson. No. 985,598; Feb. 28; Sp. p. 5090; Gaz. vol. 163; p. 900.
Liquid-separator, Centrifugal. H. Feldmeier. No. 987,973; Mar. 28; Sp. p. 4748; Gaz. vol. 164; p. 847.
Liquid-separator, Centrifugal. B. R. Wright. No. 989,099; Apr. 11; Sp. p. 1698; Gaz. vol. 165; p. 296.
Liquid-separator, Centrifugal. E. A. Forsberg. No. 993,048; May 23; Sp. p. 4765; Gaz. vol. 166; p. 866.
Liquid-separator, Centrifugal. J. V. M. Risberg and G. W. Johansson. No. 1,003,206; Sept. 12; Sp. p. 2256; Gaz. vol. 170; p. 387.
Liquid-separator liner, Centrifugal. O. Ohlsson. No. 993,791; May 30; Sp. p. 6374; Gaz. vol. 166; p. 1149.
Liquid-separators, Means for feeding liquid into centrifugal. C. A. and O. W. Hult. No. 996,586; June 27; Sp. p. 5457; Gaz. vol. 167; p. 954.
Liquid substances, Desiccating. W. S. Osborne. No. 1,007,599; Oct. 31; Sp. p. 6698; Gaz. vol. 171; p. 1206.
Liquid suspended in another liquid, Apparatus for separating and collecting particles of one. F. G. Cottrell and J. B. Speed. No. 987,116; Mar. 21; Sp. p. 2827; Gaz. vol. 164; p. 520.
Liquid suspended in another liquid, Separating and collecting particles of one. F. G. Cottrell. No. 987,114; Mar. 21; Sp. p. 2821; Gaz. vol. 164; p. 519.
Liquid suspended in another liquid, Separating and collecting particles of one. F. G. Cottrell and J. B. Speed. No. 987,115; Mar. 21; Sp. p. 2823; Gaz. vol. 164; p. 520.
Liquid suspended in another liquid, Separating and collecting particles of one. F. G. Cottrell and A. C. Wright. No. 987,117; Mar. 21; Sp. p. 2830; Gaz. vol. 164; p. 521.
Liquid suspended in another liquid, Separating and collecting particles of one. F. G. Cottrell. No. 994,377; June 6; Sp. p. 580; Gaz. vol. 167; p. 99.
Liquid-tank. P. Okey. No. 984,151; Feb. 14; Sp. p. 1945; Gaz. vol. 163; p. 333.
Liquid-testing device, Centrifugal. J. Boekel. No. 1,001,611; Aug. 29; Sp. p. 5148; Gaz. vol. 169; p. 954.
Liquid-trap. E. C. Worns. No. 981,347; Jan. 10; Sp. p. 2691; Gaz. vol. 162; p. 437.
Liquid-treating apparatus. K. W. Bartlett. No. 1,011,399; Dec. 12; Sp. p. 2242; Gaz. vol. 173; p. 383.
Liquids and solids, Apparatus for separating. J. J. Berrigan. No. 1,005,800; Oct. 17; Sp. p. 2682; Gaz. vol. 171; p. 492.
Liquids, Apparatus for ascertaining the composition of any boiling mixture of. C. von Linde. No. 999,574; Aug. 1; Sp. p. 756; Gaz. vol. 169; p. 130.
Liquids, Apparatus for controlling the flow of. A. Priestman. No. 989,046; Apr. 11; Sp. p. 1585; Gaz. vol. 165; p. 278.
Liquids, Apparatus for controlling the flow of. A. Priestman. No. 989,047; Apr. 11; Sp. p. 1586; Gaz. vol. 165; p. 278.
Liquids, Apparatus for conveying inflammable. C. Martini. No. 1,004,287; Sept. 26; Sp. p. 4637; Gaz. vol. 170; p. 821.
Liquids, Apparatus for testing the consistency of. C. F. Strasburger. No. 989,822; Apr. 18; Sp. p. 3293; Gaz. vol. 165; p. 574.
Liquids by means of steam, Apparatus for heating and evaporating. D. B. Morison. No. 1,000,285; Aug. 8; Sp. p. 2267; Gaz. vol. 169; p. 401.
Liquids, Condensing or evaporating. B. B. Corliss. No. 986,365; Mar. 7; Sp. p. 1277; Gaz. vol. 164; p. 206.
Liquids, Device for drawing off measured quantities of. C. L. Newland. No. 1,001,977; Aug. 29; Sp. p. 5954; Gaz. vol. 169; p. 1079.
Liquids, Drying. J. Kunick. No. 1,012,866; Dec. 26; Sp. p. 5494; Gaz. vol. 173; p. 972.
Liquids electrolytically, Apparatus for treating. A. O. Tate. No. 991,760; May 9; Sp. p. 1996; Gaz. vol. 166; p. 359.
Liquids, especially milk, Apparatus for heating. J. Fliegel. No. 987,975; Mar. 28; Sp. p. 4753; Gaz. vol. 164; p. 847.
Liquids, Feeding device for. R. B. McLeod. No. 1,009,916; Nov. 28; Sp. p. 5023; Gaz. vol. 172; p. 907.
Liquids from gases or vapors, Apparatus for the separation of. O. Bühring. No. 981,058; Jan. 10; Sp. p. 2033; Gaz. vol. 162; p. 334.
Liquids into vessels for containing the same, Apparatus for controlling and registering the supply of. A. A. Quick and C. J. Spencer. No. 1,010,953; Dec. 5; Sp. p. 1223; Gaz. vol. 173; p. 193

Alphabetical list of inventions—Continued.

Liquids or gases, Apparatus for controlling the flow of. S. Cook. No. 1,004,629; Oct. 3; Sp. p. 173; Gaz. vol. 171; p. 30.
Liquids or solids from gases, Device for separating. J. W. Gamble. No. 982,488; Jan. 24; Sp. p. 5112; Gaz. vol. 162; p. 882.
Liquids, Preparing wood-impregnating. J. Dehnst. No. 999,013; July 25; Sp. p. 5306; Gaz. vol. 168; p. 944.
Liquids, Treatment of. A. Brandes. (Reissue.) No. 13,338; Dec. 12; Sp. p. 3360; Gaz. vol. 173; p. 558.
Liquor, Apparatus for delivering measured quantities of. D. Griffiths. No. 1,004,019; Sept. 26; Sp. p. 4022; Gaz. vol. 170; p. 727.
Liquor, Process and apparatus for electrolytic recovery of waste. F. F. Farnham. No. 1,006,836; Oct. 24; Sp. p. 5039; Gaz. vol. 171; p. 888.
Lister covering attachment. W. A. Stephens. No. 1,012,287; Dec. 19; Sp. p. 4248; Gaz. vol. 173; p. 729.
Lister, planter, and ridge-buster, Combined. S. B. Hamilton. No. 1,002,683; Sept. 5; Sp. p. 1109; Gaz. vol. 170; p. 167.
Listing-indicator. J. Arnst. No. 1,003,863; Sept. 19; Sp. p. 3637; Gaz. vol. 170; p. 646.
Lithographic-stone-graining device. C. A. G. Pfanne. No. 990,384; Apr. 25; Sp. p. 4523; Gaz. vol. 165; p. 798.
Lithographic stones or metal plates, Producing substitutes for. H. Christensen. No. 991,273; May 2; Sp. p. 958; Gaz. vol. 166; p. 161.
Lithography. O. Busse. No. 1,007,846; Nov. 7; Sp. p. 466; Gaz. vol. 172; p. 69.
Litter-carrier. F. G. Held. No. 1,007,781; Nov. 7; Sp. p. 291; Gaz. vol. 172; p. 46.
Litter-carrier. T. Loe. No. 1,012,667; Dec. 26; Sp. p. 5022; Gaz. vol. 173; p. 902.
Litter-carrier holdfast. P. E. Gray. No. 1,012,628; Dec. 26; Sp. p. 4947; Gaz. vol. 173; p. 890.
Litter-carriers and the like, Swinging track and boom for. H. L. Ferris. No. 1,006,837; Oct. 24; Sp. p. 5041; Gaz. vol. 171; p. 889.
Load-binder. C. Wahlgren. No. 1,008,503; Nov. 14; Sp. p. 1983; Gaz. vol. 172; p. 339.
Load-brake device. J. S. Custer and H. M. P. Murphy. No. 988,696; Apr. 4; Sp. p. 860; Gaz. vol. 165; p. 139.
Load-carrier. W. H. Niles. No. 990,378; Apr. 25; Sp. p. 4505; Gaz. vol. 165; p. 795.
Load-carrier. J. E. Porter and W. W. Thomas. No. 1,003,948; Sept. 19; Sp. p. 3853; Gaz. vol. 170; p. 676.
Load transferring and depositing apparatus. W. D. Ord. No. 990,380; Apr. 25; Sp. p. 4509; Gaz. vol. 165; p. 796.
Load-transporting device. H. O. Adam. No. 982,654; Jan. 24; Sp. p. 5430; Gaz. vol. 162; p. 937.
Loader. T. S. Hanson. No. 1,007,563; Oct. 31; Sp. p. 6628; Gaz. vol. 171; p. 1195.
Loader and carrier. F. Johnson. No. 999,227; Aug. 1; Sp. p. 69; Gaz. vol. 169; p. 14.
Loading and dumping device. T. J. Byler. No. 990,955; May 2; Sp. p. 276; Gaz. vol. 166; p. 47.
Loading and unloading apparatus. E. E. Barrett. No. 990,952; May 2; Sp. p. 269; Gaz. vol. 166; p. 46.
Loading and unloading device. R. L. Morgan. No. 982,977; Jan. 31; Sp. p. 6141; Gaz. vol. 162; p. 1073.
Loading and unloading device. G. M. La Shell and W. A. Swem. No. 989,910; Apr. 18; Sp. p. 3470; Gaz. vol. 165; p. 603.
Loading apparatus. F. J. Neere. No. 985,923; Mar. 7; Sp. p. 352; Gaz. vol. 164; p. 57.
Loading apparatus. R. C. Glise. No. 1,002,385; Sept. 5; Sp. p. 474; Gaz. vol. 170; p. 67.
Loading apparatus. F. E. Anderson. No. 1,009,033; Nov. 21; Sp. p. 3140; Gaz. vol. 172; p. 557.
Loading apparatus. M. McIntyre. No. 1,010,291; Nov. 28; Sp. p. 5799; Gaz. vol. 172; p. 1033.
Loading apparatus. P. J. Higgins. No. 1,012,133; Dec. 19; Sp. p. 3917; Gaz. vol. 173; p. 677.
Loading device. J. E. McCray. No. 987,809; Mar. 28; Sp. p. 4331; Gaz. vol. 164; p. 788.
Loading device. I. N. Myers. No. 998,378; July 18; Sp. p. 3890; Gaz. vol. 168; p. 690.
Loading device. E. C. Huff. No. 999,649; Aug. 1; Sp. p. 888; Gaz. vol. 169; p. 154.
Loading-machine. F. E. Ticknor and G. Manierre. No. 988,674; Apr. 4; Sp. p. 820; Gaz. vol. 165; p. 132.
Loading-machine. E. Smith. No. 993,418; May 30; Sp. p. 5554; Gaz. vol. 166; p. 1020.
Loading-machine. R. T. McKeen. No. 1,002,534; Sept. 5; Sp. p. 794; Gaz. vol. 170; p. 116.
Loading-machine. W. C. Zelle. No. 1,005,494; Oct. 10; Sp. p. 2008; Gaz. vol. 171; p. 353.
Loading machinery. G. H. Hulett. No. 1,010,766; Dec. 5; Sp. p. 827; Gaz. vol. 173; p. 129.
Loading mechanism. P. Reinbold. No. 1,006,790; Oct. 24; Sp. p. 4920; Gaz. vol. 171; p. 871.
Loading mechanism. G. Davis. No. 1,007,928; Nov. 7; Sp. p. 637; Gaz. vol. 172; p. 98.
Loaf-molding machine. J. B. McDuffee and J. E. Murray. No. 1,005,264; Oct. 10; Sp. p. 1508; Gaz. vol. 171; p. 273.
Location-indicating device. G. E. Hoglund. No. 990,739; Apr. 25; Sp. p. 5330; Gaz. vol. 165; p. 920.

Lock: *See* Air-lock; Alarm-lock; Automobile-lock; Automobile steering-mechanism lock; Autopiano-key lock; Bearing-casing lock; Bicycle-lock; Bolt-lock; Bolt and nut lock; Brake-lock; Can-lock; Can-closure lock; Car-door lock; Car-gate lock; Carriage-door lock; Check-lock; Coin-controlled lock; Coin-released lock; Combination-lock; Cycle-lock; Cylinder-lock; Door-lock; Drawer-lock; Electric lock; Elevator-lock; Elevator-door lock; Elevator-shaft-door lock; Exit-lock; Fire-alarm-box lock; Gun-lock; Handcuff and like lock; Hasp-lock; Hotel-lock; Indicating-lock; Key-lock; Keyless lock; Lamp-lock; Last-lock; Latch-lock; Latch and dead bolt lock; Lever-lock; Line-lock; Locker-door lock; Mortise-lock; Motor-lock; Nut-lock; Nut and bolt lock; Nut safety-lock; Oar-lock; Padlock; Permutation-lock; Piano-key lock; Pump-handle lock; Rail-joint lock; Railway-rail and nut lock; Room-lock; Rowlock; Safe-lock; Safe-deposit lock; Safety-lock; Sash-lock; Sash ventilation-lock; Seal-lock; Sewing-machine thread-lock; Signal-lock; Sliding-catch lock; Sling-lock; Socket-shell lock; Spindle-lock; Spring-lock; Steel lock; Stuffing-box lock; Suit-case lock; Switch-lock; Swivel-lock; Table-lock; Table-base lock; Telephone-lock; Time-lock; Trace-lock; Transom-lock; Trigger safety-lock; Trombone-lock; Truck-lock; Trunk-lock; Type-writer line-lock; Type-writing-machine platen-lock; Unit-lock; Vehicle-lock; Wheel-lock; Whip-lock; Whip-socket lock; Window-lock; Window safety-lock.
Lock. W. Meier. No. 981,453; Jan. 10; Sp. p. 2924; Gaz. vol. 162; p. 473.
Lock. C. C. Chapman. No. 982,125; Jan. 17; Sp. p. 4341; Gaz. vol. 162; p. 725.
Lock. P. Toth. No. 982,696; Jan. 24; Sp. p. 5521; Gaz. vol. 162; p. 951.
Lock. C. McCallum. No. 983,740; Feb. 7; Sp. p. 1030; Gaz. vol. 163; p. 165.
Lock. L. A. Maryott. No. 984,952; Feb. 21; Sp. p. 3652; Gaz. vol. 163; p. 644.
Lock. H. G. Voight. No. 986,329; Mar. 7; Sp. p. 1197; Gaz. vol. 164; p. 193.
Lock. L. R. Hibbard. No. 986,632; Mar. 14; Sp. p. 1854; Gaz. vol. 164; p. 329.
Lock. N. Triantafilu. No. 986,657; Mar. 14; Sp. p. 1919; Gaz. vol. 164; p. 338.
Lock. G. De Cesare. No. 986,808; Mar. 14; Sp. p. 2233; Gaz. vol. 164; p. 387.
Lock. J. Buday. No. 987,043; Mar. 14; Sp. p. 2687; Gaz. vol. 164; p. 465.
Lock. G. W. Duryea and C. E. Kern. No. 987,287; Mar. 21; Sp. p. 3231; Gaz. vol. 164; p. 583.
Lock. A. Wesolowski. No. 989,093; Apr. 11; Sp. p. 1689; Gaz. vol. 165; p. 294.
Lock. T. Cebulla. No. 990,225; Apr. 25; Sp. p. 4144; Gaz. vol. 165; p. 741.
Lock. H. G. Voight. No. 990,613; Apr. 25; Sp. p. 5042; Gaz. vol. 165; p. 878.
Lock. A. Arens and E. L. Teich. No. 990,795; Apr. 25; Sp. p. 5457; Gaz. vol. 165; p. 939.
Lock. S. D. Polsen. No. 991,363; May 2; Sp. p. 1152; Gaz. vol. 166; p. 192.
Lock. A. Murawski. No. 991,796; May 9; Sp. p. 2062; Gaz. vol. 166; p. 371.
Lock. W. F. Duckwitz. No. 992,552; May 16; Sp. p. 3713; Gaz. vol. 166; p. 664.
Lock. E. C. Little. No. 993,327; May 23; Sp. p. 5336; Gaz. vol. 166; p. 956.
Lock. R. Brohmann. No. 993,750; May 30; Sp. p. 6296; Gaz. vol. 166; p. 1136.
Lock. L. Fossati. No. 994,143; June 6; Sp. p. 82; Gaz. vol. 167; p. 16.
Lock. M. Wuolle. No. 994,812; June 13; Sp. p. 1557; Gaz. vol. 167; p. 285.
Lock. J. Straka and R. Lewis. No. 995,417; June 13; Sp. p. 2873; Gaz. vol. 167; p. 488.
Lock. W. E. Sparks and J. H. Shaw. No. 995,729; June 20; Sp. p. 3563; Gaz. vol. 167; p. 627.
Lock. A. C. Stevens. No. 996,159; June 27; Sp. p. 4480; Gaz. vol. 167; p. 810.
Lock. H. Matheson. No. 997,074; July 4; Sp. p. 1021; Gaz. vol. 168; p. 163.
Lock. O. Roland. No. 997,705; July 11; Sp. p. 2308; Gaz. vol. 168; p. 408.
Lock. R. Feola. No. 997,769; July 11; Sp. p. 2473; Gaz. vol. 168; p. 431.
Lock. J. Slivenick. No. 999,127; July 25; Sp. p. 5522; Gaz. vol. 168; p. 981.
Lock. X. F. Swiderski. No. 999,907; Aug. 8; Sp. p. 1434; Gaz. vol. 169; p. 272.
Lock. A. Womack. No. 999,938; Aug. 8; Sp. p. 1492; Gaz. vol. 169; p. 283.
Lock. J. C. Lodor. No. 1,000,098; Aug. 8; Sp. p. 1867; Gaz. vol. 169; p. 337.
Lock. D. S. Sensenig. No. 1,000,444; Aug. 15; Sp. p. 2629; Gaz. vol. 169; p. 488.
Lock. F. E. Bennett. No. 1,000,889; Aug. 15; Sp. p. 3600; Gaz. vol. 169; p. 647.
Lock. G. F. Reed. No. 1,000,946; Aug. 15; Sp. p. 3717; Gaz. vol. 169; p. 666.
Lock. A. Voigt. No. 1,001,100; Aug. 22; Sp. p. 4118; Gaz. vol. 169; p. 755.

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Lock. Y. Q. Caldwell. No. 1,003,331; Sept. 12; Sp. p. 2510; Gaz. vol. 170; p. 432.
Lock. H. G. Voight. No. 1,003,552; Sept. 19; Sp. p. 2963; Gaz. vol. 170; p. 540.
Lock. J. Walker, Jr. No. 1,003,554; Sept. 19; Sp. p. 2966; Gaz. vol. 170; p. 541.
Lock. K. Teurich. No. 1,003,823; Sept. 19; Sp. p. 3551; Gaz. vol. 170; p. 632.
Lock. F. Gadecki. No. 1,004,407; Sept. 26; Sp. p. 4868; Gaz. vol. 170; p. 860.
Lock. H. G. Voight. No. 1,004,506; Sept. 26; Sp. p. 5084; Gaz. vol. 170; p. 895.
Lock. R. Russell. No. 1,004,690; Oct. 3; Sp. p. 301; Gaz. vol. 171; p. 51.
Lock. W. L. Selleck. No. 1,004,698; Oct. 3; Sp. p. 315; Gaz. vol. 171; p. 54.
Lock. R. I. Patterson. No. 1,005,295; Oct. 10; Sp. p. 1575; Gaz. vol. 171; p. 284.
Lock. B. W. Wolfe. No. 1,006,816; Oct. 24; Sp. p. 4979; Gaz. vol. 171; p. 881.
Lock. J. Dunai. No. 1,006,922; Oct. 24; Sp. p. 5221; Gaz. vol. 171; p. 918.
Lock. M. G. Jadronja. No. 1,007,447; Oct. 31; Sp. p. 6364; Gaz. vol. 171; p. 1155.
Lock. A. Arens and E. L. Teich. No. 1,007,627; Oct. 31; Sp. p. 6761; Gaz. vol. 171; p. 1216.
Lock. C. E. C. Edey. No. 1,007,649; Oct. 31; Sp. p. 6807; Gaz. vol. 171; p. 1223.
Lock. J. R. Fletcher. No. 1,008,533; Nov. 14; Sp. p. 2052; Gaz. vol. 172; p. 350.
Lock. W. Anderson. No. 1,008,883; Nov. 14; Sp. p. 2802; Gaz. vol. 172; p. 471.
Lock. H. G. Voight and N. B. Hurd. No. 1,009,202; Nov. 21; Sp. p. 3487; Gaz. vol. 172; p. 616.
Lock. E. R. Springer. No. 1,009,698; Nov. 21; Sp. p. 4567; Gaz. vol. 172; p. 787.
Lock. C. E. Brede. No. 1,009,891; Nov. 28; Sp. p. 4976; Gaz. vol. 172; p. 899.
Lock. J. Tolnay. No. 1,010,094; Nov. 28; Sp. p. 5404; Gaz. vol. 172; p. 968.
Lock. A. Arens and E. L. Teich. No. 1,010,341; Nov. 28; Sp. p. 5900; Gaz. vol. 172; p. 1050.
Lock. P. Corbin and E. L. Teich. No. 1,010,727; Dec. 5; Sp. p. 727; Gaz. vol. 173; p. 115.
Lock. D. N. Weathers. No. 1,010,992; Dec. 5; Sp. p. 1302; Gaz. vol. 173; p. 207.
Lock. P. Szluka. No. 1,012,292; Dec. 19; Sp. p. 4259; Gaz. vol. 173; p. 731.
Lock. J. Dunai. No. 1,012,337; Dec. 19; Sp. p. 4357; Gaz. vol. 173; p. 746.
Lock and fastening. J. S. Campbell. No. 989,484; Apr. 11; Sp. p. 2512; Gaz. vol. 165; p. 425.
Lock and key. A. A. Olson and G. H. Blood. No. 1,011,479; Dec. 12; Sp. p. 2424; Gaz. vol. 173; p. 414.
Lock and latch. A. Phillips. No. 982,863; Jan. 31; Sp. p. 5909; Gaz. vol. 162; p. 1037.
Lock and latch. A. J. Thornley. No. 987,655; Mar. 21; Sp. p. 3973; Gaz. vol. 164; p. 708.
Lock and latch, Combined. E. Granger. No. 980,630; Jan. 3; Sp. p. 967; Gaz. vol. 162; p. 158.
Lock and latch, Combined. H. Davis. No. 981,843; Jan. 17; Sp. p. 3719; Gaz. vol. 162; p. 629.
Lock and latch handle. C. W. Walters. No. 980,714; Jan. 3; Sp. p. 1163; Gaz vol. 162; p. 185.
Lock and night-latch mechanism. A. Arens and E. L. Teich. No. 980,180; Jan. 3; Sp. p. 3; Gaz. vol. 162; p. 3.
Lock and retaining device, Combined. M. Jadronja. No. 1,000,268; Aug. 8; Sp. p. 2227; Gaz. vol. 169; p. 396.
Lock-bolt, Safety. H. T. Battin. No. 986,539; Mar. 14; Sp. p. 1658; Gaz. vol. 164; p. 295.
Lock-box, Siftless. J. W. McKinnon. No. 1,005,265; Oct. 10; Sp. p. 1511; Gaz. vol. 171; p. 273.
Lock-casing. E. W. Bassick and C. S. Barnard. No. 1,004,729; Oct. 3; Sp. p. 394; Gaz. vol. 171; p. 66.
Lock-casing construction, Pin-cylinder-. H. C. Voight. No. 1,003,957; Sept. 19; Sp. p. 3877; Gaz. vol. 170; p. 680.
Lock construction, Cylinder-. H. G. Voight. No. 1,002,098; Aug. 29; Sp. p. 6182; Gaz. vol. 169; p. 1118.
Lock-cylinder control, Hotel-. A. Arens and E. L. Teich. No. 1,009,624; Nov. 21; Sp. p. 4425; Gaz. vol. 172; p. 762.
Lock-ferrule. C. Robinson and J. W. Counselman. No. 1,005,313; Oct. 10; Sp. p. 1627; Gaz. vol. 171; p. 291.
Lock for bag-frames and the like. F. J. Lau. No. 1,005,850; Oct. 17; Sp. p. 2808; Gaz. vol. 171; p. 511.
Lock-guard. T. J. McDonnell. No. 1,001,157; Aug. 22; Sp. p. 4220; Gaz. vol. 169; p. 772.
Lock-guard. A. J. Mize. No. 1,009,548; Nov. 21; Sp. p. 4292; Gaz. vol. 172; p. 739.
Lock-indicator. H. G. Voight. No. 986,659; Mar. 14; Sp. p. 1924; Gaz. vol. 164; p. 339.
Lock joint or device, Combination. E. W. Carleton. No. 998,839; July 25; Sp. p. 4900; Gaz. vol. 168; p. 882.
Lock-key. H. Alsterberg. No. 1,004,333; Sept. 26; Sp. p. 4724; Gaz. vol. 170; p. 836.
Lock-operating apparatus, Door-. A. Magnuson. No. 998,624; July 25; Sp. p. 4403; Gaz. vol. 168; p. 806.
Lock-ring for rolls. A. Grossmann. No. 994,152; June 6; Sp. p. 96; Gaz. vol. 167; p. 19.
Lock-seam tube. P. H. Friel. No. 993,978; May 30; Sp. p. 6731; Gaz. vol. 166; p. 1211.
Lock-setting gage. H. L. Cooper. No. 996,597; June 27; Sp. p. 5477; Gaz. vol. 167; p. 958.
Lock-strike. J. Deininger. No. 1,003,713; Sept. 19; Sp. p. 3336; Gaz. vol. 170; p. 597.
Lock-strike. N. B. Hurd. No. 1,005,841; Oct. 17; Sp. p. 2782; Gaz. vol. 171; p. 507.
Lock-switch. T. D. Robinson. No. 1,006,981; Oct. 24; Sp. p. 5338; Gaz. vol. 171; p. 937.
Lock-washer. C. F. Beers. No. 985,772; Mar. 7; Sp. p. 8; Gaz. vol. 164; p. 4.
Lock-washer. G. S. Harris. No. 1,003,602; Sept. 19; Sp. p. 3093; Gaz. vol. 170; p. 558.
Lock-washer. H. H. Smith. No. 1,008,084; Nov. 7; Sp. p. 936; Gaz. vol. 172; p. 151.
Locks, Making tumblers for combination-. R. C. Lewis. No. 985,609; Feb. 28; Sp. p. 5115; Gaz. vol. 163; p. 904.
Locks, Strike-plate for door-. W. Samuelson. No. 1,001,082; Aug. 22; Sp. p. 4084; Gaz. vol. 169; p. 749.
Locker-door. A. J. Thornley. No. 1,010,326; Nov. 28; Sp. p. 5864; Gaz. vol. 172; p. 1044.
Locker-door lock. D. Churchill. No. 998,871; July 25; Sp. p. 4981; Gaz. vol. 168; p. 894.
Locking-bolt. H. C. Shaaber and W. M. Acker. No. 998,860; July 25; Sp. p. 4951; Gaz. vol. 168; p. 890.
Locking device. J. E. Lagergren. No. 998,852; July 25; Sp. p. 4931; Gaz. vol. 168; p. 887.
Locking device. G. E. Palmer. No. 999,850; Aug. 8; Sp. p. 1299; Gaz. vol. 169; p. 252.
Locking device. H. I. Owen. No. 1,000,936; Aug. 15; Sp. p. 3700; Gaz. vol. 169; p. 663.
Locking device. A. Moebes, Jr., and H. T. Moore. No. 1,011,637; Dec. 12; Sp. p. 2826; Gaz. vol. 173; p. 471.
Locking device, Auxiliary. C. E. Blechschmidt. No. 981,522; Jan. 10; Sp. p. 3045; Gaz. vol. 162; p. 496.
Locking device for milk-bottles and other objects. L. E. Herron; No. 997,816; July 11; Sp. p. 2610; Gaz. vol. 168; p. 448.
Locking device for shiftable members. R. Milne. No. 983,745; Feb. 7; Sp. p. 1040; Gaz. vol. 163; p. 166.
Locking device, Key-. C. A. Myberg. No. 983,749; Feb. 7; Sp. p. 1057; Gaz. vol. 163; p. 168.
Locking device, Key-. R. Reiss. No. 995,094; June 13; Sp. p. 2198; Gaz. vol. 167; p. 381.
Locking device, Lever-. A. E. Witham. No. 980,467; Jan. 3; Sp. p. 621; Gaz. vol. 162; p. 102.
Locking-key. F. R. McBerty. No. 987,637; Mar. 21; Sp. p. 3939; Gaz. vol. 164; p. 701.
Locking means, Closure-. C. J. Ljunggren. No. 991,448; May 2; Sp. p. 1320; Gaz. vol. 166; p. 220.
Locking means, Closure-. C. J. Ljunggren. No. 994,013; May 30; Sp. p. 6818; Gaz. vol. 166; p. 1223.
Locking means, Closure-. C. J. Ljunggren. No. 1,006,242; Oct. 17; Sp. p. 3698; Gaz. vol. 171; p. 650.
Locking mechanism. P. Stokes. No. 1,007,251; Oct. 31; Sp. p. 5954; Gaz. vol. 171; p. 1086.
Locking mechanism, Automatic. J. W. Yates. No. 997,532; July 11; Sp. p. 1937; Gaz. vol. 168; p. 347.
Locking mechanism for safes, strong-rooms, &c. F. Titterton. No. 992,296; May 16; Sp. p. 3147; Gaz. vol. 166; p. 573.
Locket. J. C. Daniels. No. 981,917; Jan. 17; Sp. p. 3898; Gaz. vol. 162; p. 655.
Locket. L. E. Sadler. No. 982,221; Jan. 17; Sp. p. 4517; Gaz. vol. 162; p. 758.
Locket. J. C. Daniels. No. 998,160; July 18; Sp. p. 3379; Gaz. vol. 168; p. 610.
Locket-purse sash-pin. L. D. Bergeron. No. 999,692; Aug. 1; Sp. p. 973; Gaz. vol. 169; p. 170.
Locomotive. G. H. Emerson. No. 981,401; Jan 10; Sp. p. 2807; Gaz. vol. 162; p. 454.
Locomotive. C. H. Jenkins. No. 985,744; Feb. 28; Sp. p. 5416; Gaz. vol. 163; p. 950.
Locomotive. J. Walton. No. 993,924; May 30; Sp. p. 6616; Gaz. vol. 166; p. 1192.
Locomotive. G. B. Rait. No. 996,031; June 20; Sp. p. 4207; Gaz. vol. 167; p. 731.
Locomotive. W. A. Austin. No. 998,321; July 18; Sp. p. 3771; Gaz. vol. 168; p. 670.
Locomotive. W. F. Buck. No. 1,000,489; Aug. 15; Sp. p. 2723; Gaz. vol. 169; p. 505.
Locomotive. A. Stucki. No. 1,001,703; Aug. 29; Sp. p. 5351; Gaz. vol. 169; p. 987.
Locomotive. A. F. Batchelder. No. 1,008,579; Nov. 14; Sp. p. 2160; Gaz. vol. 172; p. 368.
Locomotive ash-pan. J. L. Hills. No. 980,258; Jan. 3; Sp. p. 149; Gaz. vol. 162; p. 29.
Locomotive ash-pan. H. A. Hoke. No. 980,870; Jan. 3; Sp. p. 1484; Gaz. vol. 162; p. 238.
Locomotive ash-pan. L. C. Mooney. No. 989,862; Apr. 18; Sp. p. 3367; Gaz. vol. 165; p. 587.
Locomotive ash-pan. W. E. Wine. No. 991,257; May 2; Sp. p. 914; Gaz. vol. 166; p. 155.
Locomotive ash-pan. W. H. Cheney. No. 994,817; June 13; Sp. p. 1570; Gaz. vol. 167; p. 287.
Locomotive ash-pan. G. Maurer. No. 995,698; June 20; Sp. p. 3495; Gaz. vol. 167; p. 616.
Locomotive ash-pan. I. A. Davis. No. 1,003,992; Sept. 26; Sp. p. 3966; Gaz. vol. 170; p. 718.

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Locomotive ash-pan. L. S. Moore. No. 1,012,215; Dec. 19; Sp. p. 4103; Gaz. vol. 173; p. 704.
Locomotive-ash-pan-cleaning device. N. Olson. No. 987,591; Mar. 21; Sp. p. 3847; Gaz. vol. 164; p. 685.
Locomotive ash-pans, Dumping-bottom for. O. Golden. No. 1,012,074; Dec. 19; Sp. p. 3782; Gaz. vol. 173; p. 655.
Locomotive bearing-boxes, Adjustment device for. F. A. Dieckman. No. 1,012,610; Dec. 26; Sp. p. 4905; Gaz. vol. 173; p. 883.
Locomotive-boiler. J. M. McClellon. (Reissue.) No. 13,211; Feb. 21; Sp. p. 3973; Gaz. vol. 163; p. 703.
Locomotive-cabs, &c., Guard or protector for. T. J. Quirk. No. 1,004,077; Sept. 26; Sp. p. 4196; Gaz. vol. 170; p. 749.
Locomotive center-pin. H. E. Warner. No. 992,619; May 16; Sp. p. 3850; Gaz. vol. 166; p. 686.
Locomotive-coupling. W. D. Tardif. No. 1,007,818; Nov. 7; Sp. p. 384; Gaz. vol. 172; p. 60.
Locomotive, Electric. N. W. Storer. No. 981,713; Jan. 17; Sp. p. 3434; Gaz. vol. 162; p. 581.
Locomotive, Electric. H. G. Berentsen. No. 981,741; Jan. 17; Sp. p. 3488; Gaz. vol. 162; p. 591.
Locomotive, Electric. W. Schaake. No. 981,799; Jan. 17; Sp. p. 3604; Gaz. vol. 162; p. 612.
Locomotive, Electric. W. Cooper. No. 985,400; Feb. 28; Sp. p. 4627; Gaz. vol. 163; p. 830.
Locomotive, Electric. A. F. Batchelder. No. 988,067; Mar. 28; Sp. p. 4943; Gaz. vol. 164; p. 878.
Locomotive, Electric. W. Cooper. No. 990,958; May 2; Sp. p. 282; Gaz. vol. 166; p. 49.
Locomotive, Electric. N. W. Storer. No. 991,038; May 2; Sp. p. 438; Gaz. vol. 166; p. 75.
Locomotive, Electric. A. F. Batchelder. No. 1,008,580; Nov. 14; Sp. p. 2163; Gaz. vol. 172; p. 368.
Locomotive, Electric. A. F. Batchelder. No. 1,008,582; Nov. 14; Sp. p. 2165; Gaz. vol. 172; p. 369.
Locomotive, Electric. A. F. Batchelder. No. 1,008,937; Nov. 14; Sp. p. 2921; Gaz. vol. 172; p. 488.
Locomotive-engine. F. J. Cole and F. F. Scoville. No. 991,139; May 2; Sp. p. 661; Gaz. vol. 166; p. 113.
Locomotive-engine, Four-cylinder. J. Stumpf. No. 980,572; Jan. 3; Sp. p. 865; Gaz. vol. 162; p. 138.
Locomotive exhaust-nozzle. J. L. and T. Galloway. No. 1,004,770; Oct. 3; Sp. p. 483; Gaz. vol. 171; p. 79.
Locomotive-furnace device. J. Bolgiano. No. 1,003,228; Sept. 12; Sp. p. 2305; Gaz. vol. 170; p. 395.
Locomotive-grate shaker. A. G. Elvin. No. 998,882; July 25; Sp. p. 5008; Gaz. vol. 168; p. 898.
Locomotive, Haulage-. J. M. Roan. No. 980,338; Jan. 3; Sp. p. 315; Gaz. vol. 162; p. 57.
Locomotive, Hot-air. S. J. Webb. No. 997,878; July 11; Sp. p. 2731; Gaz. vol. 168; p. 468.
Locomotive-pedestal. G. McCormick. No. 980,545; Jan. 3; Sp. p. 801; Gaz. vol. 162; p. 129.
Locomotive running-gear, Electric-. G. H. Downs. No. 1,006,731; Oct. 24; Sp. p. 4766; Gaz. vol. 171; p. 849.
Locomotive smoke-boxes, Adjustable cleaner and smoke-consumer for. W. E. Cooney. No. 1,004,851; Oct. 3; Sp. p. 658; Gaz. vol. 171; p. 107.
Locomotive smoke-stack. A. F. Priest. No. 995,092; June 13; Sp. p. 2195; Gaz. vol. 167; p. 381.
Locomotive-superheater. A. W. Anderson. No. 1,010,107; Nov. 28; Sp. p. 5427; Gaz. vol. 172; p. 973.
Locomotive-tender. L. W. Galloway. No. 989,595; Apr. 18; Sp. p. 2808; Gaz. vol. 165; p. 496.
Locomotive-tender water-supply device. T. W. Flynn. No. 1,009,733; Nov. 28; Sp. p. 4655; Gaz. vol. 172; p. 845.
Locomotive track-sander. J. H. Hanlon. No. 986,168; Mar. 7; Sp. p. 857; Gaz. vol. 164; p. 138.
Locomotive track-sander. R. Kett. No. 1,004,177; Sept. 26; Sp. p. 4428; Gaz. vol. 170; p. 783.
Locomotives and other railway-vehicles, Electric-motor drive for. N. W. Storer. No. 993,568; May 30; Sp. p. 5880; Gaz. vol. 166; p. 1071.
Locomotives, Automatic truck-cellar for. W. McIntosh. No. 1,011,983; Dec. 19; Sp. p. 3565; Gaz. vol. 173; p. 623.
Locomotives, Driving means of electric. G. H. Downs. No. 1,006,732; Oct. 24; Sp. p. 4769; Gaz. vol. 171; p. 849.
Locomotives, Rail-flushing mechanism for. J. W. Currie. No. 984,510; Feb. 14; Sp. p. 2711; Gaz. vol. 163; p. 455.
Locomotives, Reflecting-mirror for. M. E. Scarborough. No. 1,010,690; Dec. 5; Sp. p. 632; Gaz. vol. 173; p. 101.
Log-bundler. F. Stuart. No. 998,651; July 25; Sp. p. 4467; Gaz. vol. 168; p. 816.
Log-cradle. B. H. Vollans. No. 999,277; Aug. 1; Sp. p. 159; Gaz. vol. 169; p. 30.
Log-dam. W. J. Griffith. No. 990,978; May 2; Sp. p. 317; Gaz. vol. 166; p. 55.
Log-debarking apparatus. G. Schenck, Jr. No. 987,828; Mar. 28; Sp. p. 4369; Gaz. vol. 164; p. 795.
Log-loader for wagons. G. Stubblefield. No. 990,407; Apr. 25; Sp. p. 4582; Gaz. vol. 165; p. 807.
Log-loading machine. J. R. McGiffert. No. 1,009,542; Nov. 21; Sp. p. 4276; Gaz. vol. 172; p. 737.
Log-rack. O. F. Reeves. No. 1,000,441; Aug. 15; Sp. p. 2618; Gaz. vol. 169; p. 487.
Log skidding and loading apparatus. C. W. Russell. No. 985,942; Mar. 7; Sp. p. 398; Gaz. vol. 164; p. 63.
Logging apparatus, Yieldable sheave-support for. C. W. Russell. No. 991,650; May 9; Sp. p. 1769; Gaz. vol. 166; p. 324.
Logging-bunk. J. N. Peterson. No. 995,633; June 20; Sp. p. 3364; Gaz. vol. 167; p. 593.
Logging device. W. H. Porter. No. 989,413; Apr. 11; Sp. p. 2379; Gaz. vol. 165; p. 401.
Logging-hook. H. L. Turney. No. 1,005,370; Oct. 10; Sp. p. 1749; Gaz. vol. 171; p. 312.
Logging sheave-block. H. Wilson. No. 984,987; Feb. 21; Sp. p. 3706; Gaz. vol. 163; p. 655.
Loom. E. Gagnon. No. 982,204; Jan. 17; Sp. p. 4477; Gaz. vol. 162; p. 751.
Loom. I. L. Peterson. No. 982,862; Jan. 31; Sp. p. 5906; Gaz. vol. 162; p. 1037.
Loom. L. Harrington. No. 983,550; Feb. 7; Sp. p. 639; Gaz. vol. 163; p. 100.
Loom. W. J. Lutton. No. 986,073; Mar. 7; Sp. p. 679; Gaz. vol. 164; p. 108.
Loom. A. Handschin and H. Kuny. No. 991,297; May 2; Sp. p. 1009; Gaz. vol. 166; p. 170.
Loom. H. Côté and R. C. Snow. No. 995,954; June 20; Sp. p. 4054; Gaz. vol. 167; p. 705.
Loom. E. S. Stimpson. No. 999,064; July 25; Sp. p. 5406; Gaz. vol. 168; p. 963.
Loom. J. A. Bidwell. No. 1,002,122; Aug. 29; Sp. p. 6223; Gaz. vol. 169; p. 1125.
Loom. H. Lindsay. No. 1,002,163; Aug. 29; Sp. p. 6298; Gaz. vol. 169; p. 1138.
Loom. G. S. Pruden. No. 1,003,202; Sept. 12; Sp. p. 2238; Gaz. vol. 170; p. 385.
Loom. J. W. Kirkus. No. 1,006,228; Oct. 17; Sp. p. 3660; Gaz. vol. 171; p. 644.
Loom. F. J. Bosset and P. Cachard. No. 1,009,041; Nov. 21; Sp. p. 3156; Gaz. vol. 172; p. 560.
Loom adjustable harness-link. F. Lacey. No. 1,009,533; Nov. 21; Sp. p. 4262; Gaz. vol. 172; p. 734.
Loom attachment. S. Kendrick. No. 981,656; Jan. 17; Sp. p. 3308; Gaz. vol. 162; p. 562.
Loom attachment. V. H. Jennings. No. 1,006,559; Oct. 24; Sp. p. 4439; Gaz. vol. 171; p. 792.
Loom-beam. F. Mossberg. No. 1,004,584; Oct. 3; Sp. p. 73; Gaz. vol. 171; p. 14.
Loom-beams, Supporting means for. A. E. Rhoades. No. 981,944; Jan. 17; Sp. p. 3979; Gaz. vol. 162; p. 664.
Loom box-motion. A. R. Patten. No. 996,669; July 4; Sp. p. 148; Gaz. vol. 168; p. 26.
Loom, Circular. C. O. Berg. No. 1,000,576; Aug. 15; Sp. p. 2932; Gaz. vol. 169; p. 537.
Loom compensating head-gear. S. S. Jackson. No. 986,634; Mar. 14; Sp. p. 1859; Gaz. vol. 164; p. 330.
Loom controlling mechanism. H. R. Merriam. No. 981,299; Jan. 10; Sp. p. 2574; Gaz. vol. 162; p. 420.
Loom controlling mechanism. H. P. Merriam. No. 1,000,746; Aug. 15; Sp. p. 3298; Gaz. vol. 169; p. 596.
Loom filling-exhaustion-indicating mechanism. A. E. Rhoades. No. 981,112; Jan. 10; Sp. p. 2137; Gaz. vol. 162; p. 353.
Loom filling-exhaustion-indicating mechanism. A. E. Rhoades. No. 992,988; May 23; Sp. p. 4632; Gaz. vol. 166; p. 845.
Loom filling-replenishing mechanism. H. W. Smith. No. 1,003,528; Sept. 19; Sp. p. 2911; Gaz. vol. 170; p. 532.
Loom filling-severing device. H. Lussier. No. 1,012,875; Dec. 26; Sp. p. 5527; Gaz. vol. 173; p. 975.
Loom for cross or gauze weaving. H. M. Marsh. No. 994,018; May 30; Sp. p. 6827; Gaz. vol. 166; p. 1225.
Loom for weaving, Weft-replenishing. J. W. Cook. No. 993,349; May 30; Sp. p. 5396; Gaz. vol. 166; p. 997.
Loom-gage. H. W. Wilke. No. 1,003,841; Sept. 19; Sp. p. 3587; Gaz. vol. 170; p. 638.
Loom, Hand-. G. L. Reed. No. 1,004,079; Sept. 26; Sp. p. 4200; Gaz. vol. 170; p. 750.
Loom harness-frame. H. Côté. No. 1,009,050; Nov. 21; Sp. p. 3174; Gaz. vol. 172; p. 563.
Loom harness mechanism. G. Hetherington. No. 1,003,742; Sept. 19; Sp. p. 3399; Gaz. vol. 170; p. 606.
Loom, Jacquard. J. Jagger. No. 981,766; Jan. 17; Sp. p. 3544; Gaz. vol. 162; p. 601.
Loom let-off mechanism. E. H. Ryon. No. 993,718; May 30; Sp. p. 6221; Gaz. vol. 166; p. 1125.
Loom let-off mechanism, Narrow-ware-. F. Benz, Jr. No. 1,001,804; Aug. 29; Sp. p. 5568; Gaz. vol. 169; p. 1021.
Loom, Narrow-ware. F. Benz, Jr. No. 982,464; Jan. 24; Sp. p. 5068; Gaz. vol. 162; p. 875.
Loom, Narrow-ware. E. R. Holmes. No. 993,685; May 30; Sp. p. 6151; Gaz. vol. 166; p. 1113.
Loom, Narrow-ware. M. O. Steere. No. 998,808; July 25; Sp. p. 4824; Gaz. vol. 168; p. 872.
Loom, Needle-. C. J. Nauen. No. 988,589; Apr. 4; Sp. p. 651; Gaz. vol. 165; p. 104.
Loom, Needle-. F. M. Clark. No. 1,009,472; Nov. 21; Sp. p. 4130; Gaz. vol. 172; p. 713.
Loom pattern mechanism, Carpet-. C. Hugo. No. 981,762; Jan. 17; Sp. p. 3535; Gaz. vol. 162; p. 599.
Loom-picker. W. Wattie. No. 994,807; June 13; Sp. p. 1550; Gaz. vol. 167; p. 284.
Loom picker-check. W. M. Barber. No. 981,050; Jan. 10; Sp. p. 2006; Gaz. vol. 162; p. 331.
Loom picker-check. S. Wilkinson. No. 987,844; Mar. 28; Sp. p. 4402; Gaz. vol. 164; p. 801.

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Loom, Power-. F. Nitschelm. No. 996,423; June 27; Sp. p. 5141; Gaz. vol. 167; p. 901.
Loom protector mechanism. A. J. Chevrette. No. 987,110; Mar. 21; Sp. p. 2814; Gaz. vol. 164; p. 518.
Loom-reed. F. C. and M. C. Comellas. No. 1,002,808; Sept. 5; Sp. p. 1382; Gaz. vol. 170; p. 210.
Loom, Rug or carpet. C. Bartlett. No. 1,006,897; Oct. 24; Sp. p. 5177; Gaz. vol. 171; p. 910.
Loom shedding mechanism. E. H. Ryon. No. 989,061; Apr. 11; Sp. p. 1623; Gaz. vol. 165; p. 284.
Loom shedding-motion. S. Arienta. No. 996,193; June 27; Sp. p. 4609; Gaz. vol. 167; p. 822.
Loom-shuttle. J. Rüegg. No. 984,971; Feb. 21; Sp. p. 3681; Gaz. vol. 163; p. 650.
Loom-shuttle. W. H. Wilson. No. 987,524; Mar. 21; Sp. p. 3707; Gaz. vol. 164; p. 662.
Loom-shuttle. J. F. Dustin. No. 994,578; June 6; Sp. p. 992; Gaz. vol. 167; p. 165.
Loom-shuttle. E. S. Stimpson. No. 996,296; June 27; Sp. p. 4825; Gaz. vol. 167; p. 855.
Loom-shuttle. M. Goulet. No. 999,447; Aug. 1; Sp. p. 505; Gaz. vol. 169; p. 88.
Loom-shuttle, Automatically-threading. I. Snow. No. 1,006,801; Oct. 24; Sp. p. 4942; Gaz. vol. 171; p. 875.
Loom shuttle-check. J. J. Grogan and O. E. Johnson. No. 985,585; Feb. 28; Sp. p. 5069; Gaz. vol. 163; p. 895.
Loom shuttle-check. F. Nitschelm. No. 996,508; June 27; Sp. p. 5294; Gaz. vol. 167; p. 929.
Loom shuttle-check. J. B. Cloutier. No. 1,005,159; Oct. 10; Sp. p. 1254; Gaz. vol. 171; p. 233.
Loom shuttle-controlling means, Automatic. M. Prussak and C. Pfeiffer. No. 991,169; May 2; Sp. p. 729; Gaz. vol. 166; p. 123.
Loom shuttle-motion. M. O. Steere. No. 991,385; May 2; Sp. p. 1195; Gaz. vol. 166; p. 199.
Loom shuttle-motion. M. J. V. Yost. No. 994,295; June 6; Sp. p. 393; Gaz. vol. 167; p. 67.
Loom shuttle-tension mechanism. M. Camagni. No. 990,334; Apr. 25; Sp. p. 4409; Gaz. vol. 165; p. 780.
Loom shuttle, Weaving-. M. and R. Lemarchand and V. Montet. No. 1,008,832; Nov. 14; Sp. p. 2706; Gaz. vol. 172; p. 455.
Loom-shuttles, Automatic refilling device for. J. Gabler. No. 1,005,017; Oct. 3; Sp. p. 983; Gaz. vol. 171; p. 164.
Loom stop-motion. W. Pollock and E. S. Ling. No. 986,215; Mar. 7; Sp. p. 950; Gaz. vol. 164; p. 155.
Loom stop-motion, Velvet-. J. B. Derfinak. No. 983,030; Jan. 31; Sp. p. 6277; Gaz. vol. 162; p. 1092.
Loom-stopping device. D. Schatz. No. 1,003,209; Sept. 12; Sp. p. 2262; Gaz. vol. 170; p. 388.
Loom take-up. W. S. Southwick. No. 1,006,015; Oct. 17; Sp. p. 3167; Gaz. vol. 171; p. 568.
Loom take-up mechanism. A. E. Rhoades. No. 982,390; Jan. 24; Sp. p. 4893; Gaz. vol. 162; p. 848.
Loom-temple. N. Demers. No. 995,333; June 13; Sp. p. 2678; Gaz. vol. 167; p. 459.
Loom thread-cutting temple. C. W. Megginson. No. 1,011,220; Dec. 12; Sp. p. 1847; Gaz. vol. 173; p. 320.
Loom thread-parting mechanism. E. Cunniff. No. 991,484; May 9; Sp. p. 1401; Gaz. vol. 166; p. 264.
Loom thread-parting mechanism. A. E. Rhoades. No. 1,009,178; Nov. 21; Sp. p. 3428; Gaz. vol. 172; p. 607.
Loom warp stop-motion. M. L. Stone. No. 996,297; June 27; Sp. p. 4827; Gaz. vol. 167; p. 855.
Loom warp stop-motion. E. D. Osgood and A. E. Rhoades. No. 1,011,237; Dec. 12; Sp. p. 1885; Gaz. vol. 173; p. 326.
Loom, Weaving-. G. E. Levy. No. 987,086; Mar. 14; Sp. p. 2768; Gaz. vol. 164; p. 479.
Loom weft-parter. S. S. Jackson. No. 981,859; Jan. 17; Sp. p. 3751; Gaz. vol. 162; p. 634.
Loom, Weft-replenishing. E. H. Ryon. No. 1,005,322; Oct. 10; Sp. p. 1643; Gaz. vol. 171; p. 294.
Loom weft-replenishing device, Weaving-. A. Regal. No. 1,007,143; Oct. 31; Sp. p. 5715; Gaz. vol. 171; p. 1048.
Looms, Adjustable holder for insulating-. E. H. Kruse. No. 989,853; Apr. 18; Sp. p. 3353; Gaz. vol. 165; p. 585.
Looms and similar textile-machines, Wage-registering apparatus for mechanical. S. Marschik. No. 1,002,720; Sept. 5; Sp. p. 1205; Gaz. vol. 170; p. 180.
Looms, Automatic reshuttling apparatus for. W. A. and E. Mather. No. 1,011,466; Dec. 12; Sp. p. 2395; Gaz. vol. 173; p. 409.
Looms, Automatic spool-clearing apparatus for weft-replenishing. A. G. Koechlin. No. 1,011,065; Dec. 5; Sp. p. 1452; Gaz. vol. 173; p. 230.
Looms, Automatic weft-spool-changing apparatus for power-. A. G. Koechlin. No. 1,011,969; Dec. 19; Sp. p. 3534; Gaz. vol. 173; p. 618.
Looms, Batten for narrow-ware. J. Frank. No. 980,236; Jan. 3; Sp. p. 113; Gaz. vol. 162; p. 22.
Looms, Bobbin-stripper for filling-replenishing. S. N. Paquette. No. 982,741; Jan. 24; Sp. p. 5619; Gaz. vol. 162; p. 965.
Looms, Center-fork stop-motion for. H. Côté. No. 994,820; June 13; Sp. p. 1575; Gaz. vol. 167; p. 288.
Looms, Device for securing bobbins to shuttles for weaving-. H. Dansette and A. Dazin. No. 1,006,441; Oct. 17; Sp. p. 4124; Gaz. vol. 171; p. 718.
Looms, Driving and lay motion for. A. Mann. No. 1,006,110; Oct. 17; Sp. p. 3366; Gaz. vol. 171; p. 601.
Looms, Electromechanical stopping mechanism for. J. F. Dustin. No. 988,986; Apr. 11; Sp. p. 1462; Gaz. vol. 165; p. 257.
Looms, Evener-frame for tuft-fabric. J. A. Clark. No. 986,441; Mar. 14; Sp. p. 1451; Gaz. vol. 164; p. 262.
Looms, Filling-carrier for automatic feeler-. A. E. Rhoades. No. 992,989; May 23; Sp. p. 4636; Gaz. vol. 166; p. 846.
Looms, Filling detector or feeler for weft-replenishing. E. H. Ryon. No. 989,429; Apr. 11; Sp. p. 2412; Gaz. vol. 165; p. 407.
Looms, Filling-feeder for automatic filling-replenishing. A. E. Rhoades. No. 995,290; June 13; Sp. p. 2562; Gaz. vol. 167; p. 444.
Looms, Filling-thread-cutting mechanism for weft-replenishing. E. H. Ryon. No. 1,009,997; Nov. 28; Sp. p. 5200; Gaz. vol, 172; p. 934.
Looms for weaving tufted fabrics, Tuft-yarn-carrying spools of. T. Cooper. No. 1,005,603; Oct. 10; Sp. p. 2286; Gaz. vol. 171; p. 393.
Looms, Fork-grid clearer for. S. D. Eubanks. No. 993,443; May 30; Sp. p. 5606; Gaz. vol. 166; p. 1028.
Looms, Glass-bar-bracket mechanism for. F. Benz, Jr. No. 983,020; Jan. 31; Sp. p. 6255; Gaz. vol. 162; p. 1088.
Looms, Holding and releasing device for bobbins in magazines of weft-replenishing. E. H. Ryon. No. 1,005,321; Oct. 10; Sp. p. 1640; Gaz. vol. 171; p. 294.
Looms, Hopper for filling-replenishing. J. Northrop. No. 987,816; Mar. 28; Sp. p. 4343; Gaz. vol. 164; p. 791.
Looms, Lathe-motion for. A. Insinger. No. 985,594; Feb. 28; Sp. p. 5085; Gaz. vol. 163; p. 899.
Looms, Lay structure for wire-. W. C. Brown. No. 980,591; Jan. 3; Sp. p. 896; Gaz. vol. 162; p. 144.
Looms, Machine for straightening tube-frames for Axminster. T. P. Walsh. No. 1,006,811; Oct. 24; Sp. p. 4966; Gaz. vol. 171; p. 880.
Looms, Machine for straightening tube-frames for Axminster. T. P. Walsh. (Reissue.) No. 13,335; Dec. 5; Sp. p. 1649; Gaz. vol. 173; p. 263.
Looms, Mechanical filling-detector for weft-replenishing. B. F. McGuiness. No. 988,728; Apr. 4; Sp. p. 953; Gaz. vol. 165; p. 151.
Looms, Needle-motion for. W. Wattie. No. 1,009,872; Nov. 28; Sp. p. 4942; Gaz. vol. 172; p. 893.
Looms, Shuttle and shuttle-block for narrow-ware. W. Wattie. No. 989,091; Apr. 11; Sp. p. 1685; Gaz. vol. 165; p. 293.
Looms, Spring-shuttle beater for power-. O. Hallensleben. No. 987,623; Mar. 21; Sp. p. 3903; Gaz. vol. 164; p. 695.
Looms, Thread-cutting temple for. E. S. Stimpson. No. 990,505; Apr. 25; Sp. p. 4828; Gaz. vol. 165; p. 842.
Looms, Wage-registering apparatus for mechanical. S. Marschik. No. 988,957; Apr. 4; Sp. p. 1389; Gaz. vol. 165; p. 223.
Looms, Wage-registering apparatus for mechanical. S. Marschik. No. 994,416; June 6; Sp. p. 655; Gaz. vol. 167; p. 112.
Low-quad-mold-control mechanism. J. S. Bancroft and M. C. Indahl. No. 989,553; Apr. 18; Sp. p. 2701; Gaz. vol. 165; p. 482.
Lubricant-container. H. P. Carrington. No. 982,349; Jan. 24; Sp. p. 4807; Gaz. vol. 162; p. 833.
Lubricant-gland. W. J. Richards. No. 1,001,687; Aug. 29; Sp. p. 5315; Gaz. vol. 169; p. 981.
Lubricating apparatus. W. R. McKeen, Jr. No. 986,734; Mar. 14; Sp. p. 2070; Gaz. vol. 164; p. 363.
Lubricating apparatus. J. T. Pedersen. No. 1,009,562; Nov. 21; Sp. p. 4315; Gaz. vol. 172; p. 743.
Lubricating device. P. McKinney. No. 980,876; Jan. 3; Sp. p. 1496; Gaz. vol. 162; p. 240.
Lubricating device. J. D. Conner. No. 983,874; Feb. 14; Sp. p. 1350; Gaz. vol. 163; p. 242.
Lubricating device. J. C. Nichol. No. 986,849; Mar. 14; Sp. p. 2318; Gaz. vol. 164; p. 401.
Lubricating device. A. Mlitz. No. 1,006,257; Oct. 17; Sp. p. 3728; Gaz. vol. 171; p. 655.
Lubricating device. W. H. Hultgren. No. 1,010,498; Dec. 5; Sp. p. 224; Gaz. vol. 173; p. 36.
Lubricating device, Automatic. A. Pribil. No. 1,008,061; Nov. 7; Sp. p. 893; Gaz. vol. 172; p. 144.
Lubricating device, Wheel-. C. B. Chandler. No. 1,009,649; Nov. 21; Sp. p. 4467; Gaz. vol. 172; p. 770.
Lubricating journal-box. A. B. Wright and F. J. Harrison. No. 993,808; May 30; Sp. p. 6412; Gaz. vol. 166; p. 1155.
Lubricating material and manufacturing the same. H. P. White. No. 1,002,349; Sept. 5; Sp. p. 395; Gaz. vol. 170; p. 56.
Lubricating mechanism. E. Fisher. No. 996,754; July 4; Sp. p. 316; Gaz. vol. 168; p. 54.
Lubricating stick or bar. P. Conniff. No. 1,010,237; Nov. 28; Sp. p. 5679; Gaz. vol. 172; p. 1016.
Lubricating system. L. Alleman. No. 980,178; Jan. 3; Sp. p. 1; Gaz. vol. 162; p. 3.
Lubricating system. W. J. Schlacks. No. 984,303; Feb. 14; Sp. p. 2285; Gaz. vol. 163; p. 387.
Lubricating system. E. A. Rix. No. 1,001,306; Aug. 22; Sp. p. 4534; Gaz. vol. 169; p. 822.
Lubricating system. E. Woerner. No. 1,008,401; Nov. 14; Sp. p. 1732; Gaz. vol. 172; p. 304.

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Lubricating system. W. A. Keith. No. 1,008,828; Nov. 14; Sp. p. 2699; Gaz. vol. 172; p. 454.
Lubricating system. C. H. Judson. No. 1,011,626; Dec. 12; Sp. p. 2804; Gaz. vol. 173; p. 467.
Lubrication. C. S. Bavier. No. 1,000,958; Aug. 15; Sp. p. 3748; Gaz. vol. 169; p. 670.
Lubrication apparatus. J. Triftshauser. No. 982,906; Jan. 31; Sp. p. 5998; Gaz. vol. 162; p. 1051.
Lubricator: *See* Alarm-lubricator; Automatic lubricator; Axle-lubricator; Axle-journal lubricator; Car-wheel lubricator; Car-wheel-flange lubricator; Condenser-feed lubricator; Elevator-guide lubricator; Engine-lubricator; Force-feed lubricator; Furrow-cutter lubricator; Grease lubricator; Journal-bearing lubricator; Power-feed lubricator; Pump-lubricator; Rail-lubricator; Spindle-lubricator; Wheel-flange lubricator; Windmill-lubricator.
Lubricator. W. A. Wilson. No. 982,335; Jan. 24; Sp. p. 4779; Gaz. vol. 162; p. 827.
Lubricator. N. L. Chalmers. No. 983,025; Jan. 31; Sp. p. 6268; Gaz. vol. 162; p. 1090.
Lubricator. S. S. Lyon. No. 983,071; Jan. 31; Sp. p. 6366; Gaz. vol. 162; p. 1106.
Lubricator. J. E. Hughes. No. 984,373; Feb. 14; Sp. p. 2426; Gaz. vol. 163; p. 410.
Lubricator. O. H. Neiman. No. 984,839; Feb. 21; Sp. p. 3437; Gaz. vol. 163; p. 606.
Lubricator. E. L. Seibert, Sr. No. 987,082; Mar. 14; Sp. p. 2759; Gaz. vol. 164; p. 477.
Lubricator. G. H. Menzies. No. 987,735; Mar. 28; Sp. p. 4182; Gaz. vol. 164; p. 763.
Lubricator. G. J. Bingham. No. 988,618; Apr. 4; Sp. p. 709; Gaz. vol. 165; p. 113.
Lubricator. G. J. Bingham. No. 988,853; Apr. 4; Sp. p. 1188; Gaz. vol. 165; p. 190.
Lubricator. J. A. Charter. No. 989,694; Apr. 18; Sp. p. 3010; Gaz. vol. 165; p. 530.
Lubricator. C Reid. No. 990,008; Apr. 18; Sp. p. 3683; Gaz. vol. 165; p. 638.
Lubricator. J. F. MacIndoe. No. 990,892; May 2; Sp. p. 138; Gaz. vol. 166; p. 26.
Lubricator. J. R. W. Menger. No. 990,895; May 2; Sp. p. 143; Gaz. vol. 166; p. 27.
Lubricator. G. Kraft. No. 991,214; May 2; Sp. p. 827; Gaz. vol. 166; p. 140.
Lubricator. J. Huverstuhl. No. 991,723; May 9; Sp. p. 1940; Gaz. vol. 166; p. 348.
Lubricator. H. J. Liverpool. No. 992,016; May 9; Sp. p. 2508; Gaz. vol. 166; p. 446.
Lubricator. C. Williams. No. 992,091; May 9; Sp. p. 2645; Gaz. vol. 166; p. 471.
Lubricator. B. F. Howard. No. 992,503; May 16; Sp. p. 3598; Gaz. vol. 166; p. 646.
Lubricator. J. Zsarkó. No. 993,433; May 30; Sp. p. 5587; Gaz. vol. 166; p. 1025.
Lubricator. C. Stewart. No. 994,284; June 6; Sp. p. 375; Gaz. vol. 167; p. 64.
Lubricator. C. B. Hodges. No. 994,316; June 6; Sp. p. 434; Gaz. vol. 167; p. 75.
Lubricator. B. H. Turnage. No. 995,389; June 13; Sp. p. 2802; Gaz. vol. 167; p. 477.
Lubricator. E. McCoy. No. 997,400; July 11; Sp. p. 1675; Gaz. vol. 168; p. 304.
Lubricator. F. Wiebens. No. 997,724; July 11; Sp. p. 2359; Gaz. vol. 168; p. 415.
Lubricator. W. L. Morris. No. 999,838; Aug. 8; Sp. p. 1267; Gaz. vol. 169; p. 248.
Lubricator. W. F. Broeker. No. 1,000,232; Aug. 8; Sp. p. 2158; Gaz. vol. 169; p. 384.
Lubricator. J. Erikson. No. 1,000,791; Aug. 15; Sp. p. 3406; Gaz. vol. 169; p. 612.
Lubricator. E. Ryan. No. 1,001,559; Aug. 22; Sp. p. 5026; Gaz. vol. 169; p. 906.
Lubricator. R. H. Reichel. No. 1,002,313; Sept. 5; Sp. p. 291; Gaz. vol. 170; p. 40.
Lubricator. S. D. Jones. No. 1,002,917; Sept. 12; Sp. p. 1662; Gaz. vol. 170; p. 287.
Lubricator. C. W. Manzel. No. 1,003,189; Sept. 12; Sp. p. 2211; Gaz. vol. 170; p. 380.
Lubricator. F. H. Crooks. No. 1,004,853; Oct. 3; Sp. p. 664; Gaz. vol. 171; p. 108.
Lubricator. U. U. Carr. No. 1,006,059; Oct. 17; Sp. p. 3259; Gaz. vol. 171; p. 583.
Lubricator. J. E. Crandall. No. 1,007,849; Nov. 7; Sp. p. 476; Gaz. vol. 172; p. 70.
Lubricator. J. L. Osgood. No. 1,008,052; Nov. 7; Sp. p. 870; Gaz. vol. 172; p. 140.
Lubricator. H. S. Blynt. No. 1,008,584; Nov. 14; Sp. p. 2169; Gaz. vol. 172; p. 370.
Lubricator. W. Booth. No. 1,008,780; Nov. 14; Sp. p. 2606; Gaz. vol. 172; p. 437.
Lubricator. W. Smith. No. 1,010,195; Nov. 28; Sp. p. 5595; Gaz. vol. 172; p. 1002.
Lubricator. W. Dietz. No. 1,011,330; Dec. 12; Sp. p. 2116; Gaz. vol. 173; p. 361.
Lubricator. W. M. Templeton. No. 1,012,114; Dec. 19; Sp. p. 3876; Gaz. vol. 173; p. 670.
Lubricator alarm device. F. Lemann. No. 1,010,058; Nov. 28; Sp. p. 5332; Gaz. vol. 172; p. 956.
Lubricator-cup. R. M. Stevenson. No. 984,713; Feb. 21; Sp. p. 3185; Gaz. vol. 163; p. 564.
Lubricator for chains, &c. A. W. F. Steckel. No. 997,586; July 11; Sp. p. 2049; Gaz. vol. 168; p. 366.
Lubricator sight-feed attachment. F. W. Edwards. No. 1,009,290; Nov. 21; Sp. p. 3724; Gaz. vol. 172; p. 648.
Lubricator with ball-closure. A. Pribil. No. 992,519; May 16; Sp. p. 3633; Gaz. vol. 166; p. 652.
Lubricators, Operating device for force-feed. E. Sundvall. No. 986,872; Mar. 14; Sp. p. 2371; Gaz. vol. 164; p. 410.
Lug-forming matrix. A. G. Stevenson. No. 1,012,741; Dec. 26; Sp. p. 5187; Gaz. vol. 173; p. 929.
Lug-strap. A. Girard. No. 998,244; July 18; Sp. p. 3570; Gaz. vol. 168; p. 640.
Lug-strap. J. H. Whitworth. No. 1,012,950; Dec. 26; Sp. p. 5707; Gaz. vol. 173; p. 1001.
Luggage-carrier. J. R. Coyle. No. 995,771; June 20; Sp. p. 3678; Gaz. vol. 167; p. 641.
Lumber and the like clamp. J. P. Hinrichs. No. 1,003,108; Sept. 12; Sp. p. 2045; Gaz. vol. 170; p. 352.
Lumber conveyer and separator. C. H. Williams. No. 996,386; June 27; Sp. p. 5042; Gaz. vol. 167; p. 888.
Lumber, Drying. A. D. Linn. No. 1,005,243; Oct. 10; Sp. p. 1448; Gaz. vol. 171; p. 264.
Lumber-jack. L. S. Perdue. No. 1,008,488; Nov. 14; Sp. p. 1956; Gaz. vol. 172; p. 334.
Lumber-jack. J. D. Stegeman. No. 1,012,286; Dec. 19; Sp. p. 4247; Gaz. vol. 173; p. 729.
Lumber-register. R. L. Lowery. No. 1,013,030; Dec. 26; Sp. p. 5871; Gaz. vol. 173; p. 1027.
Lumber-stacker. W. Graham. No. 983,892; Feb. 14; Sp. p. 1393; Gaz. vol. 163; p. 248.
Lumber-stacker, Edge-piling. G. F. Steedman. No. 987,185; Mar. 21; Sp. p. 3009; Gaz. vol. 164; p. 546.
Lumber-stacking device. W. Graham. No. 983,891; Feb. 14; Sp. p. 1384; Gaz. vol. 163; p. 248.
Lunch-box. D. J. Craig. No. 1,007,646; Oct. 31; Sp. p. 6798; Gaz. vol. 171; p. 1222.
Lunch-box, Heat-insulated. J. G. Schleicher. No. 1,006,135; Oct. 17; Sp. p. 3438; Gaz. vol. 171; p. 611.
Lunch-heater. M. Krzewinski. No. 1,000,610; Aug. 15; Sp. p. 3012; Gaz. vol. 169; p. 549.
Lunch-receptacle. S. E. Wilson. No. 995,935; June 20; Sp. p. 4022; Gaz. vol. 167; p. 699.
Lunch-receptacle, Sanitary. F. Haerter and F. H. Kunkel. No. 980,941; Jan. 10; Sp. p. 1690; Gaz. vol. 162; p. 292.
Lupulin and making same, Preparation containing. L. Wallerstein. No. 995,822; June 20; Sp. p. 3786; Gaz. vol. 167; p. 660.
Macaroni and like bakery products, Apparatus for drying. J. Schmidt and H. Schütterle. No. 1,010,809; Dec. 5; Sp. p. 906; Gaz. vol. 173; p. 142.
Macaroni-making machine. F. A. Martoccio. No. 992,369; May 16; Sp. p. 3331; Gaz. vol. 166; p. 599.
Macaroni-manufacturing apparatus. F. Becker. No. 1,004,346; Sept. 26; Sp. p. 4747; Gaz. vol. 170; p. 840.
Machine-brake. C. L. Taylor. No. 987,927; Mar. 28; Sp. p. 4608; Gaz. vol. 164; p. 829.
Machine-brake. J. W. Mallory and W. C. Peters. No. 998,913; July 25; Sp. p. 5070; Gaz. vol. 168; p. 909.
Machine-mold. P. J. Haas. No. 1,000,088; Aug. 8; Sp. p. 1851; Gaz. vol. 169; p. 335.
Machine seat attachment. R. R. Benham and L. W. Millimman. No. 1,011,725; Dec. 12; Sp. p. 2994; Gaz. vol. 173; p. 499.
Machine-tool. R. Beuttenmüller. No. 998,273; July 18; Sp. p. 3643; Gaz. vol. 168; p. 651.
Machine-tool chuck attachment. F. O. Wells. No. 987,659; Mar. 21; Sp. p. 3980; Gaz. vol. 164; p. 709.
Machine-tools, Changeable driving connection for. E. P. Bullard, Jr. No. 995,322; June 13; Sp. p. 2621; Gaz. vol. 167; p. 454.
Machine-tools, Counterbalancing device for. S. H. Bullard. No. 995,420; June 13; Sp. p. 2881; Gaz. vol. 167; p. 489.
Machine-tools, Turret-head for. E. P. Bullard, Jr. No. 993,290; May 23; Sp. p. 5253; Gaz. vol. 166; p. 942.
Machine-tools, Work-holder for. T. Brick. No. 989,893; Apr. 18; Sp. p. 3427; Gaz. vol. 165; p. 597.
Machinery, Automatically-controlled securing or locking device for safeguarding. F. Watson and W. Moulding. No. 998,866; July 25; Sp. p. 4960; Gaz. vol. 168; p. 892.
Machinery-guard. E. W. Pinkerton. No. 999,464; Aug. 1; Sp. p. 531; Gaz. vol. 169; p. 93.
Machinery, Manufacturing rotating bodies for high-speed. E. F. W. Alexanderson. No. 998,734; July 25; Sp. p. 4667; Gaz. vol. 168; p. 846.
Magazine-pipe. W. S. Clark. No. 1,011,747; Dec. 12; Sp. p. 3035; Gaz. vol. 173; p. 507.
Magazines, Holder for insertible. H. Borchardt. No. 989,560; Apr. 18; Sp. p. 2720; Gaz. vol. 165; p. 485.
Magnesium and magnesium alloys, Purification of. B. Hoffmann and R. Suchy. No. 993,373; May 30; Sp. p. 5458; Gaz. vol. 166; p. 1005.
Magnet, Alternating-current. N. O. Lindstrom. No. 989,018; Apr. 11; Sp. p. 1525; Gaz. vol. 165; p. 268.
Magnet for electric motors and generators, Field-. A. E. Reimers. No. 998,302; July 18; Sp. p. 3725; Gaz. vol. 168; p. 663.
Magnet-frame, Magneto-generator. G. Honold. No. 1,009,518; Nov. 21; Sp. p. 4233; Gaz vol. 172; p. 729.
Magnet, Lifting-. H. Poth. No. 986,216; Mar. 7; Sp. p. 952; Gaz. vol. 164; p. 155.

Magnet structure, Field-. W. P. Dandliker. No. 992,548; May 16; Sp. p. 3704; Gaz. vol. 166; p. 663.
Magnet structure, Field-. A. J. Brown. No. 992,846; May 23; Sp. p. 4316; Gaz. vol. 166; p. 795.
Magnet-terminal. W. Kaisling. No. 1,011,439; Dec. 12; Sp. p. 2329; Gaz. vol. 173; p. 398.
Magnetic drill, Portable. A. Casazza. No. 1,006,532; Oct. 24; Sp. p. 4354; Gaz. vol. 171; p. 781.
Magnetic flux in electric motors, generators, &c., Production of predetermined distribution of. R. D. Mershon. No. 998,026; July 18; Sp. p. 3088; Gaz. vol. 168; p. 563.
Magnetic materials, Apparatus for handling. J. F. Schnabel. No. 982,883; Jan. 31; Sp. p. 5950; Gaz. vol. 162; p. 1043.
Magnetic materials, Apparatus for handling. J. F. Schnabel. No. 989,065; Apr. 11; Sp. p. 1637; Gaz. vol. 165; p. 285.
Magnetic qualities of a magnetic body, Improving certain. R. A. Hadfield. No. 1,012,845; Dec. 26; Sp. p. 5456; Gaz. vol. 173; p. 965.
Magnetic separator. A. Kühn. No. 981,092; Jan. 10; Sp. p. 2092; Gaz. vol. 162; p. 346.
Magnetic separator. A. and M. Dings. No. 983,881; Feb. 14; Sp. p. 1362; Gaz. vol. 163; p. 245.
Magnetic separator. A. Dings. No. 986,554; Mar. 14; Sp. p. 1698; Gaz. vol. 164; p. 300.
Magnetic separator. E. S. Bennett. No. 999,736; Aug. 8; Sp. p. 1080; Gaz. vol. 169; p. 215.
Magnetic separator. E. J. Feeley. No. 1,000,392; Aug. 15; Sp. p. 2511; Gaz. vol. 169; p. 470.
Magnetic testing device. L. J. Le Pontois. No. 1,000,938; Aug. 15; Sp. p. 3704; Gaz. vol. 169; p. 664.
Magneto. S. A. Duvall. No. 994,304; June 6; Sp. p. 412; Gaz. vol. 167; p. 70.
Magneto. C. Cuno. No. 1,008,019; Nov. 7; Sp. p. 805; Gaz. vol. 172; p. 128.
Magneto-electric generator. F. I. and B. P. Remy. No. 983,932; Feb. 14; Sp. p. 1478; Gaz. vol. 163; p. 260.
Magneto-electric machine. W. W. Dean. No. 983,029; Jan. 31; Sp. p. 6276; Gaz. vol. 162; p. 1091.
Magneto-generator. W. D. and J. R. Pennington. No. 999,335; Aug. 1; Sp. p. 272; Gaz. vol. 169; p. 50.
Magneto-generators, Driving means for. O. E. Wooldridge. No. 983,853; Feb. 7; Sp. p. 1281; Gaz. vol. 163; p. 205.
Magneto-guard. D. F. Ebbert. No. 1,004,758; Oct. 3; Sp. p. 458; Gaz. vol. 171; p. 75.
Magnetos, Distributer for. F. B. Hays and J. M. Dinkins. No. 990,811; Apr. 25; Sp. p. 5485; Gaz. vol. 165; p. 945.
Mail and coin holder for rural carriers. D. M. Cain and N. F. Rockey. No. 1,012,594; Dec. 26; Sp. p. 4868; Gaz. vol. 173; p. 877.
Mail and the like to the upper floors of buildings, Device for delivering. R. Oehmen. No. 988,281; Mar. 28; Sp. p. 5355; Gaz. vol. 164; p. 948.
Mail-bag and parcel receiving and delivering apparatus. A. M. Clark. No. 991,425; May 2; Sp. p. 1269; Gaz. vol. 166; p. 212.
Mail-bag catcher. C. E. Boone. No. 982,568; Jan. 24; Sp. p. 5265; Gaz. vol. 162; p. 908.
Mail-bag catcher. G. E. Watkins. No. 983,100; Jan. 31; Sp. p. 6422; Gaz. vol. 162; p. 1116.
Mail-bag catcher. R. S. Miller. No. 983,744; Feb. 7; Sp. p. 1037; Gaz. vol. 163; p. 166.
Mail-bag catcher. S. A. Simmons. No. 984,163; Feb. 14; Sp. p. 1965; Gaz. vol. 163; p. 337.
Mail-bag catcher. J. D. Leonard. No. 986,298; Mar. 7; Sp. p. 1120; Gaz. vol. 164; p. 181.
Mail-bag catcher. C. R. Feist. No. 991,838; May 9; Sp. p. 2166; Gaz. vol. 166; p. 386.
Mail-bag catcher. C. A. Frame. No. 994,308; June 6; Sp. p. 417; Gaz. vol 167; p. 72.
Mail-bag catcher. E. Wieser. No. 1,000,653; Aug. 15; Sp. p. 3110; Gaz. vol. 169; p. 564.
Mail-bag catcher. A. P. Harman. No. 1,005,427; Oct. 10; Sp. p. 1869; Gaz. vol. 171; p. 331.
Mail-bag catcher and deliverer. G. M. Stains and P. J. Lynch. No. 988,221; Mar. 28; Sp. p. 5234; Gaz. vol. 164; p. 928.
Mail-bag catcher and deliverer. W. T. Gulledge. No. 991,058; May 2; Sp. p. 469; Gaz. vol. 166; p. 82.
Mail-bag catcher and deliverer. R. W. Tauson. No. 995,202; June 13; Sp. p. 2390; Gaz. vol. 167; p. 415.
Mail-bag catcher and deliverer. F. A. Vollmer. No. 995,391; June 13; Sp. p. 2813; Gaz. vol. 167; p. 478.
Mail-bag catcher and deliverer. A. M. Porter. No. 995,563; June 20; Sp. p. 3192; Gaz. vol. 167; p. 567.
Mail-bag catcher and deliverer. C. G. Fricke and J. Yelick. No. 996,635; July 4; Sp. p. 85; Gaz. vol. 168; p. 16.
Mail-bag catcher and deliverer. J. N. Papendry. No. 1,004,068; Sept. 26; Sp. p. 4151; Gaz. vol. 170; p. 745.
Mail-bag catcher and deliverer. W. P. Arntz. No. 1,011,709; Dec. 12; Sp. p. 2952; Gaz. vol. 173; p. 494.
Mail-bag catching and delivering apparatus. H. Fischer. No. 988,260; Mar. 28; Sp. p. 5309; Gaz. vol. 164; p. 940.
Mail-bag catching and delivering apparatus. J. L. Schlehr and W. Patterson. No. 1,007,242; Oct. 31; Sp. p. 5935; Gaz. vol. 171; p. 1083.
Mail-bag catching and delivering apparatus. J. N. Isenberger. No. 1,008,546; Nov. 14; Sp. p. 2074; Gaz. vol. 172; p. 355.
Mail-bag catching and delivering device. J. H. Bowling. No. 993,952; May 30; Sp. p. 6684; Gaz. vol. 166; p. 1203.
Mail-bag catching and delivering mechanism. E. G. Mays. No 992,742; May 16; Sp. p. 4079; Gaz. vol. 166; p. 729.
Mail-bag closure. A. W. Clark. No. 984,540; Feb. 21; Sp. p. 2806; Gaz. vol. 163; p. 501.
Mail-bag crane. J. W. Yocum. No. 998,730; July 25; Sp. p. 4661; Gaz. vol. 168; p. 844.
Mail-bag deliverer. F. I. Brown. No. 989,563; Apr. 18; Sp. p. 2726; Gaz. vol. 165; p. 486.
Mail-bag-delivering device, Railway. W. G. Palmer. No. 983,514; Feb. 7; Sp. p. 549; Gaz. vol. 163; p. 88.
Mail-bag-exchanging apparatus. C. W. Bell. No. 989,320; Apr. 11; Sp. p. 2187; Gaz. vol. 165; p. 372.
Mail-bag fastener. J. A. Scott. No. 1,001,996; Aug. 29; Sp. p. 5999; Gaz. vol. 169; p. 1085.
Mail-bag-handling apparatus. K. Gerhardt. No. 1,000,255; Aug. 8; Sp. p. 2199; Gaz. vol. 169; p. 391.
Mail-bag holder. E. Woodworth, M. J. Outwater, and E. Hoff. No. 995,647; June 20; Sp. p. 3395; Gaz. vol. 167; p. 598.
Mail-bag receiving and delivering apparatus. P. B. Southworth. No. 1,008,213; Nov. 7; Sp. p. 1214; Gaz. vol. 172; p. 199.
Mail-bag receiving and delivering apparatus for railway-cars. C. W. Broughton and F. D. Reynolds. No. 987,950; Mar. 28; Sp. p. 4689; Gaz. vol. 164; p. 839.
Mail-bag receiving and delivering device. W. W. Kilpatrick. No. 984,378; Feb. 14; Sp. p. 2435; Gaz. vol. 163; p. 412.
Mail-bag receiving and delivering mechanism. W. H. Jones. No. 1,002,064; Aug. 29; Sp. p. 6122; Gaz. vol. 169; p. 1106.
Mail-bag-receiving device, Railway. W. G. Palmer. No. 983,513; Feb. 7; Sp. p. 547; Gaz. vol. 163; p. 87.
Mail-box. E. D. Hale. No. 982,206; Jan. 17; Sp. p. 4481; Gaz. vol. 162; p. 752.
Mail-box. A. K. Smith and E. A. Kumming. No. 986,951; Mar. 14; Sp. p. 2528; Gaz. vol. 164; p. 437.
Mail-box. F. B. Sultz. No. 990,925; May 2; Sp. p. 210; Gaz. vol. 166; p. 37.
Mail-box. R. H. Whitted. No. 991,579; May 9; Sp. p. 1620; Gaz. vol. 166; p. 299.
Mail-box. H. E. Chleborad. No. 995,845; June 20; Sp. p. 3838; Gaz. vol. 167; p. 667.
Mail-box. J. T. Johnston. No. 996,719; July 4; Sp. p. 246; Gaz. vol. 168; p. 42.
Mail-box. E. F. Toomy. No. 997,478; July 11; Sp. p. 1818; Gaz. vol. 168; p. 329.
Mail-box. A. Rosenberg and E. E. Clark. No. 1,001,080; Aug. 22; Sp. p. 4079; Gaz. vol. 169; p. 748.
Mail-box. F. C. Meyer. No. 1,006,772; Oct. 24; Sp. p. 4868; Gaz. vol. 171; p. 865.
Mail-box. C. F. Heath. No. 1,009,146; Nov. 21; Sp. p. 3366; Gaz. vol. 172; p. 596.
Mail-box. O. R. Gidley. No. 1,009,235; Nov. 21; Sp. p. 3599; Gaz. vol. 172; p. 628.
Mail-box. J. R. Randles. No. 1,010,317; Nov. 28; Sp. p. 5848; Gaz. vol. 172; p. 1041.
Mail-box. O. E. Pederson. No. 1,010,519; Dec. 5; Sp. p. 270; Gaz. vol. 173; p. 42.
Mail-box alarm. G. H. Diemer. No. 1,005,004; Oct. 3; Sp. p. 955; Gaz. vol. 171; p. 159.
Mail box and carrier. H. A. Schultz. No. 1,004,476; Sept. 26; Sp. p. 5027; Gaz. vol. 170; p. 884.
Mail-box attachment. W. H. Stark. No. 994,614; June 6; Sp. p. 1064; Gaz. vol. 167; p. 177.
Mail-box attachment. J. T. Ridgway. No. 1,005,312; Oct. 10; Sp. p. 1625; Gaz. vol. 171; p. 291.
Mail-box coin-holder. H. C. Allen. No. 991,593; May 9; Sp. p. 1655; Gaz. vol. 166; p. 304.
Mail-box coin-receptacle. H. O. Schroeder. No. 992,605; May 16; Sp. p. 3829; Gaz. vol. 166; p. 682.
Mail-box name-holder. E. S. Fitch. No. 994,734; June 13; Sp. p. 1385; Gaz. vol. 167; p. 259.
Mail-box-transmitting apparatus. W. E. Stewart. No. 982,894; Jan. 31; Sp. p. 5967; Gaz. vol. 162; p. 1047.
Mail-boxes, Collection-indicator for. W. W. Day. No. 1,003,436; Sept. 19; Sp. p. 2722; Gaz. vol. 170; p. 499.
Mail-car bag-rack. A. Marti. No. 1,002,168; Aug. 29; Sp. p. 6310; Gaz. vol. 169; p. 1140.
Mail-carrier. C. E. Conley. No. 980,209; Jan. 3; Sp. p. 65; Gaz. vol. 162; p. 13.
Mail-carrier. J. T. Wiley. No. 991,582; May 9; Sp. p. 1626; Gaz. vol. 166; p. 300.
Mail-carrier. W. E. Malcolm. No. 995,696; June 20; Sp. p. 3491; Gaz. vol. 167; p. 615.
Mail-carrier, Automatic. J. Gronek. No. 1,001,021; Aug. 22; Sp. p. 3946; Gaz. vol. 169; p. 726.
Mail-carrier system. C. E. Conley. No. 990,842; May 2; Sp. p. 30; Gaz. vol. 166; p. 8.
Mail-carrying device. J. J. Tuttle. No. 984,402; Feb. 14; Sp. p. 2476; Gaz. vol. 163; p. 419.
Mail-carrying device. J. F. Erickson and M. M. Woodward. No. 989,492; Apr. 11; Sp. p. 2528; Gaz. vol. 165; p. 428.
Mail-case. M. N. Dunham. No. 1,008,315; Nov. 14; Sp. p. 1495; Gaz. vol. 172; p. 274.
Mail-catcher. G. W. Wallin. No. 1,002,885; Sept. 12; Sp. p. 1587; Gaz. vol. 170; p. 275.

Alphabetical list of inventions—Continued.

Mail catcher and crane. J. Hicke. No. 1,001,954; Aug. 29; Sp. p. 5916; Gaz. vol. 169; p. 1072.
Mail catching and delivering apparatus. H. J. Hedrick. No. 991,444; May 2; Sp. p. 1309; Gaz. vol. 166; p. 219.
Mail catching and delivering device. A. J. Hughes. No. 1,003,461; Sept. 19; Sp. p. 2776; Gaz. vol. 170; p. 508.
Mail-changing device for railways. W. M. Moloney. No. 1,006,586; Oct. 24; Sp. p. 4497; Gaz. vol. 171; p. 802.
Mail-chute. E. A. Fordyce. No. 981,921; Jan. 17; Sp. p. 3907; Gaz. vol. 162; p. 656.
Mail-chute. L. Ehrlich. No. 985,985; Mar. 7; Sp. p. 505; Gaz. vol. 164; p. 80.
Mail-chute. L. Ehrlich. No. 988,961; Apr. 4; Sp. p. 1396; Gaz. vol. 165; p. 224.
Mail-chute. J. W. Cutler. No. 990,233; Apr. 25; Sp. p. 4163; Gaz. vol. 165; p. 744.
Mail-crane. E. A. Robinson. No. 986,314; Mar. 7; Sp. p. 1162; Gaz. vol. 164; p. 187.
Mail-crane. F. Hansen. No. 1,009,509; Nov. 21; Sp. p. 4218; Gaz. vol. 172; p. 726.
Mail-crane. C. C. Horn and H. L. Bening. No. 1,010,765; Dec. 5; Sp. p. 825; Gaz. vol. 173; p. 128.
Mail crane and catcher. J. A. Timmerman. No. 1,004,109; Sept. 26; Sp. p. 4265; Gaz. vol. 170; p. 760.
Mail deliverer and receiver, Railway. E. C. Smith. No. 995,577; June 20; Sp. p. 3237; Gaz. vol. 167; p. 572.
Mail delivering and receiving apparatus. J. H. Grotzky. No. 998,504; July 18; Sp. p. 4130; Gaz. vol. 168; p. 732.
Mail-delivering apparatus. J. H. Mahle. No. 1,000,829; Aug. 15; Sp. p. 3470; Gaz. vol. 169; p. 625.
Mail-delivering system, Rural-. F. C. Brooks. No. 1,008,889; Nov. 14; Sp. p. 2813; Gaz. vol. 172; p. 474.
Mail-delivery device, Rural-. G. V. Kinney. No. 986,011; Mar. 7; Sp. p. 554; Gaz. vol. 164; p. 88.
Mail-delivery device, Rural-. G. V. Kinney. No. 986,012; Mar. 7; Sp. p. 556; Gaz. vol. 164; p. 89.
Mail device. C. D. Brown. No. 1,011,733; Dec. 12; Sp. p. 3009; Gaz. vol. 173; p. 501.
Mail device. G. H. Moon, Jr. No. 1,012,410; Dec. 19; Sp. p. 4496; Gaz. vol. 173; p. 770.
Mail-elevator. A. D. Archibald. No. 988,429; Apr. 4; Sp. p. 296; Gaz. vol. 165; p. 49.
Mail-exchanger, Railway. G. Holsopple. No. 984,814; Feb. 21; Sp. p. 3391; Gaz. vol. 163; p. 598.
Mail-handling apparatus J. H. Buchanan. No. 985,003; Feb. 21; Sp. p. 3736; Gaz. vol. 163; p. 660.
Mail-holder for letter-carriers' use, Portable. M. Ehrlich and W. Ecker. No. 1,004,392; Sept. 26; Sp. p. 4848; Gaz. vol. 170; p. 856.
Mail-hook, Auto. A. W. Summers and J. V. Thompson. No. 1,002,779; Sept. 5; Sp. p. 1329; Gaz. vol. 170; p. 200.
Mail-loader, Automatic. T. Reeves. No. 1,003,294; Sept. 12; Sp. p. 2433; Gaz. vol. 170; p. 419.
Mail-marking machine. W. D. Doremus. No. 982,415; Jan. 24; Sp. p. 4939; Gaz. vol. 162; p. 855.
Mail-matter-canceling machine. J. P. Cleal and J. G. Fletcher. No. 999,009; July 25; Sp. p. 5295; Gaz. vol. 168; p. 943.
Mail-order advertising and coin-return device. C. H. Dickinson. No. 984,889; Feb. 21; Sp. p. 3522; Gaz. vol. 163; p. 623.
Mail-pouch-transferring apparatus. R. S. Scofield. No. 984,396; Feb. 14; Sp. p. 2465; Gaz. vol. 163; p. 417.
Mail-pouch-transferring apparatus. J. W. Pepple. No. 996,517; June 27; Sp. p. 5307; Gaz. vol. 167; p. 931.
Mail receiving and discharging device. E. M. Dennis. No. 989,340; Apr. 11; Sp. p. 2227; Gaz. vol. 165; p. 377.
Mail-receiving apparatus. C. W. Broughton and F. D. Reynolds. No. 987,949; Mar. 28; Sp. p. 4685; Gaz. vol. 164; p. 838.
Mail-sack fastener. W. Simmons. No. 1,011,866; Dec. 12; Sp. p. 3290; Gaz. vol. 173; p. 546.
Mail-sack holder. E. D. Coultas. No. 1,002,650; Sept. 5; Sp. p. 1039; Gaz. vol. 170; p. 155.
Mail-stamping mechanism. C. Lankhuff. No. 981,285; Jan. 10; Sp. p. 2546; Gaz. vol. 162; p. 415.
Mail-transferring device. C. Creager. No. 1,005,610; Oct. 10; Sp. p. 2296; Gaz. vol. 171; p. 395.
Mail-tying device. I. Allen. No. 982,111; Jan. 17; Sp. p. 4316; Gaz. vol. 162; p. 720.
Mailing-card and merchandise-carrier, Combined. L. C. Witkowski. No. 1,011,697; Dec. 12; Sp. p. 2930; Gaz. vol. 173; p. 490.
Mailing card, Coin-. G. A. Logan. No. 1,003,478; Sept. 19; Sp. p. 2812; Gaz. vol. 170; p. 514.
Mailing-card, Stereoscopic. H. S. Carley. No. 991,948; May 9; Sp. p. 2385; Gaz. vol. 166; p. 424.
Mailing-machine. S. A. Maxwell. No. 992,225; May 16; Sp. p. 2956; Gaz. vol. 166; p. 548.
Mailing-machine-feeding mechanism. S. A. Maxwell. No. 992,224; May 16; Sp. p. 2946; Gaz. vol. 166; p. 548.
Mainspring-winder. F. R. Cunningham. No. 986,695; Mar. 14; Sp. p. 1990; Gaz. vol. 164; p. 350.
Mainspring-winder. N. S. North. No. 1,009,852; Nov. 28; Sp. p. 4904; Gaz. vol. 172; p. 886.
Maize or Indian corn, Treating. A. P. Anderson. No. 990,093; Apr. 18; Sp. p. 3843; Gaz. vol. 165; p. 665.
Male die, Built-up. J. H. Ames. No. 996,601; July 4; Sp. p. 1; Gaz. vol. 168; p. 3.
Malt beverages, Manufacture of. R. Wahl. (Reissue.) No. 13,315; Nov. 14; Sp. p. 3137; Gaz. vol. 172; p. 523.
Malt-growing compartments, Power-driven apparatus for emptying. D. D. Weschler. No. 984,249; Feb. 14; Sp. p. 2170; Gaz. vol. 163; p. 368.
Malt-houses, Apparatus for cooling and drying air in. W. H. Prinz. No. 997,581; July 11; Sp. p. 2038; Gaz. vol. 168; p. 364.
Malt-kiln. P. Wessinger. No. 988,157; Mar. 28; Sp. p. 5115; Gaz. vol. 164; p. 907.
Malt, Treating. W. Reinhardt. No. 989,421; Apr. 11; Sp. p. 2392; Gaz. vol. 165; p. 404.
Malt-turning apparatus. G. Weinbeer. No. 991,916; May 9; Sp. p. 2320; Gaz. vol. 166; p. 412.
Maltage, Device for cooling air required for. E. Ott. No. 980,828; Jan. 3; Sp. p. 1392; Gaz. vol. 162; p. 223.
Malting apparatus. G. H. Meyer. No. 998,027; July 18; Sp. p. 3095; Gaz. vol. 168; p. 563.
Malting, Apparatus for turning germinating grain in. C. Schau. No. 982,189; Jan. 17; Sp. p. 4451; Gaz. vol. 162; p. 746.
Malting, Steeping grain for. W. H. Prinz. No. 994,786; June 13; Sp. p. 1505; Gaz. vol. 167; p. 276.
Mandolin. W. McCullough. No. 989,510; Apr. 11; Sp. p. 2568; Gaz. vol. 165; p. 435.
Mandolin-pick. A. F. Willat. No. 998,440; July 18; Sp. p. 4006; Gaz. vol. 168; p. 711.
Mandolins, zithers, and similar stringed musical instruments, Pick for. J. Gaynor. No. 1,009,403; Nov. 21; Sp. p. 3992; Gaz. vol. 172; p. 689.
Mandrel, Collapsible. C. T. Hansen. No. 1,000,261; Aug. 8; Sp. p. 2209; Gaz. vol. 169; p. 393.
Mandrel, Collapsible. C. T. Hansen. No. 1,003,255; Sept. 12; Sp. p. 2363; Gaz. vol. 170; p. 405.
Mandrel for seamless tubes of shrinkable material. P. I. Andrews. No. 999,004; July 25; Sp. p. 5283; Gaz. vol. 168; p. 941.
Mandrel, Self-expanding. J. E. Bergström. No. 1,005,928; Oct. 17; Sp. p. 2988; Gaz. vol. 171; p. 540.
Mandrel, Tire-splicing. C. C. Chamberlain. No. 1,011,155; Dec. 12; Sp. p. 1693; Gaz. vol. 173; p. 298.
Manganese and calcium fluorid, Manufacturing metallic. W. S. Rockey and H. Eldridge. No. 1,007,734; Nov. 7; Sp. p. 175; Gaz. vol. 172; p. 29.
Manger. S. W. Jaeger. No. 988,715; Apr. 4; Sp. p. 925; Gaz. vol. 165; p. 146.
Mangle. H. W. Tuttle. No. 989,669; Apr. 18; Sp. p. 2954; Gaz. vol. 165; p. 521.
Mangle. P. L. Brockardt. No. 1,012,512; Dec. 19; Sp. p. 4681; Gaz. vol. 173; p. 804.
Mangle and kitchen-table, Combined. M. Glass. No. 1,001,136; Aug. 22; Sp. p. 4191; Gaz. vol. 169; p. 767.
Manhole-cover. H. Jones. No. 1,011,625; Dec. 12; Sp. p. 2803; Gaz. vol. 173; p. 467.
Manhole-covers, Locking mechanism for. H. Jones. No. 1,001,041; Aug. 22; Sp. p. 3990; Gaz. vol. 169; p. 734.
Manhole-door. C. D. Stanford and F. L. Craddock. No. 1,006,413; Oct. 17; Sp. p. 4065; Gaz. vol. 171; p. 708.
Manhole-switch. S. B. Condit, Jr., and A. E. Greene. No. 1,008,012; Nov. 7; Sp. p. 794; Gaz. vol. 172; p. 126.
Manholes for boilers and pressure-tanks, Reinforcement for. T. J. Weldon. No. 999,613; Aug. 1; Sp. p. 819; Gaz. vol. 169; p. 143.
Manicuring implement. A. A. Cowing. No. 982,201; Jan. 17; Sp. p. 4472; Gaz. vol. 162; p. 750.
Manicuring implement. W. C. Baird. No. 1,001,727; Aug. 29; Sp. p. 5392; Gaz. vol. 169; p. 995.
Manifold. C. E. Bonine. No. 999,147; July 25; Sp. p. 5553; Gaz. vol. 168; p. 987.
Manifold, Intake-. W. E. Scripps. No. 998,124; July 18; Sp. p. 3316; Gaz. vol. 168; p. 598.
Manifold-mold. C. Gorman. No. 984,425; Feb. 14; Sp. p. 2523; Gaz. vol. 163; p. 426.
Manifolding-sheets. G. W. Dickey. No. 998,078; July 18; Sp. p. 3208; Gaz. vol. 168; p. 581.
Manikin, Walking. H. A. Mann. No. 1,008,348; Nov. 14; Sp. p. 1558; Gaz. vol. 172; p. 285.
Manipulator. E. J. McIlvried. No. 990,761; Apr. 25; Sp. p. 5377; Gaz. vol. 165; p. 928.
Mantle-fitter's tool. T. J. Litle, Jr. No. 986,638; Mar. 14; Sp. p. 1866; Gaz. vol. 164; p. 331.
Mantle supports or carriers, Holder for inverted-. V. H. Slinack. No. 991,099; May 2; Sp. p. 563; Gaz. vol. 166; p. 98.
Manure and garbage incinerator. G. J. Patitz and C. Sippel. No. 986,853; Mar. 14; Sp. p. 2325; Gaz. vol. 164; p. 403.
Manure-carrier. S. Jagger. No. 982,069; Jan. 17; Sp. p. 4240; Gaz. vol. 162; p. 706.
Manure-conveyer. H. Paulson. No. 988,946; Apr. 4; Sp. p. 1371; Gaz. vol. 165; p. 220.
Manure-fork and lifting-derrick. A. J. Bradley. No. 993,145; May 23; Sp. p. 4971; Gaz. vol. 166; p. 899.
Manure from raw phosphates, Manufacturing. W. Palmaer. No. 995,894; June 20; Sp. p. 3942; Gaz. vol. 167; p. 683.
Manure-loader. W. F. and J. C. Bohling. No. 981,052; Jan. 10; Sp. p. 2017; Gaz. vol. 162; p. 332.
Manure-loader. C. D. Ricketts. No. 983,401; Feb. 7; Sp. p. 307; Gaz. vol. 163; p. 52.
Manure-loader. W. Skakel. No. 984,164; Feb. 14; Sp. p. 1966; Gaz. vol. 163; p. 338.

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Manure-loader. F. R. Helmer and A. F. Wilke. No. 985,260; Feb. 28; Sp. p. 4337; Gaz. vol. 163; p. 784.
Manure-loader. J. C. Walter. No. 987,198; Mar. 21; Sp. p. 3047; Gaz. vol. 164; p. 552.
Manure-loader. F. Hollowell. No. 989,262; Apr. 11; Sp. p. 2057; Gaz. vol. 165; p. 351.
Manure-loader. A. S. Stone. No. 995,302; June 13; Sp. p. 2586; Gaz. vol. 167; p. 448.
Manure-loader. E. M. Warrenfeltz. No. 998,058; July 18; Sp. p. 3157; Gaz. vol. 168; p. 574.
Manure-loader. S. H. Heinmiller. No. 1,003,182; Sept. 12; Sp. p. 2197; Gaz. vol. 170; p. 377.
Manure-loader. A. O. Aasland. No. 1,004,616; Oct. 3; Sp. p. 151; Gaz. vol. 171; p. 26.
Manure-loader. E. Schwartzman. No. 1,010,186; Nov. 28; Sp. p. 5579; Gaz. vol. 172; p. 999.
Manure, Making. F. Schäcke. No. 993,463; May 30; Sp. p. 5648; Gaz. vol. 166; p. 1034.
Manure-receptacle for vehicles. A. W. Leland. No. 990,054; Apr. 18; Sp. p. 3774; Gaz. vol. 165; p. 653.
Manure-spreader. W. N. and W. N. Whitely, Jr. No. 982,330; Jan. 24; Sp. p. 4768; Gaz. vol. 162; p. 826.
Manure-spreader. T. Brown. No. 986,903; Mar. 14; Sp. p. 2438; Gaz. vol. 164; p. 421.
Manure-spreader. T. Brown. No. 990,472; Apr. 25; Sp. p. 4721; Gaz. vol. 165; p. 830.
Manure-spreader. F. W. Rice. No. 990,903; May 2; Sp. p. 156; Gaz. vol. 166; p. 30.
Manure-spreader. H. T. Inghram. No. 991,065; May 2; Sp. p. 489; Gaz. vol. 166; p. 85.
Manure-spreader. D. Garst. No. 992,124; May 9; Sp. p. 2721; Gaz. vol. 166; p. 482.
Manure-spreader. G. W. Barnard. No. 993,640; May 30; Sp. p. 6036; Gaz. vol. 166; p. 1097.
Manure-spreader. F. W. Rice. No. 995,905; June 20; Sp. p. 3961; Gaz. vol. 167; p. 687.
Manure-spreader. E. C. Litchfield and J. C. Harris. No. 997,682; July 11; Sp. p. 2261; Gaz. vol. 168; p. 400.
Manure-spreader. J. Harker. No. 998,769; July 25; Sp. p. 4750; Gaz. vol. 168; p. 858.
Manure-spreader. A. C. Lindgren. No. 998,912; July 25; Sp. p. 5067; Gaz. vol. 168; p. 909.
Manure-spreader. S. K. Dennis. No. 1,001,366; Aug. 22; Sp. p. 4674; Gaz. vol. 169; p. 844.
Manure-spreader. F. E. Shields. No. 1,002,461; Sept. 5; Sp. p. 642; Gaz. vol. 170; p. 92.
Manure-spreader. T. Brown. (Reissue.) No. 13,318; Nov. 21; Sp. p. 4604; Gaz. vol. 172; p. 796.
Manure-spreader. C. Johnson and C. Frank. No. 1,011,624; Dec. 12; Sp. p. 2799; Gaz. vol. 173; p. 466.
Manure spreader and loader. C. F. Way. No. 984,328; Feb. 14; Sp. p. 2338; Gaz. vol. 163; p. 395.
Map, Multipartite manifold-. H. W. Patton. No. 1,009,687; Nov. 21; Sp. p. 4546; Gaz. vol. 172; p. 783.
Map, Range-finder. D. W. Adams. No. 1,010,338; Nov. 28; Sp. p. 5892; Gaz. vol. 172; p. 1049.
Map, Road-. P. Weber. No. 997,166; July 4; Sp. p. 1207; Gaz. vol. 168; p. 195.
Map, Sectional. G. Detrick, E. R. Albaugh, J. C. Eicher, and J. M. Naugle. No. 993,228; May 23; Sp. p. 5127; Gaz. vol. 166; p. 924.
Map, Weather-. C. Kullmer. No. 1,002,851; Sept. 12; Sp. p. 1486; Gaz. vol. 170; p. 263.
Mapping-machine, Automatic. M. Bustamante (h). No. 986,437; Mar. 14; Sp. p. 1441; Gaz. vol. 164; p. 260.
Marble-shooter. W. F. Sweet. No. 994,887; June 13; Sp. p. 1761; Gaz. vol. 167; p. 311.
Marble-shooter. W. F. Sweet. No. 994,888; June 13; Sp. p. 1762; Gaz. vol. 167; p. 311.
Marble-shooter. W. F. Sweet. No. 1,011,665; Dec. 12; Sp. p. 2882; Gaz. vol. 173; p. 481.
Marcipan, Preserving. R. Moll, A. Isenhagen, and C. Rettmeyer. No. 995,625; June 20; Sp. p. 3350; Gaz. vol. 167; p. 590.
Marine craft. C. W. Call, Jr. No. 1,004,362; Sept. 26; Sp. p. 4781; Gaz. vol. 170; p. 845.
Marine engine, Two-cycle. C. W. Laskay. No. 1,001,866; Aug. 29; Sp. p. 5698; Gaz. vol. 169; p. 1043.
Marine table. J. A. Bakarcih. No. 983,111; Jan. 31; Sp. p. 6443; Gaz. vol. 162; p. 1119.
Marker attachment. C. W. Haas. No. 984,215; Feb. 14; Sp. p. 2100; Gaz. vol. 163; p. 356.
Marker attachment. L. R. Turner. No. 985,643; Feb. 28; Sp. p. 5172; Gaz. vol. 163; p. 914.
Marker, Automatic land-. P. Carroll, Jr. No. 997,114; July 4; Sp. p. 1090; Gaz. vol. 168; p. 177.
Marker, Land-. H. S. Kellander. No. 1,010,502; Dec. 5; Sp. p. 232; Gaz. vol. 173; p. 37.
Marking and spacing device. W. D. Adams. No. 1,000,659; Aug. 15; Sp. p. 3125; Gaz. vol. 169; p. 566.
Marking device for combined cultivators and fertilizer-distributers. W. D. Osbron. No. 992,041; May 9; Sp. p. 2554; Gaz. vol. 166; p. 454.
Marking-gage. A. A. Harvie. No. 998,688; July 25; Sp. p. 4549; Gaz. vol. 168; p. 829.
Marking sheep and other animals, Composition for. R. W. and C. W. Collinson. No. 993,348; May 30; Sp. p. 5395; Gaz. vol. 166; p. 997.
Marking-stake. M. F. Nourse. No. 995,281; June 13; Sp. p. 2550; Gaz. vol. 167; p. 441.
Marking-tool. J. A. Wickes. No. 1,005,090; Oct. 3; Sp. p. 1106; Gaz. vol. 171; p. 187.
Market-quotation indicator. W. J. Chapman and W. Robertson. No. 986,045; Mar. 7; Sp. p. 618; Gaz. vol. 164; p. 100.
Mask, Base-ball. E. J. Lahan. No. 991,859; May 9; Sp. p. 2201; Gaz. vol. 166; p. 393.
Mask, Base-ball. A. J. Reach. No. 1,012,223; Dec. 19; Sp. p. 4120; Gaz. vol. 173; p. 706.
Mask, Eye-bathing. J. D. Houston. No. 1,006,945; Oct. 24; Sp. p. 5265; Gaz. vol. 171; p. 926.
Mask for base-ball players. J. Gamble and E. K. Davis. No. 1,012,252; Dec. 19; Sp. p. 4176; Gaz. vol. 173; p. 716.
Mask or bandage, Face. L. A. Smith. No. 1,013,079; Dec. 26; Sp. p. 5966; Gaz. vol. 173; p. 1045.
Mask, Wrinkle-. A. Smith. No. 993,894; May 30; Sp. p. 6570; Gaz. vol. 166; p. 1184.
Mason's tool. G. Grundy. No. 1,005,964; Oct. 17; Sp. p. 3073; Gaz. vol. 171; p. 552.
Massage apparatus. J. P. O'Brien and H. Stoddard. No. 994,270; June 6; Sp. p. 347; Gaz. vol. 167; p. 59.
Massage apparatus. F. Pope. No. 1,004,300; Sept. 26; Sp. p. 4665; Gaz. vol. 170; p. 826.
Massage apparatus, Facial-. G. C. Beck. No. 1,007,636; Oct. 31; Sp. p. 6783; Gaz. vol. 171; p. 1219.
Massage device, Electromagnetic. E. H. Pryce. No. 985,547; Feb. 28; Sp. p. 4990; Gaz. vol. 163; p. 883.
Massage device, Hand-operated. C. M. Siebert, Jr. No. 1,001,175; Aug. 22; Sp. p. 4248; Gaz. vol. 169; p. 777.
Massage implement. C. Czinják. No. 998,328; July 18; Sp. p. 3783; Gaz. vol. 168; p. 673.
Massage implement. A. A. Griner. No. 1,005,024; Oct. 3; Sp. p. 995; Gaz. vol. 171; p. 166.
Massage instrument. D. Lee. No. 1,007,879; Nov. 7; Sp. p. 532; Gaz. vol. 172; p. 81.
Massage-machine. W. H. D. Spears. No. 1,008,215; Nov. 7; Sp. p. 1220; Gaz. vol. 172; p. 200.
Massage-tool, Pneumatic. C. O. Sobinski. No. 1,010,699; Dec. 5; Sp. p. 657; Gaz. vol. 173; p. 105.
Massage-vibrator. F. H. Brautigam. No. 1,001,501; Aug. 22; Sp. p. 4907; Gaz. vol. 169; p. 887.
Massage-vibrator, Electric. C. C. Ruprecht. No. 1,005,319; Oct. 10; Sp. p. 1637; Gaz. vol. 171; p. 293.
Massaging apparatus. H. Dark. No. 1,011,167; Dec. 12; Sp. p. 1730; Gaz. vol. 173; p. 302.
Massaging apparatus, Vibratory. E. Seger. No. 1,009,588; Nov. 21; Sp. p. 4364; Gaz. vol. 172; p. 752.
Massaging device for the gums. W. F. Strangman. No. 1,002,468; Sept. 5; Sp. p. 654; Gaz. vol. 170; p. 94.
Massaging implement. R. W. Griffith. No. 996,924; July 4; Sp. p. 673; Gaz. vol. 168; p. 110.
Mast, Extensible and retractable telescoping. A. Siewert. No. 989,069; Apr. 11; Sp. p. 1644; Gaz. vol. 165; p. 286.
Mast-hoop. S. J. Harris. No. 985,671; Feb. 28; Sp. p. 5229; Gaz. vol. 163; p. 924.
Mast-step. H. Bölsterli. No. 981,610; Jan. 17; Sp. p. 3229; Gaz. vol. 162; p. 548.
Mat: *See* Bath-mat; Change-mat; Door-mat; Wire mat.
Match. C. H. Palmer and J. W. Denmead. No. 985,833; Mar. 7; Sp. p. 148; Gaz. vol. 164; p. 26.
Match. J. A. E. Criswell. No. 988,246; Mar. 28; Sp. p. 5278; Gaz. vol. 164; p. 936.
Match. J. A. E. Criswell. No. 988,248; Mar. 28; Sp. p. 5286; Gaz. vol. 164; p. 937.
Match. J. A. E. Criswell. No. 988,249; Mar. 28; Sp. p. 5287; Gaz. vol. 164; p. 937.
Match. J. A. E. Criswell. No. 988,250; Mar. 28; Sp. p. 5289; Gaz. vol. 164; p. 937.
Match. J. A. E. Criswell. No. 988,251; Mar. 28; Sp. p. 5289; Gaz. vol. 164; p. 937.
Match. E. J. Kreidler. No. 1,002,526; Sept. 5; Sp. p. 772; Gaz. vol. 170; p. 113.
Match-box. S. C. Hirschberg. No. 982,363; Jan. 24; Sp. p. 4840; Gaz. vol. 162; p. 838.
Match-box. V. T. and H. E. Moys. No. 988,132; Mar. 28; Sp. p. 5066; Gaz. vol. 164; p. 899.
Match-box. M. P. Brazill. No. 988,168; Mar. 28; Sp. p. 5132; Gaz. vol. 164; p. 910.
Match-box. R. Feldra. No. 988,325; Apr. 4; Sp. p. 64; Gaz. vol. 165; p. 13.
Match-box. A. Zicard. No. 990,693; Apr. 25; Sp. p. 5239; Gaz. vol. 165; p. 904.
Match-box. F. J. Kristofek. No. 991,789; May 9; Sp. p. 2047; Gaz. vol. 166; p. 369.
Match-box. L. Zachara. No. 992,930; May 23; Sp. p. 4503; Gaz. vol. 166; p. 826.
Match-box. R. J. Allison. No. 993,139; May 23; Sp. p. 4957; Gaz. vol. 166; p. 897.
Match-box. M. Pétrocochino. No. 995,558; June 20; Sp. p. 3184; Gaz. vol. 167; p. 566.
Match-box. B. Lichtig and P. B. Adolph. No. 998,702; July 25; Sp. p. 4576; Gaz. vol. 168; p. 834.
Match-box. R. J. Johnston. No. 1,003,911; Sept. 19; Sp. p. 3717; Gaz. vol. 170; p. 662.
Match-box. J. S. Gates. No. 1,004,565; Oct. 3; Sp. p. 37; Gaz. vol. 171; p. 8.
Match-box. G. H. Deaton. No. 1,011,327; Dec. 12; Sp. p. 2111; Gaz. vol. 173; p. 360.
Match-box attachment. W. H. Gamble. No. 980,625; Jan. 3; Sp. p. 960; Gaz. vol. 162; p. 156.

Alphabetical list of inventions—Continued.

Match-box attachment for headwear. S. T. Skeen. No. 981,320; Jan. 10; Sp. p. 2625; Gaz. vol. 162; p. 427.
Match-box case. O. N. Hilton and L. Grossman. No. 1,004,429; Sept. 26; Sp. p. 4936; Gaz. vol. 170; p. 869.
Match-box case. O. N. Hilton. No. 1,008,265; Nov. 7; Sp. p. 1329; Gaz. vol. 172; p. 217.
Match-box-filling machine. B. G. Vaughan. No. 1,010,823; Dec. 5; Sp. p. 934; Gaz. vol. 173; p. 147.
Match-box holder. J. A. Cheape. No. 1,006,434; Oct. 17; Sp. p. 4105; Gaz. vol. 171; p. 716.
Match-box or the like. F. J. Kristofek. No. 991,788; May 9; Sp. p. 2045; Gaz. vol. 166; p. 368.
Match-composition ingredients, Producing. H. Staier. No. 1,011,650; Dec. 12; Sp. p. 2852; Gaz. vol. 173; p. 476.
Match-dispensing device. H. Macdonald. No. 996,779; July 4; Sp. p. 356; Gaz. vol. 168; p. 61.
Match-flare. J. Dean. No. 1,001,190; Aug. 22; Sp. p. 4286; Gaz. vol. 169; p. 782.
Match-flare. J. Dean. No. 1,001,191; Aug. 22; Sp. p. 4288; Gaz. vol. 169; p. 783.
Match-igniter and waste-match receiver. L. Re. No. 982,301; Jan. 24; Sp. p. 4716; Gaz. vol. 162; p. 815.
Match-machine. J. P. Wright. No. 1,000,223; Aug. 8; Sp. p. 2139; Gaz. vol. 169; p. 381.
Match-machine conveying device. O. H. Landvatter. No. 1,004,178; Sept. 26; Sp. p. 4431; Gaz. vol. 170; p. 784.
Match-making machine. A. Paulson. No. 992,586; May 16; Sp. p. 3779; Gaz. vol. 166; p. 675.
Match-making machine. B. G. Vaughan. No. 1,010,822; Dec. 5; Sp. p. 928; Gaz. vol. 173; p. 146.
Match-making machine. B. G. Vaughan. No. 1,010,827; Dec. 5; Sp. p. 949; Gaz. vol. 173; p. 148.
Match-making machines, Setting-head for. B. G. Vaughan. No. 1,010,824; Dec. 5; Sp. p. 942; Gaz. vol. 173; p. 147.
Match-making machines, Setting-head for. B. G. Vaughan. No. 1,010,825; Dec. 5; Sp. p. 945; Gaz. vol. 173; p. 148.
Match-making machines, Setting-head for. B. G. Vaughan. No. 1,010,826; Dec. 5; Sp. p. 947; Gaz. vol. 173; p. 148.
Match-receptacle. G. F. Pinsuti. No. 994,784; June 13; Sp. p. 1503; Gaz. vol. 167; p. 276.
Match-receptacle. R. L. Darden. No. 998,235; July 18; Sp. p. 3553; Gaz. vol. 168; p. 637.
Match-safe. J. R. Layton. No. 980,293; Jan. 3; Sp. p. 213; Gaz. vol. 162; p. 41.
Match-safe. F. E. Mead. No. 988,887; Apr. 4; Sp. p. 1257; Gaz. vol. 165; p. 201.
Match-safe. C. D. Dellinger. No. 990,118; Apr. 18; Sp. p. 3896; Gaz. vol. 165; p. 673.
Match-safe. F. B. Colmyer. No. 998,468; July 18; Sp. p. 4065; Gaz. vol. 168; p. 720.
Match-safe. A. D. Hallett. No. 1,003,357; Sept. 12; Sp. p. 2564; Gaz vol. 170; p. 441.
Match-safe. W. N. Sewell. No. 1,004,090; Sept. 26; Sp. p. 4226; Gaz. vol. 170; p. 753.
Match-safe. A. S. Durrum. No. 1,007,546; Oct. 31; Sp. p. 6589; Gaz. vol. 171; p. 1189.
Match-safe. A. S. Durrum. No. 1,007,547; Oct. 31; Sp. p. 6591; Gaz. vol. 171; p. 1189.
Match-safe. H. Mick. No. 1,008,486; Nov. 14; Sp. p. 1953; Gaz. vol. 172; p. 334.
Match-safe. O. A. Chaney. No. 1,008,051; Nov. 14; Sp. p. 2952; Gaz. vol. 172; p. 493.
Match-safe. A. F. Fisher. No. 1,009,060; Nov. 21; Sp. p. 3200; Gaz. vol. 172; p. 567.
Match safe, igniter, and cigar-cutter. E. P. Smith. No. 1,008,994; Nov. 14; Sp. p. 3048; Gaz. vol. 172; p. 506.
Match-safe, Novelty. G. C. Openshaw. No. 998,384; July 18; Sp. p. 3907; Gaz. vol. 168; p. 692.
Match-safe, Pocket. J. H. Royer. No. 998,399; July 18; Sp. p. 3933; Gaz. vol. 168; p. 697.
Match-safe, wind-shield, cigar-holder, and card-case, Combined. K. E. Johansson. No. 989,978; Apr. 18; Sp. p. 3628; Gaz. vol. 165; p. 628.
Match-splint-assembling machine. J. G. Sjöström. No. 1,011,506; Dec. 12; Sp. p. 2482; Gaz. vol. 173; p. 423.
Match-splint carrier. F. C. Dininny. No. 1,002,827; Sept. 12; Sp. p. 1430; Gaz. vol. 170; p. 255.
Match-splint-cleaning machine. M. San. No. 985,844; Mar. 7; Sp. p. 182; Gaz. vol. 164; p. 20.
Match-splint-straightening machine. M. San. No. 993,277; May 23; Sp. p. 5233; Gaz. vol. 166; p. 939.
Matches, Making. J. A. E. Criswell. No. 988,254; Mar. 28; Sp. p. 5297; Gaz. vol. 164; p. 938.
Matches, Manufacture of. J. A. E. Criswell. No. 988,247; Mar. 28; Sp. p. 5280; Gaz. vol. 164; p. 937.
Matches, Manufacture of. J. A. E. Criswell. No. 988,252; Mar. 28; Sp. p. 5290; Gaz. vol. 164; p. 937.
Matches, Manufacture of. J. A. E. Criswell. No. 988,253; Mar. 28; Sp. p. 5292; Gaz. vol. 164; p. 937.
Matches, Striking-surface for. C. V. Hodgetts. No 995,141; June 13; Sp. p. 2282; Gaz. vol. 167; p. 396.
Matches, toothpicks, or the like, Receptacle for holding. G. W. Coble. No. 982,411; Jan. 24; Sp. p. 4934; Gaz. vol. 162; p. 854.
Mathematical instrument. R. C. Coxhead. No. 985,978; Mar. 7; Sp. p. 484; Gaz. vol. 164; p. 77.
Mathematical instrument. A. Garinger. No. 1,007,937; Nov. 7; Sp. p. 656; Gaz. vol. 172; p. 102.
Mathematical instrument. A. Garinger. No. 1,010,612; Dec. 5; Sp. p. 475; Gaz. vol. 173; p. 74.
Matrix-drying press. A. H. Cruse. No. 1,008,528; Nov. 14; Sp. p. 2034; Gaz. vol. 172; p. 348.
Matrix-drying press. G. E. Pancoast. No. 1,008,556; Nov. 14; Sp. p. 2097; Gaz. vol. 172; p. 359.
Matrix-marking machine. J. S. Bancroft and M. C. Indahl. No. 1,008,302; Nov. 14; Sp. p. 1441; Gaz. vol. 172; p. 269.
Matrix-milling machine. J. S. Bancroft and M. C. Indahl. No. 1,008,304; Nov. 14; Sp. p. 1464; Gaz. vol. 172; p. 270.
Matrix-press, Electrically-heated. H. B. Gale. No. 987,293; Mar. 21; Sp. p. 3241; Gaz. vol. 164; p. 585.
Matrix-setting and line-casting machine. H. Degener. No. 982,174; Jan. 17; Sp. p. 4421; Gaz. vol. 162; p. 741.
Matrix-setting and line-casting machine. H. Degener. No. 989,575; Apr. 18; Sp. p. 2745; Gaz. vol. 165; p. 489.
Matrix-setting and line-casting machine. J. Dorneth. No. 1,000,157; Aug. 8; Sp. p. 1994; Gaz. vol. 169; p. 357.
Matrix-setting and type-line-casting machine. H. Degener. No. 1,011,590; Dec. 12; Sp. p. 2712; Gaz. vol. 173; p. 455.
Matrix-setting machine. C. Muehleisen. No. 1,008,186; Nov. 7; Sp. p. 1146; Gaz. vol. 172; p. 189.
Matrix-straightening device. E. J. Hearst. No. 997,811; July 11; Sp. p. 2596; Gaz. vol. 168; p. 446.
Matte and smelting of ores, Apparatus for the production of. R. R. Moore and J. H. Kees. No. 985,195; Feb. 28; Sp. p. 4187; Gaz. vol. 163; p. 762.
Matting. C. H. Oakley. No. 997,319; July 11; Sp. p. 1526; Gaz. vol. 168; p. 277.
Mattress. W. P. Heermans. No. 992,354; May 16; Sp. p. 3299; Gaz. vol. 166; p. 594.
Mattress. W. C. Stapely. No. 1,002,006; Aug. 29; Sp. p. 6016; Gaz. vol. 169; p. 1088.
Mattress. J. P. Cohnen. No. 1,004,745; Oct. 3; Sp. p. 429; Gaz. vol. 171; p. 71.
Mattress. M. Van Gelder. No. 1,009,703; Nov. 21; Sp. p. 4574; Gaz. vol. 172; p. 788.
Mattress, Adjustable. A. Borés. No. 983,118; Jan. 31; Sp. p. 6455; Gaz. vol. 162; p. 1122.
Mattress for river-work, Curtain-. L. G. Hare. No 994,999; June 13; Sp. p. 1994; Gaz. vol. 167; p. 349.
Mattress-frame. F. G. Gale. No. 986,052; Mar. 7; Sp. p. 636; Gaz. vol. 164; p. 102.
Mattress, Metallic. C. J. Witzel. No. 989,316; Apr. 11; Sp. p. 2174; Gaz. vol. 165; p. 370.
Mattress, Revetment-. C. C. Condie. No. 983,209; Jan. 31; Sp. p. 6621; Gaz. vol. 162; p. 1151.
Mattress, Revetment-. C. C. Condie. No. 984,121; Feb. 14; Sp. p. 1885; Gaz. vol. 163; p. 323.
Mattress, Sanitary. L. H. Vincent. No. 1,001,909; Aug. 29; Sp. p. 5805; Gaz. vol. 169; p. 1057.
Mattress side guard, Spring-. A. J. Kreuzkamp. No. 984,766; Feb. 21; Sp. p. 3301; Gaz. vol. 163; p. 582.
Mattress side guard, Spring-. A. J. Kreuzkamp. No. 984,938; Feb. 21; Sp. p. 3625; Gaz. vol. 163; p. 639.
Mattress-spring-stretching device. J. C. Galvan. No. 988,184; Mar. 28; Sp. p. 5161; Gaz. vol. 164; p. 915.
Mattress, Terrace-. M. Von Below. No. 984,324; Feb. 14; Sp. p. 2325; Gaz. vol. 163; p. 394.
Mattress, Wire. T. Klipfel. No. 1,008,040; Nov. 7; Sp. p. 849; Gaz. vol. 172; p. 135.
Mausoleum. H. A. Blyth. No. 980,750; Jan. 3; Sp. p. 1219; Gaz. vol. 162; p. 196
Mausoleum. W. R. Clayton. No. 1,002,223; Sept. 5; Sp. p. 70; Gaz. vol. 170; p. 8.
Mausoleum. J. B. MacKay. No. 1,008,421; Nov. 14; Sp. p. 1785; Gaz. vol. 172; p. 311.
Mausoleum. T. J. Moore. No. 1,012,893; Dec. 26; Sp. p. 5559; Gaz. vol. 173; p. 980.
Mausoleum construction. J. B. King, W. E. Hughes, and F. W. Hall. No. 998,908; July 25; Sp. p. 5060; Gaz. vol. 168; p. 908.
Measure. J. A. Kimball. No. 991,322; May 2; Sp. p. 1067; Gaz. vol. 166; p. 178.
Measure and gage, Skirt. A. E. Lowerre. No. 991,159; May 2; Sp. p. 708; Gaz. vol. 166; p. 120.
Measure attachment, Tape-. J. Titchell. No. 991,103; May 2; Sp. p. 570; Gaz. vol. 166; p. 99.
Measure attachment, Tape-. T. W. Hanrath. No. 1,001,142; Aug. 22; Sp. p. 4199; Gaz. vol. 169; p. 768.
Measure, Bottle-stopper. W. E. Mowers. No. 993,269; May 23; Sp. p. 5221; Gaz. vol. 166; p. 936.
Measure, Computing yard-. D. H. Layne. No. 988,790; Apr. 4; Sp. p. 1069; Gaz. vol. 165; p. 171.
Measure for use on bowling-greens, Tape-. F. Fitton and E. Milnes. No. 996,476; June 27; Sp. p. 5237; Gaz. vol. 167; p. 918.
Measure, Grocer's. J. D. Willard. No. 988,420; Apr. 4; Sp. p. 281; Gaz. vol. 165; p. 45.
Measure indicator, Liquid-. I. C. Mastrup. No. 992,370; May 16; Sp. p. 3333; Gaz. vol. 166; p. 600.
Measure, Liquid-. A. W. Bumstead. No. 1,012,517; Dec. 19; Sp. p. 4689; Gaz. vol. 173; p. 805.
Measure, Log-. J. T. Castro. No. 991,478; May 9; Sp. p. 1389; Gaz. vol. 166; p. 262.
Measure, Steel tape-. K. G. Shutt. No. 987,500; Mar. 21; Sp. p. 3671; Gaz. vol. 164; p. 655.
Measure, Tape-. J. Klein. No. 1,011,628; Dec. 12; Sp. p. 2807; Gaz. vol. 173; p. 468.

Measurement-indicating instrument. F. G. Stimson. No. 990,605; Apr. 25; Sp. p. 5026; Gaz. vol. 165; p. 876.
Measurement register, Lumber-. J. W. Haley and C. B. Yelton. No. 984,908; Feb. 21; Sp. p. 3562; Gaz. vol. 163; p. 629.
Measurements by means of flowing liquid, Device for making. M. Arndt. No. 981,151; Jan. 10; Sp. p. 2226; Gaz. vol. 162; p. 367.
Measurements, Device for taking garment. C. G. Rubin. No. 996,281; June 27; Sp. p. 4798; Gaz. vol. 167; p. 850.
Measurements, Instrument for making micrometric. P. Roch and E. Challet. No. 1,005,883; Oct. 17; Sp. p. 2882; Gaz. vol. 171; p. 523.
Measurer, Foot-. J. O'Sullivan. No. 1,010,451; Dec. 5; Sp. p. 94; Gaz. vol. 173; p. 19.
Measurer, Liquid-. P. Colozza. No. 1,002,224; Sept. 5; Sp. p. 73; Gaz. vol. 170; p. 8.
Measurer, Skirt-. R. N. Firestone. No. 1,000,792; Aug. 15; Sp. p. 3408; Gaz. vol. 169; p. 612.
Measuring and calculating instrument. J. D. Pierce. No. 990,385; Apr. 25; Sp. p. 4526; Gaz. vol. 165; p. 799.
Measuring and cutting machine, Cloth. E. Zipper. No. 990,026; Apr. 18; Sp. p. 3712; Gaz. vol. 165; p. 644.
Measuring and discharging device, Liquid. T. H. Madgett. No. 1,004,053; Sept. 26; Sp. p. 4119; Gaz. vol. 170; p. 740.
Measuring and dispensing attachment for bins, Combined. L. B. Thomas. No. 1,005,363; Oct. 10; Sp. p. 1735; Gaz. vol. 171; p. 309.
Measuring and display strip for ribbons and fabrics, Protective. A. Shackleton. No. 1,009,799; Nov. 28; Sp. p. 4796; Gaz. vol. 172; p. 868.
Measuring and filling apparatus. R. Schilling. No. 994,875; June 13; Sp. p. 1718; Gaz. vol. 167; p. 307.
Measuring and filling machine. F. C. Musso. No. 997,933; July 11; Sp. p. 2858; Gaz. vol. 168; p. 488.
Measuring and indicating apparatus. W. A. Frank. No. 1,006,473; Oct. 24; Sp. p. 4210; Gaz. vol. 171; p. 759.
Measuring and indicating instruments, Contacting device for electrical. E. Haagn. No. 1,004,420; Sept. 26; Sp. p. 4906; Gaz. vol. 170; p. 864.
Measuring and indicating lengths of woven materials, Device for. H. W. Mettler. No. 1,011,635; Dec. 12; Sp. p. 2821; Gaz. vol. 173; p. 470.
Measuring and indicating machine, Cloth. G. Elin. No. 1,009,393; Nov. 21; Sp. p. 3969; Gaz. vol. 172; p. 686.
Measuring and indicating sizes of tiles, &c., Automatic apparatus for. W. B. Updegraff. No. 992,926; May 23; Sp. p. 4495; Gaz. vol. 166; p. 824.
Measuring and indicating sizes of tiles, &c., Electric apparatus for. W. B. Updegraff. No. 980,851; Jan. 3; Sp. p. 1433; Gaz. vol. 162; p. 230.
Measuring and marking instrument. J. E. Tschop. No. 986,783; Mar. 14; Sp. p. 2172; Gaz. vol. 164; p. 379.
Measuring and mold-filling box. F. E. Kling. No. 1,009,153; Nov. 21; Sp. p. 3376; Gaz. vol. 172; p. 597.
Measuring and price-calculating machine, Automatic cloth-. R. H. Sheppe, H. H. Eaton, and C. D. Allen. No. 997,942; July 11; Sp. p. 2883; Gaz. vol. 168; p. 492.
Measuring and recording device, Profile. M. M. Cram. No. 987,863; Mar. 28; Sp. p. 4443; Gaz. vol. 164; p. 808.
Measuring and recording instrument. F. H. Carssow. No. 992,110; May 9; Sp. p. 2679; Gaz. vol. 166; p. 477.
Measuring and registering apparatus, Liquid. G. Neudecker. No. 1,012,696; Dec. 26; Sp. p. 5090; Gaz. vol. 173; p. 912.
Measuring and regulating the concentration of dye liquors, Apparatus for. W. Bratkowski. No. 1,002,635; Sept. 5; Sp. p. 1015; Gaz. vol. 170; p. 151.
Measuring and winding machine, Lace. H. Friedmann. No. 1,000,167; Aug. 8; Sp. p. 2016; Gaz. vol. 169; p. 361.
Measuring apparatus. D. C. McCan. No. 986,730; Mar. 14; Sp. p. 2061; Gaz. vol. 164; p. 361.
Measuring apparatus. J. Stevens. No. 995,812; June 20; Sp. p. 3764; Gaz. vol. 167; p. 656.
Measuring apparatus. H. W. Welsh. No. 1,011,540; Dec. 12; Sp. p. 2567; Gaz. vol. 173; p. 435.
Measuring apparatus, Feed-. J. J. Smith. No. 998,994; July 25; Sp. p. 5264; Gaz. vol. 168; p. 937.
Measuring apparatus, Liquid-. H. Lane. No. 987,892; Mar. 28; Sp. p. 4531; Gaz. vol. 164; p. 817.
Measuring apparatus, Measuring vessel for liquid-. P. F. Danielsson. No. 1,000,079; Aug. 8; Sp. p. 1836; Gaz. vol. 169; p. 332.
Measuring apparatus, Tile-. M. R. Degelow. No. 1,011,123; Dec. 5; Sp. p. 1587; Gaz. vol. 173; p. 252.
Measuring appliance. A. Wurtzel. No. 988,683; Apr. 4; Sp. p. 840; Gaz. vol. 165; p. 135.
Measuring areas by means of electric-resistance coils, Apparatus for. J. J. Götz. No. 981,552; Jan. 10; Sp. p. 3103; Gaz. vol. 162; p. 506.
Measuring chute, Grain-. H. Decremer. No. 985,329; Feb. 28; Sp. p. 4486; Gaz. vol. 163; p. 807.
Measuring device. T. M. House. No. 981,086; Jan. 10; Sp. p. 2083; Gaz. vol. 162; p. 343.
Measuring device. W. B. Spencer. No. 981,707; Jan. 17; Sp. p. 3422; Gaz. vol. 162; p. 579.
Measuring device. S. Hymes. No. 986,173; Mar. 7; Sp. p. 869; Gaz. vol. 164; p. 140.
Measuring device. F. Contenti. No. 1,000,151; Aug. 8; Sp. p. 1979; Gaz. vol. 169; p. 355.
Measuring device. W. E. Morton. No. 1,012,894; Dec. 26; Sp. p. 5562; Gaz. vol. 173; p. 981.
Measuring device, Adjustable. S. M. Teeter. No. 984,452; Feb. 14; Sp. p. 2579; Gaz. vol. 163; p. 436.
Measuring device, Color-. F. Hellige. No. 998,091; July 18; Sp. p. 3239; Gaz. vol. 168; p. 586.
Measuring device, Dress-. N. E. Jaeger. No. 980,963; Jan. 10; Sp. p. 1802; Gaz. vol. 162; p. 300.
Measuring device, Fluid-. S. L. Nicholson. No. 981,789; Jan. 17; Sp. p. 3587; Gaz. vol. 162; p. 609.
Measuring device for cutting garments. C. Ryan. No. 1,004,593; Oct. 3; Sp. p. 93; Gaz. vol. 171; p. 17.
Measuring device for gas-machines. J. F. Andres. No. 994,102; May 30; Sp. p. 6992; Gaz. vol. 166; p. 1254.
Measuring device for spectacles and eyeglasses. J. Jaffe. No. 993,252; May 23; Sp. p. 5182; Gaz. vol. 166; p. 931.
Measuring device, Liquid-. W. B. Jackson. No. 983,058; Jan. 31; Sp. p. 6343; Gaz. vol. 162; p. 1102.
Measuring device, Liquid-. G. A. Robinson. No. 991,802; May 9; Sp. p. 2082; Gaz. vol. 166; p. 373.
Measuring device, Skirt-. S. M. Allen. No. 990,619; Apr. 25; Sp. p. 5053; Gaz. vol. 165; p. 880.
Measuring device, Skirt-. E. J. Bennet. No. 1,003,692; Sept. 19; Sp. p. 3299; Gaz. vol. 170; p. 590.
Measuring device, Tailor's. H. H. Gordon. No. 988,459; Apr. 4; Sp. p. 358; Gaz. vol. 165; p. 58.
Measuring device, Temple-. E. L. Nero. No. 987,315; Mar. 21; Sp. p. 3298; Gaz. vol. 164; p. 592.
Measuring gaseous fluids, Automatic recording apparatus for. C. F. Simon. No. 1,009,448; Nov. 21; Sp. p. 4094; Gaz. vol. 172; p. 706.
Measuring gases, Device for. A. S. Mann. No. 996,498; June 27; Sp. p. 5277; Gaz. vol. 167; p. 925.
Measuring installation, Electrical. B. G. Jamieson. No. 989,711; Apr. 18; Sp. p. 3037; Gaz. vol. 165; p. 535.
Measuring instrument. M. C. Rypinski. No. 985,457; Feb. 28; Sp. p. 4787; Gaz. vol. 163; p. 851.
Measuring instrument. C. E. Holmes. No. 994,923; June 13; Sp. p. 1838; Gaz. vol. 167; p. 323.
Measuring instrument. J. F. Cavanagh and W. W. Bardsley. No. 997,648; July 11; Sp. p. 2196; Gaz. vol. 168; p. 389.
Measuring instrument. W. H. Pratt. No. 1,000,941; Aug. 15; Sp. p. 3710; Gaz. vol. 169; p. 665.
Measuring instrument. D. Adams. No. 1,010,007; Nov. 28; Sp. p. 5231; Gaz. vol. 172; p. 937.
Measuring instrument, Angle-. F. J. B. Cordeiro and C. Pulfrich. No. 994,061; May 30; Sp. p. 6903; Gaz. vol. 166; p. 1240.
Measuring instrument, Compound. M. Clarke. No. 1,007,269; Oct. 31; Sp. p. 5988; Gaz. vol. 171; p. 1093.
Measuring instrument, Electric. E. Thomson and R. Shand. No. 996,377; June 27; Sp. p. 5022; Gaz. vol. 167; p. 884.
Measuring instrument, Electric. W. H. Pratt. No. 1,000,942; Aug. 15; Sp. p. 3711; Gaz. vol. 169; p. 665.
Measuring instrument, Electrical. M. C. Rypinski. No. 985,456; Feb. 28; Sp. p. 4786; Gaz. vol. 163; p. 850.
Measuring instrument, Electrical. F. W. Roller. No. 995,292; June 13; Sp. p. 2567; Gaz. vol. 167; p. 445.
Measuring instrument, Electrical. S. M. Kintner. No. 999,800; Aug. 8; Sp. p. 1204; Gaz. vol. 169; p. 236.
Measuring instrument, Electrical. W. Klinckert. No. 1,008,549; Nov. 14; Sp. p. 2080; Gaz. vol. 172; p. 356.
Measuring instrument, Frequency-. R. Hartmann-Kempf. No. 996,713; July 4; Sp. p. 236; Gaz. vol. 168; p. 41.
Measuring instrument, Record. P. MacGahan. No. 1,010,160; Nov. 28; Sp. p. 5528; Gaz. vol. 172; p. 990.
Measuring instrument, Tailor's. A. Luongo. No. 1,009,427; Nov. 21; Sp. p. 4049; Gaz. vol. 172; p. 698.
Measuring light, Apparatus for. J. F. Martin. No. 1,000,831; Aug. 15; Sp. p. 3482; Gaz. vol. 169; p. 626.
Measuring-machine. E. A. Luster. No. 997,840; July 11; Sp. p. 2654; Gaz. vol. 168; p. 456.
Measuring machine, Cloth-. O. Heckel and E. H. Spellmeyer, Jr. No. 1,001,266; Aug. 22; Sp. p. 4436; Gaz. vol. 169; p. 807.
Measuring machine, Cloth-. L. N. Moss. No. 1,005,453; Oct. 10; Sp. p. 1925; Gaz. vol. 171; p. 340.
Measuring machine, Rope-. M. E. Barton. No. 982,460; Jan. 24; Sp. p. 5062; Gaz. vol. 162; p. 874.
Measuring machines or devices, Register for. T. W. Fitzgerald. No. 1,009,295; Nov. 21; Sp. p. 3735; Gaz. vol. 172; p. 650.
Measuring, mixing, and delivering carbonated liquids, Apparatus for automatically. H. S. Cornish. No. 992,166; May 16; Sp. p. 2840; Gaz. vol. 166; p. 529.
Measuring plastic material, Scoop for. L. O. Wells. No. 992,828; May 23; Sp. p. 4277; Gaz. vol. 166; p. 789.
Measuring-pole. C. E. Malcolm. No. 1,003,626; Sept. 19; Sp. p. 3140; Gaz. vol. 170; p. 566.
Measuring-tapes, Magnetic attachment for. D. Crane. No. 992,170; May 16; Sp. p. 2847; Gaz. vol. 166; p. 530.
Measuring tensile and breaking strength, Apparatus for. L. Schopper. No. 990,302; Apr. 25; Sp. p. 4320; Gaz. vol. 165; p. 769.
Measuring the area of leather or the like, Machine for. W. A. Wüst. No. 1,003,850; Sept. 19; Sp. p. 3608; Gaz. vol. 170; p. 641.

Alphabetical list of inventions—Continued.

Measuring the steam passing through a pipe, Apparatus for. H. Ruthenberg. No. 985,635; Feb. 28; Sp. p. 5158; Gaz. vol. 163; p. 912.
Measuring the velocity of flowing streams, Device for. J. A. Cole. No. 993,029; May 23; Sp. p. 4721; Gaz. vol. 166; p. 859.
Measuring-tool. A. Zaino. No. 999,425; Aug. 1; Sp. p. 456; Gaz. vol. 169; p. 80.
Measuring-tool, Combination. P. A. Curtin. No. 987,703; Mar. 28; Sp. p. 4114; Gaz. vol. 164; p. 753.
Measuring vessel. W. H. Bender and R. F. Downey. No. 987,211; Mar. 21; Sp. p. 3073; Gaz. vol. 164; p. 557.
Meat and vegetable cutter. A. Haas. No. 986,166; Mar. 7; Sp. p. 851; Gaz. vol. 164; p. 138.
Meat-binder. N. Conrad. No. 985,113; Feb. 21; Sp. p. 3950; Gaz. vol. 163; p. 698.
Meat-block attachment. L. D. Frazier. No. 1,006,928; Oct. 24; Sp. p. 5232; Gaz. vol. 171; p. 920.
Meat-cake-molding utensil. L. P. Beaulieu and A. O. Bonin. No. 986,127; Mar. 7; Sp. p. 778; Gaz. vol. 164; p. 126.
Meat compressor and retainer. H. and W. S. Hutson. No. 990,271; Apr. 25; Sp. p. 4249; Gaz. vol. 165; p. 758.
Meat-curing apparatus. L. Grimm and I. Paul. No. 994,919; June 13; Sp. p. 1831; Gaz. vol. 167; p. 322.
Meat-cutter. J. J. Heckman. No. 984,668; Feb. 21; Sp. p. 3074; Gaz. vol. 163; p. 554.
Meat-cutter. M. E. Seeley. No. 1,010,190; Nov. 28; Sp. p. 5586; Gaz. vol. 172; p. 1000.
Meat-cutting machine. E. R. Smith. No. 997,017; July 4; Sp. p. 910; Gaz. vol. 168; p. 144.
Meat-hanger. L. P. Fisher. No. 998,286; July 18; Sp. p. 3686; Gaz. vol. 168; p. 657.
Meat-package. G. W. Seitz. No. 1,011,862; Dec. 12; Sp. p. 3280; Gaz. vol. 173; p. 545.
Meat-powder. J. G. Grotkass and K. Schirm. No. 1,005,539; Oct. 10; Sp. p. 2102; Gaz. vol. 171; p. 370.
Meat, Preservation of. P. A. F. Appelboom. No. 1,006,175; Oct. 17; Sp. p. 3540; Gaz. vol. 171; p. 626.
Meat, Preserving. O. L. Ahrens. No. 1,007,908; Nov. 7; Sp. p. 593; Gaz. vol. 172; p. 92.
Meat, Preserving. G. Delius and C. P. Tatro. No. 1,009,650; Nov. 21; Sp. p. 4469; Gaz. vol. 172; p. 770.
Meat-roaster. J. R. McLaughlin. No. 991,162; May 2; Sp. p. 716; Gaz. vol. 166; p. 121.
Meat sawing or cutting machine. G. T. Francisco. No. 986,450; Mar. 14; Sp. p. 1467; Gaz. vol. 164; p. 265.
Meat-smoking device. M. Heinemann. No. 986,566; Mar. 14; Sp. p. 1723; Gaz. vol. 164; p. 305.
Meat-spreader. J. Staudenmaier. No. 991,383; May 2; Sp. p. 1190; Gaz. vol. 166; p. 198.
Meat stamping or marking device. W. T. Conway. No. 996,004; June 20; Sp. p. 4146; Gaz. vol. 167; p. 722.
Meat stamping or marking device. A. D. Melvin. No. 996,025; June 20; Sp. p. 4191; Gaz. vol. 167; p. 729.
Meat-tenderer. M. Howard. No. 983,056; Jan. 31; Sp. p. 6340; Gaz. vol. 162; p. 1101.
Meat-tenderer. A. S. Bullock. No. 988,170; Mar. 28; Sp. p. 5136; Gaz. vol. 164; p. 911.
Meats during curing, Overhauling. W. C. Pypes. No. 987,488; Mar. 21; Sp. p. 3652; Gaz. vol. 164; p. 651.
Meats, Preserving. J. von Epler. No. 992,488; May 16; Sp. p. 3570; Gaz. vol. 166; p. 640.
Meats, Preserving. A. N. Chambers. No. 997,179; July 4; Sp. p. 1232; Gaz. vol. 168; p. 199.
Meats, Preserving. F. J. Gardner. No. 1,011,182; Dec. 12; Sp. p. 1761; Gaz. vol. 173; p. 307.
Meats, Wrapping for cased. G. Hoefer and G. A. Strohhaecker. No. 982,497; Jan. 24; Sp. p. 5130; Gaz. vol. 162; p. 885.
Mechanical junctures, Making homogeneous. A. B. Herrick. No. 1,012,077; Dec. 19; Sp. p. 3787; Gaz. vol. 173; p. 656.
Mechanical motor. P. Homishak. No. 985,674; Feb. 28; Sp. p. 5235; Gaz. vol. 163; p. 924.
Mechanical movement. P. Lord. No. 987,385; Mar. 21; Sp. p. 3438; Gaz. vol. 164; p. 616.
Mechanical movement. T. A. C. Both. No. 993,340; May 30; Sp. p. 5378; Gaz. vol. 166; p. 994.
Mechanical movement. T. A. C. Both. No. 994,114; June 6; Sp. p. 19; Gaz. vol. 167; p. 6.
Mechanical movement. G. Grosvenor. No. 994,384; June 6; Sp. p. 593; Gaz. vol. 167; p. 101.
Mechanical movement. J. A. Workman, Sr. No. 994,627; June 6; Sp. p. 1088; Gaz. vol. 167; p. 181.
Mechanical movement. T. A. C. Both. No. 994,713; June 13; Sp. p. 1320; Gaz. vol. 167; p. 250.
Mechanical movement. T. J. Hammons. No. 994,745; June 13; Sp. p. 1419; Gaz. vol. 167; p. 263.
Mechanical movement. C. J. Robertson. No. 998,859; July 25; Sp. p. 4947; Gaz. vol. 168; p. 889.
Mechanical movement. T. A. C. Both. No. 999,745; Aug. 8; Sp. p. 1094; Gaz. vol. 169; p. 218.
Mechanical movement. T. A. C. Both. No. 999,746; Aug. 8; Sp. p. 1100; Gaz. vol. 169; p. 218.
Mechanical movement. H. Wolke. No. 999,937; Aug. 8; Sp. p. 1490; Gaz. vol. 169; p. 282.
Mechanical movement. P. Christman. No. 1,004,147; Sept. 26; Sp. p. 4364; Gaz. vol. 170; p. 773.
Mechanical movement. H. C. Shaw. No. 1,004,918; Oct. 3; Sp. p. 810; Gaz. vol. 171; p. 130.
Mechanical movement. M. H. Grundig. No. 1,005,198; Oct. 10; Sp. p. 1341; Gaz. vol. 171; p. 248.
Mechanical movement. H. Chalupa. No. 1,006,181; Oct. 17; Sp. p. 3553; Gaz. vol. 171; p. 629.
Mechanical movement. E. J. Gulick. No. 1,007,097; Oct. 31; Sp. p. 5603; Gaz. vol. 171; p. 1030.
Mechanical movement. J. L. Jackson. No. 1,007,108; Oct. 31; Sp. p. 5631; Gaz. vol. 171; p. 1034.
Mechanical movement. O. Banks. No. 1,009,127; Nov. 21; Sp. p. 3335; Gaz. vol. 172; p. 589.
Mechanical movement. G. J. Dourte. No. 1,010,604; Dec. 5; Sp. p. 463; Gaz. vol. 173; p. 72.
Mechanical movement. W. A. Jones. No. 1,011,126; Dec. 5; Sp. p. 1598; Gaz. vol. 173; p. 253.
Mechanical movement and electric-light socket. T. A. C. Both. No. 1,007,058; Oct. 31; Sp. p. 5502; Gaz. vol. 171; p. 1016.
Mechanical playing instruments, Coin-controlled mechanism for. A. J. Pohlmann. No. 990,667; Apr. 25; Sp. p. 5191; Gaz. vol. 165; p. 895.
Medical apparatus. E. A. Babler. No. 986,618; Mar. 14; Sp. p. 1827; Gaz. vol. 164; p. 324.
Medical appliance. J. W. Ballard. No. 993,945; May 30; Sp. p. 6672; Gaz. vol. 166; p. 1201.
Medical applicator. R. W. Ammons. No. 1,006,341; Oct. 17; Sp. p. 3908; Gaz. vol. 171; p. 683.
Medical radiator for use in beds. C. Ferrari and C. Gallo. No. 981,628; Jan. 17; Sp. p. 3268; Gaz. vol. 162; p. 555.
Medicament and producing the same. A. D. Barr. No. 1,005,137; Oct. 10; Sp. p. 1201; Gaz. vol. 171; p. 226.
Medicinal applicator and swab. J. A. Bartholomew. No. 982,232; Jan. 24; Sp. p. 4552; Gaz. vol. 162; p. 791.
Medicinal composition containing oil. O. K. Zwingenberger. No. 1,012,788; Dec. 26; Sp. p. 5312; Gaz. vol. 173; p. 946.
Medicinal composition, Producing a. H. Rieck. No. 992,254; May 16; Sp. p. 3059; Gaz. vol. 166; p. 558.
Medicinal cup. M. Zuckerman. No. 999,289; Aug. 1; Sp. p. 181; Gaz. vol. 169; p. 35.
Medicinal-powder toller. J. Toskov. No. 985,303; Feb. 28; Sp. p. 4442; Gaz. vol. 163; p. 798.
Medicine, Digestive. R. Ehrmann. No. 1,003,347; Sept. 12; Sp. p. 2544; Gaz. vol. 170; p. 438.
Medicine-distributer for stock. G. L. Owens. No. 985,201; Feb. 28; Sp. p. 4200; Gaz. vol. 163; p. 764.
Megaphone. F. B. Cather. No. 986,139; Mar. 7; Sp. p. 797; Gaz. vol. 164; p. 129.
Megaphone. M. O. Smith. No. 999,408; Aug. 1; Sp. p. 424; Gaz. vol. 169; p. 75.
Melting and reduction furnace, Electric. H. B. Lorentzen. No. 996,492; June 27; Sp. p. 5269; Gaz. vol. 167; p. 924.
Melting-furnace. J. R. Flaherty. No. 1,003,444; Sept. 19; Sp. p. 2738; Gaz. vol. 170; p. 502.
Melting-furnace, Electric. K. A. F. Hiorth. No. 980,781; Jan. 3; Sp. p. 1286; Gaz. vol. 162; p. 207.
Memorandum-pad and wallet, Combined. O. Mitchell. No. 1,011,228; Dec. 12; Sp. p. 1867; Gaz. vol. 173; p. 323.
Memorandum pads and calendars, Stand for. W. M. Chamberlin, Jr. No. 992,850; May 23; Sp. p. 4324; Gaz. vol. 166; p. 796.
Memorandum-slip clip. A. J. Keck. No. 995,605; June 20; Sp. p. 3312; Gaz. vol. 167; p. 583.
Mercantile recording apparatus. A. N. Quidor. No. 980,673; Jan. 3; Sp. p. 1084; Gaz. vol. 162; p. 172.
Mercerizing cotton, preferably in form of skeins. P. Hahn. No. 994,076; May 30; Sp. p. 6939; Gaz. vol. 166; p. 1245.
Mercerizing-machine. G. E. Drum and J. H. Skitt. No. 983,542; Feb. 7; Sp. p. 699; Gaz. vol. 163; p. 97.
Mercerizing-machine. G. E. Drum and J. H. Skitt. No. 983,543; Feb. 7; Sp. p. 616; Gaz. vol. 163; p. 98.
Mercury compound, Organic. M. Engelmann. No. 1,001,829; Aug. 29; Sp. p. 5622; Gaz. vol. 169; p. 1030.
Mercury from poor ores by electrolysis, Separating. B. Szilard. No. 980,364; Jan. 3; Sp. p. 374; Gaz. vol. 162; p. 66.
Mercury-meter. W. H. Pratt. No. 993,872; May 30; Sp. p. 6529; Gaz. vol. 166; p. 1177.
Mercury-meter. E. S. Halsey. No. 1,003,453; Sept. 19; Sp. p. 2759; Gaz. vol. 170; p. 505.
Mercury-rectifier. F. P. Coffin. No. 1,011,160; Dec. 12; Sp. p. 1705; Gaz. vol. 173; p. 300.
Mercury-vapor apparatus. J. T. H. Dempster. No. 982,228; Jan. 17; Sp. p. 4535; Gaz. vol. 162; p. 760.
Mercury-vapor apparatus, Method of and apparatus for starting and operating. P. C. Hewitt. No. 998,175; July 18; Sp. p. 3408; Gaz. vol. 168; p. 615.
Merry-go-round. D. Stewart. No. 982,310; Jan. 24; Sp. p. 4735; Gaz. vol. 162; p. 818.
Merry-go-round. E. O. Spillman. No. 987,023; Mar. 14; Sp. p. 2653; Gaz. vol. 164; p. 459.
Merry-go-round. M. W. Palmer. No. 989,280; Apr. 11; Sp. p. 2089; Gaz. vol. 165; p. 357.
Merry-go-round. T. W. Ridpath. No. 1,002,933; Sept. 12; Sp. p. 1693; Gaz. vol. 170; p. 893.
Merry-go-round. J. S. Tuttle. No. 1,010,537; Dec. 5; Sp. p. 303; Gaz. vol. 173; p. 48.
Message-box. B. Jahn. No. 1,010,916; Dec. 5; Sp. p. 1155; Gaz. vol. 173; p. 181.
Metabolizer. J. von der Kammer. No. 987,805; Mar. 28; Sp. p. 4324; Gaz. vol. 164; p. 787.

Alphabetical list of inventions—Continued.

Metal, Accelerating the elimination of occluded slag from molten. R. Lock. No. 1,008,420; Nov. 14; Sp. p. 1784; Gaz. vol. 172; p. 311.
Metal, Antifriction. W. Wyers. No. 1,002,190; Aug. 29; Sp. p. 6359; Gaz. vol. 169; p. 1148.
Metal article, Rolled. F. N. Speller. No. 1,006,600; Oct. 24; Sp. p. 4524; Gaz. vol. 171; p. 806.
Metal articles, Machine for drawing and shaping hollow. R. H. Hackney. No. 1,011,193; Dec. 12; Sp. p. 1780; Gaz. vol. 173; p. 311.
Metal articles, Making compound. H. W. Fisher. No. 1,005,628; Oct. 10; Sp. p. 2336; Gaz. vol. 171; p. 401.
Metal articles, Method of and apparatus for making. C. A. Weeks. No. 985,753; Feb. 28; Sp. p. 5435; Gaz. vol. 163; p. 953.
Metal articles, Treating. J. C. Russell. No. 1,008,674; Nov. 14; Sp. p. 2373; Gaz. vol. 172; p. 401.
Metal-balling apparatus, Scrap-. D. H. Lentz. No. 1,012,872; Dec. 26; Sp. p. 5515; Gaz. vol. 173; p. 974.
Metal, Balling scrap. D. H. Lentz. No. 1,012,871; Dec. 26; Sp. p. 5507; Gaz. vol. 173; p. 973.
Metal bands, wire, &c., from electrolytic iron, Manufacture of. W. Pfanhauser. No. 1,001,770; Aug. 29; Sp. p. 5494; Gaz. vol. 169; p. 1009.
Metal bar or structural section, Solid-rolled cross-sectionally-H-shaped. H. Grey. No. 993,242; May 23; Sp. p. 5164; Gaz. vol. 166; p. 928.
Metal bars, Machine for and method of scalping flat. D. L. Summey. No. 1,011,265; Dec. 12; Sp. p. 1955; Gaz. vol. 173; p. 337.
Metal base. M. C. Neuner and G. R. Landon. No. 980,429; Jan. 3; Sp. p. 517; Gaz. vol. 162; p. 88.
Metal-bender. V. J. Mayo. No. 989,380; Apr. 11; Sp. p. 2305; Gaz. vol. 165; p. 390.
Metal-bending machine. I. W. Hoover. No. 986,713; Mar. 14; Sp. p. 2026; Gaz. vol. 164; p. 355.
Metal bending or forming dies. G. A. Ohl, Jr. No. 1,003,197; Sept. 12; Sp. p. 2228; Gaz. vol. 170; p. 383.
Metal-binding-strip machine. H. P. Thornton. No. 991,564; May 9; Sp. p. 1587; Gaz. vol. 166; p. 293.
Metal blanks, Apparatus for machining ends of. E. Einfeldt. No. 993,158; May 23; Sp. p. 4990; Gaz. vol. 166; p. 902.
Metal blooms, &c., Apparatus for pilgering. J. G. and G. R. Inshaw. No. 995,427; June 13; Sp. p. 2912; Gaz. vol. 167; p. 491.
Metal bodies, Means or apparatus for determining and indicating stress in. M. G. Clayton. No. 996,314; June 27; Sp. p. 4883; Gaz. vol. 167; p. 861.
Metal body and making the same, Compound. J. F. Monnot. No. 1,001,669; Aug. 29; Sp. p. 5271; Gaz. vol. 169; p. 975.
Metal-boring apparatus. W. H. Markland. No. 1,012,091; Dec. 19; Sp. p. 3818; Gaz. vol. 173; p. 662.
Metal box. H. H. Armstrong, C. H. Curry, and F. F. Harrold. No. 988,062; Mar. 28; Sp. p. 4933; Gaz. vol. 164; p. 876.
Metal cap. C. Hammer. No. 997,807; July 11; Sp. p. 2589; Gaz. vol. 168; p. 444.
Metal-creasing machine. H. C. H. Walsh. No. 1,002,342; Sept. 5; Sp. p. 379; Gaz. vol. 170; p. 53.
Metal-cutting machine. A. H. Matson. No. 991,627; May 9; Sp. p. 1718; Gaz. vol. 166; p. 315.
Metal-cutting mechanism. G. W. Weiss. No. 1,003,557; Sept. 19; Sp. p. 2970; Gaz. vol. 170; p. 542.
Metal-cutting shears. F. R. Dalbey. No. 990,636; Apr. 25; Sp. p. 5081; Gaz. vol. 165; p. 885.
Metal-cutting shears. J. R. George. No. 1,009,298; Nov. 21; Sp. p. 3740; Gaz. vol. 172; p. 651.
Metal elements, Uniting. C. F. Jacobs. No. 999,309; Aug. 1; Sp. p. 220; Gaz. vol. 169; p. 41.
Metal, Expanded. J. T. Simpson. No. 1,006,505; Oct. 24; Sp. p. 4301; Gaz. vol. 171; p. 771.
Metal-forming appliance. W. M. Scholl. No. 997,707; July 11; Sp. p. 2310; Gaz. vol. 168; p. 409.
Metal, Forming joints in. F. Rietzel. No. 1,005,880; Oct. 17; Sp. p. 2871; Gaz. vol. 171; p. 522.
Metal-forming machine. A. J. Lewis. No. 992,890; May 23; Sp. p. 4417; Gaz. vol. 166; p. 811.
Metal-founder's flask. W. J. Keep. No. 986,178; Mar. 7; Sp. p. 881; Gaz. vol. 164; p. 143.
Metal-founder's mold. J. F. Digan. No. 987,442; Mar. 21; Sp. p. 3557; Gaz. vol. 164; p. 634.
Metal from blast-furnace dust, Apparatus for recovering. H. C. Parker. No. 987,739; Mar. 28; Sp. p. 4187; Gaz. vol. 164; p. 764.
Metal from solutions, Extracting. E. E. Slaughter. No. 1,001,466; Aug. 22; Sp. p. 4851; Gaz. vol. 169; p. 875.
Metal-heating furnace. F. J. Nice. No. 988,019; Mar. 28; Sp. p. 4847; Gaz. vol. 164; p. 862.
Metal-heating furnace, Regenerative. J. R George. No. 1,003,733; Sept. 19; Sp. p. 3379; Gaz. vol. 170; p. 603.
Metal joint. A. Lukaszewske. No. 1,007,005; Oct. 24; Sp. p. 5391; Gaz. vol. 171; p. 945.
Metal leaf, Making and sizing an imitation-. W. A. Ker. No. 1,011,443; Dec. 12; Sp. p. 2339; Gaz. vol. 173; p. 400.
Metal, Machine for manufacturing expanded. H. Salmon. No. 999,265; Aug. 1; Sp. p. 139; Gaz. vol. 169; p. 26.
Metal, Making expanded. H. Hill. No. 980,638; Jan. 3; Sp. p. 979; Gaz. vol. 162; p. 160.
Metal, Making expanded. W. D. Forsyth. No. 1,007,027; Oct. 24; Sp. p. 5432; Gaz. vol. 171; p. 952.
Metal, Manufacturing expanded. H. Salmon. No. 999,264; Aug. 1; Sp. p. 138; Gaz. vol. 169; p. 26.
Metal, Method of and machine for extruding. D. L. Summey. No. 1,011,522; Dec. 12; Sp. p. 2518; Gaz. vol. 173; p. 429.
Metal, Method of and machine for extruding. D. L. Summey. No. 1,011,876; Dec. 12; Sp. p. 3309; Gaz. vol. 173; p. 550.
Metal-mixers, Safety-gate for. M. M. Supples. No. 1,006,700; Oct. 24; Sp. p. 4708; Gaz. vol. 171; p. 839.
Metal-mixing apparatus and process. F. E. Canda. No. 995,421; June 13; Sp. p. 2883; Gaz. vol. 167; p. 489.
Metal on celluloid, Mounting. W. H. Gorman. No. 1,008,029; Nov. 7; Sp. p. 826; Gaz. vol. 172; p. 131.
Metal or other sheets, Feed mechanism for. F. Eberhart. No. 1,003,998; Sept. 26; Sp. p. 3980; Gaz. vol. 170; p. 720.
Metal package. T. H. Kane. No. 994,468; June 6; Sp. p. 743; Gaz. vol. 167; p. 127.
Metal-pickling apparatus. L. C. Steele. No. 996,290; June 27; Sp. p. 4812; Gaz. vol. 167; p. 853.
Metal-planer. W. T. Sears. No. 987,263; Mar. 21; Sp. p. 3181; Gaz. vol. 164; p. 575.
Metal plate. E. L. Abbott. No. 988,921; Apr. 4; Sp. p. 1316; Gaz. vol. 165; p. 211.
Metal-plate-shaping machine. J. S. Worth. No. 1,003,849; Sept. 19; Sp. p. 3601; Gaz. vol. 170; p. 641.
Metal plates, making composite. L. B. Tebbetts, 2d. No. 1,011,524; Dec. 12; Sp. p. 2532; Gaz. vol. 173; p. 430.
Metal-polish. C. Ellis. No. 999,491; Aug. 1; Sp. p. 582; Gaz. vol. 169; p. 102.
Metal, Process of and apparatus for treating molten. S. S. Deemer. No. 987,704; Mar. 28; Sp. p. 4115; Gaz. vol. 164; p. 753.
Metal prop, Flexible. A. Pittroff. No. 987,397; Mar. 21; Sp. p. 3468; Gaz. vol. 164; p. 620.
Metal, Ribbed expanded. J. Kahn. No. 987,374; Mar. 21; Sp. p. 3410; Gaz. vol. 164; p. 612.
Metal ring fabrics, Machine for manufacturing. R. Dollinger and G. Bischoff. No. 994,987; June 13; Sp. p. 1968; Gaz. vol. 167; p. 345.
Metal rods, bars, &c., Manufacturing hollow. A. Young and T. Rowlands. No. 993,631; May 30; Sp. p. 6015; Gaz. vol. 166; p. 1093.
Metal rods or bars, Apparatus for use in twisting. L. Härtel and L. Kissling. No. 983,896; Feb. 14; Sp. p. 1404; Gaz. vol. 163; p. 249.
Metal-roll-cutting machine. G. Knaus. No. 1,000,415; Aug. 15; Sp. p. 2569; Gaz. vol. 169; p. 478.
Metal rolls, Machine for cutting. G. Knaus. No. 980,969; Jan. 10; Sp. p. 1812; Gaz. vol. 162; p. 302.
Metal rolls, Machine for cutting. G. Knaus. No. 1,000,681; Aug. 15; Sp. p. 3165; Gaz. vol. 169; p. 573.
Metal sawing and trimming machine. H. G. Miller. No. 985,828; Mar. 7; Sp. p. 128; Gaz. vol. 164; p. 24.
Metal-sawing machine. C. A. Juengst. No. 1,012,204; Dec. 19; Sp. p. 4077; Gaz. vol. 173; p. 700.
Metal screen. H. S. Benson. No. 999,479; Aug. 1; Sp. p. 557; Gaz. vol. 169; p. 98.
Metal shape. T. V. Buckwalter. No. 1,007,845; Nov. 7; Sp. p. 465; Gaz. vol. 172; p. 69.
Metal-shearing machine. K. Wachter. No. 993,284; May 23; Sp. p. 5242; Gaz. vol. 166; p. 940.
Metal-shearing machine, Rotary. D. Lennox. No. 984,575; Feb. 21; Sp. p. 2878; Gaz. vol. 163; p. 513.
Metal sheet, Protected. E. T. Newsome. No. 1,002,301; Sept. 5; Sp. p. 262; Gaz. vol. 170; p. 35.
Metal sheets, Apparatus for catching, conveying, and cooling coated. L. C. Steele. No. 997,869; July 11; Sp. p. 2714; Gaz. vol. 168; p. 466.
Metal sheets, Machine for partially loosening or separating. W. R. Kinnear. No. 1,001,651; Aug. 29; Sp. p. 5221; Gaz. vol. 169; p. 968.
Metal sheets, Method of and apparatus for forming hermetically-sealed. E. T. Newsome. No. 1,002,303; Sept. 5; Sp. p. 265; Gaz. vol. 170; p. 36.
Metal-spinning machine. D. P. Fitzgerald. No. 1,004,763; Oct. 3; Sp. p. 468; Gaz. vol. 171; p. 77.
Metal spring. L. L. B. Denis. No. 1,008,794; Nov. 14; Sp. p. 2637; Gaz. vol. 172; p. 442.
Metal-stamping press. E. H. Vogel. No. 993,916; May 30; Sp. p. 6603; Gaz. vol. 166; p. 1190.
Metal-strand machine. W. G. Staples. No. 989,075; Apr. 11; Sp. p. 1656; Gaz. vol. 165; p. 288.
Metal-strap fastener. E. E. Flora. No. 997,186; July 4; Sp. p. 1241; Gaz. vol. 168; p. 201.
Metal-strip joint. T. F. Martin. No. 980,311; Jan. 3; Sp. p. 246; Gaz. vol. 162; p. 47.
Metal strips, foil, sheets, or ribbons, Apparatus for making. E. H. Strange. No. 993,904; May 30; Sp. p. 6583; Gaz. vol. 166; p. 1186.
Metal strips, Tool for use in fastening. E. E. Flora. No. 1,000,083; Aug. 8; Sp. p. 1842; Gaz. vol. 169; p. 333.
Metal structure. A. J. Bates. No. 1,010,408; Dec. 5; Sp. p. 3; Gaz. vol. 173; p. 3.
Metal structure, Expanded-. H. E. White. No. 993,930; May 30; Sp. p. 6632; Gaz. vol. 166; p. 1195.

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Metal structure, Expanded-. H. E. White. No. 1,008,877; Nov. 14; Sp. p. 2790; Gaz. vol. 172; p. 469.
Metal structures, Forming. A. J. Bates. No. 1,011,104; Dec. 5; Sp. p. 1546; Gaz. vol. 173; p. 245.
Metal-studding clip. T. Collins. No. 987,858; Mar. 28; Sp. p. 4431; Gaz. vol. 164; p. 806.
Metal sulfids, Metallurgy of. E. A. Ashcroft. No. 1,011,899; Dec. 19; Sp. p. 3381; Gaz. vol. 173; p. 593.
Metal sulfids, Metallurgy of. E. A. Ashcroft. No. 1,011,900; Dec. 19; Sp. p. 3385; Gaz. vol. 173; p. 593.
Metal surfaces, Blacking or dressing for. D. R. Franklin. No. 1,001,381; Aug. 22; Sp. p. 4700; Gaz. vol. 169; p. 848.
Metal surfaces, Polishing. A. Ridd. No. 988,664; Apr 4; Sp. p. 804; Gaz. vol. 165; p. 129.
Metal-swaging dies, Construction of. W. L. Ward. No. 998,216; July 18; Sp. p. 3498; Gaz. vol. 168; p. 630.
Metal tie. S. L. Riley. No. 990,904; May 2; Sp. p. 160; Gaz. vol. 166; p. 30.
Metal tie. A. B. Caton and E. A. Carter. No. 992,643; May 16; Sp. p. 3892; Gaz. vol. 166; p. 694.
Metal tie. W. H. Morgan. No. 1,003,637; Sept. 19; Sp. p. 3164; Gaz. vol. 170; p. 570.
Metal tie. W. H. Morgan. No. 1,003,638; Sept. 19; Sp. p. 3166; Gaz. vol. 170; p. 570.
Metal tie. W. H. Morgan. No. 1,003,639; Sept. 19; Sp. p. 3167; Gaz. vol. 170; p. 571.
Metal tie. W. H. Morgan. No. 1,003,640; Sept. 19; Sp. p. 3168; Gaz. vol. 170; p. 571.
Metal tie and clamp for securing rails to the same. W. H. Morgan. No. 1,010,673; Dec. 5; Sp. p. 597; Gaz. vol. 173; p. 96.
Metal tie and means for securing rails thereto. W. H. Morgan. No. 1,010,672; Dec. 5; Sp. p. 595; Gaz. vol. 173; p. 95.
Metal tie and rail-securing device. W. H. Morgan. No. 1,010,446; Dec. 5; Sp. p. 85; Gaz. vol. 173; p. 17.
Metal tubes, Apparatus for the manufacture or production of weldless or seamless. C. F. Williams and W. Dicks. No. 1,005,091; Oct. 3; Sp. p. 1107; Gaz. vol. 171; p. 187.
Metal tubes, Manufacturing. O. A. Simpson. No. 993,116; May 23; Sp. p. 4921; Gaz. vol. 166; p. 890.
Metal tubes or the like, Manufacture of. H. Reinhard. No. 989,643; Apr. 18; Sp. p. 2902; Gaz. vol. 165; p. 512.
Metal-turning tool. G. H. Newton. No. 993,615; May 30; Sp. p. 5985; Gaz. vol. 166; p. 1089.
Metal-working. W. R. Whitney. No. 1,008,762; Nov. 14; Sp. p. 2556; Gaz. vol. 172; p. 431.
Metal-working apparatus, Electric. E. Thomson. No. 1,012,934; Dec. 26; Sp. p. 5664; Gaz. vol. 173; p. 995.
Metal-working, Apparatus for autogenous. W. Brandes. No. 1,006,459; Oct. 24; Sp. p. 4187; Gaz. vol. 171; p. 754.
Metal-working machine. C. M. Spencer. No. 988,670; Apr. 4; Sp. p. 813; Gaz. vol. 165; p. 134.
Metal-working machine. B. M. W. Hanson. No. 1,000,517; Aug. 15; Sp. p. 2782; Gaz. vol. 169; p. 514.
Metal-working machine. E. C. Henn. No. 1,005,833; Oct. 17; Sp. p. 2763; Gaz. vol. 171; p. 504.
Metal-working machine. M. Lundin. No. 1,006,962; Oct. 24; Sp. p. 5294; Gaz. vol. 171; p. 930.
Metal-working machine. E. W. Wight. No. 1,009,948; Nov. 28; Sp. p. 5092; Gaz. vol. 172; p. 918.
Metal-working machine, Automatic. F. E. Brightman. No. 1,008,586; Nov. 14; Sp. p. 2174; Gaz. vol. 172; p. 371.
Metal-working machinery. C. C. Craley. No. 1,007,185; Oct. 31; Sp. p. 5822; Gaz. vol. 171; p. 1063.
Metals and alloys, Producing low-carbon. J. B. Huffard. No. 992,422; May 16; Sp. p. 3433; Gaz. vol. 166; p. 618.
Metals and alloys, Production of. A. Nieske and E. Müller. No. 993,270; May 23; Sp. p. 5222; Gaz. vol. 166; p. 937.
Metals and alloys, Treatment of. G. Bryant and C. H. Ivinson. No. 1,002,133; Aug. 29; Sp. p. 6246; Gaz. vol. 169; p. 1129.
Metals and minerals from stream-beds, Recovering valuable. C. D. Grove. No. 1,008,539; Nov. 14; Sp. p. 2063; Gaz. vol. 172; p. 352.
Metals, Cleaning. H. E. Genet. No. 980,627; Jan. 3; Sp. p. 962; Gaz. vol. 162; p. 157.
Metals containing copper, Briqueting. M. Glass. No. 1,008.254; Nov. 7; Sp. p. 1305; Gaz. vol. 172; p. 213.
Metals dense, Rendering porous. C. E. Swett. No. 986,519; Mar. 14; Sp. p. 1623; Gaz. vol. 164; p. 288.
Metals, Electrolytic deposit of. A. Rodeck. No. 1,003,799; Sept. 19; Sp. p. 3510; Gaz. vol. 170; p. 624.
Metals, Electrolytic manufacture of difficultly-soluble salts of heavy. C. Luckow. No. 1,006,389; Oct. 17; Sp. p. 4017; Gaz. vol. 171; p. 700.
Metals, Forming compound bodies of different. H. W. Fisher. No. 1,005,629; Oct. 10; Sp. p. 2338; Gaz. vol. 171; p. 402.
Metals from ores, Producing. R. P. Wheelock. No. 996,179; June 27; Sp. p. 4581; Gaz. vol. 167; p. 817.
Metals from the ores thereof, Method or process of and apparatus for extracting. J. H. Robertson. No. 1,001,449; Aug. 22; Sp. p. 4826; Gaz. vol. 169; p. 870.
Metals from their ores, Electrolytically extracting. W. D. Rennie. No. 988,210; Mar. 28; Sp. p. 5209; Gaz. vol. 164; p. 924.
Metals from their ores, Extracting. H. S. MacKay. No. 1,011,459; Dec. 12; Sp. p. 2371; Gaz. vol. 173; p. 405.
Metals from their ores, Extraction of. W. Hommel and H. T. Durant. No. 1,009,750; Nov. 28; Sp. p. 4697; Gaz. vol. 172; p. 852.
Metals, Method of and apparatus for treating. F. L. O. Wadsworth. No. 988,915; Apr. 4; Sp. p. 1303; Gaz. vol. 165; p. 210.
Metals, Perforating. A. Debus and E. Menne. No. 999,099; July 25; Sp. p. 5473; Gaz. vol. 168; p. 974.
Metals, Process of and apparatus for making clad. J. F. Monnot. No. 1,004,673; Oct. 3; Sp. p. 259; Gaz. vol. 171; p. 45.
Metals, Production of divided. F. Blau. No. 985,386; Feb. 28; Sp. p. 4605; Gaz. vol. 163; p. 825.
Metals, Reducing. R. J. McNitt. No. 993,391; May 30; Sp. p. 5489; Gaz. vol. 166; p. 1011.
Metals, Refining. W. C. Arsem. No. 998,665; July 25; Sp. p. 4501; Gaz. vol. 168; p. 821.
Metals, such as gold, silver, copper, or nickel, from their native ores, Extracting. W. D. Rennie. No. 989,802; Apr. 18; Sp. p. 3246; Gaz. vol. 165; p. 567.
Metals, Treating ferro. A. J. Rossi. No. 1,003,805; Sept. 19; Sp. p. 3520; Gaz. vol. 170; p. 626.
Metallic and glass construction. V. Olsen and O. Damm. No. 982,015; Jan. 17; Sp. p. 4126; Gaz. vol. 162; p. 688.
Metallic articles, Treating. T. B. Allen. No. 981,513; Jan. 10; Sp. p. 3026; Gaz. vol. 162; p. 493.
Metallic bodies, Treating. A. J. Rossi. No. 986,504; Mar. 14; Sp. p. 1592; Gaz. vol. 164; p. 283.
Metallic body. A. J. Rossi. No. 986,645; Mar. 14; Sp. p. 1892; Gaz. vol. 164; p. 334.
Metallic compounds, Separating. A. McKechnie and F. G. Beasley. No. 981,451; Jan. 10; Sp. p. 2920; Gaz. vol. 162; p. 472.
Metallic fender and mud-guard. A. Little. No. 989,619; Apr. 18; Sp. p. 2853; Gaz. vol. 165; p. 504.
Metallic hoop or band. S. and T. Svenson. No. 983,093; Jan. 31; Sp. p. 6409; Gaz. vol. 162; p. 1114.
Metallic leaf in rolls, Machine for packaging. C. E. Smith. No. 981,700; Jan. 17; Sp. p. 3412; Gaz. vol. 162; p. 577.
Metallic manganese and aluminum fluorid, Manufacturing. W. S. Rockey and H. Eldridge. No. 988,509; Apr. 4; Sp. p. 462; Gaz. vol. 165; p. 75.
Metallic oxids or other compounds of vanadium, molybdenum, tungsten, or similar metals and producing alloys of these metals, Reducing. G. Boericke. No. 993,338; May 30; Sp. p. 5376; Gaz. vol. 166; p. 994.
Metallic oxids, Reducing refractory. G. Boericke. No. 994,055; May 30; Sp. p. 6892; Gaz. vol. 166; p. 1238.
Metallic post. G. A. Hassel. No. 992,872; May 23; Sp. p. 4380; Gaz. vol. 166; p. 804.
Metallic sands or concentrates, Reduction plant for treatment of. G F. Rendall. No. 986,086; Mar. 7; Sp. p. 704; Gaz. vol. 164; p. 113.
Metallic tie. B. S. Rupp and J. W. Johnson. No. 1,005,317; Oct. 10; Sp. p. 1633; Gaz. vol. 171; p. 292.
Metallic tie. B. S. Rupp and J. W. Johnson. No. 1,005,318; Oct. 10; Sp. p. 1635; Gaz. vol. 171; p. 293.
Metallic tie and chair, Combined. O. S. Clark. No. 1,007,337; Oct. 31; Sp. p. 6126; Gaz. vol. 171; p. 1117.
Metallic tie and fastener. J. K. Mackeral and J. Cronin. No. 995,694; June 20; Sp. p. 3487; Gaz. vol. 167; p. 614.
Metallic tie and rail-fastener. C. E. McLane. No. 989,992; Apr. 18; Sp. p. 3655; Gaz. vol. 165; p. 633.
Metallic tie and rail-fastener. J. O. Brooks, F. E. Parsons, and G. J. Altstetter. No. 991,943; May 9; Sp. p. 2378; Gaz. vol. 166; p. 422.
Metallic tie and rail-fastener. J. O. Brooks, F. E. Parsons, and G. J. Altstetter. No. 991,944; May 9; Sp. p. 2380; Gaz. vol. 166; p. 423.
Metallic tie and rail-fastener. L. M. Sibley. No. 993,891; May 30; Sp. p. 6564; Gaz. vol. 166; p. 1183.
Metallic tie and rail-fastener. A. Williams. No. 994,549; June 6; Sp. p. 931; Gaz. vol. 167; p. 154.
Metallic tie and rail-fastener. J. Ifft. No. 994,589; June 6; Sp. p. 1014; Gaz. vol. 167; p. 169.
Metallic tie and rail-fastener. R. P. Hocter. No. 995,140; June 13; Sp. p. 2281; Gaz. vol. 167; p. 395.
Metallic tie and rail-fastener. J. Kich. No. 997,139; July 4; Sp. p. 1143; Gaz. vol. 168; p. 185.
Metallic tie and rail-fastener. W. Dean. No. 997,244; July 4; Sp. p. 1356; Gaz. vol. 168; p. 222.
Metallic tie and rail-fastener. S. Slyk. No. 998,412; July 18; Sp. p. 3958; Gaz. vol. 168; p. 701.
Metallic tie and rail-fastener. P. Tumo. No. 1,001,479; Aug. 22; Sp. p. 4870; Gaz. vol. 169; p. 879.
Metallic tie and rail-fastener. J. J. McGuirl. No. 1,002.070; Aug. 29; Sp. p. 6134; Gaz. vol. 169; p. 1109.
Metallic tie and rail-fastener. W. J. Burke. No. 1,003 328; Sept. 12; Sp. p. 2506; Gaz. vol. 170; p. 431.
Metallic tie and rail-fastener. E. H. McAllister. No. 1,004,886; Oct. 3; Sp. p. 753; Gaz. vol. 171; p. 120.
Metallic tie and rail-fastener. J. Crisko. No. 1,005,000; Oct. 3; Sp. p. 948; Gaz. vol. 171; p. 158.
Metallic tie and rail-fastener. W. J. Sheldon. No. 1,008,868; Nov. 14; Sp. p. 2770; Gaz. vol. 172; p. 466.

Metallic tie and rail-fastener. S. S. Blatt. No. 1,009,462; Nov. 21; Sp. p. 4117; Gaz. vol. 172; p. 710.
Metallic tie and rail-fastener. W. H. Crilley. No. 1,012,330; Dec. 19; Sp. p. 4342; Gaz. vol. 173; p. 744.
Metallic tie and rail-fastening device. J. F. Robinson. No. 1,000,845; Aug. 15; Sp. p. 3509; Gaz. vol. 169; p. 631.
Metallic tie and rail-joint. L. Knott. No. 990,199; Apr. 18; Sp. p. 4078; Gaz. vol. 165; p. 701.
Metallic wheel. M. R. Bruner. No. 1,009,642; Nov. 21; Sp. p. 4454; Gaz. vol. 172; p. 768.
Metalliferous materials, Treating. C. F. Siegert. No. 981,696; Jan. 17; Sp. p. 3407; Gaz. vol. 162; p. 576.
Metallurgic apparatus. W. H. Peirce. No. 987,909; Mar. 28; Sp. p. 4570; Gaz. vol. 164; p. 823.
Metallurgical purposes, Container for. M. F. Wilfong. No. 984,986; Feb. 21; Sp. p. 3704; Gaz. vol. 163; p. 654.
Meter: *See* Detector-meter; Electric meter; Electricity-meter; Electrolytic meter; Elevator-meter; Fluid-meter; Frequency-meter; Gas-meter; Induction-meter; Liquid-meter; Mercury-meter; Motor-meter; Plane meter; Prepayment-meter; Printing-meter; Rate-meter; Rotary meter; Smoke-meter; Water-meter; Water and gas meter; Wattmeter.
Meter and outlet box. J. G. Swallow and W. E. McCoy. No. 993,123; May 23; Sp. p. 4931; Gaz. vol. 166; p. 892.
Meter-box. E. J. McCreedy and F. A. Phillips. No. 983,311; Feb. 7; Sp. p. 115; Gaz. vol. 163; p. 20.
Meter-box top. T. W. Morris. No. 986,197; Mar. 7; Sp. p. 916; Gaz. vol. 164; p. 148.
Meter-bracket. P. Mueller and A. C. Schuermann. No. 993,614; May 30; Sp. p. 5982; Gaz. vol. 166; p. 1088.
Meter connection. G. W. McKee. No. 1,004,057; Sept. 26; Sp. p. 4125; Gaz. vol. 170; p. 741.
Meter connection-block. G. E. Palmer. No. 993,099; May 23; Sp. p. 4880; Gaz. vol. 166; p. 885.
Meter-hanger. P. Mueller and A. C. Schuermann. No. 1,006,396; Oct. 17; Sp. p. 4029; Gaz. vol. 171; p. 703.
Meter-hanger. P. Mueller and A. C. Schuermann. No. 1,006,397; Oct. 17; Sp. p. 4032; Gaz. vol. 171; p. 703.
Meter-hanger. P. Mueller and A. C. Schuermann. No. 1,006,398; Oct. 17; Sp. p. 4036; Gaz. vol. 171; p. 703.
Meter-motor. A. R. Holmén. No. 997,500; July 11; Sp. p. 1863; Gaz. vol. 168; p. 336.
Meter-readings, Means for recording. S. C. Shaffner. (Reissue.) No. 13,224; Apr. 4; Sp. p. 1398; Gaz. vol. 165; p. 225.
Meter recording mechanism. R. C. Lanphier. No. 998,016; July 18; Sp. p. 3066; Gaz. vol. 168; p. 559.
Meter-register compensating for pressure variations. R. G. Dowins. No. 996,471; June 27; Sp. p. 5226; Gaz. vol. 167; p. 916.
Meters, Bill-delivering mechanism for. R. W. Gallagher. No. 990,125; Apr. 18; Sp. p. 3906; Gaz. vol. 165; p. 675.
Meters, Dirt-collector for proportional. H. P. Westcott. No. 1,005,088; Oct. 3; Sp. p. 1102; Gaz. vol. 171; p. 186.
Methoxymethylmenthol. M. Dohrn and A. Thiele. No. 994,445; June 6; Sp. p. 709; Gaz. vol. 167; p. 121.
Methoxymethylsantalol. M. Dohrn and A. Thiele. No. 1,001,933; Aug. 29; Sp. p. 5861; Gaz. vol. 169; p. 1065.
Methylene-ethyl-methyl ketone. G. Merling and H. Köhler. No. 981,669; Jan. 17; Sp. p. 3335; Gaz. vol. 162; p. 566.
Methylketobutanol. G. Merling and H. Köhler. No. 981,668; Jan. 17; Sp. p. 3334; Gaz. vol. 162; p. 566.
Mica chimney. A. P. Storrs. No. 1,000,047; Aug. 8; Sp. p. 1711; Gaz. vol. 169; p. 320.
Mica sheets, Apparatus for preparing. M. Meirowsky. No. 1,003,368; Sept. 12; Sp. p. 2582; Gaz. vol. 170; p. 444.
Microbe cultures into bottles or other vessels, Means for introducing. P. N. E. Remy. No. 988,031; Mar. 28; Sp. p. 4870; Gaz. vol. 164; p. 866.
Microbes, Breeding. O. Schmidt. No. 994,660; June 6; Sp. p. 1182; Gaz. vol. 167; p. 193.
Micrometer cutting-gage or stop device for lathes, &c. W. Runge. No. 995,726; June 20; Sp. p. 3554; Gaz. vol. 167; p. 626.
Micrometer-gage. L. Scusa. No. 981,127; Jan. 10; Sp. p. 2176; Gaz. vol. 162; p. 358.
Micrometer-indicator. P. J. Linnahan. No. 993,084; May 23; Sp. p. 4840; Gaz. vol. 166; p. 878.
Micrometer-protractor. L. Fuchs. No. 991,839; May 9; Sp. p. 2167; Gaz. vol. 166; p. 386.
Microphone. G. A. Nussbaum. No. 1,012,217; Dec. 19; Sp. p. 4107; Gaz. vol. 173; p. 704.
Microphone-transmitter. A. A. Jahnke. No. 1,007,031; Oct. 24; Sp. p. 5438; Gaz. vol. 171; p. 953.
Miscroscope-bridge and electromagnetic stage. A. Sauveur. No. 1,007,978; Nov. 7; Sp. p. 732; Gaz. vol. 172; p. 115.
Microscopes, Fine adjustment for. H. N. Ott and K. Leuchsenring. No. 987,393; Mar. 21; Sp. p. 3463; Gaz. vol. 164; p. 619.
Middlings-purifier. J. H. Smelzer. No. 984,307; Feb. 14; Sp. p. 2299; Gaz. vol. 163; p. 389.
Milk aerating, cooling, and cleaning device. C. W. Ticknor. No. 1,003,826; Sept. 19; Sp. p. 3556; Gaz. vol. 170; p. 633.
Milk and cream capsule. A. E. Parent. No. 991,354; May 2; Sp. p. 1129; Gaz. vol. 166; p. 189.
Milk and cream testing device. S. Witherell. No. 1,002,106; Aug. 29; Sp. p. 6194; Gaz. vol. 169; p. 1120.
Milk and mail box, Combination. N. Zunino. No. 988,751; Apr. 4; Sp. p. 995; Gaz. vol. 165; p. 158.
Milk and milk products, Apparatus for testing. J. W. Mitchell and W. O. Walker. No. 987,811; Mar. 28; Sp. p. 4334; Gaz. vol. 164; p. 789.
Milk and milk products, Sterilizing. E. Wiener. No. 1,006,992; Oct. 24; Sp. p. 5360; Gaz. vol. 171; p. 940.
Milk-can. C. E. North. No. 982,012; Jan. 17; Sp. p. 4120; Gaz. vol. 162; p. 687.
Milk-can. C. E. North. No. 982,013; Jan. 17; Sp. p. 4122; Gaz. vol. 162; p. 688.
Milk-can. E. H. Humphrey. No. 983,232; Jan. 31; Sp. p. 6678; Gaz. vol. 162; p. 1160.
Milk-can. E. H. Humphrey. No. 983,446; Feb. 7; Sp. p. 408; Gaz. vol. 163; p. 66.
Milk-can. L. R. Steel. No. 983,652; Feb. 7; Sp. p. 855; Gaz. vol. 163; p. 136.
Milk-can. W. F. Donnell. No. 984,921; Feb. 21; Sp. p. 3590; Gaz. vol. 163; p. 633.
Milk-can. W. F. Donnell. No. 985,016; Feb. 21; Sp. p. 3772; Gaz. vol. 163; p. 665.
Milk-can. J. Peshek. No. 997,324; July 11; Sp. p. 1537; Gaz. vol. 168; p. 279.
Milk-can. P. Larsen, J. M. Turney, and F. S. Oakes. No. 997,836; July 11; Sp. p. 2640; Gaz. vol. 168; p. 454.
Milk-can. E. C. Plank. No. 1,001,441; Aug. 22; Sp. p. 4812; Gaz. vol. 169; p. 867.
Milk-can. N. Sherman. No. 1,004,019; Oct. 3; Sp. p. 812; Gaz. vol. 171; p. 131.
Milk-can. L. R. Steel. No. 1,007,986; Nov. 7; Sp. p. 746; Gaz. vol. 172; p. 117.
Milk-can. L. R. Steel. No. 1,007,987; Nov. 7; Sp. p. 748; Gaz. vol. 172; p. 118.
Milk-can. L. R. Steel. No. 1,008,750; Nov. 14; Sp. p. 2534; Gaz. vol. 172; p. 427.
Milk-can and cover therefor. S. Shapiro. No. 991,757; May 9; Sp. p. 1991; Gaz. vol. 166; p. 358.
Milk-can and the like. H. B. Johnston. No. 1,003,609; Sept. 19; Sp. p. 3109; Gaz. vol. 170; p. 560.
Milk-can, Glass-lined insulated. L. R. Steel. No. 1,000,636; Aug. 15; Sp. p. 3079; Gaz. vol. 169; p. 559.
Milk, Concentrating. E. E. Claussen. No. 993,224; May 23; Sp. p. 5122; Gaz. vol. 166; p. 923.
Milk, Condensing. J. C. Alexander. No. 994,555; June 6; Sp. p. 945; Gaz. vol. 167; p. 156.
Milk-cooler. J. F. Price. No. 980,833; Jan. 3; Sp. p. 1401; Gaz. vol. 162; p. 224.
Milk-cooler. M. M. Freeman. No. 986,276; Mar. 7; Sp. p. 1084; Gaz. vol. 164; p. 174.
Milk-cooler. E. L. Wallace. No. 994,433; June 6; Sp. p. 690; Gaz. vol. 167; p. 118.
Milk-cooler. S. Shapiro. No. 995,727; June 20; Sp. p. 3558; Gaz. vol. 167; p. 626.
Milk cooler and aerator. W. V. Rooker. No. 989,054; Apr. 11; Sp. p. 1604; Gaz. vol. 165; p. 281.
Milk, Desiccating. C. H. Campbell. No. 996,832; July 4; Sp. p. 473; Gaz. vol. 168; p. 78.
Milk, Desiccating. C. Ellis. No. 999,707; Aug. 1; Sp. p. 998; Gaz. vol. 169; p. 174.
Milk, Desiccating. M. Ekenberg. No. 999,972; Aug. 8; Sp. p. 1561; Gaz. vol. 169; p. 294.
Milk, Desiccating. H. I. Andrews. No. 1,012,578; Dec. 26; Sp. p. 4835; Gaz. vol. 173; p. 872.
Milk, Desiccating the solid content of. W. H. Swenarton. No. 995,303; June 13; Sp. p. 2588; Gaz. vol. 167; p. 448.
Milk, Drying. J. R. Hatmaker. (Reissue.) No. 13,232; May 2; Sp. p. 1366; Gaz. vol. 166; p. 227.
Milk-homogenizing machine. F. P. Cribbins. No. 996,704; July 4; Sp. p. 218; Gaz. vol. 168; p. 37.
Milk in fresh condition, Retaining. H. E. Hansen. No. 994,641; June 6; Sp. p. 1141; Gaz. vol. 167; p. 186.
Milk, Making dry. C. H. Campbell. No. 1,002,496; Sept. 5; Sp. p. 710; Gaz. vol. 170; p. 104.
Milk, Manufacture of condensed. C. H. Campbell. No. 992,705; May 16; Sp. p. 4005; Gaz. vol. 166; p. 715.
Milk or other liquid cooling apparatus. K. W. Heyman. No. 996,245; June 27; Sp. p. 4712; Gaz. vol. 167; p. 838.
Milk or other liquids, Storage-receptacle for. L. Sturges. No. 998,652; July 25; Sp. p. 4468; Gaz. vol. 168; p. 816.
Milk-pasteurizer. C. N. Gille. No. 995,129; June 13; Sp. p. 2248; Gaz. vol. 167; p. 391.
Milk-pasteurizer. C. N. Gille. No. 995,130; June 13; Sp. p. 2251; Gaz. vol. 167; p. 392.
Milk-pasteurizing apparatus. J. Willmann. No. 990,088; Apr. 18; Sp. p. 3832; Gaz. vol. 165; p. 664.
Milk-powder, Acid. L. C. Merrell. No. 1,000,686; Aug. 15; Sp. p. 3177; Gaz. vol. 169; p. 575.
Milk-powder, Manufacture of dry. H. V. and A. A. Dunham. No. 997,976; July 18; Sp. p. 2968; Gaz. vol. 168; p. 544.
Milk, Preserving. F. W. Howe. No. 1,000,409; Aug. 15; Sp. p. 2553; Gaz. vol. 169; p. 476.
Milk, Preserving. J. M. Aguayo. No. 1,007,046; Oct. 31; Sp. p. 5471; Gaz. vol. 171; p. 1013.
Milk, Preserving. W. D. Pusey. No. 1,008,063; Nov. 7, Sp. p. 896; Gaz. vol. 172; p. 144.
Milk purifying and homogenizing machine. H. H. Stüssy. No. 988,149; Mar. 28; Sp. p. 5096; Gaz. vol. 164; p. 904.
Milk-separator. M. Goehler. No. 981,758; Jan. 17; Sp. p. 3526; Gaz. vol. 162; p. 597.

Alphabetical list of inventions—Continued.

Milk, Treating. T. G. Mollinger. No. 1,005,275; Oct. 10; Sp. p. 1528; Gaz. vol. 171; p. 277.
Milker apparatus, Pneumatic cow-. J. Ripczinske. No. 1,008,369; Nov. 14; Sp. p. 1637; Gaz. vol. 172; p. 293.
Milker, Pneumatic cow-. J. Ripczinske. No. 1,008,368; Nov. 14; Sp. p. 1633; Gaz. vol. 172; p. 293.
Milker's tail-clamp. W. H. Ostrander. No. 987,594; Mar. 21; Sp. p. 3855; Gaz. vol. 164; p. 687.
Milking. D. T. Sharples. No. 992,072; May 9; Sp. p. 2611; Gaz. vol. 166; p. 464.
Milking apparatus. D. T. Sharples. No. 994,956; June 13; Sp. p. 1903; Gaz. vol. 167; p. 334.
Milking apparatus, Milk-can attachment for. E. E. Good. No. 991,776; May 9; Sp. p. 2022; Gaz. vol. 166; p. 364.
Milking-apparatus pulsating device. E. E. Good. No. 1,007,865; Nov. 7; Sp. p. 506; Gaz. vol. 172; p. 76.
Milking appliance. J. Henrichsen and C. J. Hemmingsen. No. 988,708; Apr. 4; Sp. p. 912; Gaz. vol. 165; p. 144.
Milking device. E. McLaughlin. No. 1,012,210; Dec. 19; Sp. p. 4090; Gaz. vol. 173; p. 702.
Milking-machine. A Nihlen. No. 991,350; May 2; Sp. p. 1122; Gaz. vol. 166; p. 187.
Milking-machine. S. A. Ekehorn. No. 994,138; June 6; Sp. p. 71; Gaz. vol. 167; p. 14.
Milking-machine. L. D. Peik and W Lehman. No. 995,804; June 20; Sp. p. 3745; Gaz. vol. 167; p. 653.
Milking-machine. A. H. Loqvist. No. 997,569; July 11; Sp. p. 2011; Gaz. vol. 168; p. 359.
Milking-machine. F. J. Johansson and E. A. O. Göthe. No. 998,294; July 18; Sp. p. 3703; Gaz. vol. 168; p. 660.
Milking-machine. F. J. Johansson and E. A. O. Göthe. No. 1,010,148; Nov. 28; Sp. p. 5504; Gaz. vol. 172; p. 986.
Milking-machine. T. Umrath. No. 1,010,203; Nov. 28; Sp. p. 5608; Gaz. vol. 172; p. 1004.
Milking-machine. T. Umrath. No. 1,010,204; Nov. 28; Sp. p. 5613; Gaz. vol. 172; p. 1005.
Milking-machine mechanism. R. A. Wiggins. No. 981,730; Jan. 17; Sp. p. 3468; Gaz. vol. 162; p. 588.
Milking-machines, Air-distributer for pneumatic. E. A. Nilsson. No. 992,238; May 16; Sp. p. 3002; Gaz. vol. 166; p. 553.
Milking-machines, Teat-cup for. A. Ridd. No. 1,000,948; Aug. 15; Sp. p. 3722; Gaz. vol. 169; p. 666.
Milking machinery. A. Smaill, Jr. No. 982,161; Jan. 17; Sp. p. 4398; Gaz. vol. 162; p. 736.
Milking machinery. C. R. Mitchell. No. 998,856; July 25; Sp. p. 4939; Gaz. vol. 168; p. 888.
Mill: *See* Alfalfa-mill; Cane-crushing mill; Chilian mill; Coffee-mill; Crushing-mill; Feed-mill; Grain-mill; Grinding-mill; Grinding or crushing mill; Ore-mill; Pebble or ball mill; Piercing-mill; Pulverizing-mill; Quartz-mill; Roller-mill; Rolling-mill; Sand-mill; Saw-mill; Stamp-mill; Three-high-roll mill; Tube-mill; Wind-mill.
Mill. W. B. Bary. No. 985,721; Feb. 28; Sp. p. 5374; Gaz. vol. 163; p. 942.
Mill. A. Merckens. No. 1,000,745; Aug. 15; Sp. p. 3297; Gaz. vol. 169; p. 596.
Mill. E. V. Williams. No. 1,008,231; Nov. 7; Sp. p. 1261; Gaz. vol. 172; p. 206.
Millboard-machine. S. Scooler. No. 1,001,896; Aug. 29; Sp. p. 5776; Gaz. vol. 169; p. 1053.
Milling apparatus. L. B. Willoughby. No. 982,454; Jan. 24; Sp. p. 5051; Gaz. vol. 162; p. 871.
Milling-cutter. L. A. Cornelius. No. 990,230; Apr. 25; Sp. p. 4158; Gaz. vol. 165; p. 744.
Milling-cutter. D. Steiner. No. 991,463; May 2; Sp. p. 1357; Gaz. vol. 166; p. 225.
Milling-cutter. T. R. Hellgren. No. 998,174; July 18; Sp. p. 3407; Gaz. vol. 168; p. 615.
Milling-machine. A. L. De Leeuw. No. 980,614; Jan. 3; Sp. p. 940; Gaz. vol. 162; p. 152.
Milling-machine. G. W. Smith. No. 991,100; May 2; Sp. p. 564; Gaz. vol. 166; p. 98.
Milling-machine. E. J. Kearney and T. Trecker. No. 995,256; June 13; Sp. p. 2506; Gaz. vol. 167; p. 433.
Milling-machine. G. D. Sundstrand. No. 1,008,753; Nov. 14; Sp. p. 2541; Gaz. vol. 172; p. 428.
Milling-machine and the like. L. S. Whitehead. No. 993,426; May 30; Sp. p. 5570; Gaz. vol. 166; p. 1022.
Milling-machine attachment. E. J. Kearney and T. Trecker. No. 995,683; June 20; Sp. p. 3467; Gaz. vol. 167; p. 611.
Milling machine, Multiple-. A. Vernet. No. 988,231; Mar. 28; Sp. p. 5252; Gaz. vol. 164; p. 932.
Milling-machine tools, Means for mounting. A. Vernet. No. 997,024; July 4; Sp. p. 923; Gaz. vol. 168; p. 147.
Milling-machines, High-speed attachment for. G. G. Porter and F. E. Cable. No. 1,012,430; Dec. 19; Sp. p. 4529; Gaz. vol. 173; p. 775.
Milling machinery. C. Owens, U. G. Lee, and A. Lyle. No. 1,012,424; Dec. 19; Sp. p. 4516; Gaz. vol. 173; p. 773.
Milling process. H. M. Blinn. No. 993,819; May 30; Sp. p. 6436; Gaz. vol. 166; p. 1160.
Milling-tool. E. A. Searles. No. 990,068; Apr. 18; Sp. p. 3793; Gaz. vol. 165; p. 657.
Mine-cage safety-brake. C. Hansen. No. 988,568; Apr. 4; Sp. p. 591; Gaz. vol. 165; p. 95.
Mine-cage signal. L. Beyer. No. 1,001,337; Aug. 22; Sp. p. 4603; Gaz. vol. 169; p. 833.
Mine cages and elevators, Safety mechanism for. T. G. Baird. No. 981,908; Jan. 17; Sp. p. 3876; Gaz. vol. 162; p. 651.
Mine-door. N. K. Bowman. No. 988,622; Apr. 4; Sp. p. 719; Gaz. vol. 165; p. 114.
Mine-door, Automatic. J. Taylor. No. 996,949; July 4; Sp. p. 728; Gaz. vol. 168; p. 119.
Mine-drill jack. J. E. Powell. No. 1,001,074; Aug. 22; Sp. p. 4068; Gaz. vol. 169; p. 746.
Mine-elevator. W. Channon. No. 1,001,818; Aug. 29; Sp. p. 5591; Gaz. vol. 169; p. 1026.
Mine explosions, Preventing. J. W. Coleman. No. 981,170; Jan. 10; Sp. p. 2269; Gaz. vol. 162; p. 375.
Mine, Floating. A. Lernet. No. 995,794; June 20; Sp. p. 3727; Gaz. vol. 167; p. 649.
Mine-gate. N. K. Bowman. No. 992,752; May 23; Sp. p. 4114; Gaz. vol. 166; p. 761.
Mine-hoist. S. T. Nelson. No. 999,841; Aug. 8; Sp. p. 1273; Gaz. vol. 169; p. 249.
Mine-jack. C. A. Miller. No. 1,009,545; Nov. 21; Sp. p. 4288; Gaz. vol. 172; p. 738.
Mine-prop. A. Winz. No. 1,006,163; Oct. 17; Sp. p. 3504; Gaz. vol. 171; p. 621.
Mine-roof support. J. G. Sanderson and C. B. Sturges. No. 981,226; Jan. 10; Sp. p. 2431; Gaz. vol. 162; p. 394.
Mine safety apparatus. M. Gold and W. A. Montgomery. No. 1,005,196; Oct. 10; Sp. p. 1338; Gaz. vol. 171; p. 247.
Mine safety appliance. S. G. Bennett. No. 996,049; June 27; Sp. p. 4250; Gaz. vol. 167; p. 772.
Mine safety device. P. Darabos. No. 984,355; Feb. 14; Sp. p. 2387; Gaz. vol. 163; p. 404.
Mine-shaft lining. H. J. Wessinger. No. 996,178; June 27; Sp. p. 4578; Gaz. vol. 167; p. 817.
Mine, Submarine. T. J. Hunt and M. E. Walker. No. 984,674; Feb. 21; Sp. p. 3086; Gaz. vol. 163; p. 547.
Mine-tunnels, Metal-reinforced-concrete timbering for. D. W. Shepard. No. 992,813; May 23; Sp. p. 4243; Gaz. vol. 166; p. 783.
Mines, Controlling apparatus for submarine. F. Brück. No. 1,011,152; Dec. 12, Sp. p. 1688; Gaz. vol. 173; p. 297.
Mines, Means for propping. W. Reinhard. No. 988,948; Apr. 4; Sp. p. 1374; Gaz. vol. 165; p. 220.
Mines, Metal gangway-support for. G. H. Barbour. No. 1,009,628; Nov. 21; Sp. p. 4433; Gaz. vol. 172; p. 764.
Mines, Preventing explosions of coal-dust in coal-. H. Kruskopf. No. 995,261; June 13; Sp. p. 2516; Gaz. vol. 167; p. 435.
Mines, Safety appliance for. H. W. Scheiler. No. 982,095; Jan. 17; Sp. p. 4288; Gaz. vol. 162; p. 714.
Mines, Walling of. F. Nellen. No. 999,582; Aug. 1; Sp. p. 769; Gaz. vol. 169; p. 133.
Miner's cap and lamp. L. W. Cogswell. No. 985,660; Feb. 28; Sp. p. 5207; Gaz. vol. 163; p. 920.
Miner's tool. H. R. Taylor. No. 999,133; July 25; Sp. p. 5532; Gaz. vol. 168; p. 983.
Mining. W. Griffith. No. 1,004,418; Sept. 26; Sp. p. 4901; Gaz. vol. 170; p. 864.
Mining. W. Griffith. No. 1,004,419; Sept. 26; Sp. p. 4903; Gaz. vol. 170; p. 864.
Mining apparatus, Placer-. C. Finkbeiner. No. 986,626; Mar. 14; Sp. p. 1839; Gaz. vol. 164; p. 326.
Mining apparatus, Placer-. E. A. Newman. No. 1,002,602; Sept. 5; Sp. p. 947; Gaz. vol. 170; p. 140.
Mining apparatus, Placer-. V. V. Clark. No. 1,011,321; Dec. 12; Sp. p. 2099; Gaz. vol. 173; p. 358.
Mining-bit. W. W. and E. G. Bittenbender. No. 981,243; Jan. 10; Sp. p. 2465; Gaz. vol. 162; p. 400.
Mining coal. H. A. Kuhn. No. 981,201; Jan. 10; Sp. p. 2333; Gaz. vol. 162; p. 384.
Mining drill, Coal-. R. C. Britton. No. 990,205; Apr. 18; Sp. p. 4086; Gaz. vol. 165; p. 702.
Mining-machine. W. Guernsey. No. 993,593; May 30; Sp. p. 5930; Gaz. vol. 166; p. 1080.
Mining-machine. E. Penberthy. No. 997,698; July 11; Sp. p. 2290; Gaz. vol. 168; p. 406.
Mining-machine. W. H. Rains. No. 997,699; July 11; Sp. p. 2293; Gaz. vol. 168; p. 406.
Mining-machine. L. F. Hess. No. 1,006,213; Oct. 17; Sp. p. 3631; Gaz. vol. 171; p. 639.
Mining-machine. H. N. Eavenson, F. D. Buffum, and J. E. Flexner. No. 1,011,928; Dec. 19; Sp. p. 3446; Gaz. vol. 173; p. 604.
Mining-machine attachment. L. F. Hess. No. 999,996; Aug. 8; Sp. p. 1607; Gaz. vol. 169; p. 303.
Mining machine, Coal-. E. Hough. No. 991,508; May 9; Sp. p. 1450; Gaz. vol. 166; p. 272.
Mining machine, Coal-. J. Sutch and W. M. Clark. No. 998,654; July 25; Sp. p. 4476; Gaz. vol. 168; p. 817.
Mining-machine cutter-head. J. C. Hirst. No. 990,554; Apr. 25; Sp. p. 4918; Gaz. vol. 165; p. 858.
Mining-machine, Pneumatic. M. Hardsocg. No. 983,363; Feb. 7; Sp. p. 231; Gaz. vol. 163; p. 39.
Mining pick, Coal-. R. R. Woodson. No. 1,000,475; Aug. 15; Sp. p. 2694; Gaz. vol. 169; p. 500.
Mining sulfur. H. Frasch. No. 988,995; Apr. 11; Sp. p. 1485; Gaz. vol. 165; p. 261.
Mining sulfur. H. Frasch. No. 1,008,319; Nov. 14; Sp. p. 1501; Gaz. vol. 172; p. 276.

Alphabetical list of inventions—Continued.

Mining system, Coal-. C. A. Cabell. No. 980,196; Jan. 3; Sp. p. 33; Gaz. vol. 162; p. 8.
Mining-tool. J. Pollock. No. 981,306; Jan. 10; Sp. p. 2598; Gaz. vol. 162; p. 423.
Mining-tool. A. W. Harris. No. 1,008,818; Nov. 14; Sp. p. 2679; Gaz. vol. 172; p. 450.
Mineral-bearing matter from streams of water, Apparatus for separating. J. V. Coleman. No. 995,526; June 20; Sp. p. 3119; Gaz. vol. 167; p. 555.
Mineral briquet. G. K. Hollister, Jr. No. 990,049; Apr. 18; Sp. p. 3767; Gaz. vol. 165; p. 651.
Minerals, Breaking-down appliance for. W. Williams. No. 997,889; July 11; Sp. p. 2758; Gaz. vol. 168; p. 472.
Minnow or fish, Artificial. J. W. Crane and R. L. Graves. No. 1,010,481; Dec. 5; Sp. p. 183; Gaz. vol. 173; p. 30.
Minnow-trap. B. A. Cox. No. 1,005,605; Oct. 10; Sp. p. 2288; Gaz. vol. 171; p. 393.
Minnow trap and receptacle. F. Humpal. No. 1,011,347; Dec. 12; Sp. p. 2149; Gaz. vol. 173; p. 367.
Minnow-trap, Transparent knockdown. J. A. Smith. No. 985,949; Mar. 7; Sp. p. 411; Gaz. vol. 164; p. 66.
Mirror. S. W. Eddy. No. 1,001,581; Aug. 22; Sp. p. 5069; Gaz. vol. 169; p. 913.
Mirror. K. Toth. No. 1,006,315; Oct. 17; Sp. p. 3861; Gaz. vol. 171; p. 675.
Mirror adjusting device. E. A. J. Germain. No. 993,051; May 23; Sp. p. 4773; Gaz. vol. 166; p. 868.
Mirror adjustment. G. O. Duigan. No. 1,009,727; Nov. 28; Sp. p. 4645; Gaz. vol. 172; p. 844.
Mirror and cabinet, Combined. J. Y. Johnson and F. C. Bartz. No. 1,006,481; Oct. 24; Sp. p. 4243; Gaz. vol. 171; p. 762.
Mirror, Oblique folding. W. C. Miles. No. 1,005,731; Oct. 10; Sp. p. 2541; Gaz. vol. 171; p. 437.
Mirror-pivot. W. E. Grove. No. 1,002,201; Aug. 29; Sp. p. 6396; Gaz. vol. 169; p. 1152.
Mirror-support. W. E. Conroy. No. 987,346; Mar. 21; Sp. p. 3355; Gaz. vol. 164; p. 602.
Mirror-support. I. E. Hoogner. No. 1,001,759; Aug. 29; Sp. p. 5472; Gaz. vol. 169; p. 1006.
Mirror, Toilet-. G. H. Pratt. No. 990,588; Apr. 25; Sp. p. 4989; Gaz. vol. 165; p. 870.
Mirrors, Manufacture of silvered-glass. E. Hoorickx. No. 993,776; May 30; Sp. p. 6347; Gaz. vol. 166; p. 1144.
Misthreading device. J. Northrop. No. 987,817; Mar. 28; Sp. p. 4345; Gaz. vol. 164; p. 791.
Miter-box. W. A. Burger. No. 982,706; Jan. 24; Sp. p. 5544; Gaz. vol. 162; p. 955.
Miter-box. F. Paff. No. 986,851; Mar. 14; Sp. p. 2322; Gaz. vol. 164; p. 402.
Miter-box. J. A. Campbell. No. 991,947; May 9; Sp. p. 2383; Gaz. vol. 166; p. 424.
Miter-box. A. Turnbull. No. 997,221; July 4; Sp. p. 1312; Gaz. vol. 168; p. 214.
Miter-box. G. R. Hill. No. 998,094; July 18; Sp. p. 3254; Gaz. vol. 168; p. 587.
Miter-box. J. L. Nunamaker. No. 998,199; July 18; Sp. p. 3457; Gaz. vol. 168; p. 623.
Miter-box. H. L. Roewe. No. 998,989; July 25; Sp. p. 5253; Gaz. vol. 168; p. 936.
Miter-box. G. W. Fish. No. 999,769; Aug. 8; Sp. p. 1138; Gaz. vol. 169; p. 226.
Miter-box. G. W. Fish. No. 1,002,980; Sept. 12; Sp. p. 1778; Gaz. vol. 170; p. 380.
Miter-box. J. G. Wortham. No. 1,003,310; Sept. 12; Sp. p. 2467; Gaz. vol. 170; p. 425.
Miter-box. W. Fuhrmann. No. 1,006,201; Oct. 17; Sp. p. 3606; Gaz. vol. 171; p. 635.
Miter-box. E. M. Ayer. No. 1,006,521; Oct. 24; Sp. p. 4327; Gaz. vol. 171; p. 776.
Miter-box. J. C. Graham. No. 1,013,010; Dec. 26; Sp. p. 5832; Gaz. vol. 173; p. 1020.
Miter-gage. C. H. Johnson. No. 1,006,948; Oct. 24; Sp. p. 5268; Gaz. vol. 171; p. 927.
Miter jack and vise, Universal adjustable. A. Shire. No. 1,004,920; Oct. 3; Sp. p. 813; Gaz. vol. 171; p. 131.
Mitering-machine. H. L. Roewe. No. 999,058; July 25; Sp. p. 5398; Gaz. vol. 168; p. 961.
Mixer: *See* Briquet-material mixer; Butter and milk mixer; Butter-compound mixer; Cake-mixer; Cement-mixer; Concrete-mixer; Dough-mixer; Feed-mixer; Fertilizer-mixer; Gas-mixer; Gas and air mixer; Gas and liquid mixer; Mortar and concrete mixer.
Mixer. H. E. Townsend. No. 989,733; Apr. 18; Sp. p. 3084; Gaz. vol. 165; p. 543.
Mixer. J. I. Chambers. No. 1,011,030; Dec. 5; Sp. p. 1374; Gaz. vol. 173; p. 219.
Mixer or commingler for evaporators and the like. G. R. Ray. No. 1,002,866; Sept. 12; Sp. p. 1538; Gaz. vol. 170; p. 268.
Mixing-agitator. B. E. Shattuck. No. 1,004,209; Sept. 26; Sp. p. 4497; Gaz. vol. 170; p. 794.
Mixing and grinding machine. G. N. Kinnell. No. 1,001,652; Aug. 29; Sp. p. 5224; Gaz. vol. 169; p. 969.
Mixing and separating machine. F. Ecaubert. No. 1,011,929; Dec. 19; Sp. p. 3453; Gaz. vol. 173; p. 604.
Mixing device. W. Kolb, Jr. No. 1,012,206; Dec. 19; Sp. p. 4083; Gaz. vol. 173; p. 701.
Mixing-machine. R. D. Soars. No. 985,299; Feb. 28; Sp. p. 4434; Gaz. vol. 163; p. 797.
Mixing-machine. T. L. Brannen. No. 988,167; Mar. 28; Sp. p. 5131; Gaz. vol. 164; p. 910.
Mixing-machine. F. J. Smith. No. 995,920; June 20; Sp. p. 3989; Gaz. vol. 167; p. 693.
Mixing-machine. T. L. Smith. No. 1,000,851; Aug. 15; Sp. p. 3520; Gaz. vol. 169; p. 633.
Mixing-machine. W. F. Dehuff. No. 1,007,930; Nov. 7; Sp. p. 643; Gaz. vol. 172; p. 99.
Mixing-machine. J. G. Harding. No. 1,009,304; Nov. 21; Sp. p. 3749; Gaz. vol. 172; p. 653.
Mixing-machine. K. R. Sternberg. No. 1,009,802; Nov. 28; Sp. p. 4801; Gaz. vol. 172; p. 869.
Mixing-machine beater. H. Read. No. 1,007,891; Nov. 7; Sp. p. 553; Gaz. vol. 172; p. 85.
Mixing-machine feed-regulator. J. N. Rauber and S. Finley. No. 1,012,915; Dec. 26; Sp. p. 5602; Gaz. vol. 173; p. 987.
Mixing-machine or the like, Automatically-controlled. P. N. Pecci. No. 1,006,003; Oct. 17; Sp. p. 3141; Gaz. vol. 171; p. 564.
Mixing-machines, Agitator or paddle mechanism for. H. U. Prindle. No. 1,012,154; Dec. 19; Sp. p. 3956; Gaz. vol. 173; p. 683.
Mixing or ice-cream-freezing machinery. S. H. Bunnell. No. 991,604; May 9; Sp. p. 1679; Gaz. vol. 166; p. 307.
Mixing or tumbling machine. S. J. Morgan. No. 984,694; Feb. 21; Sp. p. 3135; Gaz. vol. 163; p. 555.
Moccasin. G. H. Bass. No. 984,739; Feb. 21; Sp. p. 3233; Gaz. vol. 163; p. 572.
Moccasin, Dust-. S. E. Wiltse. No. 988,159; Mar. 28; Sp. p. 5117; Gaz. vol. 164; p. 907.
Modeling-machine. W. Spiller. No. 999,270; Aug. 1; Sp. p. 149; Gaz. vol. 169; p. 28.
Moistener. J. F. Milner. No. 1,000,428; Aug. 15; Sp. p. 2594; Gaz. vol. 169; p. 483.
Moistener. J. O'Brien. No. 1,004,679; Oct. 3; Sp. p. 272; Gaz. vol. 171; p. 47.
Moistener and sealer for envelops. F. R. S. Ditmars. No. 982,353; Jan. 24; Sp. p. 4815; Gaz. vol. 162; p. 834.
Moistener and sealer for envelops, &c. C. R. Stewart. No. 983,004; Jan. 31; Sp. p. 6214; Gaz. vol. 162; p. 1083.
Moistener, Envelop. K. Hjertquist. No. 986,984; Mar. 14; Sp. p. 2577; Gaz. vol. 164; p. 446.
Moistener, Envelop-. O. L. Zittle and A. Konrad. No. 989,685; Apr. 18; Sp. p. 2989; Gaz. vol. 165; p. 526.
Moistener for dental tools. G. G. Reed. No. 1,005,468; Oct. 10; Sp. p. 1952; Gaz. vol. 171; p. 345.
Moistener, Sanitary stamp-. A. J. Hoback, Jr. No. 985,345; Feb. 28; Sp. p. 4515; Gaz. vol. 163; p. 812.
Moistener, Stamp-. A. Blieden. No. 998,951; July 25; Sp. p. 5170; Gaz. vol. 168; p. 923.
Moistening and affixing machine, Stamp. J. Gillham, Jr. No. 1,004,413; Sept. 26; Sp. p. 4889; Gaz. vol. 170; p. 862.
Moistening device. J. F. Cummings. No. 982,939; Jan. 31; Sp. p. 6079; Gaz. vol. 162; p. 1061.
Moistening device. A. H. Linaweaver. No. 1,008,973; Nov. 14; Sp. p. 2997; Gaz. vol. 172; p. 500.
Moisture-proofing hygroscopic powder materials. H. E. Miller. No. 987,079; Mar. 14; Sp. p. 2755; Gaz. vol. 164; p. 476.
Mold: *See* Anode-mold; Bearing-cage-casting mold; Block-mold; Block and brick mold; Bottle-mold; Brick-mold; Burial-case mold; Butter-mold; Casting-mold; Chimney-top mold; Concrete-mold; Concrete-block mold; Concrete-column mold; Concrete-flooring-member mold; Concrete-post mold; Concrete-step mold; Concrete-structure mold; Concrete-wall mold; Culvert-mold; Curb and gutter mold; Dam-mold; Expansible mold; Fence-post mold; Food-mold; Glass-mold; Glass-sheet bending and shaping mold; Hat-brim mold; Ice-mold; Ingot-mold; Linotype-mold; Machine-mold; Manifold-mold; Metal-founder's mold; Pipe-mold; Post-mold; Ring-mold; Rotary mold; Sash-weight mold; Sculptor's mold; Stereotype-casting mold; Tile-mold; Tire-mold; Type-mold; Vault-making mold.
Mold. W. D. Harrell. No. 981,557; Jan. 10; Sp. p. 3110; Gaz. vol. 162; p. 507.
Mold. W. Burk. No. 982,241; Jan. 24; Sp. p. 4564; Gaz. vol. 162; p. 794.
Mold. F. F. Landis. No. 985,353; Feb. 28; Sp. p. 4550; Gaz. vol. 163; p. 815.
Mold. W. E. Fobes. No. 987,225; Mar. 21; Sp. p. 3096; Gaz. vol. 164; p. 561.
Mold. M. Carroll. No. 991,606; May 9; Sp. p. 1681; Gaz. vol. 166; p. 308.
Mold. J. W. Westlake. No. 992,311; May 16; Sp. p. 3188; Gaz. vol. 166; p. 579.
Mold. R. Johnson. No. 994,643; June 6; Sp. p. 1145; Gaz. vol. 167; p. 187.
Mold. C. H. Howard. No. 996,585; June 27; Sp. p. 5455; Gaz. vol. 167; p. 954.
Mold. D. Granstrom. No. 996,983; July 4; Sp. p. 823; Gaz. vol. 168; p. 132.
Mold. A. Eckardt. No. 1,003,722; Sept. 19; Sp. p. 3358; Gaz. vol. 170; p. 600.
Mold. F. M. Sawyer. No. 1,004,693; Oct. 3; Sp. p. 306; Gaz. vol. 171; p. 52.
Mold. J. N. Heltzel. No. 1,005,543; Oct 10; Sp. p. 2110; Gaz. vol. 171; p. 372.

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Mold. R. P. Lamont. No. 1,010,392; Nov. 28; Sp. p. 6011; Gaz. vol. 172; p. 1066.
Mold and making the same. J. D. Brown. No. 984,346; Feb. 14; Sp. p. 2371; Gaz. vol. 163; p. 401.
Mold-cap auxiliary and movable liner, Graduated. L. Hurley and C. A. Brewton. No. 1,004,030; Sept. 26; Sp. p. 4056; Gaz. vol. 170; p. 732.
Mold clamp, Snap-. H. J. and T. H. Graf. No. 980,869; Jan. 3; Sp. p. 1483; Gaz. vol. 162; p. 237.
Mold for forming sidewalks and other like constructions. H. C. Seipp. No. 994,540; June 6; Sp. p. 911; Gaz. vol. 167; p. 151.
Mold for twyers and other hollow articles. G. F. Stoney. No. 992,288; May 16; Sp. p. 3128; Gaz. vol. 166; p. 570.
Mold-forming machine. C. E. Simpson. No. 1,008,207; Nov. 7; Sp. p. 1198; Gaz. vol. 172; p. 197.
Mold-jacket. L. Kimball. No. 1,002,522; Sept. 5; Sp. p. 762; Gaz. vol. 170; p. 112.
Mold-jacket. L. L. Long. No. 1,007,462; Oct. 31; Sp. p. 6390; Gaz. vol. 171; p. 1160.
Mold-jig. P. J. Haas. No. 1,000,089; Aug. 8; Sp. p. 1852; Gaz. vol. 169; p. 335.
Mold-making machine. G. A. McKeel. No. 982,971; Jan. 31; Sp. p. 6131; Gaz. vol. 162; p. 1071.
Mold-making machine. E. E. Davis. No. 1,006,443; Oct. 17; Sp. p. 4129; Gaz. vol. 171; p. 719.
Molds, Jolt-ramming. E. H. Mumford. No. 980,994; Jan. 10; Sp. p. 1872; Gaz. vol. 162; p. 311.
Molds, Machine for jarring. H. R. Atwater. No. 1,008,299; Nov. 14; Sp. p. 1433; Gaz. vol. 172; p. 267.
Molds, Making. G. E. Anderson. No. 1,002,355; Sept. 5; Sp. p. 408; Gaz. vol. 170; p. 58.
Molder's flask. H. G. Voight. No. 981,723; Jan. 17; Sp. p. 3453; Gaz. vol. 162; p. 585.
Molder's flask. R. S. Buch. No. 983,676; Feb. 7; Sp. p. 914; Gaz. vol. 163; p. 144.
Molder's flask. D. T. Turney. No. 1,008,221; Nov. 7; Sp. p. 1239; Gaz. vol. 172; p. 202.
Molder's flask and bar therefor. R. S. Buch. No. 993,953; May 30; Sp. p. 6686; Gaz. vol. 166; p. 1203.
Molder's tool. J. Whitehead. No. 984,985; Feb. 21; Sp. p. 3703; Gaz. vol. 163; p. 654.
Molding apparatus. W. H. Fisher. No. 985,576; Feb. 28; Sp. p. 5045; Gaz. vol. 163; p. 892.
Molding apparatus. M. J. Hewlett. No. 993,599; May 30; Sp. p. 5941; Gaz. vol. 166; p. 1082.
Molding apparatus. E. J. Vraalstad. No. 1,000,863; Aug. 15; Sp. p. 3544; Gaz. vol. 169; p. 637.
Molding apparatus, Continuous-. I. V. Maclean. No. 997,306; July 11; Sp. p. 1498; Gaz. vol. 168; p. 273.
Molding, Apparatus for manufacturing wooden. J. C. De Laney. No. 999,014; July 25; Sp. p. 5307; Gaz. vol. 168; p. 944.
Molding-chaplet. G. L. Waitt. No. 1,010,542; Dec. 5; Sp. p. 310; Gaz. vol. 173; p. 49.
Molding clay articles, Apparatus for. W. D. Frerichs. No. 986,701; Mar. 14; Sp. p. 1999; Gaz. vol. 164; p. 352.
Molding-cleaner. J. E. Wilson and G. W. Green. No. 984,988; Feb. 21; Sp. p. 3707; Gaz. vol. 163; p. 655.
Molding-flask. H. J. and T. H. Graf. No. 980,868; Jan. 3; Sp. p. 1481; Gaz. vol. 162; p. 237.
Molding-flask. A. C. Mott, Jr., and J. Whitehead. No. 982,687; Jan. 24; Sp. p. 5497; Gaz. vol. 162; p. 948.
Molding-flask. L. J. Kreutzberg. No. 1,002,708; Sept. 5; Sp. p. 1163; Gaz. vol. 170; p. 176.
Molding-flask. J. Tuohy. No. 1,005,369; Oct. 10; Sp. p. 1748; Gaz. vol. 171; p. 311.
Molding, Flexible. M. Patterson. No. 1,011,642; Dec. 12; Sp. p. 2838; Gaz. vol. 173; p. 473.
Molding-machine. M. E. Welch. No. 981,903; Jan. 17; Sp. p. 3853; Gaz. vol. 162; p. 649.
Molding-machine. J. W. Weil. No. 988,919; Apr. 4; Sp. p. 1311; Gaz. vol. 165; p. 211.
Molding-machine. J. Barker. No. 988,922; Apr. 4; Sp. p. 1318; Gaz. vol. 165; p. 212.
Molding-machine. A. Mathieson. No. 989,170; Apr. 11; Sp. p. 1849; Gaz. vol. 165; p. 321.
Molding-machine. A. Deville. No. 989,578; Apr. 18; Sp. p. 2750; Gaz. vol. 165; p. 490.
Molding-machine. J. J. Fitzsimmons. No. 989,593; Apr. 18; Sp. p. 2804; Gaz. vol. 165; p. 496.
Molding-machine. C. Herman. No. 989,971; Apr. 18; Sp. p. 3608; Gaz. vol. 165; p. 625.
Molding-machine. C. Köchling. No. 990,880; May 2; Sp. p. 117; Gaz. vol. 166; p. 22.
Molding-machine. G. H. Ebel. No. 999,970; Aug. 8; Sp. p. 1555; Gaz. vol. 169; p. 294.
Molding-machine. C. Mills. No. 1,000,103; Aug .8; Sp. p. 1878; Gaz. vol. 169; p. 340.
Molding-machine. G. W. Southwick. No. 1,000,205; Aug. 8; Sp. p. 2105; Gaz. vol. 169; p. 375.
Molding-machine. P. Wintz. No. 1,000,474; Aug. 15; Sp. p. 2690; Gaz. vol. 169; p. 499.
Molding-machine. J. L. Johnson. No. 1,001,528; Aug. 22; Sp. p. 4957; Gaz. vol. 169; p. 896.
Molding-machine. J. A. Rathbone. No. 1,001,887; Aug. 29; Sp. p. 5758; Gaz. vol. 169; p. 1050.
Molding-machine. J. T. Stoney. No. 1,004,602; Oct. 3; Sp. p. 117; Gaz. vol. 171; p. 20.
Molding-machine. J. T. Stoney. No. 1,004,708; Oct. 3; Sp. p. 358; Gaz. vol. 171; p. 58.
Molding-machine. W. B. Bolles. No. 1,006,053; Oct. 17; Sp. p. 3249; Gaz. vol. 171; p. 581.
Molding-machine. E. Ronceray. No. 1,006,681; Oct. 24; Sp. p. 4681; Gaz. vol. 171; p. 833.
Molding-machine. H. S. Stewart. No. 1,009,803; Nov. 28; Sp. p. 4803; Gaz. vol. 172; p. 870.
Molding-machine. E. C. Covert. No. 1,010,023; Nov. 28; Sp. p. 5266; Gaz. vol. 172; p. 944.
Molding-machine, Hydraulic. G. A. Oertzen. No. 992,379; May 16; Sp. p. 3348; Gaz. vol. 166; p. 603.
Molding mechanism. M. F. McCarthy. No. 1,001,288; Aug. 22; Sp. p. 4482; Gaz. vol. 169; p. 815.
Momentum and inertia equalizer. W. A. Kelly. No. 992,134; May 9; Sp. p. 2745; Gaz. vol. 166; p. 486.
Momentum-utilizing apparatus. A. H. Van Pelt. No. 1,002,610; Sept. 5; Sp. p. 960; Gaz. vol. 170; p. 143.
Money-box. M. E. Irving. No. 1,012,857; Dec. 26; Sp. p. 5477; Gaz. vol. 173; p. 969.
Money-receptacle. E. B. Stone. No. 1,011,521; Dec. 12; Sp. p. 2516; Gaz. vol. 173; p. 428.
Monkey-wrench. G. W. and J. Fieldes. No. 994,070; May 30; Sp. p. 6920; Gaz. vol. 166; p. 1243.
Monkey-wrench. I. H. Murdick and C. J. Garey. No. 1,009,683; Nov. 21; Sp. p. 4537; Gaz. vol. 172; p. 781.
Monkey-wrench. B. A. Thomas. No. 1,009,938; Nov. 28; Sp. p. 5065; Gaz. vol. 172; p. 914.
Monocinnamic ester of glycol. P. Schickler and H. Hahl. No. 1,000,040; Aug. 8; Sp. p. 1703; Gaz. vol. 169; p. 318.
Monoplane. L. A. Hewitt. No. 1,000,808; Aug. 15; Sp. p. 3437; Gaz. vol. 169; p. 618.
Monorail and truck. J. J. Charbonneau. No. 991,954; May 9; Sp. p. 2396; Gaz. vol. 166; p. 426.
Monorail construction, Elevated. H. H. Ellzey. No. 1,004,759; Oct. 3; Sp. p. 460; Gaz. vol. 171; p. 76.
Monorail-switch. H. M. Harding. No. 994,461; June 6; Sp. p. 731; Gaz. vol. 167; p. 125.
Monorail system. F. P. Derr. No. 991,050; May 2; Sp. p. 459; Gaz. vol. 166; p. 80.
Monotype-machines, Device to be used in. G. F. Coates. No. 1,011,581; Dec. 12; Sp. p 2689; Gaz. vol. 173; p. 451.
Mop. H. A. Hayden. No. 1,002,268; Sept. 5; Sp. p. 183; Gaz. vol. 170; p. 23.
Mop. H. G. Rowell. No. 1,008,071; Nov. 7; Sp. p. 914; Gaz. vol. 172; p. 147.
Mop and brush holder, Combination. D. B. Wing. No. 1,004,516; Sept. 26; Sp. p. 5103; Gaz. vol. 170; p. 898.
Mop and scrubbing-brush holder, Combined. P. J. Glancey. No. 981,756; Jan. 17; Sp. p. 3523; Gaz. vol. 162; p. 596.
Mop and wringer. H. O. Thomas. No. 1,011,525; Dec. 12; Sp. p. 2534; Gaz. vol. 173; p. 430.
Mop, Fountain-. B. H. Pugh. No. 1,003,008; Sept. 12; Sp. p. 1834; Gaz. vol. 170; p. 317.
Mop-head. A. Lackey. No. 1,001,285; Aug. 22; Sp. p. 4479; Gaz. vol. 169; p. 814.
Mop head and wringer, Combined. J. W. Cuppy and M. D. Moore. No. 982,084; Jan. 17; Sp. p. 4269; Gaz. vol. 162; p. 711.
Mop head and wringer, Combined. E. Koeb and R. P. Thompson. No. 985,180; Feb. 28: Sp. p. 4162; Gaz. vol. 163; p. 757.
Mop head and wringer, Combined. G. S. White. No. 989,315; Apr. 11; Sp. p. 2173; Gaz. vol. 165; p. 370.
Mop head and wringer, Combined. P. Fuhrer. No. 991,054; May 2; Sp. p. 464; Gaz. vol. 166; p. 81.
Mop head and wringer, Combined. L. E. Wheaton. No. 1,000,220; Aug. 8; Sp. p. 2135; Gaz. vol. 169; p. 380.
Mop head and wringer, Combined. C. E. Brown. No. 1,005,806; Oct. 17; Sp. p. 2702; Gaz. vol. 171; p. 494.
Mop head and wringer, Combined. H. A. Ruggles. No. 1,005,887; Oct. 17; Sp. p. 2890; Gaz. vol. 171; p. 524.
Mop-holder. A. P. Slack. No. 988,516; Apr. 4; Sp. p. 487; Gaz. vol. 165; p. 77.
Mop-holder. H. Kibele. No. 998,532; July 18; Sp. p. 4190; Gaz. vol. 168; p. 742.
Mop-holder. U. P. Tarbox. No. 1,001,090; Aug. 22; Sp. p. 4098; Gaz. vol. 169; p. 751.
Mop holder and wringer. R. T. Brennan. No. 1,011,109; Dec. 5; Sp. p. 1563; Gaz. vol. 173; p. 247.
Mop holder and wringer. V. C. McIntosh. No. 1,012,142; Dec. 19; Sp. p. 3933; Gaz. vol. 173; p. 680.
Mop holder and wringer, Combined. W. J. Barber. No. 1,004,965; Oct. 3; Sp. p. 889; Gaz. vol. 171; p. 146.
Mop-holding device. G. H. Doyle. No. 997,049; July 4; Sp. p. 972; Gaz. vol. 168; p. 155.
Mop-making machine. A. Lackey. No. 984,093; Feb. 14; Sp. p. 1835; Gaz. vol. 163; p. 315.
Mop squeezer or wringer. N. Hilker. No. 1,009,308; Nov. 21; Sp. p. 3755; Gaz. vol. 172; p. 655.
Mop-wringer. C. E. Van Doorn. No. 980,710; Jan. 3; Sp. p. 1157; Gaz. vol. 162; p. 184.
Mop-wringer. H. F. Beers. No. 1,002,362; Sept. 5; Sp. p. 431; Gaz. vol. 170; p. 60.
Mop-wringer. F. T. Murray. No. 1,003,146; Sept. 12; Sp. p. 2112; Gaz. vol. 170; p. 364.
Mop-wringer. C. J. Allen. No. 1,004,958; Oct. 3; Sp. p. 878; Gaz. vol. 171; p. 144.
Mop-wringer. E. E. Ward. No. 1,006,706; Oct. 24; Sp. p. 4720; Gaz. vol. 171; p. 841.

Mop-wringer and scrub-brush holder, Combined. W. Vernon. No. 980,712; Jan. 3; Sp. p. 1161; Gaz. vol. 162; p. 185.
Mortar and concrete mixer. F. E. King. No. 988,788; Apr. 4; Sp. p. 1065; Gaz. vol. 165; p. 170.
Mortar or plaster, Manufacture of dry. E. Cramer. No. 1,006,725; Oct. 24; Sp. p. 4755; Gaz. vol. 171; p. 847.
Mortise-and-tenon hopper-joint machine. J. H. O'Neill. No. 987,163; Mar. 21; Sp. p. 2958; Gaz. vol. 164; p. 538.
Mortise-guide. J. W. Monette and W. R. Smart. No. 990,452; Apr. 25; Sp. p. 4685; Gaz. vol. 165; p. 823.
Mortise-lock. H. G. Voight. No. 995,818; June 20; Sp. p. 3778; Gaz. vol. 167; p. 659.
Mortise-lock. H. G. Voight. No. 1,003,956; Sept. 19; Sp. p. 3876; Gaz. vol. 170; p. 680.
Mortise-lock, Tubular. H. E. Fendring and W. D. Luther. No. 984,366; Feb. 14; Sp. p. 2406; Gaz. vol. 163; p. 407.
Mortising and centering device. A. A. Harvie. No. 992,500; May 16; Sp. p. 3592; Gaz. vol. 166; p. 645.
Mortising device. A. Fulton. No. 991,840; May 9; Sp. p. 2169; Gaz. vol. 166; p. 386.
Mortising device, Hinge-. F. E. Sherwood. No. 1,005,336; Oct. 10; Sp. p. 1671; Gaz. vol. 171; p. 299.
Mortising-machine. J. Zetter. No. 984,057; Feb. 14; Sp. p. 1759; Gaz. vol. 163; p. 302.
Mortising-machine. A. O. Vick. No. 990,316; Apr. 25; Sp. p. 4367; Gaz. vol. 165; p. 774.
Mortising-machine. D. W. Edwards. No. 992,945; May 23; Sp. p. 4546; Gaz. vol. 166; p. 831.
Mortising-machine. A. O. Vick. No. 1,009,201; Nov. 21; Sp. p. 3486; Gaz. vol. 172; p. 615.
Mortising machine, Wood-. W. B. Haigh. No. 987,065; Mar. 14; Sp. p. 2734; Gaz. vol. 164; p. 472.
Mortising-tool. E. P. Hoglund. No. 991,062; May 2; Sp. p. 478; Gaz. vol. 166; p. 83.
Mosaic ornamentation to cement slabs, Device for applying. F. J. Wassermann. No. 995,206; June 13; Sp. p. 2398; Gaz. vol. 167; p. 416.
Moth-repellent holder. M. W. Costello. No. 984,352; Feb. 14; Sp. p. 2381; Gaz. vol. 163; p. 403.
Mothproof garment-bag. G. Rottman. No. 995,571; June 20; Sp. p. 3222; Gaz. vol. 167; p. 570.
Motion-converting means. C. Liaci and A. Giammattei. No. 982,077; Jan. 17; Sp. p. 4255; Gaz. vol. 162; p. 709.
Motion, Detaching-roll. H. G. Kimball. No. 1,003,612; Sept. 19; Sp. p. 3112; Gaz. vol. 170; p. 561.
Motion, Means for converting reciprocating into rotary. F. Lamplough. No. 1,012,208; Dec. 19; Sp. p. 4086; Gaz. vol. 173; p. 701.
Motion, Means for producing rapid reciprocating. C. V. Boys and J. W. Tierney. No. 1,007,521; Oct. 31; Sp. p. 6528; Gaz. vol. 171; p. 1181.
Motion, Release and let-back. F. Howard. No. 986,006; Mar. 7; Sp. p. 545; Gaz. vol. 164; p. 87.
Motion-transmitting mechanism. H. B. and R. M. Ross. No. 989,426; Apr. 11; Sp. p. 2401; Gaz. vol. 165; p. 406.
Motion-transmitting mechanism. H. B. Ross. No. 989,427; Apr. 11; Sp. p. 2406; Gaz. vol. 165; p. 406.
Motive-power-controlling device. T. E. Barnum. No. 993,814; May 30; Sp. p. 6423; Gaz. vol. 166; p. 1158.
Motive power, Method and apparatus for generating. O. P. Ostergren. No. 986,308; Mar. 7; Sp. p. 1143; Gaz. vol. 164; p. 185.
Motocycle. L. H. Dyer. No. 985,517; Feb. 28; Sp. p. 4926; Gaz. vol. 163; p. 872.
Motor: *See* Air-motor; Automobile power-motor; Aviation-motor; Back-geared motor; Churn-motor; Combustion-motor; Current-motor; Dental motor; Door-motor; Dynamic motor; Elastic-fluid motor; Electric motor; Electrical motor; Explosion-motor; Flow-motor; Fluid-pressure motor; Gas-motor; Hydraulic motor; Hydrocarbon-motor; Hydrostatic motor; Induction-motor; Internal-combustion motor; Internal-combustion steam-motor; Mechanical motor; Meter-motor; Oscillating motor; Oscillatory motor; Polyphase motor; Power-motor; Pump-motor; Rotary motor; Semirotary motor; Solar-heat motor; Spring-motor; Steam-motor; Swing-operated motor; Talking-machine motor; Thermostatic motor; Tide-motor; Tide or wave operated motor; Tide-water motor; Traction-motor; Turbine-motor; Vehicle-motor; Water-motor; Wave-motor; Wave and current motor; Wave and tide motor; Wave-energy motor; Weight-motor; Wind-motor.
Motor. C. E. Godlove and J. L. Van Nort. No. 981,995; Jan. 17; Sp. p. 4086; Gaz. vol. 162; p. 681.
Motor. J. W. Willson. No. 982,917; Jan. 31; Sp. p. 6024; Gaz. vol. 162; p. 1055.
Motor. W. S. Elliott. No. 983,034; Jan. 31; Sp. p. 6292; Gaz. vol. 162; p. 1093.
Motor. W. W. Rosenfield. No. 985,454; Feb. 28; Sp. p. 4781; Gaz. vol. 163; p. 849.
Motor. J. W. East. No. 987,707; Mar. 28; Sp. p. 4120; Gaz. vol. 164; p. 754.
Motor. O. B. Ramp. No. 992,985; May 23; Sp. p. 4626; Gaz. vol. 166; p. 844.
Motor. J. E. Yost. No. 994,231; June 6; Sp. p. 266; Gaz. vol. 167; p. 46.
Motor. H. B. Holt and C. A. Conn. No. 994,401; June 6; Sp. p. 627; Gaz. vol. 167; p. 107.
Motor. R. Star. No. 997,159; July 4; Sp. p. 1187; Gaz. vol. 168; p. 192.
Motor. H. A. Hoeschen. No. 999,562; Aug. 1; Sp. p. 734; Gaz. vol. 169; p. 126.
Motor. C. B. Redrup. No. 999,673; Aug. 1; Sp. p. 940; Gaz. vol. 169; p. 164.
Motor. M. and M. Bookstaber. No. 1,000,985; Aug. 22; Sp. p. 3825; Gaz. vol. 169; p. 713.
Motor. L. H. Nielsen. No. 1,007,377; Oct. 31; Sp. p. 6210; Gaz. vol. 171; p. 1131.
Motor. G. W. Brewer. No. 1,008,307; Nov. 14; Sp. p. 1478; Gaz. vol. 172; p. 271.
Motor-actuating apparatus, Water-. S. Gray. No. 1,002,676; Sept. 5; Sp. p. 1091; Gaz. vol. 170; p. 164.
Motor and compressor. C. E. Shadall. No. 1,012,725; Dec. 26; Sp. p. 5161; Gaz. vol. 173; p. 924.
Motor and machine stand. C. E. Hathorn. No. 1,008,821; Nov. 14; Sp. p. 2683; Gaz. vol. 172; p. 451.
Motor apparatus, Internal-combustion-. S. A. Reeve. No. 999,873; Aug. 8; Sp. p. 1348; Gaz. vol. 169; p. 260.
Motor apparatus, Pneumatic-. J. Vandin. No. 1,006,810; Oct. 24; Sp. p. 4961; Gaz. vol. 171; p. 879.
Motor attachment, Electric-. W. A. Lawrence. No. 1,001,152; Aug. 22; Sp. p. 4213; Gaz. vol. 169; p. 771.
Motor-casings, Oil-emptying mechanism for. I. Koechlin. No. 1,006,566; Oct. 24; Sp. p. 4454; Gaz. vol. 171; p. 795.
Motor control. J. F. Tritle. No. 980,707; Jan. 3; Sp. p. 1147; Gaz. vol. 162; p. 183.
Motor control. W. N. Dickinson, Jr. No. 982,041; Jan. 17; Sp. p. 4183; Gaz. vol. 162; p. 697.
Motor control. H. S. Mustin. No. 993,540; May 30; Sp. p. 5815; Gaz. vol. 166; p. 1061.
Motor control. E. F. W. Alexanderson. No. 996,390; June 27; Sp. p. 5050; Gaz. vol. 167; p. 889.
Motor control. J. D. Ihlder. No. 1,005,221; Oct. 10; Sp. p. 1390; Gaz. vol. 171; p. 256.
Motor control. A. Sundh. No. 1,011,267; Dec. 12; Sp. p. 1961; Gaz. vol. 173; p. 338.
Motor control. A. Sundh. No. 1,011,268; Dec. 12; Sp. p. 1965; Gaz. vol. 173; p. 338.
Motor control, Alternating-current-. J. D. Ihlder. No. 982,067; Jan. 17; Sp. p. 4231; Gaz. vol. 162; p. 705.
Motor-control apparatus. D. Wald, O. C. Britsch, and M. Taigman. No. 984,327; Feb. 14; Sp. p. 2334; Gaz. vol. 163; p. 395.
Motor-control apparatus. D. Wald, O. C. Britsch, and M. Taigman. No. 1,000,864; Aug. 15; Sp. p. 3548; Gaz. vol. 169; p. 638.
Motor control, Electric-. R. Fuller. No. 994,993; June 13; Sp. p. 1983; Gaz. vol. 167; p. 347.
Motor control, Inductive-. A. Sundh. No. 982,695; Jan. 24; Sp. p. 5515; Gaz. vol. 162; p. 951.
Motor-control system. E. W. Stull. No. 982,897; Jan. 31; Sp. p. 5973; Gaz. vol. 162; p. 1048.
Motor-control system. E. W. Stull. No. 983,519; Feb. 7; Sp. p. 557; Gaz. vol. 163; p. 89.
Motor-control system. W. Siebenmorgen and S. H. Keefer. No. 986,091; Mar. 7; Sp. p. 716; Gaz. vol. 164; p. 115.
Motor-control system. E. L. Gale, Sr. No. 986,277; Mar. 7; Sp. p. 1085; Gaz. vol. 164; p. 174.
Motor-control system. W. H. Powell. No. 988,028; Mar. 28; Sp. p. 4860; Gaz. vol. 164; p. 865.
Motor-control system. G. B. Schley. No. 989,063; Apr. 11; Sp. p. 1627; Gaz. vol. 165; p. 284.
Motor-control system. H. W. Cheney. No. 992,852; May 23; Sp. p. 4327; Gaz. vol. 166; p. 797.
Motor-control system. W. T. Sears and S. H. Keefer. No. 996,529; June 27; Sp. p. 5338; Gaz. vol. 167; p. 935.
Motor-control system. H. A. Steen. No. 998,419; July 18; Sp. p. 3974; Gaz. vol. 168; p. 704.
Motor-control system. A. Churchward. No. 1,003,431; Sept. 19; Sp. p. 2712; Gaz. vol. 170; p. 498.
Motor-control system. L. Janisch and W. Linke. No. 1,003,464; Sept. 19; Sp. p. 2784; Gaz. vol. 170; p. 509.
Motor-control system. H. E. Frost. No. 1,005,638; Oct. 10; Sp. p. 2355; Gaz. vol. 171; p. 404.
Motor-control system. H. E. White. No. 1,008,625; Nov. 14; Sp. p. 2255; Gaz. vol. 172; p. 384.
Motor-control system. H. W. Cheney. No. 1,011,919; Dec. 19; Sp. p. 3426; Gaz. vol. 173; p. 600.
Motor-control system, Electric-. A. C. Eastwood and J. F. Schnabel. No. 984,651; Feb. 21; Sp. p. 3047; Gaz. vol. 163; p. 540.
Motor-control system, Electric-. T. E. Barnum. No. 991,189; May 2; Sp. p. 769; Gaz. vol. 166; p. 131.
Motor-control system, Electric-. H. D. James. No. 992,201; May 16; Sp. p. 2904; Gaz. vol. 166; p. 540.
Motor-control system, Electric-. H. D. James and E. Lehr. No. 992,202; May 16; Sp. p. 2906; Gaz. vol. 166; p. 541.
Motor-control system, Electric-. J. H. Hall. No. 998,245; July 18; Sp. p. 3571; Gaz. vol. 168; p. 640.
Motor-control system, Electric-. F. R. Fishback. No. 1,005,700; Oct. 10; Sp. p. 2486; Gaz. vol. 171; p. 426.
Motor-control system, Electric-. A. C. Eastwood and H. F. Stratton. No. 1,008,453; Nov. 14; Sp. p. 1886; Gaz. vol. 172; p. 322.
Motor-control system, Electric-. J. F. Schnabel. No. 1,008,495; Nov. 14; Sp. p. 1964; Gaz. vol. 172; p. 336.
Motor-control system, Electric-. H. D. James. No. 1,010,263; Nov. 28; Sp. p. 5724; Gaz. vol. 172; p. 1024.
Motor-controlled switch. A. J. Barlow. No. 980,475; Jan. 3; Sp. p. 638; Gaz. vol. 162; p. 105.

Alphabetical list of inventions—Continued.

Motor-controller. C. T. Henderson. No. 982,362; Jan. 24; Sp. p. 4836; Gaz. vol. 162; p. 838.
Motor-controller. A. Simon. No. 985,215; Feb. 28; Sp. p. 4237; Gaz. vol. 163; p. 769.
Motor-controller. T. E. Barnum. No. 991,190; May 2; Sp. p. 776; Gaz. vol. 166; p. 131.
Motor-controller. C. T. Henderson. No. 994,080; May 30; Sp. p. 6947; Gaz. vol. 166; p. 1246.
Motor-controller. C. T. Henderson. No. 994,159; June 6; Sp. p. 108; Gaz. vol. 167; p. 21.
Motor-controller. W. C. Stevens. No. 995,730; June 20; Sp. p. 3570; Gaz. vol. 167; p. 628.
Motor-controller. C. E. Lord. No. 998,361; July 18; Sp. p. 3851; Gaz. vol. 168; p. 684.
Motor-controller. T. E. Barnum. No. 999,947; Aug. 8; Sp. p. 1510; Gaz. vol. 169; p. 286.
Motor controller, Electric-. W. A. Paris. No. 989,401; Apr. 11; Sp. p. 2351; Gaz. vol. 165; p. 397.
Motor controller, Electric-. F. T. Taylor. No. 990,464; Apr. 25; Sp. p. 4701; Gaz. vol. 165; p. 827.
Motor controller, Electric-. F. T. Taylor. No. 991,181; May 2; Sp. p. 752; Gaz. vol. 166; p. 127.
Motor controller, Electric-. A. J. Horton. No. 991,206; May 2; Sp. p. 809; Gaz. vol. 166; p. 137.
Motor controller, Electric-. A. W. Schramm and E. B. Wilford. No. 1,002,766; Sept. 5; Sp. p. 1301; Gaz. vol. 170; p. 196.
Motor controller, Electric-. F. W. Lacey. No. 1,007,456; Oct. 31; Sp. p. 6379; Gaz. vol. 171; p. 1158.
Motor-controlling apparatus. S. H. Keefer. No. 1,003,269; Sept. 12; Sp. p. 2387; Gaz. vol. 170; p. 410.
Motor-controlling apparatus. F. W. Darlington. No. 1,005,420; Oct. 10; Sp. p. 1841; Gaz. vol. 171; p. 328.
Motor-controlling apparatus, Alternating-current-. A. Sundh. No. 1,012,477; Dec. 19; Sp. p. 4611; Gaz. vol. 173; p. 791.
Motor-controlling apparatus, Electric-. H. W. Leonard. No. 981,579; Jan. 10; Sp. p. 3154; Gaz. vol. 162; p. 514.
Motor-controlling apparatus, Electric-. G. H. Whittingham. No. 982,913; Jan. 31; Sp. p. 6009; Gaz. vol. 162; p. 1053.
Motor-controlling apparatus, Electric-. H. W. Leonard. No. 984,511; Feb. 14; Sp. p. 2713; Gaz. vol. 163; p. 455.
Motor-controlling apparatus, Induction-. A. Sundh. No. 1,002,336; Sept. 5; Sp. p. 355; Gaz. vol. 170; p. 50.
Motor-controlling apparatus, Variable-speed. A. Sundh. No. 1,005,355; Oct. 10; Sp. p. 1716; Gaz. vol. 171; p. 306.
Motor-controlling device. A. J. Horton. No. 982,365; Jan. 24; Sp. p. 4843; Gaz. vol. 162; p. 839.
Motor-controlling device. C. E. Carpenter. No. 983,976; Feb. 14; Sp. p. 1577; Gaz. vol. 163; p. 275.
Motor-controlling device. C. E. Zix. No. 996,388; June 27; Sp. p. 5047; Gaz. vol. 167; p. 889.
Motor-controlling device. L. L. Tatum. No. 1,007,402; Oct. 31; Sp. p. 6263; Gaz. vol. 171; p. 1140.
Motor-controlling device. M. W. Day. No. 1,011,757; Dec. 12; Sp. p. 3050; Gaz. vol. 173; p. 510.
Motor-controlling device, Alternating-current-. D. L. Lindquist. No. 980,302; Jan. 3; Sp. p. 229; Gaz. vol. 162; p. 44.
Motor-controlling device, Electric-. T. Barnard. No. 1,002,484; Sept. 5; Sp. p. 687; Gaz. vol. 170; p. 100.
Motor-controlling device, Pneumatically-operated-. T. Danquard and W. J. Keeley. No. 993,038; May 23; Sp. p. 4738; Gaz. vol. 166; p. 862.
Motor-controlling switch. S. H. Keefer. No. 983,063; Jan. 31; Sp. p. 6350; Gaz. vol. 162; p. 1103.
Motor-controlling system. C. T. Henderson. No. 985,413; Feb. 28; Sp. p. 4666; Gaz. vol. 163; p. 834.
Motor-cooling device, Vehicle-. B. C. Loring. No. 983,505; Feb. 7; Sp. p. 532; Gaz. vol. 163; p. 85.
Motor-cranking device, Gas-. R. L. Norcross. No. 991,880; May 9; Sp. p. 2243; Gaz. vol. 166; p. 400.
Motor-cycle drive mechanism. B. G. Anderson. No. 985,877; Mar. 7; Sp. p. 248; Gaz. vol. 164; p. 40.
Motor-cycles, Spring-cushion fork structure for. F. H. Pommer. No. 980,999; Jan. 10; Sp. p. 1890; Gaz. vol. 162; p. 313.
Motor derrick-sleigh for loading logs. W. S. Kennedy. No. 980,791; Jan. 3; Sp. p. 1308; Gaz. vol. 162; p. 210.
Motor drive, Electric-. R. H. Rogers. No. 1,008,562; Nov. 14; Sp. p. 2112; Gaz. vol. 172; p. 361.
Motor for operating fans or other similar devices, Spring-controlled. D. Di Carlo. No. 998,757; July 25; Sp. p. 4718; Gaz. vol. 168; p. 854.
Motor governor, Spring-. L. M. Ferguson. No. 993,355; May 30; Sp. p. 5410; Gaz. vol. 166; p. 999.
Motor-horns and the like, Reed for. E. Teste. No. 1,000,307; Aug. 8; Sp. p. 2306; Gaz. vol. 169; p. 409.
Motor-lock. F. P. Illsley. No. 1,000,523; Aug. 15; Sp. p. 2798; Gaz. vol. 169; p. 516.
Motor meter, Electric-. P. May. No. 993,310; May 23; Sp. p. 5293; Gaz. vol. 166; p. 949.
Motor or generator brush-holder. F. L. Sessions. No. 1,004,479; Sept. 26; Sp. p. 5033; Gaz. vol. 170; p. 886.
Motor paddle appliance, Wave-. O. Nelson. No. 1,002,742; Sept. 5; Sp. p. 1260; Gaz. vol. 170; p. 188.
Motor-priming apparatus. G. W. Brown. No. 1,004,359; Sept. 26; Sp. p. 4775; Gaz. vol. 170; p. 844.
Motor-regulating device, Wind-. K. E. Nerén. No. 983,163; Jan. 31; Sp. p. 6528; Gaz. vol. 162; p. 1135.
Motor-regulating means, Electric-. C. de Kandó. No. 989,609; Apr. 18; Sp. p. 2832; Gaz. vol. 165; p. 501.
Motor regulation, Electric-. A. F. Pieper. No. 985,932; Mar. 7; Sp. p. 380; Gaz. vol. 164; p. 60.
Motor speed-regulator, Electric-. J. T. Kalweit and W. H. Gaulke. No. 1,001,647; Aug. 29; Sp. p. 5214; Gaz. vol. 169; p. 966.
Motor-starter. J. F. Wilkinson. No. 1,002,616; Sept. 5; Sp. p. 979; Gaz. vol. 170; p. 145.
Motor starter, Alternating-current-. W. H. Gaulke. No. 1,009,661; Nov. 21; Sp. p. 4492; Gaz. vol. 172; p. 774.
Motor starter and regulator, Compound-. W. H. Gaulke. No. 1,008,811; Nov. 14; Sp. p. 2664; Gaz. vol. 172; p. 447.
Motor-starter, Automatic. C. D. Knight. No. 1,003,915; Sept. 19; Sp. p. 3727; Gaz. vol. 170; p. 664.
Motor starter, Electric-. C. L. Goughnour. No. 1,012,198; Dec. 19; Sp. p. 4064; Gaz. vol. 173; p. 698.
Motor starter, Gas-. C. F. Jenkins. No. 1,003,752; Sept. 19; Sp. p. 3418; Gaz. vol. 170; p. 609.
Motor-starter or electric-circuit controller. G. G. Thompson. No. 992,294; May 16; Sp. p. 3140; Gaz. vol. 166; p. 572.
Motor-starter switch. W. S. Evans. No. 1,009,229; Nov. 21; Sp. p. 3587; Gaz. vol. 172; p. 627.
Motor-starting device for polyphase circuits. W. O. Lum. No. 1,001,765; Aug. 29; Sp. p. 5483; Gaz. vol. 169; p. 1008.
Motor-starting device, Internal-combustion. F. T. Wiley. No. 1,002,949; Sept. 12; Sp. p. 1724; Gaz. vol. 170; p. 299.
Motor-starting switch. F. G. Dustin. No. 1,000,384; Aug. 15; Sp. p. 2495; Gaz. vol. 169; p. 467.
Motor-stopping device. W. Bartholomew and D. J. Phillips. No. 997,228; July 4; Sp. p. 1326; Gaz. vol. 168; p. 216.
Motor-support. E. D. Mackintosh. No. 1,011,129; Dec. 5; Sp. p. 1609; Gaz. vol. 173; p. 254.
Motor suspension, Electric-vehicle-. K. von Kandó. No. 989,610; Apr. 18; Sp. p. 2835; Gaz. vol. 165; p. 501.
Motor suspension means, Electric-. C. A. Psilander. No. 981,795; Jan. 17; Sp. p. 3597; Gaz. vol. 162; p. 611.
Motor-tractor. H. C. Shoemaker. No. 1,012,458; Dec. 19; Sp. p. 4579; Gaz. vol. 173; p. 785.
Motors and dynamos, Construction of electric. C. E. Willey. No. 999,935; Aug. 8; Sp. p. 1484; Gaz. vol. 169; p. 281.
Motors, Automatic circuit-controller for electric. S. Sparrow. No. 1,006,802; Oct. 24; Sp. p. 4945; Gaz. vol. 171; p. 876.
Motors, Balancing means for fluid-pressure. F. Hodgkinson. No. 1,012,638; Dec. 26; Sp. p. 4971; Gaz. vol. 173; p. 893.
Motors, Controlling system for reversing-. S. H. Keefer. No. 996,414; June 27; Sp. p. 5126; Gaz. vol. 167; p. 898.
Motors, Device for regulating the speed of pneumatic. L. W. Southgate. No. 1,004,213; Sept. 26; Sp. p. 4491; Gaz. vol. 170; p. 795.
Motors driving motor-trains, Means for operating electric. W. A. T. Müller. No. 992,682; May 16; Sp. p. 3962; Gaz. vol. 166; p. 707.
Motors, Governing of fluid-operated. C. A. Parsons and A. Q. Carnegie. No. 986,943; Mar. 14; Sp. p. 2513; Gaz. vol. 164; p. 434.
Motors in series, Protection of high-tension direct-current. T. von Zweigbergk. No. 1,006,619; Oct. 24; Sp. p. 4561; Gaz. vol. 171; p. 813.
Motors, Locking device for controlling-levers of. D. H. Evans. No. 1,004,396; Sept. 26; Sp. p. 4853; Gaz. vol. 170; p. 857.
Motors, Means for reversing explosion-. O. Gravdahl. No. 1,007,196; Oct. 31; Sp. p. 5845; Gaz. vol. 171; p. 1067.
Motors, Method and means for controlling electric. H. W. Leonard. No. 1,003,926; Sept. 19; Sp. p. 3779; Gaz. vol. 170; p. 668.
Motors, Method of and means for controlling electric. A. C. Eastwood. No. 1,000,161; Aug. 8; Sp. p. 2001; Gaz. vol. 169; p. 359.
Motors operated by hot fluid, Means for preventing a quick heating of. C. A. Parsons. No. 986,941; Mar. 14; Sp. p. 2501; Gaz. vol. 164; p. 433.
Motors, Priming attachment for gasolene-. E. B. Stowe. No. 995,201; June 13; Sp. p. 2389; Gaz. vol. 167; p. 414.
Motors, Reversing-switch for electric. V. Harhorn. No. 1,011,778; Dec. 12; Sp. p. 3092; Gaz. vol. 173; p. 518.
Motors, Safety starting-crank for explosive-. C. R. Ellis. No. 1,007,775; Nov. 7; Sp. p. 273; Gaz. vol. 172; p. 44.
Motors, Short-circuiting device for magneto-electric igniting apparatus for explosion-. G. Honold. No. 993,375; May 30; Sp. p. 5461; Gaz. vol. 166; p. 1005.
Motors, Unit switch-control system for electric. E. Lehr. No. 992,217; May 16; Sp. p. 2934; Gaz. vol. 166; p. 545.
Mouse-trap. C. J. Edwards. No. 982,486; Jan. 24; Sp. p. 5110; Gaz. vol. 162; p. 881.
Mouse-trap. H. A. Questroy. No. 1,002,082; Aug. 29; Sp. p. 6156; Gaz. vol. 169; p. 1113.
Mouse-trap. O. H. Nebel. No. 1,005,740; Oct. 10; Sp. p. 2560; Gaz. vol. 171; p. 440.

Alphabetical list of inventions—Continued.

Mouthpiece. L. Steinberger. No. 988,907; Apr. 4; Sp. p. 1287; Gaz. vol. 165; p. 207.
Mouthpiece. L. Steinberger. No. 989,076; Apr. 11; Sp. p. 1658; Gaz. vol. 165; p. 288.
Mouthpiece. E. E. Claussen. No. 1,007,919; Nov. 7; Sp. p. 622; Gaz. vol. 172; p. 96.
Mouthpiece grinding, facing, and polishing device. C. H. Lind. No. 987,383; Mar. 21; Sp. p. 3433; Gaz. vol 164; p. 615.
Mouthpiece-tubes, Making. J. C. Müller. No. 985,365; Feb. 28; Sp. p. 4561; Gaz. vol. 163; p. 818.
Movement device, Uniform-. A. Sundh. No. 994,212; June 6; Sp. p. 234; Gaz. vol. 167; p. 40.
Mower. J. A. Sohn. No. 1,012,736; Dec. 26; Sp. p. 5182; Gaz. vol. 173; p. 928.
Mower and tedder, Combined. C. Milstead. No. 982,686; Jan. 24; Sp. p. 5496; Gaz. vol. 162; p. 948.
Mower attachment, Lawn-. A. J. Tulane. No. 1,005,086; Oct. 3; Sp. p. 1100; Gaz. vol. 171; p. 186.
Mower attachment, Lawn-. M. Regan. No. 1,010,318; Nov. 28; Sp. p. 5849; Gaz. vol. 172; p. 1042.
Mower buncher attachment. J. A. Oliver. No. 1,003,061; Sept. 12; Sp. p. 1931; Gaz. vol. 170; p. 334.
Mower finger-bars, Treating. B. R. Benjamin. No. 995,432; June 20; Sp. p. 2922; Gaz. vol. 167; p. 521.
Mower, Gearless. J. P. De Rose. No. 996,622; July 4; Sp. p. 57; Gaz. vol. 168; p. 11.
Mower grass-catcher, Lawn-. H. F. Wessel, Jr. No. 986,883; Mar. 14; Sp. p. 2401; Gaz. vol. 164; p. 415.
Mower, Lawn-. E. F. Pond. No. 981,684; Jan. 17; Sp. p. 3386; Gaz. vol. 162; p. 572.
Mower, Lawn-. A. Sayles. No. 984,445; Feb. 14; Sp. p. 2559; Gaz. vol. 163; p. 433.
Mower, Lawn-. O. R. Chaplin. No. 984,471; Feb. 14; Sp. p. 2615; Gaz. vol. 163; p. 442.
Mower, Lawn-. H. H. Spenard. No. 984,861; Feb. 21; Sp. p. 3473; Gaz. vol. 163; p. 614.
Mower, Lawn-. M. Maldino. No. 990,998; May 2; Sp. p. 358; Gaz. vol. 166; p. 62.
Mower, Lawn-. G. E. Townsend. No. 991,910; May 9; Sp. p. 2306; Gaz. vol. 166; p. 411.
Mower, Lawn-. F. M Moody. No. 994,184; June 6; Sp. p. 172; Gaz. vol. 167; p. 30.
Mower, Lawn-. J. Pennell. No. 999,123; July 25; Sp. p. 5505; Gaz. vol. 168; p. 980.
Mower, Lawn-. C. W. Felker. No. 1,000,393; Aug. 15; Sp. p. 2514; Gaz. vol. 169; p. 470
Mower, Lawn-. M. Banowetz. No. 1,001,917; Aug. 29; Sp. p. 5826; Gaz. vol. 169; p. 1060.
Mower, Lawn-. W. T. Wood and A. D. Knox. No. 1,002,550; Sept. 5; Sp. p. 822; Gaz. vol. 170; p. 121
Mower, Lawn-. A. G. Tulane. No. 1,006,807; Oct. 24; Sp. p. 4955; Gaz. vol. 171; p. 878.
Mower, Lawn-. F. M. Moody. No. 1,012,892; Dec. 26; Sp. p. 5557; Gaz. vol. 173; p. 980.
Mower, Motor lawn-. W. E. Coldwell. No. 1,012,521; Dec. 19; Sp. p. 4696; Gaz. vol. 173; p. 807.
Mower or harvester. H. L. Hopkins. No. 980,782; Jan. 3; Sp. p. 1287; Gaz. vol. 162; p. 207.
Mower roller, Lawn-. F. J. Guy. No. 992,499; May 16; Sp. p. 3591; Gaz. vol. 166; p. 645.
Mowers, Cutting apparatus for. J. W. Pridmore. No. 995,902; June 20; Sp. p. 3958; Gaz. vol. 167; p. 686.
Mowers, Endless cutting apparatus for. J. H. Rosean. No. 1,000,949; Aug. 15; Sp. p. 3724; Gaz. vol. 169; p. 667.
Mowers, Grass-collector for lawn-. W. J. Richardson. No. 997,327; July 11; Sp. p. 1544; Gaz. vol. 168; p. 280.
Mowing and reaping machines, Divider for. G. H. Daugherty. No. 1,005,169; Oct. 10; Sp. p. 1274; Gaz. vol. 171; p. 237.
Mowing-machine. M. G. Otis. No. 982,016; Jan. 17; Sp. p. 4127; Gaz. vol. 162; p. 689.
Mowing-machine. A. Monroe. No. 987,588; Mar. 21; Sp. p. 3839; Gaz. vol. 164; p. 684.
Mowing-machine. J. G. Fahr. No. 992,347; May 16; Sp. p. 3285; Gaz. vol. 166; p. 592.
Mowing-machine. J. and E. Botsch. No. 992,704; May 16; Sp. p. 4004; Gaz. vol. 166; p. 715.
Mowing-machine. B. R. Benjamin and W. Webber. No. 995,398; June 13; Sp. p. 2828; Gaz. vol. 167; p. 481.
Mowing-machine. W. Webber. No. 995,829; June 20; Sp. p. 3799; Gaz. vol. 167; p. 661.
Mowing-machine. J. Bader. No. 999,291; Aug. 1; Sp. p. 186; Gaz. vol. 169; p. 35.
Mowing-machine. R. A. Lacey. No. 1,002,160; Aug. 29; Sp. p. 6288; Gaz. vol. 169; p. 1137.
Mowing-machine. H. T. Barnes. No. 1,005,125; Oct. 10; Sp. p. 1179; Gaz. vol. 171; p. 222.
Mowing-machine. A. Pape. No. 1,009,853; Nov. 28; Sp. p. 4906; Gaz. vol. 172; p. 887.
Mowing-machine cutter-bars, Safety-check for. N. Rogers. No. 995,907; June 20; Sp. p. 3964; Gaz. vol. 167; p. 688.
Mowing-machine hay-tedder attachment. C. F. Agner. No. 1,002,552; Sept. 5; Sp. p. 829; Gaz. vol. 170; p. 122.
Mowing-machine-lubricating device. M. Schiller. No. 1,003,518; Sept. 19; Sp. p. 2887; Gaz. vol. 170; p. 527.
Mowing-machine rake attachment. E. Severson. No. 1,001,777; Aug. 29; Sp. p. 5505; Gaz. vol. 169; p. 1011.
Mowing-machine tedder attachment. C. H. Reckefus. No. 1,002,451; Sept. 5; Sp. p. 615; Gaz. vol. 170; p. 88.
Mowing-machines, Swath-rod attachment for. A. Burton. No. 980,195; Jan. 3; Sp. p. 32; Gaz. vol. 162; p. 8.
Mowing or reaping machine cutting apparatus. M. Armentrout. No. 996,825; July 4; Sp. p. 461; Gaz. vol. 168; p. 76.
Mucilage and other liquids, Spreader for. B. B. Thorsen. No. 1,000,053; Aug. 8; Sp. p. 1724; Gaz. vol. 169; p. 322.
Muffler. J. A. and C. A. Xardell. No. 980,469; Jan. 3; Sp. p. 627; Gaz. vol. 162; p. 103.
Muffler. G. Gray. No. 984,212; Feb. 14; Sp. p. 2096; Gaz. vol. 163; p. 356.
Muffler. J. J. Radell. No. 990,165; Apr. 18; Sp. p. 3994; Gaz. vol. 165; p. 689.
Muffler. M. Karminski and C. Peters. No. 991,515; May 9; Sp. p. 1469; Gaz. vol. 166; p. 275.
Muffler. T. Donohue. No. 992,344; May 16; Sp. p. 3279; Gaz. vol. 166; p. 591.
Muffler. R. E. Loper. No. 995,265; June 13; Sp. p. 2527; Gaz. vol. 167; p. 436.
Muffler. J. O. Schmitt. No. 996,800; July 4; Sp. p. 397; Gaz. vol. 168; p. 68.
Muffler. W. H. Winslow. No. 1,005,913; Oct. 17; Sp. p. 2940; Gaz. vol. 171; p. 533.
Muffler. J. Rosenfeld. No. 1,006,288; Oct. 17; Sp. p. 3803; Gaz. vol. 171; p. 666.
Muffler. C. Red. No. 1,006,595; Oct. 24; Sp. p. 4514; Gaz. vol. 171; p. 805.
Muffler and air-heater, Combined. E. D. Lewis. No. 1,003,620; Sept. 19; Sp. p. 3129; Gaz. vol. 170; p. 564.
Muffler cut-out. G. Lundberg. No. 1,006,108; Oct. 17; Sp. p. 3363; Gaz. vol. 171; p. 600.
Muffler, Rotary power-. G. Lewis. No. 997,624; July 11; Sp. p. 2143; Gaz. vol. 168; p. 380.
Muffler, Woven tubular. C. Seidman. No. 986,869; Mar. 14; Sp. p. 2365; Gaz. vol. 164; p. 410.
Mule, Self-acting. P. Vindrier. No. 984,786; Feb. 21; Sp. p. 3342; Gaz. vol. 163; p. 589.
Multifloor kiln. C. Brüne. No. 1,001,347; Aug. 22; Sp. p. 4628; Gaz. vol. 169; p. 836.
Multiple-cylinder engine. R. Hennig. No. 999,561; Aug. 1; Sp. p. 733; Gaz. vol. 169; p. 126.
Multiple drill. J. R. Stephenson. No. 1,012,024; Dec. 19; Sp. p. 3670; Gaz. vol. 173; p. 638.
Multiple wrench. J. A. Higgins. No. 992,873; May 23; Sp. p. 4381; Gaz. vol. 166; p. 804.
Multiplying-machine. S. Horr and W. B. Travis. No. 1,011,057; Dec. 5; Sp. p. 1431; Gaz. vol. 173; p. 228.
Music-book holder and leaf-turner. W. H. Trayer and F. Campbell. No. 1,005,673; Oct. 10; Sp. p. 2436; Gaz. vol. 171; p. 418.
Music-holder. E. S. Stem and T. S. Boyd. No. 981,026; Jan. 10; Sp. p. 1956; Gaz. vol. 162; p. 323.
Music-holder. L. A. Brinkman. No. 1,009,043; Nov. 21; Sp. p. 3160; Gaz. vol. 172; p. 560.
Music holder and turner. M. D. Myers. No. 1,006,587; Oct. 24; Sp. p. 4501; Gaz. vol. 171; p. 802.
Music-indicator. J. MacMaster. No. 996,935; July 4; Sp. p. 694; Gaz. vol. 168; p. 114.
Music-instruction board. A. L. Stage. No. 1,000,448; Aug. 15; Sp. p. 2639; Gaz. vol. 169; p. 490.
Music-leaf turner. W. W. Duck. No. 981,250; Jan. 10; Sp. p. 2479; Gaz. vol. 162; p. 403.
Music-leaf turner. W. A. Mathwig. No. 981,780; Jan. 17; Sp. p. 3567; Gaz. vol. 162; p. 606.
Music-leaf turner. E. Scardaccione. No. 986,764; Mar. 14; Sp. p. 2139; Gaz. vol. 164; p. 373.
Music-leaf turner. M. Detweiler. No. 989,130; Apr. 11; Sp. p. 1755; Gaz. vol. 165; p. 306.
Music-leaf turner. M. S. Leal, Jr. No. 991,519; May 9; Sp. p. 1477; Gaz. vol. 166; p. 276.
Music-leaf turner. F. J. Latendresse. No. 993,179; May 23; Sp. p. 5034; Gaz. vol. 166; p. 909.
Music-leaf turner. M. Vineyard. No. 993,740; May 30; Sp. p. 6271; Gaz. vol. 166; p. 1132
Music-leaf turner. H. Burchell. No. 996,208; June 27; Sp. p. 4635; Gaz. vol. 167; p. 827.
Music-leaf turner. O. B Willi. No. 997,107; July 4; Sp. p. 1079; Gaz. vol. 168; p. 175.
Music-leaf turner. A. A. Lehmann. No. 997,839; July 11; Sp. p. 2652; Gaz. vol. 168; p. 455.
Music-leaf turner. C. H. and J. M. Davis. No. 998,842. July 25; Sp. p. 4906; Gaz. vol. 168; p. 883.
Music-leaf turner. J. Diethelm. No. 1,005,174; Oct. 10; Sp. p. 1287; Gaz. vol. 171; p. 239.
Music-leaf turner. A. Johnsen. No. 1,005,710; Oct. 10; Sp. p. 2503; Gaz. vol. 171; p. 430.
Music-leaf turner. T. J. Converse. No. 1,006,437; Oct. 17; Sp. p. 4110; Gaz. vol. 171; p. 716.
Music-leaf turner. A. K. L. Black. No. 1,006,904; Oct. 24; Sp. p. 5189; Gaz. vol. 171; p. 912.
Music-leaf turner. I. E. Watson. No. 1,009,811; Nov. 28; Sp. p. 4814; Gaz. vol. 172; p. 872.
Music-leaf turner. J. B. Murray. No. 1,010,944; Dec. 5; Sp. p. 1208; Gaz. vol. 173; p. 190.
Music-leaf turner. E. G. Abbey. No. 1,011,895; Dec. 19; Sp. p. 3367; Gaz. vol. 173; p. 591.
Music-leaf turner. W A. Lewis. No. 1,012,377; Dec. 19; Sp. p. 4430; Gaz. vol. 173; p. 758.
Music-leaf turner. L. A. Sandoe. No. 1,012,447; Dec. 19; Sp. p. 4561; Gaz. vol. 173; p. 781.

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Music-leaf turner. E. R. Smith. No. 1,012,732; Dec. 26; Sp. p. 5172; Gaz. vol. 173; p. 926.
Music-leaf-turning device. A. Zander. No. 1,011,700; Dec. 12; Sp. p. 2935; Gaz. vol. 173; p. 491.
Music, Machine for making perforated. P. J. Meahl. No. 980,316; Jan. 3; Sp. p. 261; Gaz. vol. 162; p. 49.
Music, Machine for making perforated. E. W. Myers. No. 984,289; Feb. 14; Sp. p. 2262; Gaz. vol. 163; p. 383.
Music, Means for representing. W. B. Kraft. No. 1,009,671; Nov. 21; Sp. p. 4513; Gaz. vol. 172; p. 777.
Music, Means for turning the pages of sheet-. E. J. Schleicher. No. 998,265; July 18; Sp. p. 3614; Gaz. vol. 168; p. 648.
Music or like leaf turner. G. W. Bischof. No. 984,065; Feb. 14; Sp. p. 1774; Gaz. vol. 163; p. 305.
Music-perforating machine, Sheet-. J. F. White. No. 981,341; Jan. 10; Sp. p. 2674; Gaz. vol. 162; p. 434.
Music-player, Electrical. D. J. Hauss. No. 982,814; Jan. 31; Sp. p. 5791; Gaz. vol. 162; p. 1020.
Music-players, Accenting device for. T. P. Brown. No. 1,011,567; Dec. 12; Sp. p. 2650; Gaz. vol. 173; p. 445.
Music punch, Roll-. J. C. Lease. No. 1,005,562; Oct. 10; Sp. p. 2174; Gaz. vol. 171; p. 379.
Music-record for automatic musical instruments. J. J. Walker. No. 1,012,178; Dec. 19; Sp. p. 4013; Gaz. vol. 173; p. 691.
Music-recorder. E. W. Myers. No. 1,004,184; Sept. 26; Sp. p. 4443; Gaz. vol. 170; p. 786.
Music-recording and automatic playing device for organs and like instruments. A. Zollinger. No. 1,004,839; Oct. 3; Sp. p. 636; Gaz. vol. 171; p. 103.
Music-roll. A. W. Jones. No. 1,008,156; Nov. 7; Sp. p. 1081; Gaz. vol. 172; p. 177.
Music-roll holder. W. A. Page. No. 993,866; May 30; Sp. p. 6518; Gaz. vol. 166; p. 1175.
Music-roll holder. I. B. Smith. No. 1,008,440; Nov. 14; Sp. p. 1836; Gaz. vol. 172; p. 317.
Music-rolls, Machine for marking perforated. P. J. Meahl. No. 998,025; July 18; Sp. p. 3086; Gaz. vol. 168; p. 562.
Music-sheet and tracker-board, Perforated. W. S. Pain. No. 980,555; Jan. 3; Sp. p. 827; Gaz. vol. 162; p. 133.
Music-sheet driver. F. W. Draper. No. 986,556; Mar. 14; Sp. p. 1705; Gaz. vol. 164; p. 302.
Music-sheet-feeding device for self-playing instruments, Electric. H. K. Sandell. No. 998,264; July 18; Sp. p. 3609; Gaz. vol. 168; p. 647.
Music-sheet winding and rewinding mechanism. G. W. and R. Paulson. No. 1,000,549; Aug. 15; Sp. p. 2867; Gaz. vol. 169; p. 526.
Music-sheets and trackers, Device for adjusting the relation between. L. W. Southgate. No. 995,492; June 20; Sp. p. 3045; Gaz. vol. 167; p. 542.
Music-sheets, Apparatus for copying. W. H. Grimsdale. No. 985,258; Feb. 28; Sp. p. 4333; Gaz. vol. 163; p. 783.
Music-sheets, Apparatus for cutting perforated. A. J. Swing. No. 983,094; Jan. 31; Sp. p. 6410; Gaz. vol. 162; p. 1114.
Music-sheets, Machine for making perforated. P. J. Meahl. No. 984,834; Feb. 21; Sp. p. 3430; Gaz. vol. 163; p. 605.
Music-sheets, Machine for making perforated. P. J. Meahl. No. 999,328; Aug. 1; Sp. p. 258; Gaz. vol. 169; p. 47.
Music-spool adjusting and transposing device. J. H. Ludwig. No. 981,776; Jan. 17; Sp. p. 3561; Gaz. vol. 162; p. 604.
Music-stand. J. Caputi. No. 987,547; Mar. 21; Sp. p. 3751; Gaz. vol. 164; p. 670.
Music-stand. H. U. Rummel. No. 992,908; May 23; Sp. p. 4461; Gaz. vol. 166; p. 818.
Music-stand. J. Boraks. No. 1,006,427; Oct. 17; Sp. p. 4093; Gaz. vol. 171; p. 714.
Music-stand and leaf-turning apparatus. J. A. Palmer. No. 1,008,671; Nov. 14; Sp. p. 2365; Gaz. vol. 172; p. 399.
Music-stand, Incased telescopic. M. A. Jellison. No. 987,884; Mar. 28; Sp. p. 4511; Gaz. vol. 164; p. 815.
Music-stands, Light attachment for. D. Williams. No. 1,010,335; Nov. 28; Sp. p. 5888; Gaz. vol. 172; p. 1048.
Music-timing device. W. J. Jackman. No. 991,066; May 2; Sp. p. 495; Gaz. vol. 166; p. 85.
Music-transcribing indicator. C. H. Hakendorf. No. 997,995; July 18; Sp. p. 3016; Gaz. vol. 168; p. 551.
Music-turner. J. W. Grimsley. No. 991,613; May 9; Sp. p. 1695; Gaz. vol. 166; p. 311.
Music-turner. C. H. Gowdey. No. 995,959; June 20; Sp. p. 4061; Gaz. vol. 167; p. 707.
Music turner, Sheet-. C. E. Bell. No. 987,538; Mar. 21; Sp. p. 3732; Gaz. vol. 164; p. 667.
Music-turning device. H. L. Moran. No. 1,010,671; Dec. 5; Sp. p. 593; Gaz. vol. 173; p. 95.
Music-winding mechanism. C. Fessia. No. 996,071; June 27; Sp. p. 4301; Gaz. vol. 167; p. 780.
Musical instrument. F. G. Gasche. No. 980,938; Jan. 10; Sp. p. 1682; Gaz. vol. 162; p. 291.
Musical instrument. H. G. Lehnert. No. 982,732; Jan. 24; Sp. p. 5594; Gaz. vol. 162; p. 962.
Musical instrument. C. Meyer. No. 989,628; Apr. 18; Sp. p. 2870; Gaz. vol. 165; p. 507.
Musical instrument. A. and O. Philipps. No. 991,234; May 2; Sp. p. 865; Gaz. vol. 166; p. 146.
Musical instrument. H. E. French. No. 991,494; May 9; Sp. p. 1426; Gaz. vol. 166; p. 268.
Musical instrument. C. C. Hill. No. 995,967; June 20; Sp. p. 4079; Gaz. vol. 167; p. 709.
Musical instrument. M. S. Wright. No. 1,002,353; Sept. 5; Sp. p. 403; Gaz. vol. 170; p. 57.
Musical instrument. H. Claussen. No. 1,010,724; Dec. 5; Sp. p. 719; Gaz. vol. 173; p. 114.
Musical instrument, Automatic. L. H. Maier. No. 992,018; May 9; Sp. p. 2510; Gaz. vol. 166; p. 447.
Musical instrument, Automatic. L. H. Maier. No. 992,367; May 16; Sp. p. 3327; Gaz. vol. 166; p. 598.
Musical instrument, Automatic. W. F. Bayer. No. 994,052; May 30; Sp. p. 6887; Gaz. vol. 166; p. 1237.
Musical instrument, Automatic. L. H. Maier. No. 1,003,483; Sept. 19; Sp. p. 2820; Gaz. vol. 170; p. 516.
Musical-instrument expression device. L. H. Maier. No. 1,009,330; Nov. 21; Sp. p. 3808; Gaz. vol. 172; p. 663.
Musical-instrument keyboard. O. A. M. Smith. No. 1,009,194; Nov. 21; Sp. p. 3473; Gaz. vol. 172; p. 613.
Musical instrument, Mechanical. H. P. Ball. No. 984,256; Feb. 14; Sp. p. 2189; Gaz. vol. 163; p. 371.
Musical instrument, Mechanical. H. P. Ball. No. 984,257; Feb. 14; Sp. p. 2195; Gaz. vol. 163; p. 371.
Musical instrument, Mechanical. G. D. Rego. No. 989,874; Apr. 18; Sp. p. 3389; Gaz. vol. 165; p. 591.
Musical instrument, Mechanical. G. P. Brand. No. 990,831; May 2; Sp. p. 5; Gaz. vol. 166; p. 4.
Musical instrument, Mechanical. F. G. Lynde. No. 996,100; June 27; Sp. p. 4357; Gaz. vol. 167; p. 789.
Musical instrument, Mechanical. J. A. Weser. No. 1,010,551; Dec. 5; Sp. p. 325; Gaz. vol. 173; p. 52.
Musical instrument, Mechanical. J. McTammany. No. 1,010,780; Dec. 5; Sp. p. 854; Gaz. vol. 173; p. 134.
Musical-instrument mouthpiece. H. E. Cook and E. P. Bullock. No. 995,663; June 20; Sp. p. 3428; Gaz. vol. 167; p. 604.
Musical-instrument mouthpiece. A. Kunze. No. 1,012,140; Dec. 19; Sp. p. 3928; Gaz. vol. 173; p. 679.
Musical-instrument parts, Mechanism for arranging. P. B. Klugh. No. 1,011,138; Dec. 5; Sp. p. 1620; Gaz. vol. 173; p. 257.
Musical-instrument pedals, Mechanism for disposing and concealing. P. B. Klugh. No. 1,002,282; Sept. 5; Sp. p. 218; Gaz. vol. 170; p. 29.
Musical-instrument players, Note-sheet-feed mechanism for. C. F. Jones. No. 982,277; Jan. 24; Sp. p. 4670; Gaz. vol. 162; p. 807.
Musical instrument, Pneumatic. E. De Kleist. No. 983,374; Feb. 7; Sp. p. 253; Gaz. vol. 163; p. 43.
Musical instrument, Pneumatic shifting device for movable members of an automatic. M. Clark. No. 1,005,771; Oct. 10; Sp. p. 2622; Gaz. vol. 171; p. 452.
Musical-instrument rests, Clamp for. G. D. Laurian. No. 996,652; July 4; Sp. p. 118; Gaz. vol. 168; p. 21.
Musical instrument, Self-playing. P. Wirsching. No. 988,612; Apr. 4; Sp. p. 694; Gaz. vol. 165; p. 111.
Musical instrument, Self-playing. E. C. Hiscock. No. 992,772; May 23; Sp. p. 4148; Gaz. vol. 166; p. 768.
Musical instrument, Self-playing. J. J. Walker. No. 993,479; May 30; Sp. p. 5685; Gaz. vol. 166; p. 1040.
Musical-instrument sheet-adjusting device, Mechanical-. F. G. Lynde. No. 1,008,976; Nov. 14; Sp. p. 3005; Gaz. vol. 172; p. 501.
Musical-instrument string. A. Zollinger. No. 980,472; Jan. 3; Sp. p. 634; Gaz. vol. 162; p. 104.
Musical instrument, Stringed. W. H. De Wick. No. 981,393; Jan. 10; Sp. p. 2778; Gaz. vol. 162; p. 452.
Musical instrument, Stringed. R. A. Wilkins. No. 995,310; June 13; Sp. p. 2601; Gaz. vol. 167; p. 450.
Musical instrument, Stringed. C. B. Rauch. No. 1,001,302; Aug. 22; Sp. p. 4523; Gaz. vol. 169; p. 820.
Musical instrument, Stringed. F. Riga. No. 1,004,905; Oct. 3; Sp. p. 790; Gaz. vol. 171; p. 126.
Musical-instrument supporting-stand and playing mechanism. C. W. Unger, Jr. No. 994,289; June 6; Sp. p. 385; Gaz. vol. 167; p. 66.
Musical instrument, Valved wind. H. C. Martin. No. 1,003,931; Sept. 19; Sp. p. 3809; Gaz. vol. 170; p. 670.
Musical instruments and players, Controlling device for automatic. E. G. Clark. No. 1,005,413; Oct. 10; Sp. p. 1829; Gaz. vol. 171; p. 326.
Musical instruments, Automatic player for. N. G. Meade. No. 1,006,669; Oct. 24; Sp. p. 4654; Gaz. vol. 171; p. 829.
Musical instruments, Automatic playing apparatus for. T. B. Powers and M. R. Jewell. (Reissue.) No. 13,244; May 23; Sp. p. 5356; Gaz. vol. 166; p. 960.
Musical instruments, Bellows for automatic. W. F. Bayer. No. 1,006,426; Oct. 17; Sp. p. 4092; Gaz. vol. 171; p. 713.
Musical instruments, Cabinet for automatic. R. J. Bennett. No. 1,006,526; Oct. 24; Sp. p. 4342; Gaz. vol. 171; p. 778.
Musical instruments, Controller-bellows for pneumatic. J. P. Hulder. No. 991,851; May 9; Sp. p. 2189; Gaz. vol. 166; p. 390.
Musical instruments, Means for synchronously operating. S. S. Waters. No. 1,002,100; Aug. 29; Sp. p. 6185; Gaz. vol. 169; p. 1119.

Musical instruments, Mechanical player for. W. J. Riley. No. 1,001,448; Aug. 22; Sp. p. 4823; Gaz. vol. 169; p. 869.
Musical instruments, Mechanism for regulating the expression in apparatus for playing. E. Welte and K. Bockisch. No. 1,008,291; Nov. 7; Sp. p. 1392; Gaz. vol. 172; p. 226.
Musical instruments, Pneumatic action for. O. Higel. No. 987,575; Mar. 21; Sp. p. 3814; Gaz. vol. 164; p. 679.
Musical instruments, Regulating mechanism for automatic. P. Welin and H. Utterberg. No. 999,281; Aug. 1; Sp. p. 166; Gaz. vol. 169; p. 31.
Musical instruments, Regulator for pneumatically-operated. T. Danquard. No. 1,006,728; Oct. 24; Sp. p. 4759; Gaz. vol. 171; p. 848.
Musical instruments, Sheet-adjusting device for mechanical. J. A. Weser. No. 1,010,552; Dec. 5; Sp. p. 329; Gaz. vol. 173; p. 53.
Musical instruments, Sliding panel for. T. P. Brown. No. 1,006,461; Oct. 24; Sp. p. 4190; Gaz. vol. 171; p. 754.
Musical instruments, Take-up roll for automatic. M. Clark. No. 1,009,829; Nov. 28; Sp. p. 4868; Gaz. vol. 172; p. 879.
Musical instruments, Tempo-indicator for mechanical. G. H. Bent. No. 982,786; Jan. 31; Sp. p. 5725; Gaz. vol. 162; p. 1010.
Musical instruments, Tone-modulator for pneumatically-operated. R. Frömsdorf. No. 1,000,594; Aug. 15; Sp. p. 2977; Gaz. vol. 169; p. 544.
Musical instruments, Tracker-board construction for automatic. M. Clark. No. 1,011,745; Dec. 12; Sp. p. 3030; Gaz. vol. 173; p. 505.
Musical instruments, Valve for pneumatics of mechanical. H. W. Stowe. No. 1,012,744; Dec. 26; Sp. p. 5195; Gaz. vol. 173; p. 930.
Musical instruments, Valve mechanism for pneumatic. P. Welin. No. 990,177; Apr. 18; Sp. p. 4023; Gaz. vol. 165; p. 693.
Musical instruments, Wind and rewind mechanism for mechanical. W. G. Betz. No. 998,743; July 25; Sp. p. 4694; Gaz. vol. 168; p. 849.
Musical notation, Staff and certain key-symbols for. A. M. Stringfield. No. 1,004,215; Sept. 26; Sp. p. 4501; Gaz. vol. 170; p. 796.
Musical sounds, Method of and mechanism for producing. G. Breed. No. 1,007,265; Oct. 31; Sp. p. 5980; Gaz. vol. 171; p. 1091.
Musical tones, Producing. M. L. Severy and G. B. Sinclair. No. 1,009,798; Nov. 28; Sp. p. 4794; Gaz. vol. 172; p. 868.
Musical wind instrument. H. B. Jay. No. 1,003,049; Sept. 12; Sp. p. 1913; Gaz. vol. 170; p. 330.
Mustard appetizer. A. Gorski. No. 1,010,252; Nov. 28; Sp. p. 5707; Gaz. vol. 172; p. 1020.
Mutoscope. B. Smith. No. 988,392; Apr. 4; Sp. p. 227; Gaz. vol. 165; p. 36.
Nail: *See* Fence-nail; Glove-nail; Horseshoe-nail; Wire nail.
Nail. W. E. Frost. No. 1,012,622; Dec. 26; Sp. p. 4934; Gaz. vol. 173; p. 887.
Nail-assorting machine. J. H. Pope. No. 1,005,303; Oct. 10; Sp. p. 1600; Gaz. vol. 171; p. 287.
Nail-box. G. H. Dahlke. No. 987,557; Mar. 21; Sp. p. 3765; Gaz. vol. 164; p. 672.
Nail-clipper. J. A. Browning. No. 994,119; June 6; Sp. p. 34; Gaz. vol. 167; p. 8.
Nail-cutting dies. J. Wikschtröm. No. 990,792; Apr. 25; Sp. p. 5453; Gaz. vol. 165; p. 938.
Nail-driver. M. Dickson. No. 982,801; Jan. 31; Sp. p. 5758; Gaz. vol. 162; p. 1015.
Nail-driving machine. T. Lund. No. 996,656; July 4; Sp. p. 124; Gaz. vol. 168; p. 22.
Nail-extractor. E. Swainson. No. 990,926; May 2; Sp. p. 212; Gaz. vol. 166; p. 37.
Nail-feeding device. A. M. Taylor. No. 987,331; Mar. 21; Sp. p. 3326; Gaz. vol. 164; p. 597.
Nail-feeding mechanism. R. F. McFeely. No. 1,002,421; Sept. 5; Sp. p. 551; Gaz. vol. 170; p. 78.
Nail leather-heading machine. F. and G. B. Knapp. No. 994,008; May 30; Sp. p. 6805; Gaz. vol. 166; p. 1222.
Nail-machine. F. L. Eiler. No. 994,137; June 6; Sp. p. 69; Gaz. vol. 167; p. 14.
Nail-making machine. Wire-. J. Wikschtröm. No. 1,011,545; Dec. 12; Sp. p. 2577; Gaz. vol. 173; p. 436.
Nail-pouch. T. H. Scantlin. No. 992,810; May 23; Sp. p. 4237; Gaz. vol. 166; p. 782.
Nail-puller. G. A. Barnes. No. 1,004,842; Oct. 3; Sp. p. 642; Gaz. vol. 171; p. 104.
Nail-separating mechanism. R. F. McFeely. No. 1,002,422; Sept. 5; Sp. p. 556; Gaz. vol. 170; p. 79.
Nail-set. J. H. Genuit. No. 981,548; Jan. 10; Sp. p. 3097; Gaz. vol. 162; p. 505.
Nail-set. S. H. Angell. No. 983,798; Feb. 7; Sp. p. 1154; Gaz. vol. 163; p. 184.
Nail-set, Flooring. C. B. Weedon. No. 1,002,102; Aug. 29; Sp. p. 6188; Gaz. vol. 169; p. 1119.
Nails, &c., Machine for forming enlarged or extended heads upon. J. B. Davies and H. Bell. No. 1,009,484; Nov. 21; Sp. p. 4160; Gaz. vol. 172; p. 717.
Nailer, Automatic. W. J. Ott. No. 982,854; Jan. 31; Sp. p. 5884; Gaz. vol. 162; p. 1033.
Nailer, Loose. H. H. Cummings. No. 996,065; June 27; Sp. p. 4288; Gaz. vol. 167; p. 778.
Nailing and similar fastening machine. D. J. G. Miller. No. 1,008,608; Nov. 14; Sp. p. 2222; Gaz. vol. 172; p. 379.
Nailing implement. C. F. Crandall. No. 992,547; May 16; Sp. p. 3701; Gaz. vol. 166; p. 662.
Nailing-machine. C. W. Jackson. No. 980,281; Jan. 3; Sp. p. 194; Gaz. vol. 162; p. 38.
Nailing-machine. J. Lee. No. 1,000,023; Aug. 8; Sp. p. 1666; Gaz. vol. 169; p. 313.
Nailing-tool. C. W. Field. No. 1,001,011; Aug. 22; Sp. p. 3925; Gaz. vol. 169; p. 722.
Name-plate. A. S. Eberman and E. Harlan. No. 999,438; Aug. 1; Sp. p. 485; Gaz. vol. 169; p. 85.
Name-register. F. W. Leuthesser. No. 994,848; June 13; Sp. p. 1658; Gaz. vol. 167; p. 297.
Nap-plucking machine. T. Mead, Jr. No. 1,000,616; Aug. 15; Sp. p. 3037; Gaz. vol. 169; p. 552.
Napping-machine. J. Ermbter. No. 990,244; Apr. 25; Sp. p. 4202; Gaz. vol. 165; p. 749.
Napping-machine, Planetary. E. Mundorf. No. 1,002,738; Sept. 5; Sp. p. 1253; Gaz. vol. 170; p. 187.
Napkin-holder. L. H. Robinson. No. 993,408; May 30; Sp. p. 5524; Gaz. vol. 166; p. 1017.
Narcotizing animals and the like, Apparatus for. K. Burgsmüller. No. 993,023; May 23; Sp. p. 4710; Gaz. vol. 166; p. 857.
Navigation, Instrument for use in. O. B. Sanders. No. 988,665; Apr. 4; Sp. p. 805; Gaz. vol. 165; p. 130.
Neck, back, throat, and chest protector. N. Neuman. No. 985,441; Feb. 28; Sp. p. 4745; Gaz, vol. 163; p. 844.
Neckband shaper, Shirt-. A. Paradis. No. 995,170; June 13; Sp. p. 2344; Gaz. vol. 167; p. 405.
Necktie. M. A. Griesemer. No. 982,948; Jan. 31; Sp. p. 6097; Gaz. vol. 162; p. 1065.
Necktie. H. A. Meyers and J. A. Elliott. No. 993,185; May 23; Sp. p. 5044; Gaz. vol. 166; p. 911.
Necktie. C. W. T. Davies. No. 997,045; July 4; Sp. p. 967; Gaz. vol. 168; p. 154.
Necktie. H. R. Winter. No. 1,000,869; Aug. 15; Sp. p. 3562; Gaz. vol. 169; p. 640.
Necktie. I. Lewin. No. 1,004,444; Sept. 26; Sp. p. 4964; Gaz. vol. 170; p. 873.
Necktie. J. L. Hill. No. 1,005,835; Oct. 17; Sp. p. 2772; Gaz. vol. 171; p. 505.
Necktie and collar holder. M. Ecker. No. 1,007,342; Oct. 31; Sp. p. 6133; Gaz. vol. 171; p. 1119.
Necktie attachment. G. L. Stevens. No. 991,177; May 2; Sp. p. 744; Gaz. vol. 166; p. 126.
Necktie-fastener. L. Kretschmer. No. 985,530; Feb. 28; Sp. p. 4956; Gaz. vol. 163; p. 876.
Necktie-fastener. J. C. Beekman. No. 988,966; Apr. 11; Sp. p. 1411; Gaz. vol. 165; p. 250.
Necktie-fastening device. A. E. Halm. No. 980,515; Jan. 3; Sp. p. 746; Gaz. vol. 162; p. 119.
Necktie former and holder. T. H. Noonen. No. 999,845; Aug. 8; Sp. p. 1284; Gaz. vol. 169; p. 250.
Necktie-holder. G. L. Wadsworth. No. 995,741; June 20; Sp. p. 3598; Gaz. vol. 167; p. 631.
Necktie-holder. H. A. Kaeber. No. 1,010,057; Nov. 28; Sp. p. 5332; Gaz. vol. 172; p. 956.
Necktie-make-up device. W. E. Lange. No. 1,010,155; Nov. 28; Sp. p. 5514; Gaz. vol. 172; p. 988.
Necktie-retainer. W. F. Jacobs. No. 981,274; Jan. 10; Sp. p. 2528; Gaz. vol. 162; p. 411.
Necktie-retainer. W. A. Huth. No. 987,367; Mar. 21; Sp. p. 3396; Gaz. vol. 164; p. 609.
Necktie, Retainer-. C. W. T. Davies. No. 984,751; Feb. 21; Sp. p. 3264; Gaz. vol. 163; p. 576.
Necktie-support. F. M. Wadsworth. No. 1,004,830; Oct. 3; Sp. p. 609; Gaz. vol. 171; p. 100.
Neckties, Detachable retainer for. H. E. Hess. No. 1,007,950; Nov. 7; Sp. p. 686; Gaz. vol. 172; p. 106.
Neckwear. H. S. Mosher. No. 988,280; Mar. 28; Sp. p. 5354; Gaz. vol. 164; p. 948.
Neckwear-fastener. W. H. Hart, Jr. No. 984,428; Feb. 14; Sp. p. 2527; Gaz. vol. 163; p. 428.
Needle. J. A. Vogelmann. No. 1,012,768; Dec. 26; Sp. p. 5239; Gaz. vol. 173; p. 938.
Needle-holder. J. E. Tatham. No. 995,305; June 13; Sp. p. 2596; Gaz. vol. 167; p. 449.
Needle-holder, Automatic magazine. M. Graft. No. 989,544; Apr. 11; Sp. p. 2667; Gaz. vol. 165; p. 448.
Needle-package. J. H. Boye. No. 1,004,354; Sept. 26; Sp. p. 4766; Gaz. vol. 170; p. 842.
Needle receptacle, Hypodermic-. G. R. Schimmel. No. 1,007,804; Nov. 7; Sp. p. 352; Gaz. vol. 172; p. 56.
Needle, Splicing-. J. D. Martin. No. 989,378; Apr. 11; Sp. p. 2302; Gaz. vol. 165; p. 390.
Needle-threader. H. Oakleaf. No. 985,624; Feb. 28; Sp. p. 5144; Gaz. vol. 163; p. 909.
Needle-threader. W. J. Rogers. No. 1,008,731; Nov. 14; Sp. p. 2500; Gaz. vol. 172; p. 420.
Needle-threading device. M. Shoenfeld. No. 981,125; Jan. 10; Sp. p. 2172; Gaz. vol. 162; p. 358.

Alphabetical list of inventions—Continued.

Needle, Tuft-yarn. H. Wyman, J. A. Clark, and J. G. Soderberg. No. 1,003,572; Sept. 19; Sp. p. 3034; Gaz. vol. 170; p. 547.
Negotiable instrument. L. M. Todd. No. 980,365; Jan. 3; Sp. p. 375; Gaz. vol. 162; p. 67.
Nest, Automatic trap-. T. H. Lindsey. No. 1,008,043; Nov. 7; Sp. p. 853; Gaz. vol. 172; p. 137.
Nest-box. J. Grierson. No. 997,189; July 4; Sp. p. 1244; Gaz. vol. 168; p. 202.
Nest, Collapsible hen's. T. M. Sharp. No. 990,014; Apr. 18; Sp. p. 3692; Gaz. vol. 165; p. 640.
Nest for fowls, Trap-. G. T. Merritt. No. 990,821; Apr. 25; Sp. p. 5506; Gaz. vol. 165; p. 948.
Nest, Hen's. F. M. Busby. No. 988,443; Apr. 4; Sp. p. 333; Gaz. vol. 165; p. 54.
Nest, Hen's. C. E. Dunlap. No. 1,004,153; Sept. 26; Sp. p. 4375; Gaz. vol. 170; p. 776.
Nest, Hen's. J. W. Anderson. No. 1,010,213; Nov. 28; Sp. p. 5633; Gaz. vol. 172; p. 1008.
Nest, Trap-. W. J. Van Schoonhoven. No. 999,920; Aug. 8; Sp. p. 1459; Gaz. vol. 169; p. 277.
Nest, Trap-. F. H. Sanborn. No. 1,000,950; Aug. 15; Sp. p. 3725; Gaz. vol. 169; p. 667.
Nest, Trap-. S. L. Smith. No. 1,004,702; Oct. 3; Sp. p. 322; Gaz. vol. 171; p. 56.
Net, Landing-. E. A. Covell. No. 985,114; Feb. 21; Sp. p. 3951; Gaz. vol. 163; p. 698.
Net-lifting apparatus. T. Saunders and H. P. Chase. No. 1,002,762; Sept. 5; Sp. p. 1291; Gaz. vol. 170; p. 194.
Net-lifting machine. J. Madlehner. No. 980,650; Jan. 3; Sp. p. 1015; Gaz. vol. 162; p. 165.
Net, Trap-. J. Fritz. No. 996,234; June 27; Sp. p. 4684; Gaz. vol. 167; p. 835.
Nethergarment. C. W. T. Davies. No. 996,005; June 20; Sp. p. 4147; Gaz. vol. 167; p. 722.
Newspaper-holder. W. E. Althouse. No. 999,724; Aug. 8; Sp. p. 1051; Gaz. vol. 169; p. 211.
Newspaper-holder. G. Verges. No. 1,005,376; Oct. 10; Sp. p. 1758; Gaz. vol. 171; p. 313.
Nickel non-pyrophoric and stable, Rendering finely-divided catalytic. E. C. Kayser. No. 1,001,279; Aug. 22; Sp. p. 4466; Gaz. vol. 169; p. 811.
Nicotin. Device for obviating the generation of. J. S. Hunter. No. 980,270; Jan. 3; Sp. p. 169; Gaz. vol. 162; p. 33.
Nicotin extracting and distributing apparatus. K. Boll. No. 1,002,123; Aug. 29; Sp. p. 6228; Gaz. vol. 169; p. 1125.
Nippers. F. Salé. No. 987,173; Mar. 21; Sp. p. 2983; Gaz. vol. 164; p. 542.
Nippers, Cutting-. J. Walsh. No. 990,932; May 2; Sp. p. 223; Gaz. vol. 166; p. 39.
Nipple-cap. A. Stern. No. 1,012,473; Dec. 19; Sp. p. 4604; Gaz. vol. 173; p. 789.
Nipple, Nursing-. W. M. Decker. No. 981,072; Jan. 10; Sp. p. 2060; Gaz. vol. 162; p. 339.
Nipple, Nursing-bottle. G. R. Shepherd. No. 1,004,304; Sept. 26; Sp. p. 4670; Gaz. vol. 170; p. 827.
Nitric oxid from mixtures of nitrogen and oxygen, Process of and apparatus for producing. H. Pauling. No. 991,357; May 2; Sp. p. 1134; Gaz. vol. 166; p. 190.
Nitrites and nitrates, Manufacturing. H. Pauling. No. 991,356; May 2; Sp. p. 1132; Gaz. vol. 166; p. 189.
Nitro bodies in shells, Treating. C. E. Bichel. No. 1,000,663; Aug. 15; Sp. p. 3134; Gaz. vol. 169; p. 568.
Nitro compounds, Manufacturing. G. E. Potts. No. 1,008,615; Nov. 14; Sp. p. 2241; Gaz. vol. 172; p. 381.
Nitrogen and carbon dioxid from gaseous products of combustion, Producing. M. Reichel and H. Braun. No. 984,605; Feb. 21; Sp. p. 2948; Gaz. vol. 163; p. 523.
Nitrogen compounds, Electrolytic process of producing. C. E. Acker. (Reissue.) No. 13,343; Dec. 26; Sp. p. 6004; Gaz. vol. 173; p. 1050.
Nitrogen compounds from carbids, Apparatus for producing. A. R. Frank. No. 1,010,404; Nov. 28; Sp. p. 6039; Gaz. vol. 172; p. 1070.
Nitrogen compounds from carbids, Producing. A. R. Frank. No. 1,006,927; Oct. 24; Sp. p. 5230; Gaz. vol. 171; p. 919.
Nitrogen compounds, Making. A. R. Frank. No. 996,011; June 20; Sp. p. 4163; Gaz. vol. 167; p. 724.
Nitrogen compounds, Preparation of. E. H. Meyer and J. M. A. Stillesen. No. 982,288; Jan. 24; Sp. p. 4692; Gaz. vol. 162; p. 811.
Nitrogen compounds, Producing. A. R. Frank. No. 987,674; Mar. 21; Sp. p. 4041; Gaz. vol. 164; p. 715.
Nitrogen, Electrical oxidation of. C. Ellis. No. 1,002,249; Sept. 5; Sp. p. 142; Gaz. vol. 170; p. 17.
Nitrogen-fixing organisms in agriculture or horticulture, Use of. W. B. Bottomley. No. 982,569; Jan. 24; Sp. p. 5269; Gaz. vol. 162; p. 909.
Nitrogen, Forming oxids of. C. Ellis. No. 1,007,683; Nov. 7; Sp. p. 50; Gaz. vol. 172; p. 11.
Nitrogen from air, Apparatus for obtaining. C. Blagburn. No. 993,017; May 23; Sp. p. 4697; Gaz. vol. 166; p. 855.
Nitrogen, Obtaining. C. E. Acker. No. 999,003; July 25; Sp. p. 5280; Gaz. vol. 168; p. 940.
Nitrogen oxids, Conversions of lower to higher. F. Sparre. No. 1,008,383; Nov. 14; Sp. p. 1671; Gaz. vol. 172; p. 297.
Nitrogen oxids, Manufacturing. O. Bender. No. 1,011,014; Dec. 5; Sp. p. 1341; Gaz. vol. 173; p. 214.
Nitrogen, Preparation of lime. J. M. A. Stillesen. No. 982,311; Jan. 24; Sp. p. 4737; Gaz. vol. 162; p. 819.
Nitrogenous compounds, Making. G. Erlwein and K. Warth. No. 994,095; May 30; Sp. p. 6977; Gaz. vol. 166; p. 1251.
Nitroglycerin compounds into shells, Machine for packing. H. A. Stillwell. No. 983,655; Feb. 7; Sp. p. 860; Gaz. vol. 163; p. 137.
Noise-making device. G. H. Merrick. No. 993,454; May 30; Sp. p. 5632; Gaz. vol. 166; p. 1031.
Non-refillable box. W. D. Hughes. No. 999,454; Aug. 1; Sp. p. 515; Gaz. vol. 169; p. 90.
Non-slipping device. L. A. Zellers. No. 1,001,184; Aug. 22; Sp. p. 4277; Gaz. vol. 169; p. 780.
Noodle-cutting device. A. Gawenda and L. Marko. No. 992,188; May 16; Sp. p. 2875; Gaz. vol. 166; p. 535.
Nose-bag. J. K. Allshouse. No. 983,108; Jan. 31; Sp. p. 6436; Gaz. vol. 162; p. 1118.
Nose-bag support. W. Snyder. No. 1,012,465; Dec. 19; Sp. p. 4593; Gaz. vol. 173; p. 787.
Nose-guard. P. Moews. No. 985,434; Feb. 28; Sp. p. 4733; Gaz. vol. 163; p. 841.
Note-sheet-feed mechanism. J. H. Campbell. No. 987,697; Mar. 28; Sp. p. 4090; Gaz. vol. 164; p. 751.
Note-sheet guide, Perforated-. J. O'Connor. (Reissue.) No. 13,283; Aug. 15; Sp. p. 3794; Gaz. vol. 169; p. 678.
Note-sheets, Adjusting device for perforated. G. B. Kelly. No. 983,288; Feb. 7; Sp. p. 65; Gaz. vol. 163; p. 13.
Note-sheets, Expression-marking for. P. K. Van Yorx. No. 982,648; Jan. 24; Sp. p. 5418; Gaz. vol. 162; p. 935.
Note-sheets, Expression-marking for. P. K. Van Yorx. No. 1,001,566; Aug. 22; Sp. p. 5041; Gaz. vol. 169; p. 909.
Nozzle. F. B. Leopold. No. 980,538; Jan. 3; Sp. p. 789; Gaz. vol. 162; p. 126.
Nozzle. C. M. Symonds. No. 981,326; Jan. 10; Sp. p. 2635; Gaz. vol. 162; p. 429.
Nozzle. M. H. Hart. No. 992,193; May 16; Sp. p. 2884; Gaz. vol. 166; p. 537.
Nozzle. G. A. Anderson. No. 1,002,210; Sept. 5; Sp. p. 1; Gaz. vol. 170; p. 3.
Nozzle. S. L. Berry. No. 1,002,960; Sept. 12; Sp. p. 1743; Gaz. vol. 170; p. 302.
Nozzle. L. R. Nelson. No. 1,006,450; Oct. 17; Sp. p. 4147; Gaz. vol. 171; p. 721.
Nozzle-adjusting device. E. Efran. No. 980,223; Jan. 3; Sp. p. 92; Gaz. vol. 162; p. 18.
Nozzle, Blast-. F. A. Babcock. No. 992,144; May 16; Sp. p. 2782; Gaz. vol. 166; p. 520.
Nozzle, Deflecting-. S. L. Berry. No. 1,009,377; Nov. 21; Sp. p. 3925; Gaz. vol. 172; p. 680.
Nozzle for delivering viscous liquids, as paint-removers. J. M. and J. A. Wilson. No. 990,179; Apr. 18; Sp. p. 4028; Gaz. vol. 165; p. 694.
Nozzle, High-pressure. H. H. Gorter. No. 984,557; Feb. 21; Sp. p. 2843; Gaz. vol. 163; p. 507.
Nozzle-holder. F. W. Freund. No. 1,007,657; Oct. 31; Sp. p. 6823; Gaz. vol. 171; p. 1226.
Nozzle-reinforcing means. H. C. Fritz. No. 987,226; Mar. 21; Sp. p. 3098; Gaz. vol. 164; p. 562.
Nozzle, Rotatable hydraulic. A. McCombie. No. 1,012,398; Dec. 19; Sp. p. 4466; Gaz. vol. 173; p. 765.
Nozzle, Spray-. C. Edgerton. No. 984,082; Feb. 14; Sp. p. 1815; Gaz. vol. 163; p. 312.
Nozzle, Spray-. L. A. Brinkman. No. 985,505; Feb. 28; Sp. p. 4891; Gaz. vol. 163; p. 868.
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Nozzle, Suction-. C. L. Goughnour. No. 993,772; May 30; Sp. p. 6341; Gaz. vol. 166; p. 1143.
Nozzles, Automatic control for hydraulic. G. J. Henry, Jr. No. 993,064; May 23; Sp. p. 4792; Gaz. vol. 166; p. 871.
Numberer, Stub-. W. Flett. No. 990,970; May 2; Sp. p. 304; Gaz. vol. 166; p. 52.
Numbering device. W. Flett. No. 982,263; Jan. 24; Sp. p. 4617; Gaz. vol. 162; p. 801.
Numbering-head. W. H. Smith. No. 986,234; Mar. 7; Sp. p. 1001; Gaz. vol. 164; p. 160.
Numbering-head. F. and C. A. Meisel. No. 989,860; Apr. 18; Sp. p. 3364; Gaz. vol. 165; p. 587.
Numbering-machine. S. Hollingsworth. No. 984,372; Feb. 14; Sp. p. 2423; Gaz. vol. 163; p. 410.
Numbering-machine. W. H. Smith. (Reissue.) No. 13,212; Feb. 21; Sp. p. 3980; Gaz. vol. 163; p. 704.
Numbering machine, Consecutive-. C. Spielman. No. 1,007,314; Oct. 31; Sp. p. 6075; Gaz. vol. 171; p. 1109.
Numbering machine, Multiple-. C. L. Johnston. No. 987,372; Mar. 21; Sp. p. 3405; Gaz. vol. 164; p. 611.
Nurling device. A. B. Campbell. No. 980,197; Jan. 3; Sp. p. 36; Gaz. vol. 162; p. 9.
Nurling-tool. H. Miller, Jr. No. 990,450; Apr. 25; Sp. p. 4682; Gaz. vol. 165; p. 823.
Nursery-chair, Folding. F. A. Mowers. No. 1,005,737; Oct. 10; Sp. p. 2556; Gaz. vol. 171; p. 439.

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Nut and bolt lock. T. P. Beadle. No. 1,011,309; Dec. 12; Sp. p. 2064; Gaz. vol. 173; p. 353.
Nut and flange, Adjustable sleeve-. P. Mueller. No. 999,332; Aug. 1; Sp. p. 265; Gaz. vol. 169; p. 49.
Nut-blanks from stock-bars, Producing. W. L. Ward. No. 998,215; July 18; Sp. p. 3492; Gaz. vol. 168; p. 629.
Nut-blanks, Mechanism for smoothing and polishing the edges of. S. Vanstone. No. 990,687; Apr. 25; Sp. p. 5227; Gaz. vol. 165; p. 902.
Nut-burring machine. W. L. Clouse. No. 989,119; Apr. 11; Sp. p. 1735; Gaz. vol. 165; p. 302.
Nut, Cap-. H. W. Eden. No. 997,118; July 4; Sp. p. 1095; Gaz. vol. 168; p. 178.
Nut-castellating machine. O. A. Smith. No. 1,010,459; Dec. 5; Sp. p. 106; Gaz. vol. 173; p. 22.
Nut-castellating machine, Automatic. E. C. Boerner. No. 998,229; July 18; Sp. p. 3534; Gaz. vol. 168; p. 635.
Nut-castellating machine, Automatic. O. A. Smith. No. 1,010,460; Dec. 5; Sp. p. 111; Gaz. vol. 173; p. 22.
Nut-lock. L. H. Dowell. No. 980,218; Jan. 3; Sp. p. 83; Gaz. vol. 162; p. 16.
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Nut-lock. J. Schuler. No. 982,537; Jan. 24; Sp. p. 5213; Gaz. vol. 162; p. 899.
Nut-lock. T. L. King. No. 982,683; Jan. 24; Sp. p. 5491; Gaz. vol. 162; p. 947.
Nut-lock. R. M. Blakey. No. 982,763; Jan. 24; Sp. p. 5675; Gaz. vol. 162; p. 972.
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Nut-lock. H. A. Corliss. No. 983,540; Feb. 7; Sp. p. 606; Gaz. vol. 163; p. 96.
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Nut-lock. J. Popp and C. Plopa. No. 983,928; Feb. 14; Sp. p. 1474; Gaz. vol. 163; p. 260.
Nut-lock. E. R. Gilbert. No. 984,134; Feb. 14; Sp. p. 1910; Gaz. vol. 163; p. 328.
Nut-lock. A. M. Ponkey. No. 985,059; Feb. 21; Sp. p. 3858; Gaz. vol. 163; p. 681.
Nut-lock. I. L. Miller. No. 985,273; Feb. 28; Sp. p. 4377; Gaz. vol. 163; p. 789.
Nut-lock. W. B. Haensel. No. 985,587; Feb. 28; Sp. p. 5073; Gaz. vol. 163; p. 896.
Nut-lock. F. P. Shannon. No. 985,764; Feb. 28; Sp. p. 5457; Gaz. vol. 163; p. 957.
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Nut-lock. A. Rahn. No. 986,217; Mar. 7; Sp. p. 958; Gaz. vol. 164; p. 155.
Nut-lock. W. A. Whitney. No. 986,255; Mar. 7; Sp. p. 1044; Gaz. vol. 164; p. 168.
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Nut-lock. J. H. Light. No. 986,837; Mar. 14; Sp. p. 2294; Gaz. vol. 164; p. 398.
Nut-lock. E. A. Blanton, Jr. No. 987,106; Mar. 21; Sp. p. 2806; Gaz. vol. 164; p. 517.
Nut-lock. C. H. Boothby. No. 988,688; Apr. 4; Sp. p. 847; Gaz. vol. 165; p. 137.
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Nut-lock. H. Schlomer. No. 990,300; Apr. 25; Sp. p. 4316; Gaz. vol. 165; p. 768.
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Nut-lock. M. L. Shinn and W. H. Kidd. No. 991,379; May 2; Sp. p. 1184; Gaz. vol. 166; p. 197.
Nut-lock. W. J. Mundy. No. 992,136; May 9; Sp. p. 2751; Gaz. vol. 166; p. 487.
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Nut-lock. E. Dunning. No. 992,486; May 16; Sp p. 3568; Gaz. vol. 166; p. 639.
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Nut-lock. L. L. Hines. No. 993,371; May 30; Sp. p. 5456; Gaz. vol. 166; p. 1005.
Nut-lock. G. J. von Hagel. No. 993,918; May 30; Sp. p. 6608; Gaz. vol. 166; p. 1191.
Nut-lock. A. G. Busbea. No. 994,244; June 6; Sp. p. 298; Gaz. vol. 167; p. 51.
Nut-lock. T. F. May. No. 994,528; June 6; Sp. p. 887; Gaz. vol. 167; p. 147.
Nut-lock. C. W. Marshall. No. 994,597; June 6; Sp. p. 1028; Gaz. vol. 167; p. 171.
Nut-lock. M. C. Thomas. No. 994,798; June 13; Sp. p. 1526; Gaz. vol. 167; p. 280.
Nut-lock. D. S. Paterson. No. 995,031; June 13; Sp. p. 2055; Gaz. vol. 167; p. 359.
Nut-lock. A. W. Curry. No. 995,058; June 13; Sp. p. 2123; Gaz. vol. 167; p. 368.
Nut-lock. M. W. Ingraham. No. 995,066; June 13; Sp. p. 2145; Gaz. vol. 167; p. 372.
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Nut-lock. G. F. Murdock. No. 995,169; June 13; Sp. p. 2343; Gaz. vol. 167; p. 405.
Nut-lock. W. F. Kenney. No. 995,468; June 20; Sp. p. 2990; Gaz. vol. 167; p. 534.
Nut-lock. E. B. Anderson. No. 995,760; June 20; Sp. p. 3650; Gaz. vol. 167; p. 637.
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Nut-lock. J. C. Webber. No. 998,217; July 18; Sp. p. 3500; Gaz. vol. 168; p. 630.
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Nut-lock. J. H. Seeton. No. 998,409; July 18; Sp. p. 3955; Gaz. vol. 168; p. 701.
Nut-lock. B. Houghton. No. 998,514; July 18; Sp. p. 4158; Gaz. vol. 168; p. 736.
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Nut-lock. T. G. Palmer. No. 998,797; July 25; Sp. p. 4799; Gaz. vol. 168; p. 867.
Nut-lock. F. O. Jaques, Jr. No. 998,905; July 25; Sp. p. 5055; Gaz. vol. 168; p. 907.
Nut-lock. J. H. Skelton. No. 999,528; Aug. 1; Sp. p. 660; Gaz. vol. 169; p. 114.
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Nut-lock. C. B. Stillwell. No. 999,606; Aug. 1; Sp. p. 807; Gaz. vol. 169; p. 141.
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Nut-lock. C. E. Nielsen. No. 999,842; Aug. 8; Sp. p. 1277; Gaz. vol. 169; p. 249.
Nut-lock. N. White. No. 999,933; Aug. 8; Sp. p. 1482; Gaz. vol. 169; p. 281.
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Nut-lock. H. B. Cox. No. 1,000,994; Aug. 22; Sp. p. 3871; Gaz. vol. 169; p. 716.
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Nut-lock. J. C. Deuchler. No. 1,001,368; Aug. 22; Sp. p. 4678; Gaz. vol. 169; p. 844.
Nut-lock. E. E. Close. No. 1,002,197; Aug. 29; Sp. p. 6387; Gaz. vol. 169; p. 1151.
Nut-lock. W. D. Smith. No. 1,003,379; Sept. 12; Sp. p. 2597; Gaz. vol. 170; p. 447.
Nut-lock. C. Rosser. No. 1,003,804; Sept. 19; Sp. p. 3519; Gaz. vol. 170; p. 626.
Nut-lock. W. P. and S. G. Thomson. No. 1,004,502; Sept. 26; Sp. p. 5076; Gaz. vol. 170; p. 894.
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Nut-lock. H. S. Delamere. No. 1,006,918; Oct. 24; Sp. p. 5214; Gaz. vol. 171; p. 916.
Nut-lock. W. F. Kehoe. No. 1,007,706; Nov. 7; Sp. p. 121; Gaz. vol. 172; p. 19.
Nut-lock. G. W. Seago. No. 1,007,738; Nov. 7; Sp. p. 182; Gaz. vol. 172; p. 31.
Nut-lock. E. P. Davies. No. 1,007,772; Nov. 7; Sp. p. 269; Gaz. vol. 172; p. 43.
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Nut-lock. H. T. Earles. No. 1,008,248; Nov. 7; Sp. p. 1296; Gaz. vol. 172; p. 212.
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Nut-lock. M. L. Shinn and W. H. Kidd. No. 1,009,801; Nov. 28; Sp. p. 4799; Gaz. vol. 172; p. 869.
Nut-lock. C. W. Levalley. No. 1,009,909; Nov. 28; Sp. p. 5011; Gaz. vol. 172; p. 905.
Nut-lock. J. A. Badger. No. 1,010,109; Nov. 28; Sp. p. 5431; Gaz. vol. 172; p. 974.
Nut-lock. L. Wildman. No. 1,010,207; Nov. 28; Sp. p. 5624; Gaz. vol. 172; p. 1006.
Nut-lock. F. O. Jaques, Jr. No. 1,010,264; Nov. 28; Sp. p. 5726; Gaz. vol. 172; p. 1024.
Nut-lock. E. L. Barry. No. 1,010,343; Nov. 28; Sp. p. 5903; Gaz. vol. 172; p. 1051.
Nut-lock. J. N. Back. No. 1,011,711; Dec. 12; Sp. p. 2955; Gaz. vol. 173; p. 494.
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Nut-lock. H. L. Smoke. No. 1,011,871; Dec. 12; Sp. p. 3296; Gaz. vol. 173; p. 548.
Nut, Lock-. W. Jacobus. No. 983,497; Feb. 7; Sp. p. 514; Gaz. vol. 163; p. 82.
Nut, Lock-. A. A. Oilar. No. 985,443; Feb. 28; Sp. p. 4749; Gaz. vol. 163; p. 845.
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Nut, Lock-. C. T. Drake. No. 986,446; Mar. 14; Sp. p. 1460; Gaz. vol. 164; p. 263.
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Nut, Lock-. T. J. Parks. No. 994,688; June 6; Sp. p. 1253; Gaz. vol. 167; p. 203.
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Nut, Lock-. J. G. Wolfe. No. 1,005,678; Oct. 10; Sp. p. 2442; Gaz. vol. 171; p. 419.
Nut, Lock-. P. Moodie. (Reissue.) No. 13,303; Oct. 31; Sp. p. 6836; Gaz. vol. 171; p. 1230.
Nut, Lock-. D. H. Langan. No. 1,010,503; Dec. 5; Sp. p. 241; Gaz. vol. 173; p. 38.
Nut lock, Axle-. W. H. Shuter. No. 1,010,457; Dec. 5; Sp. p. 104; Gaz. vol. 173; p. 21.
Nut-lock, Bond-wire-retaining. W. E. Davin. No. 1,008,959; Nov. 14; Sp. p. 2965; Gaz. vol. 172; p. 495.
Nut-lock. Wagon-skein. F. W. Reisenberg. No. 1,009,858; Nov. 28; Sp. p. 4919; Gaz. vol. 172; p. 889.
Nut, Locked. A. W. Leet. No. 1,012,376; Dec. 19; Sp. p. 4429; Gaz. vol. 173; p. 758.
Nut, Locking-. I. F. Nichols. No. 988,375; Apr. 4; Sp. p. 191; Gaz. vol. 165; p. 31.
Nut-locking device. C. Totten. No. 994,547; June 6; Sp. p. 928; Gaz. vol. 167; p. 154.
Nut-locking device. H. L. Shriver. No. 1,002,185; Aug. 29; Sp. p. 6342; Gaz. vol. 169; p. 1146.
Nut-locking washer. R. W. Ammons. No. 997,359; July 11; Sp. p. 1608; Gaz. vol. 168; p. 291.
Nut-making machine, Hot-pressed-. F. Kelly. No. 1,002,702; Sept. 5; Sp. p. 1146; Gaz. vol. 170; p. 174.
Nut-removing device. W. H. Crilley. No. 999,702; Aug. 1; Sp. p. 991; Gaz. vol. 169; p. 173.
Nut safety-lock, Screw-. F. Sohl. No. 1,011,135; Dec. 5; Sp. p. 1616; Gaz. vol. 173; p. 256.
Nut, Safety wagon-. H. E. Oliver. No. 993,865; May 30; Sp. p. 6517; Gaz. vol. 166; p. 1175.
Nut, Screw-. E. Kener, Jr. No. 990,563; Apr. 25; Sp. p. 4937; Gaz. vol. 165; p. 862.
Nut, Screw locking. A. E. Terry. No. 988,911; Apr. 4; Sp. p. 1298; Gaz. vol. 165; p. 209.
Nut, Sectional. C. C. Kadel. No. 1,001,042; Aug 22; Sp. p. 3991; Gaz. vol. 169; p. 734.
Nut, Self-locking. M. Jacobs. No. 982,502; Jan. 24; Sp. p. 5147; Gaz. vol. 162; p. 887.
Nut, Self-locking. J. Pearson. No. 991,016; May 2; Sp. p. 396; Gaz. vol. 166; p. 68.
Nut-shelling machine. W. A. J. Roach. No. 990,294; Apr. 25; Sp. p. 4297; Gaz. vol. 165; p. 767.
Nut-tapping machine. C. F. Messinger. No. 985,827; Mar. 7; Sp. p. 122; Gaz. vol. 164; p. 24.
Nut-tapping machine. A. E. Taylor. No. 1,012,294; Dec. 19; Sp. p. 4265; Gaz. vol. 173; p. 732.
Nut-threading apparatus. A. H. Bray. No. 999,090; July 25; Sp. p. 5458; Gaz. vol. 168; p. 971.
Nut-wrench. C. C. Guernsey. No. 999,988; Aug. 8; Sp. p. 1591; Gaz. vol. 169; p. 300.
Nuts and the like, Locking device for. J. D. Prince. No. 1,009,340; Nov. 21; Sp. p. 3824; Gaz. vol. 172; p. 666.
Nuts, Bleaching. F. Hayes and T. H. Lambert. No. 995,598; June 20; Sp. p. 3297; Gaz. vol. 167; p. 580.
Nuts, Making flanged. F. A. Neider. No. 990,581; Apr. 25; Sp. p. 4976; Gaz. vol. 165; p. 868.
Nuts to shouldered nipples, Applying coupling-. P. Mueller. No. 998,587; July 18; Sp. p. 4310; Gaz. vol. 168; p. 761.
Nutcracker. A. Konarski. No. 1,003,917; Sept. 19; Sp. p. 3732; Gaz. vol. 170; p. 665.
Nutcracking device. H. C. White. No. 1,004,611; Oct. 3; Sp. p. 138; Gaz. vol. 171; p. 24.
Nutcracking device. K. Chmurowicz. No. 1,005,692; Oct. 10; Sp. p. 2471; Gaz. vol. 171; p. 424.
Nutcracking-machine. C. H. Jacobs. No. 994,591; June 6; Sp. p. 1015; Gaz. vol. 167; p. 169.
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Oar. T. H. Shea. No. 1,003,069; Sept. 12; Sp. p. 1946; Gaz. vol. 170; p. 337.
Oar, Bow-facing. R. Behr. No. 981,361; Jan. 10; Sp. p. 2717; Gaz. vol. 162; p. 441.
Oar-lock. C. F. Aydelott. No. 981,356; Jan. 10; Sp. p. 2711; Gaz. vol. 162; p. 440.
Oar-lock. C. A. Livingston. No. 981,439; Jan. 10; Sp. p. 2897; Gaz. vol. 162; p. 468.
Oar-lock. J. M. Smith. No. 986,774; Mar. 14; Sp. p. 2157; Gaz. vol. 164; p. 376.
Oar-lock. H. E. Carr. No. 997,236; July 4; Sp. p. 1344; Gaz. vol. 168; p. 219.
Oar-lock. W. J. J. Young. No. 998,562; July 18; Sp. p. 4245; Gaz. vol. 168; p. 752.
Oar-lock. F. D. Starin. No. 1,001,475; Aug. 22; Sp. p. 4865; Gaz. vol. 169; p. 878.
Oar-lock. G. B. De Long. No. 1,009,485; Nov. 21; Sp. p. 4169; Gaz. vol. 172; p. 718.
Oar-lock, Folding. J. M. Birtels. No. 998,153; July 18; Sp. p. 3366; Gaz. vol. 168; p. 607.
Obstetrical forceps. C. C. Young. No. 1,006,616; Oct. 24; Sp. p. 4557; Gaz. vol. 171; p. 812.
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Obstretrical operations, Support for. C. M. Brennan. No. 1,011,150; Dec. 12; Sp. p. 1685; Gaz. vol. 173; p. 297.
Octadionols. G. Merling and H. Köhler. No. 991,734; May 9; Sp. p. 1958; Gaz. vol. 166; p. 351.
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Odometer. A. Trowbridge. No. 1,002,011; Aug. 29; Sp. p. 6024; Gaz. vol. 169; p. 1090.
Odometer. C. H. Veeder. No. 1,002,015; Aug. 29; Sp. p. 6031; Gaz. vol. 169; p. 1091.
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Odometer. K. Littlejohn. No. 1,003,623; Sept. 19; Sp. p. 3134; Gaz. vol. 170; p. 565.
Odometer. J. W. Jones. No. 1,005,845; Oct. 17; Sp. p. 2789; Gaz. vol. 171; p. 508.
Odometer-train plate. J. K. Stewart. No. 996,294; June 27; Sp. p. 4820; Gaz. vol. 167; p. 854.
Odontometer. G. E. Siverling. No. 984,040; Feb. 14; Sp. p. 1722; Gaz. vol. 163; p. 296.
Office and door indicator. L. E. Webster. No. 995,746; June 20; Sp. p. 3603; Gaz. vol. 167; p. 633.
Oil and compound thereof. W. N. Blakeman, Jr. No. 989,225; Apr. 11; Sp. p. 1963; Gaz. vol. 165; p. 338.
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Oil and gas burner. R. L. Frink. No. 982,584; Jan. 24; Sp. p. 5302; Gaz. vol. 162; p. 914.
Oil and pigment. E. W. Enequist. No. 1,009,708; Nov. 21; Sp. p. 4582; Gaz. vol. 172; p. 790.
Oil and sand separator. L. W. Brown. No. 990,800; Apr. 25; Sp. p. 5466; Gaz. vol. 165; p. 941.
Oil, Apparatus for feeding. W. Kelly. No. 982,730; Jan. 24; Sp. p. 5589; Gaz. vol. 162; p. 962.
Oil-burner. H. J. Hennings. No. 981,083; Jan. 10; Sp. p. 2078; Gaz. vol. 162; p. 343.
Oil-burner. H. N. Kellar. No. 982,141; Jan. 17; Sp. p. 4366; Gaz. vol. 162; p. 730.
Oil-burner. C. W. Wright. No. 982,167; Jan. 17; Sp. p. 4407; Gaz. vol. 162; p. 738.
Oil-burner. H. L. Albee. No. 982,655; Jan. 24; Sp. p. 5433; Gaz. vol. 162; p. 938.
Oil-burner. W. S. Dowell. No. 983,484; Feb. 7; Sp. p. 490; Gaz. vol. 163; p. 78.
Oil-burner. A. Klein. No. 986,067; Mar. 7; Sp. p. 669; Gaz. vol. 164; p. 107.
Oil-burner. E. L. Kendall. No. 988,111; Mar. 28; Sp. p. 5030; Gaz. vol. 164; p. 892.
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Oil-burner. G. Pontbriand. No. 990,164; Apr. 18; Sp. p. 3992; Gaz. vol. 165; p. 689.
Oil-burner. L. Duncan. No. 990,347; Apr. 25; Sp. p. 4435; Gaz. vol. 165; p. 785.
Oil-burner. A. J. Blackford. No. 990,698; Apr. 25; Sp. p. 5251; Gaz. vol. 165; p. 906.
Oil-burner. A. Klein. No. 990,988; May 2; Sp. p. 340; Gaz. vol. 166; p. 58.
Oil-burner. J. M. Bell. No. 991,935; May 9; Sp. p. 2363; Gaz. vol. 166; p. 419.
Oil-burner. J. G. Hilton. No. 992,129; May 9; Sp. p. 2735; Gaz. vol. 166; p. 484.
Oil-burner. W. H. Kelly and S. B. Tainter. No. 992,924; May 23; Sp. p. 4491; Gaz. vol. 166; p. 823.
Oil-burner. S. J. Watts, D. C. Jones, and W. C. Barton. No. 993,319; May 23; Sp. p. 5312; Gaz. vol. 166; p. 953.
Oil-burner. J. H. Pickens and A. M. Shepard. No. 995,088; June 13; Sp. p. 2185; Gaz. vol. 167; p. 379.
Oil-burner. G. M. Adams. No. 996,824; July 4; Sp. p. 460; Gaz. vol. 168; p. 76.
Oil-burner. V. H. and J. H. T. Mills. No. 997,574; July 11; Sp. p. 2024; Gaz. vol. 168; p. 361.
Oil-burner. M. A. Fesler. No. 997,981; July 18; Sp. p. 2976; Gaz. vol. 168; p. 546.
Oil-burner. F. A. Curtis. No. 999,301; Aug. 1; Sp. p. 207; Gaz. vol. 169; p. 39.
Oil-burner. F. Hendricks. No. 1,001,143; Aug. 22; Sp. p. 4200; Gaz. vol. 169; p. 768.
Oil-burner. H. W. Mason and W. J. Donnelly. No. 1,002,594; Sept. 5; Sp. p. 920; Gaz. vol. 170; p. 137.
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Oil-burner. G. W. Busch. No. 1,003,700; Sept. 19; Sp. p. 3309; Gaz. vol. 170; p. 592.
Oil-burner. W. Laizure. No. 1,004,040; Sept. 26; Sp. p. 4089; Gaz. vol. 170; p. 735.
Oil-burner. W. D. Dawson. No. 1,004,384; Sept. 26; Sp. p. 4835; Gaz. vol. 170; p. 853.
Oil-burner. A. F. Smardon. No. 1,004,824; Oct. 3; Sp. p. 587; Gaz. vol. 171; p. 97.
Oil-burner. W. S. Essex. No. 1,005,821; Oct. 17; Sp. p. 2737; Gaz. vol. 171; p. 500.
Oil-burner. J. E. Kresky. No. 1,006,853; Oct. 24; Sp. p. 5070; Gaz. vol. 171; p. 893.
Oil-burner. W. F. Pocock. No. 1,008,060; Nov. 7; Sp. p. 891; Gaz. vol. 172; p. 143.
Oil-burner. R. D. Mains. No. 1,008,347; Nov. 14; Sp. p. 1556; Gaz. vol. 172; p. 284.
Oil-burner. W. M. and R. W. Burns. No. 1,008,783; Nov. 14; Sp. p. 2613; Gaz. vol. 172; p. 439.
Oil-burner. C. Marchese and F. C. Toscano. No. 1,008,843; Nov. 14; Sp. p. 2728; Gaz. vol. 172; p. 459.
Oil-burner. E. N. Shaw. No. 1,008,866; Nov. 14; Sp. p. 2767; Gaz. vol. 172; p. 466.
Oil-burner. S. T. Johnson. No. 1,009,525; Nov. 21; Sp. p. 4248; Gaz. vol. 172; p. 732.
Oil-burner. J. H. Herriff. No. 1,009,746; Nov. 28; Sp. p. 4686; Gaz. vol. 172; p. 850.
Oil-burner. J. S. Ransome and J. E. McNeely. No. 1,012,436; Dec. 19; Sp. p. 4541; Gaz. vol. 173; p. 777.
Oil burner, Black-. J. W. Elder. No. 987,617; Mar. 21; Sp. p. 3892; Gaz. vol. 164; p. 693.
Oil burner, Coal-. O. Stanley. No. 1,000,956; Aug. 15; Sp. p. 3734; Gaz. vol. 169; p. 669.
Oil burner, Coal-. H. F. Neslage. No. 1,002,300; Sept. 5; Sp. p. 260; Gaz. vol. 170; p. 35.
Oil burner, Crude-. C. Risley. No. 980,838; Jan. 3; Sp. p. 1410; Gaz. vol. 162; p. 226.
Oil burner, Crude-. J. A. Scott, J. F. Grubbs, and J. E. Goss. No. 981,801; Jan. 17; Sp. p. 3608; Gaz. vol. 162; p. 613.
Oil burner, Crude-. C. W. McCoy. No. 993,537; May 30; Sp. p. 5810; Gaz. vol. 166; p. 1061.
Oil burner, Crude-. J. C. F. Woodworth. No. 995,511; June 20; Sp. p. 3084; Gaz. vol. 167; p. 549.
Oil burner, Crude-. R. Reed. No. 999,338; Aug. 1; Sp. p. 278; Gaz. vol. 169; p. 51.
Oil burner, Crude-. W. B. Johnston. No. 1,004,573; Oct. 3; Sp. p. 54; Gaz. vol. 171; p. 11.
Oil-burner deflector. L. C. Curtis. No. 1,003,989; Sept. 26; Sp. p. 3961; Gaz. vol. 170; p. 717.
Oil-burner for lamps. C. C. Briand. No. 1,008,691; Nov. 14; Sp. p. 2405; Gaz. vol. 172; p. 406.
Oil-burner, Gas-generating. J. Ryckman and J. D. Vivian. No. 993,412; May 30; Sp. p. 5537; Gaz. vol. 166; p. 1018.
Oil burner, Hydrocarbon-. F. Wissinger and W. E. Wilkinson. No. 989,745; Apr. 18; Sp. p. 3117; Gaz. vol. 165; p. 547.
Oil burner, Hydrocarbon-. C. W. Brewbaker and G. R. Shanklin. No. 990,331; Apr. 25; Sp. p. 4403; Gaz. vol. 165; p. 779.
Oil burner, Hydrocarbon-. C. W. Brewbaker and G. R. Shanklin. No. 1,011,881; Dec. 12; Sp. p. 3322; Gaz. vol. 173; p. 552.
Oil-burner stand. R. G. Kirkwood. No. 1,001,863; Aug. 29; Sp. p. 5693; Gaz. vol. 169; p. 1042.
Oil-burner tank. L. Alverson. No. 992,102; May 9; Sp. p. 2666; Gaz. vol. 166; p. 475.
Oil-burner tip. C. Böhme. No. 1,007,325; Oct. 31; Sp. p. 6106; Gaz. vol. 171; p. 1112.
Oil-burner, Wick blue-flame. A. J. Blackford. No. 997,037; July 4; Sp. p. 950; Gaz. vol. 168; p. 151.
Oil-burning apparatus. P. J. Ringler. No. 1,012,160; Dec. 19; Sp. p. 3972; Gaz. vol. 173; p. 686.
Oil-burning plants, System of regulation for. J. R. Atchison and C. R. Weymouth. (Reissue.) No. 13,337; Dec. 12; Sp. p. 3355; Gaz. vol. 173; p. 557.
Oil-cake press. B. Granger. No. 985,583; Feb. 28; Sp. p. 5064; Gaz. vol. 163; p. 895.
Oil-can. G. L. Neiburg. No. 981,674; Jan. 17; Sp. p. 3345; Gaz. vol. 162; p. 568.
Oil-can. M. T. and W. C. Axelton. No. 982,114; Jan. 17; Sp. p. 4321; Gaz. vol. 162; p. 721.
Oil-can. E. B. Rose. No. 985,066; Feb. 21; Sp. p. 3869; Gaz. vol. 163; p. 683.
Oil-can. E. H. Noble. No. 986,080; Mar. 7; Sp. p. 694; Gaz. vol. 164; p. 111.
Oil-can. I. H. Kinch. No. 986,722; Mar. 14; Sp. p. 2044; Gaz. vol. 164; p. 358.
Oil-can. J. T. Smallwood. No. 989,435; Apr. 11; Sp. p. 2422; Gaz. vol. 165; p. 409.
Oil-can. A. I. Johnson. No. 1,002,995; Sept. 12; Sp. p. 1809; Gaz. vol. 170; p. 313.
Oil-can. J. S. Pfremmer. No. 1,006,004; Oct. 17; Sp. p. 3143; Gaz. vol. 171; p. 565.
Oil-can. C. F. Fulford. No. 1,006,078; Oct. 17; Sp. p. 3300; Gaz. vol. 171; p. 589.
Oil-can. B. F. Du Pont and J. J. Daly. No. 1,006,923; Oct. 24; Sp. p. 5223; Gaz. vol. 171; p. 918.
Oil-can. J. F. Lokowich. No. 1,009,536; Nov. 21; Sp. p. 4267; Gaz. vol. 172; p. 735.
Oil-can, Non-explosive. J. J. Long. No. 987,583; Mar. 21; Sp. p. 3830; Gaz. vol. 164; p. 683.
Oil-circulatory system or apparatus. P. Daimler. No. 1,012,332; Dec. 19; Sp. p. 4345; Gaz. vol. 173; p. 744.
Oil compound, Paint-. E. C. Gatlin. No. 1,011,611; Dec. 12; Sp. p. 2761; Gaz. vol. 173; p. 462.
Oil, Concrete and stucco paint. C. Ellis. No. 1,005,818; Oct. 17; Sp. p. 2726; Gaz. vol. 171; p. 499.
Oil-container, Non-explosive. R. L. Ziller. No. 1,011,395; Dec. 12; Sp. p. 2237; Gaz. vol. 173; p. 382.
Oil-containing medicine, Solid. O. B. May. No. 1,000,423; Aug. 15; Sp. p. 2586; Gaz. vol. 169; p. 481.
Oil-cup. O. A. Graham. No. 1,001,389; Aug. 22; Sp. p. 4718; Gaz. vol. 169; p. 851.
Oil-cup attachment. J. Holdsworth. No. 1,000,810; Aug. 15; Sp. p. 3442; Gaz. vol. 169; p. 619.
Oil-cup, Automatic. R. K. Feamster. No. 990,245; Apr. 25; Sp. p. 4202; Gaz. vol. 165; p. 749.
Oil-elevator. E. H. Hawley. No. 1,007,282; Oct. 31; Sp. p. 6015; Gaz. vol. 171; p. 1097.
Oil-engine. H. B. Leech. No. 987,246; Mar. 21; Sp. p. 3142; Gaz. vol. 164; p. 569.
Oil-extracting apparatus. C. Turner and R. F. Schroeder. No. 985,863; Mar. 7; Sp. p. 217; Gaz. vol. 164; p. 36.
Oil-fed furnace. A. H. Light. No. 980,806; Jan. 3; Sp. p. 1342; Gaz. vol. 162; p. 215.
Oil-feed for die-stocks, Automatic. H. and T. Heer. No. 998,338; July 18; Sp. p. 3804; Gaz. vol. 168; p. 676.
Oil from oleaginous material, Apparatus for extracting. J. E. Mills. No. 1,005,733; Oct. 10; Sp. p. 2546; Gaz. vol. 171; p. 438.
Oil-furnace. C. J. L. King. No. 990,565; Apr. 25; Sp. p. 4940; Gaz. vol. 165; p. 863.
Oil-gas burner. J. P. Hollenbeck. No. 1,003,109; Sept. 12; Sp. p. 2046; Gaz. vol. 170; p. 352.
Oil-gun. J. Dickens. No. 982,661; Jan. 24; Sp. p. 5449; Gaz. vol. 162; p. 940.
Oil, Miscible. C. Ellis. No. 993,827; May 30; Sp. p. 6455; Gaz. vol. 166; p. 1162.
Oil-press. J. D. Belanger. No. 981,970; Jan. 17; Sp. p. 4031; Gaz. vol. 162; p. 673.
Oil-press, Continuous. F. A. Blain and C. D. Helm. No. 1,007,519; Oct. 31; Sp. p. 6524; Gaz. vol. 171; p. 1180.
Oil, Purifying. W. J. Travers. No. 1,004,219; Sept. 26; Sp. p. 4509; Gaz. vol. 170; p. 798.
Oil, Refining. H. G. Burrows. No. 998,837; July 25; Sp. p. 4895; Gaz. vol. 168; p. 881.
Oil, Refining crude cotton-seed. J. C. Chisholm. No. 1,007,642; Oct. 31; Sp. p. 6790; Gaz. vol. 171; p. 1221.
Oil, Refining crude cotton-seed. J. C. Chisholm. No. 1,010,017; Nov. 28; Sp. p. 5254; Gaz. vol. 172; p. 941.
Oil-register. J. M. Jackson and H. Hunt. No. 996,646; July 4; Sp. p. 108; Gaz. vol. 168; p. 19.
Oil regulator, Fuel-. E. M. Jones. No. 990,744; Apr. 25; Sp. p. 5343; Gaz. vol. 165; p. 922.
Oil-saver. C. F. Rigby. No. 983,314; Feb. 7; Sp. p. 121; Gaz. vol. 163; p. 22.
Oil-seeds in open presses, Pressing. A. Austerlitz. No. 992,534; May 16; Sp. p. 3666; Gaz. vol. 166; p. 657.
Oil separator and purifier. H. Ten Winkel. No. 985,961; Mar. 7; Sp. p. 433; Gaz. vol. 164; p. 70.
Oil, Solidified. C. Ellis. No. 1,006,736; Oct. 24; Sp. p. 4784; Gaz. vol. 171; p. 851.
Oil-switch. S. B. Condit, Jr. No. 982,253; Jan. 24; Sp. p. 4591; Gaz. vol. 162; p. 798.
Oil-switch. H. W. Cheney. No. 988,245; Mar. 28; Sp. p. 5275; Gaz. vol. 164; p. 936.

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Oil-switch. C. D. Haskins. No. 995,000; June 13; Sp. p. 1997; Gaz. vol. 167; p. 349.
Oil-switch. J. M. Wallace. No. 1,001,716; Aug. 29; Sp. p. 5373; Gaz. vol. 169; p. 991.
Oil-switch. H. W. Cheney. No. 1,007,771; Nov. 7; Sp. p. 263; Gaz. vol. 172; p. 43.
Oil-switch. J. F. Menningen. No. 1,010,937; Dec. 5; Sp. p. 1196; Gaz. vol. 173; p. 188.
Oil-tank. J. G. Orth and W. Weston. No. 994,333; June 6; Sp. p. 472; Gaz. vol. 167; p. 81.
Oil-tank. J. B. Price. No. 998,261; July 18; Sp. p. 3602; Gaz. vol. 168; p. 646.
Oil-transporting apparatus. E. N. Mills. No. 1,008,980; Nov. 14; Sp. p. 3010; Gaz. vol. 172; p. 502.
Oil-transporting means. E. N. Mills. No. 1,007,788; Nov. 7; Sp. p. 315; Gaz. vol. 172; p. 49.
Oil vaporizer and burner, Crude-. J. G. Clark. No. 1,006,534; Oct. 24; Sp. p. 4363; Gaz. vol. 171; p. 781.
Oils and fats, Extraction of. W. S. Simpson. No. 1,012,572; Dec. 19; Sp. p. 4819; Gaz. vol. 173; p. 827.
Oils, Apparatus for separating water from. J. B. Davis. No. 995,402; June 13; Sp. p. 2834; Gaz. vol. 167; p. 482.
Oils, Apparatus for treating hydrocarbon. D. T. Day. No. 1,004,632; Oct. 3; Sp. p. 179; Gaz. vol. 171; p. 31.
Oils, fats, tar, asphalt, &c., Manufacturing watery solutions of. L. S. Van Westrum. No. 992,313; May 16; Sp. p. 3192; Gaz. vol. 166; p. 580.
Oils from citrus fruits, Machine for extracting essential. W. A. D. Allport and T. J. W. C. Davenport. No. 1,002,020; Aug. 29; Sp. p. 6041; Gaz. vol. 169; p. 1093.
Oils from solids, Extracting. C. Turner and R. F. Schroeder. No. 985,862; Mar. 7; Sp. p. 214; Gaz. vol. 164; p. 35.
Oils, Treating. W. P. Bending. No. 998,670; July 25; Sp. p. 4511; Gaz. vol. 168; p. 823.
Oiler. J. H. Bunker. No. 987,283; Mar. 21; Sp. p. 3225; Gaz. vol. 164; p. 582.
Oiler and bracket, Drill and tool. G. M. Hoerner. No. 1,001,270; Aug. 22; Sp. p. 4449; Gaz. vol. 169; p. 808.
Oiler and waxer, Floor. A. McCauley. No. 981,581; Jan. 10; Sp. p. 3163; Gaz. vol. 162; p. 515.
Oiler, Automatic. R. F. Adams. No. 981,737; Jan. 17; Sp. p. 3483; Gaz. vol. 162; p. 590.
Oiler, Automatic flange-. W. A. Noble. No. 981,597; Jan. 10; Sp. p. 3193; Gaz. vol. 162; p. 521.
Oiler, Automatic flange-. J. L. Williams. No. 995,645; June 20; Sp. p. 3392; Gaz. vol. 167; p. 598.
Oiler, Automatic flange-. W. Litsey. No. 1,001,155; Aug. 22; Sp. p. 4218; Gaz. vol. 169; p. 771.
Oiler, Automatic tool-. C. H. Shaw. No. 1,006,300; Oct. 17; Sp. p. 3822; Gaz. vol. 171; p. 669.
Oiler, Axle-box and wheel. J. J. Gilroy. No. 982,715; Jan. 24; Sp. p. 5561; Gaz. vol. 162; p. 957.
Oiler, Car-journal. E. P. Bergman. No. 994,565; June 6; Sp. p. 968; Gaz. vol. 167; p. 160.
Oiler, Die-stock. M. E. Johnson. No. 981,567; Jan. 10; Sp. p. 3137; Gaz. vol. 162; p. 511.
Oiler, Disk. E. C. Shaw. No. 1,000,349; Aug. 8; Sp. p. 2403; Gaz. vol. 169; p. 423.
Oiler for pressure-fluid tools. L. C. Bayles. No. 989,558; Apr. 18; Sp. p. 2717; Gaz. vol. 165; p. 484.
Oiler for shafts. I. W. Doeg. No. 1,001,127; Aug. 22; Sp. p. 4175; Gaz. vol. 169; p. 763.
Oiler, Road-. W. S. French. No. 1,001,014; Aug. 22; Sp. p. 3933; Gaz. vol. 169; p. 723.
Oiler, Track-. T. F. Kelly. No. 989,265; Apr. 11; Sp. p. 2063; Gaz. vol. 165; p. 352.
Oiler, Wheel-flange. T. Carrick and W. A. Baisley. No. 988,545; Apr. 4; Sp. p. 541; Gaz. vol. 165; p. 87.
Oiling apparatus, Windmill-. G. A. Denis. No. 1,001,255; Aug. 22; Sp. p. 4418; Gaz. vol. 169; p. 803.
Oiling arbor for shell-rollers, Self-. Y. L. Yon. No. 985,649; Feb. 28; Sp. p. 5185; Gaz. vol. 163; p. 917.
Oiling-can. C. E. Black. No. 1,002,631; Sept. 5; Sp. p. 1009; Gaz. vol. 170; p. 150.
Oiling device. G. W. Cook, Jr. No. 988,080; Mar. 28; Sp. p. 4978; Gaz. vol. 164; p. 882.
Oiling device. D. F. Hervey. No. 995,675; June 20; Sp. p. 3451; Gaz. vol. 167; p. 608.
Oiling device. W. L. Morris. No. 997,315; July 11; Sp. p. 1518; Gaz. vol. 168; p. 276.
Oiling device for cross-heads, Automatic. W. C. Schueler. No. 1,000,554; Aug. 15; Sp. p. 2876; Gaz. vol. 169; p. 528.
Oiling device for pumps. R. M. Downie. No. 991,281; May 2; Sp. p. 974; Gaz. vol. 166; p. 164.
Oiling device for push-rods of automobile-engines, Automatic. A. C. Danver. No. 1,000,722; Aug. 15; Sp. p. 3251; Gaz. vol. 169; p. 588.
Oiling device, Hard-oil or hard-grease. D. F. Hervey. No. 998,899; July 25; Sp. p. 5036; Gaz. vol. 168; p. 904.
Oiling device in combination with glass-working machine. C. E. Fogle. No. 988,636; Apr. 4; Sp. p. 749; Gaz. vol. 165; p. 119.
Oiling device, Track-. D. F. Robinson. No. 996,367; June 27; Sp. p. 5002; Gaz. vol. 167; p. 881.
Oiling device, Wheel-spindle-. G. Williams. No. 995,208; June 13; Sp. p. 2400; Gaz. vol. 167; p. 416.
Oiling fellies, Device for. J. W. Price. No. 981,794; Jan. 17; Sp. p. 3596; Gaz. vol. 162; p. 610.

Olefins, Producing double. F. Hofmann and L. Tank. No. 1,010,050; Nov. 28; Sp. p. 5316; Gaz. vol. 172; p. 953.
Oleum, Making. I. J. Cox. No. 1,002,824; Sept. 12; Sp. p. 1425; Gaz. vol. 170; p. 254.
1-para-dimethylaminophenyl-2. 3. 4-trimethyl-5-pyrazolone and making same. F. Stolz and G. Korndörfer. No. 990,310; Apr. 25; Sp. p. 4358; Gaz. vol. 165; p. 772.
Opera and like chair. J. A. Wilkinson. No. 1,010,557; Dec. 5; Sp. p. 342; Gaz. vol. 173; p. 55.
Opera-chair. A. Wanner, Jr. No. 981,232; Jan. 10; Sp. p. 2445; Gaz. vol. 162; p. 396.
Opera-chair. A. Wanner, Jr. No. 981,338; Jan. 10; Sp. p. 2667; Gaz. vol. 162; p. 433.
Opera-chair and means of operating the same. E. J. Shutt. No. 988,515; Apr. 4; Sp. p. 477; Gaz. vol. 165; p. 77.
Operating and reversing mechanism. B. D. Tillinghast and H. B. Porterfield. No. 991,809; May 9; Sp. p. 2102; Gaz. vol. 166; p. 376.
Operating-knife. E. Kratz. No. 990,882; May 2; Sp. p. 120; Gaz. vol. 166; p. 22.
Operating mechanism. L. E. Dietz. No. 999,758; Aug. 8; Sp. p. 1121; Gaz. vol. 169; p. 222.
Operating-table. M. R. McBurney. No. 1,012,883; Dec. 26; Sp. p. 5539; Gaz. vol. 173; p. 977.
Operating-table for use of physicians and surgeons. B. D. Thorner. No. 987,189; Mar. 21; Sp. p. 3022; Gaz. vol. 164; p. 548.
Operating-table, Osteopath's electric. C. W. Hotchkiss. No. 993,447; May 30; Sp. p. 5611; Gaz. vol. 166; p. 1029.
Ophthalmometer. F. Buchhop. No. 1,006,825; Oct. 24; Sp. p. 4999; Gaz. vol. 171; p. 884.
Ophthalmometer and certain other sight-testing instruments. E. and C. S. Gowlland. No. 980,896; Jan. 3; Sp. p. 1562; Gaz. vol. 162; p. 247.
Optical combination. O. Eppenstein. No. 993,667; May 30; Sp. p. 6109; Gaz. vol. 166; p. 1106.
Optical illusion device. J. A. Ingram. No. 988,784; Apr. 4; Sp. p. 1060; Gaz. vol. 165; p. 169.
Optical instrument. E. J. Brown. No. 987,951; Mar. 28; Sp. p. 4692; Gaz. vol. 164; p. 839.
Optical-instrument attachment. L. Abraham. No. 991,591; May 9; Sp. p. 1651; Gaz. vol. 166; p. 303.
Optical instrument, Supplementary. M. von Rohr. No. 983,569; Feb. 7; Sp. p. 690; Gaz. vol. 163; p. 107.
Optical instruments, Attaching device for. H. Jacob and E. Bernick. No. 1,001,958; Aug. 29; Sp. p. 5924; Gaz. vol. 169; p. 1073.
Optical reversing system. C. Möller. No. 986,642; Mar. 14; Sp. p. 1887; Gaz. vol. 164; p. 333.
Optical square. O. Eppenstein. No. 995,235; June 13; Sp. p. 2463; Gaz. vol. 167; p. 426.
Optical test instrument. H. E. MacLaughlin. No. 994,082; May 30; Sp. p. 6955; Gaz. vol. 166; p. 1247.
Optical testing appliance. R. Straubel. No. 994,962; June 13; Sp. p. 1914; Gaz. vol. 167; p. 337.
Opticians, Fitting-stand for. J. Friedlander. No. 986,972; Mar. 14; Sp. p. 2557; Gaz. vol. 164; p. 442.
Orchard-heater. H. P. Holt. No. 985,743; Feb. 28; Sp. p. 5415; Gaz. vol. 163; p. 949.
Orchard-heater. T. H. Stewart. No. 1,008,997; Nov. 14; Sp. p. 3052; Gaz. vol. 172; p. 507.
Orchard-heater. P. H. Troutman. No. 1,009,027; Nov. 14; Sp. p. 3121; Gaz. vol. 172; p. 519.
Orchard-heater. C. D. Shaeffer. No. 1,010,323; Nov. 28; Sp. p. 5857; Gaz. vol. 172; p. 1043.
Orchard-heater. W. H. Smith. No. 1,010,461; Dec. 5; Sp. p. 124; Gaz. vol. 173; p. 23.
Orchard-heaters, Automatic electric igniter for. T. Chapman. No. 983,979; Feb. 14; Sp. p. 1584; Gaz. vol. 163; p. 276.
Orchard-heating apparatus. W. H. Underwood. No. 994,223; June 6; Sp. p. 254; Gaz. vol. 167; p. 43.
Orchard-heating device. F. Stapp. No. 981,025; Jan. 10; Sp. p. 1955; Gaz. vol. 162; p. 322.
Orchestral transposition-chart. M. Verdier. No. 996,542; June 27; Sp. p. 5369; Gaz. vol. 167; p. 939.
Order sheet and book. H. Bucklin. No. 994,372; June 6; Sp. p. 568; Gaz. vol. 167; p. 97.
Ordnance. W. D. Smith. No. 1,007,743; Nov. 7; Sp. p. 200; Gaz. vol. 172; p. 32.
Ordnance. W. D. Smith. No. 1,007,744; Nov. 7; Sp. p. 204; Gaz. vol. 172; p. 33.
Ordnance. W. D. Smith. No. 1,007,808; Nov. 7; Sp. p 359; Gaz. vol. 172; p. 57.
Ordnance. W. D. Smith. No. 1,007,809; Nov. 7; Sp. p 363; Gaz. vol. 172; p. 57.
Ordnance A-tube or liner. H. Maxim. No. 981,095; Jan. 10; Sp. p. 2096; Gaz. vol. 162; p. 346
Ordnance firing-gear. A. T. Dawson and G. T. Buckham. No. 994,982; June 13; Sp. p. 1957; Gaz. vol. 167; p. 343.
Ordnance firing-gear. A. T. Dawson and G. T. Buckham. No. 994,983; June 13; Sp. p. 1961; Gaz. vol. 167; p. 343.
Ordnance, Firing-gear of breech-loading. A. T. Dawson and G. T. Buckham. No. 997,375; July 11; Sp. p. 1634; Gaz. vol. 168; p. 296.
Ordnance, Gas-exploded. E. H. Hamilton. No. 993,983; May 30; Sp. p. 6741; Gaz. vol. 166; p. 1213.

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Ordnance, Minimizing erosion in and preventing flare-back in. H. Maxim. No. 1,005,052; Oct. 3; Sp. p. 1049; Gaz. vol. 171; p. 175.
Ordnance, Recoil-brake for. K. Völler. No. 1,004,116; Sept. 26; Sp. p. 4284; Gaz. vol. 170; p. 762.
Ore and coal jig. E. A. Wall. No. 993,481; May 30; Sp. p. 5691; Gaz. vol. 166; p. 1041.
Ore and rock crushers, Crushing-head for. H. A. Hunt. No. 1,009,520; Nov. 21; Sp. p. 4238; Gaz. vol. 172; p. 730.
Ore-assaying apparatus. B. F. Gardner. No. 1,009,660; Nov. 21; Sp. p. 4490; Gaz. vol. 172; p. 773.
Ore-classifier. J. P. Ginivin. No. 980,244; Jan. 3; Sp. p. 128; Gaz. vol. 162; p. 25.
Ore-classifer. F. G. Janney. No. 984,222; Feb. 14; Sp. p. 2111; Gaz. vol. 163; p. 358.
Ore-classifier. J. V. Dorr. No. 996,624; July 4; Sp. p. 62; Gaz. vol. 168; p. 12.
Ore-classifier, Hydraulic. J. N. Flood. No. 982,583; Jan. 24; Sp. p. 5300; Gaz. vol. 162; p. 914.
Ore concentrating and separating apparatus, Mechanical movement for. F. Dallemagne. No. 1,006,831; Oct. 24; Sp. p. 5022; Gaz. vol. 171; p. 887.
Ore-concentrating belt. T. R. Brooks. No. 994,439; June 6; Sp. p. 699; Gaz. vol. 167; p. 119.
Ore-concentrating device, Mineral-. H. T. Herr. No. 986,389; Mar. 7; Sp. p. 1333; Gaz. vol. 164; p. 214.
Ore-concentrating machine. O. H. King. No. 1,002,525; Sept. 5; Sp. p. 768; Gaz. vol. 170; p. 113.
Ore-concentrating table. E. A. Wall. No. 988,748; Apr. 4; Sp. p. 985; Gaz. vol. 165; p. 157.
Ore-concentrator. S. K. Behrend. No. 982,785; Jan. 31; Sp. p. 5723; Gaz. vol. 162; p. 1010.
Ore-concentrator. H. E. Wood. No. 987,209; Mar. 21; Sp. p. 3070; Gaz. vol. 164; p. 556.
Ore-concentrator. H. Earle. No. 987,866; Mar. 28; Sp. p. 4454; Gaz. vol. 164; p. 809.
Ore-concentrator. F. Franz. No. 995,449; June 20; Sp. p. 2951; Gaz. vol. 167; p. 526.
Ore-concentrator. B. F. Cobb. No. 996,834; July 4; Sp. p. 478; Gaz. vol. 168; p. 79.
Ore-concentrator. I. F. Monell. No. 997,843; July 11; Sp. p. 2660; Gaz. vol. 168; p. 457.
Ore-concentrator. G. W. Jones. No. 999,456; Aug. 1; Sp. p. 518; Gaz. vol. 169; p. 91.
Ore-concentrator. T. M. Gilchrist. No. 1,004,412; Sept 26; Sp. p. 4887; Gaz. vol. 170; p. 862.
Ore-concentrator. O. H. King. No. 1,007,116; Oct. 31; Sp. p. 5648; Gaz. vol. 171; p. 1037.
Ore-concentrator and placer-machine, Aero. E. H. Tate. No. 984,866; Feb. 21; Sp. p. 3483; Gaz. vol. 163; p. 615.
Ore-concentrator and sliming-table. C. A. Christensen. No. 980,202; Jan. 3; Sp. p. 54; Gaz. vol. 162; p. 11.
Ore-concentrators, Table adjustment for. H. F. Jurs. No. 984,567; Feb. 21; Sp. p. 2865; Gaz. vol. 163; p. 510.
Ore-cooler. T. Edwards. No. 995,445; June 20; Sp. p. 2943; Gaz. vol. 167; p. 525.
Ore-cooling apparatus. J. B. Etherington. No. 986,813; Mar. 14; Sp. p. 2246; Gaz. vol. 164; p. 389.
Ore-crusher. E. A. Wall. No. 988,749; Apr. 4; Sp. p. 988; Gaz. vol. 165; p. 157.
Ore-crusher. C. O. Michaelsen. No. 994,023; May 30; Sp. p. 6835; Gaz. vol. 166; p. 1227.
Ore crusher or grinder G. Johnston. No. 991,317; May 2; Sp. p. 1056; Gaz. vol. 166; p. 176.
Ore-crusher, Roller. L. C. Trent. No. 986,608; Mar. 14; Sp. p. 1807; Gaz. vol. 164; p. 321.
Ore-crushing machine. H. C. Quick. No. 988,505; Apr. 4; Sp. p. 454; Gaz. vol. 165; p. 74.
Ore desulfurizing apparatus, Refractory-. C. A. Case. No. 982,243; Jan. 24; Sp. p. 4567; Gaz. vol. 162; p. 794.
Ore dewatering and classifying apparatus. R. P. Akins. No. 992,629; May 16; Sp. p. 3869; Gaz. vol. 166; p. 690.
Ore-feeder. E. A. Wall. No. 991,677; May 9; Sp. p. 1850; Gaz. vol. 166; p. 334.
Ore-feeder, Automatic. C. T. Hutchinson. No. 983,621; Feb. 7; Sp. p. 785; Gaz. vol. 163; p. 124.
Ore-feeder for separating-machines. A. Ponten. No. 990,773; Apr. 25; Sp. p. 5406; Gaz. vol. 165; p. 932.
Ore-granulator. J. G. Kirksey. No. 994,934; June 13; Sp. p. 1859; Gaz. vol. 167; p. 327.
Ore-handling apparatus. C. H. Wright. No. 1,007,762; Nov. 7; Sp. p. 242; Gaz. vol. 172; p. 39.
Ore-jig. H. Foust. No. 983,616; Feb. 7; Sp. p. 777; Gaz. vol. 163; p. 123.
Ore-jig. G. H. Williams. No. 992,092; May 9; Sp. p. 2646; Gaz. vol. 166; p. 471.
Ore-mill. J. P. Smythe. No. 989,819; Apr. 18; Sp. p. 3282; Gaz. vol. 165; p. 573.
Ore products for the recovery of the metal contents thereof, Apparatus for treating crushed. A. J. Arbuckle. No. 1,008,513; Nov. 14; Sp. p. 2003; Gaz. vol. 172; p. 342.
Ore products, Means for separating liquid from crushed. W. A. Caldecott. No. 1,008,524; Nov. 14; Sp. p. 2027; Gaz. vol. 172; p. 346.
Ore-pulverizer. J. J. Knight. No. 983,067; Jan. 31; Sp. p. 6358; Gaz. vol. 162; p. 1105.
Ore reduction and smelting and arrangement therefor. F. Tharaldsen. No. 1,007,990; Nov. 7; Sp. p. 753; Gaz. vol. 172; p. 119.
Ore roaster, Talc-. G. A. Stanton. No. 988,396; Apr. 4; Sp. p. 233; Gaz. vol. 165; p. 38.
Ore-roasting furnace. N. L. Heinz and W. H. Freeland. No. 986,709; Mar. 14; Sp. p. 2021; Gaz. vol. 164; p. 354.
Ore-roasting furnace. C. Pfaul. No. 989,868; Apr. 18; Sp. p. 3377; Gaz. vol. 165; p. 589.
Ore-roasting furnace. T. Edwards. No. 1,008,892; Nov. 14; Sp. p. 2819; Gaz. vol. 172; p. 475.
Ore-roasting process and apparatus. A. R. Wilfley. No. 996,548; June 27; Sp. p. 5376; Gaz. vol. 167; p. 941.
Ore-sampler. O. H. Fairchild. No. 1,001,129; Aug. 22; Sp. p. 4178; Gaz. vol. 169; p. 764.
Ore-screen. E. A. Wall. No. 1,005,907; Oct. 17; Sp. p. 2930; Gaz. vol. 171; p. 531.
Ore-separating apparatus. T. Charlton. No. 1,003,704; Sept. 19; Sp. p. 3317; Gaz. vol. 170; p. 594.
Ore-separating apparatus, Centrifugal. P. F. Peck. No. 981,681; Jan. 17; Sp. p. 3366; Gaz. vol. 162; p. 571.
Ore separation, Dry. W. W. Bonson. No. 980,890; Jan. 3; Sp. p. 1548; Gaz. vol. 162; p. 245.
Ore separation, Hydraulic system of. W. Polglase and F. Bates. No. 1,012,151; Dec. 19; Sp. p. 3950; Gaz. vol. 173; p. 682.
Ore-separator. J. Stanley. No. 995,578; June 20; Sp. p. 3240; Gaz. vol. 167; p. 573.
Ore-separator, Centrifugal. P. F. Peck. No. 981,679; Jan. 17; Sp. p. 3354; Gaz. vol. 162; p. 570.
Ore-separator, Centrifugal. P. F. Peck. No. 981,680; Jan. 17; Sp. p. 3360; Gaz. vol. 162; p. 570.
Ore-separator, Centrifugal. P. F. Peck. No. 981,682; Jan. 17; Sp. p. 3379; Gaz. vol. 162; p. 571.
Ore-separator, Centrifugal. P. F. Peck. No. 1,011,077; Dec. 5; Sp. p. 1474; Gaz. vol. 173; p. 234.
Ore-separator, Centrifugal. P. F. Peck. No. 1,011,078; Dec. 5; Sp. p. 1479; Gaz. vol. 173; p. 235.
Ore-separator, Centrifugal. P. F. Peck. No. 1,012,097; Dec. 19; Sp. p. 3836; Gaz. vol. 173; p. 664.
Ore-separator, Dry. W. W. Bonson. No. 980,891; Jan. 3; Sp. p. 1549; Gaz. vol. 162; p. 245.
Ore-separator, Magnetic. J. B. Etherington. No. 1,006,835; Oct. 24; Sp. p. 5036; Gaz. vol. 171; p. 888.
Ore-treating apparatus. I. A. Braddock. No. 988,437; Apr. 4; Sp. p. 314; Gaz. vol. 165; p. 52.
Ore-treating apparatus. E. B. Goodwin. No. 988,458; Apr. 4; Sp. p. 356; Gaz. vol. 165; p. 58.
Ore, Treating emery. F. J. Tone. No. 1,002,608; Sept. 5; Sp. p. 958; Gaz. vol. 170; p. 142.
Ore treatment. T. J. Lovett. No. 994,472; June 6; Sp. p. 748; Gaz. vol. 167; p. 129.
Ore-washer. A. M. Gow. No. 998,573; July 18; Sp. p. 4280; Gaz. vol. 168; p. 756.
Ores and for the electrolytic deposition of gold and silver and other metals from solutions containing said metals, Apparatus for the treatment of. F. C. Brown. No. 987,428; Mar. 21; Sp. p. 3520; Gaz. vol. 164; p. 629.
Ores and the like, Refining and agglomerating. H. Dicke. No. 986,271; Mar. 7; Sp. p. 1076; Gaz. vol. 164; p. 172.
Ores, Apparatus for classifying and concentrating. R. E. Trottier. No. 981,230; Jan. 10; Sp. p. 2440; Gaz. vol. 162; p. 395.
Ores, Apparatus for electrochemical treatment of. T. Bubola. No. 991,695; May 9; Sp. p. 1884; Gaz. vol. 166; p. 340.
Ores, Apparatus for the treatment of. G. Mitchell. No. 997,405; July 11; Sp. p. 1684; Gaz. vol. 168; p. 306.
Ores by the blast-furnace process, Treating. F. A. Kjellin. No. 983,453; Feb. 7; Sp. p. 424; Gaz. vol. 163; p. 68.
Ores, Concentrating. W. M. Sanders. No. 988,737; Apr. 4; Sp. p. 968; Gaz. vol. 165; p. 153.
Ores containing gold and silver, Apparatus for dressing. C. Giesecke. No. 1,003,595; Sept. 19; Sp. p. 3079; Gaz. vol. 170; p. 555.
Ores for recovering metal values therefrom, Treatment of. H. W. Kent. No. 1,009,906; Nov. 28; Sp. p. 5002; Gaz. vol. 172; p. 903.
Ores, Gravity liquid separation of certain iron. F. I. Du Pont. No. 1,002,865; Sept. 12; Sp. p. 1537; Gaz. vol. 170; p. 268.
Ores in a converter, Treatment of sulfureted copper-zinc. D. Korda. No. 1,003,051; Sept. 12; Sp. p. 1915; Gaz. vol. 170; p. 331.
Ores, Machine for separating solutions from crushed. E. P. Lynch. No. 985,611; Feb. 28; Sp. p. 5117; Gaz. vol. 163; p. 905.
Ores, Magnetic preparation of. A. A. Lockwood. No. 996,491; June 27; Sp. p. 5268; Gaz. vol. 167; p. 924.
Ores, Magnetically separating. C. Q. Payne. No. 994,871; June 13; Sp. p. 1711; Gaz. vol. 167; p. 305.
Ores, Process of and apparatus for concentrating metalliferous. H. E. Wood. No. 984,633; Feb. 21; Sp. p. 3010; Gaz. vol. 163; p. 533.
Ores, Reducing. O. Frick. No. 1,010,490; Dec. 5; Sp. p. 194; Gaz. vol. 173; p. 33.
Ores, Reducing and desulfurizing refractory. C. A. Case. No. 982,245; Jan. 24; Sp. p. 4575; Gaz. vol. 162; p. 795.
Ores, Roasting sulfid. C. W. Renwick. No. 981,880; Jan. 17; Sp. p. 3788; Gaz. vol. 162; p. 640.
Ores, Separating. C. Q. Payne. No. 994,870; June 13; Sp. p. 1707; Gaz. vol. 167; p. 305.
Ores, Treating. I. A. Braddock. No. 987,850; Mar. 28; Sp. p. 4413; Gaz. vol. 164; p. 803.

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Ores, Treating. J. E. Porter. No. 1,002,446; Sept. 5; Sp. p. 605; Gaz. vol. 170; p. 87.
Ores, Treating. F. R. and A. H. Carpenter. No. 1,006,355; Oct. 17; Sp. p. 3937; Gaz. vol. 171; p. 688.
Ores, Treating metalliferous. J. C. Clancy. No. 1,010,347; Nov. 28; Sp. p. 5908; Gaz. vol. 172; p. 1052.
Ores, Treating refractory sulfid. J. E. Porter. No. 1,002,447; Sept. 5; Sp. p. 608; Gaz. vol. 170; p. 87.
Ores, Treatment of auriferous and argentiferous. A. A. Lockwood. No. 993,451; May 30; Sp. p. 5627; Gaz. vol. 166; p. 1030.
Ores, Treatment of complex. E. A. Ashcroft. No. 1,011,897; Dec. 19; Sp. p. 3372; Gaz. vol. 173; p. 592.
Ores, Treatment of gold-bearing antimony. J. Jones and H. S. Bohm. No. 984,090; Feb. 14; Sp. p. 1826; Gaz. vol. 163; p. 314.
Ores, Treatment of precious metalliferous. J. C. Clancy. No. 998,749; July 25; Sp. p. 4704; Gaz. vol. 168; p. 852.
Ores, Treatment of sulfid. J. A. McLarty. No. 987,156; Mar. 21; Sp. p. 2933; Gaz. vol. 164; p. 536.
Organ, Electrically-operated. W. B. Fleming. No. 982,419; Jan. 24; Sp. p. 4954; Gaz. vol. 162; p. 857.
Organ-pipe. R. Y. Barrows. No. 1,006,425; Oct. 17; Sp. p. 4090; Gaz. vol. 171; p. 713.
Organ stop-action. H. M. Love. No. 998,189; July 18; Sp. p. 3439; Gaz. vol. 168; p. 620.
Organs and musical instruments, Wind-chest for self-playing. W. A. Brauer. No. 1,002,126; Aug. 29; Sp. p. 6233; Gaz. vol. 169; p. 1127.
Organic compound and making the same. W. F. Doerflinger. No. 1,003,438; Sept. 19; Sp. p. 2726; Gaz. vol. 170; p. 500.
Ornamenting device. S. Winterbottom and R. H. Bennett. No. 984,632; Feb. 21; Sp. p. 3009; Gaz. vol. 163; p. 533.
Ornamenting surfaces. J. F. Glidden. No. 1,001,585; Aug. 22; Sp. p. 5077; Gaz. vol. 169; p. 914.
Orthodontia apparatus. R. Wiles. No. 982,406; Jan. 24; Sp. p. 4925; Gaz. vol. 162; p. 853.
Orthodontia apparatus. C. F. Montag. No. 986,076; Mar. 7; Sp. p. 684; Gaz. vol. 164; p. 110.
Orthodontia apparatus. T. H. Montague. No. 986,425; Mar. 7; Sp. p. 1409; Gaz. vol. 164; p. 227.
Orthodontia apparatus. T. H. Montague. No. 1,008,663; Nov. 14; Sp. p. 2350; Gaz. vol. 172; p. 397.
Orthodontia appliance. C. F. Montag. No. 1,002,536; Sept. 5; Sp. p. 798; Gaz. vol. 170; p. 116.
Orthonitrobenzaldehyde. J. Koetschet and A. Barbier. No. 997,301; July 11; Sp. p. 1489; Gaz. vol. 168; p. 272.
Orthopter. J. O'Leary. No. 1,011,836; Dec. 12; Sp. p. 3224; Gaz. vol. 173; p. 538.
Oscillating engine. K. Moscicki. No. 1,000,432; Aug. 15; Sp. p. 2602; Gaz. vol. 169; p. 484.
Oscillating motor. J. G. McDowell. No. 1,006,966; Oct. 24; Sp. p. 5299; Gaz. vol. 171; p. 932.
Oscillating motor. G. Heger. No. 1,009,066; Nov. 21; Sp. p. 3212; Gaz. vol. 172; p. 569.
Oscillatory motor. R. Rainalter. No. 1,001,684; Aug. 29; Sp. p. 5307; Gaz. vol. 169; p. 980.
Outdoor sleeping-apartment. J. Hoyt. No. 989,012; Apr. 11; Sp. p. 1514; Gaz. vol. 165; p. 266.
Outlet-box. F. I. Thayer. No. 982,193; Jan. 17; Sp. p. 4460; Gaz. vol. 162; p. 748.
Outlet-box. C. Rudkiewicz. No. 982,535; Jan. 24; Sp. p. 5210; Gaz. vol. 162; p. 899.
Outlet-box. N. Marshall. No. 984,771; Feb. 21; Sp. p. 3311; Gaz. vol. 163; p. 584.
Outlet-box. R. B. Benjamin. No. 1,007,420; Oct. 31; Sp. p. 6303; Gaz. vol. 171; p. 1146.
Outlet-boxes, Closure for openings of. H. T. Paiste. No. 990,161; Apr. 18; Sp. p. 3987; Gaz. vol. 165; p. 688.
Outlet-boxes, Pipe connection for. J. N. Scism. No. 1,000,043; Aug. 8; Sp. p. 1706; Gaz. vol. 169; p. 319.
Oven and furnace door. W. Young. No. 986,340; Mar. 7; Sp. p. 1215; Gaz. vol. 164; p. 196.
Oven attachment, Baker's-. R. L. Gillispie. No. 1,002,671; Sept. 5; Sp. p. 1079; Gaz. vol. 170; p. 163.
Oven, Bake-. W. Clauss. No. 1,003,133; Sept. 12; Sp. p. 2089; Gaz. vol. 170; p. 360.
Oven, Baker's. J. M. Gantvoort. No. 982,665; Jan. 24; Sp. p. 5456; Gaz. vol. 162; p. 941.
Oven, Baker's. J. Clarey. No. 987,957; Mar. 28; Sp. p. 4714; Gaz. vol. 164; p. 841.
Oven, Baker's. W. Schwartz. No. 993,464; May 30; Sp. p. 5649; Gaz. vol. 166; p. 1034.
Oven, Baker's. J. Luedecke. No. 996,495; June 27; Sp. p. 5273; Gaz. vol. 167; p. 925.
Oven, Baking-. J. Miller, Jr. No. 1,005,732; Oct. 10; Sp. p. 2544; Gaz. vol. 171; p. 437.
Oven, Baking-. E. Hérissé. No. 1,009,414; Nov. 21; Sp. p. 4017; Gaz. vol. 172; p. 694.
Oven, Baking-. J. M. Gantvoort. No. 1,010,421; Dec. 5; Sp. p. 36; Gaz. vol. 173; p. 8.
Oven, Baking-. C. I. Bohlin. No. 1,012,592; Dec. 26; Sp. p. 4866; Gaz. vol. 173; p. 877.
Oven, Combination-. J. J. Ross. No. 980,680; Jan. 3; Sp. p. 1097; Gaz. vol. 162; p. 175.
Oven-door. W. E. Huenefeld. No. 990,983; May 2; Sp. p. 327; Gaz. vol. 166; p. 57.
Oven-door. K. Höffler. No. 1,000,910; Aug. 15; Sp. p. 3642; Gaz. vol. 169; p. 654.
Oven-door. W. R. Jeavons. No. 1,008,414; Nov. 14; Sp. p. 1774; Gaz. vol. 172; p. 308.
Oven-door. W. E. Huenefeld. No. 1,011,059; Dec. 5; Sp. p. 1439; Gaz. vol. 173; p. 228.
Oven-door, Transparent. C. M. Becker and L. L. Brown. No. 1,010,845; Dec. 5; Sp. p. 995; Gaz. vol. 173; p. 155.
Oven, Electric. J. V. Chown. No. 985,144; Feb. 28; Sp. p. 4046; Gaz. vol. 163; p. 743.
Oven, Electric. G. J. Ogden. No. 987,161; Mar. 21; Sp. p. 2952; Gaz. vol. 164; p. 537.
Oven, Electrical. H. Gray. No. 1,001,637; Aug. 29; Sp. p. 5195; Gaz. vol. 169; p. 963.
Oven, Electrically-heated. F. J. Cook. No. 988,695; Apr. 4; Sp. p. 859; Gaz. vol. 165; p. 139.
Oven, Gas-. F. S. Hartwell. No. 999,717; Aug. 1; Sp. p. 1026; Gaz. vol. 169; p. 177.
Oven, Gas and like cooking-. J. A. F. Glover. No. 993,241; May 23; Sp. p. 5163; Gaz. vol. 166; p. 928.
Oven grate, Baker's-. I. Slapo. No. 1,009,697; Nov. 21; Sp. p. 4566; Gaz. vol. 172; p. 786.
Oven, Heat-insulated. H. L. Lowrie. No. 1,002,716; Sept. 5; Sp. p. 1199; Gaz. vol. 170; p. 179.
Oven-illuminating device. T. Cascaden, Jr. No. 980,598; Jan. 3; Sp. p. 910; Gaz. vol. 162; p. 147.
Oven or the like. E. Woollett. No. 1,011,698; Dec. 12; Sp. p. 2932; Gaz. vol. 173; p. 490.
Oven-shelf-adjusting means. B. F. Cramer. No. 999,633; Aug. 1; Sp. p. 858; Gaz. vol. 169; p. 149.
Oven, Steam-pipe. G. Lunt. No. 981,443; Jan. 10; Sp. p. 2906; Gaz. vol. 162; p. 470.
Ovens, kilns, or other structures, Door for. E. H. McCloud. No. 987,155; Mar. 21; Sp. p. 2931; Gaz. vol. 164; p. 535.
Overalls. A. Eloesser. No. 986,273; Mar. 7; Sp. p. 1080; Gaz. vol. 164; p. 173.
Overalls. T. B. and J. C. Pell. No. 1,007,969; Nov. 7; Sp. p. 718; Gaz. vol. 172; p. 112.
Overcheck. B. Irwin. No. 1,012,645; Dec. 26; Sp. p. 4986; Gaz. vol. 173; p. 895.
Overhead carrier. J. G. Lund. No. 988,795; Apr. 4; Sp. p. 1084; Gaz. vol. 165; p. 173.
Overhead carrier. F. B. Carpenter, E. D. Swartley, and W. A. Derstine. No. 1,007,267; Oct. 31; Sp. p. 5984; Gaz. vol. 171; p. 1092.
Overhead carrier, Automatic. J. C. Fitzgerald and C. Murray. No. 994,071; May 30; Sp. p. 6921; Gaz. vol. 166; p. 1243.
Overhead switch. H. L. Ferris. No. 989,899; Apr. 18; Sp. p. 3438; Gaz. vol. 165; p. 599.
Overhead washer. I. J. Smith. No. 980,353; Jan. 3; Sp. p. 341; Gaz. vol. 162; p. 62.
Overshoe. G. N. Kinnell. No. 1,010,384; Nov. 28; Sp. p. 5995; Gaz. vol. 172; p. 1063.
Overshoe. G. N. Kinnell. No. 1,010,386; Nov. 28; Sp. p. 5999; Gaz. vol. 172; p. 1064.
Overshoe. G. N. Kinnell. No. 1,010,387; Nov. 28; Sp. p. 6002; Gaz. vol. 172; p. 1064.
Overshoe and link therefor, Emergency-. G. N. Kinnell. No. 1,010,385; Nov. 28; Sp. p. 5997; Gaz. vol. 172; p. 1064.
Overshoe and tread-surface therefor. G. N. Kinnell. No. 1,010,383; Nov. 28; Sp. p. 5993; Gaz. vol. 172; p. 1063.
Overshoe, Calk-bearing. G. S. Meyer. No. 984,957; Feb. 21; Sp. p. 3658; Gaz. vol. 163; p. 645.
Overshoe-retainer. W. G. Wheeler. No. 993,212; May 23; Sp. p. 5104; Gaz. vol. 166; p. 919.
Oversuit, Workman's. R. S. Hall. No. 997,669; July 11; Sp. p. 2237; Gaz. vol. 168; p. 396.
Oxalates, Manufacture of. C. Ellis. No. 1,001,937; Aug. 29; Sp. p. 5867; Gaz. vol. 169; p. 1066.
Oxid, Making nitric. F. Häusser. No. 1,000,732; Aug. 15; Sp. p. 3268; Gaz. vol. 169; p. 591.
Oxid, Manufacture of ferric. J. Gill. No. 1,008,321; Nov 14; Sp. p. 1508; Gaz. vol. 172; p. 276.
Oxids, Obtaining solutions or quasi solutions of certain metallic. Z. Cartwright. No. 988,692; Apr. 4; Sp. p. 852; Gaz. vol. 165; p. 138.
Oxids, Reduction of metallic. W. Mathesius. No. 1,003,627; Sept. 19; Sp. p. 3141; Gaz. vol. 170; p. 567.
Oxidizing nitrogen of air by means of electric discharges. K. Kaiser. No. 984,925; Feb. 21; Sp. p. 3597; Gaz. vol. 163; p. 634.
Oxygen and hydrogen, Electrolytic device for generating pure. R. Moritz. No. 981,102; Jan. 10; Sp. p. 2114; Gaz. vol. 162; p. 350.
Oxygen, Device for generating and administering. D. E. Parker. No. 980,996; Jan. 10; Sp. p. 1874; Gaz. vol. 162; p. 312.
Oxygen, Device for the administration of medicated. G. W. Phillips. No. 1,009,929; Nov. 28; Sp. p. 5047; Gaz. vol. 172; p. 911.
Oxygen, Generating. M. Mauran and J. H. MacMahon. No. 1,001,873; Aug. 29; Sp. p. 5720; Gaz. vol. 169; p. 1046.
Oxygen-generator. R. C. Bradley. No. 983,806; Feb. 7; Sp. p. 1168; Gaz. vol. 163; p. 187.
Oxygen, Making nitrogen-. K. Kaiser. No. 987,375; Mar. 21; Sp. p. 3411; Gaz. vol. 164; p. 612.
Oxygen, Preparation for slowly liberating. L. Sarason. No. 1,000,298; Aug. 8; Sp. p. 2294; Gaz. vol. 169; p. 406.

Alphabetical list of inventions—Continued.

Oyster-can. L. R. Steel. No. 989,658; Apr. 18; Sp. p. 2933; Gaz. vol. 165; p. 517.
Oyster-dipper. E. F. Hulbert. No. 1,005,708; Oct. 10; Sp. p. 2501; Gaz. vol. 171; p. 429.
Oyster dredging and manipulating machine. N. A. Lybeck. No. 991,333; May 2; Sp. p. 1088; Gaz. vol. 166; p. 182.
Oyster-opener. A. F. Hall. No. 997,996; July 18; Sp. p. 3018; Gaz. vol. 168; p. 552.
Oyster-punching machine. A. M. Zimmers. No. 1,007,411; Oct. 31; Sp. p. 6282; Gaz. vol. 171; p. 1143.
Oysters and other mollusks, Treating. K. Mikimoto. No. 988,889; Apr. 4; Sp. p. 1259; Gaz. vol. 165; p. 201.
Oysters, Extracting pearls from. J. I. Solomon. No. 989,072; Apr. 11; Sp. p. 1647; Gaz. vol. 165; p. 287.
Ozonator. L. Goldberg. No. 995,958; June 20; Sp. p. 4060; Gaz. vol. 167; p. 706.
Ozone, Composition yielding. A. H. Twombly. No. 984,722; Feb. 21; Sp. p. 3206; Gaz. vol. 163; p. 567.
Ozone-generating apparatus. C. Knips and E. Ey. No. 983,907; Feb. 14; Sp. p. 1428; Gaz. vol. 163; p. 252.
Ozone-generator. E. P. Woillard. No. 994,294; June 6; Sp. p. 391; Gaz. vol. 167; p. 67.
Ozone generator and inhaling apparatus, Combined. R. P. Guiley. No. 996,850; July 4; Sp. p. 513; Gaz. vol. 168; p. 85.
Ozone-producing apparatus. L. Glaser. No. 982,227; Jan. 17; Sp. p. 4534; Gaz. vol. 162; p. 760.
Ozone-producing apparatus. C. D. Meeker. No. 987,902; Mar. 28; Sp. p. 4554; Gaz. vol. 164; p. 821.
Ozone-producing apparatus. C. G. Armstrong. No. 991,767; May 9; Sp. p. 2006; Gaz. vol. 166; p. 361.
Ozone-producing apparatus. O. Patin. No. 992,980; May 23; Sp. p. 4619; Gaz. vol. 166; p. 843.
Ozonizer. J. Steynis. No. 997,339; July 11; Sp. p. 1571; Gaz. vol. 168; p. 284.
Ozonizer. R. M. Leggett. No. 1,010,777; Dec. 5; Sp. p. 849; Gaz. vol. 173; p. 132.
Ozonizing and compressing process. C. S. Bradley. No. 996,561; June 27; Sp. p. 5397; Gaz. vol. 167; p. 945
Pack-carrier. F. C. Harriman. No. 995,458; June 20; Sp. p. 2969; Gaz. vol. 167; p. 530.
Pack-heating furnace. C. W. Bray. No. 985,776; Mar. 7; Sp. p. 20; Gaz. vol. 164; p. 6.
Pack-opening apparatus. C. W. Bray. No. 991,195; May 2; Sp. p. 786; Gaz. vol. 166; p. 133
Pack-opening apparatus. C. W. Bray. No. 997,958; July 18; Sp. p. 2934; Gaz. vol. 168; p. 539.
Pack-sling. F. C. Harriman. No. 995,963; June 20; Sp. p. 4067; Gaz. vol. 167; p. 708.
Packs on animals, Means for lashing. W. T. Moore. No. 982,975; Jan. 31; Sp. p. 6139; Gaz. vol. 162; p. 1072.
Package. J. F. Bowditch. No. 981,744; Jan. 17; Sp. p. 3494; Gaz. vol. 162; p. 592.
Package. A. Gräfin v Dyhrn. No. 992,645; May 16; Sp. p. 3898; Gaz. vol. 166; p. 695.
Package. W. L. Bretherton. No. 1,008,237; Nov. 7; Sp. p. 1277; Gaz. vol. 172; p. 208.
Package. P. W. Merchant. No. 1,009,771; Nov. 28; Sp. p. 4743; Gaz. vol. 172; p. 859.
Package and toy. F. Gardner. No. 990,725; Apr. 25; Sp. p. 5303; Gaz. vol. 165; p. 915.
Package, Bilged metallic. B. Osland. No. 1,006,780; Oct. 24; Sp. p. 4880; Gaz. vol. 171; p. 867.
Package-binder. J. L. Downer. No. 1,004,246; Sept. 26; Sp. p. 4566; Gaz. vol. 170; p. 808.
Package-carrier. C. J. Miller. No. 981,783; Jan. 17; Sp. p. 3574; Gaz. vol. 162; p. 607.
Package-carrier. F. G. Pope. No. 1,000,118; Aug. 8; Sp. p. 1912; Gaz. vol. 169; p. 345.
Package closure, Metallic-. L. O. Brown and L. Bauroth. No. 1,005,934; Oct. 17; Sp. p. 3006; Gaz. vol. 171; p. 541.
Package-depository, Self-locking. G. Valentine. No. 1,005,373; Oct. 10; Sp. p. 1754; Gaz. vol. 171; p. 312.
Package-filling machine. N. J. Lane. No. 1,006,236; Oct. 17; Sp. p. 3682; Gaz. vol. 171; p. 648.
Package for liquids. J. R. Van Wormer. No. 998,309; July 18; Sp. p. 3748; Gaz. vol. 168; p. 666.
Package-handling apparatus. W. E. Nickerson. No. 985,829; Mar. 7; Sp. p. 134; Gaz. vol. 164; p. 25.
Package-indicating machine. W. Rose. No. 985,939; Mar. 7; Sp. p. 392; Gaz. vol. 164; p. 62.
Package, Metallic. L. Bauroth. No. 1,000,486; Aug. 15; Sp. p. 2714; Gaz. vol. 169; p. 503.
Packing, Metallic piston-rod. W. Hoey. No. 1,007,283; Oct. 31; Sp. p. 6017; Gaz. vol. 171; p. 1098.
Package, Metallic shipping-. L. S. Howe. No. 1,004,028; Sept. 26; Sp. p. 4052; Gaz. vol. 170; p. 731.
Package of bottle-caps, &c., Tube. F. K. Plympton. No. 1,000,970; Aug. 15; Sp. p. 3772; Gaz. vol. 169; p. 673.
Package-packer. A. K. Robbins. No. 990,777; Apr. 25; Sp. p. 5415; Gaz. vol. 165; p. 934.
Package, Shipping-. J. M. Hommel. No. 1,008,151; Nov. 7; Sp. p. 1073; Gaz. vol. 172; p. 175.
Package, Shipping and dispensing. J. Welsh. No. 1,003,558; Sept. 19; Sp. p. 2972; Gaz. vol. 170; p. 542.
Package, Special. R. G. Smith. No. 985,850; Mar. 7; Sp. p. 194; Gaz. vol. 164; p. 31.
Package-tie. W. D. Smith. No. 981,890; Jan. 17; Sp. p. 3810; Gaz. vol. 162; p. 644.
Package-tie. I. P. Canfield. No. 982,031; Jan. 17; Sp. p. 4155; Gaz. vol. 162; p. 693.
Package-tie. D. B. G. Rose. No. 1,001,079; Aug. 22; Sp. p. 4078; Gaz. vol. 169; p. 748.
Packaging and wrapping machine. C. H. and A. Day. No. 989,574; Apr. 18; Sp. p. 2741; Gaz. vol. 165; p. 489.
Packaging and wrapping machine. G. Townsend. No. 989,666; Apr. 18; Sp. p. 2946; Gaz. vol. 165; p. 520.
Packaging-machine. M. F. Anderson. No. 995,939; June 20; Sp. p. 4027; Gaz. vol. 167; p. 700.
Packaging-machine. G. F. Hall. No. 999,555; Aug. 1; Sp. p. 719; Gaz. vol. 169; p. 123.
Packaging, Process of. H. Coale. No. 989,337; Apr. 11; Sp. p. 2221; Gaz. vol. 165; p. 377.
Packet for braid and other narrow fabrics. C. S. King. No. 992,964; May 23; Sp. p. 4592; Gaz. vol. 166; p. 837.
Packets into sliding trays and boxes, Machinery for introducing inclosed. E. L. Bracy. No. 980,917; Jan. 10; Sp. p. 1639; Gaz. vol. 162; p. 284.
Packeting tea or other substances, Machine for. E. C. Lovell. No. 989,914; Apr. 18; Sp. p. 3477; Gaz. vol. 165; p. 605.
Packing. S. P. and V. Morrison. No. 984,836; Feb. 21; Sp. p. 3432; Gaz. vol. 163; p. 605.
Packing. P. S. Tirrill. No. 998,558; July 18; Sp. p. 4234; Gaz. vol. 168; p. 750.
Packing. W. E. Sanders. No. 1,001,693; Aug. 29; Sp. p. 5326; Gaz. vol. 169; p. 983.
Packing and reshipping box. C. Wallis and A. E. Pearce. No. 1,003,016; Sept. 12; Sp. p. 1847; Gaz. vol. 170; p. 320.
Packing-box, Folding. L. P. Rexford. No. 996,364; June 27; Sp. p. 4992; Gaz. vol. 167; p. 879.
Packing, Car-axle-journal-box. C. C. Howe. No. 997,501; July 11; Sp. p. 1866; Gaz. vol. 168; p. 337.
Packing-case. J. H. Killion. No. 986,467; Mar. 14; Sp. p. 1502; Gaz. vol. 164; p. 271.
Packing-case. H. L. Bradley. No. 996,967; July 4; Sp. p. 772; Gaz. vol. 168; p. 126.
Packing-case. J. A. Moss. No. 999,394; Aug. 1; Sp. p. 402; Gaz. vol. 169; p. 71.
Packing-case, Collapsible. E. S. Shepherd. No. 1,000,955; Aug. 15; Sp. p. 3732; Gaz. vol. 169; p. 669.
Packing-case, Sheet-metal. S. L. A. Killion. No. 1,011,445; Dec. 12; Sp. p. 2341; Gaz. vol. 173; p. 400.
Packing device. G. F. Steedman. No. 1,000,563; Aug. 15; Sp. p. 2899; Gaz. vol. 169; p. 531.
Packing device for piston-rods, slide-valve rods, &c. D. Robertson. No. 1,008,067; Nov. 7; Sp. p. 908; Gaz. vol. 172; p. 145.
Packing expander, Piston-. G. Christenson. No. 984,888; Feb. 21; Sp. p. 3521; Gaz. vol. 163; p. 623.
Packing for light-sensitive layer-carriers. J. Schmuck. No. 1,000,630; Aug. 15; Sp. p. 3063; Gaz. vol. 169; p. 557.
Packing for piston-rods, &c., Metallic. W. Foden. No. 998,165; July 18; Sp. p. 3390; Gaz. vol. 168; p. 611.
Packing for piston-rods, Metallic. J. H. Lewis and L. G. Kunzer. No. 1,008,655; Nov. 14; Sp. p. 2336; Gaz. vol. 172; p. 394.
Packing for piston-rods or the like. G. H. Robinson. No. 1,000,293; Aug. 8; Sp. p. 2284; Gaz. vol. 169; p. 404.
Packing for self-balancing purposes. F. Ljungström. No. 997,628; July 11; Sp. p. 2151; Gaz. vol. 168; p. 381.
Packing for valves. C. W. Miller. No. 985,618; Feb. 28; Sp. p. 5129; Gaz. vol. 163; p. 907.
Packing, Lubricating-. W. H. Drury. No. 1,001,371; Aug. 22; Sp. p. 4681; Gaz. vol. 169; p. 845.
Packing-machine. R. W. Tucker. No. 998,936; July 25; Sp. p. 5118; Gaz. vol. 168; p. 917.
Packing material, Elastic core for. A. Montgomery. No. 989,177; Apr. 11; Sp. p. 1861; Gaz. vol. 165; p. 323.
Packing material, Reticulated-sheet. M. A. Brown. No. 1,002,132; Aug. 29; Sp. p. 6245; Gaz. vol. 169; p. 1129.
Packing means for stuffing-boxes. M. Collins. No. 990,841; May 2; Sp. p. 28; Gaz. vol. 166; p. 7.
Packing, Metallic. C. O. Bulock. No. 980,594; Jan. 3; Sp. p. 901; Gaz. vol. 162; p. 145.
Packing, Metallic. W. M. Brooke. No. 981,912; Jan. 17; Sp. p. 3883; Gaz. vol. 162; p. 653.
Packing, Metallic. M. Brussard. No. 983,201; Jan. 31; Sp. p. 6598; Gaz. vol. 162; p. 1148.
Packing, Metallic. J. Bowie. No. 989,228; Apr. 11; Sp. p. 1970; Gaz. vol. 165; p. 339.
Packing, Metallic. F. Felbinger. No. 999,767; Aug. 8; Sp. p. 1136; Gaz. vol. 169; p. 225.
Packing, Metallic. G. D. Rollins. No. 1,000,757; Aug. 15; Sp. p. 3323; Gaz. vol. 169; p. 600.
Packing, Metallic piston-rod. W. Hoey. No. 1,008,644; Nov. 14; Sp. p. 2315; Gaz. vol. 172; p. 391.
Packing or shipping box. J. E. Clenny and W. H. Fairchild. No. 987,958; Mar. 28; Sp. p. 4716; Gaz. vol. 164; p. 842.
Packing-pads, Machine for making. C. A. Anderson. No. 1,006,452; Oct. 24; Sp. p. 4156; Gaz. vol. 171; p. 751.
Packing, Pipe-coupling. W. W. Price. No. 980,671; Jan. 3; Sp. p. 1080; Gaz. vol. 162; p. 172.
Packing, Piston-. R. A. Fowden. No. 987,057; Mar. 14; Sp. p. 2722; Gaz. vol. 164; p. 470.

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Packing, Piston-. E. Duchesne. No. 1,008,799; Nov. 14; Sp. p. 2648; Gaz. vol. 172; p. 444.
Packing, Piston-rod. J. A. Bolch. No. 1,000,890; Aug. 15; Sp. p. 3601; Gaz. vol. 169; p. 647.
Packing, Piston-rod. M. A. Thiel. No. 1,003,162; Sept. 12; Sp. p. 2150; Gaz. vol. 170; p. 369.
Packing, Piston-rod. C. P. McMullen. No. 1,006,114; Oct. 17; Sp. p. 3378; Gaz. vol. 171; p. 602.
Packing-receptacle. W. Ekermeyer. No. 1,008,963; Nov. 14; Sp. p. 2979; Gaz. vol. 172; p. 496.
Packing-ring. C. H. Steves. No. 988,833; Apr. 4; Sp. p. 1152; Gaz. vol. 165; p. 184.
Packing-ring. J. J. Helling. No. 1,005,970; Oct. 17; Sp. p. 3082; Gaz. vol. 171; p. 554.
Packing-ring. H. B. Karlin. No. 1,010,770; Dec. 5; Sp. p. 838; Gaz. vol. 173; p. 130.
Packing-ring for axle-box bearings. J. Schmid-Roost. No. 996,798; July 4; Sp. p. 394; Gaz. vol. 168; p. 67.
Packing-ring for steam-engines. C. H. Anderson. No. 1,010,212; Nov. 28; Sp. p. 5632; Gaz. vol. 172; p. 1008.
Packing-ring, Metal. R. B. Wasson. No. 1,008,999; Nov. 14; Sp. p. 3059; Gaz. vol. 172; p. 509.
Packing-ring, Piston. A. J. West. No. 1,000,135; Aug. 8; Sp. p. 1950; Gaz. vol. 169; p. 351.
Packing-rings, Apparatus for the manufacture of. J. P. Gauthier. No. 988,087; Mar. 28; Sp. p. 4988; Gaz. vol. 164; p. 885.
Packing-rings, Making metal. R. B. Wasson. No. 1,009,000; Nov. 14; Sp. p. 3062; Gaz. vol. 172; p. 509.
Packing, Rod-. P. Dorsey. No. 980,617; Jan. 3; Sp. p. 946; Gaz. vol. 162; p. 153.
Packing, Rod-. T. A. Johnston. No. 982,182; Jan. 17; Sp. p. 4437; Gaz. vol. 162; p. 743.
Packing, Rod-. G. C. Potts and P. H. Weaver. No. 990,587; Apr. 25; Sp. p. 4988; Gaz. vol. 165; p. 869.
Packing, Rod-. C. C. Anderson. No. 996,446; June 27; Sp. p. 5187; Gaz. vol. 167; p. 908.
Packing, Rod-. J. C. Church. No. 1,006,436; Oct. 17; Sp. p. 4108; Gaz. vol. 171; p. 716.
Packing, Rod-. A. C. Thompson. No. 1,011,671; Dec. 12; Sp. p. 2889; Gaz. vol. 173; p. 482.
Packing, Self-adjusting metallic. W. B. Shull. No. 990,017; Apr. 18; Sp. p. 3699; Gaz. vol. 165; p. 641.
Packing, Self-centering shaft-. E. H. Farquhar. No. 980,231; Jan. 3; Sp. p. 105; Gaz. vol. 162; p. 20.
Packing, Shaft-. W. A. Zimmer. No. 990,943; May 2; Sp. p. 248; Gaz. vol. 166; p. 43.
Packing, Shaft-. B. Ljungström. No 1,009,425; Nov. 21; Sp. p. 4046; Gaz. vol. 172; p. 698.
Packing-strip. C. A. A. Freerks. No. 1,004,159; Sept. 26; Sp. p. 4395; Gaz. vol. 170; p. 778.
Packing, Stuffing-box. R. H. Howarth. No. 1,013,017; Dec. 26; Sp. p. 5846; Gaz. vol. 173; p. 1022.
Packing, Valve-stem. A. P. Lane. No. 991,329; May 2; Sp. p. 1082; Gaz. vol. 166; p. 181.
Packings, Means for adjusting cylinder-. J. Harley. No. 980,518; Jan. 3; Sp. p. 752; Gaz. vol. 162; p. 120.
Pad: *See* Arm-scye pad; Blotter-pad; Blotting-pad; Collar-pad; Harness-pad; Horseshoe-pad; Inking-pad; Memorandum-pad; Shoulder-pad; Stamping-pad; Toilet-pad; Wrist-pad.
Pad-making machine. W. Dichmann. No. 987,440; Mar. 21; Sp. p. 3551; Gaz. vol. 164; p. 633.
Pad-stuffing mechanism. J. C. Collett and N. T. Lause. No. 981,615; Jan. 17; Sp. p. 3238; Gaz. vol. 162; p. 550.
Paddle-wheel. P. R. de la Seda y Acosta. No. 1,012,163; Dec. 19; Sp. p. 3979; Gaz. vol. 173; p. 686.
Paddle-wheel, Feathering. G. A. Keene. No. 1,010,434; Dec. 5; Sp. p. 61; Gaz. vol. 173; p. 13.
Paddle-wheel for boat propulsion. C. F. Boorman. No. 992,154; May 16; Sp. p. 2813; Gaz. vol. 166; p. 524.
Padlock. E. H. Cosgrove. No. 980,608; Jan. 3; Sp. p. 929; Gaz. vol. 162; p. 150.
Padlock. G. M. Miller. No. 981,784; Jan. 17; Sp. p. 3575; Gaz. vol. 162; p. 607.
Padlock. J. J. Murphy. No. 983,637; Feb. 7; Sp. p. 813; Gaz. vol. 163; p. 130.
Padlock. D. E. Sage and F. N. Maes. No. 986,595; Mar. 14; Sp. p. 1784; Gaz. vol. 164; p. 316.
Padlock. T. O. Moe. No. 988,127; Mar. 28; Sp. p. 5056; Gaz. vol. 164; p. 897.
Padlock. H. G. Collins. No. 993,032; May 23; Sp. p. 4727; Gaz. vol. 166; p. 860.
Padlock. H. Hanflig. No. 999,990; Aug. 8; Sp. p. 1594; Gaz. vol. 169; p. 301.
Padlock. A. W. Dowe. No. 1,003,718; Sept. 19; Sp. p. 3346; Gaz. vol. 170; p. 598.
Padlock. F. J. Lewis. No. 1,005,852; Oct. 17; Sp. p. 2812; Gaz. vol. 171; p. 512.
Padlock. F. W. Mews. No. 1,008,979; Nov. 14; Sp. p. 3009; Gaz. vol. 172; p. 502.
Padlock. F. Soley. No. 1,011,872; Dec. 12; Sp. p. 3297; Gaz. vol. 173; p. 548.
Padlock, Combination-. W. A. Bailey. No. 985,495; Feb. 28; Sp. p. 4869; Gaz. vol. 163; p. 864.
Padlock, Combination-. D. L. Lawson. No. 995,879; June 20; Sp. p. 3909; Gaz. vol. 167; p. 679.
Padlock, Keyless. E. Krajdocha. No. 980,798; Jan. 3; Sp. p. 1323; Gaz. vol. 162; p. 213.
Padlock, Permutation-. I. Williams. No. 985,718; Feb. 28; Sp. p. 5368; Gaz. vol. 163; p. 940.
Padlock, Permutation-. W. C. Maloz. No. 999,460; Aug. 1; Sp. p. 523; Gaz. vol. 169; p. 92.
Padlock, Permutation-. P. Wayda. No. 1,001,104; Aug. 22; Sp. p. 4128; Gaz. vol. 169; p. 750.
Padlock, Permutation-. E. M. O. Descalles. No. 1,006,366; Oct. 17; Sp. p. 3974; Gaz. vol. 171; p. 692.
Pail. H. E. Kerr. No. 991,321; May 2; Sp. p. 1065; Gaz. vol. 166; p. 178.
Pail and heater, Combined lunch. G. B. Hunter. No. 982,273; Jan. 24; Sp. p. 4637; Gaz. vol. 162; p. 805.
Pail attachment. A. N. Barrett. No. 1,006,623; Oct. 24; Sp. p. 4569; Gaz. vol. 171; p. 814.
Pail attachment, Milk-. L. T. Herbold, Jr. No. 985,030; Feb. 21; Sp. p. 3795; Gaz. vol. 163; p. 670.
Pail attachment, Milk-. W. Jones. No. 999,796; Aug. 8; Sp. p. 1198; Gaz. vol. 169; p. 235.
Pail attachment, Milking-. G. A. Brown. No. 992,480; May 16; Sp. p. 3559; Gaz. vol. 166; p. 637.
Pail-bottom. C. F. Long. No. 998,105; July 18; Sp. p. 3277; Gaz. vol. 168; p. 591.
Pail-cover fastener, Metal-. R. Austin. No. 1,004,841; Oct. 3; Sp. p. 641; Gaz. vol. 171; p. 104.
Pail cover, Milk-. W. R. Butner. No. 1,009,646; Nov. 21; Sp. p. 4459; Gaz. vol. 172; p. 769.
Pail, Covered milk-. J. E. Brown. No. 1,005,687; Oct. 10; Sp. p. 2463; Gaz. vol. 171; p. 422.
Pail, Dinner-. W. A. Edwards. No. 985,020; Feb. 21; Sp. p. 3778; Gaz. vol. 163; p. 666.
Pail, Disinfecting garbage-. D. and H. H. Goldman. No. 984,272; Feb. 14; Sp. p. 2231; Gaz. vol. 163; p. 377.
Pail, filter, and strainer, Combination milk. W. Jones. No. 1,005,432; Oct. 10; Sp. p. 1879; Gaz vol. 171; p. 333.
Pail-hanger. W. F. Weathers. No. 986,660; Mar. 14; Sp. p. 1926; Gaz. vol. 164; p. 339.
Pail, Milk-. W. T. Frazier, E. H. Brewster, and J. M. Hopfenbeck. No. 992,953; May 23; Sp. p. 4566; Gaz. vol. 166; p. 833.
Pail, Milk-. L. R. Steel. No. 995,415; June 13; Sp. p. 2868; Gaz. vol. 167; p. 487.
Pail, Milk-. E. Fink. No. 1,003,726; Sept. 19; Sp. p. 2364; Gaz. vol. 170; p. 601.
Pail, Oyster-shipping. F. M. Elledge. No. 1,001,128; Aug. 22; Sp. p. 4177; Gaz. vol. 169; p. 764.
Pail, Sanitary milk-. O. S. Williams. No. 983,337; Feb. 7; Sp. p. 170; Gaz. vol. 163; p. 30.
Pails or cans, Appliance for ash. J. Kohlmann. No. 996,774; July 4; Sp. p. 347; Gaz. vol. 168; p. 59.
Pails, Strainer-top for milk-. F. Ansley. No. 989,752; Apr. 18; Sp. p. 3125; Gaz. vol. 165; p. 549.
Paint. M. J. Waugh. No. 981,902; Jan. 17; Sp. p. 3851; Gaz. vol. 162; p. 649.
Paint. M. J. Waugh. No. 987,605; Mar. 21, Sp. p. 3872; Gaz. vol. 164; p. 690.
Paint. M. J. Waugh. No. 987,606; Mar. 21; Sp. p. 3873; Gaz. vol. 164; p. 690.
Paint. M. J. Waugh. No. 987,607; Mar. 21; Sp. p. 3874; Gaz. vol. 164; p. 690.
Paint. M. J. Waugh. No. 987,608; Mar. 21; Sp. p. 3876; Gaz. vol. 164; p. 690.
Paint and pigment. M. Herisson. No. 992,355; May 16; Sp. p. 3300; Gaz. vol. 166; p. 594.
Paint and scale remover. R. Archer. No. 1,004,617; Oct. 3; Sp. p. 154; Gaz. vol. 171; p. 26.
Paint and varnish remover. J. S. Patty. No. 982,524; Jan. 24; Sp. p. 5193; Gaz. vol. 162; p. 895.
Paint and varnish remover. C. Ellis. No. 985,404; Feb. 28; Sp. p. 4642; Gaz. vol. 163; p. 831.
Paint and varnish remover. O. E. Enell. No. 985,407; Feb. 28; Sp. p. 4646; Gaz. vol. 163; p. 832.
Paint and varnish remover. C. Ellis. No. 994,139; June 6; Sp. p. 72; Gaz. vol. 167; p. 14.
Paint compound. G. F. Smith. No. 992,609; May 16; Sp. p. 3835; Gaz. vol. 166; p. 683.
Paint, Mineral. M. D. Giffin, A. G. Lingley, T. and J. Cassidy. No. 984,477; Feb. 14; Sp. p. 2627; Gaz. vol. 163; p. 444.
Paint, Mixed. H. C. Pritchard. No. 1,000,943; Aug. 15; Sp. p. 3712; Gaz. vol. 169; p. 665.
Paint or color disperser with more than one air-nozzle. H. Mikorey. No. 999,330; Aug. 1; Sp. p. 264; Gaz. vol. 169; p. 48.
Paint or varnish remover. C. Ellis. No. 985,405; Feb. 28; Sp. p. 4643; Gaz. vol. 163; p. 832.
Paint package, Ceramic-. F. L. Sleeper. No. 1,009,449; Nov. 21; Sp. p. 4096; Gaz. vol. 172; p. 706.
Paint-screening apparatus. R. L. Holliday. No. 1,012,134; Dec. 19; Sp. p. 3919; Gaz. vol. 173; p. 677.
Paint, Submarine. H. Terrisse. No 1,012,177; Dec. 19; Sp. p. 4012; Gaz. vol. 173; p. 691.
Paints and the like, Manufacture of vehicles for. F. H. Walker and C. E. Sohn. No. 999,611; Aug. 1; Sp. p. 816; Gaz. vol. 169; p. 143.
Paints, Making. A. S. Ramage. No. 1,004,078; Sept. 26; Sp. p. 4198; Gaz. vol. 170; p. 750.
Paints, Making. A. S. Ramage. No. 1,008,434; Nov. 14; Sp. p. 1815; Gaz. vol. 172; p. 315.
Painter's and decorator's scraper. G. Rasmesen, Jr. No. 1,011,489; Dec. 12; Sp. p. 2452; Gaz. vol. 173; p. 417.
Painter's and decorator's scraper. G. Rasmesen, Jr. No. 1,011,490; Dec. 12; Sp. p. 2453; Gaz. vol. 173; p. 418.

Painter's guard. R. D. Kenyon and L. P. Roys. No. 1,001,532; Aug. 22; Sp. p. 4972; Gaz. vol. 169; p. 897.
Painter's jack. E. Shepherd. No. 982,306; Jan. 24; Sp. p. 4727; Gaz. vol. 162; p. 817.
Painter's pothook. R. C. Ryals. No. 991,651; May 9; Sp. p. 1771; Gaz. vol. 166; p. 324.
Painting apparatus. G. H. Fischer. No. 991,709; May 9; Sp. p. 1912; Gaz. vol. 166; p. 344.
Painting-machine. J. W. Harris and J. R. Welch. No. 990,436; Apr. 25; Sp. p. 4657; Gaz. vol. 165; p. 818.
Pajamas. G. A. Ford. No. 984,422; Feb. 14; Sp. p. 2516; Gaz. vol. 163; p. 425.
Palate, Artificial. T. W. Brophy. No. 1,012,980; Dec. 26; Sp. p. 5765; Gaz. vol. 173; p. 1010.
Palette, Painter's. L. Reusche. No. 1,009,995; Nov. 28; Sp. p. 5195; Gaz. vol. 172; p. 933.
Pallet laying and elevating machine. B. C. Heater. No. 1,009,411; Nov. 21; Sp. p. 4010; Gaz. vol. 172; p. 693.
Pan: *See* Ash-pan; Baking-pan; Bed-pan; Cake-pan; Drip-pan; Dust-pan; Evaporating-pan; Flash-pan; Frying-pan; Locomotive ash-pan; Saucepan; Street-cleaning pan; Vacuum-pan.
Pan. E. Kempshall. No. 1,012,862; Dec. 26; Sp. p. 5488; Gaz. vol. 173; p. 971.
Pan and plate lifter. W. J. Wadsworth. No. 1,009,604; Nov. 21; Sp. p. 4394; Gaz. vol. 172; p. 757.
Pan cleaning and greasing machine. G. W. Walk. No. 997,347; July 11; Sp. p. 1588; Gaz. vol. 168; p. 287.
Pan cover, Frying-. S. B. Thomas. No. 984,318; Feb. 14; Sp. p. 2317; Gaz. vol. 163; p. 392.
Pan-embossing means, Bread-. E. Katzinger. No. 984,009; Feb. 14; Sp. p. 1658; Gaz. vol. 163; p. 286.
Pan-lifter. I. Key. No. 993,253; May 23; Sp. p. 5183; Gaz. vol. 166; p. 931.
Pan-remover. H. Armstrong. No. 980,735; Jan. 3; Sp. p. 1198; Gaz. vol. 162; p. 192.
Panel-board support, Adjustable. W. Wurdack. No. 1,012,957; Dec. 26; Sp. p. 5717; Gaz. vol. 173; p. 1003.
Panel construction. W. J. Klemm. No. 986,013; Mar. 7; Sp. p. 559; Gaz. vol. 164; p. 89.
Panel-raising machine. J. F. Wolvin. No. 984,407; Feb. 14; Sp. p. 2484; Gaz. vol. 163; p. 421.
Panel-sanding machine. J. W. Kroeze. No. 998,351; July 18; Sp. p. 3831; Gaz. vol. 168; p. 680.
Pantograph. L. Klenk. No. 982,608; Jan. 24; Sp. p. 5347; Gaz. vol. 162; p. 921.
Paper. K. E. Rogers. No. 989,425; Apr. 11; Sp. p. 2400; Gaz. vol. 165; p. 405.
Paper and cardboard, Feeding mechanism for. C. H. Heywood and D. E. Travis. No. 1,000,090; Aug. 8; Sp. p. 1854; Gaz. vol. 169; p. 335.
Paper and fiber material, Machine for making a compound. E. Claviez. No. 983,266; Feb. 7; Sp. p. 13; Gaz. vol. 163; p. 5.
Paper and like bags, Manufacture of. E. Robinson, W. J. Benwell, E. C. Groves, and G. Harvey. No. 985,285; Feb. 28; Sp. p. 4404; Gaz. vol. 163; p. 792.
Paper and like bags, Manufacture of. E. Robinson, W. J. Benwell, E. C. Groves, and G. Harvey. No. 1,003,658; Sept. 19; Sp. p. 3207; Gaz. vol. 170; p. 577.
Paper and preparing the same, Cleaning-. J. R. Rentz. No. 995,904; June 20; Sp. p. 3960; Gaz. vol. 167; p. 687.
Paper and the like, Machine for feeding or separating sheets of. F. W. Vickery. No. 997,025; July 4; Sp. p. 925; Gaz. vol. 168; p. 147.
Paper and the like reeling apparatus. W. Kelly. No. 995,352; June 13; Sp. p. 2725; Gaz. vol. 167; p. 466.
Paper, &c., Apparatus for treating old. A. Lannoye. No. 989,370; Apr. 11; Sp. p. 2288; Gaz. vol. 165; p. 387.
Paper-associating machine. C. D. Curry. No. 982,038; Jan. 17; Sp. p. 4169; Gaz. vol. 162; p. 696.
Paper-associating machines, Feeding mechanism for. C. D. Curry. No. 982,039; Jan. 17; Sp. p. 4176; Gaz. vol. 162; p. 696.
Paper bag. J. F. Ames. No. 998,319; July 18; Sp. p. 3766; Gaz. vol. 168; p. 669.
Paper-bag filling and closing machine. E. Jagenberg. No. 981,765; Jan. 17; Sp. p. 3540; Gaz. vol. 162; p. 600.
Paper-bag holding and opening device. G. Rhoades. No. 991,245; May 2; Sp. p. 892; Gaz. vol. 166; p. 151.
Paper-bag machine. C. S. Jackson. No. 983,825; Feb. 7; Sp. p. 1220; Gaz. vol. 163; p. 194.
Paper-bag machine. W. A. Lorenz. No. 995,473; June 20; Sp. p. 2998; Gaz. vol. 167; p. 535.
Paper-bag machine. J. Merritt. No. 995,477; June 20; Sp. p. 3014; Gaz. vol. 167; p. 537.
Paper-bag machine. H. Smithwick. No. 997,336; July 11; Sp. p. 1562; Gaz. vol. 168; p. 283.
Paper-bag machine. J. Froehlich. No. 1,007,856; Nov. 7; Sp. p. 491; Gaz. vol. 172; p. 73.
Paper-bag-making machine. G. Townsend. No. 989,667; Apr. 18; Sp. p. 2949; Gaz. vol. 165; p. 520.
Paper-board, Corrugated. J. N. Hahn. No. 997,994; July 18; Sp. p. 3015; Gaz. vol. 168; p. 551.
Paper-board, Machine for making double-faced corrugated. F. M. Busald. No. 999,627; Aug. 1; Sp. p. 844; Gaz. vol. 169; p. 148.
Paper-board-making machine. J. J. Hinde. No. 1,005,836; Oct. 17; Sp. p. 2775; Gaz. vol. 171; p. 505.
Paper-board-making machine, Multiple-ply-. R. M. Scanlan. No. 997,011; July 4; Sp. p. 895; Gaz. vol. 168; p. 142.
Paper-board, Scoring. G. R. Wyman. No. 1,000,139; Aug. 8; Sp. p. 1959; Gaz. vol. 169; p. 352.
Paper, boards, and the like from pulp, Machine for manufacturing. H. Gaara. No. 983,700; Feb. 7; Sp. p. 959; Gaz. vol. 163; p. 152.
Paper-body can or receptacle. F. Rudolph. No. 992,388; May 16; Sp. p. 3369; Gaz. vol. 166; p. 607.
Paper box. L. W. Keyer, Jr. No. 986,721; Mar. 14; Sp. p. 2043; Gaz. vol. 164; p. 358.
Paper box. J. R. Myers. No. 992,683; May 16; Sp. p. 3964; Gaz. vol. 166; p. 707.
Paper box. W. C. Carlson. No. 998,746; July 25; Sp. p. 4700; Gaz. vol. 168; p. 851.
Paper box, Folding. R. B. Du Val. No. 980,931; Jan. 10; Sp. p. 1669; Gaz. vol. 162; p. 289.
Paper box, Folding. G. W. Gair, F. Broderick, and J. G. Beattie. No. 981,993; Jan. 17; Sp. p. 4082; Gaz. vol. 162; p. 681.
Paper-box machine. H. Inman. No. 996,086; June 27; Sp. p. 4331; Gaz. vol. 167; p. 785.
Paper-box machine. E. Jagenberg. No. 1,001,856; Aug. 29; Sp. p. 5677; Gaz. vol. 169; p. 1039.
Paper-box-making machine. F. A. Purchas and A. C. La May. No. 982,744; Jan. 24; Sp. p. 5623; Gaz. vol. 162; p. 966.
Paper-box-making machine. F. Giroud. No. 1,009,236; Nov. 21; Sp. p. 3600; Gaz. vol. 172; p. 628.
Paper-box-manufacturing machine. B. H. Smith. No. 1,006,885; Oct. 24; Sp. p. 5143; Gaz. vol. 171; p. 905.
Paper boxes, Machine for attaching fly-strips to. J. P. Bird. No. 997,263; July 11; Sp. p. 1401; Gaz. vol. 168; p. 258.
Paper boxes, Making. F. J. Motz. No. 996,785; July 4; Sp. p. 367; Gaz. vol. 168; p. 63.
Paper-bucket machine. W. G. Haas. No. 1,001,198; Aug. 22; Sp. p. 4305; Gaz. vol. 169; p. 785.
Paper, &c., Consuming-receptacle for. L. A. Knaus. No. 999,039; July 25; Sp. p. 5362; Gaz. vol. 168; p. 954.
Paper cup, Waterproof. E. E. Claussen and E. A. Claus. No. 1,006,722; Oct. 24; Sp. p. 4746; Gaz. vol. 171; p. 846.
Paper-cutter. F. W. Burdick. No. 988,439; Apr. 4; Sp. p. 321; Gaz. vol. 165; p. 52.
Paper-cutter. M. Faussone. No. 1,007,549; Oct. 31; Sp. p. 6594; Gaz. vol. 171; p. 1190.
Paper cutting and folding device. J. Klein. No. 1,010,437; Dec. 5; Sp. p. 67; Gaz. vol. 173; p. 14.
Paper-cutting device. C. Sola. No. 1,000,631; Aug. 15; Sp. p. 3066; Gaz. vol. 169; p. 557.
Paper-cutting machine. T. C. Dexter. No. 994,637; June 6; Sp. p. 1131; Gaz. vol. 167; p. 184.
Paper-cutting machine. N. Gray, Jr., and D. T. Wadhams. No. 996,327; June 27; Sp. p. 4912; Gaz. vol. 167; p. 866.
Paper-cutting machine. I. H. Dexter and G. H. Holdt. No. 996,469; June 27; Sp. p. 5223; Gaz. vol. 167; p. 916.
Paper-cutting machine. G. W. Watson. No. 1,001,912; Aug. 29; Sp. p. 5817; Gaz. vol. 169; p. 1058.
Paper-cutting machine. C. Seybold. No. 1,002,876; Sept. 12; Sp. p. 1559; Gaz. vol. 170; p. 271.
Paper-cutting-machine attachment. O. Larsen. No. 995,972; June 20; Sp. p. 4087; Gaz. vol. 167; p. 711.
Paper-cutting machines, Cutting apparatus for. J. R. Reynolds. No. 996,140; June 27; Sp. p. 4438; Gaz. vol. 167; p. 803.
Paper-cutting mechanism. A. Laukhuff. No. 988,578; Apr. 4; Sp. p. 622; Gaz. vol. 165; p. 100.
Paper, Device for handling sealing-. A. W. Anderson. No. 1,000,571; Aug. 15; Sp. p. 2917; Gaz. vol. 169; p. 534.
Paper doll. C. Spear. No. 1,008,619; Nov. 14; Sp. p. 2246; Gaz. vol. 172; p. 382.
Paper-drier. A. C. Rice. No. 995,721; June 20; Sp. p. 3545; Gaz. vol. 167; p. 624.
Paper-drying apparatus, Coated-. J. O. Ross and A. H. Blackburn. No. 998,206; July 18; Sp. p. 3472; Gaz. vol. 168; p. 625.
Paper drinking-cup. F. A. Weeks. No. 1,002,346; Sept. 5; Sp. p. 390; Gaz. vol. 170; p. 55.
Paper, Embossing wall-. H. W. Sanderson. No. 984,443; Feb. 14; Sp. p. 2556; Gaz. vol. 163; p. 433.
Paper exhibitor, Wall-. G. R. Williams. No. 991,922; May 9; Sp. p. 2334; Gaz. vol. 166; p. 415.
Paper-fastener. W. Howard. No. 980,525; Jan. 3; Sp. p. 768; Gaz. vol. 162; p. 123.
Paper-fastener and label-holder, Combined. I. Rittenhouse. No. 992,255; May 16; Sp. p. 3061; Gaz. vol. 166; p. 559.
Paper-feed mechanism. H. C. Gammeter. No. 990,207; Apr. 18; Sp. p. 4090; Gaz. vol. 165; p. 703.
Paper-feed mechanism, Binding-. J. A. Poirier. No. 1,007,236; Oct. 31; Sp. p. 5926; Gaz. vol. 171; p. 1081.
Paper-feeder. J. A. Keyes and T. L. Camp. No. 998,012; July 18; Sp. p. 3059; Gaz. vol. 168; p. 557.
Paper-feeding apparatus. K. Röger. No. 997,211; July 4; Sp. p. 1292; Gaz. vol. 168; p. 210.
Paper-feeding device. H. C. Gammeter. No. 998,964; July 25; Sp. p. 5195; Gaz. vol. 168; p. 928.

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Paper-feeding device. W. E. Wines. No. 999,936; Aug. 8; Sp. p. 1486; Gaz. vol. 169; p. 282.
Paper-feeding machine. F. L. Cross. No. 982,255; Jan. 24; Sp. p. 4597; Gaz. vol. 162; p. 798.
Paper-feeding machine. W. S. Amidon. No. 989,103; Apr. 11; Sp. p. 1704; Gaz. vol. 165; p. 297.
Paper-feeding machine. T. C. Dexter and W. M. McCain. No. 998,960; July 25; Sp. p. 5185; Gaz. vol. 168; p. 926.
Paper-feeding machine. T. C. Dexter and V. Garner. No. 998,961; July 25; Sp. p. 5190; Gaz. vol. 168; p. 926.
Paper-feeding machine. M. Vierengel. No. 1,000,058; Aug. 8; Sp. p. 1746; Gaz. vol. 169; p. 324.
Paper-feeding machine. J. H. Brady. No. 1,003,087; Sept. 12; Sp. p. 1999; Gaz. vol. 170; p. 344.
Paper-feeding machines, Sheet-separator for. R. Hanau. No. 986,384; Mar. 7; Sp. p. 1319; Gaz. vol. 164; p. 213.
Paper-feeding mechanism. T. W. Hebert. No. 984,273; Feb. 14; Sp. p. 2232; Gaz. vol. 163; p. 377.
Paper-feeding mechanism. F. E. Hodgkinson. No. 985,592; Feb. 28; Sp. p. 5082; Gaz. vol. 163; p. 898.
Paper-feeding mechanism. G. F. Russ. No. 991,091; May 2; Sp. p. 546; Gaz. vol. 166; p. 94.
Paper-feeding mechanism. A. Collis. No. 996,459; June 27; Sp. p. 5207; Gaz. vol. 167; p. 913.
Paper-feeding mechanism. C. Van Middlesworth. No. 1,008,289; Nov. 7; Sp. p. 1388; Gaz. vol. 172; p. 226.
Paper-feeding mechanism for machines for manufacturing envelops, &c. W. Spannuth, M. and M. R. Dünnebier. No. 987,682; Mar. 21; Sp. p. 4056; Gaz. vol. 164; p. 718.
Paper fixture, Toilet-. G. Denoon, Jr. No. 1,003,995; Sept. 26; Sp. p. 3971; Gaz. vol. 170; p. 719.
Paper folding and delivery mechanism. O. S. Gauch. No. 1,003,446; Sept. 19; Sp. p. 2743; Gaz. vol. 170; p. 503
Paper-folding machine. H. Wollheim. No. 980,385; Jan. 3; Sp. p. 423; Gaz. vol. 162; p. 73.
Paper-folding machine. J. B. Jensen. No. 980,871; Jan. 3; Sp. p. 1486; Gaz. vol. 162; p. 238.
Paper-folding machine. J. Ziegler. No. 1,003,023; Sept. 12; Sp. p. 1862; Gaz. vol. 170; p. 322.
Paper-folding machine. W. H. Cook. No. 1,006,911; Oct. 24; Sp. p. 5203; Gaz. vol. 171; p. 914.
Paper for wrapping or bundling purposes, Device for supporting and delivering. R. H. Chase, (Reissue.) No. 13,309; Nov. 7; Sp. p. 1415; Gaz. vol. 172; p. 229.
Paper-hanging device, Wall-. M. F. Randle. No. 981,687; Jan. 17; Sp. p. 3390; Gaz. vol. 162; p. 572.
Paper-hanging machine. J. V. Phillips. No. 986,310; Mar. 7; Sp. p. 1153; Gaz. vol. 164; p. 186.
Paper-hanging machine. J. Atkinson. No. 992,533; May 16; Sp. p. 3661; Gaz. vol. 166; p. 657.
Paper-holder. B. F. Peetz, N. W. Thompson, and H. S. McDanel. No. 980,669; Jan. 3; Sp. p. 1077; Gaz. vol. 162; p. 171.
Paper holder and cutter, Roll-. H. B. Wallace. No. 1,011,681; Dec. 12; Sp. p. 2901; Gaz. vol. 173; p. 485.
Paper holder and cutter, Toilet-. J. S. Juline. No. 1,005,228; Oct. 10; Sp. p. 1415; Gaz. vol. 171; p. 259.
Paper in the preparation of imitation stained glass, Treating. W. Fritzsche. No. 1,010,038; Nov. 28; Sp. p. 5296; Gaz. vol. 172; p. 949.
Paper keg, barrel, box, &c. M. Lachman. No. 1,012,867; Dec. 26; Sp. p. 5496; Gaz. vol. 173; p. 972.
Paper-machine. R. J. Scovill and W. E. Brown. No. 985,376; Feb. 28; Sp. p. 4582; Gaz. vol. 163; p. 822.
Paper-machine feeding and drying apparatus. C. E. Pope. No. 992,688; May 16; Sp. p. 3975; Gaz. vol. 166; p. 709.
Paper, Machine for feeding and delivering sheets of. A. F. Dawes, P. C. Olsen, and A. Day. No. 981,538; Jan. 10; Sp. p. 3072; Gaz. vol. 162; p. 502.
Paper, Machine for making corrugated. A. Pacyna. No. 995,083; June 13; Sp. p. 2178; Gaz. vol. 167; p. 378.
Paper, Machine for making deckle and thin edged. J. W. Moore. No. 1,008,609; Nov. 14; Sp. p. 2227; Gaz. vol. 172; p. 379.
Paper, Machine for making double-faced corrugated. A. Pacyna. No. 995,084; June 13; Sp. p. 2180; Gaz. vol. 167; p. 378.
Paper-machines, Couch-roll mechanism for. P. R. Thom. No. 983,326; Feb. 7; Sp. p. 146; Gaz. vol. 163; p. 26.
Paper machines, Double-facer for corrugated-. J. Dunfee. No. 982,176; Jan. 17; Sp. p. 4425; Gaz. vol. 162; p. 741.
Paper-machines, Raising felt-press for. F. Banning and F. Kunkel. No. 991,126; May 2; Sp. p. 633; Gaz. vol. 166; p. 108.
Paper-machines, Suction-roll for. B. B. Farnham. No. 1,000,391; Aug. 15; Sp. p. 2510; Gaz. vol. 169; p. 469.
Paper, Making. D. A. Smith and J. P. Mann. No. 992,694; May 16; Sp. p. 3987; Gaz. vol. 166; p. 711.
Paper, Making. P. Weston. No. 1,008,228; Nov. 7; Sp. p. 1255; Gaz. vol. 172; p. 205.
Paper-making. W. H. Howes. No. 995,602; June 20; Sp. p. 3303; Gaz. vol. 167; p. 582.
Paper-making machine. W. C. Nash. No. 982,845; Jan. 31; Sp. p. 5850; Gaz. vol. 162; p. 1030.
Paper-making machine. J. A. White. No. 989,461; Apr. 11; Sp. p. 2469; Gaz. vol. 165; p. 418.
Paper-making machine. D. A. Smith and J. P. Mann. No. 992,693; May 16; Sp. p. 3985; Gaz. vol. 166; p. 711.
Paper-making machine. D. A. Smith and J. P. Mann. No. 992,695; May 16; Sp. p. 3989; Gaz. vol. 166; p. 712.
Paper-making machine. H. L. Kutter. No. 993,692; May 30; Sp. p. 6169; Gaz. vol. 166; p. 1116.
Paper-making machines and the like, Annealing device for. R. H. Rogers. No. 996,428; June 27; Sp. p. 5155; Gaz. vol. 167; p. 903.
Paper, Manufacture of. W. Curtis, Jr. No. 1,001,822; Aug. 29; Sp. p. 5598; Gaz. vol. 169; p. 1027.
Paper-manufacturing machine, Toilet-. H. Liebeck. No. 999,375; Aug. 1; Sp. p. 366; Gaz. vol. 169; p. 64.
Paper mass for industrial purposes, Manufacture of a resistive. S. R. Riegler. No. 1,001,446; Aug. 22; Sp. p. 4820; Gaz. vol. 169; p. 869.
Paper, means and method of demagnetizing. F. R. Craig. No. 993,034; May 23; Sp. p. 4731; Gaz. vol. 166; p. 861.
Paper, Means for stripping wall-. F. B. Jackson. No. 989,608; Apr. 18; Sp. p. 2830; Gaz. vol. 165; p. 500.
Paper, Method of and machine for manufacturing. O. F. Håkansson. No. 1,001,521; Aug. 22; Sp. p. 4944; Gaz. vol. 169; p. 893.
Paper-mills, Beater-roll for. A. R. Willis and C. D. Mahoney. No. 1,001,599; Aug. 22; Sp. p. 5117; Gaz. vol. 169; p. 920.
Paper packages, Machine for forming. W. Barrett. No. 981,607; Jan. 17; Sp. p. 3221; Gaz. vol. 162; p. 547.
Paper perforator, Wall-. T. J. Nash. No. 981,464; Jan. 10; Sp. p. 2940; Gaz. vol. 162; p. 477.
Paper, Preparing fibrous materials for the manufacture of. G. D. Burton. No. 982,170; Jan. 17; Sp. p. 4412; Gaz. vol. 162; p. 739.
Paper press, Waste-. L. R. Hazen. No. 1,003,739; Sept. 19; Sp. p. 3392; Gaz. vol. 170; p. 605.
Paper-pulp apparatus. T. Harvey. No. 983,441; Feb. 7; Sp. p. 387; Gaz. vol. 163; p. 64.
Paper-pulp, Making. B. F. A. Saylor. No. 1,004,473; Sept. 26; Sp. p. 5022; Gaz. vol. 170; p. 884.
Paper receptacles, Coating. C. F. Jenkins. No. 985,901; Mar. 7; Sp. p. 310; Gaz. vol. 164; p. 50.
Paper receptacles, Machine for making. J. T. Bond. No. 984,067; Feb. 14; Sp. p. 1782; Gaz. vol. 163; p. 306.
Paper receptacles, Mechanism for making. T. Allatt. No. 982,780; Jan. 31; Sp. p. 5708; Gaz. vol. 162; p. 1008.
Paper-reclaiming machine. H. A. Dorr. No. 1,012,615; Dec. 26; Sp. p. 4914; Gaz. vol. 173; p. 885.
Paper-removing apparatus, Wall-. J. Caldwell. No. 991,826; May 9; Sp. p. 2145; Gaz. vol. 166; p. 382.
Paper-removing device, Wall-. G. Ayres. No. 992,536; May 16; Sp. p. 3674; Gaz. vol. 166; p. 658.
Paper-roll clip attachment. W. H. Hull, G. L. Cutler, and A. A. Bauman. No. 997,822; July 11; Sp. p. 2619; Gaz. vol. 168; p. 450.
Paper-roll holder and cutter. R. P. Hendrickson. No. 984,916; Feb. 21; Sp. p. 3581; Gaz. vol. 163; p. 631.
Paper-roll lock-block. J. L. Orr. No. 1,008,924; Nov. 14; Sp. p. 2879; Gaz. vol. 172; p. 484.
Paper-rolls, Clutch for. W. A. Lounsberry. No. 1,001,056; Aug. 22; Sp. p. 4018; Gaz. vol. 169; p. 739.
Paper sheets and the like, Fastening. G. P. Bump. No. 1,009,644; Nov. 21; Sp. p. 4456; Gaz. vol. 172; p. 768.
Paper sheets, Machine for the manufacture of. F. E. Keyes. No. 986,993; Mar. 14; Sp. p. 2597; Gaz. vol. 164; p. 449.
Paper sheets or the like, Device for cutting. L. Werner and F. Trinks. No. 984,054; Feb. 14; Sp. p. 1756; Gaz. vol. 163; p. 302.
Paper shot-shell. R. G. Clyne. No. 1,006,828; Oct. 24; Sp. p. 5009; Gaz. vol. 171; p. 885.
Paper, &c., sizing composition. C. Ellis. No. 1,007,681; Nov. 7; Sp. p. 45; Gaz. vol. 172; p. 10.
Paper slitter and rewinder. S. M. Langston. No. 1,009,756; Nov. 28; Sp. p. 4708; Gaz. vol. 172; p. 854.
Paper-slotting machine. H. G. McPike, Jr., and H. B. Harlow. No. 1,002,296; Sept. 5; Sp. p. 253; Gaz. vol. 170; p. 34.
Paper-sticking mechanism, Gummed-. E. W. Werden. No. 991,400; May 2; Sp. p. 1224; Gaz. vol. 166; p. 204.
Paper-stock-refining apparatus. G. D. Ryther. No. 1,000,628; Aug. 15; Sp. p. 3059; Gaz. vol. 169; p. 556.
Paper-storage box, Sensitized-. G. C. Brown. No. 987,952; Mar. 28; Sp. p. 4695; Gaz. vol. 164; p. 839.
Paper-towel holder. C. C. Willis. No. 998,561; July 18; Sp. p. 4239; Gaz. vol. 168; p. 751.
Paper-treating mechanism. C. W. Mears. No. 1,004,181; Sept. 26; Sp. p. 4438; Gaz. vol. 170; p. 785.
Paper-trimming device. A. C. Ingels. No. 988,783; Apr. 4; Sp. p. 1058; Gaz. vol. 165; p. 169.
Paper-trimming machines, Cutting-block for. E. L. Lindsey. No. 1,005,439; Oct. 10; Sp. p. 1899; Gaz. vol. 171; p. 335.
Paper-tube-forming machine. M. Schubert. No. 987,829; Mar. 28; Sp. p. 4372; Gaz. vol. 164; p. 796.
Paper-tube machinery. C. F. Jenkins. No. 984,002; Feb. 14; Sp. p. 1644; Gaz. vol. 163; p. 284.
Paper-tube-making machine. F. E. Keyes. No. 986,994; Mar. 14; Sp. p. 2601; Gaz. vol. 164; p. 449.
Paper-tube-seam clamp. H. R. Heyl. No. 1,002,689; Sept. 5; Sp. p. 1124; Gaz. vol. 170; p. 169.
Paper tubes and the like, Machine for curing laminated. W. R. Seigle. No. 1,005,335; Oct. 10; Sp. p. 1669; Gaz. vol. 171; p. 299.

Alphabetical list of inventions—Continued.

Paper tubes, Machine for closing the ends of. F. Dutcher. No. 1,012,530; Dec. 19; Sp. p. 4720; Gaz. vol. 173; p. 810.
Paper-tying machine. S. C. Cox. No. 1,000,995; Aug. 22; Sp. p. 3872; Gaz. vol. 169; p. 717.
Paper vessel. C. T. Bloomer. No. 996,746; July 4; Sp. p. 292; Gaz. vol. 168; p. 51.
Paper vessel. C. T. Bloomer. No. 1,004,551; Oct. 3; Sp. p. 2; Gaz. vol. 171; p. 3.
Paper-vessel closure. C. F. Jenkins. No. 993,170; May 23; Sp. p. 5020; Gaz. vol. 166; p. 906.
Paper vessel, Folding. A. M. Klin. No. 992,210; May 16; Sp. p. 2923; Gaz. vol. 166; p. 544.
Paper vessels, Apparatus for manufacture of. E. Z. Taylor. No. 987,928; Mar. 28; Sp. p. 4610; Gaz. vol. 164; p. 830.
Paper, Wall-. R. B. Griffin. No. 986,054; Mar. 7; Sp. p. 638; Gaz. vol. 164; p. 103.
Paper, Wall-. R. B. Griffin. (Reissue.) No. 13,267; July 11; Sp. p. 2887; Gaz. vol. 168; p. 492.
Paper, Wall-. J. A. Ross. No. 1,009,790; Nov. 28; Sp. p. 4780; Gaz. vol. 172; p. 865.
Paper-watermarking apparatus. W. K. Trotman. No. 984,618; Feb. 21; Sp. p. 2977; Gaz. vol. 163; p. 528.
Paper-winder. A. Gauthier. No. 1,004,640; Oct. 3; Sp. p. 194; Gaz. vol. 171; p. 34.
Paper-winding machine. S. Waring. No. 999,352; Aug. 1; Sp. p. 312; Gaz. vol. 169; p. 56.
Papers or cardboards, Machine for manufacturing corrugated. C. Thiébaut. No. 990,080; Apr. 18; Sp. p. 3813; Gaz. vol. 165; p. 661.
Papers, Producing. W. H. Howes. No. 987,678; Mar. 21; Sp. p. 4049; Gaz. vol. 164; p. 717.
Parachute. J. Burns. No. 996,058; June 27; Sp. p. 4274; Gaz. vol. 167; p. 776.
Parachute. A. B. Mayes. No. 1,009,766; Nov. 28; Sp. p. 4735; Gaz. vol. 172; p. 858.
Parasol and umbrella cover. J. W. Lewis. No. 1,006,240; Oct. 17; Sp. p. 3696; Gaz. vol. 171; p. 650.
Parcel collecting and distributing system. M. C. Schwab. No. 995,379; June 13; Sp. p. 2783; Gaz. vol. 167; p. 474.
Parcel-holder. E. C. Hedgpeth. No. 990,868; May 2; Sp. p. 94; Gaz. vol. 166; p. 17.
Parer and slicer, Vegetable. W. Gallihugh. No. 984,475; Feb. 14; Sp. p. 2624; Gaz. vol. 163; p. 443.
Parer, Fruit-. W. S. Dixon. No. 989,896; Apr. 18; Sp. p. 3433; Gaz. vol. 165; p. 598.
Parer, Orange-. F. G. Mower. No. 1,008,555; Nov. 14; Sp. p. 2093; Gaz. vol. 172; p. 358.
Parer, Potato-. O. G. Sealock. No. 982,098; Jan. 17; Sp. p. 4293; Gaz. vol. 162; p. 715.
Paring and slicing knife. F. O. Jaques, Jr. No. 1,008,599; Nov. 14; Sp. p. 2208; Gaz. vol. 172; p. 376.
Paring apparatus. W. H. Boutell. No. 987,108; Mar. 21; Sp. p. 2809; Gaz. vol. 164; p. 517.
Paring-machine. F. B. Pease. No. 984,843; Feb. 21; Sp. p. 3443; Gaz. vol. 163; p. 608.
Parquetry-scraping machine, Portable. H. Hecht. No. 989,601; Apr. 18; Sp. p. 2818; Gaz. vol. 165; p. 498.
Parting compound. E. C. Krueger and J. W. Mann. No. 996,590; June 27; Sp. p. 5464; Gaz. vol. 167; p. 956.
Partition, Folding. J. W. Wildman. No. 1,008,685; Nov. 14; Sp. p. 2396; Gaz. vol. 172; p. 404.
Partition-stud, Plaster-board. W. S. Connell. No. 999,752; Aug. 8; Sp. p. 1112; Gaz. vol. 169; p. 220.
Party-line ringing-key. R. H. Manson. No. 985,820; Mar. 7; Sp. p. 102; Gaz. vol. 164; p. 22.
Passenger-recorder. H. Yager. No. 990,091; Apr. 18; Sp. p. 3839; Gaz. vol. 165; p. 665.
Passenger-recorder and station-indicator, Combined. I. M. Reed. No. 992,593; May 16; Sp. p. 3809; Gaz. vol. 166; p. 678.
Passenger-register. E. W. Werden. No. 1,012,948; Dec. 26; Sp. p. 5703; Gaz. vol. 173; p. 1000.
Paste-jar. A. G. Auchu. No. 1,000,484; Aug. 15; Sp. p. 2710; Gaz. vol. 169; p. 503.
Paster for wrappers and the like. W. P. Sargent. No. 1,008,616; Nov. 14; Sp. p. 2242; Gaz. vol. 172; p. 381.
Pastes, Drying edible. F. M. Gregg. No. 1,007,940; Nov. 7; Sp. p. 662; Gaz. vol. 172; p. 103.
Pasteurization. C. H. Loew. No. 1,004,885; Oct. 3; Sp. p. 749; Gaz. vol. 171; p. 120.
Pasteurizer. J. M. Burnap. No. 985,139; Feb. 28; Sp. p. 4033; Gaz. vol. 163; p. 742.
Pasteurizer. B. D. Pinkney. No. 994,192; June 6; Sp. p. 189; Gaz. vol. 167; p. 33.
Pasteurizer and cooler. J. R. McPherson and F. Smith. No. 983,561; Feb. 7; Sp. p. 675; Gaz. vol. 163; p. 104.
Pasteurizer-basket covers, Mechanism for closing. A. H. Wehmiller and J. W. Dawson. No. 981,961; Jan. 17; Sp. p. 4018; Gaz. vol. 162; p. 670.
Pasteurizer equipment. T. H. J. Paul. No. 981,303; Jan. 10; Sp. p. 2590; Gaz. vol. 162; p. 421.
Pasteurizer, Regenerative. J. Willmann. No. 986,257; Mar. 7; Sp. p. 1047; Gaz. vol. 164; p. 168.
Pasteurizing. W. H. Park. No. 1,009,686; Nov. 21; Sp. p. 4543; Gaz. vol. 172; p. 783.
Pasteurizing apparatus. F. Gettelman. No. 989,141; Apr. 11; Sp. p. 1780; Gaz. vol. 165; p. 310.
Pasteurizing apparatus. A. Tiesse. No. 991,808; May 9; Sp. p. 2095; Gaz. vol. 166; p. 376.
Pasteurizing apparatus. O. Eick. No. 1,001,517; Aug. 22; Sp. p. 4937; Gaz. vol. 169; p. 892.
Pasteurizing apparatus. R. M. Cauffman. No. 1,002,499; Sept. 5; Sp. p. 715; Gaz. vol. 170; p. 105.
Pasteurizing apparatus for milk and other liquids. L. S. Pfouts. No. 990,494; Apr. 25; Sp. p. 4800; Gaz. vol. 165; p. 838.
Pasteurizing bottle beverages. A. S. Lindemann and H. F. Stock. No. 1,005,854; Oct. 17; Sp. p. 2815; Gaz. vol. 171; p. 512.
Pasteurizing liquid food and drink products in glass containers. J. P. Cabanne. No. 996,209; June 27; Sp. p. 4636; Gaz. vol. 167; p. 827.
Pasteurizing-machine. E. J. Spink and J. A. Miller. No. 986,237; Mar. 7; Sp. p. 1005; Gaz. vol. 164; p. 161.
Pasting device, Box-. E. F. Ball. No. 982,115; Jan. 17; Sp. p. 4322; Gaz. vol. 162; p. 721.
Pasting labels, wrappers, &c., Machine for automatically. T. A. Riley. No. 1,001,304; Aug. 22; Sp. p. 4526; Gaz. vol. 169; p. 821.
Pasting machine, Tape-. H. A. Wheeler. No. 998,221; July 18; Sp. p. 3513; Gaz. vol. 168; p. 631.
Pastry cornets, Apparatus for making. S. F. Pierce. No. 1,012,274; Dec. 19; Sp. p. 4223; Gaz. vol. 173; p. 724.
Pattern: *See* Casting-pattern; Castings-pattern; Sad-iron pattern; Shoe-pattern; Skirt-pattern.
Pattern-blank. J. Rose. No. 998,039; July 18; Sp. p. 3120; Gaz. vol. 168; p. 567.
Pattern-cutting machine. C. E. Reed. No. 1,006,273; Oct. 17; Sp. p. 3760; Gaz. vol. 171; p. 661.
Pattern-display holder. P. H. Broussard. No. 1,002,639; Sept. 5; Sp. p. 1022; Gaz. vol. 170; p. 153.
Pattern-drafting device. G. H. Cardell. No. 984,347; Feb. 14; Sp. p. 2374; Gaz. vol. 163; p. 401.
Pattern mechanism. W. Bowker. No. 1,005,803; Oct. 17; Sp. p. 2691; Gaz. vol. 171; p. 493.
Pattern-plate. J. Bayer. No. 984,461; Feb. 14; Sp. p. 2596; Gaz. vol. 163; p. 439.
Pattern-plate. J. Bayer. No. 985,967; Mar. 7; Sp. p. 454; Gaz. vol. 164; p. 73.
Pattern-rack. H. Simons. No. 997,333; July 11; Sp. p. 1557; Gaz. vol. 168; p. 282.
Patterns, Composition for. O. Nygren. No. 980,888; Jan. 3; Sp. p. 1543; Gaz. vol. 162; p. 244.
Patterns on metal fabrics, Producing. R. Dollinger. No. 981,750; Jan. 17; Sp. p. 3505; Gaz. vol. 162; p. 594.
Pavement. A. E. Schutte. No. 1,001,695; Aug. 29; Sp. p. 5329; Gaz. vol. 169; p. 984.
Pavement. J. O. Wilhelm. No. 1,003,840; Sept. 19; Sp. p. 3586; Gaz. vol. 170; p. 638.
Pavement-breaking machine. E. Rynearson. No. 997,638; July 11; Sp. p. 2171; Gaz. vol. 168; p. 385.
Pavement, Composite. H. G. Jennison. No. 995,147; June 13; Sp. p. 2292; Gaz. vol. 167; p. 397.
Pavement, Machine for chopping up asphalt or like. C. E. Bathrick. No. 1,004,730; Oct. 3; Sp. p. 394; Gaz. vol. 171; p. 66.
Pavements, Apparatus for building illuminating-. S. Zacharias. No. 997,533; July 11; Sp. p. 1938; Gaz. vol. 168; p. 347.
Pavements, Making. C. Davis. No. 984,801; Feb. 21; Sp. p. 3364; Gaz. vol. 163; p. 594.
Paving, Armored. P. P. McMenamin. No. 992,573; May 16; Sp. p. 3749; Gaz. vol. 166; p. 671.
Paving, Bituminous. G. P. Hemstreet. No. 1,000,520; Aug. 15; Sp. p. 2792; Gaz. vol. 169; p. 515.
Paving-block. F. Galgano. No. 987,060; Mar. 14; Sp. p. 2727; Gaz. vol. 164; p. 471.
Paving-block. T. A. Womack. No. 1,007,621; Oct. 31; Sp. p. 6749; Gaz. vol. 171; p. 1214.
Paving-blocks, Manufacture of compressed asphalt. W. S. Wilkinson. No. 1,007,833; Nov. 7; Sp. p. 429; Gaz. vol. 172; p. 65.
Paving-blocks, Manufacturing compressed asphalt. G. E. Whitney. No. 1,007,832; Nov. 7; Sp. p. 425; Gaz. vol. 172; p. 64.
Paving, Compound for forming. D. Crockett. No. 984,543; Feb. 21; Sp. p. 2813; Gaz. vol. 163; p. 502.
Paving, Interlocking armored. P. P. McMenamin. No. 992,574; May 16; Sp. p. 3750; Gaz. vol. 166; p. 671.
Paving material, Apparatus for and process of laying. W. Bayley. No. 992,538; May 16; Sp. p. 3677; Gaz. vol. 166; p. 659.
Paving material, Apparatus for preparing. H. J. Rufli. No. 990,782; Apr. 25; Sp. p. 5425; Gaz. vol. 165; p. 935.
Paving-tool. A. W. Shroyer. No. 985,214; Feb. 28; Sp. p. 4236; Gaz. vol. 163; p. 769.
Paving work, Machine for use in street-. C. E. Bathrick. No. 990,513; Apr. 25; Sp. p. 4848; Gaz. vol. 165; p. 845.
Pawl-and-rack mechanism for couches. T. B. Laycock. No. 981,287; Jan. 10; Sp. p. 2549; Gaz. vol. 162; p. 416.
Peach extract and making same. E. G. Ressencourt. No. 1,001,555; Aug. 22; Sp. p. 5021; Gaz. vol. 169; p. 905.
Peanut-digger. T. J. Whittington. No. 1,010,555; Dec. 5; Sp. p. 336; Gaz. vol. 173; p. 54.
Peanut-picker. J. W. Fielding. No. 985,575; Feb. 28; Sp. p. 5044; Gaz. vol. 163; p. 892.
Peanut-roaster. L. Rosenkranz. No. 1,004,472; Sept. 26; Sp. p. 5021; Gaz. vol. 170; p. 883.
Peanut shelling or hulling machine. W. Matzat. No. 983,384; Feb. 7; Sp. p. 273; Gaz. vol. 163; p. 46.

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Peanut-whipper. A. W. Poole. No. 995,176; June 13; Sp. p. 2355; Gaz. vol. 167; p. 408.
Peanuts, Treating. M. Wilkins. No. 984,334; Feb. 14; Sp. p. 2348; Gaz. vol. 163; p. 397.
Peat-burner. F. Moench. No. 1,000,620; Aug. 15; Sp. p. 3046; Gaz. vol. 169; p. 553.
Peat-dredging machine. W. Wielandt. No. 996,898; July 4; Sp. p. 619; Gaz. vol. 168; p. 101.
Peat into blocks, Machine for forming. W. L. Shepard and H. J. Wickham. No. 980,685; Jan. 3; Sp. p. 1104; Gaz. vol. 162; p. 176.
Peat plant. L. B. Lincoln. No. 1,011,453; Dec. 12; Sp. p. 2358; Gaz. vol. 173; p. 403.
Peat, Treating. G. E. Boberg. No. 993,143; May 23; Sp. p. 4965; Gaz. vol. 166; p. 898.
Pebble or ball mill. E. P. Dargin. No. 981,983; Jan. 17; Sp. p. 4060; Gaz. vol. 162; p. 677.
Pebble-phosphate, &c., Washer for. T. Roberts. No. 997,854; July 11; Sp. p. 2681; Gaz. vol. 168; p. 460.
Pedal, Auxiliary. J. R. Tyson. No. 984,723; Feb. 21; Sp. p. 3207; Gaz. vol. 163; p. 567.
Pedal, Auxiliary. J. S. Carr and H. C. Murphy. No. 1,007,063; Oct. 31; Sp. p. 5512; Gaz. vol. 171; p. 1018.
Pedal crank-hanger. A. M. Fluharty. No. 985,335; Feb. 28; Sp. p. 4496; Gaz. vol. 163; p. 809.
Pedal-grip. I. A. Cary. No. 1,001,504; Aug. 22; Sp. p. 4913; Gaz. vol. 169; p. 888.
Pedocycle. M. Koppel. No. 999,660; Aug. 1; Sp. p. 911; Gaz. vol. 169; p. 159.
Peeler and slicer, Fruit and vegetable. D. A. Seligman. No. 991,097; May 2; Sp. p. 560; Gaz. vol. 166; p. 97.
Peeler, Vegetable-. A. C. Fast. No. 1,012,129; Dec. 19; Sp. p. 3911; Gaz. vol. 173; p. 676.
Peeler's table, Fruit-. W. C. Anderson and A. L. Duncan. No. 1,006,422; Oct. 17; Sp. p. 4082; Gaz. vol. 171; p. 712.
Peeling machine, Potato-. A. Beyer. No. 998,950; July 25; Sp. p. 5168; Gaz. vol. 168; p. 922.
Peeling machine, Potato-. S. B. Archer. No. 999,478; Aug. 1; Sp. p. 556; Gaz. vol. 169; p. 98.
Pegging-machine. B. F. Mayo. No. 988,365; Apr. 4; Sp. p. 154; Gaz. vol. 165; p. 27.
Pelt or skin stretching device. P. B. Noyes. No. 1,010,789; Dec. 5; Sp. p. 872; Gaz. vol. 173; p. 136.
Pelt-stretching frame. L. L. Lewis. No. 1,006,855; Oct. 24; Sp. p. 5073; Gaz. vol. 171; p. 894.
Pen and pencil clip. J. L. Olson. No. 993,190; May 23; Sp. p. 5055; Gaz. vol. 166; p. 912.
Pen and pencil holder. A. B. Marshel. No. 984,381; Feb. 14; Sp. p. 2441; Gaz. vol. 163; p. 413.
Pen and pencil holder. J. P. Shafer. No. 997,097; July 4; Sp. p. 1061; Gaz. vol. 168; p. 171.
Pen and pencil holder, Pocket. W. K. Fraser and G. H. Fox. No. 987,085; Mar. 14; Sp. p. 2767; Gaz. vol. 164; p. 479.
Pen, Baby-. E. A. Boardman. No. 1,009,378; Nov. 21; Sp. p. 3926; Gaz. vol. 172; p. 680.
Pen cap, Fountain-. H. A. Mason. No. 1,003,190; Sept. 12; Sp. p. 2216; Gaz. vol. 170; p. 381.
Pen, Draftsman's. J. C. Ferger. No. 1,004,400; Sept. 26; Sp. p. 4858; Gaz. vol. 170; p. 858.
Pen-extractor. H. F. Jones. No. 990,560; Apr. 25; Sp. p. 4932; Gaz. vol. 165; p. 861.
Pen feed-valve, Fountain-. G. H. Heindselman. No. 988,096; Mar. 28; Sp. p. 5010; Gaz. vol. 164; p. 888.
Pen filler, Fountain-. H. B. McKee. No. 982,283; Jan. 24; Sp. p. 4681; Gaz. vol. 162; p. 809.
Pen filler, Fountain-. H. N. Carpenter. No. 983,348; Feb. 7; Sp. p. 188; Gaz. vol. 163; p. 33.
Pen filler, Fountain-. R. W. Whitney. No. 1,005,387; Oct. 10; Sp. p. 1778; Gaz. vol. 171; p. 317.
Pen-filling apparatus, Fountain-. C. P. Beers, F. C. Randall, and E. V. Whiton. No. 1,003,169; Sept. 12; Sp. p. 2172; Gaz. vol. 170; p. 372.
Pen, Fountain-. F. M. Ashley. No. 980,899; Jan. 10; Sp. p. 1585; Gaz. vol. 162; p. 277.
Pen, Fountain-. L. I. Perry. No. 982,527; Jan. 24; Sp. p. 5197; Gaz. vol. 162; p. 896.
Pen, Fountain-. F. M. Ashley. No. 982,922; Jan. 31; Sp. p. 6031; Gaz. vol. 162; p. 1056.
Pen, Fountain-. M. S. Olsen. No. 983,165; Jan. 31; Sp. p. 6533; Gaz. vol. 162; p. 1136.
Pen, Fountain-. F. W. Vaughn, Jr. No. 984,116; Feb. 14; Sp. p. 1875; Gaz. vol. 163; p. 322.
Pen, Fountain-. J. H. Shunk, Jr. No. 984,710; Feb. 21; Sp. p. 3177; Gaz. vol. 163; p. 562.
Pen, Fountain-. H. W. Wood. No. 988,237; Mar. 28; Sp. p. 5262; Gaz. vol. 164; p. 933.
Pen, Fountain-. C. Petersen. No. 989,041; Apr. 11; Sp. p. 1574; Gaz. vol. 165; p. 276.
Pen, Fountain-. G. S. Parker. No. 990,288; Apr. 25; Sp. p. 4285; Gaz. vol. 165; p. 764.
Pen, Fountain-. H. B. Levy. No. 991,520; May 9; Sp. p. 1480; Gaz. vol. 166; p. 277.
Pen, Fountain-. R. F. Van Winkle. No. 995,307; June 13; Sp. p. 2598; Gaz. vol. 167; p. 450.
Pen, Fountain-. W. R. Mulock. No. 996,937; July 4; Sp. p. 707; Gaz. vol. 168; p. 115.
Pen, Fountain-. M. F. Skidmore. No. 999,407; Aug. 1; Sp. p. 423; Gaz. vol. 169; p. 75.
Pen, Fountain-. L. J. Farrell. No. 999,440; Aug. 1; Sp. p. 487; Gaz. vol. 169; p. 85.
Pen, Fountain-. W. A. Houston. No. 999,648; Aug. 1; Sp. p. 886; Gaz. vol. 169; p. 154.
Pen, Fountain-. F. M. Ashley. No. 1,000,319; Aug. 8; Sp. p. 2334; Gaz. vol. 169; p. 412.
Pen, Fountain-. J. W. Carlin. No. 1,002,497; Sept. 5; Sp. p. 712; Gaz. vol. 170; p. 104.
Pen, Fountain-. J. Blair. No. 1,006,050; Oct. 17; Sp. p. 3245; Gaz. vol. 171; p. 581.
Pen, Fountain-. O. C. Wold. No. 1,009,612; Nov. 21; Sp. p. 4407; Gaz. vol. 172; p. 759.
Pen-handle and attachment therefor for erasing and other purposes. E. J. Kehoe. No. 989,505; Apr. 11; Sp. p. 2554; Gaz. vol. 165; p. 433.
Pen-nib. M. E. Turner. No. 989,451; Apr. 11; Sp. p. 2446; Gaz. vol. 165; p. 414.
Pen or the like, Fountain-. R. E. Decker. No. 1,003,437; Sept. 19; Sp. p. 2724; Gaz. vol. 170; p. 499.
Pen, Ruling-. R. Namiki. No. 992,234; May 16; Sp. p. 2996; Gaz. vol. 166; p. 552.
Pen, Self-filler fountain-. J. Sinnott. No. 1,001,225; Aug. 22; Sp. p. 4358; Gaz. vol. 169; p. 793.
Pen, Self-filling fountain-. J. Ullrich. No. 991,764; May 9; Sp. p. 2002; Gaz. vol. 166; p. 360.
Pen, Self-filling fountain-. J. A. Vogelmann. No. 1,007,619; Oct. 31; Sp. p. 6746; Gaz. vol. 171; p. 1213.
Pen, Training-. E. G. Stone. No. 988,519; Apr. 4; Sp. p. 492; Gaz. vol. 165; p. 78.
Pens in pockets, Device for holding fountain-. A. Napolitano. No. 982,984; Jan. 31; Sp. p. 6161; Gaz. vol. 162; p. 1076.
Penholder. J. A. Baldwin. No. 981,358; Jan. 10; Sp. p. 2714; Gaz. vol. 162; p. 440.
Penholder. J. H. Lovell. No. 982,184; Jan. 17; Sp. p. 4442; Gaz. vol. 162; p. 744.
Penholder. J. H. Berg. No. 988,851; Apr. 4; Sp. p. 1186; Gaz. vol. 165; p. 189.
Penholder. E. A. Ableman. No. 991,813; May 9; Sp. p. 2112; Gaz. vol. 166; p. 378.
Penholder. A. Reinikka. No. 992,987; May 23; Sp. p. 4631; Gaz. vol. 166; p. 845.
Penholder. F. W. Wright. No. 998,443; July 18; Sp. p. 4012; Gaz. vol. 168; p. 712.
Penholder. W. C. Stapel and A. Johannes. No. 1,007,250; Oct. 31; Sp. p. 5952; Gaz. vol. 171; p. 1086.
Penholder. A. V. Ray. No. 1,010,072; Nov. 28; Sp. p. 5364; Gaz. vol. 172; p. 961.
Penholder attachment. J. W. Harmon. No. 1,003,358; Sept. 12; Sp. p. 2565; Gaz. vol. 170; p. 441.
Penholder, Double. G. F. Boesser. No. 989,481; Apr. 11; Sp. p. 2508; Gaz. vol. 165; p. 425.
Penholder, Folding. F. Splettstosser. No. 999,605; Aug. 1; Sp. p. 806; Gaz. vol. 169; p. 141.
Penholder, Reservoir-. G. R. Hughes. No. 994,000; May 30; Sp. p. 6784; Gaz. vol. 166; p. 1218.
Penman's guide. G. A. Reynolds and P. C. Ten Eyck. No. 988,816; Apr. 4; Sp. p. 1123; Gaz. vol. 165; p. 179.
Pencil. C. W. Boman. No. 986,896; Mar. 14; Sp. p. 2428; Gaz. vol. 164; p. 420.
Pencil. C. A. Gaiser. No. 991,967; May 9; Sp. p. 2415; Gaz. vol. 166; p. 430.
Pencil. H. A. Veazie. No. 1,012,765; Dec. 26; Sp. p. 5234; Gaz. vol. 173; p. 937.
Pencil calendar and clip. M. R. Moffitt. No. 985,051; Feb. 21; Sp. p. 3839; Gaz. vol. 163; p. 678.
Pencil-case, Adjustable. P. Stöckel. No. 988,399; Apr. 4; Sp. p. 237; Gaz. vol. 165; p. 38.
Pencil, Cerographic. A. Reimann and L. Schneider. No. 987,169; Mar. 21; Sp. p. 2978; Gaz. vol. 164; p. 541.
Pencil-holder. R. E. Kendall. No. 982,504; Jan. 24; Sp. p. 5153; Gaz. vol. 162; p. 888.
Pencil-holder. A. B. Coffin. No. 1,003,032; Sept. 12; Sp. p. 1884; Gaz. vol. 170; p. 325.
Pencil-holder. M. P. Hermann. No. 1,007,693; Nov. 7; Sp. p. 88; Gaz. vol. 172; p. 14.
Pencil-holder. J. H. Robinson. No. 1,010,179; Nov. 28; Sp. p. 5562; Gaz. vol. 172; p. 996.
Pencil, Lead-. C. Kaiser. No. 995,068; June 13; Sp. p. 2148; Gaz. vol. 167; p. 373.
Pencil-pointer. F. B. Canode. No. 1,008,949; Nov. 14; Sp. p. 2947; Gaz. vol. 172; p. 492.
Pencil-protector and paper-cutter, Combined. A. Bippart. No. 1,002,630; Sept. 5; Sp. p. 1008; Gaz. vol. 170; p. 150.
Pencil-sharpener. S. W. Ito. No. 986,987; Mar. 14; Sp. p. 2590; Gaz. vol. 164; p. 447.
Pencil-sharpener. F. A. Eastman. No. 988,698; Apr. 4; Sp. p. 869; Gaz. vol. 165; p. 140.
Pencil-sharpener. F. A. Beckett. No. 992,749; May 23; Sp. p. 4109; Gaz. vol. 166; p. 760.
Pencil-sharpener. A. Bertram. No. 995,764; June 20; Sp. p. 3655; Gaz. vol. 167; p. 632.
Pencil-sharpener. H. Rolle. No. 997,741; July 11; Sp. p. 2418; Gaz. vol. 168; p. 421.
Pencil-sharpener. J. J. Jones. No. 1,004,435; Sept. 26; Sp. p. 4951; Gaz. vol. 170; p. 870.
Pencil-sharpener. C. A. Gaiser. No. 1,005,018; Oct. 3; Sp. p. 985; Gaz. vol. 171; p. 164.
Pencil-sharpener. J. D. Schmidt. No. 1,005,329; Oct. 10; Sp. p. 1662; Gaz. vol. 171; p. 297.

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Pencil-sharpener. L. Hayne. No. 1,008,716; Nov. 14; Sp. p. 2456; Gaz. vol. 172; p. 415.
Pencil-sharpener. J. M. Butcher. No. 1,010,853; Dec. 5; Sp. p. 1019; Gaz. vol. 173; p. 158.
Pencil-sharpeners, Pencil-holding means for. C. C. Spengler. No. 998,044; July 18; Sp. p. 3129; Gaz. vol. 168; p. 569.
Pencil-tip. J. W. Robertson. No. 1,010,319; Nov. 28; Sp. p. 5850; Gaz. vol. 172; p. 1042.
Pencils, pens, and the like, Holder for. B. B. Shook. No. 1,004,093; Sept. 26; Sp. p. 4231; Gaz. vol. 170; p. 754.
Pencils, Treating wood for. S. H. Crocker. No. 997,275; July 11; Sp. p. 1427; Gaz. vol. 168; p. 263.
Pendent switch, Two-button. F. C. De Reamer. No. 980,926; Jan. 10; Sp. p. 1663; Gaz. vol. 162; p. 288.
Pentachlorobenzaldehyde. M. Weiler. No. 998,140; July 18; Sp. p. 3346; Gaz. vol. 168; p. 603.
Pentoxid of phosphorus and calcium silicate, Making. S. Peacock. No. 997,086; July 4; Sp. p. 1042; Gaz. vol. 168; p. 168.
Perambulator. M. Braham. No. 989,561; Apr. 18; Sp. p. 2721; Gaz. vol. 165; p. 485.
Perambulator. W. T. Fields. No. 1,011,935; Dec. 19; Sp. p. 3464; Gaz. vol. 173; p. 606.
Perambulator or go-cart, Folding. A. E. McGill. No. 1,006,493; Oct. 24; Sp. p. 4268; Gaz. vol. 171; p. 767.
Perambulators, Rocking arrangement for. G. Blume. No. 980,588; Jan. 3; Sp. p. 892; Gaz. vol. 162; p. 144.
Perambulators, &c., Stop-action for. J. Phalp. No. 995,480; June 20; Sp. p. 3023; Gaz. vol. 167; p. 538.
Perch, Bird and fowl. H. F. Seeberger. No. 992,071; May 9; Sp. p. 2610; Gaz. vol. 166; p. 464.
Perch, Chicken-. A. Elder and W. B. Moudy. No. 999,636; Aug. 1; Sp. p. 864; Gaz. vol. 169; p. 151.
Perch, Poultry-. F. Shay. No. 984,036; Feb. 14; Sp. p. 1714; Gaz. vol. 163; p. 295.
Percolator. J. R. Holley. No. 988,268; Mar. 28; Sp. p. 5330; Gaz. vol. 164; p. 943.
Percolator. J. R. Holley. No. 994,398; June 6; Sp. p. 623; Gaz. vol. 167; p. 106.
Percolator. J. J. O'Mara. No. 997,845; July 11; Sp. p. 2663; Gaz. vol. 168; p. 457.
Percolator. J. R. Holley. No. 1,008,267; Nov. 7; Sp. p. 1334; Gaz. vol. 172; p. 218.
Percolator. J. Piaseczny. No. 1,008,861; Nov. 14; Sp. p. 2756; Gaz. vol. 172; p. 464.
Percolator. T. L. Ferrall. No. 1,009,142; Nov. 21; Sp. p. 3360; Gaz. vol. 172; p. 594.
Percolator, Cereal-. G. Lake. No. 1,008,602; Nov. 14; Sp. p. 2212; Gaz. vol. 172; p. 377.
Percolator, Coffee-. H. C. Johnson. No. 988,470; Apr. 4; Sp. p. 386; Gaz. vol. 165; p. 62.
Percolator, Coffee-. E. Aborn. No. 1,005,096; Oct. 3; Sp. p. 1120; Gaz. vol. 171; p. 189.
Percolator-cover. C. F. Smith. No. 980,352; Jan. 3; Sp. p. 340; Gaz. vol. 162; p. 62.
Percolator-pot. G. E. Savage. No. 992,262; May 16; Sp. p. 3080; Gaz. vol. 166; p. 561.
Percolator-pot and stand. E. A. Gutermann. No. 985,997; Mar. 7; Sp. p. 530; Gaz. vol. 164; p. 84.
Percussion-tool. J. Thiele. No. 1,001,707; Aug. 29; Sp. p. 5362; Gaz. vol. 169; p. 988.
Percussive tool, Power-operated. C. H. Haeseler. No. 994,743; June 13; Sp. p. 1413; Gaz. vol. 167; p. 262.
Percussive tool, Power-operated. C. H. Haeseler. No. 1,004,874; Oct. 3; Sp. p. 707; Gaz. vol. 171; p. 115.
Perforating and winding machine, Strip. F. H. Pierpont. No. 980,997; Jan. 10; Sp. p. 1878; Gaz. vol. 162; p. 312.
Perforating device, Paper-. B. F. Berry. No. 1,000,228; Aug. 8; Sp. p. 2150; Gaz. vol. 169; p. 382.
Perforating-machine. A. J. Swing. No. 983,254; Jan. 31; Sp. p. 6730; Gaz. vol. 162; p. 1167.
Perforating-machine. M. H. Norton. No. 983,756; Feb. 7; Sp. p. 1069; Gaz. vol. 163; p. 171.
Perforating-machine. J. Powers. No. 992,246; May 16; Sp. p. 3030; Gaz. vol. 166; p. 556.
Perforating-machine. G. A. Housam. No. 995,868; June 20; Sp. p. 3888; Gaz. vol. 167; p. 675.
Perforating-machine. J. R. Peirce. No. 998,631; July 25; Sp. p. 4423; Gaz. vol. 168; p. 809.
Perforating-machine. A. E. Fahrman. No. 1,009,396; Nov. 21; Sp. p. 3979; Gaz. vol. 172; p. 687.
Perforating-machine feed mechanism. F. M. Leavitt. No. 1,010,157; Nov. 28; Sp. p. 5517; Gaz. vol. 172; p. 989.
Perforating-machines, Web-guiding attachment for. J. S. Bancroft and M. C. Indahl. No. 989,555; Apr. 18; Sp. p. 2707; Gaz. vol. 165; p. 483.
Perforator. S. H. Wiberg. No. 987,201; Mar. 21; Sp. p. 3054; Gaz. vol. 164; p. 553.
Perforator. L. N. Meadows. No. 989,627; Apr. 18; Sp. p. 2868; Gaz. vol. 165; p. 507.
Perforator. A. L. Day. No. 1,003,993; Sept. 26; Sp. p. 3968; Gaz. vol. 170; p. 719.
Perfume-dispensing apparatus. C. M. Lockard. No. 999,324; Aug. 1; Sp. p. 251; Gaz. vol. 169; p. 46.
Perfume mixture containing artificial musk, Solid. A. Stapler. No. 1,000,852; Aug. 15; Sp. p. 3524; Gaz. vol. 169; p. 634.
Periscope. F. L. G. Kollmorgen. No. 1,006,230; Oct. 17; Sp. p. 3663; Gaz. vol. 171; p. 645.
Permutation-lock for milk-cans. S. Peter. No. 992,587; May 16; Sp. p. 3790; Gaz. vol. 166; p. 676.
Permutation-lock, Post-office. J. J. Murphy. No. 988,649; Apr. 4; Sp. p. 774; Gaz. vol. 165; p. 123.
Perspiration-absorbent. I. Baskin, J. Hoffman, and E. Master. No. 980,398; Jan. 3; Sp. p. 447; Gaz. vol. 162; p. 78.
Pessary, Wire spring-stem. G. B. Rowell. No. 982,996; Jan. 31; Sp. p. 6194; Gaz. vol. 162; p. 1080.
Petroleum and other volatile liquids, Process and apparatus for the rectification of crude. E. Guillaume. No. 996,081; June 27; Sp. p. 4319; Gaz. vol. 167; p. 783.
Petroleum, Breaking up and separating the gaseous liquid and solid constituents of crude. L. W. Brown. No. 994,100; May 30; Sp. p. 6987; Gaz. vol. 166; p. 1253.
Petroleum from moisture, bases, and sand, Method of and means for separating crude. R. G. Jones. No. 1,005,977; Oct. 17; Sp. p. 3094; Gaz. vol. 171; p. 556.
Petroleum, Treatment of. J. A. Dubbs. No. 1,002,570; Sept. 5; Sp. p. 872; Gaz. vol. 170; p. 129.
Petroleums, Apparatus for refining. M. J. Trumble. No. 1,002,474; Sept. 5; Sp. p. 667; Gaz. vol. 170; p. 96.
Petticoat, Self-fitting. W. and S. Epstein. No. 1,001,940; Aug. 29; Sp. p. 5880; Gaz. vol. 169; p. 1067.
Pharmaceutical preparation. F. von Arlt. No. 991,261; May 2; Sp. p. 930; Gaz. vol. 166; p. 157.
Pharmaceutical product. W. Schoeller and W. Schrauth. No. 1,012,923; Dec. 26; Sp. p. 5619; Gaz. vol. 173; p. 991.
Pharmaceutical product from the suprarenal glands and obtaining the same. W. Ohliger. No. 1,003,646; Sept. 19; Sp. p. 3180; Gaz. vol. 170; p. 573.
Phenolphthalein diisovalerate. H. Vieth. No. 998,726; July 25; Sp. p. 4643; Gaz. vol. 168; p. 843.
Phonograms, Molding-machine for cylindrical. B. F. Philpot. No. 999,183; July 25; Sp. p. 5622; Gaz. vol. 168; p. 1000.
Phonograph. G. H. Underhill. No. 980,459; Jan. 3; Sp. p. 604; Gaz. vol. 162; p. 100.
Phonograph. W. W. McCauley. No. 983,155; Jan. 31; Sp. p. 6513; Gaz. vol. 162; p. 1133.
Phonograph. E. M. Turner. No. 983,183; Jan. 31; Sp. p. 6560; Gaz. vol. 162; p. 1142.
Phonograph. P. Weber. No. 985,716; Feb. 28; Sp. p. 5365; Gaz. vol. 163; p. 939.
Phonograph. S. T. E. and J. E. White. No. 993,931; May 30; Sp. p. 6633; Gaz. vol. 166; p. 1195.
Phonograph. C. O. Hays. No. 999,645; Aug. 1; Sp. p. 881; Gaz. vol. 169; p. 153.
Phonograph. C. O. Hays. No. 999,646; Aug. 1; Sp. p. 883; Gaz. vol. 169; p. 153.
Phonograph. W. H. Miller. No. 1,002,074; Aug. 29; Sp. p. 6140; Gaz. vol. 169; p. 1110.
Phonograph. E. L. Aiken. No. 1,002,479; Sept. 5; Sp. p. 679; Gaz. vol. 170; p. 98.
Phonograph. C. B. Repp. No. 1,003,655; Sept. 19; Sp. p. 3198; Gaz. vol. 170; p. 576.
Phonograph. J. H. J. Haines. No. 1,005,025; Oct. 3; Sp. p. 996; Gaz. vol. 171; p. 166.
Phonograph. F. L. Dyer and F. D. Lewis. No. 1,010,355; Nov. 28; Sp. p. 5924; Gaz. vol. 172; p. 1054.
Phonograph attachment. C. A. Rumble. No. 991,090; May 2; Sp. p. 545; Gaz. vol. 166; p. 94.
Phonograph-cabinet. C. A. Cooper. No. 997,905; July 11; Sp. p. 2799; Gaz. vol. 168; p. 479.
Phonograph-horn. M. G. Graham. No. 1,002,205; Aug. 29; Sp. p. 6401; Gaz. vol. 169; p. 1153.
Phonograph-horn. P. Weber. No. 1,010,333; Nov. 28; Sp. p. 5883; Gaz. vol. 172; p. 1047.
Phonograph-horn crane. P. Weber. No. 998,218; July 18; Sp. p. 3502; Gaz. vol. 168; p. 631.
Phonograph-horns or sound-amplifiers, Crane for. F. F. Metzger. No. 998,917; July 25; Sp. p. 5074; Gaz. vol. 168; p. 910.
Phonograph-record and making the same. T. Eynon. No. 1,011,421; Dec. 12; Sp. p. 2290; Gaz. vol. 173; p. 391.
Phonograph-record cabinet. P. Scholl. No. 995,487; June 20; Sp. p. 3035; Gaz. vol. 167; p. 540.
Phonograph-record cabinet. R. C. Kuhn. No. 1,004,281; Sept. 26; Sp. p. 4626; Gaz. vol. 170; p. 818.
Phonograph renderings, Arrangement for continuous. M. Couade. No. 999,097; July 25; Sp. p. 5471; Gaz. vol. 168; p. 973.
Phonograph-reproducer. F. L. Dyer. No. 985,736; Feb. 28; Sp. p. 5403; Gaz. vol. 163; p. 947.
Phonograph-reproducer. A. N. Pierman. No. 991,361; May 2; Sp. p. 1148; Gaz. vol. 166; p. 191.
Phonograph-reproducer. C. P. Carter. No. 991,424; May 2; Sp. p. 1267; Gaz. vol. 166; p. 212.
Phonograph-reproducer. T. A. Edison. No. 996,625; July 4; Sp. p. 66; Gaz. vol. 168; p. 12.
Phonograph-reproducer. H. Wolke. No. 1,007,407; Oct. 31; Sp. p. 6273; Gaz. vol. 171; p. 1142.
Phonograph stop device. P. Weber. No. 985,717; Feb. 28; Sp. p. 5366; Gaz. vol. 163; p. 940.
Phonographic records, Producing. I. Kitsee. No. 990,144; Apr. 18; Sp. p. 3949; Gaz. vol. 165; p. 681.
Phosphate, Making di-ammonium. S. Peacock. No. 995,898; June 20; Sp. p. 3948; Gaz. vol. 167; p. 684.

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Phosphate rock, Apparatus for washing and recovering fines from. H. D. Ruhm. No. 1,002,182; Aug. 29; Sp. p. 6337; Gaz. vol. 169; p. 1145.
Phosphate rock, Treating. C. N. Meriwether. No. 1,002,297; Sept. 5; Sp. p. 255; Gaz. vol. 170; p. 34.
Phosphates, Making. H. Schröder. No. 991,096; May 2; Sp. p. 557; Gaz. vol. 166; p. 97.
Phosphorus pentoxid and cementitious products, Producing. F. S. Washburn. No. 1,000,311; Aug. 8; Sp. p. 2312; Gaz. vol. 169; p. 410.
Phosphorus pentoxid and titanium compounds, Making. S. Peacock. No. 995,897; June 20; Sp. p. 3947; Gaz. vol. 167; p. 684.
Photo-cover. N. E. Bell. No. 1,006,049; Oct. 17; Sp. p. 3244; Gaz. vol. 171; p. 581.
Photo-engraving and other similar photographic reproductions, Making black and white negatives for. Z. J. Gold and W. M. Newton. No. 1,002,386; Sept. 5; Sp. p. 483; Gaz. vol. 170; p. 68.
Photo-engraving device. G. A. Le Beau and R. R. Thresher. No. 999,115; July 25; Sp. p. 5494; Gaz. vol. 168; p. 978.
Photo-engraving or photo-etching, Preparation of surfaces suitable for. A. Payne. No. 992,898; May 23; Sp. p. 4434; Gaz. vol. 166; p. 814.
Photo-exposure apparatus, Electropneumatic. K. W. Thalhammer. No. 1,000,972; Aug. 15; Sp. p. 3782; Gaz. vol. 169; p. 674.
Photograph-machine. P. V. W. Welsh. No. 1,004,122; Sept. 26; Sp. p. 4299; Gaz. vol. 170; p. 764.
Photograph-printing device. C. F. Barr and W. R. Miller. No. 983,801; Feb. 7; Sp. p. 1158; Gaz. vol. 163; p. 185.
Photograph-printograph. J. H. Banks. No. 1,008,105; Nov. 7; Sp. p. 984; Gaz. vol. 172; p. 158.
Photograph-shutter. C. C. Spinks. No. 1,003,536; Sept. 19; Sp. p. 2931; Gaz. vol. 170; p. 535.
Photographic apparatus. H. C. Huttebalie and C. Morler. No. 983,141; Jan. 31; Sp. p. 6489; Gaz. vol. 162; p. 1128.
Photographic apparatus. W. R. Schwab. No. 1,003,300; Sept. 12; Sp. p. 2446; Gaz. vol. 170; p. 421.
Photographic apparatus, Aerial. N. E. Brown. No. 1,002,897; Sept. 12; Sp. p. 1612; Gaz. vol. 170; p. 279.
Photographic apparatus, Bellows-support for. C. E. Hutchings. No. 987,232; Mar. 21; Sp. p. 3110; Gaz. vol. 164; p. 564.
Photographic apparatus, Trichromatic. F. E. Ives. No. 980,961; Jan. 10; Sp. p. 1797; Gaz. vol. 162; p. 299.
Photographic developing and fixing apparatus. F. A. Parkmire. No. 987,821; Mar. 28; Sp. p. 4357; Gaz. vol. 164; p. 793.
Photographic developing apparatus. L. A. Barrack. No. 996,198; June 27; Sp. p. 4621; Gaz. vol. 167; p. 824.
Photographic developing-tank. J. E. Thornton. No. 981,035; Jan. 10; Sp. p. 1974; Gaz. vol. 162; p. 325.
Photographic developing-tank. D. James and W. A. Peters. No. 1,000,734; Aug. 15; Sp. p. 3273; Gaz. vol. 169; p. 592.
Photographic device. W. N. Smith. No. 1,011,870; Dec. 12; Sp. p. 3295; Gaz. vol. 173; p. 547.
Photographic-film-pack adapter. J. Goddard. No. 988,872; Apr. 4; Sp. p. 1225; Gaz. vol. 165; p. 196.
Photographic films, Manufacture of. E. Brandenberger. No. 984,886; Feb. 21; Sp. p. 3519; Gaz. vol. 163; p. 622.
Photographic light screen or filter. W. E. Phillips. No. 1,003,064; Sept. 12; Sp. p. 1938; Gaz. vol. 170; p. 335.
Photographic machine. R. J. and J. A. London. No. 999,238; Aug. 1; Sp. p. 86; Gaz. vol. 169; p. 17.
Photographic negative. J. T. Clarke. No. 986,443; Mar. 14; Sp. p. 1454; Gaz. vol. 164; p. 262.
Photographic paper, Treating. J. Sury and E. Bastyns. No. 1,010,200; Nov. 28; Sp. p. 5603; Gaz. vol. 172; p. 1003.
Photographic plate. H. Doyle. No. 997,763; July 11; Sp. p. 2460; Gaz. vol. 168; p. 429.
Photographic plate. A. Herzka. No. 1,010,141; Nov. 28; Sp. p. 5493; Gaz. vol. 172; p. 984.
Photographic plate. W. S. Benson and J. Brieloff. No. 1,012,505; Dec. 19; Sp. p. 4671; Gaz. vol. 173; p. 802.
Photographic-plate rack. I. K. King. No. 1,006,486; Oct. 24; Sp. p. 4254; Gaz. vol. 171; p. 764.
Photographic plates and films for different temperatures, Determining relative times of development of. A. Watkins. No. 1,004,947; Oct. 3; Sp. p. 861; Gaz. vol. 171; p. 140.
Photographic-print cutter. C. F. Pease. No. 985,446; Feb. 28; Sp. p. 4757; Gaz. vol. 163; p. 846.
Photographic-print-handling device. J. S. Greene. No. 1,001,019; Aug. 22; Sp. p. 3941; Gaz. vol. 169; p. 725.
Photographic-print-handling device. J. S. Greene. No. 1,001,020; Aug. 22; Sp. p. 3944; Gaz. vol. 169; p. 725.
Photographic-print washer. D. C. McCandless. No. 1,002,418; Sept. 5; Sp. p. 544; Gaz. vol. 170; p. 77.
Photographic prints, Apparatus for washing. W. S. Richardson. No. 1,006,278; Oct. 17; Sp. p. 3771; Gaz. vol. 171; p. 663.
Photographic prints, &c., Device for mounting. E. L. Smith. No. 987,756; Mar. 28; Sp. p. 4216; Gaz. vol. 164; p. 770.
Photographic prints in graduated relief, Producing colored. F. E. Ives. No. 980,962; Jan. 10; Sp. p. 1800; Gaz. vol. 162; p. 300.
Photographic prints upon cylinders, Apparatus for producing. W. C. Huebner. No. 1,011,199; Dec. 12; Sp. p. 1793; Gaz. vol. 173; p. 313.
Photographic-printing apparatus. A. H. Fretter and A. C. Marsh. No. 982,357; Jan. 24; Sp. p. 4825; Gaz. vol. 162; p. 836.
Photographic-printing apparatus. H. Burke and D. James. No. 989,330; Apr. 11; Sp. p. 2205; Gaz. vol. 165; p. 375.
Photographic-printing apparatus. D W. Gray. No. 989,502; Apr. 11; Sp. p. 2549; Gaz. vol. 165; p. 432.
Photographic-printing apparatus. A. D. McCurdy. No. 994,475; June 6; Sp. p. 753; Gaz. vol. 167; p. 130.
Photographic-printing apparatus. W. F. Folmer. No. 999,216; Aug. 1; Sp. p. 47; Gaz. vol. 169; p. 10.
Photographic-printing apparatus. A. Kloss. No. 1,011,968; Dec. 19; Sp. p. 3532; Gaz. vol. 173; p. 618.
Photographic-printing attachment for gas and other burners. H. L. G. Moore. No. 1,004,294; Sept. 26; Sp. p. 4651; Gaz. vol. 170; p. 823.
Photographic printing-designs from various original pictures or patterns by means of division-lines, Means for composing. A. Brandweiner. No. 990,832; May 2; Sp. p. 7; Gaz. vol. 166; p. 4.
Photographic printing, developing, and fixing apparatus. J. Bowers. No. 1,006,428; Oct. 17; Sp. p. 4094; Gaz. vol. 171; p. 714.
Photographic-printing device. C. O. Miller. No. 1,004,670; Oct. 3; Sp. p. 254; Gaz. vol. 171; p. 44.
Photographic-printing frame. I. Foedish. No. 986,915; Mar. 14; Sp. p. 2461; Gaz. vol. 164; p. 425.
Photographic-printing machine. W. J. Harris. No. 981,558; Jan. 10; Sp. p. 3111; Gaz. vol. 162; p. 508.
Photographic-printing machine. G. A. Ley. No. 984,096; Feb. 14; Sp. p. 1839; Gaz. vol. 163; p. 316.
Photographic-printing machine. H. A. Anderson. No. 989,105; Apr. 11; Sp. p. 1707; Gaz. vol. 165; p. 298.
Photographic-printing machine. G. R. Olson. No. 994,271; June 6; Sp. p. 349; Gaz. vol. 167; p. 60.
Photographic-printing machine. G. R. Olson. No. 1,008,362; Nov. 14; Sp. p. 1619; Gaz. vol. 172; p. 291.
Photographic-printing machine, Automatic. G. W. Ferguson. No. 1,000,247; Aug. 8; Sp. p. 2181; Gaz. vol. 169; p. 388.
Photographic purposes, Developing-tank for. D. C. McCandless. No. 1,001,422; Aug. 22; Sp. p. 4781; Gaz. vol. 169; p. 861.
Photographic shutter. A. Wollensak. No. 990,509; Apr. 25; Sp. p. 4836; Gaz. vol. 165; p. 844.
Photographic shutter. W. F. Folmer. No. 994,914; June 13; Sp. p. 1821; Gaz. vol. 167; p. 320.
Photographic shutter. G. Dietz. No. 997,378; July 11; Sp. p. 1642; Gaz. vol. 168; p. 297.
Photographic shutter. A. Wollensak. No. 997,530; July 11; Sp. p. 1931; Gaz. vol. 168; p. 346.
Photographic shutter. J. Goddard. No. 1,009,501; Nov. 21; Sp. p. 4201; Gaz. vol. 172; p. 723.
Photographic shutters, Means for regulating the speed of. W. Hunt and W. Taylor. No. 1,009,251; Nov. 21; Sp. p. 4240; Gaz. vol. 172; p. 730.
Photographic silver pictures, Toning blue. P. Rehländer. No. 1,009,100; Nov. 21; Sp. p. 3281; Gaz. vol. 172; p. 581.
Photographic tray. W. G. Rice. No. 991,023; May 2; Sp. p. 407; Gaz. vol. 166; p. 70.
Photographing and developing apparatus, Combined. F. E. Oiler. No. 983,926; Feb. 14; Sp. p. 1468; Gaz. vol. 163; p. 259.
Photography, Apparatus for color. R. Berthon. No. 992,151; May 16; Sp. p. 2808; Gaz. vol. 166; p. 523.
Photography, Lighting in. E. Mertens. No. 1,001,549; Aug. 22; Sp. p. 5002; Gaz. vol. 169; p. 902.
Photography, Manufacture of color plates or screens for color. J. H. Christensen. No. 994,977; June 13; Sp. p. 1949; Gaz. vol. 167; p. 341.
Photography, Manufacture of screens for use in color. L. D. Du Hauron and R. de Bercegol. No. 1,005,644; Oct. 10; Sp. p. 2368; Gaz. vol. 171; p. 407.
Photography, Manufacture of screens or colored surfaces for color. L. Dufay. No. 1,003,720; Sept. 19; Sp. p. 3349; Gaz. vol. 170; p. 599.
Photography, Preparing screens for color. L. D. Du Hauron and R. de Bercegol. No. 995,405; June 13; Sp. p. 2845; Gaz. vol. 167; p. 483.
Photography, Screen or film-support for use in. F. A. Fifield. No. 990,247; Apr. 25; Sp. p. 4207; Gaz. vol. 165; p. 750.
Photoprinting-machine, Automatic. G. M. Dye. No. 1,001,373; Aug. 22; Sp. p. 4686; Gaz. vol. 169; p. 846.
Photometer. D. M. Moore. No. 994,329; June 6; Sp. p. 465; Gaz. vol. 167; p. 80.
Piano. H. S. Hornbeck. No. 993,777; May 30; Sp. p. 6349; Gaz. vol. 166; p. 1145.
Piano. W. M. Bauer. No. 1,002,553; Sept. 5; Sp. p. 830; Gaz. vol. 170; p. 122.
Piano. A. A. Huseby. No. 1,008,269; Nov. 7; Sp. p. 1338; Gaz. vol. 172; p. 219.
Piano-action. R. M. Hutchinson. No. 987,723; Mar. 28; Sp. p. 4153; Gaz. vol. 164; p. 759.
Piano-action. I. Wrozina. No. 992,528; May 16; Sp. p. 3653; Gaz. vol. 166; p. 655.

Piano-action. W. C. Vogel. No. 993,478; May 30; Sp. p. 5684; Gaz. vol. 166; p. 1040.
Piano-action. J. Doyle. No. 994,700; June 6; Sp. p. 1272; Gaz. vol. 167; p. 207.
Piano-action. H. O. Clark. No. 995,439; June 20; Sp. p. 2931; Gaz. vol. 167; p. 523.
Piano-action, Pneumatic. A. G. Gulbransen. No. 991,718; May 9; Sp. p. 1935; Gaz. vol. 166; p. 347.
Piano action, Upright-. L. N. Soper. No. 1,000,762; Aug. 15; Sp. p. 3329; Gaz. vol. 169; p. 601.
Piano-actions, Hammer-supporting flange for. C. P. Blinn. No. 999,480; Aug. 1; Sp. p. 558; Gaz. vol. 169; p. 98.
Piano-actions, Lock-flange for. G. C. Snyder. No. 1,011,510; Dec. 12; Sp. p. 2496; Gaz. vol. 173; p. 425.
Piano-actions, Transposing means for. W. C. Vough. No. 981,826; Jan. 17; Sp. p. 3687; Gaz. vol. 162; p. 623.
Piano-actions, &c., Valve for pneumatic. A. J. Hobart. No. 985,033; Feb. 21; Sp. p. 3799; Gaz. vol. 163; p. 671.
Piano and phonograph, Combination player-. E. S. Votey. No. 994,489; June 6; Sp. p. 786; Gaz. vol. 167; p. 134.
Piano, Automatic. F. F. Stauffer. No. 1,000,561; Aug. 15; Sp. p. 2890; Gaz. vol. 169; p. 530.
Piano, Autopneumatic. A. J. Hobart. No. 989,152; Apr. 11; Sp. p. 1812; Gaz. vol. 165; p. 314.
Piano bellows mechanism, Pneumatic-. W. G. Betz. No. 1,012,316; Dec. 19; Sp. p. 4307; Gaz. vol. 173; p. 739.
Piano-bench. A. A. Huseby. No. 995,789; June 20; Sp. p. 3717; Gaz. vol. 167; p. 647.
Piano-bench. F. A. Noll. No. 1,010,168; Nov. 28; Sp. p. 5542; Gaz. vol. 172; p. 992.
Piano bridge-pin. C. S. Weber. No. 1,011,536; Dec. 12; Sp. p. 2560; Gaz. vol. 173; p. 434.
Piano-casing. H. Pohlmann. No. 990,062; Apr. 18; Sp. p. 3785; Gaz. vol. 165; p. 655.
Piano controlling device, Self-playing-. R. J. Bennett. No. 1,009,715; Nov. 28; Sp. p. 4623; Gaz. vol. 172; p. 840.
Piano-flanges, Spring-washer for. E. A. Mayor. No. 1,010,778; Dec. 5; Sp. p. 850; Gaz. vol. 173; p. 133.
Piano foot-rest, Adjustable. H. Schreiner. No. 1,007,980; Nov. 7; Sp. p. 735; Gaz. vol. 172; p. 115.
Piano-footboard holder. E. A. Guertin. No. 1,011,948; Dec. 19; Sp. p. 3486; Gaz. vol. 173; p. 611.
Piano-hammer, Double. F. M. Williams. No. 1,008,626; Nov. 14; Sp. p. 2260; Gaz. vol. 172; p. 384.
Piano, Interior-player. C. Warren. No. 1,011,293; Dec. 12; Sp. p. 2019; Gaz. vol. 173; p. 347.
Piano, Interior-player. M. Clark. No. 1,011,920; Dec. 19; Sp. p. 3430; Gaz. vol. 173; p. 600.
Piano-key lock. W. G. Betz. No. 984,465; Feb. 14; Sp. p. 2605; Gaz. vol. 163; p. 440.
Piano-key mounting. E. A. Mayor. No. 998,192; July 18; Sp. p. 3445; Gaz. vol. 168; p. 621.
Piano lid, Upright-. T. E. Steinway. No. 998,422; July 18; Sp. p. 3979; Gaz. vol. 168; p. 705.
Piano-pedal. L. Haas. No. 1,011,191; Dec. 12; Sp. p. 1778; Gaz. vol. 173; p. 310.
Piano-pedal attachment. H. B. Vanhook. No. 985,304; Feb. 28; Sp. p. 4443; Gaz. vol. 163; p. 799.
Piano-pedal, Auxiliary. J. R. Tyson. No. 992,522; May 16; Sp. p. 3638; Gaz. vol. 166; p. 653.
Piano pedal, Player-. W. Bedford and R. K. Thumler. No. 1,009,634; Nov. 21; Sp. p. 4442; Gaz. vol. 172; p. 765.
Piano, Player-. J. P. Caulfield. No. 995,766; June 20; Sp. p. 3659; Gaz. vol. 167; p. 639.
Piano-player. J. Carruthers. No. 1,008,009; Nov. 7; Sp. p. 789; Gaz. vol. 172; p. 125.
Piano-player actions, Accenting device for pneumatic-. J. W. Crooks. No. 1,000,377; Aug. 15; Sp. p. 2485; Gaz. vol. 169; p. 464.
Piano, Player grand. J. Hattemer. No. 993,247; May 23; Sp. p. 5175; Gaz. vol. 166; p. 930.
Piano-player, Interior. M. Clark. No. 1,009,828; Nov. 28; Sp. p. 4862; Gaz. vol. 172; p. 878.
Piano-player, Pneumatic. J. Courville. No. 1,003,237; Sept. 12; Sp. p. 2325; Gaz. vol. 170; p. 399.
Piano-player, Pneumatic. W. G. MacArthur. No. 1,003,279; Sept. 12; Sp. p. 2405; Gaz. vol. 170; p. 413.
Piano-player treadle, Automatic-. E. T. Turney. No. 1,000,463; Aug. 15; Sp. p. 2665; Gaz. vol. 169; p. 495.
Piano-players, Controlling device for pneumatic. H. S. Hornbeck. No. 987,990; Mar. 28; Sp. p. 4781; Gaz. vol. 164; p. 852.
Piano-playing attachment. W. Kirkegaard. No. 1,011,967; Dec. 19; Sp. p. 3529; Gaz. vol. 173; p. 617.
Piano-playing attachments, Controlling device for. R. W. Pain. No. 980,554; Jan. 3; Sp. p. 825; Gaz. vol. 162; p. 133.
Piano-playing attachments, Folding treadle for. R. J. Bennett. No. 984,527; Feb. 21; Sp. p. 2778; Gaz. vol. 163; p. 497.
Piano-playing attachments, Folding treadle for. R. J. Bennett. No. 984,528; Feb. 21; Sp. p. 2781; Gaz. vol. 163; p. 497.
Piano-playing attachments, Folding treadle for. E. T. Turney. No. 997,344; July 11; Sp. p. 1580; Gaz. vol. 168; p. 286.
Piano-playing attachments, Treadle for. E. T. Turney. No. 998,136; July 18; Sp. p. 3338; Gaz. vol. 168; p. 602.
Piano-playing mechanism. C. W. Atkinson. No. 1,000,359; Aug. 15; Sp. p. 2431; Gaz. vol. 169; p. 457.
Piano-playing mechanism. C. W. Atkinson. No. 1,005,793; Oct. 17; Sp. p. 2672; Gaz. vol. 171; p. 490.
Piano-playing mechanism and the like. A. R. Trist. No. 1,009,268; Nov. 21; Sp. p. 3671; Gaz. vol. 172; p. 640.
Piano-playing mechanism and the like. C. W. Atkinson. No. 1,010,567; Dec. 5; Sp. p. 369; Gaz. vol. 173; p. 58.
Piano-playing mechanism, Automatic. G. P. Brand. No. 983,422; Feb. 7; Sp. p. 343; Gaz. vol. 163; p. 58.
Piano, Pneumatic. W. G. Betz. No. 980,747; Jan. 3; Sp. p. 1215; Gaz. vol. 162; p. 195.
Piano, Pneumatic. W. G. Betz. No. 981,363; Jan. 10; Sp. p. 2721; Gaz. vol. 162; p. 442.
Piano, Pneumatic. W. G. Betz. No. 1,012,317; Dec. 19; Sp. p. 4308; Gaz. vol. 173; p. 739.
Piano sounding-board. H. Derdeyn. No. 983,125; Jan. 31; Sp. p. 6466; Gaz. vol. 162; p. 1124.
Piano string-plate. E. J. Knabe, Jr. No. 1,008,161; Nov. 7; Sp. p. 1090; Gaz. vol. 172; p. 178.
Piano tuning-hammer. C. H. Lind. No. 997,143; July 4; Sp. p. 1151; Gaz. vol. 168; p. 186.
Piano, Violin-. J. L. Warner. No. 983,012; Jan. 31; Sp. p. 6237; Gaz. vol. 162; p. 1086.
Piano-violin. H. Schlemmer. No. 985,459; Feb. 28; Sp. p. 4790; Gaz. vol. 163; p. 851.
Piano-violin. A. M. Carlsen. No. 996,614; July 4; Sp. p. 31; Gaz. vol. 168; p. 8.
Piano-violin. L. Bajde. No. 999,427; Aug. 1; Sp. p. 463; Gaz. vol. 169; p. 81.
Piano-violin, Automatic. L. Bajde. No. 991,596; May 9; Sp. p. 1658; Gaz. vol. 166; p. 305.
Pianos and organs, Transposing keyboard attachment for. P. Bialik. No. 1,004,350; Sept. 26; Sp. p. 4760; Gaz. vol. 170; p. 841.
Pianos and organs, Transposing-keyboard for. P. Bialik. No. 1,000,365; Aug. 15; Sp. p. 2461; Gaz. vol. 169; p. 460.
Pianos and similar musical instruments, Pneumatic action for. A. J. Hobart. No. 986,288; Mar. 7; Sp. p. 1103; Gaz. vol. 164; p. 177.
Pianos, Center panel for upright player-. W. A. Bein. No. 991,822; May 9; Sp. p. 2139; Gaz. vol. 166; p. 381.
Pianos, Controlling device for self-playing. R. J. Bennett. No. 992,149; May 16; Sp. p. 2804; Gaz. vol. 166; p. 522.
Pianos, Device for preventing mice entering. C. B. Hill. No. 1,011,344; Dec. 12; Sp. p. 2143; Gaz. vol. 173; p. 366.
Pianos, Expression device for. J. P. Hulder. No. 1,000,174; Aug. 8; Sp. p. 2032; Gaz. vol. 169; p. 364.
Pianos, Expression-lever for automatic. A. F. Larson. No. 996,775; July 4; Sp. p. 348; Gaz. vol. 168; p. 59.
Pianos, &c., Fall-board for. E. T. Turney. No. 998,135; July 18; Sp. p. 3337; Gaz. vol. 168; p. 601.
Pianos, Fall-board for horizontal grand. N. D. Hosley. No. 998,178; July 18; Sp. p. 3419; Gaz. vol. 168; p. 617.
Pianos, Flush pedal-door for player-. C. D. Kanouse. No. 997,197; July 4; Sp. p. 1257; Gaz. vol. 168; p. 204.
Pianos, Guard for pedal-openings of. H. B. Vanhook. No. 997,163; July 4; Sp. p. 1203; Gaz. vol. 168; p. 194.
Pianos, Lever-hider for player-. C. F. Reeps. No. 1,011,646; Dec. 12; Sp. p. 2846; Gaz. vol. 173; p. 475.
Pianos or the like, Attachment for. A. D. Palmer. No. 1,007,232; Oct. 31; Sp. p. 5914; Gaz. vol. 171; p. 1080.
Pianos, Pedal mechanism for automatically-operated. A. F. Larson. No. 998,185; July 18; Sp. p. 3431; Gaz. vol. 168; p. 619.
Pianos, &c., Playing apparatus for. J. F. Kelly. No. 984,677; Feb. 21; Sp. p. 3092; Gaz. vol. 163; p. 548.
Pianos, Pneumatic action for. P. Wiggen. No. 998,313; July 18; Sp. p. 3755; Gaz. vol. 168; p. 667.
Pianos, Pneumatic for automatic. W. G. Betz. No. 1,001,923; Aug. 29; Sp. p. 5838; Gaz. vol. 169; p. 1062.
Pianos, Pneumatic for automatic player-. A. G. Gulbransen. No. 998,171; July 18; Sp. p. 3401; Gaz. vol. 168; p. 614.
Pianos, Rocking lever and pedal arrangement for combination-. J. T. Mayer. No. 999,822; Aug. 8; Sp. p. 1240; Gaz. vol. 169; p. 243.
Pianos, Sliding panel for pneumatic. W. G. Betz. No. 986,621; Mar. 14; Sp. p. 1830; Gaz. vol. 164; p. 325.
Pianos, Stringing. C. S. Weber. No. 996,817; July 4; Sp. p. 447; Gaz. vol. 168; p. 74.
Pianos, Transposer for. E. Cooper. No. 1,007,067; Oct. 31; Sp. p. 5539; Gaz. vol. 171; p. 1019.
Pianos, Transposing device for player-. G. L. Thom. No. 1,010,983; Dec. 5; Sp. p. 1285; Gaz. vol. 173; p. 204.
Pianos, Tuning-pin lock for. F. W. Gotterke. No. 982,425; Jan. 24; Sp. p. 4965; Gaz. vol. 162; p. 859.
Pianos, &c., Valve for player-. L. H. Maier. No. 992,435; May 16; Sp. p. 3457; Gaz. vol. 166; p. 622.
Pianoforte. E. Berdux. No. 983,529; Feb. 7; Sp. p. 578; Gaz. vol. 163; p. 93.
Pianolas and like instruments, Lever for. W. Gervais. No. 1,010,249; Nov. 28; Sp. p. 5703; Gaz. vol. 172; p. 1020.
Pick. A. Gottvald. No. 983,859; Feb. 7; Sp. p. 1297; Gaz. vol. 163; p. 206.
Pick. J. E. Carter. No. 1,002,643; Sept. 5; Sp. p. 1027; Gaz. vol. 170; p. 154.

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Pick. G. Brendel. No. 1,008,944; Nov. 14; Sp. p. 2937; Gaz. vol. 172; p. 490.
Pick. M. Kneeland. No. 1,010,390; Nov. 28; Sp. p. 6008; Gaz. vol. 172; p. 1065.
Pick. F. S. Harrington. No. 1,010,755; Dec. 5; Sp. p. 798; Gaz. vol. 173; p. 125.
Picks and like implements, Handle-fastening for. E. A. Parnell. No. 1,000,754; Aug. 15; Sp. p. 3320; Gaz. vol. 169; p. 599.
Pickax. H. G. M. Kuhn. No. 982,832; Jan. 31; Sp. p. 5828; Gaz. vol. 162; p. 1025.
Picker: *See* Bean-picker; Cotton-picker; Fruit-picker; Hop-picker; Loom-picker; Peanut-picker.
Picker. W. Oliver. No. 983,927; Feb. 14; Sp. p. 1473; Gaz. vol. 163; p. 260.
Picker-aprons, Machine for repairing. N. Williams. No. 995,418; June 13; Sp. p. 2875; Gaz. vol. 167; p. 488.
Picker-arm. F. J. Briggs. No. 993,147; May 23; Sp. p. 4974; Gaz. vol. 166; p. 899.
Picker-check. R. Leveillee. No. 1,001,762; Aug. 29; Sp. p. 5479; Gaz. vol. 169; p. 1007.
Picker-check. S. S. Stacneck. No. 1,009,595; Nov. 21; Sp. p. 4375; Gaz. vol. 172; p. 754.
Picker-fastener. J. M. Peckham. No. 996,670; July 4; Sp. p. 150; Gaz. vol. 168; p. 26.
Picker-stick. E. H. Nabhan. No. 992,977; May 23; Sp. p. 4614; Gaz. vol. 166; p. 842.
Picker-stick check. A. E. Rhoades. No. 987,915; Mar. 28; Sp. p. 4585; Gaz. vol. 164; p. 825.
Picker-stick holder and power-adjusting device. F. P. Sleeper. No. 1,003,526; Sept. 19; Sp. p. 2908; Gaz. vol. 170; p. 531.
Picker-strap. N. Lemaire. No. 984,821; Feb. 21; Sp. p. 3405; Gaz. vol. 163; p. 600.
Picker-strap. A. Girard. No. 990,975; May 2; Sp. p. 312; Gaz. vol. 166; p. 54.
Picking mechanism, Pneumatic. E. and W. Rhodes. No. 1,007,733; Nov. 7; Sp. p. 173; Gaz. vol. 172; p. 29.
Pickling. A. Baumann. No. 1,003,320; Sept. 12; Sp. p. 2486; Gaz. vol. 170; p. 428.
Pictorial firmamental machine. O. P. Jones. No. 988,471; Apr. 4; Sp. p. 388; Gaz. vol. 165; p. 62.
Picture and other image projecting apparatus, Attachment for. F. J. Reilly. No. 994,276; June 6; Sp. p. 361; Gaz. vol. 167; p. 61.
Picture apparatus, Motion-. C. F. Jenkins. No. 1,010,370; Nov. 28; Sp. p. 5959; Gaz. vol. 172; p. 1059.
Picture apparatus, Moving-. J. A. England. No. 1,012,344; Dec. 19; Sp. p. 4371; Gaz. vol. 173; p. 748.
Picture-device attachment, Moving-. C. C. Spinks. No. 1,002,464; Sept. 5; Sp. p. 647; Gaz. vol. 170; p. 93.
Picture device, Moving-. E. W. Davis. No. 1,004,382; Sept. 26; Sp. p. 4833; Gaz. vol. 170; p. 853.
Picture-enlarging device or apparatus. L. J. Deible. No. 984,359; Feb. 14; Sp. p. 2395; Gaz. vol. 163; p. 405.
Picture-exhibiting apparatus, Moving-. E. Schneider. No. 1,006,292; Oct. 17; Sp. p. 3809; Gaz. vol. 171; p. 667.
Picture-film. F. B. Thompson. No. 987,092; Mar. 14; Sp. p. 2776; Gaz. vol. 164; p. 480.
Picture film, Moving-. F. Von Briesen. No. 1,011,564; Dec. 12; Sp. p. 2642; Gaz. vol. 173; p. 444.
Picture-film reel, Moving-. C. J. Lang. No. 1,009,673; Nov. 21; Sp. p. 4517; Gaz. vol. 172; p. 778.
Picture-films, Coating. W. A. Daniels. No. 987,437; Mar. 21; Sp. p. 3540; Gaz. vol. 164; p. 632.
Picture-frame. P. B. Littlehale. No. 999,378; Aug. 1; Sp. p. 372; Gaz. vol. 169; p. 65.
Picture-frame, Adjustable. H. Engelmohr. No. 996,915; July 4; Sp. p. 657; Gaz. vol. 168; p. 107.
Picture-frame and portfolio, Combined. S. Soletcki. No. 986,236; Mar. 7; Sp. p. 1004; Gaz. vol. 164; p. 161.
Picture-frame form. P. Duus. No. 1,000,725; Aug. 15; Sp. p. 3257; Gaz. vol. 169; p. 589.
Picture-hanger. A. Lee. No. 980,295; Jan. 3; Sp. p. 215; Gaz. vol. 162; p. 41.
Picture-hanger. W. Kohn. No. 989,612; Apr. 18; Sp. p. 2838; Gaz. vol. 165; p. 502.
Picture-hanger. G. Johnson. No. 992,203; May 16; Sp. p. 2909; Gaz. vol. 166; p. 541.
Picture-hanger. N. Jacobson. No. 1,010,633; Dec. 5; Sp. p. 522; Gaz. vol. 173; p. 82.
Picture-hanger, Adjustable. C. F. Held. No. 980,947; Jan. 10; Sp. p. 1704; Gaz. vol. 162; p. 294.
Picture machine, Moving-. G. W. Bingham. No. 983,021; Jan. 31; Sp. p. 6257; Gaz. vol. 162; p. 1089.
Picture machine, Moving-. S. S. Giordano. No. 986,163; Mar. 7; Sp. p. 848; Gaz. vol. 164; p. 137.
Picture machine, Moving-. E. R. Yanch. No. 992,098; May 9; Sp. p. 2659; Gaz. vol. 166; p. 473.
Picture machine, Moving-. C. R. Uebelmesser. No. 994,043; May 30; Sp. p. 6871; Gaz. vol. 166; p. 1234.
Picture machine, Moving-. E. M. Wooden. No. 1,004,330; Sept. 26; Sp. p. 4718; Gaz. vol. 170; p. 834.
Picture machine, Moving-. J. A. Cameron. No. 1,005,936; Oct. 17; Sp. p. 3010; Gaz. vol. 171; p. 542.
Picture machines, Film-actuating mechanism for moving-. C. R. Uebelmesser. No. 996,952; July 4; Sp. p. 737; Gaz. vol. 168; p. 120.
Picture machines, Film-holding device for moving-. C. R. Uebelmesser. No. 994,044; May 30; Sp. p. 6873; Gaz. vol. 166; p. 1234.
Picture machines, Film-mover and shutter for motion-. V. L. Duhem. No. 995,061; June 13; Sp. p. 2131; Gaz. vol. 167; p. 370.
Picture machines, Light-shield for moving-. J. A. Cameron. No. 1,005,935; Oct. 17; Sp. p. 3007; Gaz. vol. 171; p. 542.
Picture machines, Winding mechanism for moving-. A. Wiggins. No. 980,378; Jan. 3; Sp. p. 407; Gaz. vol. 162; p. 71.
Picture machines, Winding mechanism for moving-. C. R. Uebelmesser. No. 1,001,098; Aug. 22; Sp. p. 4115; Gaz. vol. 169; p. 754.
Picture, Mechanical. P. H. Suhling. No. 1,012,747; Dec. 26; Sp. p. 5199; Gaz. vol. 173; p. 931.
Picture screens, Manufacturing moving-. P. J. Hanlon. No. 986,385; Mar. 7; Sp. p. 1324; Gaz. vol. 164; p. 213.
Picture taking and exhibiting machine. J. J. Pink. No. 986,857; Mar. 14; Sp. p. 2332; Gaz. vol. 164; p. 404.
Pictures and the like, Means for suspending. A. Colas. No. 999,961; Aug. 8; Sp. p. 1541; Gaz. vol. 169; p. 291.
Pictures, Apparatus for transmitting half-tone. H. Carbonnelle. No. 1,003,429; Sept. 19; Sp. p. 2707; Gaz. vol. 170; p. 497.
Pictures, Machine for producing flickerless moving. L. L. Thurstone. No. 982,904; Jan. 31; Sp. p. 5993; Gaz. vol. 162; p. 1050.
Pictures, Manufacture of. G. R. Butler. No. 1,000,323; Aug. 8; Sp. p. 2339; Gaz. vol. 169; p. 414.
Pictures, Tunnel and plate-holder slide for X-ray. J. R. Kelley. No. 992,205; May 16; Sp. p. 2913; Gaz. vol. 166; p. 542.
Pie-making machine. J. F. Kohler. No. 985,603; Feb. 28; Sp. p. 5103; Gaz. vol. 163; p. 902.
Pie-plate. H. W. Huddleson. No. 982,065; Jan. 17; Sp. p. 4228; Gaz. vol. 162; p. 705.
Pier construction. G. Roeth and B. W. Haskell. No. 985,371; Feb. 28; Sp. p. 4573; Gaz. vol. 163; p. 820.
Piercing-mill and the like. S. E. Diescher. No. 999,757; Aug. 8; Sp. p. 1119; Gaz. vol. 169; p. 221.
Pigment. A. Moffatt. No. 990,155; Apr. 18; Sp. p. 3974; Gaz. vol. 165; p. 686.
Pigment and making same, Inhibitive. A. S. Cushman. No. 987,965; Mar. 28; Sp. p. 4728; Gaz. vol. 164; p. 844.
Pigments, Making. A. Moffatt. No. 990,156; Apr. 18; Sp. p. 3975; Gaz. vol. 165; p. 686.
Pile. J. I. McGill. No. 1,007,717; Nov. 7; Sp. p. 143; Gaz. vol. 172; p. 24.
Pile-band, Weldless. H. A. McLaughlin. No. 993,538; May 30; Sp. p. 5812; Gaz. vol. 166; p. 1061.
Pile-cutting machine. A. Morton. No. 980,991; Jan. 10; Sp. p. 1858; Gaz. vol. 162; p. 310.
Pile-driver. A. B. Clark. No. 1,010,723; Dec. 5; Sp. p. 717; Gaz. vol. 173; p. 113.
Pile fabric, Warp. H. Dawson. No. 1,006,917; Oct. 24; Sp. p. 5213; Gaz. vol. 171; p. 916.
Pile fabric, Woven. W. V. Lowe. No. 995,693; June 20; Sp. p. 3484; Gaz. vol. 167; p. 614.
Pile for forming concrete piling, Removable. R. J. Beall, Jr. No. 999,430; Aug. 1; Sp. p. 469; Gaz. vol. 169; p. 82.
Pile-protector. C. N. Hubbard. No. 992,776; May 23; Sp. p. 4159; Gaz. vol. 166; p. 769.
Pile-protector. C. N. Hubbard. No. 1,002,847; Sept. 12; Sp. p. 1478; Gaz. vol. 170; p. 262.
Pile-puller. R. E. Green, E. Coulson, and W. J. Callahan. No. 1,011,614; Dec. 12; Sp. p. 2763; Gaz. vol. 173; p. 462.
Pile-shell. M. M. Upson. No. 990,611; Apr. 25; Sp. p. 5039; Gaz. vol. 165; p. 878.
Pile-shell and forming concrete piles. A. A. Raymond. No. 985,549; Feb. 28; Sp. p. 4994; Gaz. vol. 163; p. 883.
Pile-sinking apparatus. A. B. Clark. No. 1,005,693; Oct. 10; Sp. p. 2472; Gaz. vol. 171; p. 424.
Pile-supporter. J. S. McKee. No. 1,000,833; Aug. 15; Sp. p. 3485; Gaz. vol. 169; p. 627.
Pile-tube. J. McGranighan. No. 986,819; Mar. 14; Sp. p. 2260; Gaz. vol. 164; p. 391.
Piles and other submerged structures, Device for protecting. T. Nixon. No. 1,008,669; Nov. 14; Sp. p. 2362; Gaz. vol. 172; p. 399.
Piles, Apparatus for sinking tubular. A. B. Clark. No. 1,005,770; Oct. 10; Sp. p. 2618; Gaz. vol. 171; p. 452.
Piles, Machine for studding. G. D. Coleman. No. 995,118; June 13; Sp. p. 2231; Gaz. vol. 167; p. 388.
Piles or the like by means of gases, Apparatus for cutting. C. F. Gessert and J. W. Whitford. No. 1,000,399; Aug. 15; Sp. p. 2527; Gaz. vol. 169; p. 472.
Piling. W. Neilson. No. 1,003,777; Sept. 19; Sp. p. 3475; Gaz. vol. 170; p. 618.
Piling. W. Neilson. No. 1,003,778; Sept. 19; Sp. p. 3477; Gaz. vol. 170; p. 618.
Piling, Clutch for metallic. C. T. Evennette. No. 985,150; Feb. 28; Sp. p. 4091; Gaz. vol. 163; p. 745.
Piling, Contractible. J. C. Meem. No. 991,001; May 2; Sp. p. 367; Gaz. vol. 166; p. 63.
Piling, Interlocking metal sheet-. R. B. Pearson. No. 999,334; Aug. 1; Sp. p. 269; Gaz. vol. 169; p. 50.

Alphabetical list of inventions—Continued.

Piling, Metal. E. A. Garratt. No. 1,004,011; Sept. 26; Sp. p. 4005; Gaz. vol. 170; p. 724.
Piling, Metal. E. A. Garratt. No. 1,007,089; Oct. 31; Sp. p. 5584; Gaz. vol. 171; p. 1027.
Piling, Metal. J. I. McGill. No. 1,007,718; Nov. 7; Sp. p. 145; Gaz. vol. 172; p. 24.
Piling, Metal sheet-. M. W. Cluxton. No. 981,749; Jan. 17; Sp. p. 3503; Gaz. vol. 162; p. 594.
Piling, Metal sheet-. C. C. Conkling. No. 1,012,124; Dec. 19; Sp. p. 3896; Gaz. vol. 173; p. 674.
Piling-section, Steel. S. B. Sheldon. No. 981,018; Jan. 10; Sp. p. 1945; Gaz. vol. 162; p. 320.
Piling, Sectional or sheet. J. M. Rafter. (Reissue.) No. 13,259; June 20; Sp. p. 4234; Gaz. vol. 167; p. 736.
Piling, Sheet-. J. F. Johnston. No. 993,779; May 30; Sp. p. 6351; Gaz. vol. 166; p. 1145.
Piling, Sheet-. P. J. Latham. No. 1,001,963; Aug. 29; Sp. p. 5932; Gaz. vol. 169; p. 1075.
Piling, Sheet-. W. A. Kreidler. No. 1,007,454; Oct. 31; Sp. p. 6377; Gaz. vol. 171; p. 1157.
Piling, Steel sheet-. C. C. Conkling. No. 1,005,514; Oct. 10; Sp. p. 2051; Gaz. vol. 171; p. 361.
Pill-machine. F. M. Edwards. No. 988,082; Mar. 28; Sp. p. 4981; Gaz. vol. 164; p. 883.
Pill-making machine. J. C. Morgan. No. 989,178; Apr. 11; Sp. p. 1862; Gaz. vol. 165; p. 323.
Pill-packaging machine. O. E. Hermann and E. C. De Witt. No. 998,000; July 18; Sp. p. 3026; Gaz. vol. 168; p. 553.
Pillars, Apparatus for manufacturing. E. Niemeyer. No. 994,777; June 13; Sp. p. 1491; Gaz. vol. 167; p. 274.
Pillow-holder. E. B. Hattler. No. 1,006,750; Oct. 24; Sp. p. 4816; Gaz. vol. 171; p. 856.
Pillow-holder and body-prop, Combined. M. M. Abbot. No. 982,558; Jan. 24; Sp. p. 5252; Gaz. vol. 162; p. 906.
Pillow, Sanitary. V. Rebhun. No. 982,442; Jan. 24; Sp. p. 5019; Gaz. vol. 162; p. 867.
Pillow-support, Adjustable. H. E. Butler. No. 1,003,982; Sept. 26; Sp. p. 3939; Gaz. vol. 170; p. 715.
Pilot-coupling. E. P. Kinne. No. 1,009,974; Nov. 28; Sp. p. 5146; Gaz. vol. 172; p. 926.
Pilot-light valve. L. P. Dickey. No. 995,666; June 20; Sp. p. 3431; Gaz. vol. 167; p. 605.
Pin: *See* Barrette-pin; Belt-pin; Break-pin; Clothes-pin; Cotter-pin; Cross-head or clevis pin; Crown-pin; Cuff-pin; Hair-pin; Hat-pin; Insulator-pin; Locomotive center-pin; Safety-pin; Scarf-pin; Stick-pin; Tent-pin.
Pin. C. Kuehner. No. 985,351; Feb. 21; Sp. p. 4537; Gaz. vol. 163; p. 814.
Pin. J. E. Potter. No. 991,887; May 9; Sp. p. 2260; Gaz. vol. 166; p. 403.
Pin. C. Kuehner. No. 1,001,961; Aug. 29; Sp. p. 5930; Gaz. vol. 169; p. 1074.
Pin. F. B. Rhodes. No. 1,004,592; Oct. 3; Sp. p. 92; Gaz. vol. 171; p. 17.
Pin-attached clip. H. P. Hanson. No. 981,924; Jan. 17; Sp. p. 3912; Gaz. vol. 162; p. 657.
Pin-fastener. L. G. Francis. No. 1,011,937; Dec. 19; Sp. p. 3467; Gaz. vol. 173; p. 607.
Pin-guard. C. H. Allen. No. 986,119; Mar. 7; Sp. p. 765; Gaz. vol. 164; p. 123.
Pin-guard. A. T. Ball. No. 1,004,231; Sept. 26; Sp. p. 4531; Gaz. vol. 170; p. 802.
Pin-lifter. M. D. Mickle. No. 991,449; May 2; Sp. p. 1321; Gaz. vol. 166; p. 221.
Pin-package. L. J. Downing. No 981,541; Jan. 10; Sp. p. 3085; Gaz. vol. 162; p. 503.
Pin-points, Safety-tip for. S. J. Macomber. No. 1,008,840; Nov. 14; Sp. p. 2723; Gaz. vol. 172; p. 458.
Pin-protector. W. C. Stuckel. No. 997,474; July 11; Sp. p. 1812; Gaz. vol. 168; p. 328.
Pin-retainer. C. F. Murray and W. S. Atwood. No. 1,010,300; Nov. 28; Sp. p. 5820; Gaz. vol. 172; p. 1036.
Pin retainer, Coupling-knuckle-. C. F. Murray and W. S. Atwood. No. 1,001,428; Aug. 22; Sp. p. 4791; Gaz. vol. 169; p. 863.
Pin safety-catch. E. Morehouse. No. 986,196; Mar. 7; Sp. p. 915; Gaz. vol. 164; p. 148.
Pin safety-catch. E. Morehouse. No. 993,787; May 30; Sp. p. 6368; Gaz. vol. 166; p. 1148.
Pin-setting tool. J. B. Derfinak. No. 1,008,246; Nov. 7; Sp. p. 1293; Gaz. vol. 172; p. 211.
Pin-tumbler mechanism, Compound. C. F. Kohlberger. No. 1,009,155; Nov. 21; Sp. p. 3379; Gaz. vol. 172; p. 598.
Pins, clasps, &c., Safety attachment for. I. H. Johannes. No. 988,346; Apr. 4; Sp. p. 114; Gaz. vol. 165; p. 21.
Pins, Device for bending ends of. L. Baum. No. 985,103; Feb. 21; Sp. p. 3935; Gaz. vol. 163; p. 695.
Pins, Forming joint members for. S. Fischer. No. 1,006,472; Oct. 24; Sp. p. 4209; Gaz. vol. 171; p. 758.
Pincers, Lasting-. T. G. Plant. No. 1,001,681; Aug. 29; Sp. p. 5300; Gaz. vol. 169; p. 979.
Pineapple coring and sizing machine. C. W. Cookson. No. 1,001,931; Aug. 29; Sp. p. 5858; Gaz. vol. 169; p. 1064.
Pineapples or the like, Machine for treating. L. E. Arnold. No. 1,006,621; Oct. 24; Sp. p. 4565; Gaz. vol. 171; p. 814.
Pinene into camphene, Converting. L. Montaland. No. 999,667; Aug. 1; Sp. p. 928; Gaz. vol. 169; p. 162.
Pinochle-counter. D. F. Dodge. No. 990,640; Apr. 25; Sp. p. 5088; Gaz. vol. 165; p. 887.
Pipe: *See* Air-pipe; Blowpipe; Car brake-pipe; Cement-lined pipe; Cement, reinforced pipe; Concrete pipe; Coupling-pipe; Drain-pipe; Extension-pipe; Flexible pipe; Hose-pipe; Magazine-pipe; Organ-pipe; Sewer-pipe; Sewer and culvert pipe; Smoking-pipe; Stand-pipe; Tobacco-pipe; Tobacco-smoking pipe.
Pipe. W. C. Baxter. No. 981,910; Jan. 17; Sp. p. 3881; Gaz. vol. 162; p. 652.
Pipe. F. Cooper. No. 985,324; Feb. 28; Sp. p. 4477; Gaz. vol. 163; p. 806.
Pipe. C. H. Odenbaugh and C. A. Crary. No. 986,024; Mar. 7; Sp. p. 582; Gaz. vol. 164; p. 93.
Pipe. J. D. Burger. No. 999,626; Aug. 1; Sp. p. 843; Gaz. vol. 169; p. 147.
Pipe. J. M. Johnson. No. 1,002,405; Sept. 5; Sp. p. 519; Gaz. vol. 170; p. 73.
Pipe. E. Dannenberg. No. 1,006,916; Oct. 24; Sp. p. 5211; Gaz. vol. 171; p. 916.
Pipe and angle-cock holder, Combined train-. S. H. Campbell. No. 986,544; Mar. 14; Sp. p. 1677; Gaz. vol. 164; p. 297.
Pipe and bolt thread cutting machine. C. Bergren. No. 1,008,885; Nov. 14; Sp. p. 2805; Gaz. vol. 172; p. 472.
Pipe and conductor coupling. C. H. Kayser. No. 982,006; Jan. 17; Sp. p. 4108; Gaz. vol. 162; p. 685.
Pipe and fitting. J. F. Muller. No. 997,691; July 11; Sp. p. 2275; Gaz. vol. 168; p. 403.
Pipe and socket holder. G. W. La Voo. No. 992,887; May 23; Sp p. 4412; Gaz. vol. 166; p. 810.
Pipe attachment. T. Charles. No. 983,122; Jan. 31; Sp. p. 6463; Gaz. vol. 162; p. 1123.
Pipe attachment, Smoker's-. H. Elliott. No. 994,913; June 13; Sp. p. 1820; Gaz. vol. 167; p. 320.
Pipe, Bending. J. H. Taylor. No. 996,163; June 27; Sp. p. 4489; Gaz. vol. 167; p. 812.
Pipe bending and offsetting machine. G. J. Costello. No. 996,064; June 27; Sp. p. 4286; Gaz. vol. 167; p. 778.
Pipe-bending tool. F. R. Jacobsen. No. 985,597; Feb. 28; Sp. p. 5089; Gaz. vol. 163; p. 900.
Pipe-bends, Making U-shaped. P. Esch. No. 984,652; Feb. 21; Sp. p. 3050; Gaz. vol. 163; p. 540.
Pipe-bends, Manufacture of. F. J. Cole. No. 1,011,412; Dec. 12; Sp. p. 2275; Gaz. vol. 173; p. 388.
Pipe box, Service-. H. D. Kehr, Sr. No. 1,004,436; Sept. 26; Sp. p. 4952; Gaz. vol. 170; p. 871.
Pipe-cleaner. W. Colina and M. M. Reid. No. 986,268; Mar. 7; Sp. p. 1072; Gaz. vol. 164; p. 171.
Pipe-cleaner. J. M. Simmons. No. 999,346; Aug. 1; Sp. p. 290; Gaz. vol. 169; p. 54.
Pipe cleaner, Automatic water-. J. E. J. Edmonds. No. 1,006,187; Oct. 17; Sp. p. 3561; Gaz. vol. 171; p. 630.
Pipe-cleaning apparatus. U. S. Armstrong. No. 1,012,049; Dec. 19; Sp. p. 3723; Gaz. vol. 173; p. 647.
Pipe-cleaning machine. W. E. Clow. No. 983,980; Feb. 14; Sp. p. 1587; Gaz. vol. 163; p. 276.
Pipe-cleaning machines into pipe-lines, Device for inserting. O. B. Mueller. No. 1,006,261; Oct. 17; Sp. p. 3735; Gaz. vol. 171; p. 656.
Pipe-coil construction. L. C. Schneider. No. 1,012,284; Dec. 19; Sp. p. 4241; Gaz. vol. 173; p. 728.
Pipe-coiling machine. L. C. Schneider. No. 996,802; July 4; Sp. p. 401; Gaz. vol. 168; p. 68.
Pipe collar, Smoke-. C. Diehl. No. 1,006,448; Oct. 17; Sp. p. 4144; Gaz. vol. 171; p. 720.
Pipe connection. P. Mueller. No. 980,880; Jan. 3; Sp. p. 1504; Gaz. vol. 162; p. 241.
Pipe connection. E. B. Tyler. No. 1,006,317; Oct. 17; Sp. p. 3863; Gaz. vol. 171; p. 675.
Pipe connection, Branch. R. Ballantyne. No. 980,901; Jan. 10; Sp. p. 1589; Gaz. vol. 162; p. 278.
Pipe connection, Return-bend. J. Allan. No. 1,001,798; Aug. 29; Sp. p. 5549; Gaz. vol. 169; p. 1019.
Pipe connection, Waste-. A. Fisher. No. 990,646; Apr. 25; Sp. p. 5111; Gaz. vol. 165; p. 889.
Pipe connections, System of train-. W. A. Greenlaw. No. 1,001,588; Aug. 22; Sp. p. 5081; Gaz. vol. 169; p. 915.
Pipe-coupling. J. N. Goodall. No. 980,245; Jan. 3; Sp. p. 129; Gaz. vol. 162; p. 25.
Pipe-coupling. J. H. Allan. No. 987,683; Mar. 21; Sp. p. 4058; Gaz. vol. 164; p. 718.
Pipe-coupling. R. L. Graves. No. 991,501; May 9; Sp. p. 1436; Gaz. vol. 166; p. 270.
Pipe-coupling. W. Austin. No. 991,595; May 9; Sp. p. 1657; Gaz. vol. 166; p. 305.
Pipe-coupling. F. Robinson. No. 991,891; May 9; Sp. p. 2266; Gaz. vol. 166; p. 404.
Pipe-coupling. J. Matthews. No. 992,022; May 9; Sp. p. 2519; Gaz. vol. 166; p. 448.
Pipe-coupling. J. E. Ward. No. 997,874; July 11; Sp. p. 2724; Gaz. vol. 168; p. 467.
Pipe-coupling. F. Nielsen. No. 1,001,069; Aug. 22; Sp. p. 4047; Gaz. vol. 169; p. 744.
Pipe-coupling. M. A. Farrell. No. 1,004,004; Sept. 26; Sp. p. 3992; Gaz. vol. 170; p. 722.
Pipe-coupling. J. P. Strickler. No. 1,007,989; Nov. 7; Sp. p. 751; Gaz. vol. 172; p. 118.
Pipe-coupling. W. Glasgow. No. 1,012,073; Dec. 19; Sp. p. 3780; Gaz. vol. 173; p. 655.

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Pipe-coupling, Automatic. F. G. Williamson. No. 1,005,092; Oct. 3; Sp. p. 1111; Gaz. vol. 171; p. 188.
Pipe-coupling, Automatic. C. E. Burchfield. No. 1,009,645; Nov. 21; Sp. p. 4457; Gaz. vol. 172; p. 768.
Pipe coupling, Automatic train-. J. C. Evans. No. 982,943; Jan. 31; Sp. p. 6085; Gaz. vol. 162; p. 1063.
Pipe coupling, Automatic train-. J. Milligan, A. M. and J. T. Morton. No. 993,703; May 30; Sp. p. 6194; Gaz. vol. 166; p. 1120.
Pipe-coupling clamping-ring. L. P. Whitaker. No. 992,464; May 16; Sp. p. 3507; Gaz. vol. 166; p. 631.
Pipe-coupling clamping-ring. J. Clark. No. 999,548; Aug. 1; Sp. p. 705; Gaz. vol. 169; p. 121.
Pipe-coupling clamping-ring, Lock-bar-. J. Clark. No. 999,547; Aug. 1; Sp. p. 702; Gaz. vol. 169; p. 120.
Pipe-coupling, Detachable. F. M. Case. No. 1,005,153; Oct. 10; Sp. p. 1237; Gaz. vol. 171; p. 231.
Pipe-coupling, Flexible. W. A. Crammond. No. 1,006,830; Oct. 24; Sp. p. 5020; Gaz. vol. 171; p. 886.
Pipe-coupling, Pneumatic. J. E. Gleason. No. 995,861; June 20; Sp. p. 3875; Gaz. vol. 167; p. 673.
Pipe coupling, Reinforced-concrete-. C. H. Wilson. No. 1,003,309; Sept. 12; Sp. p. 2466; Gaz. vol. 170; p. 425.
Pipe coupling, Train-. G. E. Kelly and G. F. Royer. No. 983,239; Jan. 31; Sp. p. 6690; Gaz. vol. 162; p. 1162.
Pipe coupling, Train-. J. Fournia. No. 985,155; Feb. 28; Sp. p. 4102; Gaz. vol. 163; p. 747.
Pipe coupling, Train-. D. W. Moss and C. E. Olschner. No. 988,206; Mar. 28; Sp. p. 5203; Gaz. vol. 164; p. 923.
Pipe coupling, Train-. H. S. Harcourt. No. 989,352; Apr. 11; Sp. p. 2249; Gaz. vol. 165; p. 381.
Pipe coupling, Train-. W. Z. Pulliam and F. Van Pelt. No. 992,059; May 9; Sp. p. 2586; Gaz. vol. 166; p. 460.
Pipe coupling, Train-. E. L. Adams. No. 992,627; May 16; Sp. p. 3863; Gaz. vol. 166; p. 689.
Pipe coupling, Train-. A. Potter. No. 994,479; June 6; Sp. p. 772; Gaz. vol. 167; p. 131.
Pipe coupling, Train-. A. Metosh. No. 997,076; July 4; Sp. p. 1024; Gaz. vol. 168; p. 164.
Pipe coupling, Train-. J. W. Mooney and E. R. Kerby. No. 999,176; July 25; Sp. p. 5604; Gaz. vol. 168; p. 997.
Pipe coupling, Train-. J. B. Ramer. No. 999,869; Aug. 8; Sp. p. 1341; Gaz. vol. 169; p. 259.
Pipe coupling, Train-. E. A. Graves. No. 1,003,598; Sept. 19; Sp. p. 3083; Gaz. vol. 170; p. 556.
Pipe coupling, Train-. W. Z. Pulliam and F. Van Pelt. No. 1,009,570; Nov. 21; Sp. p. 4339; Gaz. vol. 172; p. 746.
Pipe coupling, Train-. H. N. Moore. No. 1,011,229; Dec. 12; Sp. p. 1868; Gaz. vol. 173; p. 323.
Pipe-coupling, Train-. O. C. Blair. No. 1,011,727; Dec. 12; Sp. p. 2997; Gaz. vol. 173; p. 500.
Pipe-covering. G. A. Richards. No. 1,002,932; Sept. 12; Sp. p. 1692; Gaz. vol. 170; p. 292.
Pipe-cutter. F. A. Anderson. No. 996,602; July 4; Sp. p. 3; Gaz. vol. 168; p. 3.
Pipe-cutter. R. Eck. No. 1,003,442; Sept. 19; Sp. p. 2734; Gaz. vol. 170; p. 501.
Pipe-cutter. R. Geoffroy. No. 1,006,080; Oct. 17; Sp. p. 3303; Gaz. vol. 171; p. 590.
Pipe-cutter. O. J. Erickson. No. 1,007,651; Oct. 31; Sp. p. 6811; Gaz. vol. 171; p. 1224.
Pipe-cutter, Quick-adjustable. J. H. Vinton. No. 1,012,304; Dec. 19; Sp. p. 4285; Gaz. vol. 173; p. 735.
Pipe cutting and threading tool. J. Geary. No. 1,003,961; Sept. 19; Sp. p. 3883; Gaz. vol. 170; p. 681.
Pipe-cutting machine, Automatic. D. A. Mudd. No. 986,937; Mar. 14; Sp. p. 2495; Gaz. vol. 164; p. 432.
Pipe-cutting tool. L. Toegel. No. 1,008,393; Nov. 14; Sp. p. 1714; Gaz. vol. 172; p. 301.
Pipe-die. H. J. Hunt. No. 1,011,798; Dec. 12; Sp. p. 3146; Gaz. vol. 173; p. 525.
Pipe-elbow. C. Mares. No. 997,072; July 4; Sp. p. 1017; Gaz. vol. 168; p. 163.
Pipe ends to form spigot and socket joints, Apparatus for machining. T. Harden. No. 980,775; Jan. 3; Sp. p. 1275; Gaz. vol. 162; p. 205.
Pipe-fastener. L. Zachara. No. 985,094; Feb. 21; Sp. p. 3921; Gaz. vol. 163; p. 692.
Pipe-fishing tool. E. Seibert. No. 987,832; Mar. 28; Sp. p. 4378; Gaz. vol. 164; p. 797.
Pipe-fitting. J. H. Lonskey. No. 987,807; Mar. 28; Sp. p. 4328; Gaz. vol. 164; p. 788.
Pipe-fitting. O. B. Mueller and B. B. Hodgman. No. 1,006,260; Oct. 17; Sp. p. 3734; Gaz. vol. 171; p. 656.
Pipe-flange wrench. M. Murray. No. 983,562; Feb. 7; Sp. p. 677; Gaz. vol. 163; p. 104.
Pipe-flanging machine. R. W. Stock. No. 1,004,492; Sept. 26; Sp. p. 5057; Gaz. vol. 170; p. 890.
Pipe-forcing jack. J. E. Hilgers. No. 1,002,398; Sept. 5; Sp. p. 512; Gaz. vol. 170; p. 71.
Pipe-hanger. A. Kinowski. No. 981,769; Jan. 17; Sp. p. 3549; Gaz. vol. 162; p. 602.
Pipe-hanger. L. A. Carpenter and R. Middleton. No. 992,338; May 16; Sp. p. 3263; Gaz. vol. 166; p. 588.
Pipe-hanger. I. Cowles. No. 993,510; May 30; Sp. p. 5751; Gaz. vol. 166; p. 1051.
Pipe-hanger. J. A. Warrick. No. 1,011,294; Dec. 12; Sp. p. 2021; Gaz. vol. 173; p. 348.
Pipe-hanger coupling. J. H. Postel. No. 981,470; Jan. 10; Sp. p. 2954; Gaz. vol. 162; p. 479.
Pipe holder, Faucet-. J. W. Davis. No. 1,012,063; Dec. 19; Sp. p. 3756; Gaz. vol. 173; p. 651.
Pipe-hook. F. J. Lilak. No. 996,655; July 4; Sp. p. 123; Gaz. vol. 168; p. 22.
Pipe-joint. M. H. Dudley. No. 993,661; May 30; Sp. p. 6096; Gaz. vol. 166; p. 1104.
Pipe-joint. C. Forth. No. 1,003,042; Sept. 12; Sp. p. 1901; Gaz. vol. 170; p. 328.
Pipe-joint. H. Brousseau. No. 1,005,407; Oct. 10; Sp. p. 1819; Gaz. vol. 171; p. 324.
Pipe-joint. F. H. Weatherly. No. 1,006,031; Oct. 17; Sp. p. 3197; Gaz. vol. 171; p. 574.
Pipe-joint. C. Diehl. No. 1,006,067; Oct. 17; Sp. p. 3281; Gaz. vol. 171; p. 586.
Pipe-joint. C. Forth. No. 1,007,655; Oct. 31; Sp. p. 6819; Gaz. vol. 171; p. 1226.
Pipe-joint, Ball-and-socket. J. Koenig. No. 994,471; June 6; Sp. p. 747; Gaz. vol. 167; p. 128.
Pipe-joint, Ball-and-socket. R. E. Adreon. No. 1,001,117; Aug. 22; Sp. p. 4158; Gaz. vol. 169; p. 760.
Pipe-joint, Ball-and-socket. J. Koenig. No. 1,007,362; Oct. 31; Sp. p. 6177; Gaz. vol. 171; p. 1126.
Pipe-joint-clamping device. R. S. Lord. No. 1,006,490; Oct. 24; Sp. p. 4262; Gaz. vol. 171; p. 765.
Pipe-joint, Expansion. J. Koenig. No. 995,792; June 20; Sp. p. 3724; Gaz. vol. 167; p. 649.
Pipe-joint, Locking. C. H. Bicalky. No. 1,005,145; Oct. 10; Sp. p. 1219; Gaz. vol. 171; p. 228.
Pipe joint or coupling, Insulated. S. E. Peeples. No. 997,087; July 4; Sp. p. 1044; Gaz. vol. 168; p. 168.
Pipe-joint, Rotary. W. A. Greenlaw. No. 993,774; May 30; Sp. p. 6343; Gaz. vol. 166; p. 1143.
Pipe-joint, Telescopic. A. L. Cole. No. 1,003,033; Sept. 12; Sp. p. 1884; Gaz. vol. 170; p. 325.
Pipe-laying mechanism. B. H. Sands. No. 982,023; Jan. 17; Sp. p. 4140; Gaz. vol. 162; p. 691.
Pipe lengths, Apparatus for uniting. J. Fraser. No. 999,982; Aug. 8; Sp. p. 1580; Gaz. vol. 169; p. 298.
Pipe-lifter. C. Kern. No. 996,259; June 27; Sp. p. 4738; Gaz. vol. 167; p. 842.
Pipe-lines, Coupling-head for. H. O. Lloyd-Jones. No. 1,007,582; Oct. 31; Sp. p. 6670; Gaz. vol. 171; p. 1201.
Pipe, Making. M. J. McMartin. No. 999,390; Aug. 1; Sp. p. 395; Gaz. vol. 169; p. 70.
Pipe-making machine. G. L. Chatfield. No. 997,602; July 11; Sp. p. 2076; Gaz. vol. 168; p. 371.
Pipe-making machine. W. A. Rees. No. 1,007,974; Nov. 7; Sp. p. 725; Gaz. vol. 172; p. 113.
Pipe-mold. J. C. Knapp, Jr. No. 986,068; Mar. 7; Sp. p. 670; Gaz. vol. 164; p. 107.
Pipe-mold. F. P. Martin. No. 1,006,248; Oct. 17; Sp. p. 3709; Gaz. vol. 171; p. 652.
Pipe or tubing wrench. J. J. Tague. No. 1,006,024; Oct. 17; Sp. p. 3186; Gaz. vol. 171; p. 571.
Pipe plug and flushing-nozzle, Drain-. W. A. Coles. No. 994,442; June 6; Sp. p. 703; Gaz. vol. 167; p. 120.
Pipe-raising device. A. Peppin. No. 1,003,787; Sept. 19; Sp. p. 3491; Gaz. vol. 170; p. 621.
Pipe-rest. G. W. Morter. No 999,331; Aug. 1; Sp. p. 264; Gaz. vol. 169; p. 49.
Pipe separator, Drain-. J. M. McCarthy. No. 991,522; May 9; Sp. p. 1486; Gaz. vol. 166; p. 278.
Pipe, sewer, and conduit. G. L. Smith. No. 1,008,745; Nov. 14; Sp. p. 2523; Gaz. vol. 172; p. 425.
Pipe stem and mouthpiece. G. Osten. No. 997,578; July 11; Sp. p. 2032; Gaz. vol. 168; p. 363.
Pipe stem, Tobacco-. L. Riggs. No. 989,293; Apr. 11; Sp. p. 2125; Gaz. vol. 165; p. 363.
Pipe stem, Tobacco-. J. O. Hebert. No. 999,995; Aug. 8; Sp. p. 1606; Gaz. vol. 169; p. 303.
Pipe-stopper. F. A. K. Cook. No. 991,278; May 2; Sp. p. 968; Gaz. vol. 166; p. 163.
Pipe-support. I. A. Minnick. No. 991,736; May 9; Sp. p. 1959; Gaz. vol. 166; p. 351.
Pipe-supporting apparatus, Train-. J. Davidson, Jr. No. 985,149; Feb. 28; Sp. p. 4089; Gaz. vol. 163; p. 745.
Pipe tapping and plugging device. D. A. Markley. No. 1,007,882; Nov. 7; Sp. p. 538; Gaz. vol. 172; p. 82.
Pipe-testing plug, Soil-. B. B. Kinkade. No. 986,297; Mar. 7; Sp. p. 1119; Gaz. vol. 164; p. 181.
Pipe-testing plug, Soil-. P. J. Rich. No. 995,987; June 20; Sp. p. 4113; Gaz. vol. 167; p. 716.
Pipe-thread protector. D. J. Cable. No. 1,000,374; Aug. 15; Sp. p. 2476; Gaz. vol. 169; p. 463.
Pipe-thread protector. D. J. Cable. No. 1,000,375; Aug. 15; Sp. p. 2479; Gaz. vol. 169; p. 463.
Pipe-threading machine. S. M. Stough and H. C. Larick. No. 984,615; Feb. 21; Sp. p. 2968; Gaz. vol. 163; p. 527.
Pipe-threading machine. W. H. Millspaugh. No. 994,862; June 13; Sp. p. 1689; Gaz. vol. 167; p. 303.
Pipe-threading tools, Work-holder for. M. W. Bechtel. No. 1,007,635; Oct. 31; Sp. p. 6781; Gaz. vol. 171; p. 1219.
Pipe-tongs. G. A. Lane. No. 994,169; June 6; Sp. p. 134; Gaz. vol. 167; p. 24.
Pipe trap, Waste-water-. W. R. Willetts. No. 991,123; May 2; Sp. p. 628; Gaz. vol. 166; p. 107.
Pipe-union. J. B. Austin. No. 982,028; Jan. 17; Sp. p. 4151; Gaz. vol. 162; p. 692.
Pipe-winding machine. H. E. Aine. No. 1,006,173; Oct. 17; Sp. p. 3529; Gaz. vol. 171; p. 625.

Alphabetical list of inventions—Continued.

Pipe-wrench. F. F. Corbin. No. 983,267; Feb. 7; Sp. p. 13; Gaz. vol. 163; p. 5.
Pipe-wrench. E. Enderes. No. 983,271; Feb. 7; Sp. p. 23; Gaz. vol. 163; p. 6.
Pipe-wrench. P. E. Erickson. No. 993,231; May 23; Sp. p. 5134; Gaz. vol. 166; p. 925.
Pipe-wrench. L. F. Fitzgerald. No. 995,243; June 13; Sp. p. 2473; Gaz. vol. 167; p. 428.
Pipe-wrench. J. Pedery. No. 995,984; June 20; Sp. p. 4110; Gaz. vol. 167; p. 715.
Pipe-wrench. C. W. Stover. No. 999,272; Aug. 1; Sp. p. 152; Gaz. vol. 169; p. 29.
Pipe-wrench. W. H. Duffey. No. 1,000,724; Aug. 15; Sp. p. 3256; Gaz. vol. 169; p. 588.
Pipe-wrench. P. J. McGuire. No. 1,001,423; Aug. 22; Sp. p. 4784; Gaz. vol. 169; p. 862.
Pipe-wrench. O. J. Watts. No. 1,002,101; Aug. 29; Sp. p. 6187; Gaz. vol. 169; p. 1119.
Pipe-wrench. W. H. J. Fitzgerald. No. 1,004,561; Oct. 3; Sp. p. 29; Gaz. vol. 171; p. 6.
Pipe-wrench. W. L. Bessolo. No. 1,004,792; Oct. 3; Sp. p. 521; Gaz. vol. 171; p. 86.
Pipe-wrench. J. E. James. No. 1,006,755; Oct. 24; Sp. p. 4824; Gaz. vol. 171; p. 858.
Pipe-wrench. W. L. Bessolo. No. 1,008,939; Nov. 14; Sp. p. 2924; Gaz. vol. 172; p. 488.
Pipe-wrench, Chain. G. Amborn. No. 985,766; Mar. 7; Sp. p. 2; Gaz. vol. 164; p. 3.
Pipes, Coupling. F. Sargent. No. 986,506; Mar. 14; Sp. p. 1596; Gaz. vol. 164; p. 284.
Pipes, Device for removing excrescences from. M. Berlin. No. 980,914; Jan. 10; Sp. p. 1634; Gaz. vol. 162; p. 283.
Pipes, Device for tapping and controlling the flow of liquids in. C. W. Metcalf. No. 997,464; July 11; Sp. p. 1791; Gaz. vol. 168; p. 325.
Pipes from metal strips, Apparatus for manufacturing. E. J. Post. No. 989,045; Apr. 11; Sp. p. 1583; Gaz. vol. 165; p. 278.
Pipes, Key for regulating sluices, &c., affixed to water-. T. Bamanshaw. No. 997,362; July 11; Sp. p. 1614; Gaz. vol. 168; p. 292.
Pipes, Machine for fabrication of. A. J. Levy. No. 996,264; June 27; Sp. p. 4764; Gaz. vol. 167; p. 844.
Pipes, Means for clearing obstructed drain-. A. N. Hadley. No. 995,404; June 13; Sp. p. 2841; Gaz. vol. 167; p. 483.
Pipes, Noise-muffler for exhaust-. D. W. Dudderar. No. 984,890; Feb. 21; Sp. p. 3526; Gaz. vol. 163; p. 623.
Pipes or figured bars, Tool for bending. A. Rülf. No. 992,807; May 23; Sp. p. 4227; Gaz. vol. 166; p. 780.
Pipes or tubes, Refractory covering for metal. J. Harrington. No. 996,926; July 4; Sp. p. 676; Gaz. vol. 168; p. 111.
Pipes, Strainer-section for flexible metallic. L. J. Bordo. No. 986,678; Mar. 14; Sp. p. 1955; Gaz. vol. 164; p. 344.
Pipes, Strengthening flexible metallic. C. Rudolph. No. 1,000,627; Aug. 15; Sp. p. 3059; Gaz. vol. 169; p. 556.
Pipes, Tool for removing obstructions in. L. A. Cornelius. No. 984,473; Feb. 14; Sp. p. 2621; Gaz. vol. 163; p. 443.
Pipes, Ventilation system for soil and waste. A. P. Kletzsch. No. 992,882; May 23; Sp. p. 4400; Gaz. vol. 166; p. 807.
Piping safety device. J. Koenig. No. 982,505; Jan. 24; Sp. p. 5153; Gaz. vol. 162; p. 888.
Pistol. A. Provaglio. No. 985,632; Feb. 28; Sp. p. 5153; Gaz. vol. 163; p. 911.
Pistol and gun, Spring air. L. Jeffries. No. 995,146; June 13; Sp. p. 2289; Gaz. vol. 167; p. 397.
Pistol, Automatic. J. H. Wesson. No. 985,482; Feb. 28; Sp. p. 4850; Gaz. vol. 163; p. 861.
Pistol, Automatic. A. Cuccurullo. No. 990,475; Apr. 25; Sp. p. 4727; Gaz. vol. 165; p. 831.
Pistol, Magazine-. G. Maggio. No. 980,980; Jan. 10; Sp. p. 1835; Gaz. vol. 162; p. 306.
Pistol-stock. F. J. Kaldenberg. No. 1,005,552; Oct. 10; Sp. p. 2140; Gaz. vol. 171; p. 375.
Piston. N. A. Christensen. No. 988,311; Apr. 4; Sp. p. 27; Gaz. vol. 165; p. 8.
Piston. C. E. Gee. No. 994,454; June 6; Sp. p. 721; Gaz. vol. 167; p. 123.
Piston and cylinder construction. V. Morrison and A. H. Schlaegel. No. 984,837; Feb. 21; Sp. p. 3434; Gaz. vol. 163; p. 606.
Piston-drum for rotary engines. R. Eisermann. No. 985,987; Mar. 7; Sp. p. 510; Gaz. vol. 164; p. 80.
Piston for macaroni-presses, Self-seating. F. A. Martoccio. No. 988,007; Mar. 28; Sp. p. 4812; Gaz. vol. 164; p. 857.
Piston for reciprocating engines, Sheet-metal. H. Wiesner. No. 984,250; Feb. 14; Sp. p. 2172; Gaz. vol. 163; p. 368.
Piston-head. F. P. Roesch. No. 985,065; Feb. 21; Sp. p. 3868; Gaz. vol. 163; p. 683.
Piston-head. W. Thompson. No. 1,003,304; Sept. 12; Sp. p. 2452; Gaz. vol. 170; p. 422.
Piston-head, Spring-packing. L. Pettit. No. 993,458; May 30; Sp. p. 5638; Gaz. vol. 166; p. 1032.
Piston-pins, &c., Fastening device for. A. B. Shultz. No. 999,892; Aug. 8; Sp. p. 1408; Gaz. vol. 169; p. 267.
Piston rectifier, Triple-valve-. F. W. Bason. No. 1,003,690; Sept. 19; Sp. p. 3293; Gaz. vol. 170; p. 590.
Piston-ring. T. Davis. No. 1,004,631; Oct. 3; Sp. p. 177; Gaz. vol. 171; p. 31.
Piston-rod. W. R. McKeen, Jr. No. 982,972; Jan. 31; Sp. p. 6133; Gaz. vol. 162; p. 1072.
Piston-rod and extension-guide. F. J. Cole. No. 1,003,235; Sept. 12; Sp. p. 2322; Gaz. vol. 170; p. 398.
Pistons, Device for supplying cold water to gas-engine. F. Reichenbach. No. 992,986; May 23; Sp. p. 4628; Gaz. vol. 166; p. 845.
Pit-mouths, Means for closing. C. Savelsberg. No. 995,096; June 13; Sp. p. 2200; Gaz. vol. 167; p. 382.
Pith-boring device. C. Nave. No. 987,314; Mar. 21; Sp. p. 3297; Gaz. vol. 164; p. 592.
Pitman. G. C. Spellings. No. 987,760; Mar. 28; Sp. p. 4222; Gaz. vol. 164; p. 771.
Pitman. H. Eichhorn. No. 998,758; July 25; Sp. p. 4719; Gaz. vol. 168; p. 854.
Pitman. C. R. Zuver. No. 1,011,101; Dec. 5; Sp. p. 1540; Gaz. vol. 173; p. 244.
Pitman, Ball-bearing. P. Diehl and H. Eichhorn. No. 997,376; July 11; Sp. p. 1638; Gaz. vol. 168; p. 297.
Pitman connection. L. M. Jones. No. 985,906; Mar. 7; Sp. p. 319; Gaz. vol. 164; p. 51.
Pitman connection. W. L. Chrysler. No. 993,757; May 30; Sp. p. 6308; Gaz. vol. 166; p. 1138.
Pitman connection, Self-adjusting. W. C. Benson. No. 985,133; Feb. 28; Sp. p. 4012; Gaz. vol. 163; p. 739.
Pitman for mowing-machines, Yieldable. E. Bernstein. No. 980,400; Jan. 3; Sp. p. 455; Gaz. vol. 162; p. 78.
Pitting device. W. L. Bodman and M. G. Rheinstrom. No. 1,010,848; Dec. 5; Sp. p. 1001; Gaz. vol. 173; p. 156.
Pivot-fixture, Elevating. C. D. Tabor. No. 1,010,979; Dec. 5; Sp. p. 1275; Gaz. vol. 173; p. 202.
Pivot-joint. C. D. King. (Reissue.) No. 13,243; May 23; Sp. p. 5353; Gaz. vol. 166; p. 959.
Pivot-light. P. B. Donahoo. No. 986,966; Mar. 14; Sp. p. 2550; Gaz. vol. 164; p. 441.
Pivot-light. W. F. Green and C. W. Lineker. No. 996,405; June 27; Sp. p. 5106; Gaz. vol. 167; p. 894.
Pivot mechanism, Automatic gravity-stop. J. W. Yates. No. 980,386; Jan. 3; Sp. p. 425; Gaz. vol. 162; p. 74.
Plaiting attachment, Hand. L. M. King. No. 987,075; Mar. 14; Sp. p. 2750; Gaz. vol. 164; p. 476.
Plaiting-machine. E. D. and M. B. Latshaw. No. 989,986; Apr. 18; Sp. p. 3646; Gaz. vol. 165; p. 631.
Plaiting-machine. H. S. Wilcox. No. 1,000,703; Aug. 15; Sp. p. 3215; Gaz. vol. 169; p. 581.
Plaiting machine, Box-. F. C. Loweth. No. 1,004,799; Oct. 3; Sp. p. 535; Gaz. vol. 171; p. 89.
Plane. E. A. Schade. No. 987,081; Mar. 14; Sp. p. 2757; Gaz. vol. 164; p. 477.
Plane. C. Bodmer and E. A. Schade. No. 1,012,591; Dec. 26; Sp. p. 4864; Gaz. vol. 173; p. 876.
Plane, Dado-. H. Smiley. No. 984,610; Feb. 21; Sp. p. 2959; Gaz. vol. 163; p. 525.
Plane, Dado-. H. Smiley. No. 1,011,648; Dec. 12; Sp. p. 2850; Gaz. vol. 173; p. 475.
Plane, Floor-. W. J. Faber. No. 984,083; Feb. 14; Sp. p. 1817; Gaz. vol. 163; p. 312.
Plane-meter. F. E. Prosser. No. 994,951; June 13; Sp. p. 1891; Gaz. vol. 167; p. 333.
Plane, Rabbet-. W. Potter. No. 991,238; May 2; Sp. p. 873; Gaz. vol. 166; p. 148.
Plane, Revolving. J. Hayton. No. 1,006,846; Oct. 24; Sp. p. 5057; Gaz. vol. 171; p. 891.
Planer, Block-. L. G. Freeman. No. 1,003,099; Sept. 12; Sp. p. 2025; Gaz. vol. 170; p. 348.
Planer, Crank-. H. Lutter and E. A. Gies. No. 982,375; Jan. 24; Sp. p. 4863; Gaz. vol. 162; p. 842.
Planer cutter-head. C. W. H. Blood. No. 1,011,107; Dec. 5; Sp. p. 1557; Gaz. vol. 173; p. 246.
Planer-head. C. Winkler. No. 994,965; June 13; Sp. p. 1923; Gaz. vol. 167; p. 337.
Planer-head. H. J. Mitchell. No. 995,024; June 13; Sp. p. 2044; Gaz. vol. 167; p. 357.
Planer-head knives, Holding device for. B. D. Stevens. No. 995,040; June 13; Sp. p. 2078; Gaz. vol. 167; p. 362.
Planer-head, Matching. H. J. Mitchell. No. 987,391; Mar. 21; Sp. p. 3458; Gaz. vol. 164; p. 618.
Planer-knife-holding device. F. L. Lane. No. 1,010,645; Dec. 5; Sp. p. 547; Gaz. vol. 173; p. 86.
Planer-knives, Adjusting and grinding. O. B. Osborn. No. 993,398; May 30; Sp. p. 5499; Gaz. vol. 166; p. 1013.
Planers and the like, Driving and reversing mechanism for. F. Snow. No. 1,003,156; Sept. 12; Sp. p. 2132; Gaz. vol. 170; p. 367.
Planers, Beading-machine for wood-. C. W. H. Blood. No. 989,480; Apr. 11; Sp. p. 2505; Gaz. vol. 165; p. 424.
Planing-machine. O. E. Wells and E. Chaurette. No. 1,004,834; Oct. 3; Sp. p. 615; Gaz. vol. 171; p. 101.
Planing-machine. T. A. Peterson and W. D. Plue. No. 1,009,688; Nov. 21; Sp. p. 4548; Gaz. vol. 172; p. 783.
Planing-machine and attachment. W. A. Perkins. No. 987,012; Mar. 14; Sp. p. 2636; Gaz. vol. 164; p. 455.
Planing-machine attachment. C. E. Berold. No. 1,004,619; Oct. 3; Sp. p. 156; Gaz. vol. 171; p. 27.
Planing-machine hand-guard. F. W. Hall and G. W. Baum. No. 1,001,391; Aug. 22; Sp. p. 4722; Gaz. vol. 169; p. 851.
Planing-machine milling attachment. C. E. Berold. No. 1,004,620; Oct. 3; Sp. p. 157; Gaz. vol. 171; p. 27.

Alphabetical list of inventions—Continued.

Planing machine, Wood-. J. Ermentraut. No. 994,989; June 13; Sp. p. 1975; Gaz. vol. 167; p. 345.
Planing machines, Impelling pressure-roller for wood-. C. K. Orton. No. 985,366; Feb. 28; Sp. p. 4565; Gaz. vol. 163; p. 819.
Plank, Flexible. A. Ek. No. 1,004,861; Oct. 3; Sp. p. 680; Gaz. vol. 171; p. 111.
Planking and decking clamp. H. B. Cutler. No. 994,722; June 13; Sp. p. 1362; Gaz. vol. 167; p. 255.
Plant and flower pot. G. M. King. No. 986,395; Mar. 7; Sp. p. 1348; Gaz. vol. 164; p. 217.
Plant-bed burner. S. Shown. No. 983,650; Feb. 7; Sp. p. 849; Gaz. vol. 163; p. 135.
Plant-bed burner. C. T. Campbell. No. 988,309; Apr. 4; Sp. p. 24; Gaz. vol. 165; p. 7.
Plant chopper and thinner. R. Salsbury. No. 1,011,375; Dec. 12; Sp. p. 2201; Gaz. vol. 173; p. 375.
Plant-protector. J. Edwards. No. 984,363; Feb. 14; Sp. p. 2402; Gaz. vol. 163; p. 407.
Plant-protector. N. B. Dixon. No. 989,341; Apr. 11; Sp. p. 2229; Gaz. vol. 165; p. 378.
Plant-protector. A. G. McAdie. No. 994,083; May 30; Sp. p. 6958; Gaz. vol. 166; p. 1247.
Plant-protector. J. Bolt. No. 995,657; June 20; Sp. p. 3417; Gaz. vol. 167; p. 602.
Plant-setter. J. C. Berhorst. No. 1,010,572; Dec. 5; Sp. p. 381; Gaz. vol. 173; p. 60.
Plant-setting machine. S. T. Davis. No. 986,145; Mar. 7; Sp. p. 806; Gaz. vol. 164; p. 131.
Plant-shield. C. Bevill. No. 1,011,017; Dec. 5; Sp. p. 1348; Gaz. vol. 173; p. 215.
Plant-support. H. D. Robinson. No. 988,898; Apr. 4; Sp. p. 1271; Gaz. vol. 165; p. 204.
Plants, Apparatus for continuously lixiviating. C. Steffen. No. 1,006,311; Oct. 17; Sp. p. 3849; Gaz. vol. 171; p. 673.
Planter. G. F. W. Harris, Jr. No. 985,589; Feb. 28; Sp. p. 5075; Gaz. vol. 163; p. 897.
Planter. N. N. Libner. No. 986,018; Mar. 7; Sp. p. 566; Gaz. vol. 164; p. 90.
Planter. B. F. Luke and C. L. Allen. No. 989,376; Apr. 11; Sp. p. 2298; Gaz. vol. 165; p. 389.
Planter. W. C. Thomas. No. 990,081; Apr. 18; Sp. p. 3815; Gaz. vol. 165; p. 661.
Planter. E. A. Eason. No. 992,553; May 16; Sp. p. 3715; Gaz. vol. 166; p. 665.
Planter. T. Lewis. No. 996,265; June 27; Sp. p. 4765; Gaz. vol. 167; p. 845.
Planter. H. H. Lueck. No. 996,867; July 4; Sp. p. 556; Gaz. vol. 168; p. 91.
Planter. N. Waring. No. 1,001,102; Aug. 22; Sp. p. 4121; Gaz. vol. 169; p. 755.
Planter. B. Sawyer. No. 1,004,692; Oct. 3; Sp. p. 305; Gaz. vol. 171; p. 52.
Planter. S. H. Tinsman. No. 1,004,942; Oct. 3; Sp. p. 850; Gaz. vol. 171; p. 138.
Planter. F. R. Furbos and B. T. Lumpkin. No. 1,010,491; Dec. 5; Sp. p. 197; Gaz. vol. 173; p. 33.
Planter and check-rower, Automatic. A. M. Crisman. No. 995,225; June 13; Sp. p. 2440; Gaz. vol. 167; p. 422.
Planter and fertilizer-distributer. F. H. Weaver. No. 986,250; Mar. 7; Sp. p. 1034; Gaz. vol. 164; p. 166.
Planter and fertilizer-distributer, Combined seed-. W. D. Lemons. No. 1,004,797; Oct. 3; Sp. p. 530; Gaz. vol. 171; p. 88.
Planter and fertilizer-distributer, Corn-. W. B. Myers. No. 987,482; Mar. 21; Sp. p. 3642; Gaz. vol. 164; p. 649.
Planter attachment. A. J. Anderson. No. 984,731; Feb. 21; Sp. p. 3221; Gaz. vol. 163; p. 570.
Planter attachment. C. Weikert. No. 998,060; July 18; Sp. p. 3169; Gaz. vol. 168; p. 575.
Planter attachment. C. W. Rabbit. No. 1,008,064; Nov. 7; Sp. p. 896; Gaz. vol. 172; p. 144.
Planter, Auxiliary. A. R. Baldwin. No. 1,011,010; Dec. 5; Sp. p. 1334; Gaz. vol. 173; p. 212.
Planter, Check-row and drill corn-. P. E. Wistrand. No. 1,002,105; Aug. 29; Sp. p. 6191; Gaz. vol. 169; p. 1120.
Planter, Corn-. J. Vinton. No. 982,649; Jan. 24; Sp. p. 5419; Gaz. vol. 162; p. 935.
Planter, Corn-. L. E. Waterman. No. 984,626; Feb. 21; Sp. p. 2998; Gaz. vol. 163; p. 531.
Planter, Corn-. N. S. Sibert. No. 986,513; Mar. 14; Sp. p. 1612; Gaz. vol. 164; p. 286.
Planter, Corn-. L. A. Lawhon. No. 990,148; Apr. 18; Sp. p. 3961; Gaz. vol. 165; p. 683.
Planter, Corn-. R. H. Gardner. No. 992,712; May 16; Sp. p. 4020; Gaz. vol. 166; p. 718.
Planter, Corn-. H. G. Woehler. No. 998,938; July 25; Sp. p. 5142; Gaz. vol. 168; p. 918.
Planter, Corn-. O. I. Tomblin. No. 998,998; July 25; Sp. p. 5271; Gaz. vol. 168; p. 938.
Planter, Corn-. J. C. Tunnicliff. No. 1,000,462; Aug. 15; Sp. p. 2663; Gaz. vol. 169; p. 494.
Planter, Corn-. S. K. Dennis. No. 1,000,672; Aug. 15; Sp. p. 3151; Gaz. vol. 169; p. 571.
Planter, Corn-. S. K. Dennis. No. 1,001,367; Aug. 22; Sp. p. 4676; Gaz. vol. 169; p. 844.
Planter, Corn-. S. K. Dennis. No. 1,001,736; Aug. 29; Sp. p. 5415; Gaz. vol. 169; p. 998.
Planter, Corn-. C. W. Michael. No. 1,003,936; Sept. 19; Sp. p. 3821; Gaz. vol. 170; p. 672.
Planter, Corn-. P. A. Custer. No. 1,004,854; Oct. 3; Sp. p. 667; Gaz. vol. 171; p. 109.
Planter, Corn-. S. K. Dennis. No. 1,005,172; Oct. 10; Sp. p. 1279; Gaz. vol. 171; p. 238.
Planter, Corn-. M. H. Bird. No. 1,007,517; Oct. 31; Sp. p. 6521; Gaz. vol. 171; p. 1179.
Planter, Corn-. S. K. Dennis. No. 1,011,926; Dec. 19; Sp. p. 3442; Gaz. vol. 173; p. 603.
Planter, Corn-. E. H. Snyder. No. 1,012,174; Dec. 19; Sp. p. 4005; Gaz. vol. 173; p. 690.
Planter, Corn and bean. C. Hansen. No. 1,010,255; Nov. 28; Sp. p. 5710; Gaz. vol. 172; p. 1021.
Planter, Cotton-seed. D. H. McGuire. No. 993,183; May 23; Sp. p. 5041; Gaz. vol. 166; p. 910.
Planter, Disk. G. Mitts and R. Maddox. No. 990,451; Apr. 25; Sp. p. 4683; Gaz. vol. 165; p. 823.
Planter, Garden-seed. J. Balint. No. 988,539; Apr. 4; Sp. p. 531; Gaz. vol. 165; p. 85.
Planter, Garden-seed. W. A. Hancock. No. 991,978; May 9; Sp. p. 2439; Gaz. vol. 166; p. 433.
Planter harrow attachment. C. Reiss and F. B. Loufek. No. 981,796; Jan. 17; Sp. p. 3598; Gaz. vol. 162; p. 611.
Planter marker, Corn-. R. Boldry. No. 992,401; May 16; Sp. p. 3392; Gaz. vol. 166; p. 611.
Planter marking device, Corn-. F. P. Scherschel. No. 1,013,071; Dec. 26; Sp. p. 5950; Gaz. vol. 173; p. 1041.
Planter, Peanut-. J. R. Ayers. No. 988,063; Mar. 28; Sp. p. 4936; Gaz. vol. 164; p. 876.
Planter, Potato-. A. T. Heikes. No. 997,674; July 11; Sp. p. 2247; Gaz. vol. 168; p. 397.
Planter, Potato-. E. W. Kitchen. No. 1,005,435; Oct. 10; Sp. p. 1883; Gaz. vol. 171; p. 333.
Planter, Potato-. A. R. Pribil. No. 1,008,925; Nov. 14; Sp. p. 2879; Gaz. vol. 172; p. 484.
Planter, Seed-. E. M. Dowdy. No. 981,395; Jan. 10; Sp. p. 2781; Gaz. vol. 162; p. 453.
Planter, Seed-. W. L. Dodd. No. 985,331; Feb. 28; Sp. p. 4490; Gaz. vol. 163; p. 808.
Planter, Seed-. J. F. Bly. No. 991,940; May 9; Sp. p. 2373; Gaz. vol. 166; p. 421.
Planter, Seed-. A. C. Lindgren. No. 997,626; July 11; Sp. p. 2148; Gaz. vol. 168; p. 381.
Planter, Seed-. J. H. Rogers. No. 1,006,286; Oct. 17; Sp. p. 3800; Gaz. vol. 171; p. 666.
Planter, Seed-. A. Sheetz. No. 1,006,984; Oct. 24; Sp. p. 5347; Gaz. vol. 171; p. 938.
Planter, Seed-. W. D. Heflin. No. 1,010,257; Nov. 28; Sp. p. 5714; Gaz. vol. 172; p. 1022.
Planter, Sugar-cane. F. Lojacono. No. 1,000,529; Aug. 15; Sp. p. 2808; Gaz. vol. 169; p. 518.
Planter, Sugar-cane. F. Lojacono. No. 1,003,928; Sept. 19; Sp. p. 3805; Gaz. vol. 170; p. 669.
Planter, Wireless check-row. D. McAtee. No. 1,012,396; Dec. 19; Sp. p. 4462; Gaz. vol. 173; p. 764.
Planter, Wireless check-row corn-. L. A. Anfinson. No. 1,000,705; Aug. 15; Sp. p. 3219; Gaz. vol. 169; p. 582.
Planters, Adjustable seed-cell for. A. M. Crisman. No. 991,279; May 2; Sp. p. 969; Gaz. vol. 166; p. 163.
Planters, Anchor for check-row corn-. W. E. Kearns. No. 1,010,268; Nov. 28; Sp. p. 5731; Gaz. vol. 172; p. 1025.
Planters, Covering attachment for hand corn-. M. A. Scanlon. No. 985,637; Feb. 28; Sp. p. 5162; Gaz. vol. 163; p. 912.
Planters, Hinged fork for check-row. A. T. Carlson. No. 997,369; July 11; Sp. p. 1625; Gaz. vol. 168; p. 295.
Planters, Planting depth-gage and covering attachment for. D. R. Vivion. No. 1,007,256; Oct. 31; Sp. p. 5963; Gaz. vol. 171; p. 1088.
Planters, Tamper or marker for. C. H. Noell. No. 993,271; May 23; Sp. p. 5224; Gaz. vol. 166; p. 937.
Planters, Variable change-gear for. A. M. Crisman. No. 995,226; June 13; Sp. p. 2447; Gaz. vol. 167; p. 423.
Planters, Wireless check-row attachment for corn-. C. C. Rockwell. No. 998,205; July 18; Sp. p. 3469; Gaz. vol. 168; p. 625.
Planting device. H. E. Poynter. No. 992,056; May 9; Sp. p. 2581; Gaz. vol. 166; p. 459.
Planting device. J. F. Johnson. No. 1,011,205; Dec. 12; Sp. p. 1807; Gaz. vol. 173; p. 315.
Planting-machine. C. E. Patric. No. 982,018; Jan. 17; Sp. p. 4132; Gaz. vol. 162; p. 689.
Planting-machine. C. E. Patric. No. 982,089; Jan. 17; Sp. p. 4278; Gaz. vol. 162; p. 712.
Planting-machine. J. M. Lebar. No. 991,071; May 2; Sp. p. 505; Gaz. vol. 166; p. 87.
Planting machine, Tree-. J. E. Rodman. No. 1,007,735; Nov. 7; Sp. p. 177; Gaz. vol. 172; p. 30.
Planting machines, Feed-regulating device for seed-. W. D. Haines. No. 989,348; Apr. 11; Sp. p. 2242; Gaz. vol. 165; p. 380.
Planting mechanism, Corn-. A. C. Lindgren. No. 1,000,683; Aug. 15; Sp. p. 3169; Gaz. vol. 169; p. 574.
Planting-shoe with covering-disks. J. J. Kovar. No. 994,411; June 6; Sp. p. 646; Gaz. vol. 167; p. 110.
Plaster-board. D. E. Roberts. No. 985,207; Feb. 28; Sp. p. 4222; Gaz. vol. 163; p. 766.
Plaster-board machine. A. A. Bender. No. 1,003,322; Sept. 12; Sp. p. 2490; Gaz. vol. 170; p. 429.
Plaster-board, Making. J. W. Voglesong. No. 999,474; Aug. 1; Sp. p. 546; Gaz. vol. 169; p. 96.

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Plaster-boards, Method of and apparatus for producing. D. E. Roberts. No. 1,008,991; Nov. 14; Sp. p. 3037; Gaz. vol. 172; p. 505.
Plaster-boards used in partition construction, Device for supporting and securing. M. H. Jester. No. 1,001,146; Aug. 22; Sp. p. 4205; Gaz. vol. 169; p. 769.
Plasterer's darby. C. V. Brown. No. 1,002,896; Sept. 12; Sp. p. 1611; Gaz. vol. 170; p. 279.
Plasterer's hawk. H. E. Brunner. No. 1,001,811; Aug. 29; Sp. p. 5583; Gaz. vol. 169; p. 1024.
Plastic block and earthenware apparatus. F. H. Howard. No. 981,267; Jan. 10; Sp. p. 2510; Gaz. vol. 162; p. 408.
Plastic masses, Machine for treating and molding. A. Lutze. No. 997,199; July 4; Sp. p. 1260; Gaz. vol. 168; p. 205.
Plastic masses, Tool for working and finishing. J. N. Heltzel. No. 1,005,208; Oct. 10; Sp. p. 1364; Gaz. vol. 171; p. 252.
Plastic material, Apparatus for molding. A. G. Brust. No. 997,647; July 11; Sp. p. 2193; Gaz. vol. 168; p. 388.
Plastic material, Compound. W. H. Underwood. No. 1,012,030; Dec. 19; Sp. p. 3683; Gaz. vol. 173; p. 641.
Plastic material, Machine for pressing. A. B. Klay. No. 984,933; Feb. 21; Sp. p. 3613; Gaz. vol. 163; p. 637.
Plastic material, Making hollow articles from. B. Balg. No. 1,012,232; Dec. 19; Sp. p. 4137; Gaz. vol. 173; p. 710.
Plastic material such as rubber, gutta-percha, &c., Apparatus for shaping. M. M. Dessau. No. 998,474; July 18; Sp. p. 4073; Gaz. vol. 168; p. 722.
Plastic materials into twisted shapes, Machine for forming. A. Cotoli. No. 1,004,376; Sept. 26; Sp. p. 4814; Gaz. vol. 170; p. 850.
Plastic or adhesive materials, Apparatus for mixing and applying. C. E. Akeley. No. 991,814; May 9; Sp. p. 2113; Gaz. vol. 166; p. 378.
Plastic or adhesive mixtures, Producing and depositing. C. E. Akeley. No. 984,254; Feb. 14; Sp. p. 2181; Gaz. vol. 163; p. 370.
Plastic street-coverings, Implement for corrugating. M. J. Malloy. No. 993,086; May 23; Sp. p. 4844; Gaz. vol. 166; p. 879.
Plastic substances, Manufacture of. H. Linnekogel. No. 980,807; Jan. 3; Sp. p. 1345; Gaz. vol. 162; p. 216.
Plastic substances, Testing-machine for. H. Abraham. No. 989,471; Apr. 11; Sp. p. 2487; Gaz. vol. 165; p. 422.
Plastic tie. D. K. McDaniel. No. 1,006,492; Oct. 24; Sp. p. 4266; Gaz. vol. 171; p. 766.
Plastics, Process of and apparatus for molding. J. J. Berrigan. No. 994,496; June 6; Sp. p. 805; Gaz. vol. 167; p. 136.
Plate-holder, Magazine. E. E. Thrasher. No. 980,704; Jan. 3; Sp. p. 1135; Gaz. vol. 162; p. 182.
Plate-holder, Magazine. R. Goldstein. No. 984,901; Feb. 21; Sp. p. 3548; Gaz. vol. 163; p. 627.
Plate-holding clamp. A. G. Strathern. No. 1,011,660; Dec. 12; Sp. p. 2869; Gaz. vol. 173; p. 479.
Plate-holding device. E. W. Cooper. No. 997,967; July 18; Sp. p. 2955; Gaz. vol. 168; p. 542.
Plate-lifter. M. L. M. Peck. No. 986,854; Mar. 14; Sp. p. 2327; Gaz. vol. 164; p. 403.
Plate-lifter. G. Seel. No. 990,913; May 2; Sp. p. 182; Gaz. vol. 166; p. 33.
Plate-lifter. W. S. Hall. No. 996,407; June 27; Sp. p. 5112; Gaz. vol. 167; p. 895.
Plate-lifter. J. E. Wenman. No. 1,003,835; Sept. 19; Sp. p. 3577; Gaz. vol. 170; p. 636.
Plate or pan lifter. S. A. Holman. No. 983,054; Jan. 31; Sp. p. 6338; Gaz. vol. 162; p. 1101.
Plates, sheets, and the like, Cooling apparatus for. G. W. Bickerton. No. 1,006,902; Oct. 24; Sp. p. 5186; Gaz. vol. 171; p. 911.
Platen-press. J. Thomson. No. 980,452; Jan. 3; Sp. p. 587; Gaz. vol. 162; p. 97.
Platen-press inking mechanism. O. S. Beyer. No. 993,572; May 30; Sp. p. 5886; Gaz. vol. 166; p. 1073.
Platen-shifting mechanism. C. Spiro. No. 987,764; Mar. 28; Sp. p. 4233; Gaz. vol. 164; p. 773.
Platform-buffer. J. M. Waugh. No. 1,011,296; Dec. 12; Sp. p. 2026; Gaz. vol. 173; p. 349.
Platform, Dumping-. E. L. Rector. No. 986,218; Mar. 7; Sp. p. 958; Gaz. vol. 164; p. 156.
Platform for derricks and the like. J. W. Page. No. 1,001,299; Aug. 22; Sp. p. 4514; Gaz. vol. 169; p. 819.
Platform or plank. J. S. Tilley. No. 982,905; Jan. 31; Sp. p. 5996; Gaz. vol. 162; p. 1051.
Platform, Portable. W. P. Tarrant. No. 985,471; Feb. 28; Sp. p. 4820; Gaz. vol. 163; p. 856.
Play-ball. G. L. Harvey. No. 985,741; Feb. 28; Sp. p. 5412; Gaz. vol. 163; p. 949.
Player-motor-stopping device. A. Anderson. No. 1,011,552; Dec. 12; Sp. p. 2596; Gaz. vol. 173; p. 439.
Player tempo-regulator. A. Anderson. No. 1,011,553; Dec. 12; Sp. p. 2598; Gaz. vol. 173; p. 439.
Players or the like, Coin-control attachment for automatic. P. J. Dreher. No. 984,199; Feb. 14; Sp. p. 2032; Gaz. vol. 163; p. 350.
Pliers. W. A. Peck. No. 988,656; Apr. 4; Sp. p. 787; Gaz. vol. 165; p. 126.
Pliers. C. A. Uhrnell. No. 993,128; May 23; Sp. p. 4938; Gaz. vol. 166; p. 894.
Pliers. P. G. Stormer. No. 993,902; May 30; Sp. p. 6581; Gaz. vol. 166; p. 1186.
Pliers. J. L. Young. No. 995,754; June 20; Sp. p. 3641; Gaz. vol. 167; p. 636.
Pliers. W. A. Bernard. No. 999,738; Aug. 8; Sp. p. 1083; Gaz. vol. 169; p. 215.
Pliers. W. A. Bernard. No. 999,739; Aug. 8; Sp. p. 1085; Gaz. vol. 169; p. 216.
Pliers. W. W. Avery. No. 1,004,524; Sept. 26; Sp. p. 5117; Gaz. vol. 170; p. 901.
Pliers. W. H. Metzger. No. 1,005,268; Oct. 10; Sp. p. 1515; Gaz. vol. 171; p. 274.
Pliers. A. E. Menzel. No. 1,008,176; Nov. 7; Sp. p. 1119; Gaz. vol. 172; p. 185.
Pliers, Cutting-. G. S. Blake. No. 980,861; Jan. 3; Sp. p. 1460; Gaz. vol. 162; p. 234.
Pliers, Expansion-. L. S. Starrett. No. 980,361; Jan. 3; Sp. p. 370; Gaz. vol. 162; p. 65.
Pliers, Jeweler's. H. J. McKeon. No. 1,004,289; Sept. 26; Sp. p. 4642; Gaz. vol. 170; p. 821.
Plotter. L. M. Carmical. No. 986,358; Mar. 7; Sp. p. 1262; Gaz. vol. 164; p. 204.
Plow. S. J. Standard. No. 981,133; Jan. 10; Sp. p. 2190; Gaz. vol. 162; p. 361.
Plow. J. L. Jackson. No. 982,681; Jan. 24; Sp. p. 5487; Gaz. vol. 162; p. 946.
Plow. L. Carr. No. 982,935; Jan. 31; Sp. p. 6056; Gaz. vol. 162; p. 1060.
Plow. J. A. Rodman. No. 985,553; Feb. 28; Sp. p. 5002; Gaz. vol. 163; p. 885.
Plow. C. W. Hicks. No. 985,591; Feb. 28; Sp. p. 5080; Gaz. vol. 163; p. 898.
Plow. G. Wenger. No. 986,251; Mar. 7; Sp. p. 1035; Gaz. vol. 164; p. 166.
Plow. C. D. Smith. No. 986,321; Mar. 7; Sp. p. 1174; Gaz. vol. 164; p. 190.
Plow. F. D. Tarver. No. 987,507; Mar. 21; Sp. p. 3682; Gaz. vol. 164; p. 657.
Plow. D. J. McIntosh. No. 988,203; Mar. 28; Sp. p. 5194; Gaz. vol. 164; p. 921.
Plow. G. Spalding. No. 988,739; Apr. 4; Sp. p. 970; Gaz. vol. 165; p. 154.
Plow. R. S. Bates. No. 988,850; Apr. 4; Sp. p. 1184; Gaz. vol. 165; p. 189.
Plow. J. S. Park. No. 991,452; May 2; Sp. p. 1325; Gaz. vol. 166; p. 221.
Plow. J. F. Whiting. No. 991,810; May 9; Sp. p. 2105; Gaz. vol. 166; p. 377.
Plow. W. H. Holsclaw. No. 992,196; May 16; Sp. p. 2892; Gaz. vol. 166; p. 538.
Plow. E. O. Gay. No. 992,556; May 16; Sp. p. 3722; Gaz. vol. 166; p. 666.
Plow. J. Bryan. No. 994,120; June 6; Sp. p. 35; Gaz. vol. 167; p. 8.
Plow. H. G. Klaus. No. 994,321; June 6; Sp. p. 449; Gaz. vol. 167; p. 77.
Plow. H. Monaghan. No. 994,648; June 6; Sp. p. 1152; Gaz. vol. 167; p. 189.
Plow. R. McKee. No. 994,769; June 13; Sp. p. 1476; Gaz. vol. 167; p. 271.
Plow. A. W. Poole. No. 995,177; June 13; Sp. p. 2356; Gaz. vol. 167; p. 408.
Plow. H. and F. Röwer. No. 996,145; June 27; Sp. p. 4451; Gaz. vol. 167; p. 805.
Plow. E. James. No. 996,718; July 4; Sp. p. 244; Gaz. vol. 168; p. 42.
Plow. H. Mahler. No. 999,817; Aug. 8; Sp. p. 1233; Gaz. vol. 169; p. 241.
Plow. J. G. Page. No. 1,000,544; Aug. 15; Sp. p. 2857; Gaz. vol. 169; p. 524.
Plow. L. B. Burt. No. 1,001,616; Aug. 29; Sp. p. 5158; Gaz. vol. 169; p. 956.
Plow. M. L. Watson. No. 1,002,344; Sept. 5; Sp. p. 386; Gaz. vol. 170; p. 54.
Plow. W. A. Harris. No. 1,002,841; Sept. 12; Sp. p. 1464; Gaz. vol. 170; p. 260.
Plow. C. Cimarik. No. 1,002,966; Sept. 12; Sp. p. 1751; Gaz. vol. 170; p. 304.
Plow. C. D. Dellinger. No. 1,004,387; Sept. 26; Sp. p. 4842; Gaz. vol. 170; p. 854.
Plow. W. L. Paul. No. 1,004,463; Sept. 26; Sp. p. 5004; Gaz. vol. 170; p. 880.
Plow. H. C. Parham. No. 1,005,461; Oct. 10; Sp. p. 1939; Gaz. vol. 171; p. 343.
Plow. W. Baum. No. 1,005,501; Oct. 10; Sp. p. 2030; Gaz. vol. 171; p. 356.
Plow. W. O. West. No. 1,006,325; Oct. 17; Sp. p. 3876; Gaz. vol. 171; p. 678.
Plow. J. L. Prather. No. 1,008,490; Nov. 14; Sp. p. 1959; Gaz. vol. 172; p. 335.
Plow. J. W. Webb. No. 1,008,505; Nov. 14; Sp. p. 1992; Gaz. vol. 172; p. 340.
Plow. C. H. Kelley. No. 1,008,918; Nov. 14; Sp. p. 2869; Gaz. vol. 172; p. 482.
Plow. G. Puha. No. 1,009,439; Nov. 21; Sp. p. 4075; Gaz. vol. 172; p. 702.
Plow. J. Goyeneche. No. 1,009,662; Nov. 21; Sp. p. 4494; Gaz. vol. 172; p. 774.
Plow. C. Birdsong. No. 1,009,824; Nov. 28; Sp. p. 4856; Gaz. vol. 172; p. 877.

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Plow. T. Van Egeren. No. 1,012,032; Dec. 19; Sp. p. 3686; Gaz. vol. 173; p. 641.
Plow. J. Green. No. 1,012,254; Dec. 19; Sp. p. 4179; Gaz. vol. 173; p. 717.
Plow. H. Weigand. No. 1,012,307; Dec. 19; Sp. p. 4290; Gaz. vol. 173; p. 736.
Plow. G. and M. D. Fair. No. 1,012,534; Dec. 19; Sp. p. 4728; Gaz. vol. 173; p. 812.
Plow and cultivating implement, Disk. G. O. Westendorf. No. 1,008,759; Nov. 14; Sp. p. 2549; Gaz. vol. 172; p. 430.
Plow and harrow, Combined. M. Hollis. No. 980,262; Jan. 3; Sp. p. 155; Gaz. vol. 162; p. 30.
Plow and planter, Combined lister-. A. C. Lindgren. No. 1,006,388; Oct. 17; Sp. p. 4014; Gaz. vol. 171; p. 700.
Plow attachment. A. R., A. M., and W. S. White. No. 991,920; May 9; Sp. p. 2331; Gaz. vol. 166; p. 414.
Plow attachment. C. Pucall. No. 992,591; May 16; Sp. p. 3799; Gaz. vol. 166; p. 678.
Plow attachment. W. W. Beeman and L. H. Graves. No. 995,944; June 20; Sp. p. 4035; Gaz. vol. 167; p. 702.
Plow attachment. J. E. Sheefel. No. 1,000,849; Aug. 15; Sp. p. 3517; Gaz. vol. 169; p. 633.
Plow attachment—jointer. E. McDaniel. No. 1,004,803; Oct. 3; Sp. p. 551; Gaz. vol. 171; p. 90.
Plow attachment, Subsurface-packing. P. F. Erb and C. F. Bloom. No. 987,053; Mar. 14; Sp. p. 2712; Gaz. vol. 164; p. 469.
Plow, Automobile. O. H. Lincoln and E. O. Parkhurst. No. 1,001,537; Aug. 22; Sp. p. 4980; Gaz. vol. 169; p. 899.
Plow-beam. W. F. Faircloth. No. 985,408; Feb. 28; Sp. p. 4646; Gaz. vol. 163; p. 832.
Plow-beam. E. P. Kirby. No. 990,566; Apr. 25; Sp. p. 4944; Gaz. vol. 165; p. 863.
Plow-beam. C. B. Wilson. No. 1,011,690; Dec. 12; Sp. p. 2919; Gaz. vol. 173; p. 487.
Plow, Disk. J. B. Donald. No. 990,641; Apr. 25; Sp. p. 5089; Gaz. vol. 165; p. 887.
Plow, Disk. B. N. Botts. No. 1,001,807; Aug. 29; Sp. p. 5572; Gaz. vol. 169; p. 1022.
Plow drag attachment. J. Dengel. No. 987,286; Mar. 21; Sp. p. 3230; Gaz. vol. 164; p. 582.
Plow drag attachment. J. E. Burton. No. 987,856; Mar. 28; Sp. p. 4427; Gaz. vol. 164; p. 805.
Plow drag attachment. J. E. Burton. No. 998,838; July 25; Sp. p. 4987; Gaz. vol. 168; p. 881.
Plow, Drain-. G. W. Morse. No. 1,006,116; Oct. 17; Sp. p. 3383; Gaz. vol. 171; p. 603.
Plow, Engine-. J. B. Donald. No. 991,961; May 9; Sp. p. 2405; Gaz. vol. 166; p. 428.
Plow, Engine gang-. W. L. Paul. No. 984,293; Feb. 14; Sp. p. 2270; Gaz. vol. 163; p. 384.
Plow-equalizer. V. Kohout. No. 1,002,706; Sept. 5; Sp p. 1161; Gaz. vol. 170; p. 175.
Plow-fender. S. L. Penny. No. 985,627; Feb. 28; Sp. p. 5147; Gaz. vol. 163; p. 909.
Plow-fender. J. P. Ertel. No. 992,646; May 16; Sp. p. 3899; Gaz. vol. 166; p. 695.
Plow-fender. H. B. Vail. No. 1,005,372; Oct. 10; Sp. p. 1753; Gaz. vol. 171; p. 312.
Plow fertilizer attachment, Single-horse-. S. Burwell, Jr. No. 989,114; Apr. 11; Sp. p. 1726; Gaz. vol. 165; p. 301.
Plow for plants, Weed-. J. E. Caldwell. No. 986,438; Mar. 14; Sp. p. 1447; Gaz. vol. 164; p. 261.
Plow-frame. W. G. Danielsen. No. 1,008,020; Nov. 7; Sp. p. 810; Gaz. vol. 172; p. 128.
Plow frame, Gang-. J. H. Algard and A. Bramer. No. 997,355; July 11; Sp. p. 1601; Gaz. vol. 168; p. 290.
Plow, Gang-. N. and A. Siller. No. 983,575; Feb. 7; Sp. p. 698; Gaz. vol. 163; p. 109.
Plow, Gang-. J. Langlois. No. 990,885; May 2; Sp. p. 124; Gaz. vol. 166; p. 23.
Plow, Gang-. W. S. Graham. No. 992,495; May 16; Sp. p. 3583; Gaz. vol. 166; p. 645.
Plow, Gang-. W. S. Graham. No. 992,496; May 16; Sp. p. 3585; Gaz. vol. 166; p. 645.
Plow, Gang-. W. S. Graham. No. 992,497; May 16; Sp. p. 3587; Gaz. vol. 166; p. 644.
Plow, Gang-. W. S. Graham. No. 992,714; May 16; Sp. p. 4023; Gaz. vol. 166; p. 718.
Plow, Gang-. E. C. Curtis. No. 1,006,440; Oct. 17; Sp. p. 4121; Gaz. vol. 171; p. 718.
Plow, Gang-. P. A. Van Sickle. No. 1,009,269; Nov. 21; Sp. p. 3673; Gaz. vol. 172; p. 640.
Plow, Gang-. A. A. Allemand. No. 1,012,577; Dec. 26; Sp. p. 4833; Gaz. vol. 173; p. 872.
Plow, Garden-. R. L. Moore. No. 1,001,974; Aug. 29; Sp. p. 5948; Gaz. vol. 169; p. 1078.
Plow, Grub-. E. J. Gardner and D. Odem. No. 1,000,507; Aug. 15; Sp. p. 2759; Gaz. vol. 169; p. 511.
Plow-handle. J. E. Newberry. No. 992,237; May 16; Sp. p. 3001; Gaz. vol. 166; p. 553.
Plow harrow attachment. E. B. Barrows. No. 980,741; Jan. 3; Sp. p. 1207; Gaz. vol. 162; p. 193.
Plow harrow attachment. G. H. Mahan. No. 983,382; Feb. 7; Sp. p. 269; Gaz. vol. 163; p. 45.
Plow harrow attachment. B. H. G. Wilbur. No. 998,823; July 25; Sp. p. 4853; Gaz. vol. 168; p. 876.
Plow harrow attachment. C. H. Myers. No. 1,002,172; Aug. 29; Sp. p. 6318; Gaz. vol. 169; p. 1142.
Plow harrow attachment. W. T. Flournoy and E. M. Willet. No. 1,005,527; Oct. 10; Sp. p. 2078; Gaz. vol. 171; p. 365.
Plow-hitch, Non-side-draft. H. S. Busby. No. 987,045; Mar. 14; Sp. p. 2700; Gaz. vol. 164; p. 466.
Plow-jack. C. J. Thompson. No. 988,228; Mar. 28; Sp. p. 5247; Gaz. vol. 164; p. 931.
Plow-jointer. L. Livermore. No. 981,294; Jan. 10; Sp. p. 2563; Gaz. vol. 162; p. 418.
Plow-lay. A. G. Leave. No. 995,973; June 20; Sp. p. 4088; Gaz. vol. 167; p. 712.
Plow-lift, Automatic steam and lever. J. C. Cairncross. No. 987,696; Mar. 28; Sp. p. 4089; Gaz. vol. 164; p. 750.
Plow-lifter. W. Procknow. No. 988,813; Apr. 4; Sp. p. 1118; Gaz. vol. 165; p. 178.
Plow-moldboard. A. Beange. No. 1,006,458; Oct. 24; Sp. p. 4186; Gaz. vol. 171; p. 753.
Plow, Motor-. W. A. Dawson. No. 982,480; Jan. 24; Sp. p. 5100; Gaz. vol. 162; p. 880.
Plow, Motor-. W. Strohmer. No. 987,652; Mar. 21; Sp. p. 3968; Gaz. vol. 164; p. 707.
Plow, Motor-. C. H. Köhn. No. 992,736; May 16; Sp. p. 4071; Gaz. vol. 166; p. 727.
Plow, Motor-. J. V. and T. E. Boyett. No. 996,559; June 27; Sp. p. 5393; Gaz. vol. 167; p. 944.
Plow, Motor-. J. Knudsen. No. 1,009,073; Nov. 21; Sp. p. 3225; Gaz. vol. 172; p. 572.
Plow, Motor disk. J. M. Henton. No. 1,004,167; Sept. 26; Sp. p. 4410; Gaz. vol. 170; p. 780.
Plow-motor guide-wheel. E. M. Wheelock. No. 986,615; Mar. 14; Sp. p. 1823; Gaz. vol. 164; p. 323.
Plow or cultivator, Siding. N. B. Dixon. No. 988,865; Apr. 4; Sp. p. 1213; Gaz. vol. 165; p. 194.
Plow-point. A. C. Schmucher. No. 994,792; June 13; Sp. p. 1517; Gaz. vol. 167; p. 279.
Plow-point holder. D. D. Conley. No. 1,006,724; Oct. 24; Sp. p. 4754; Gaz. vol. 171; p. 847.
Plow-point mount. H. H. Swindle. No. 989,729; Apr. 18; Sp. p. 3072; Gaz. vol. 165; p. 541.
Plow, Reversible. F. Koch. No. 1,002,283; Sept. 5; Sp. p. 222; Gaz. vol. 170; p. 29.
Plow, Reversible. C. Cižek. No. 1,010,117; Nov. 28; Sp. p. 5449; Gaz. vol. 172; p. 976.
Plow, Reversible disk. A. P. McKay. No. 987,477; Mar. 21; Sp. p. 3631; Gaz. vol. 164; p. 647.
Plow riding attachment. J. S. White. No. 985,960; Mar. 7; Sp. p. 431; Gaz. vol. 164; p. 69.
Plow, River disk. C. E. Eacrett. No. 982,709; Jan. 24; Sp. p. 5551; Gaz. vol. 162; p. 956.
Plow-shovel fastener. C. E. Logan and A. R. Barnett. No. 991,158; May 2; Sp. p. 707; Gaz. vol. 166; p. 120.
Plow standard and brace, Pivoted. W. A. Pledger, Jr., and A. L. Campbell. No. 987,487; Mar. 21; Sp. p. 3651; Gaz. vol. 164; p. 650.
Plow, Steam-. W. N. Springer. No. 998,267; July 18; Sp. p. 3631; Gaz. vol. 168; p. 649.
Plow, Steam gang-. W. N. Springer. No. 982,448; Jan. 24; Sp. p. 5035; Gaz. vol. 162; p. 869.
Plow-stock. W. F. Hester. No. 1,008,035; Nov. 7; Sp. p. 840; Gaz. vol. 172; p. 133.
Plow, Subsoil-. C. W. Hicks. No. 990,737; Apr. 25; Sp. p. 5326; Gaz. vol. 165; p. 919.
Plow, Subsoil-. C. W. Hicks. No. 990,738; Apr. 25; Sp. p. 5328; Gaz. vol. 165; p. 919.
Plow, Subsoil-. C. W. Hicks. No. 991,306; May 2; Sp. p. 1037; Gaz. vol. 166; p. 173.
Plow, Subsoil-. J. M. Brooks. No. 1,004,238; Sept. 26; Sp. p. 4552; Gaz. vol. 170; p. 805.
Plow, Sulky-. C. H. Melvin. No. 1,012,405; Dec. 19; Sp. p. 4481; Gaz. vol. 173; p. 768.
Plow, Traction-. H. W. Leavitt. No. 990,993; May 2; Sp. p. 347; Gaz. vol. 166; p. 60.
Plow, Traction-. G. Boettler. No. 1,004,139; Sept. 26; Sp. p. 4337; Gaz. vol. 170; p. 771.
Plow, Two-way. A. C. Lindgren. No. 999,323; Aug. 1; Sp. p. 245; Gaz. vol. 169; p. 46.
Plow, Wheel-. W. S. Nichols. No. 1,012,697; Dec. 26; Sp. p. 5095; Gaz. vol. 173; p. 913.
Plow, Wheeled. W. Sobey. No. 982,191; Jan. 17; Sp. p. 4454; Gaz. vol. 162; p. 747.
Plow, Wheeled. J. N. Tholl. No. 997,102; July 4; Sp. p. 1069; Gaz. vol. 168; p. 172.
Plow, Wheeled. A. C. Lindgren. No. 1,006,107; Oct. 17; Sp. p. 3358; Gaz. vol. 171; p. 600.
Plows, Anti-side-draft device for. W. W. McCall. No. 984,581; Feb. 21; Sp. p. 2887; Gaz. vol. 163; p. 514.
Plows, Combination attachment for. H. A. Wilberg. No. 1,005,389; Oct. 10; Sp. p. 1782; Gaz. vol. 171; p. 318.
Plows, Furrow-subsoil-breaking attachment for. A. Kenworthy. No. 991,855; May 9; Sp. p. 2195; Gaz. vol. 166; p. 392.
Plows, Pole attachment for sulky-. W. L. Paul. No. 992,585; May 16; Sp. p. 3777; Gaz. vol. 166; p. 675.
Plows, Reversible bearing for tree-. J. Porteous. No. 999,864; Aug. 8; Sp. p. 1334; Gaz. vol. 169; p. 257.
Plows, Row-gage for. L. S. Horton. No. 990,740; Apr. 25; Sp. p. 5332; Gaz. vol. 165; p. 920.
Plows, Wheel-guard for sulky or gang. T. Arbeiter. No. 985,492; Feb. 28; Sp. p. 4864; Gaz. vol. 163; p. 864.

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Plowing and harrowing machine, Rotary automobile. E. M. Quellennec. No. 988,030; Mar. 28; Sp. p. 4868; Gaz. vol. 164; p. 865.
Plowing and otherwise cultivating land, Implement for. T. C. Darby. No. 988,315; Apr. 4; Sp. p. 37; Gaz. vol. 165; p. 9.
Plowing-machine. P. E. Holt. No. 985,805; Mar. 7; Sp. p. 75; Gaz. vol. 164; p. 16.
Plowing-machine. D. F. Kuster and G. J. Niemann. No. 990,659; Apr. 25; Sp. p. 5152; Gaz. vol. 165; p. 893.
Plowing, pulverizing, and cultivating machine, Land. J. Q. A. Newsom. No. 980,881; Jan. 3; Sp. p. 1506; Gaz. vol. 162; p. 242.
Plowshare. J. F. C. Hodges. No. 989,361; Apr. 11; Sp. p. 2266; Gaz. vol. 165; p. 384.
Plowshare. F. Cochran. No. 1,005,416; Oct. 10; Sp. p. 1835; Gaz. vol. 171; p. 327.
Plowshare. P. McDermott. No. 1,005,729; Oct. 10; Sp. p. 2539; Gaz. vol. 171; p. 436.
Plug, Attachment-. T. A. C. Both. No. 985,775; Mar. 7; Sp. p. 17; Gaz. vol. 164; p. 5.
Plug, Attachment-. R. B. Benjamin. No. 988,298; Apr. 4; Sp. p. 7; Gaz. vol. 165; p. 4.
Plug, Attachment-. J. S. Crossley. No. 996,620; July 4; Sp. p. 55; Gaz. vol. 168; p. 10.
Plug, Attachment-. D. E. Bown. No. 1,001,808; Aug. 29; Sp. p. 5575; Gaz. vol. 169; p. 1022.
Plug, Attachment-. G. W. Goodridge. No. 1,005,023; Oct. 3; Sp. p. 993; Gaz. vol. 171; p. 166.
Plug, Attachment-. G. B. Thomas and F. E. Seeley. No. 1,010,984; Dec. 5; Sp. p. 1286; Gaz. vol. 173; p. 204.
Plug, Attachment-. R. B. Benjamin. No. 1,012,970; Dec. 26; Sp. p. 5734; Gaz. vol. 173; p. 1007.
Plug, Attachment-. R. S. Blake. No. 1,012,975; Dec. 26; Sp. p. 5744; Gaz. vol. 173; p. 1008.
Plug, Electrical attachment-. G. C. Marx. No. 1,000,101; Aug. 8; Sp. p. 1875; Gaz. vol. 169; p. 339.
Plug for volatile containers, Igniting-. S. S. Weil. No. 1,007,996; Nov. 7; Sp. p. 768; Gaz. vol. 172; p. 121.
Plug, Fusible. D. G. Foley. No. 989,901; Apr. 18; Sp. p. 3445; Gaz. vol. 165; p. 600.
Plug-inserting device. J. Glanz. No. 1,000,168; Aug. 8; Sp. p. 2018; Gaz. vol. 169; p. 361.
Plug or valve, Wash-out. W. Wafer. No. 1,008,093; Nov. 7; Sp. p. 956; Gaz. vol. 172; p. 154.
Plug-retainer. J. J. Taylor and L. K. Hoss. No. 990,508; Apr. 25; Sp. p. 4834; Gaz. vol. 165; p. 843.
Plug, Reverse attachment-. H. Hubbell. No. 994,516; June 6; Sp. p. 851; Gaz. vol. 167; p. 143.
Plug, Separable attachment-. H. Hubbell. No. 994,517; June 6; Sp. p. 852; Gaz. vol. 167; p. 144.
Plug socket, Multiple-. L. H. Figge. No. 991,289; May 2; Sp. p. 991; Gaz. vol. 166; p 167.
Plug, Testing-. J. Leisinger. No. 987,145; Mar. 21; Sp. p. 2894; Gaz. vol. 164; p. 531.
Plug, Wall-. R. L. Sanderson. No. 1,006,290; Oct. 17; Sp. p. 3807; Gaz. vol. 171; p. 667.
Plug, Waste-. A. Beck. No. 984,259; Feb. 14; Sp. p. 2206; Gaz. vol. 163; p. 372.
Plumb-bob. C. Joice. No. 995,872; June 20; Sp. p. 3897; Gaz. vol. 167; p. 676.
Plumb-bob. H. D. Airesman. No. 995,938; June 20; Sp. p. 4026; Gaz. vol. 167; p. 700.
Plumb-bob pocket. W. D. Cater. No. 982,476; Jan. 24; Sp. p. 5093; Gaz. vol. 162; p. 878.
Plumb for corners, pilasters, &c. C. O. Bethel. No. 987,424; Mar. 21; Sp. p. 3516; Gaz. vol. 164; p. 629.
Plumb-line. A. Johnson. No. 991,446; May 2; Sp. p. 1317; Gaz. vol. 166; p. 220.
Plumber's stand for vises, Foldable. A. Smith. No. 987,180; Mar. 21; Sp. p. 2998; Gaz. vol. 164; p. 545.
Plumber's trap. P. Gollner. No. 1,000,087; Aug. 8; Sp. p. 1849; Gaz. vol. 169; p. 334.
Plumbing-fixture. L. H. Pleins. No. 995,368: June 13; Sp. p. 2765; Gaz. vol. 167; p. 471.
Plumbing structure. C. F. Madden. No. 1,007,463; Oct. 31; Sp. p. 6392; Gaz. vol. 171; p. 1160.
Plumbing system. W. Keller. No. 991,852; May 9; Sp. p. 2191; Gaz. vol. 166; p. 390.
Plumbing system. G. A. Nilson. No. 993,095; May 23; Sp. p. 4863; Gaz. vol. 166; p. 883.
Plumbing system and fittings therefor. G. Beckway. No. 985,969; Mar. 7; Sp. p. 458; Gaz. vol. 164; p. 73.
Plumbing systems. Fitting for. H. L. Erck. No. 991,142; May 2; Sp. p. 666; Gaz. vol. 166; p. 113.
Plume. F. T. Schranck. No. 984,973; Feb. 21; Sp. p. 3684; Gaz. vol. 163; p. 650.
Plume, Imitation willow. D. Metzger. No. 1,009,433; Nov. 21; Sp. p. 4067; Gaz. vol. 172; p. 701.
Plume, Multiplex. E. W. Moch. No. 1,009,918; Nov. 28; Sp. p. 5027; Gaz. vol. 172; p. 908.
Plume-stems, Apparatus for coloring. E. W. Moch. No. 1,009,922; Nov. 28; Sp. p. 5031; Gaz. vol. 172; p. 908.
Plume-trimming device. E. W. Moch. No. 1,009,920; Nov. 28; Sp. p. 5029; Gaz. vol. 172; p. 908.
Plume-trimming device. E. W. Moch. No. 1,009,921; Nov. 28; Sp. p. 5030; Gaz. vol. 172; p. 908.
Plumes, Container for ostrich-. N. A. Seldin. No. 981,485; Jan. 10; Sp. p. 2979; Gaz. vol. 162; p. 484.
Plumes, Device for assembling fillers for compound. E. W. Moch. No. 1,009,919; Nov. 28; Sp. p. 5028; Gaz. vol. 172; p. 908.
Plunge-bath, Rotary. V. V. Messer. No. 984,956; Feb. 21; Sp. p. 3657; Gaz. vol. 163; p. 645.
Plunger, Clean-out. N. B. Griffith. No. 990,977; May 2; Sp. p. 316; Gaz. vol. 166; p. 55.
Plunger, Clean-out. N. B. Griffith. No. 1,004,161; Sept. 26; Sp. p. 4397; Gaz. vol. 170; p. 778.
Plungers, Antifriction device for lower ends of. L. Atwood. No. 987,666; Mar. 21; Sp. p. 4001; Gaz. vol. 164; p. 712.
Pneumatic action. H. Meyer. No. 1,002,072; Aug. 29; Sp. p. 6137; Gaz. vol. 169; p. 1109.
Pneumatic actions, Equalizer for. E. T. Turney. No. 988,409; Apr. 4; Sp. p. 258; Gaz. vol. 165; p. 42.
Pneumatic apparatus. J. Schwertner. No. 993,415; May 30; Sp. p. 5541; Gaz. vol. 166; p. 1019.
Pneumatic carpet-cleaner. E. E. Overholt. No. 985,694; Feb. 28; Sp. p. 5298; Gaz. vol. 163; p. 932.
Pneumatic carpet-cleaner. H. M. Sturgeon. No. 996,810; July 4; Sp. p. 427; Gaz. vol. 168; p. 71.
Pneumatic cleaner. C. B. Foster and W. W. Glidden. No. 983,988; Feb. 14; Sp. p. 1610; Gaz. vol. 163; p. 279.
Pneumatic cleaner. C. B. Gilmore. No. 1,009,499; Nov. 21; Sp. p. 4195; Gaz. vol. 172; p. 722.
Pneumatic cleaning apparatus. E. L. B. Zimmer. No. 985,965; Mar. 7; Sp. p. 449; Gaz. vol. 164; p. 72.
Pneumatic cleaning implement. R. C. Baker. No. 983,971; Feb. 14; Sp. p. 1553; Gaz. vol. 163; p. 273.
Pneumatic control device. L. F. Goodspeed. No. 1,004,016; Sept. 26; Sp. p. 4016; Gaz. vol. 170; p. 726.
Pneumatic control system. L. S. Nash. No. 1,001,429; Aug. 22; Sp. p. 4793; Gaz. vol. 169; p. 863.
Pneumatic conveying apparatus. C. W. Brown. No. 984,188; Feb. 14; Sp. p. 2012; Gaz. vol. 163; p. 346.
Pneumatic cushion for vehicles. L. R. Gruss. No. 985,162; Feb. 28; Sp. p. 4117; Gaz. vol. 163; p. 749.
Pneumatic cushion for vehicles. G. J. Bancroft. No. 1,003,579; Sept. 19; Sp. p. 3047; Gaz. vol. 170; p. 549.
Pneumatic cushion for vehicles. C. S. Gurney. No. 1,005,201; Oct. 10; Sp. p. 1349; Gaz. vol. 171; p. 249.
Pneumatic-despatch apparatus, Automatic power control for. E. A. Fordyce and C. S. Jennings. No. 1,009,400; Nov. 21; Sp. p. 3987; Gaz. vol. 172; p. 689.
Pneumatic-despatch-system carrier. C. S. Jennings. No. 984,816; Feb. 21; Sp. p. 3396; Gaz. vol. 163; p. 598.
Pneumatic-despatch systems, Receiving apparatus for. H. D. Waterhouse. No. 985,957; Mar. 7; Sp. p. 424; Gaz. vol. 164; p. 68.
Pneumatic-despatch-tube apparatus. J. G. Maclaren. No. 992,223; May 16; Sp. p. 2943; Gaz. vol. 166; p. 547.
Pneumatic-despatch-tube apparatus. C. F. Stoddard. No. 992,822; May 23; Sp. p. 4259; Gaz. vol. 166; p. 786.
Pneumatic-despatch-tube apparatus. L. G. Bartlett. No. 995,518; June 20; Sp. p. 3102; Gaz. vol. 167; p. 552.
Pneumatic-despatch-tube apparatus. L. G. Bartlett. No. 1,000,979; Aug. 22; Sp. p. 3812; Gaz. vol. 169; p. 711.
Pneumatic-despatch-tube apparatus. C. S. Jennings. No. 1,009,316; Nov. 21; Sp. p. 3772; Gaz. vol. 172; p. 657.
Pneumatic-despatch-tube system. F. H. Wolever. No. 983,793; Feb. 7; Sp. p. 1145; Gaz. vol. 163; p. 183.
Pneumatic-despatch-tube system F. H. Wolever. No. 1,008,627; Nov. 14; Sp. p. 2261; Gaz. vol. 172; p. 385.
Pneumatic dust-separator. I. H. Spencer. No. 999,269; Aug. 1; Sp. p. 147; Gaz. vol. 169; p. 28.
Pneumatic dust-separator. I. H. Spencer. No. 999,604; Aug. 1; Sp. p. 804; Gaz. vol. 169; p. 140.
Pneumatic elevator. G. and J. Bernert. No. 1,002,556; Sept. 5; Sp. p. 836; Gaz. vol. 170; p. 123.
Pneumatic jack. C. H. Letcher. No. 1,010,927; Dec. 5; Sp. p. 1175; Gaz. vol. 173; p. 184.
Pneumatic or vacuum cleaner. T. B. Downey. No. 1,006,921; Oct. 24; Sp. p. 5219; Gaz. vol. 171; p. 917.
Pneumatic separator. R. Moodie. No. 988,486; Apr. 4; Sp. p. 416; Gaz. vol. 165; p. 68.
Pneumatic separator. E. D. Maxwell. No. 1,006,249; Oct. 17; Sp. p. 3710; Gaz. vol. 171; p. 652.
Pneumatic-spoke wheel. A. H. Thibault. No. 1,007,901; Nov. 7; Sp. p. 575; Gaz. vol. 172; p. 89.
Pneumatic spring. A. W. Fritz. No. 1,009,498; Nov. 21; Sp. p. 4194; Gaz. vol. 172; p. 722.
Pneumatic systems, Connection for. I. H. Spencer. No. 981,706; Jan. 17; Sp. p. 3420; Gaz. vol. 162; p. 579.
Pneumatic transmission system. J. J. Stoetzel. No. 994,344; June 6; Sp. p. 494; Gaz. vol. 167; p. 85.
Pneumatic-tube apparatus, Carrier-buffer for. C. F. Stoddard. No. 992,823; May 23; Sp. p. 4262; Gaz. vol. 166; p. 787.
Pneumatic-tube-apparatus terminal. L. G. Bartlett. No. 992,147; May 16; Sp. p. 2797; Gaz. vol. 166; p. 521.
Pneumatic tubes, Protective cover for. F. Rosdorff. No. 996,796; July 4; Sp. p. 392; Gaz. vol. 168; p. 66.
Pneumatic wheel. O. P. Downing. No. 993,659; May 30; Sp. p. 6093; Gaz. vol. 166; p. 1104.
Pneumatic wheel. S. P. Cox. No. 1,003,238; Sept. 12; Sp. p. 2325; Gaz. vol. 170; p. 399.
Pneumatics, Leak-regulator for primary. M. Clark. No. 986,442; Mar. 14; Sp. p. 1452; Gaz. vol. 164; p. 262.
Pocket. C. Thomann. No. 1,007,505; Oct. 31; Sp. p. 6496; Gaz. vol. 171; p. 1175.

Alphabetical list of inventions—Continued.

Pocket-book. O. T. Porter. No. 983,085; Jan. 31; Sp. p. 6392; Gaz. vol. 162; p. 1111.
Pocket-book. W. F. Moore. No. 1,002,076; Aug. 29; Sp. p. 6145; Gaz. vol. 169; p. 1111.
Pocket-book holder. A. W. Campbell. No. 982,242; Jan. 24; Sp. p. 4566; Gaz. vol. 162; p. 794.
Pocket-book safety attachment. S. W. Wilson. No. 1,004,127; Sept. 26; Sp. p. 4310; Gaz. vol. 170; p. 766.
Pocket-case. G. E. Dean. No. 1,010,872; Dec. 5; Sp. p. 1057; Gaz. vol. 173; p. 165.
Pocket-coupling. E. P. Kinne. No. 1,009,975; Nov. 28; Sp. p. 5147; Gaz. vol. 172; p. 926.
Pocket, Detachable watch-. L. Cunningham. No. 1,003,711; Sept. 19; Sp. p. 3334; Gaz. vol. 170; p. 597.
Pocket, Garment-. D. Ginsburg. No. 987,564; Mar. 21; Sp. p. 3776; Gaz. vol. 164; p. 675.
Pocket, Garment-. J. Koretsky. No. 993,383; May 30; Sp. p. 5476; Gaz. vol. 166; p. 1008.
Pocket, Garment-. M. I. Shapiro. No. 999,888; Aug. 8; Sp. p. 1399; Gaz. vol. 169; p. 266.
Pocket, Garment-. W. S. Barker. No. 1,004,967; Oct. 3; Sp. p. 892; Gaz. vol. 171; p. 147.
Pocket-hanger. L. P. Wright. No. 1,007,019; Oct. 24; Sp. p. 5412; Gaz. vol. 171; p. 949.
Pocket-holder. M. J. Hurley. No. 1,006,851; Oct. 24; Sp. p. 5067; Gaz. vol. 171; p. 893.
Pocket-knife. W. M. Irick. No. 1,012,555; Dec. 19; Sp. p. 4773; Gaz. vol. 173; p. 820.
Pocket-knife, Take-down. C. H. White and R. A. Lett. No. 986,334; Mar. 7; Sp. p. 1205; Gaz. vol. 164; p. 195.
Pocket-knife, Take-down. C. H. White and R. A. Lett. No. 994,226; June 6; Sp. p. 259; Gaz. vol. 167; p. 44.
Pocket-knife, Take-down. C. H. White and R. A. Lett. No. 1,003,560; Sept. 19; Sp. p. 2976; Gaz. vol. 170; p. 543.
Pocket, Pencil-holding. J. Schwartz. No. 1,000,042; Aug. 8; Sp. p. 1704; Gaz. vol. 169; p. 318.
Pocket, Reinforced. J. Bernstein. No. 986,676; Mar. 14; Sp. p. 1951; Gaz. vol. 164; p. 344.
Pocket, Safety-. A. W. Fernans. No. 989,772; Apr. 18; Sp. p. 3167; Gaz. vol. 165; p. 556.
Pocket, Safety-. I. L. Lyons. No. 993,854; May 30; Sp. p. 6500; Gaz. vol. 166; p. 1171.
Pocket, Safety-. D. S. Hoffman. No. 1,011,433; Dec. 12; Sp. p. 2314; Gaz. vol. 173; p. 395.
Pocket, Secret. H. Rogers. No. 994,873; June 13; Sp. p. 1715; Gaz. vol. 167; p. 306.
Point-changing apparatus. D. D. Samaia. No. 990,907; May 2; Sp. p. 164; Gaz. vol. 166; p. 31.
Point-thrower. E. L. Penruddocke. No. 998,632; July 25; Sp. p. 4427; Gaz. vol. 168; p. 810.
Point-thrower. H. Shemwell. No. 998,645; July 25; Sp. p. 4457; Gaz. vol. 168; p. 814.
Poison for prairie-dogs. B. L. Jensen. No. 1,005,224; Oct. 10; Sp. p. 1405; Gaz. vol. 171; p. 257.
Poison-indicator. H. P. Stewart. No. 1,009,597; Nov. 21; Sp. p. 4378; Gaz. vol. 172; p. 754.
Poke, Animal-. C. C. Grimes. No. 985,798; Mar. 7; Sp. p. 62; Gaz. vol. 164; p. 14.
Poke, Animal-. D. D. Pace. No. 992,242; May 16; Sp. p. 3011; Gaz. vol. 166; p. 554.
Poke, Cattle-. C. F. Schepmann. No. 981,480; Jan. 10; Sp. p. 2968; Gaz. vol. 162; p. 482.
Poke, Cattle-. C. F. Schepmann. No. 1,004,914; Oct. 3; Sp. p. 805; Gaz. vol. 171; p. 129.
Pole. F. M. Wilcox. No. 986,335; Mar. 7; Sp. p. 1207; Gaz. vol. 164; p. 195.
Pole. C. J. Aschauer and W. H. Lienesch. No. 1,001,603; Aug. 29; Sp. p. 5131; Gaz. vol. 169; p. 952.
Pole and socket, Coupling. G. A. Hoffmann. No. 1,000,171; Aug. 8; Sp. p. 2026; Gaz. vol. 169; p. 363.
Pole attachment. L. E. Waterman. No. 1,000,652; Aug. 15; Sp. p. 3109; Gaz. vol. 169; p. 564.
Pole erector and setter. R. W. Scott. No. 982,443; Jan. 24; Sp. p. 5020; Gaz. vol. 162; p. 867.
Pole-protector. V. Konopinski. No. 985,605; Feb. 28; Sp. p. 5109; Gaz. vol. 163; p. 903.
Pole-protector. V. Konopinski. No. 985,681; Feb. 28; Sp. p. 5255; Gaz. vol. 163; p. 927.
Pole, Push-. A. Markin. No. 1,003,056; Sept. 12; Sp. p. 1923; Gaz. vol. 170; p. 332.
Pole-reversing switch and wiring system. O. R. and O. M. Simenson. No. 1,006,140; Oct. 17; Sp. p. 3454; Gaz. vol. 171; p. 613.
Pole stand, Electric-. D. A. Martin. No. 982,380; Jan. 24; Sp. p. 4876; Gaz. vol. 162; p. 844.
Pole, Telescoping. E. H. Stone and E. H. Griffith. No. 993,121; May 23; Sp. p. 4928; Gaz. vol. 166; p. 892.
Pole-tip. O. U. Peterson. No. 999,397; Aug. 1; Sp. p. 408; Gaz. vol. 169; p. 72.
Pole-tip. M. Martinson. No. 1,007,470; Oct. 31; Sp. p. 6403; Gaz. vol. 171; p. 1163.
Pole, Vehicle-. C. B. Schleicher. No. 986,316; Mar. 7; Sp. p. 1166; Gaz. vol. 164; p. 188.
Poles, Making tapering metal. E. E. Slick. No. 999,267; Aug. 1; Sp. p. 145; Gaz. vol. 169; p. 27.
Poles, Preserving wooden. J. D. Hilliard. No. 1,001,144; Aug. 22; Sp. p. 4201; Gaz. vol. 169; p. 769.
Police-leader. J. Malcolm. No. 980,651; Jan. 3; Sp. p. 1016; Gaz. vol. 162; p. 165.
Policeman's truncheon and extension pistol-barrel, Combination. J. G. Wallmann. No. 1,009,358; Nov. 21; Sp. p. 3870; Gaz. vol. 172; p. 673.
Polishing. P. Fireman. No. 1,006,375; Oct. 17; Sp. p. 3989; Gaz. vol. 171; p. 695.
Polishing and scrubbing machine. J. Herr. No. 1,011,954; Dec. 19; Sp. p. 3498; Gaz. vol. 173; p. 612.
Polishing apparatus. W. E. Nickerson. No. 998,257; July 18; Sp. p. 3591; Gaz. vol. 168; p. 644.
Polishing compound. C. S. Taylor. No. 983,783; Feb. 7; Sp. p. 1126; Gaz. vol. 163; p. 180.
Polishing curved surfaces, Device for. J. R. Richardson. No. 989,291; Apr. 11; Sp. p. 2121; Gaz. vol. 165; p. 362.
Polishing-mitten. W. R. Hollingshead. No. 981,192; Jan. 10; Sp. p. 2311; Gaz. vol. 162; p. 381.
Polyphase motor. S. Sparrow. No. 992,280; May 16; Sp. p. 3112; Gaz. vol. 166; p. 567.
Pommeling-machine. A. C. Fyfe. No. 990,539; Apr. 25; Sp. p. 4896; Gaz. vol. 165; p. 854.
Pool and billiard table, Combination. I. Freed. No. 982,421; Jan. 24; Sp. p. 4960; Gaz. vol. 162; p. 858.
Pool and billiard table leveler. J. J. Moore and P. C. McMahon. No. 1,006,974; Oct. 24; Sp. p. 5319; Gaz. vol. 171; p. 935.
Pool and billiard table register. A. E. Hovey. No. 1,000,091; Aug. 8; Sp. p. 1856; Gaz. vol. 169; p. 335.
Pool and billiard table stretcher. Y. M. Créchriou. No. 1,003,880; Sept. 19; Sp. p. 3669; Gaz. vol. 170; p. 652.
Pool and billiards, Marble. H. Beebee. No. 1,002,024; Aug. 29; Sp. p. 6049; Gaz. vol. 169; p. 1094.
Pool-register. M. T. Helms. No. 983,280; Feb. 7; Sp. p. 48; Gaz. vol. 163; p. 10.
Pool-table. W. H. Morris. No. 980,989; Jan. 10; Sp. p. 1853; Gaz. vol. 162; p. 309.
Pool-table. W. Fuld. No. 1,002,666; Sept. 5; Sp. p. 1069; Gaz. vol. 170; p. 161.
Pool-table pocket. W. J. Meeks. No. 1,005,266; Oct. 10; Sp. p. 1512; Gaz. vol. 171; p. 274.
Pool-table registering device. B. L. Epstein. No. 1,000,245; Aug. 8; Sp. p. 2178; Gaz. vol. 169; p. 388.
Pool-tables, Advertising-frame for. E. D. Watkins. No. 982,909; Jan. 31; Sp. p. 6002; Gaz. vol. 162; p. 1052.
Popcorn-parcher. W. D. Baird. No. 995,762; June 20; Sp. p. 3653; Gaz. vol. 167; p. 632.
Porous structures, Treatment of. J. C. Moore. No. 996,042; June 20; Sp. p. 4230; Gaz. vol. 167; p. 735.
Port attachment, Preëxhaust-. B. W. King. No. 1,008,039; Nov. 7; Sp. p. 847; Gaz. vol. 172; p. 135.
Portable closet, Folding. P. Cofrode. No. 997,270; July 11; Sp. p. 1418; Gaz. vol. 168; p. 261.
Portable drill. J. A. L. Pealing. No. 983,083; Jan. 31; Sp. p. 6387; Gaz. vol. 162; p. 1110.
Portable furnace. M. Davis. No. 1,008,406; Nov. 14; Sp. p. 1748; Gaz. vol. 172; p. 306.
Portable heater. F. B. Ellis and J. L. Walker. No. 986,272; Mar. 7; Sp. p. 1078; Gaz. vol. 164; p. 173.
Portable heater. O. C. Knipe. No. 991,729; May 9; Sp. p. 1950; Gaz. vol. 166; p. 350.
Portable house. J. D. Horton. No. 1,007,871; Nov. 7; Sp. p. 518; Gaz. vol. 172; p. 78.
Portfolio, Collecting-. W. Wittgenstein. No. 989,746; Apr. 18; Sp. p. 3118; Gaz. vol. 165; p. 548.
Portière. T. F. Hall. No. 1,001,756; Aug. 29; Sp. p. 5467; Gaz. vol. 169; p. 1005.
Post: *See* Advertising-post; Anchor-post; Binding-post; Bumping-post; Cement post; Clothes-line post; Concrete post; Concrete cement post; Concrete fence-post; Drill-post; Fence-post; Fence-tightening post; Lamp-post; Metallic post; Railway bumping-post; Spring binding-post.
Post. R. D. Redwine. No. 982,529; Jan. 24; Sp. p. 5200; Gaz vol. 162; p. 896.
Post and means for attaching wires thereto. J. W. Haddon. No. 982,957; Jan. 31; Sp. p. 6106; Gaz. vol. 162; p. 1067.
Post and pole and base therefor. M. H. Murray. No. 1,002,861; Sept. 12; Sp. p. 1507; Gaz. vol. 170; p. 266.
Post-bracket. C. J. Schnaus. No. 1,006,598; Oct. 24; Sp. p. 4521; Gaz. vol. 171; p. 805.
Post-cap. C. K. Ernst. No. 1,013,004; Dec. 26; Sp. p. 5822; Gaz. vol. 173; p. 1018.
Post-card. P. Hansel. No. 1,005,027; Oct. 3; Sp. p. 1002; Gaz. vol. 171; p. 167.
Post-card. R. I. Prichard. No. 1,008,195; Nov. 7; Sp. p. 1170; Gaz. vol. 172; p. 192.
Post-card rack. W. O. Kaiser and O. Klein. No. 986,177; Mar. 7; Sp. p. 880; Gaz. vol. 164; p. 142.
Post-card rack. W. C. Kaiser and O. Klein. No. 997,827; July 11; Sp. p. 2628; Gaz. vol. 168; p. 451.
Post-digger attachment. R. Weinreich. No. 1,010,548; Dec. 5; Sp. p. 319; Gaz. vol. 173; p. 51.
Post-driving machine. C. A. Gabriel. No. 997,613; July 11; Sp. p. 2106; Gaz. vol. 168; p. 375.
Post-hole digger. A. A. Pope. No. 992,120; May 9; Sp. p. 2715; Gaz. vol. 166; p. 480.
Post-hole digger. W. Wanamaker. No. 1,011,682; Dec. 12; Sp. p. 2902; Gaz. vol. 173; p. 485.
Post-hole-digging machine. W. E. Ward and F. Steines. No. 1,006,156; Oct. 17; Sp. p. 3488; Gaz. vol. 171; p. 619.

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Post-mold. G. W. Wallin. No. 986,957; Mar. 14; Sp. p. 2536; Gaz. vol. 164; p. 438.
Post-molding machine. A. W. Spooner. No. 997,100; July 4; Sp. p. 1066; Gaz. vol. 168; p. 172.
Post or bar. H. W. Yost. No. 986,258; Mar. 7; Sp. p. 1051; Gaz. vol. 164; p. 168.
Post or telegraph and telephone pole. H. E. Atchison. (Reissue.) No. 13,202; Feb. 14; Sp. p. 2745; Gaz. vol. 163; p. 459.
Posts, Anchoring-base for. P. T. Bailey. No. 980,736; Jan. 3; Sp. p. 1199; Gaz. vol. 162; p. 192.
Posts, Driving-cap for. M. Roovaart. No. 994,538; June 6; Sp. p. 908; Gaz. vol. 167; p. 150.
Posts, Holder for anchoring staples to cement. O. K. Dill. No. 1,009,487; Nov. 21; Sp. p. 4171; Gaz. vol. 172; p. 718.
Postal card and letter, Combination. H. Laake. No. 989,614; Apr. 18; Sp. p. 2841; Gaz. vol. 165; p. 502.
Postal card, Puzzle. C. B. Rosenberger. No. 984,302; Feb. 14; Sp. p. 2284; Gaz. vol. 163; p. 387.
Postal cash-sales receptacle. E. S. Walker. No. 991,567; May 9; Sp. p. 1592; Gaz. vol. 166; p. 294.
Posting-box. G. F. Watt. No. 1,009,360; Nov. 21; Sp. p. 3873; Gaz. vol. 172; p. 674.
Postmarking-machine. J. Rehak. No. 1,012,158; Dec. 19; Sp. p. 3968; Gaz. vol. 173; p. 685.
Pot: *See* Coffee-pot; Combination-pot; Fire-pot; Glass-pot; Percolator-pot; Plant and flower pot; Pouring-pot; Stove-pot; Stove and furnace fire-pot; Teapot; Tea and coffee pot; Tea or coffee pot; Transplanting-pot; Type-metal pot.
Pot-cover. L. Grilk. No. 993,163; May 23; Sp. p. 5009; Gaz. vol. 166; p. 904.
Pot-cover handle. A. N. Kimberley. No. 999,315; Aug. 1; Sp. p. 231; Gaz. vol. 169; p. 43.
Pot for containing beverages. T. H. Russell. No. 986,865; Mar. 14; Sp. p. 2353; Gaz. vol. 164; p. 408.
Pots and other vessels, Lid of cooking-. H. J. G. Adamson. No. 993,811; May 30; Sp. p. 6419; Gaz. vol. 166; p. 1157.
Potash from greensand, Obtaining. E. C. Eckel. No. 1,011,172; Dec. 12; Sp. p. 1745; Gaz. vol. 173; p. 304.
Potash salts and other products from silicious rocks, Extracting. E. Hart. No. 997,671; July 11; Sp. p. 2241; Gaz. vol. 168; p. 396.
Potash salts from feldspar, Obtaining. F. Thompson. No. 995,105; June 13; Sp. p. 2210; Gaz. vol. 167; p. 384.
Potash salts from seaweed, Obtaining. H. S. Firman. No. 1,010,403; Nov. 28; Sp. p. 6037; Gaz. vol. 172; p. 1069.
Potato-assorter. J. W. Wintermute. No. 996,549; June 27; Sp. p. 5378; Gaz. vol. 167; p. 941.
Potato-bug catcher. W. M. Lewis. No. 999,172; July 25; Sp. p. 5599; Gaz. vol. 168; p. 996.
Potato-bug collecting and destroying machine. A. C. Sloan. No. 990,672; Apr. 25; Sp. p. 5201; Gaz. vol. 165; p. 897.
Potato-bug collector. A. W. Shank. No. 1,001,998; Aug. 29; Sp. p. 6001; Gaz. vol. 169; p. 1086.
Potato-cleaning apparatus. B. J. Brouwer. No. 986,681; Mar. 14; Sp. p. 1962; Gaz. vol. 164; p. 345.
Potato-cutter. F. J. Brumbly and E. B. Aker. No. 995,054; June 13; Sp. p. 2116; Gaz. vol. 167; p. 367.
Potato-digger. A. L. Hoover. No. 980,953; Jan. 10; Sp. p. 1717; Gaz. vol. 162; p. 296.
Potato-digger. F. Dumas. No. 981,985; Jan. 17; Sp. p. 4064; Gaz. vol. 162; p. 678.
Potato-digger. J. Moreau. No. 986,077; Mar. 7; Sp. p. 686; Gaz. vol. 164; p. 110.
Potato-digger. G. Tefo. No. 989,442; Apr. 11; Sp. p. 2433; Gaz. vol. 165; p. 411.
Potato-digger. J. Moreau. No. 992,797; May 23; Sp. p. 4203; Gaz. vol. 166; p. 776.
Potato-digger. T. G. Herbert. No. 994,513; June 6; Sp. p. 846; Gaz. vol. 167; p. 142.
Potato-digger. F. Schulze. No. 997,013; July 4; Sp. p. 904; Gaz. vol. 168; p. 143.
Potato-digger. N. F. Walter. No. 998,433; July 18; Sp. p. 3994; Gaz. vol. 168; p. 708.
Potato-digger. A. Landin. No. 1,004,041; Sept. 26; Sp. p. 4091; Gaz. vol. 170; p. 736.
Potato-digger. C. W. Ford. No. 1,006,926; Oct. 24; Sp. p. 5229; Gaz. vol. 171; p. 919.
Potato-digger. J. Reuther. No. 1,008,673; Nov. 14; Sp. p. 2370; Gaz. vol. 172; p. 400.
Potato-digger. J. Fritz. No. 1,008,897; Nov. 14; Sp. p. 2832; Gaz. vol. 172; p. 476.
Potato-digger. J. Hist. No. 1,009,665; Nov. 21; Sp. p. 4501; Gaz. vol. 172; p. 775.
Potato digger and harvester. A. Amess. No. 1,010,106; Nov. 28; Sp. p. 5423; Gaz. vol. 172; p. 972.
Potato digger and loader. J. Fritz. No. 1,008,534; Nov. 14; Sp. p. 2053; Gaz. vol. 172; p. 350.
Potato digger and separator. W. J. Dunham and E. W. Peck. No. 983,694; Feb. 7; Sp. p. 950; Gaz. vol. 163; p. 150.
Potato-digger attachment. B. H. Potter. No. 1,005,304; Oct. 10; Sp. p. 1605; Gaz. vol. 171; p. 288.
Potato-diggers, Top-cutting mechanism for. A. Wichertjes. No. 1,003,680; Sept. 19; Sp. p. 3257; Gaz. vol. 170; p. 586.
Potato-digging machine. A. Wichertjes. No. 987,202; Mar. 21; Sp. p. 3056; Gaz. vol. 164; p. 554.
Potato-digging machine. S. Swanson. No. 988,835; Apr. 4; Sp. p. 1161; Gaz. vol. 165; p. 185.
Potato-digging machine. F. G. Bridger. No. 990,522; Apr. 25; Sp. p. 4859; Gaz. vol. 165; p. 848.
Potato-digging-machine attachment. E. L. Botts and D. Lucas. No. 992,936; May 23; Sp. p. 4526; Gaz. vol. 166; p. 828.
Potato-dropper. C. Schlueter. No. 998,405; July 18; Sp. p. 3947; Gaz. vol. 168; p. 699.
Potato-sorter. J. Thompson. No. 996,165; June 27; Sp. p. 4494; Gaz. vol. 167; p. 812.
Potatoes, Treating. C. Steffen. No. 1,006,312; Oct. 17; Sp. p. 3852; Gaz. vol. 171; p. 674.
Potentiometer. H. Gernsback. No. 988,456; Apr. 4; Sp. p. 353; Gaz. vol. 165; p. 57.
Poultry - duster, Automatic. F. H. Goodspeed. No. 1,003,136; Sept. 12; Sp. p. 2095; Gaz. vol. 170; p. 360.
Poultry-fountain. W. W. Chambers. No. 987,551; Mar. 21; Sp. p. 3757; Gaz. vol. 164; p. 671.
Poultry-fountain. H. Yung. No. 1,006,618; Oct. 24; Sp. p. 4560; Gaz. vol. 171; p. 813.
Poultry-house. P. Kubein. No. 982,435; Jan. 24; Sp. p. 4986; Gaz. vol. 162; p. 863.
Poultry-house. F. W. Howard. No. 1,004,169; Sept. 26; Sp. p. 4415; Gaz. vol. 170; p. 781.
Poultry-house passages, Closing device for. M. H. Perret. No. 997,153; July 4; Sp. p. 1178; Gaz. vol. 168; p. 190.
Poultry-insecticide applicator. A. F. Shuler. No. 988,669; Apr. 4; Sp. p. 812; Gaz. vol. 165; p. 131.
Poultry, Vermin-exterminator for. W. F. Crawford. No. 987,433; Mar. 21; Sp. p. 3533; Gaz. vol. 164; p. 631.
Pouring-pot. W. P. Tarrant. No. 1,005,582; Oct. 10; Sp. p. 2240; Gaz. vol. 171; p. 386.
Powder, Blasting-. G. M. Peters and M. F. Lindsley. No. 994,273; June 6; Sp. p. 357; Gaz. vol. 167; p. 61.
Powder-box. E. V. Heins. No. 980,893; Jan. 3; Sp. p. 1557; Gaz. vol. 162; p. 246.
Powder-box. B. F. Roehrig. No. 1,001,771; Aug. 29; Sp. p. 5495; Gaz. vol. 169; p. 1009.
Powder-box. B. F. Roehrig. No. 1,001,772; Aug. 29; Sp. p. 5496; Gaz. vol. 169; p. 1010.
Powder-box. B. F. Roehrig. No. 1,001,773; Aug. 29; Sp. p. 5497; Gaz. vol. 169; p. 1010.
Powder-box. W. Pike. No. 1,003,944; Sept. 19; Sp. p. 3845; Gaz. vol. 170; p. 675.
Powder compound, Nursery-. J. W. Brodbeck and C. J. Beekley. No. 992,937; May 23; Sp. p. 4528; Gaz. vol. 166; p. 828.
Powder container and dispenser. T. W. Foster. No. 1,006,075; Oct. 17; Sp. p. 3297; Gaz. vol. 171; p. 589.
Powder-disseminator. T. R. Treiber. No. 998,052; July 18; Sp. p. 3141; Gaz. vol. 168; p. 572.
Powder-divider. W. M. Burkle and W. C. Yeager. No. 993,436; May 30; Sp. p. 5594; Gaz. vol. 166; p. 1026.
Powder-dividing machine. P. H. Brown. No. 999,696; Aug. 1; Sp. p. 978; Gaz. vol. 169; p. 171.
Powder-duster. W. H. McKnight. No. 990,762; Apr. 25; Sp. p. 5379; Gaz. vol. 165; p. 928.
Powder, Graining-rolls for graining explosive. F. I. du Pont. No. 993,353; May 30; Sp. p. 5407; Gaz. vol. 166; p. 998.
Powder holder and distributer. J. F. Bowditch. No. 1,007,425; Oct. 31; Sp. p. 6312; Gaz. vol. 171; p. 1148.
Powdery materials, Apparatus for handling and packing. F. J. Heybach. No. 980,949; Jan. 10; Sp. p. 1708; Gaz. vol. 162; p. 295.
Power apparatus. D. W. Driscoll and J. A. Renniee. No. 1,003,440; Sept. 19; Sp. p. 2730; Gaz. vol. 170; p. 500.
Power apparatus. J. Preatka. No. 1,006,272; Oct. 17; Sp. p. 3758; Gaz. vol. 171; p. 661.
Power apparatus. J. C. Gates. No. 1,006,646; Oct. 24; Sp. p. 4609; Gaz. vol. 171; p. 822.
Power-applying mechanism. P. E. Muschick. No. 999,244; Aug. 1; Sp. p. 103; Gaz. vol. 169; p. 19.
Power-arrester. J. W. Novak. No. 986,203; Mar. 7; Sp. p. 929; Gaz. vol. 164; p. 150.
Power - controlling appliance. G. E. Franquist. No. 1,001,835; Aug. 29; Sp. p. 5633; Gaz. vol. 169; p. 1032.
Power-controlling mechanism. W. R. McKeen, Jr. No. 1,002,597; Sept. 5; Sp. p. 927; Gaz. vol. 170; p. 138.
Power device. T. A. Macdonald. No. 995,165; June 13; Sp. p. 2336; Gaz. vol. 167; p. 404.
Power-drill. D. L. McFarlane. No. 993,699; May 30; Sp. p. 6185; Gaz. vol. 166; p. 1118.
Power - driven machines, Reversing mechanism for. C. Fredrickson. No. 1,008,252; Nov. 7; Sp. p. 1300; Gaz. vol. 172; p. 213.
Power, Explosion apparatus for generating and developing. T. H. Holroyd. No. 1,008,912; Nov. 14; Sp. p. 2852; Gaz. vol. 172; p. 480.

Alphabetical list of inventions—Continued.

Power-factor controller. J. Pearson. No. 983,835; Feb. 7; Sp. p. 1246; Gaz. vol. 163; p. 198.
Power-feed lubricator. G. W. Carver. No. 997,964; July 18; Sp. p. 2944; Gaz. vol. 168; p. 540.
Power, Generating and regulating the generation of. G. M. S. Tait and C. Ellis. No. 998,655; July 25; Sp. p. 4477; Gaz. vol. 168; p. 817.
Power-generating system. J. M. W. Kitchen. No. 992,780; May 23; Sp. p. 4165; Gaz. vol. 166; p. 770.
Power generation and regulation system. H. B. Karlin. No. 1,010,769; Dec. 5; Sp. p. 835; Gaz. vol. 173; p. 130.
Power-generator. W. J. Neilson. No. 987,158; Mar. 21; Sp. p. 2936; Gaz. vol. 164; p. 536.
Power, Means for the transmission of. A. P. Schmucker. No. 1,008,202; Nov. 7; Sp. p. 1187; Gaz. vol. 172; p. 195.
Power mechanism. A. Sundh. No. 1,011,664; Dec. 12; Sp. p. 2878; Gaz. vol. 173; p. 481.
Power-motor. C. M. Rhodes. No. 984,025; Feb. 14; Sp. p. 1694; Gaz. vol. 163; p. 291.
Power plant. N. McCarty. No. 990,152; Apr. 18; Sp. p. 3969; Gaz. vol. 165; p. 685.
Power plant and crematory. V. M. Hyde. No. 994,002; May 30; Sp. p. 6787; Gaz. vol. 166; p. 1219.
Power plant, Fluid-pressure-. L. D. Lovekin. No. 1,008,726; Nov. 14; Sp. p. 2489; Gaz. vol. 172; p. 419.
Power-press. E. G. Jegge. No. 986,174; Mar. 7; Sp. p. 871; Gaz. vol. 164; p. 141.
Power-press. H. E. Derbyshire and A. A. Longaker. No. 986,809; Mar. 14; Sp. p. 2235; Gaz. vol. 164; p. 387.
Power-press. G. A. Ohl, Jr. No. 1,000,688; Aug. 15; Sp. p. 3180; Gaz. vol. 169; p. 576.
Power-press. G. A. Ohl, Jr. No. 1,004,066; Sept. 26; Sp. p. 4144; Gaz. vol. 170; p. 745.
Power-register. C. L. Barnhart. No. 1,000,885; Aug. 15; Sp. p. 3594; Gaz. vol. 169; p. 646.
Power-shovel. S. M. Bishop. No. 991,194; May 2; Sp. p. 785; Gaz. vol. 166; p. 133.
Power-shovel. W. M. Hale. No. 993,059; May 23; Sp. p. 4783; Gaz. vol. 166; p. 870.
Power system. J. W. Kirkland. No. 992,209; May 16; Sp. p. 2921; Gaz. vol. 166; p. 543.
Power system. A. H. Olmsted. No. 992,583; May 16; Sp. p. 3771; Gaz. vol. 166; p. 674.
Power system. W. E. Adams. No. 1,008,770; Nov. 14; Sp. p. 2587; Gaz. vol. 172; p. 434.
Power-transferring device. H. C. Warren. No. 1,003,017; Sept. 12; Sp. p. 1849; Gaz. vol. 170; p. 320.
Power-translating mechanism. G. Cassady. No. 1,001,816; Aug. 29; Sp. p. 5589; Gaz. vol. 169; p. 1025.
Power-transmission apparatus. L. B. May. No. 985,427; Feb. 28; Sp. p. 4706; Gaz. vol. 163; p. 839.
Power-transmission apparatus. J. J. McGuire and H. H. Graham. No. 990,999; May 2; Sp. p. 360; Gaz. vol. 166; p. 62.
Power-transmission device. L. B. May. No. 981,096; Jan. 10; Sp. p. 2098; Gaz. vol. 162; p. 347.
Power-transmission device. W. Waring. No. 988,607; Apr. 4; Sp. p. 684; Gaz. vol. 165; p. 109.
Power-transmission device. A. F. Sturm. No. 994,616; June 6; Sp. p. 1067; Gaz. vol. 167; p. 178.
Power-transmission device. H. L. Phelps. No. 1,005,464; Oct. 10; Sp. p. 1944; Gaz. vol. 171; p. 343.
Power-transmission device. J. E. Bissell. No. 1,007,518; Oct. 31; Sp. p. 6522; Gaz. vol. 171; p. 1179.
Power-transmission device, Variable-speed. G. E. Cauderay and J. C. Chauve. No. 998,277; July 18; Sp. p. 3656; Gaz. vol. 168; p. 653.
Power transmission, Electrical. H. Kleinschmidt. No. 1,001,047; Aug. 22; Sp. p. 3999; Gaz. vol. 169; p. 735.
Power-transmission mechanism. H. H. Hardinge. No. 985,342; Feb. 28; Sp. p. 4505; Gaz. vol. 163; p. 811.
Power-transmission mechanism. W. E. Bock. No. 985,774; Mar. 7; Sp. p. 12; Gaz. vol. 164; p. 5.
Power-transmission mechanism. E. S. Morrow and C. M. Simmons. No. 988,729; Apr. 4; Sp. p. 955; Gaz. vol. 165; p. 151.
Power-transmission mechanism. W. E. Bock. No. 990,099; Apr. 18; Sp. p. 3855; Gaz. vol. 165; p. 667.
Power-transmission mechanism. W. E. Bock. No. 990,100; Apr. 18; Sp. p. 3859; Gaz. vol. 165; p. 667.
Power-transmission mechanism. H. L. Bock. No. 990,101; Apr. 18; Sp. p. 3864; Gaz. vol. 165; p. 668.
Power-transmission mechanism. W. E. Bock. No. 990,190; Apr. 18; Sp. p. 4059; Gaz. vol. 165; p. 698.
Power-transmission mechanism. E. James. No. 990,814; Apr. 25; Sp. p. 5490; Gaz. vol. 165; p. 946.
Power-transmission mechanism. T. R. Ryszka. No. 994,874; June 13; Sp. p. 1716; Gaz. vol. 167; p. 306.
Power-transmission mechanism. F. H. Armstrong. No. 997,031; July 4; Sp. p. 939; Gaz. vol. 168; p. 149.
Power-transmission mechanism. J. E. Beckman. No. 998,831; July 25; Sp. p. 4882; Gaz. vol. 168; p. 879.
Power-transmission mechanism. B. F. Lambert. No. 1,008,831; Nov. 14; Sp. p. 2704; Gaz. vol. 172; p. 454.
Power-transmission mechanism. F. H. Morris. No. 1,011,830; Dec. 12; Sp. p. 3209; Gaz. vol. 173; p. 535.
Power-transmission mechanism, Frictional. M. B. Covert. No. 990,844; May 2; Sp. p. 36; Gaz. vol. 166; p. 9.
Power-transmission mechanism, Magnetically-controlled. A. Sundh. No. 983,949; Feb. 14; Sp. p. 1510; Gaz. vol. 163; p. 266.
Power-transmitting apparatus. J. Dunlop. No. 989,583; Apr. 18; Sp. p. 2773; Gaz. vol. 165; p. 492.
Power-transmitting apparatus. F. H. Summeril. No. 990,171; Apr. 18; Sp. p. 4011; Gaz. vol. 165; p. 691.
Power-transmitting apparatus, Hydraulic. C. R. Radcliffe. No. 984,849; Feb. 21; Sp. p. 3451; Gaz. vol. 163; p. 610.
Power-transmitting device. A. Sundh. No.986,414; Mar. 7; Sp. p. 1383; Gaz. vol. 164; p. 223.
Power-transmitting device. G. E. Molyneux. No. 987,640; Mar. 21; Sp. p. 3943; Gaz. vol. 164; p. 702.
Power-transmitting device. R. H. Strother. No. 1,002,880; Sept. 12; Sp. p. 1574; Gaz. vol. 170; p. 273.
Power-transmitting jack. G. E. Wunder. No. 1,006,169; Oct. 17; Sp. p. 3523; Gaz. vol. 171; p. 624.
Power-transmitting machine. J. T. Hume. No. 992,131; May 9; Sp. p. 2737; Gaz. vol. 166; p. 484.
Power-transmitting mechanism. A. F. Mais. No. 981,934; Jan. 17; Sp. p. 3956; Gaz. vol. 162; p. 661.
Power-transmitting mechanism. R. Herman. No. 983,444; Feb. 7; Sp. p. 392; Gaz. vol. 163; p. 65.
Power-transmitting mechanism. R. Herman. No. 983,445; Feb. 7; Sp. p. 402; Gaz. vol. 163; p. 65.
Power-transmitting mechanism. J. F. Bartosik. No. 984,526; Feb. 21; Sp. p. 2776; Gaz. vol. 163; p. 496.
Power-transmitting mechanism. C. J. Menges. No 992,577; May 16; Sp. p. 3755; Gaz. vol. 166; p. 672.
Power-transmitting mechanism. J. O. Schwartz. No. 994,037; May 30; Sp. p. 6858; Gaz. vol. 166; p. 1232.
Power-transmitting mechanism. C. A. Rich. No. 997,700; July 11; Sp. p. 2295; Gaz. vol. 168; p. 407.
Power-transmitting mechanism. T. Bickford. No. 1,003,027; Sept. 12; Sp. p. 1870; Gaz. vol. 170; p. 323.
Power-transmitting mechanism. W. McHaffie. No. 1,007,222; Oct. 31; Sp. p. 5891; Gaz. vol. 171; p. 1076.
Power-transmitting mechanism. W. L. Mann. No. 1,009,846; Nov. 28; Sp. p. 4894; Gaz. vol. 172; p. 884.
Power-transmitting mechanism. A. Sundh. No. 1,010,976; Dec. 5; Sp. p. 1270; Gaz. vol. 173; p. 201.
Power-transmitting mechanism, Electromagnetic. A. J. Bowie, Jr. No. 982,789; Jan. 31; Sp. p. 5729; Gaz. vol. 162; p. 1011.
Power-transmitting mechanism, Mechanically-controlled. A. Sundh. No. 983,950; Feb. 14; Sp. p. 1517; Gaz. vol. 163; p. 267.
Power-transmitting mechanism, Variable-speed. W. Conine. No. 989,946; Apr. 18; Sp. p. 3557; Gaz. vol. 165; p. 617.
Power-transmitting mechanism, Variable-speed. C. Johnson and C. Frank. No. 1,011,623; Dec. 12; Sp. p. 2798; Gaz. vol. 173; p. 466.
Power-wheel. W. H. Fieroe. No. 985,152; Feb. 28; Sp. p. 4097; Gaz. vol. 163; p. 746.
Power-wheel. H. S. Barton and G. E. Baumgardner. No. 1,011,902; Dec. 19; Sp. p. 3388; Gaz. vol. 173; p. 594.
Precious metals, Apparatus for obtaining. J. R. Parks. No. 984,842; Feb. 21; Sp. p. 3440; Gaz. vol. 163; p. 607.
Precious metals from associated materials, Apparatus for separating. F. H. Prentiss. No. 985,447; Feb. 28; Sp. p. 4759; Gaz. vol. 163; p. 846.
Precious metals from associated materials, Apparatus for separating. F. H. Prentiss. No. 995,718; June 20; Sp. p. 3537; Gaz. vol. 167; p. 623.
Precious metals from their ores, Composition of matter to be used in extracting. H. Foersterling. No. 999,215; Aug. 1; Sp. p. 45; Gaz. vol. 169; p. 10.
Precious metals, gold and silver, from their native ores, Mixture or composition for use in the art of extracting the. W. D. Rennie. No. 989,803; Apr. 18; Sp. p. 3248; Gaz. vol. 165; p. 568.
Precious metals, gold and silver, from their native ores, Mixture or composition for use in the art of extracting the. W. D. Rennie. No. 989,804; Apr. 18; Sp. p. 3249; Gaz. vol. 165; p. 568.
Precious stones, Apparatus for the examination of. F. Salé. No. 1,001,991; Aug. 29; Sp. p. 5992; Gaz. vol. 169; p. 1084.
Precipitates in settling vessels, Compression of. F. Tiemann. No. 1,007,823; Nov. 7; Sp. p. 393; Gaz. vol. 172; p. 62.
Prepayment-meter. F. J. Beaumont. No. 1,008,108; Nov. 7; Sp. p. 992; Gaz. vol. 172; p. 160.
Preservative-preparing apparatus. J. T. Hall. No. 1,004,252; Sept. 26; Sp. p. 4578; Gaz. vol. 170; p. 809.
Preserve jar and bottle. A. H. Walcott. No. 992,928; May 23; Sp. p. 4499; Gaz. vol. 166; p. 825.
Preserving and shipping receptacle. L. and J. S. Auerbach. No. 983,866; Feb. 14; Sp. p. 1333; Gaz. vol. 163; p. 239.
Preserving bivalves. E. F. Hulbert. No. 989,154; Apr. 11; Sp. p. 1818; Gaz. vol. 165; p. 315.
Preserving corn. J. H. Schneider. No. 1,000,041; Aug. 8; Sp. p. 1704; Gaz. vol. 169; p. 318.
Preserving corn. B. F. Johnson. No. 1,004,033; Sept. 26; Sp. p. 4068; Gaz. vol. 170; p. 733.
Preserving food products. F. Cowin. No. 990,113; Apr. 18; Sp. p. 3886; Gaz. vol. 165; p. 671.
Preserving fruit. W. L. Lodge. No. 1,009,325; Nov. 21; Sp. p. 3800; Gaz. vol. 172; p. 662.

Press: *See* Asphalt-press; Baling-press; Ball-press; Box-press; Box-lid press; Brick-press; Briquet-press; Broom-corn press; Bundling-press; Cider-press; Clay-press; Copying-press; Corrugating-press; Cotton-press; Cotton tie-press; Cuff-press; Cuff-forming press; Double-compression press; Drawing-press; Drill-press; Embossing-press; Filter-press; Fodder-press; Forging-press; Forming-press; Fruit-press; Fruit-box press; Fuel-press; Hat-press; Hay-press; Hydraulic press; Matrix-press; Matrix-drying press; Metal-stamping press; Oil-press; Oil-cake press; Paper-press; Platen-press; Power-press; Printing-press; Proof-press; Pulp-press; Punch-press; Reciprocating and rotary press; Revolving press; Ribbon-press; Roller-press; Screw-press; Seal-press; Shingle-press; Stamping and other press; Tablet-forming press; Tailor's press; Tankage and manure press; Tobacco-press; Upsetting-press; Vegetable or meat press; Vulcanizer-press; Vulcanizing-press; Welding-press; Wine-press.
Press. J. Thomson. No. 980,455; Jan. 3; Sp. p. 591; Gaz. vol. 162; p. 98.
Press. J. Thomson. No. 980,456; Jan. 3; Sp. p. 595; Gaz. vol. 162; p. 98.
Press. F. J. Perkins. No. 981,468; Jan. 10; Sp. p. 2948; Gaz. vol. 162; p. 478.
Press. A. L. Jenkins. No. 983,059; Jan. 31; Sp. p. 6344; Gaz. vol. 162; p. 1102.
Press. H. C. Dreisvogt. No. 983,218; Jan. 31; Sp. p. 6638; Gaz. vol. 162; p. 1155.
Press. R. W. Hardie. No. 985,756; Feb. 28; Sp. p. 5440; Gaz. vol. 163; p. 954.
Press. F. H. Palmer and J. P. Smith. No. 986,496; Mar. 14; Sp. p. 1576; Gaz. vol. 164; p. 280.
Press. G. D. Parker. No. 986,589; Mar. 14; Sp. p. 1768; Gaz. vol. 164; p. 313.
Press. C. N. Frey. No. 986,628; Mar. 14; Sp. p. 1842; Gaz. vol. 164; p. 327.
Press. J. J. Berrigan. No. 994,632; June 6; Sp. p. 1108; Gaz. vol. 167; p. 183.
Press. H. Antoine. No. 995,516; June 20; Sp. p. 3099; Gaz. vol. 167; p. 551.
Press. F. Loy. No. 1,001,868; Aug. 29; Sp. p. 5703; Gaz. vol. 169; p. 1043.
Press. G. E. Whitney. No. 1,003,561; Sept. 19; Sp. p. 2979; Gaz. vol. 170; p. 543.
Press. H. H. Eaton. No. 1,004,757; Oct. 3; Sp. p. 450; Gaz. vol. 171; p. 75.
Press. A. Bates. No. 1,005,139; Oct. 10; Sp. p. 1203; Gaz. vol. 171; p. 226.
Press. F. P. Renneburg. No. 1,005,472; Oct. 10; Sp. p. 1958; Gaz. vol. 171; p. 346.
Press. F. Ashworth. No. 1,006,453; Oct. 24; Sp. p. 4160; Gaz. vol. 171; p. 752.
Press. F. Orton. No. 1,007,792; Nov. 7; Sp. p. 322; Gaz. vol. 172; p. 51.
Press. I. C. Buckminster. No. 1,010,476; Dec. 5; Sp. p. 158; Gaz. vol. 173; p. 28.
Press connection. C. J. Nelson. No. 995,478; June 20; Sp. p. 3020; Gaz. vol. 167; p. 537.
Press-feeding mechanism. N. Sebba. No. 1,002,934; Sept. 12; Sp. p. 1694; Gaz. vol. 170; p. 893.
Press for beet-pulp and the like. G. and A. Le Docte. No. 1,004,283; Sept. 26; Sp. p. 4630; Gaz. vol. 170; p. 819.
Press for plastic material. W. B. Updegraff. No. 989,211; Apr. 11; Sp. p. 1928; Gaz. vol. 165; p. 334.
Press for plastic materials. W. B. Updegraff. No. 994,349; June 6; Sp. p. 505; Gaz. vol. 167; p. 87.
Press-head. C. Naegelen. No. 1,002,173; Aug. 29; Sp. p. 6320; Gaz. vol. 169; p. 1142.
Press-roll. S. E. Warren. No. 1,006,990; Oct. 24; Sp. p. 5357; Gaz. vol. 171; p. 940.
Presses, Bed-motion for two-revolution flat-bed. M. A. Droitcour. No. 1,006,733; Oct. 24; Sp. p. 4772; Gaz. vol. 171; p. 850.
Presses, Housing for roller-straightening. C. D. Dishong. No. 987,443; Mar. 21; Sp. p. 3558; Gaz. vol. 164; p. 634.
Presses, Ink-drier and static-charge reducer for. M. L. Lane. No. 991,860; May 9; Sp. p. 2203; Gaz. vol. 166; p. 393.
Presses, Metal-bending attachment for. H. C. Sprengle. No. 1,002,329; Sept. 5; Sp. p. 335; Gaz. vol. 170; p. 47.
Presser, Electric garment-. J. Bloch. No. 997,953; July 18; Sp. p. 2925; Gaz. vol. 168; p. 537.
Presser-foot. W. Arbetter. No. 996,192; June 27; Sp. p. 4608; Gaz. vol. 167; p. 822.
Presser-foot mechanism. E. E. Winkley. No. 980,726; Jan. 3; Sp. p. 1183; Gaz. vol. 162; p. 188.
Presser for neckties and other articles, Electric. J. Bloch. No. 997,954; July 18; Sp. p. 2927; Gaz. vol. 168; p. 537.
Pressing and creasing iron. T. P. Moore. No. 1,003,194; Sept. 12; Sp. p. 2223; Gaz. vol. 170; p. 382.
Pressing and creasing irons. H. R. Schweinler. No. 999,601; Aug. 1; Sp. p. 799; Gaz. vol. 169; p. 139.
Pressing and rolling machine. S. S. Knight. No. 1,005,231; Oct. 10; Sp. p. 1422; Gaz. vol. 171; p. 260.
Pressing-irons. F. A. Mills. No. 999,581; Aug. 1; Sp. p. 767; Gaz. vol. 169; p. 133.
Pressing-machine. C. A. Oveson. No. 985,280; Feb. 28; Sp. p. 4386; Gaz. vol. 163; p. 791.
Pressing-machine. G. A. Kimber. No. 991,518; May 9; Sp. p. 1475; Gaz. vol. 166; p. 276.
Pressing-machine. A. Lasance. No. 998,251; July 18; Sp. p. 3582; Gaz. vol. 168; p. 642.
Pressing-machine. O. Schrom. No. 1,004,697; Oct. 3; Sp. p. 312; Gaz. vol. 171; p. 54.
Pressing-machine, Tailor's. S. G. Buskard. No. 1,009,955; Nov. 28; Sp. p. 5106; Gaz. vol. 172; p. 921.
Pressing-machines, Moisture collecting and conducting device for. C. A. Smith. No. 980,687; Jan. 3; Sp. p. 1107; Gaz. vol. 162; p. 177.
Pressing-machines, Steam-diffusing device for. E. C. Grever. No. 1,000,597; Aug. 15; Sp. p. 2982; Gaz. vol. 169; p. 545.
Pressure and damper regulator. J. B. Bischoff. No. 987,610; Mar. 21; Sp. p. 3880; Gaz. vol. 164; p. 691.
Pressure-balancing means. O. P. Ostergren. No. 1,001,677; Aug. 29; Sp. p. 5292; Gaz. vol. 169; p. 978.
Pressure chamber, Variable-. H. P. Tank. No. 995,497; June 20; Sp. p. 3053; Gaz. vol. 167; p. 544.
Pressure-control apparatus, Duplex. W. V. Turner. No. 997,523; July 11; Sp. p. 1915; Gaz. vol. 168; p. 343.
Pressure-control apparatus, Duplex. W. V. Turner and W. M. Cady. No. 1,012,758; Dec. 26; Sp. p. 5215; Gaz. vol. 173; p. 935.
Pressure-creating apparatus, Centrifugal. K. Kiefer. No. 1,001,648; Aug. 29; Sp. p. 5216; Gaz. vol. 169; p. 967.
Pressure-fluid and power supplying mechanism. E. P. Noyes and S. A. Reeve. No. 1,002,862; Sept. 12; Sp. p. 1509; Gaz. vol. 170; p. 267.
Pressure-gage. J. Dewrance. No. 987,219; Mar. 21; Sp. p. 3085; Gaz. vol. 164; p. 559.
Pressure-gage. M. Gehre. No. 994,669; June 6; Sp. p. 1202; Gaz. vol. 167; p. 195.
Pressure gage, Differential-. W. R. Brown. No. 1,001,810; Aug. 29; Sp. p. 5579; Gaz. vol. 169; p. 1023.
Pressure gage, Differential-. W. H. Bristol. No. 1,003,229; Sept. 12; Sp. p. 2306; Gaz. vol. 170; p. 395.
Pressure gage, Differential-. W. G. Kent and J. L. Hodgson. No. 1,006,100; Oct. 17; Sp. p. 3347; Gaz. vol. 171; p. 597.
Pressure gage, Pneumatic-. O. Olsen. No. 984,153; Feb. 14; Sp. p. 1948; Gaz. vol. 163; p. 334.
Pressure gage, Pneumatic-. O. Olsen. No. 996,358; June 27; Sp. p. 4981; Gaz. vol. 167; p. 877.
Pressure-gage, Pocket. F. Schubert. No. 994,878; June 13; Sp. p. 1728; Gaz. vol. 167; p. 308.
Pressure-gage, Registering and integrating. S. B. Bilbrough. No. 999,740; Aug. 8; Sp. p. 1086; Gaz. vol. 169; p. 216.
Pressure-generator, Internal-combustion. E. C. Warren. No. 981,339; Jan. 10; Sp. p. 2669; Gaz. vol. 162; p. 433.
Pressure-governor, Automatic. W. J. Richards. No. 983,933; Feb. 14; Sp. p. 1479; Gaz. vol. 163; p. 261.
Pressure indicating and recording apparatus. W. H. Bristol. No. 1,000,892; Aug. 15; Sp. p. 3605; Gaz. vol. 169; p. 648.
Pressure-indicator, Recording. A. S. Lyhne. No. 994,701; June 6; Sp. p. 1273; Gaz. vol. 167; p. 208.
Pressure-ratio alarm. A. W. K. Billings. No. 1,007,178; Oct. 31; Sp. p. 5797; Gaz. vol. 171; p. 1060.
Pressure-reducing gage. A. L. Koenig. No. 1,003,916; Sept. 19; Sp. p. 3730; Gaz. vol. 170; p. 665.
Pressure-regulator. T. W. Brown. No. 982,123; Jan. 17; Sp. p. 4338; Gaz. vol. 162; p. 724.
Pressure-regulator. C. G. Koppitz. No. 994,168; June 6; Sp. p. 132; Gaz. vol. 167; p. 24.
Pressure-retainer, Automatic. O. T. Johnson. No. 1,006,223; Oct. 17; Sp. p. 3653; Gaz. vol. 171; p. 643.
Pressure test-gage, Pocket. F. Schubert. No. 994,877; June 13; Sp. p. 1726; Gaz. vol. 167; p. 308.
Pressure testing device, High and low. D. McKenzie and W. J. Morrison. No. 982,520; Jan. 24; Sp. p. 5183; Gaz. vol. 162; p. 893.
Primary battery. C. B. Schoenmehl. No. 987,647; Mar. 21; Sp. p. 3955; Gaz. vol. 164; p. 705.
Primary battery. C. E. Hite. No. 996,764; July 4; Sp. p. 333; Gaz. vol. 168; p. 56.
Primary battery, Electric. F. W. Spanutius. No. 983,175; Jan. 31; Sp. p. 6549; Gaz. vol. 162; p. 1139.
Priming-bands, Machine for manufacturing. J. O. Prenzel. No. 1,012,434; Dec. 19; Sp. p. 4535; Gaz. vol. 173; p. 777.
Print-holding-frame gage. G. R. Olson. No. 1,005,869; Oct. 17; Sp. p. 2847; Gaz. vol. 171; p. 518.
Printed matter, Locking-frame for. S. Krausz. No. 992,675; May 16; Sp. p. 3951; Gaz. vol. 166; p. 704.
Printed products, Machine for assembling. E. P. Sheldon. No. 1,008,567; Nov. 14; Sp. p. 2126; Gaz. vol. 172; p. 363.
Printed products, Machine for assembling. E. P. Sheldon. No. 1,008,568; Nov. 14; Sp. p. 2131; Gaz. vol. 172; p. 364.
Printer and register, Ticket. O. A. Brown. No. 983,872; Feb. 14; Sp. p. 1344; Gaz. vol. 163; p. 241.
Printer's alining and measuring table. T. J. Sayles. No. 997,418; July 11; Sp. p. 1707; Gaz. vol. 168; p. 310.
Printer's blanket. A. F. Decker. No. 1,004,385; Sept. 26; Sp. p. 4837; Gaz. vol. 170; p. 854.
Printer's cabinet, Rotary. T. F. Haller. No. 986,975; Mar. 14; Sp. p. 2562; Gaz. vol. 164; p. 443.

Alphabetical list of inventions—Continued.

Printer's galley. A. H. Stockall. No. 990,676; Apr. 25; Sp. p. 5206; Gaz. vol. 165; p. 898.
Printer's galley. A. H. Stockall. No. 990,677; Apr. 25; Sp. p. 5207; Gaz. vol. 165; p. 899.
Printers' inking-rolls and the like, Compound for. G. Staunton. No. 1,000,634; Aug. 15; Sp. p. 3075; Gaz. vol. 169; p. 558.
Printer's lead and rule cutter. F. L. Elliott and G. E. Eckerstrom. No. 1,000,789; Aug. 15; Sp. p. 3402; Gaz. vol. 169; p. 611.
Printer's plate-hook. M. Hoge, P. C. Riebe, and J. W. Pitt. No. 989,153; Apr. 11; Sp. p. 1817; Gaz. vol. 165; p. 315.
Printer's quoin. H. J. Dockendorf. No. 992,485; May 16; Sp. p. 3567; Gaz. vol. 166; p. 639.
Printer's register-hook. W. F. Brügmann. No. 983,675; Feb. 7; Sp. p. 910; Gaz. vol. 163; p. 144.
Printer's registering device. W. S. Warnock. No. 1,007,163; Oct. 31; Sp. p. 5761; Gaz. vol. 171; p. 1054.
Printer's registering device. W. S. Warnock. No. 1,007,164; Oct. 31; Sp. p. 5764; Gaz. vol. 171; p. 1055.
Printers' rollers, Machine for cleaning. G. Sague. No. 1,002,322; Sept. 5; Sp. p. 317; Gaz. vol. 170; p. 44.
Printers' rollers, Making. C. S. Hadley. No. 985,164; Feb. 28; Sp. p. 4122; Gaz. vol. 163; p. 750.
Printer's rule, lead, and slug cutter. H. C. Hansen. No. 1,006,207; Oct. 17; Sp. p. 3619; Gaz. vol. 171; p. 637.
Printer's rule, lead, and slug cutter. H. C. Hansen. (Reissue.) No. 13,331; Dec. 5; Sp. p. 1630; Gaz. vol. 173; p. 258.
Printer's ruling-form. L. Quellmalz. No. 1,004,590; Oct. 3; Sp. p. 86; Gaz. vol. 171; p. 16.
Printer's tie-up. G. R. Smith. No. 984,976; Feb. 21; Sp. p. 3689; Gaz. vol. 163; p. 651.
Printer's tie-up. J. T. Barton. No. 1,012,185; Dec. 19; Sp. p. 4028; Gaz. vol. 173; p. 694.
Printing. E. L. Fell. No. 987,351; Mar. 21; Sp. p. 3364; Gaz. vol. 164; p. 604.
Printing. M. Schwarz. No. 992,270; May 16; Sp. p. 3095; Gaz. vol. 166; p. 564.
Printing and coating photographic postal cards, Machine for. C. W. Earle. No. 992,345; May 16; Sp. p. 3280; Gaz. vol. 166; p. 591.
Printing and delivering apparatus, Street-car-transfer. A. J. Meier. No. 994,685; June 6; Sp. p. 1235; Gaz. vol. 167; p. 201.
Printing and delivering machine, Ticket. J. M. Lipes. No. 994,081; May 30; Sp. p. 6950; Gaz. vol. 166; p. 1246.
Printing and other machines, Sheet-delivery mechanism of. H. Pearce and T. R. G. Parker. No. 1,009,091; Nov. 21; Sp. p. 3263; Gaz. vol. 172; p. 577.
Printing and other machines, Sheet-lay mechanism of. C. L. Stern and T. R. G. Parker. No. 1,002,332; Sept. 5; Sp. p. 341; Gaz. vol. 170; p. 48.
Printing and recording machine, Automatic check. W. Barr. No. 983,802; Feb. 7; Sp. p. 1160; Gaz. vol. 163; p. 186.
Printing and registering apparatus, Ticket. C. N. Fleischman. No. 981,920; Jan. 17; Sp. p. 3905; Gaz. vol. 162; p. 655.
Printing apparatus. L. M. Todd. No. 982,752; Jan. 24; Sp. p. 5645; Gaz. vol. 162; p. 968.
Printing apparatus. A. Waller. No. 985,479; Feb. 28; Sp. p. 4841; Gaz. vol. 163; p. 859.
Printing apparatus. G. G. Bain. No. 1,012,585; Dec. 26; Sp. p. 4853; Gaz. vol. 173; p. 874.
Printing apparatus. K. R. Huff. No. 1,013,018; Dec. 26; Sp. p. 5847; Gaz. vol. 173; p. 1023.
Printing apparatus controlled by perforated tape. F. G. Creed. No. 985,402; Feb. 28; Sp. p. 4631; Gaz. vol. 163; p. 830.
Printing apparatus, Sign-. D. Kaber. No. 987,992; Mar. 28; Sp. p. 4785; Gaz. vol. 164; p. 853.
Printing attachment for carton-crimping machines. G. W. Beadle. No. 996,827; July 4; Sp. p. 463; Gaz. vol. 168; p. 77.
Printing blocks and stamps, Making. A. J. Jarman. No. 1,000,916; Aug. 15; Sp. p. 3653; Gaz. vol. 169; p. 656.
Printing by sound. A. C. Ferguson. No. 999,975; Aug. 8; Sp. p. 1566; Gaz. vol. 169; p. 295.
Printing, Calico-. F. Davis. No. 984,545; Feb. 21; Sp. p. 2814; Gaz. vol. 163; p. 503.
Printing color attachment. I. L. Wild. No. 986,530; Mar. 14; Sp. p. 1641; Gaz. vol. 164; p. 292.
Printing-couple appliance. W. Scott. No. 981,951; Jan. 17; Sp. p. 3995; Gaz. vol. 162; p. 666.
Printing cylindric surfaces, Machine for. O. C. Egerton. No. 988,556; Apr. 4; Sp. p. 562; Gaz. vol. 165; p. 91.
Printing device. H. Krengel. No. 992,510; May 16; Sp. p. 3609; Gaz. vol. 166; p. 648.
Printing device for selvage-printing. C. R. Thomson. No. 1,012,480; Dec. 19; Sp. p. 4618; Gaz. vol. 173; p. 792.
Printing device, Intaglio and relief. H. A. W. Wood. No. 1,000,656; Aug. 15; Sp. p. 3120; Gaz. vol. 169; p. 565.
Printing device, Ticket-. N. E. Sprinsteen. No. 991,660; May 9; Sp. p. 1805; Gaz. vol. 166; p. 328.
Printing device, Ticket-. C. Manshel. No. 993,533; May 30; Sp. p. 5800; Gaz. vol. 166; p. 1060.
Printing-form. W. J. F. Maidhof. No. 998,190; July 18; Sp. p. 3442; Gaz. vol. 168; p. 621.
Printing-form. W. J. F. Maidhof. No. 1,003,482; Sept. 19; Sp. p. 2819; Gaz. vol. 170; p. 515.
Printing-frame. A. C. Hayden. No. 994,157; June 6; Sp. p. 105; Gaz. vol. 167; p. 20.
Printing-frame. B. L. Mickaelson. No. 994,529; June 6; Sp. p. 888; Gaz. vol. 167; p. 147.
Printing-machine. T. M. North. No. 980,825; Jan. 3; Sp. p. 1385; Gaz. vol. 162; p. 222.
Printing-machine. R. P. O'Brien. No. 982,014; Jan. 17; Sp. p. 4123; Gaz. vol. 162; p. 688.
Printing-machine. M. H. Mann. No. 982,515; Jan. 24; Sp. p. 5169; Gaz. vol. 162; p. 891.
Printing-machine. F. A. Treiber. No. 988,603; Apr. 4; Sp. p. 674; Gaz. vol. 165; p. 108.
Printing-machine. L. E. Morrison. No. 993,612; May 30; Sp. p. 5973; Gaz. vol. 166; p. 1087.
Printing-machine. W. Jackson. No. 994,590; June 6; Sp. p. 1014; Gaz. vol. 167; p. 169.
Printing-machine. A. B. Dick. No. 997,245; July 4; Sp. p. 1357; Gaz. vol. 168; p. 222.
Printing-machine. S. C. Cox. No. 1,000,997; Aug. 22; Sp. p. 3875; Gaz. vol. 169; p. 717.
Printing-machine. G. L. Martin. No. 1,005,565; Oct. 10; Sp. p. 2181; Gaz. vol. 171; p. 380.
Printing-machine. G. V. Fulk. No. 1,006,474; Oct. 24; Sp. p. 4212; Gaz. vol. 171; p. 759.
Printing-machine. O. Roesen. No. 1,007,008; Oct. 24; Sp. p. 5395; Gaz. vol. 171; p. 945.
Printing-machine. S. C. Davis. No. 1,007,433; Oct. 31; Sp. p. 6336; Gaz. vol. 171; p. 1150.
Printing-machine. W. Scott. No. 1,007,610; Oct. 31; Sp. p. 6725; Gaz. vol. 171; p. 1210.
Printing-machine. W. Scott. No. 1,007,895; Nov. 7; Sp. p. 562; Gaz. vol. 172; p. 87.
Printing-machine. W. Scott. No. 1,007,896; Nov. 7; Sp. p. 565; Gaz. vol. 172; p. 87.
Printing-machine. C. Butterfield. No. 1,009,647; Nov. 21; Sp. p. 4460; Gaz. vol. 172; p. 769.
Printing-machine. S. O. Edmonds. No. 1,010,880; Dec. 5; Sp. p. 1070; Gaz. vol. 173; p. 168.
Printing machine, Address-. I. R. Hutchinson. No. 980,642; Jan. 3; Sp. p. 989; Gaz. vol. 162; p. 162.
Printing-machine, Automatic. J. T. Corfield. No. 995,770; June 20; Sp. p. 3677; Gaz. vol. 167; p. 641.
Printing machine, Fabric-. J. Macadam. No. 984,228; Feb. 14; Sp. p. 2130; Gaz. vol. 163; p. 361.
Printing-machine gripping mechanism. L. E. Morrison. No. 993,613; May 30; Sp. p. 5980; Gaz. vol. 166; p. 1088.
Printing-machine, Hand. A. Svoboda. No. 1,006,987; Oct. 24; Sp. p. 5351; Gaz. vol. 171; p. 939.
Printing-machine ink-distributing mechanism. H. B. Cooley. No. 1,008,015; Nov. 7; Sp. p. 799; Gaz. vol. 172; p. 127.
Printing-machine offset mechanism. H. M. Barber. No. 991,818; May 9; Sp. p. 2129; Gaz. vol. 166; p. 379.
Printing-machine offset mechanism. H. M. Barber. No. 996,902; July 4; Sp. p. 632; Gaz. vol. 168; p. 103.
Printing-machine, Rotary lithographic offset. F. Waite. No. 1,012,485; Dec. 19; Sp. p. 4627; Gaz. vol. 173; p. 793.
Printing machine, Selvage-. R. Baird. No. 1,002,624; Sept. 5; Sp. p. 996; Gaz. vol. 170; p. 148.
Printing machine, Ticket-. T. M. Vaughan. No. 980,711; Jan. 3; Sp. p. 1159; Gaz. vol. 162; p. 184.
Printing machine, Ticket-. T. M. Vaughan. No. 984,403; Feb. 14; Sp. p 2477; Gaz. vol. 163; p. 419.
Printing machine, Web-. C. R. Gutsch. No. 981,923; Jan. 17; Sp. p. 3910; Gaz. vol. 162; p. 657.
Printing-machine web-roll support. E. W. Cooper. No. 995,587; June 20; Sp. p. 3268; Gaz. vol. 167; p. 577.
Printing machine, Yarn-. T. J. Kelly. No. 998,780; July 25; Sp. p. 4769; Gaz. vol. 168; p. 862.
Printing-machines, Means for driving the inking mechanism of rotary lithographic. F. Waite. No. 996,438; June 27; Sp. p. 5171; Gaz. vol. 167; p. 905.
Printing machinery. D. Greenhill. No. 991,845; May 9; Sp. p. 2176; Gaz. vol. 166; p. 388.
Printing machinery, Ink or color mechanism for. J. A. J. Hayes. No. 984,913; Feb. 21; Sp. p. 3576; Gaz. vol. 163; p. 631.
Printing-machinery inking mechanism. H. M. Barber. No. 992,475; May 16; Sp. p. 3549; Gaz. vol. 166; p. 636.
Printing mechanism. E. G. Ernst. No. 991,203; May 2; Sp. p. 798; Gaz. vol. 166; p. 136.
Printing mechanism. H. C. Gammeter. No. 999,023; July 25; Sp. p. 5327; Gaz. vol. 168; p. 948.
Printing mechanism. H. C. Gammeter. No. 1,006,544; Oct. 24; Sp. p. 4397; Gaz. vol. 171; p. 786.
Printing mechanism. G. D. Thompson. No. 1,010,093; Nov. 28; Sp. p. 5403; Gaz. vol. 172; p. 968.
Printing mechanism for adding-machines. J. C. Lotterhand. No. 985,042; Feb. 21; Sp. p. 3824; Gaz. vol. 163; p. 675.
Printing mechanism for cash-registers. W. F. Bockhoff and E. J. Von Pein. No. 985,138; Feb. 28; Sp. p. 4024; Gaz. vol. 163; p. 741.
Printing-meter. F. F. Kinney. No. 987,725; Mar. 28; Sp. p. 4155; Gaz. vol. 164; p. 760.
Printing on bottles, Machine for. J. Ranz. No. 1,012,156; Dec. 19; Sp. p. 3960; Gaz. vol. 173; p. 684.

Alphabetical list of inventions—Continued.

Printing on wood. E. Josz. (Reissue.) No. 13,214; Feb. 28; Sp. p. 5459; Gaz. vol. 163; p. 957.
Printing or other machine. I. A. Hunting. No. 998,340; July 18; Sp. p. 3808; Gaz. vol. 168; p. 677.
Printing-plate-casting apparatus, Stereotype-. H. A. W. Wood. No. 1,009,210; Nov. 21; Sp. p. 3531; Gaz. vol. 172; p. 619.
Printing-plate-casting apparatus, Stereotype-. H. A. W. Wood. No. 1,009,211; Nov. 21; Sp. p. 3537; Gaz. vol. 172; p. 619.
Printing-plate-casting apparatus, Stereotype-. H. A. W. Wood. No. 1,009,272; Nov. 21; Sp. p. 3682; Gaz. vol. 172; p. 642.
Printing-plate-casting apparatus, Stereotype-. H. A. W. Wood. No. 1,009,367; Nov. 21; Sp. p. 3895; Gaz. vol. 172; p. 676.
Printing-plate-casting machine, Stereotype-. H. A. W. Wood. No. 980,468; Jan. 3; Sp. p. 623; Gaz. vol. 162; p. 103.
Printing-plate-casting machine, Stereotype-. H. A. W. Wood. No. 1,009,207; Nov. 21; Sp. p. 3517; Gaz. vol. 172; p. 618.
Printing-plate-casting mechanism, Stereotype-. H. A. W. Wood. No. 1,009,208; Nov. 21; Sp. p. 3522; Gaz. vol. 172; p. 618.
Printing-plate-finishing mechanism, Stereotype-. H. A. W. Wood. No. 1,009,209; Nov. 21; Sp. p. 3526; Gaz. vol. 172; p. 618.
Printing-plate-finishing mechanism, Stereotype-. H. A. W. Wood. No. 1,009,271; Nov. 21; Sp. p. 3678; Gaz. vol. 172; p. 641.
Printing-plate-making apparatus. M. A. Droitcour. No. 993,970; May 30; Sp. p. 6715; Gaz. vol. 166; p. 1208.
Printing-plates and the like, Electrolytic production of. A. Leuchter. No. 1,003,187; Sept. 12; Sp. p. 2207; Gaz. vol. 170; p. 380.
Printing-plates and the like, Holder for. C. Owens and U. G. Lee. No. 983,081; Jan. 31; Sp. p. 6385; Gaz. vol. 162; p. 1109.
Printing-plates, Apparatus for registering. V. Royle. No. 983,648; Feb. 7; Sp. p. 843; Gaz. vol. 163; p. 135.
Printing-plates, Apparatus for toning. M. A. Droitcour. No. 1,005,772; Oct. 10; Sp. p. 2624; Gaz. vol. 171; p. 452.
Printing-plates for bending, Preparing. E. Flower. No. 992,121; May 9; Sp. p. 2716; Gaz. vol. 166; p. 481.
Printing-plates, Machine for making stereotype. H. A. W. Wood. No. 1,009,206; Nov. 21; Sp. p. 3500; Gaz. vol. 172; p. 617.
Printing-plates, Machinery for manufacturing curved. A. Egli. No. 998,081; July 18; Sp. p. 3211; Gaz. vol. 168; p. 582.
Printing-plates, Making. S. J. Kubel and A. H. Linsenmeyer. No. 980,290; Jan. 3; Sp. p. 209; Gaz. vol. 162; p. 41.
Printing-plates, Making. T. S. Fox. No. 1,008,023; Nov. 7; Sp. p. 816; Gaz. vol. 172; p. 129.
Printing-plates, Making ready. S. Weinwurm. No. 996,959; July 4; Sp. p. 748; Gaz. vol. 168; p. 123.
Printing-plates, Making toned. M. A. Droitcour. No. 985,664; Feb. 28; Sp. p. 5213; Gaz. vol. 163; p. 921.
Printing-plates, Manufacture of. M. A. Droitcour. No. 997,050; July 4; Sp. p. 973; Gaz. vol. 168; p. 155.
Printing-plates, Manufacture of. M. A. Droitcour. No. 1,009,390; Nov. 21; Sp. p. 3960; Gaz. vol. 172; p. 684.
Printing-plates, Means for holding and adjusting. G. C. Andrews. No. 998,448; July 18; Sp. p. 4018; Gaz. vol. 168; p. 713.
Printing-plates, Producing. A. Valentin and J. Zerreiss. No. 1,012,762; Dec. 26; Sp. p. 5224; Gaz. vol. 173; p. 936.
Printing-plates, Toning. M. A. Droitcour. No. 1,005,619; Oct. 10; Sp. p. 2313; Gaz. vol. 171; p. 399.
Printing-plates, Treatment of. M. A. McKee. No. 988,583; Apr. 4; Sp. p. 639; Gaz. vol. 165; p. 102.
Printing-press. J. Thomson. No. 980,451; Jan. 3; Sp. p. 584; Gaz. vol. 162; p. 97.
Printing-press. J. Thomson. No. 980,453; Jan. 3; Sp. p. 588; Gaz. vol. 162; p. 97.
Printing-press. J. Thomson. No. 980,454; Jan. 3; Sp. p. 590; Gaz. vol. 162; p. 98.
Printing-press. C. B. Swink. No. 980,850; Jan. 3; Sp. p. 1431; Gaz. vol. 162; p. 230.
Printing-press. A. T. H. Brower. No. 981,056; Jan. 10; Sp. p. 2027; Gaz. vol. 162; p. 333.
Printing-press. W. A. Ames. No. 982,199; Jan. 17; Sp. p. 4468; Gaz. vol. 162; p. 749.
Printing-press. M. A. Droitcour. No. 983,219; Jan. 31; Sp. p. 6640; Gaz. vol. 162; p. 1155.
Printing-press. G. P. Fenner. No. 983,698; Feb. 7; Sp. p. 957; Gaz. vol. 163; p. 151.
Printing-press. E. J. Casey. No. 989,334; Apr. 11; Sp. p. 2214; Gaz. vol. 165; p. 376.
Printing-press. R. Miehle. No. 989,385; Apr. 11; Sp. p. 2318; Gaz. vol. 165; p. 392.
Printing-press. E. J. and M. J. Barker and F. B. La Barr. No. 992,146; May 16; Sp. p. 2787; Gaz. vol. 166; p. 521.
Printing-press. D. W. Custer. No. 992,172; May 16; Sp. p. 2850; Gaz. vol. 166; p. 531.
Printing-press. T. Winlack. No. 993,429; May 30; Sp. p. 5580; Gaz. vol. 166; p. 1024.
Printing-press. R. Davis. No. 993,966; May 30; Sp. p. 6707; Gaz. vol. 166; p. 1207.
Printing-press. O. M. Howard. No. 998,848; July 25; Sp. p. 4918; Gaz. vol. 168; p. 885.
Printing-press. E. Baier. No. 1,004,229; Sept. 26; Sp. p. 4526; Gaz. vol. 170; p. 801.
Printing-press. L. Bakke. No. 1,006,176; Oct. 17; Sp. p. 3541; Gaz. vol. 171; p. 626.
Printing-press. G. Lidseen. No. 1,006,762; Oct. 24; Sp. p. 4847; Gaz. vol. 171; p. 861.
Printing-press. K. F. Kirkman. No. 1,007,209; Oct. 31; Sp. p. 5870; Gaz. vol. 171; p. 1071.
Printing-press. B. F. Upham. No. 1,009,115; Nov. 21; Sp. p. 3310; Gaz. vol. 172; p. 586.
Printing-press air-cushion. R. Miehle. No. 989,384; Apr. 11; Sp. p. 2315; Gaz. vol. 165; p. 391.
Printing-press attachment. G. E. Brannberg. No. 1,005,684; Oct. 10; Sp. p. 2457; Gaz. vol. 171; p. 421.
Printing-press attachment. A. L. Smith. No. 1,010,193; Nov. 28; Sp. p. 5589; Gaz. vol. 172; p. 1001.
Printing-press bed. R. T. Johnston. No. 1,010,918; Dec. 5; Sp. p. 1161; Gaz. vol. 173; p. 182.
Printing-press binding and folding machine. S. G. Goss. No. 988,567; Apr. 4; Sp. p. 588; Gaz. vol. 165; p. 95.
Printing-press brake. J. Thomson. No. 985,228; Feb. 28; Sp. p. 4275; Gaz. vol. 163; p. 773.
Printing-press collector. A. S. Allen. No. 1,009,459; Nov. 21; Sp. p. 4113; Gaz. vol. 172; p. 709.
Printing-press counting attachment. W. J. Ramsaier. No. 992,249; May 16; Sp. p. 3050; Gaz. vol. 166; p. 557.
Printing-press cylinder. W. A. Pringle. No. 989,870; Apr. 18; Sp. p. 3379; Gaz. vol. 165; p. 589.
Printing-press cylinder. W. S. Warnock. No. 999,279; Aug. 1; Sp. p. 162; Gaz. vol. 169; p. 31.
Printing-press cylinder-tripping mechanism. R. Miehle. No. 985,918; Mar. 7; Sp. p. 342; Gaz. vol. 164; p. 55.
Printing-press delivery mechanism. W. S. Huson. No. 986,172; Mar. 7; Sp. p. 863; Gaz. vol. 164; p. 140.
Printing-press delivery mechanism. J. Bengough. No. 992,330; May 16; Sp. p. 3227; Gaz. vol. 166; p. 586.
Printing-press delivery mechanism. R. A. Freeman. No. 993,162; May 23; Sp. p. 4997; Gaz. vol. 166; p. 904.
Printing-press delivery mechanism. H. B. Cooley. No. 1,008,014; Nov. 7; Sp. p. 797; Gaz. vol. 172; p. 127.
Printing-press delivery mechanism. W. A. Pringle. No. 1,010,520; Dec. 5; Sp. p. 272; Gaz. vol. 173; p. 43.
Printing-press delivery mechanism. R. A. Freeman. No. 1,011,046; Dec. 5; Sp. p. 1405; Gaz. vol. 173; p. 224.
Printing press, Embossed-. F. W. Wood. No. 981,346; Jan. 10; Sp. p. 2688; Gaz. vol. 162; p. 436.
Printing-press front guide. L. Bakke. No. 1,011,009; Dec. 5; Sp. p. 1332; Gaz. vol. 173; p. 212.
Printing-press, Hand. J. W. Read. No. 984,968; Feb. 21; Sp. p. 3675; Gaz. vol. 163; p. 649.
Printing-press impression adjustment. C. B. Swink. No. 998,863; July 25; Sp. p. 4956; Gaz. vol. 168; p. 891.
Printing-press ink-ribbon mechanism. W. E. Kier. No. 983,556; Feb. 7; Sp. p. 664; Gaz. vol. 163; p. 102.
Printing-press inking apparatus. M. Vierengel. No. 1,004,606; Oct. 3; Sp. p. 125; Gaz. vol. 171; p. 22.
Printing-press inking device. W. N. Bates. No. 1,001,576; Aug. 22; Sp. p. 5058; Gaz. vol. 169; p. 911.
Printing-press inking device. E. Nichoson. No. 1,010,516; Dec. 5; Sp. p. 266; Gaz. vol. 173; p. 42.
Printing press, Multicolor-. W. J. Wickers. No. 985,873; Mar. 7; Sp. p. 235; Gaz. vol. 164; p. 39.
Printing press, Multicolor-. A. M. Clark. No. 995,524; June 20; Sp. p. 3113; Gaz. vol. 167; p. 554.
Printing-press offset mechanism. G. J. Such. No. 1,006,313; Oct. 17; Sp. p. 3854; Gaz. vol. 171; p. 674.
Printing-press paper-guide. W. H. Stratton. No. 990,311; Apr. 25; Sp. p. 4359; Gaz. vol. 165; p. 772.
Printing-press plate-clamping mechanism. W. Evensen. No. 988,559; Apr. 4; Sp. p. 569; Gaz. vol. 165; p. 92.
Printing-press plate-holder. K. M. and F. Schlueter, Jr. No. 989,811; Apr. 18; Sp. p. 3265; Gaz. vol. 165; p. 570.
Printing-press plate-holder. K. M. and F. Schlueter, Jr. No. 992,266; May 16; Sp. p. 3089; Gaz. vol. 166; p. 562.
Printing-press plate-holder. K. M. and F. Schlueter, Jr. No. 992,267; May 16; Sp. p. 3091; Gaz. vol. 166; p. 563.
Printing-press, Platen. F. Stedinger. No. 982,892; Jan. 31; Sp. p. 5965; Gaz. vol. 162; p. 1046.
Printing-press, Proof. R. O. Vandercook. No. 992,461; May 16; Sp. p. 3501; Gaz. vol. 166; p. 630.
Printing-press ribbon-operating device. H. C. Hansen. No. 1,007,691; Nov. 7; Sp. p. 84; Gaz. vol. 172; p. 13.
Printing-press, Rotary. L. A. Wheat. No. 990,178; Apr. 18; Sp. p. 4025; Gaz. vol. 165; p. 693.
Printing-press, Rotary. W. L. Hamilton. No. 1,003,737; Sept. 19; Sp. p. 3387; Gaz. vol. 170; p. 604.
Printing-press, Rotary. G. E. Pancoast. No. 1,006,782; Oct. 24; Sp. p. 4884; Gaz. vol. 171; p. 868.
Printing press, Rotary sheet-. M. A. Droitcour. No. 997,051; July 4; Sp. p. 976; Gaz. vol. 168; p. 156.
Printing press, Rotary web-. C. N. Smith. No. 1,011,508; Dec. 12; Sp. p. 2489; Gaz. vol. 173; p. 424.
Printing-press sheet-delivery mechanism. C. Henderson. No. 994,675; June 6; Sp. p. 1213; Gaz. vol. 167; p. 198.
Printing-press sheet-delivery mechanism. C. Henderson. (Reissue.) No. 13,336; Dec. 5; Sp. p. 1654; Gaz. vol. 173; p. 265.

Alphabetical list of inventions—Continued.

Printing press, Three-color job-. J. E. De Montigny. No. 1,002,299; Sept. 5; Sp. p. 258; Gaz. vol. 170; p. 35.
Printing-press web-feed mechanism. C. Rush. No. 1,009,791; Nov. 28; Sp. p. 4781; Gaz. vol. 172; p. 866.
Printing-press web-feeding mechanism. W. A. Pringle. No. 989,871; Apr. 18; Sp. p. 3382; Gaz. vol. 165; p. 590.
Printing-press, Web-perfecting. P. F. Cox. No. 988,548; Apr. 4; Sp. p. 546; Gaz. vol. 165; p. 88.
Printing-press wind-shield. P. F. Cox. No. 988,549; Apr. 4; Sp. p. 549; Gaz. vol. 165; p. 88.
Printing-presses, Building up forms in. F. J. Slader. No. 984,859; Feb. 21; Sp. p. 3471; Gaz. vol. 163; p. 613.
Printing-presses, Chuck for paper-rolls of. F. M. Kennedy. No. 1,001,861; Aug. 29; Sp. p. 5687; Gaz. vol. 169; p. 1041.
Printing-presses, Cutting and folding device for. W. F. C. Foster. No. 999,980; Aug. 8; Sp. p. 1577; Gaz. vol. 169; p. 297.
Printing-presses, Feed attachment for cylinder. C. Korzenborn, Jr. No. 998,350; July 18; Sp. p. 3829; Gaz. vol. 168; p. 680.
Printing-presses, Interchangeable plate-holder for. K. M. and F. Schlueter. No. 988,389; Apr. 4; Sp. p. 216; Gaz. vol. 165; p. 35.
Printing-presses, Preventing offset in. C. Henderson. No. 996,642; July 4; Sp. p. 102; Gaz. vol. 168; p. 18.
Printing-presses, &c., Sheet-delivery mechanism for. R. Miehle. No. 991,002; May 2; Sp. p. 368; Gaz. vol. 166; p. 63.
Printing-presses, Stereotype or electrotype cylinder for. L. A. Wheat. No. 1,008,507; Nov. 14; Sp. p. 1994; Gaz. vol. 172; p. 341.
Printing-presses, Type-chase and form-cylinder for. H. B. Cooley. No. 1,008,016; Nov. 7; Sp. p. 801; Gaz. vol. 172; p. 127.
Printing, Protective color-. W. W. Kennedy. No. 1,010,635; Dec. 5; Sp. p. 529; Gaz. vol. 173; p. 83.
Printing roll-paper, Apparatus for. J. Barlow. No. 994,099; May 30; Sp. p. 6985; Gaz. vol. 166; p. 1253.
Printing-rolls, Apparatus for coating. E. Mertens. No. 983,743; Feb. 7; Sp. p. 1036; Gaz. vol. 163; p. 166.
Printing-rolls deprived of their etching or engraving their original diameter, Giving. P. E. Preschlin. No. 1,005,305; Oct. 10; Sp. p. 1610; Gaz. vol. 171; p. 288.
Printing-rule and system of applying same to printing-forms. A. G. Stevenson. No. 993,328; May 23; Sp. p. 5338; Gaz. vol. 166; p. 957.
Printing-slugs, Machine for producing. J. McNamara. No. 1,008,175; Nov. 7; Sp. p. 1117; Gaz. vol. 172; p. 184.
Prism-glasses. R. F. Picard. No. 1,009,259; Nov. 21; Sp. p. 3649; Gaz. vol. 172; p. 637.
Program-holder. J. N. Martin. No. 1,004,802; Oct. 3; Sp. p. 549; Gaz. vol. 171; p. 90.
Projectile. A. Wratzke. No. 982,338; Jan. 24; Sp. p. 4783; Gaz. vol. 162; p. 828.
Projectile. G. E. Wells. No. 982,402; Jan. 24; Sp. p. 4918; Gaz. vol. 162; p. 852.
Projectile. E. Gathmann. No. 992,650; May 16; Sp. p. 3904; Gaz. vol. 166; p. 696.
Projectile. H. H. Hendrix. (Reissue.) No. 13,258; June 20; Sp. p. 4232; Gaz. vol. 167; p. 735.
Projectile. M. W. Gilmartin. No. 996,403; June 27; Sp. p. 5097; Gaz. vol. 167; p. 893.
Projectile. J. H. Brown. No. 997,538; July 11; Sp. p. 1947; Gaz. vol. 168; p. 349.
Projectile. J. H. Brown. No. 997,540; July 11; Sp. p. 1949; Gaz. vol. 168; p. 349.
Projectile. J. T. S. Schouboe. No. 998,307; July 18; Sp. p. 3742; Gaz. vol. 168; p. 665.
Projectile. L. J. McNair. No. 998,711; July 25; Sp. p. 4595; Gaz. vol. 168; p. 837.
Projectile. L. J. McNair. No. 998,712; July 25; Sp. p. 4597; Gaz. vol. 168; p. 837.
Projectile. J. B. Semple. No. 999,470; Aug. 1; Sp. p. 538; Gaz. vol. 169; p. 95.
Projectile. K. Wieser. No. 1,003,079; Sept. 12; Sp. p. 1966; Gaz. vol. 170; p. 341.
Projectile. C. P. Watson. No. 1,004,510; Sept. 26; Sp. p. 5090; Gaz. vol. 170; p. 896.
Projectile. L. J. McNair. No. 1,007,223; Oct. 31; Sp. p. 5896; Gaz. vol. 171; p. 1076.
Projectile. R. W. Scott. No. 1,012,455; Dec. 19; Sp. p. 4574; Gaz. vol. 173; p. 784.
Projectile, Explosive. F. I. Du Pont. No. 995,635; June 20; Sp. p. 3370; Gaz. vol. 167; p. 594.
Projectile for attacking face-hardened armor. C. Davis. No. 997,758; July 11; Sp. p. 2453; Gaz. vol. 168; p. 428.
Projectile for hand-firearms. W. Thilo. No. 995,928; June 20; Sp. p. 4006; Gaz. vol. 167; p. 696.
Projectile, Incendiary. E. Schneider. No. 1,005,578; Oct. 10; Sp. p. 2233; Gaz. vol. 171; p. 385.
Projectile, Search-light. F. Ziegenfuss. No. 1,003,082; Sept. 12; Sp. p. 1970; Gaz. vol. 170; p. 342.
Projectile, Search-light. A. Wünsche. No. 1,011,002; Dec. 5; Sp. p. 1323; Gaz. vol. 173; p. 210.
Projectiles, Cap for armor-piercing. A. G. M. Jack. No. 987,073; Mar. 14; Sp. p. 2746; Gaz. vol. 164; p. 475.
Projectiles, Charge for. E. Jandrier and G. S. Merrill. No. 1,010,430; Dec. 5; Sp. p. 56; Gaz. vol. 173; p. 12.
Projectiles from aerial crafts, Means for dropping. R. E. Scott. No. 991,378; May 2; Sp. p. 1182; Gaz. vol. 166; p. 197.
Projectiles, Tracer for. J. B. Semple. No. 1,011,863; Dec. 12; Sp. p. 3280; Gaz. vol. 173; p. 545.
Projectiles with a high-explosive bursting charge, Charging of. H. Maxim. No. 988,886; Apr. 4; Sp. p. 1255; Gaz. vol. 165; p. 201.
Projectiles with high explosives, Apparatus for charging or loading. H. Maxim. No. 988,798; Apr. 4; Sp. p. 1089; Gaz. vol. 165; p. 174.
Projectiles with high explosives, Charging. H. Maxim. No. 988,885; Apr. 4; Sp. p. 1253; Gaz. vol. 165; p. 200.
Projecting apparatus. E. Schneider. No. 985,068; Feb. 21; Sp. p. 3872; Gaz. vol. 163; p. 684.
Projecting apparatus. H. C. and C. W. White. No. 991,575; May 9; Sp. p. 1609; Gaz. vol. 166; p. 296.
Projecting apparatus. H. C. White. No. 993,425; May 30; Sp. p. 5569; Gaz. vol. 166; p. 1022.
Projecting apparatus. S. J. Jacobson. No. 996,647; July 4; Sp. p. 109; Gaz. vol. 168; p. 19.
Projection apparatus. E. W. Goodrich. No. 1,008,134; Nov. 7; Sp. p. 1042; Gaz. vol. 172; p. 169.
Projection apparatus. N. W. Dexter and W. B. Mather. No. 1,009,897; Nov. 28; Sp. p. 4987; Gaz. vol. 172; p. 901.
Projection apparatus, Relaying. G. A. H. Kellner. No. 984,929; Feb. 21; Sp. p. 3602; Gaz. vol. 163; p. 635.
Projection-screen. O. Buechner. No. 997,899; July 11; Sp. p. 2786; Gaz. vol. 168; p. 476.
Projector-controller. J. L. Hall. No. 996,331; June 27; Sp. p. 4927; Gaz. vol. 167; p. 867.
Proof-press. G. L. Drummond. No. 1,008,798; Nov. 14; Sp. p. 2646; Gaz. vol. 172; p. 443.
Prop. J. Mounier. No. 985,921; Mar. 7; Sp. p. 348; Gaz. vol. 164; p. 56.
Propeller. J. H. Smith. No. 985,378; Feb. 28; Sp. p. 4586; Gaz. vol. 163; p. 822.
Propeller. F. C. Gordon. No. 989,500; Apr. 11; Sp. p. 2545; Gaz. vol. 165; p. 431.
Propeller. M. D. Thompson. No. 993,126; May 23; Sp. p. 4935; Gaz. vol. 166; p. 893.
Propeller. J. Hayes. No. 993,679; May 30; Sp. p. 6142; Gaz. vol. 166; p. 1111.
Propeller. T. Hettler. No. 995,786; June 20; Sp. p. 3709; Gaz. vol. 167; p. 646.
Propeller. C. A. Swenson. No. 997,587; July 11; Sp. p. 2052; Gaz. vol. 168; p. 366.
Propeller. S. Heath. No. 998,897; July 25; Sp. p. 5032; Gaz. vol. 168; p. 903.
Propeller. J. R. Fiala. No. 999,768; Aug. 8; Sp. p. 1137; Gaz. vol. 169; p. 225.
Propeller. W. J. Mason. No. 1,000,030; Aug. 8; Sp. p. 1679; Gaz. vol. 169; p. 315.
Propeller. H. W. Jacobs. No. 1,000,602; Aug. 15; Sp. p. 2992; Gaz. vol. 169; p. 547.
Propeller. O. A. Danielson and L. R. Jones. No. 1,000,999; Aug. 22; Sp. p. 3886; Gaz. vol. 169; p. 718.
Propeller. H. and S. H. Hawkins. No. 1,001,951; Aug. 29; Sp. p. 5906; Gaz. vol. 169; p. 1071.
Propeller. G. and U. Antoni. No. 1,002,796; Sept. 5; Sp. p. 1357; Gaz. vol. 170; p. 206.
Propeller. J. H. C. Alexander. No. 1,003,958; Sept. 19; Sp. p. 3878; Gaz. vol. 170; p. 680.
Propeller. D. Crockett. No. 1,005,812; Oct. 17; Sp. p. 2715; Gaz. vol. 171; p. 496.
Propeller. S. Heath. No. 1,006,209; Oct. 17; Sp. p. 3623; Gaz. vol. 171; p. 638.
Propeller. T. Murray. No. 1,008,857; Nov. 14; Sp. p. 2749; Gaz. vol. 172; p. 463.
Propeller. C. J. H. Flindt. No. 1,010,487; Dec. 5; Sp. p. 190; Gaz. vol. 173; p. 32.
Propeller. W. Reid. No. 1,012,441; Dec. 19; Sp. p. 4550; Gaz. vol. 173; p. 779.
Propeller, Aerial. T. Fahey. No. 980,935; Jan. 10; Sp. p. 1676; Gaz. vol. 162; p. 290.
Propeller, Boat-. S. B. McHenry. No. 1,008,553; Nov. 14; Sp. p. 2089; Gaz. vol. 172; p. 357.
Propeller, Chain. E. N. Kerr. No. 988,112; Mar. 28; Sp. p. 5032; Gaz. vol. 164; p. 892.
Propeller for boats, Endless-chain. E. A. Williams. No. 1,010,996; Dec. 5; Sp. p. 1312; Gaz. vol. 173; p. 208.
Propeller gear, Balanced-. A. B. Holson. No. 1,001,956; Aug. 29; Sp. p. 5921; Gaz. vol. 169; p. 1073.
Propeller-guard. D. G. Watkins. No. 983,587; Feb. 7; Sp. p. 725; Gaz. vol. 163; p. 113.
Propeller-guard. G. W. Benson. No. 1,009,635; Nov. 21; Sp. p. 4444; Gaz. vol. 172; p. 766.
Propeller-operating means. I. B. Rolka. No. 984,393; Feb. 14; Sp. p. 2461; Gaz. vol. 163; p. 416.
Propeller-operating means. I. B. Rolka. No. 1,001,984; Aug. 29; Sp. p. 5972; Gaz. vol. 169; p. 1081.
Propeller-puller. C. Andrade, Jr. No. 985,491; Feb. 28; Sp. p. 4864; Gaz. vol. 163; p. 863.
Propeller, Screw-. O. Häbig. No. 1,003,401; Sept. 12; Sp. p. 2638; Gaz. vol. 170; p. 454.
Propeller, Screw-. W. H. Clark. No. 1,007,183; Oct. 31; Sp. p. 5819; Gaz. vol. 171; p. 1062.
Propeller, Screw-. E. W. Young. No. 1,008,402; Nov. 14; Sp. p. 1734; Gaz. vol. 172; p. 304.

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Propeller, Screw-. C. G. Wieland. No. 1,012,308; Dec. 19; Sp. p. 4292; Gaz. vol. 173; p. 736.
Propeller, Sectional. C. E. Loetzer. No. 1,010,929; Dec. 5; Sp. p. 1178; Gaz. vol. 173; p. 185.
Propeller, Ship's. F. Clennell and F. W. Thorp. No. 1,008,953; Nov. 14; Sp. p. 2954; Gaz. vol. 172; p. 493.
Propeller, Vessel-. K. O. Müller and P. Fuegmann. No. 1,009,333; Nov. 21; Sp. p. 3815; Gaz. vol. 172; p. 664.
Propeller-wheel. J. S. Benson. No. 981,835; Jan. 17; Sp. p. 3701; Gaz. vol. 162; p. 626.
Propeller-wheel. J. P. Holmes. No. 997,819; July 11; Sp. p. 2615; Gaz. vol. 168; p. 449.
Propeller, Wheel-. W. H. Clark. No. 1,009,473; Nov. 21; Sp. p. 4135; Gaz. vol. 172; p. 713.
Propeller, Wooden. P. Borrmann. No. 1,012,507; Dec. 19; Sp. p. 4674; Gaz. vol. 173; p. 802.
Propelling apparatus, Boat-. G. R. Napier. No. 1,006,118; Oct. 17; Sp. p. 3398; Gaz. vol. 171; p. 604.
Propelling apparatus, Bow-facing manually-operated boat-. A. G. Chaudron. No. 987,794; Mar. 28; Sp. p. 4301; Gaz. vol. 164; p. 783.
Propelling device. C. Krohn. No. 992,676; May 16; Sp. p. 3952; Gaz. vol. 166; p. 705.
Propelling device. J. J. Monroe. No. 1,011,474; Dec. 12; Sp. p. 2411; Gaz. vol. 173; p. 412.
Propelling device, Boat-. W. Arnold. No. 998,593; July 25; Sp. p. 4335; Gaz. vol. 168; p. 795.
Propelling device, Intermittent. W. H. Voss. No. 987,777; Mar. 28; Sp. p. 4266; Gaz. vol. 164; p. 778.
Propelling means. L. Rosen. No. 993,275; May 23; Sp. p. 5230; Gaz. vol. 166; p. 938.
Propelling means, Boat-. C. A. McCallister. No. 998,193; July 18; Sp. p. 3446; Gaz. vol. 168; p. 621.
Propelling mechanism. C. E. Edwards. No. 989,769; Apr. 18; Sp. p. 3163; Gaz. vol. 165; p. 556.
Propelling mechanism, Boat-. G. Scott. No. 998,555; July 18; Sp. p. 4229; Gaz. vol. 168; p. 749.
Propelling vessels. F. W. Schroeder. No. 986,766; Mar. 14; Sp. p. 2144; Gaz. vol. 164; p. 373.
Propelling vessels, Apparatus for. A. Ahlbrecht. No. 1,010,716; Dec. 5; Sp. p. 708; Gaz. vol. 173; p. 112.
Propelling-wheel. J. Plewes. No. 995,562; June 20; Sp. p. 3190; Gaz. vol. 167; p. 567.
Propulsion apparatus for ships, boats, &c. S. Z. de Ferranti. No. 996,324; June 27; Sp. p. 4902; Gaz. vol. 167; p. 865.
Propulsion, Drum for marine. L. Dion. No. 1,004,633; Oct. 3; Sp. p. 181; Gaz. vol. 171; p. 32.
Propulsion, Jet. P. Skouses. No. 982,540; Jan. 24; Sp. p. 5216; Gaz. vol. 162; p. 900.
Propulsion, Marine. R. D'Antonio. No. 988,697; Apr. 4; Sp. p. 865; Gaz. vol. 165; p. 139.
Propulsion, Marine. C. A. Parsons and S. S. Cook. No. 1,006,674; Oct. 24; Sp. p. 4665; Gaz. vol. 171; p. 831.
Propulsion means. V. C. de Ybarrondo. No. 1,001,332; Aug. 22; Sp. p. 4594; Gaz. vol. 169; p. 831.
Propulsion mechanism, Marine. O. Evinrude. No. 1,001,260; Aug. 22; Sp. p. 4426; Gaz. vol. 169; p. 805.
Propulsion of ships. H. A. Mavor. No. 983,917; Feb. 14; Sp. p. 1450; Gaz. vol. 163; p. 256.
Propulsion of ships and boats. C. Grützner. No. 1,007,281; Oct. 31; Sp. p. 6013; Gaz. vol. 171; p. 1097.
Propulsion of submarines, Utilizing steam-engines for the. G. F. Jaubert. No. 994,407; June 6; Sp. p. 639; Gaz. vol. 167; p. 109.
Propulsion of vessels in water. J. N. Bailey. No. 993,638; May 30; Sp. p. 6028; Gaz. vol. 166; p. 1096.
Propulsion of vessels, Means for the. W. H. Witte. No. 993,933; May 30; Sp. p. 6638; Gaz. vol. 166; p. 1196.
Propulsion, Prime mover for marine. C. G. Curtis and R. L. Lovell. No. 1,008,532; Nov. 14; Sp. p. 2048; Gaz. vol. 172; p. 349.
Prospecting device. W. and F. Centala. No. 982,246; Jan. 24; Sp. p. 4578; Gaz. vol. 162; p. 796.
Prospecting-drill. H. R. Ameling. No. 997,358; July 11; Sp. p. 1605; Gaz. vol. 168; p. 291.
Protecting box or casing. H. W. Clark. No. 989,695; Apr. 18; Sp. p. 3012; Gaz. vol. 165; p. 530.
Protecting box or casing. H. W. Clark. No. 1,002,501; Sept. 5; Sp. p. 718; Gaz. vol. 170; p. 105.
Protecting device. M. G. Kennedy. No. 999,231; Aug. 1; Sp. p. 74; Gaz. vol. 169; p. 15.
Protective device. J. L. R. Hayden. No. 981,760; Jan. 17; Sp. p. 3531; Gaz. vol. 162; p. 598.
Protective device. E. E. F. Creighton. No. 991,483; May 9; Sp. p. 1398; Gaz. vol. 166; p. 264.
Protective device. V. Karapetoff. No. 998,343; July 18; Sp. p. 3816; Gaz. vol. 168; p. 678.
Protective device. A. B. Marvin, Jr. No. 1,002,069; Aug. 29; Sp. p. 6132; Gaz. vol. 169; p. 1108.
Protective device. E. E. F. Creighton. No. 1,004,530; Sept. 26; Sp. p. 5126; Gaz. vol. 170; p. 902.
Protective device. E. O. Schweitzer and N. J. Conrad. No. 1,008,496; Nov. 14; Sp. p. 1968; Gaz. vol. 172; p. 337.
Protector. E. P. and C. C. Maben. No. 992,222; May 16; Sp. p. 2941; Gaz. vol. 166; p. 547.
Protector-block. G. Anderson. No. 1,000,767; Aug. 15; Sp. p. 3343; Gaz. vol. 169; p. 603.
Protector-inserting machine. G. A. Ambler. No. 995,050; June 13; Sp. p. 2105; Gaz. vol. 167; p. 366.
Protector unit and means for mounting same, Individual-. F. B. Cook. No. 990,229; Apr. 25; Sp. p. 4153; Gaz. vol. 165; p. 743.
Proteid composition, Obtaining soluble and coagulatable. H. L. J. Chavassieu. No. 984,539; Feb. 21; Sp. p. 2805; Gaz. vol. 163; p. 501.
Protractor. A. Brubaker. No. 989,327; Apr. 11; Sp. p. 2201; Gaz. vol. 165; p. 374.
Protractor. J. Goodfellow. No. 1,008,814; Nov. 14; Sp. p. 2672; Gaz. vol. 172; p. 449.
Protractor and rule, Combined. W. S. Adams. No. 999,725; Aug. 8; Sp. p. 1052; Gaz. vol. 169; p. 211.
Protractor and T-square. F. A. Del Castillo. No. 994,570; June 6; Sp. p. 977; Gaz. vol. 167; p. 162.
Pruning-hook. E. W. Hill and C. H. Young. No. 992,561; May 16; Sp. p. 3729; Gaz. vol. 166; p. 667.
Pruning implement, Lineman's. C. M. Taylor. No. 988,153; Mar. 28; Sp. p. 5106; Gaz. vol. 164; p. 905.
Pull-socket. H. Hubbell. No. 994,518; June 6; Sp. p. 854; Gaz. vol. 167; p. 144.
Pull-socket. H. Hubbell. No. 994,588; June 6; Sp. p. 1012; Gaz. vol. 167; p. 168.
Pull-strap. F. B. Kennedy. No. 994,751; June 13; Sp. p. 1435; Gaz. vol. 167; p. 265.
Pull-switch. G. W. Goodridge. No. 984,902; Feb. 21; Sp. p. 3549; Gaz. vol. 163; p. 627.
Puller: *See* Bean-puller; Beet-puller; Cork-puller; Ice-cream-can puller; Nail-puller; Pile-puller; Propeller-puller; Rod-puller; Spike-puller; Stalk-puller; Stump-puller; Tack-puller; Weed-puller; Wheel-puller; Wire-puller.
Pulling-jack. G. M. Graham. No. 1,007,559; Oct. 31; Sp. p. 6617; Gaz. vol. 171; p. 1193.
Pulling-over machine. A. Perri. No. 991,168; May 2; Sp. p. 727; Gaz. vol. 166; p. 123.
Pulling-over machine. A. Bates. No. 1,006,456; Oct. 24; Sp. p. 4172; Gaz. vol. 171; p. 753.
Pulling-over machine. A. Bates. No. 1,006,821; Oct. 24; Sp. p. 4985; Gaz. vol. 171; p. 883.
Pulling-over machine. C. Ashton. No. 1,007,766; Nov. 7; Sp. p. 253; Gaz. vol. 172; p. 41.
Pulling-over machine. R. F. McFeely. No. 1,008,350; Nov. 14; Sp. p. 1568; Gaz. vol. 172; p. 285.
Pulley. H. J. Gilbert. No. 986,629; Mar. 14; Sp. p. 1845; Gaz. vol. 164; p. 328.
Pulley. C. L. Bergenthal and L. Keller. No. 986,961; Mar. 14; Sp. p. 2542; Gaz. vol. 164; p. 440.
Pulley. J. W. Hamilton. No. 990,648; Apr. 25; Sp. p. 5119; Gaz. vol. 165; p. 890.
Pulley. H. J. Gilbert. No. 991,146; May 2; Sp. p. 675; Gaz. vol. 166; p. 115.
Pulley. W. L. Pipkin. No. 992,901; May 23; Sp. p. 4444; Gaz. vol. 166; p. 815.
Pulley. H. J. Gilbert. No. 999,446; Aug. 1; Sp. p. 501; Gaz. vol. 169; p. 88.
Pulley. L. W. Noyes. No. 1,006,262; Oct. 17; Sp. p. 3737; Gaz. vol. 171; p. 657.
Pulley. D. G. Langlands. No. 1,007,118; Oct. 31; Sp. p. 5653; Gaz. vol. 171; p. 1038.
Pulley. M. A. Kendall. No. 1,008,475; Nov. 14; Sp. p. 1932; Gaz. vol. 172; p. 330.
Pulley. D. G. Langlands. No. 1,009,535; Nov. 21; Sp. p. 4266; Gaz. vol. 172; p. 735.
Pulley. H. J. Gilbert. No. 1,010,613; Dec. 5; Sp. p. 476; Gaz. vol. 173; p. 74.
Pulley. H. J. Gilbert. No. 1,010,614; Dec. 5; Sp. p. 479; Gaz. vol. 173; p. 75.
Pulley. C. H. Mattice. No. 1,011,468; Dec. 12; Sp. p. 2399; Gaz. vol. 173; p. 410.
Pulley and bearing therefor. M. H. Avery. No. 1,003,864; Sept. 19; Sp. p. 3638; Gaz. vol. 170; p. 646.
Pulley and clutch, Combined loose. S. L. McAdams. No. 1,011,355; Dec. 12; Sp. p. 2168; Gaz. vol. 173; p. 369.
Pulley and shaft protector. P. Blomstrom. No. 984,185; Feb. 14; Sp. p. 2007; Gaz. vol. 163; p. 345.
Pulley, Belt-. M. T. Bentley. No. 980,744; Jan. 3; Sp. p. 1210; Gaz. vol. 162; p. 194.
Pulley, Belt-conveyer. E. H. Messiter. No. 987,157; Mar. 21; Sp. p. 2934; Gaz. vol. 164; p. 536.
Pulley, Change-speed. A. Aichele. No. 998,733; July 25; Sp. p. 4665; Gaz. vol. 168; p. 845.
Pulley, Clutch-. J. McStay and E. F. Stevens. No. 989,274; Apr. 11; Sp. p. 2076; Gaz. vol. 165; p. 354.
Pulley, Clutch-. A. N. Stimson. No. 1,004,928; Oct. 3; Sp. p. 827; Gaz. vol. 171; p. 134.
Pulley construction, Sash-. H. G. Voight. No. 985,715; Feb. 28; Sp. p. 5363; Gaz. vol. 163; p. 939.
Pulley-coupling. J. Newmann. No. 1,003,493; Sept. 19; Sp. p. 2838; Gaz. vol. 170; p. 519.
Pulley, Drive-. L. Torgerson. No. 981,500; Jan. 10; Sp. p. 3001; Gaz. vol. 162; p. 489.
Pulley, Expansible. C. H. Caldwell. No. 1,012,983; Dec. 26; Sp. p. 5769; Gaz. vol. 173; p. 1011.
Pulley, Friction-. H. R. Herr. No. 986,567; Mar. 14; Sp. p. 1724; Gaz. vol. 164; p. 305.
Pulley, funnel, and stripping-jack, Combination. T. F. Hutchings. No. 1,001,644; Aug. 29; Sp. p. 5207; Gaz. vol. 169; p. 965.
Pulley, Loose. E. J. Cunningham. No. 1,007,071; Oct. 31; Sp. p. 5545; Gaz. vol. 171; p. 1020.

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Pulley-mortising machine. R. S. Brown. No. 1,007,180; Oct. 31; Sp. p. 5804; Gaz. vol. 171; p. 1061.
Pulley, Overhead sash-. H. G. Voight. No. 1,010,467; Dec. 5; Sp. p. 141; Gaz. vol. 173; p. 25.
Pulley, Paper. J. W. Taylor. No. 1,002,607; Sept. 5; Sp. p. 957; Gaz. vol. 170; p. 142.
Pulley running at a predetermined speed, Means for testing the balance of a. J. T. Lincoln and J. Cornell. No. 1,009,323; Nov. 21; Sp. p. 3797; Gaz. vol. 172; p. 661.
Pulley, Safety-. P. J. A. Schnoor. No. 996,803; July 4; Sp. p. 403; Gaz. vol. 168; p. 69.
Pulley, Self-oiling. A. W. Wigglesworth. No. 980,579; Jan. 3; Sp. p. 876; Gaz. vol. 162; p. 141.
Pulley, Self-oiling. H. Rice. No. 1,003,512; Sept. 19; Sp. p. 2878; Gaz. vol. 170; p. 526.
Pulley, Shock-absorbing. T. H. Miller. No. 981,869; Jan. 17; Sp. p. 3771; Gaz. vol. 162; p. 637.
Pulley, Split. C. S. Davis. No. 1,006,467; Oct. 24; Sp. p. 4200; Gaz. vol. 171; p. 757.
Pulley, Split. P. Pfeifer. No. 1,009,786; Nov. 28; Sp. p. 4773; Gaz. vol. 172; p. 864.
Pulley, Variable-speed. W. B. Frisbie. No. 980,239; Jan. 3; Sp. p. 116; Gaz. vol. 162; p. 23.
Pulley, Window-shade catch-. A. N. Fries. No. 990,431; Apr. 25; Sp. p. 4645; Gaz. vol. 165; p. 817.
Pulleys, Holder for bearing material in. R. H. Bowen. (Reissue.) No. 13,265; July 4; Sp. p. 1386; Gaz. vol. 168; p. 227.
Pulp-agitating apparatus. W. C. Paterson. No. 1,000,689; Aug. 15; Sp. p. 3187; Gaz. vol. 169; p. 576.
Pulp articles, Machine for making. F. E. Keyes. No. 986,996; Mar. 14; Sp. p. 2604; Gaz. vol. 164; p. 450.
Pulp-beating engine. F. J. Marshall. No. 984,830; Feb. 21; Sp. p. 3421; Gaz. vol. 163; p. 604.
Pulp-board-making machine. H. A. Moody. No. 1,002,425; Sept. 5; Sp. p. 562; Gaz. vol. 170; p. 80.
Pulp-drying machine. W. M. Barber. No. 990,950; May 2; Sp. p. 262; Gaz. vol. 166; p. 46.
Pulp into sheets, Machine for converting. H. G. Rogers. No. 1,005,655; Oct. 10; Sp. p. 2399; Gaz. vol. 171; p. 412.
Pulp-machine. M. Hanson. No. 986,976; Mar. 14; Sp. p. 2564; Gaz. vol. 164; p. 444.
Pulp, Machine for cutting chips for wood-. N. Lombard. No. 989,271; Apr. 11; Sp. p. 2070; Gaz. vol. 165; p. 353.
Pulp, Machine for felting. F. E. Keyes. No. 986,997; Mar. 14; Sp. p. 2606; Gaz. vol. 164; p. 450.
Pulp, Manufacturing fiber. C. L. Weiberg. No. 981,042; Jan. 10; Sp. p. 1988; Gaz. vol. 162; p. 328.
Pulp-press. F. W. Barhoff. No. 982,925; Jan. 31; Sp. p. 6035; Gaz. vol. 162; p. 1056.
Pulp, Production of mechanical wood-. G. C. Howard. No. 997,064; July 4; Sp. p. 999; Gaz. vol. 168; p. 160.
Pulp-reducing apparatus. C. W. Shartle. No. 989,879; Apr. 18; Sp. p. 3399; Gaz. vol. 165; p. 593.
Pulp-reducing apparatus. C. W. Shartle. No. 1,011,255; Dec. 12; Sp. p. 1932; Gaz. vol. 173; p. 333.
Pulp-refining engine. E. Jonassen and F. Pytterud. No. 1,002,698; Sept. 5; Sp. p. 1139; Gaz. vol. 170; p. 172.
Pulp-saver. C. S. Bird. No. 1,012,974; Dec. 26; Sp. p. 5743; Gaz. vol. 173; p. 1008.
Pulp-strainer. B. Tharaldsen. No. 983,784; Feb. 7; Sp. p. 1127; Gaz. vol. 163; p. 180.
Pulp-strainer. R. Wagner. No. 987,657; Mar. 21; Sp. p. 3977; Gaz. vol. 164; p. 709.
Pulp-straining vat, Metal. L. A. Dietrick. No. 981,249; Jan. 10; Sp. p. 2476; Gaz. vol. 162; p. 402.
Pulsameter. H. E. Heath. No. 1,010,757; Dec. 5; Sp. p. 801; Gaz. vol. 173; p. 126.
Pulverizer. R. Luckenbach. No. 980,978; Jan. 10; Sp. p. 1833; Gaz. vol. 162; p. 306.
Pulverizer. J. E. and H. H. Blake. No. 1,007,913; Nov. 7; Sp. p. 610; Gaz. vol. 172; p. 93.
Pulverizer and leveler, Soil. T. V. Barnard. No. 985,497; Feb. 28; Sp. p. 4872; Gaz. vol. 163; p. 865.
Pulverizer, Centrifugal-impact. D. O. Marks. No. 982,516; Jan. 24; Sp. p. 5171; Gaz. vol. 162; p. 891.
Pulverizer, Hay-. W. W. Lockwood. No. 1,006,573; Oct. 24; Sp. p. 4465; Gaz. vol. 171; p. 797.
Pulverizer, Land-. O. A. Garwood. No. 980,242; Jan. 3; Sp. p. 122; Gaz. vol. 162; p. 24.
Pulverizer-roller. W. H. Worst and E. E. Kilmer. No. 984,989; Feb. 21; Sp. p. 3709; Gaz. vol. 163; p. 656.
Pulverizer, Soil-. J. B. Hill. No. 1,006,752; Oct. 24; Sp. p. 4819; Gaz. vol. 171; p. 857.
Pulverizing apparatus. G. W. Rouvel. No. 990,167; Apr. 18; Sp. p. 3999; Gaz. vol. 165; p. 690.
Pulverizing apparatus, Centrifugal-impact. D. O. Marks. No. 994,596; June 6; Sp. p. 1025; Gaz. vol. 167; p. 171.
Pulverizing apparatus, Soil-. C. R. Bradley. No. 980,484; Jan. 3; Sp. p. 664; Gaz. vol. 162; p. 108.
Pulverizing-machine. W. F. Trenary. No. 984,048; Feb. 14; Sp. p. 1733; Gaz. vol. 163; p. 298.
Pulverizing-machine. G. L. Pratt. No. 986,756; Mar. 14; Sp. p. 2121; Gaz. vol. 164; p. 370.
Pulverizing-mill. J. R. Moffitt. No. 988,293; Mar. 28; Sp. p. 5379; Gaz. vol. 164; p. 951.
Pulverizing-mill. C. H. Lyon. No. 1,010,062; Nov. 28; Sp. p. 5337; Gaz. vol. 172; p. 957.
Pulverizing-roll. E. E. Porter. No. 981,001; Jan. 10; Sp. p. 1893; Gaz. vol. 162; p. 314.
Pulverizing-roller. C. Jass. No. 996,038; June 20; Sp. p. 4225; Gaz. vol. 167; p. 734.
Pulverulent material, Device for feeding. T. A. Edison. No. 993,294; May 23; Sp. p. 5263; Gaz. vol. 166; p. 944.
Pump. F. L. Antisell and D. W. Blair. No. 981,518; Jan. 10; Sp. p. 3034; Gaz. vol. 162; p. 494.
Pump. E. A. Zevely. No. 982,168; Jan. 17; Sp. p. 4409; Gaz. vol. 162; p. 739.
Pump. P. S. A. Bickel and F. C. Pierce. No. 982,761; Jan. 24; Sp. p. 5670; Gaz. vol. 162; p. 971.
Pump. B. W. Haskell. No. 983,365; Feb. 7; Sp. p. 237; Gaz. vol. 163; p. 40.
Pump. W. R. Thompson and E. E. Case. No. 984,320; Feb. 14; Sp. p. 2319; Gaz. vol. 163; p. 393.
Pump. R. Conrader. No. 984,351; Feb. 14; Sp. p. 2380; Gaz. vol. 163; p. 403.
Pump. N. McCarty. No. 984,688; Feb. 21; Sp. p. 3122; Gaz. vol. 163; p. 553.
Pump. A. B. Strohm. No. 985,300; Feb. 28; Sp. p. 4437; Gaz. vol. 163; p. 798.
Pump. W. W. Wilder. No. 986,035; Mar. 7; Sp. p. 601; Gaz. vol. 164; p. 97.
Pump. E. A. Connor and J. E. Miller. No. 987,217; Mar. 21; Sp. p. 3083; Gaz. vol. 164; p. 559.
Pump. T. Meixner. No. 987,313; Mar. 21; Sp. p. 3296; Gaz. vol. 164; p. 592.
Pump. C. Williams. No. 987,934; Mar. 28; Sp. p. 4644; Gaz. vol. 164; p. 832.
Pump. E. W. Courtney. No. 987,962; Mar. 28; Sp. p. 4724; Gaz. vol. 164; p. 843.
Pump. J. Meklensek. No. 988,125; Mar. 28; Sp. p. 5052; Gaz. vol. 164; p. 896.
Pump. T. E. Wintz. No. 989,096; Apr. 11; Sp. p. 1693; Gaz. vol. 165; p. 295.
Pump. G. H. Fraser. No. 989,775; Apr. 18; Sp. p. 3172; Gaz. vol. 165; p. 558.
Pump. R. E. L. Holmes. No. 990,359; Apr. 25; Sp. p. 4454; Gaz. vol. 165; p. 788.
Pump. W. J. Lapworth. No. 990,886; May 2; Sp. p. 125; Gaz. vol. 166; p. 24.
Pump. J. Astrom. No. 991,469; May 9; Sp. p. 1375; Gaz. vol. 166; p. 260.
Pump. J. S. Fasting. No. 991,708; May 9; Sp. p. 1911; Gaz. vol. 166; p. 344.
Pump. F. O. Kangas. No. 992,358; May 16; Sp. p. 3308; Gaz. vol. 166; p. 595.
Pump. E. S. Murphy. No. 993,707; May 30; Sp. p. 6203; Gaz. vol. 166; p. 1121.
Pump. C. C. Wakefield. No. 993,920; May 30; Sp. p. 6610; Gaz. vol. 166; p. 1191.
Pump. E. R. Eppler. No. 994,305; June 6; Sp. p. 413; Gaz. vol. 167; p. 71.
Pump. W. H. Bennett. No. 994,368; June 6; Sp. p. 557; Gaz. vol. 167; p. 95.
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Pump. R. Stuehck. No. 995,042; June 13; Sp. p. 2081; Gaz. vol. 167; p. 363.
Pump. W. R. Chamberlain. No. 995,843; June 20; Sp. p. 3835; Gaz. vol. 167; p. 667.
Pump. P. J. Bode. No. 996,697; July 4; Sp. p. 201; Gaz. vol. 168; p. 35.
Pump. J. Grindrod. No. 996,984; July 4; Sp. p. 825; Gaz. vol. 168; p. 132.
Pump. C. W. Darrow. No. 998,472; July 18; Sp. p. 4070; Gaz. vol. 168; p. 721.
Pump. B. Osgood. No. 998,547; July 18; Sp. p. 4214; Gaz. vol. 168; p. 747.
Pump. A. B. Shultz. No. 999,405; Aug. 1; Sp. p. 420; Gaz. vol. 169; p. 74.
Pump. J. Milburn. No. 999,832; Aug. 8; Sp. p. 1257; Gaz. vol. 169; p. 246.
Pump. J. L. Latta. No. 1,000,021; Aug. 8; Sp. p. 1662; Gaz. vol. 169; p. 312.
Pump. F. J. Perkins. No. 1,002,306; Sept. 5; Sp. p. 274; Gaz. vol. 170; p. 37.
Pump. W. J. Wilkins. No. 1,002,794; Sept. 5; Sp. p. 1355; Gaz. vol. 170; p. 205.
Pump. F. Linthicum. No. 1,003,000; Sept. 12; Sp. p. 1820; Gaz. vol. 170; p. 315.
Pump. F. M. Chenoweth and A. J. Miller. No. 1,004,368; Sept. 26; Sp. p. 4796; Gaz. vol. 170; p. 847.
Pump. W. C. J. Guilford. No. 1,005,200; Oct. 10; Sp. p. 1347; Gaz. vol. 171; p. 249.
Pump. E. L. Harper, Jr. No. 1,005,204; Oct. 10; Sp. p. 1358; Gaz. vol. 171; p. 250.
Pump. J. Milburn. No. 1,005,270; Oct. 10; Sp. p. 1520; Gaz. vol. 171; p. 275.
Pump. K. F. Gerhard. No. 1,006,843; Oct. 24; Sp. p. 5051; Gaz. vol. 171; p. 890.
Pump. W. L. Hamilton. No. 1,008,816; Nov. 14; Sp. p. 2675; Gaz. vol. 172; p. 449.
Pump. F. Lamplough. No. 1,009,420; Nov. 21; Sp. p. 4035; Gaz. vol. 172; p. 696.
Pump. W. S. Gregg. No. 1,011,340; Dec. 12; Sp. p. 2137; Gaz. vol. 173; p. 365.
Pump. J. Murray. No. 1,012,896; Dec. 26; Sp. p. 5566; Gaz. vol. 173; p. 982.

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Pump. G. A. Rockola. No. 1,012,917; Dec. 26; Sp. p. 5607; Gaz. vol. 173; p. 988.
Pump, Air-. J. Dickens. No. 982,660; Jan. 24; Sp. p. 5446; Gaz. vol. 162; p. 939.
Pump, Air-. J. Desmond. No. 985,013; Feb. 21; Sp. p. 3764; Gaz. vol. 163; p. 664.
Pump, Air-. E. E. Tryon. No. 985,476; Feb. 28; Sp. p. 4829; Gaz. vol. 163; p. 858.
Pump, Air-. J. Schlosser and A. W. Christian. No. 991,902; May 9; Sp. p. 2286; Gaz. vol. 166; p. 408.
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Pump, Air-. J. J. McIntyre. No. 1,001,667; Aug. 29; Sp. p. 5266; Gaz. vol. 169; p. 974.
Pump, Air-. I. Pasley. No. 1,003,122; Sept. 12; Sp. p. 2071; Gaz. vol. 170; p. 357.
Pump, Air-. D. Klein. No. 1,004,278; Sept. 26; Sp. p. 4621; Gaz. vol. 170; p. 817.
Pump, Air-. J. Robertson. No. 1,004,906; Oct. 3; Sp. p. 791; Gaz. vol. 171; p. 126.
Pump, air-fan, turbine, and the like, Centrifugal. R. C. Parsons. No. 998,300; July 18; Sp. p. 3721; Gaz. vol. 168; p. 662.
Pump, Air-lift displacement-. F. S. Miller. No. 987,679; Mar. 21; Sp. p. 4051; Gaz. vol. 164; p. 717.
Pump and aerator, Combined. R. W. Kelly. No. 994,522; June 6; Sp. p. 860; Gaz. vol. 167; p. 145.
Pump and cleaning apparatus, vacuum. L. L. Montgomery. No. 1,002,075; Aug. 29; Sp. p. 6142; Gaz. vol. 169; p. 1110.
Pump and cushion, Combined air. B. W. Smith. No. 998,128; July 18; Sp. p. 3322; Gaz. vol. 168; p. 599.
Pump and shock-absorber, Combination. F. C. Priestly. No. 999,590; Aug. 1; Sp. p. 782; Gaz. vol. 169; p. 136.
Pump and the like, Centrifugal and turbine. W. C. Brown. No. 984,189; Feb. 14; Sp. p. 2014; Gaz. vol. 163; p. 346.
Pump and valve. T. Thompson. No. 1,002,788; Sept. 5; Sp. p. 1342; Gaz. vol. 170; p. 203.
Pump attachment, Tire-inflating-. H. K. Austin. No. 1,005,123; Oct. 10; Sp. p. 1177; Gaz. vol. 171; p. 221.
Pump, Automatic. C. W. McGonigle. No. 982,843; Jan. 31; Sp. p. 5846; Gaz. vol. 162; p. 1029.
Pump, Automatic-balance high-pressure. F. M. Budlong. No. 1,004,982; Oct. 3; Sp. p. 920; Gaz. vol. 171; p. 152.
Pump, Automobile air-. A. M. Clément. No. 1,002,035; Aug. 29; Sp. p. 6072; Gaz. vol. 169; p. 1098.
Pump, Automobile tire-. J. J. Reddy. No. 996,882; July 4; Sp. p. 585; Gaz. vol. 168; p. 96.
Pump, Automobile tire-. F. E. Carlson. No. 1,005,690; Oct. 10; Sp. p. 2468; Gaz. vol. 171; p. 423.
Pump, Automobile tire-. G. A. Collison. No. 1,009,382; Nov. 21; Sp. p. 3944; Gaz. vol. 172; p. 682.
Pump, Automobile tire-. O. W. Linstrum. No. 1,011,353; Dec. 12; Sp. p. 2164; Gaz. vol. 173; p. 368.
Pump-barrel. C. Williams. No. 997,351; July 11; Sp. p. 1593; Gaz. vol. 168; p. 288.
Pump-barrel joint. F. M. Prescott and E. P. Worden. No. 1,002,309; Sept. 5; Sp. p. 283; Gaz. vol. 170; p. 39.
Pump-base. T. M. Sheets. No. 990,397; Apr. 25; Sp. p. 4556; Gaz. vol. 165; p. 804.
Pump, Bilge-. G. E. Badger. No. 1,008,235; Nov. 7; Sp. p. 1272; Gaz. vol. 172; p. 207.
Pump-bracket, Automobile. F. E. Ten Eyck. No. 987,332; Mar. 21; Sp. p. 3328; Gaz. vol. 164; p. 597.
Pump, Breast-. C. A. Tatum. No. 993,124; May 23; Sp. p. 4933; Gaz. vol. 166; p. 893.
Pump, Centrifugal. R. O. Jones. No. 981,199; Jan. 10; Sp. p. 2327; Gaz. vol. 162; p. 383.
Pump, Centrifugal. J. L. Heald. No. 983,137; Jan. 31; Sp. p. 6481; Gaz. vol. 162; p. 1127.
Pump, Centrifugal. W. F. Trenary. No. 984,456; Feb. 14; Sp. p. 2585; Gaz. vol. 163; p. 437.
Pump, Centrifugal. F. H. Jackson. No. 986,827; Mar. 14; Sp. p. 2274; Gaz. vol. 164; p. 394.
Pump, Centrifugal. H. Keller. No. 987,995; Mar. 28; Sp. p. 4790; Gaz. vol. 164; p. 854.
Pump, Centrifugal. J. L. Coker, Jr. No. 998,751; July 25; Sp. p. 4707; Gaz. vol. 168; p. 852.
Pump, Centrifugal. J. A. Goodner. No. 1,004,015; Sept. 26; Sp. p. 4014; Gaz. vol. 170; p. 726.
Pump, Centrifugal. D. V. Burrell. No. 1,007,266; Oct. 31; Sp. p. 5983; Gaz. vol. 171; p. 1092.
Pump, Centrifugal. S. M. D. Miller. No. 1,012,265; Dec. 19; Sp. p. 4200; Gaz. vol. 173; p. 721.
Pump, Centrifugal. J. T. H. Paul. No. 1,012,271; Dec. 19; Sp. p. 4212; Gaz. vol. 173; p. 723.
Pump, Centrifugal or turbine. L. R. Alberger. No. 1,009,819; Nov. 28; Sp. p. 4841; Gaz. vol. 172; p. 875.
Pump, Centrifugal, turbine, and similar. G. Sulzer. No. 990,507; Apr. 25; Sp. p. 4832; Gaz. vol. 165; p. 843.
Pump, Centrifugal turbine and similar. E. S. G. Rees. No. 1,012,438; Dec. 19; Sp. p. 4545; Gaz. vol. 173; p. 778.
Pump, Centrifugal water-lifting. J. E. Saunders. No. 981,007; Jan. 10; Sp. p. 1912; Gaz. vol. 162; p. 316.
Pump, Condenser-. W. H. and W. L. Blake. No. 988,431; Apr. 4; Sp. p. 300; Gaz. vol. 165; p. 50.
Pump connection. C. Paetz. No. 988,807; Apr. 4; Sp. p. 1105; Gaz. vol. 165; p. 176.
Pump, Continuous-spray. H. Finzel. No. 991,291; May 2; Sp. p. 993; Gaz. vol. 166; p. 168.
Pump-controlling switch. C. Gamer. No. 1,004,010; Sept. 26; Sp. p. 4004; Gaz. vol. 170; p. 724.
Pump-coupling. W. E. Grover. No. 982,134; Jan. 17; Sp. p. 4356; Gaz. vol. 162; p. 728.
Pump, Deep-well. J. Hahn. No. 993,520; May 30; Sp. p. 5773; Gaz. vol. 166; p. 1055.
Pump, Deep-well. J. Gleason. No. 994,310; June 6; Sp. p. 421; Gaz. vol. 167; p. 73.
Pump, Deep-well. P. J. Gildea. No. 995,248; June 13; Sp. p. 2483; Gaz. vol. 167; p. 430.
Pump, Deep-well. S. Lippert. No. 996,490; June 27; Sp. p. 5265; Gaz. vol. 167; p. 923.
Pump, Diaphragm-. L. C. McNeal. No. 985,917; Mar. 7; Sp. p. 340; Gaz. vol. 164; p. 55.
Pump, Diaphragm-. L. C. McNeal. No. 1,007,719; Nov. 7; Sp. p. 147; Gaz. vol. 172; p. 24.
Pump, Distributing-. F. W. Knott. No. 995,877; June 20; Sp. p. 3904; Gaz. vol. 167; p. 678.
Pump, Double-action force-. J. Henrikson. No. 991,506; May 9; Sp. p. 1447; Gaz. vol. 166; p. 272.
Pump, Double-plunger. J. C. Whitmer. No. 984,872; Feb. 21; Sp. p. 3495; Gaz. vol. 163; p. 617.
Pump, Fluid-actuated air-. S. C. Laidley. No. 983,729; Feb. 7; Sp. p. 1010; Gaz. vol. 163; p. 161.
Pump for carpet-cleaners. T. B. Downey. No. 990,037; Apr. 18; Sp. p. 3741; Gaz. vol. 165; p. 647.
Pump for freeing water from its contained iron, Hand-. F. B. K. Schubert and G. Burger. No. 1,006,010; Oct. 17; Sp. p. 3155; Gaz. vol. 171; p. 567.
Pump for inflating rubber tires. C. A. Haas. No. 998,172; July 18; Sp. p. 3403; Gaz. vol. 168; p. 614.
Pump for liquid-sprayers. L. A. Aspinwall. No. 994,558; June 6; Sp. p. 950; Gaz. vol. 167; p. 157.
Pump for machine-tools and other purposes, Rotary. J. Smith. No. 1,007,742; Nov. 7; Sp. p. 199; Gaz. vol. 172; p. 32.
Pump for oil and like wells. C. W. Bell. No. 991,600; May 9; Sp. p. 1670; Gaz. vol. 166; p. 306.
Pump for portable vacuum-cleaners. I. K. Baxter and C. F. Barrett. No. 997,732; July 11; Sp. p. 2376; Gaz. vol. 168; p. 418.
Pump for use in pumping wood-pulp and similar substances. J. R. Kinney. No. 1,001,533; Aug. 22; Sp. p. 4974; Gaz. vol. 169; p. 897.
Pump for vacuum-cleaners, Suction-. J. C. Luden. No. 984,227; Feb. 14; Sp. p. 2129; Gaz. vol. 163; p. 360.
Pump for vacuum systems, Rotary. A. Wester. No. 1,000,566; Aug. 15; Sp. p. 2905; Gaz. vol. 169; p. 533.
Pump, Force-. F. L. Robertson. No. 984,158; Feb. 14; Sp. p. 1956; Gaz. vol. 163; p. 335.
Pump, Force-. S. O. Bertilsen. No. 1,011,149; Dec. 12; Sp. p. 1684; Gaz. vol. 173; p. 296.
Pump, Gas-. R. Whitaker and E. Lowe. No. 990,616; Apr. 25; Sp. p. 5046; Gaz. vol. 165; p. 879.
Pump, Governed. N. McCarty. No. 989,535; Apr. 11; Sp. p. 2647; Gaz. vol. 165; p. 445.
Pump-governor. E. M. Carr. No. 984,193; Feb. 14; Sp. p. 2022; Gaz. vol. 163; p. 347.
Pump governor, Air-. D. W. Ridinger. No. 991,647; May 9; Sp. p. 1763; Gaz. vol. 166; p. 323.
Pump governor, Automatic boiler-feed-. G. E. Witt. No. 1,012,782; Dec. 26; Sp. p. 5300; Gaz. vol. 173; p. 944.
Pump governor, Electric-. W. V. Turner. No. 1,004,943; Oct. 3; Sp. p. 851; Gaz. vol. 171; p. 139.
Pump governor, Steam air-. W. K. Rankin. No. 987,080; Mar. 14; Sp. p. 2756; Gaz. vol. 164; p. 477.
Pump, Ham-. C. S. Hardy. No. 982,601; Jan. 24; Sp. p. 5328; Gaz. vol. 162; p. 919.
Pump, Ham-. C. S. Hardy. No. 982,671; Jan. 24; Sp. p. 5471; Gaz. vol. 162; p. 943.
Pump-handle lock. C. Cornwall. No. 986,366; Mar. 7; Sp. p. 1279; Gaz. vol. 164; p. 207.
Pump, Heat-actuated gas-. C. A. Anderson. No. 987,938; Mar. 28; Sp. p. 4658; Gaz. vol. 164; p. 834.
Pump, High-pressure centrifugal. H. J. Schwade. No. 980,684; Jan. 3; Sp. p. 1103; Gaz. vol. 162; p. 176.
Pump, High-pressure rotary. S. Hughes. No. 1,012,642; Dec. 26; Sp. p. 4980; Gaz. vol. 173; p. 894.
Pump-holder. O. A. Olson. No. 1,010,945; Dec. 5; Sp. p. 1210; Gaz. vol. 173; p. 191.
Pump, Hydraulic. L. A. Laursen. No. 995,263; June 13; Sp. p. 2523; Gaz. vol. 167; p. 436.
Pump-jack and engine base, Combined. F. D. Winkley. No. 980,727; Jan. 3; Sp. p. 1186; Gaz. vol. 162; p. 189.
Pump, Lift-. T. Babin. No. 989,475; Apr. 11; Sp. p. 2495; Gaz. vol. 165; p. 423.
Pump, Lift-. J. B. Buckner. No. 1,009,892; Nov. 28; Sp. p. 4978; Gaz. vol. 172; p. 899.
Pump, Liquid-piston vacuum-. M. A. Moulin. No. 1,000,286; Aug. 8; Sp. p. 2272; Gaz. vol. 169; p. 402.
Pump lubricator, Air-. M. Carle and W. E. Kraft. No. 1,004,989; Oct. 3; Sp. p. 929; Gaz. vol. 171; p. 154.
Pump, Measuring-. E. Kupferle. No. 981,661; Jan. 17; Sp. p. 3318; Gaz. vol. 162; p. 564.
Pump, Measuring-. J. J. Hotchkiss. No. 981,856; Jan. 17; Sp. p. 3746; Gaz. vol. 162; p. 633.

Alphabetical list of inventions—Continued.

Pump, Measuring-. F. F. Davis and C. G. Holt. No. 998,281; July 18; Sp. p. 3674; Gaz. vol. 168; p. 655.
Pump, Measuring liquid-. R. F. Diserens. No. 1,009,725; Nov. 28; Sp. p. 4642; Gaz. vol. 172; p. 843.
Pump mechanism, Combined water and air. L. C. Allen. No. 997,891; July 11; Sp. p. 2762; Gaz. vol. 168; p. 473.
Pump, Membrane-. F. W. Winterhoff. No. 992,837; May 23; Sp. p. 4294; Gaz. vol. 166; p. 792.
Pump, Mercury vacuum-. H. A. Fleuss. No. 991,493; May 9; Sp. p. 1423; Gaz. vol. 166; p. 268.
Pump-motor. J. F. Andres. No. 994,101; May 30; Sp. p. 6988; Gaz. vol. 166; p. 1254.
Pump, Multicylinder suction and force. I. Hansen. No. 1,010,902; Dec. 5; Sp. p. 1117; Gaz. vol. 173; p. 175.
Pump, Multiple. S. L. Fulford. No. 992,493; May 16; Sp. p. 3578; Gaz. vol. 166; p. 642.
Pump, Oil-. B. M. W. Hanson and C. L. Grohmann. No. 984,811; Feb. 21; Sp. p. 3386; Gaz. vol. 163; p. 597.
Pump, Oil-. C. Barnes. No. 991,931; May 9; Sp. p. 2357; Gaz. vol. 166; p. 418.
Pump, Oil-. H. C. Clay. No. 993,292; May 23; Sp. p. 5259; Gaz. vol. 166; p. 943.
Pump, Oil-. J. B. Davis. No. 1,000,965; Aug. 15; Sp. p. 3760; Gaz. vol. 169; p. 672.
Pump, Oil-. P. E. Mack. No. 1,001,872; Aug. 29; Sp. p. 5719; Gaz. vol. 169; p. 1045.
Pump, Oil force-. L. F. Buehrig. No. 1,005,594; Oct. 10; Sp. p. 2265; Gaz. vol. 171; p. 390.
Pump, Oil-well. M. J. Morton. No. 985,052; Feb. 21; Sp. p. 3841; Gaz. vol. 163; p. 678.
Pump, Oil-well. D. Daniels. No. 998,076; July 18; Sp. p. 3203; Gaz. vol. 168; p. 580.
Pump-operating device. S. M. Gard. No. 986,561; Mar. 14; Sp. p. 1716; Gaz. vol. 164; p. 303.
Pump-operating mechanism. H. Linnartz. No. 996,777; July 4; Sp. p. 352; Gaz. vol. 168; p. 60.
Pump or blower, Centrifugal. J. J. Stoetzel. No. 1,003,542; Sept. 19; Sp. p. 2939; Gaz. vol. 170; p. 537.
Pump or compressor, Rotary. R. M. Sloan and Z. M. Lindley. No. 981,804; Jan. 17; Sp. p. 3611; Gaz. vol. 162; p. 614.
Pump or compressor, Vacuum. J. A. Lafore. No. 1,009,908; Nov. 28; Sp. p. 5008; Gaz. vol. 172; p. 904.
Pump-pipe-pulling device. P. C. Emanuel. No. 988,761; Apr. 4; Sp. p. 1020; Gaz. vol. 165; p. 162.
Pump-pipe-pulling device. P. C. Emanuel. No. 988,762; Apr. 4; Sp. p. 1022; Gaz. vol. 165; p. 162.
Pump-piston. T. Peters. No. 1,003,200; Sept. 12; Sp. p. 2235; Gaz. vol. 170; p. 384.
Pump-piston, Fluid-packing. J. Hahn. No. 993,521; May 30; Sp. p. 5777; Gaz. vol. 166; p. 1055.
Pump-plunger. H. Mead. No. 992,576; May 16; Sp. p. 3754; Gaz. vol. 166; p. 672.
Pump-plunger. H. Jones. No. 1,005,976; Oct. 17; Sp. p. 3092; Gaz. vol. 171; p. 555.
Pump-plunger, Self-lubricating. G. W. Baird. No. 987,788; Mar. 28; Sp. p. 4283; Gaz. vol. 164; p. 781.
Pump-plungers, Packing for. J. F. Schiller. No. 1,010,691; Dec. 5; Sp. p. 634; Gaz. vol. 173; p. 101.
Pump, Power-. J. H. Sutter. No. 995,581; June 20; Sp. p. 3248; Gaz. vol. 167; p. 574.
Pump pressure-governor. W. V. Turner. No. 1,003,163; Sept. 12; Sp. p. 2151; Gaz. vol. 170; p. 370.
Pump regulator, Boiler-feed-. W. H. Brummer. No. 997,038; July 4; Sp. p. 953; Gaz. vol. 168; p. 152.
Pump-rod connection. H. H. Wieck and W. L. Larson. No. 1,010,334; Nov. 28; Sp. p. 5884; Gaz. vol. 172; p. 1048.
Pump-rod equalizer. R. H. Johnson. No. 994,928; June 13; Sp. p. 1848; Gaz. vol. 167; p. 325.
Pump-rod guide-bearing. J. H. Range. No. 982,870; Jan. 31; Sp. p. 5919; Gaz. vol. 162; p. 1039.
Pump-rod lifter. L. Johnson. No. 984,764; Feb. 21; Sp. p. 3297; Gaz. vol. 163; p. 581.
Pump, Rotary. A. E. Stoker. No. 982,895; Jan. 31; Sp. p. 5970; Gaz. vol. 162; 1047.
Pump, Rotary. A. Fournier. No. 987,711; Mar. 28; Sp. p. 4127; Gaz. vol. 164; p. 755.
Pump, Rotary. I. B. Humphreys. No. 991,314; May 2; Sp. p. 1053; Gaz. vol. 166; p. 176.
Pump, Rotary. J. R. Kinney. No. 993,530; May 30; Sp. p. 5795; Gaz. vol. 166; p. 1058.
Pump, Rotary. A. Cotoli. No. 994,573; June 6; Sp. p. 981; Gaz. vol. 167; p. 162.
Pump, Rotary. B. K. Morehouse. No. 997,204; July 4; Sp. p. 1276; Gaz. vol. 168; p. 207.
Pump, Rotary. F. J. Curtis. No. 999,753; Aug. 8; Sp. p. 1113; Gaz. vol. 169; p. 220.
Pump, Rotary. E. N. Hill. No. 999,787; Aug. 8; Sp. p. 1176; Gaz. vol. 169; p. 232.
Pump, Rotary. A. P. Smith. No. 1,000,305; Aug. 8; Sp. p. 2303; Gaz. vol. 169; p. 409.
Pump, Rotary. R. W. Vail. No. 1,000,464; Aug. 15; Sp. p. 2667; Gaz. vol. 169; p. 495.
Pump, Rotary. A. T. Beach and H. C. Russ. No. 1,002,023; Aug. 29; Sp. p. 6047; Gaz. vol. 169; p. 1094.
Pump, Rotary. J. Raclot and C. Enderlin. No. 1,002,176; Aug. 29; Sp. p. 6325; Gaz. vol. 169; p. 1143.
Pump, Rotary. S. J. Webb. No. 1,003,020; Sept. 12; Sp. p. 1854; Gaz. vol. 170; p. 321.
Pump, Rotary. S. C. Smith. No. 1,004,212; Sept. 26; Sp. p. 4490; Gaz. vol. 170; p. 795.
Pump, Rotary. J. R. Kinney. No. 1,007,033; Oct. 24; Sp. p. 5441; Gaz. vol. 171; p. 954.
Pump, Rotary. D. S. Bond. No. 1,012,237; Dec. 19; Sp. p. 4147; Gaz. vol. 173; p. 711.
Pump, Rotary impelling-. G. W. Wright. No. 1,004,331; Sept. 26; Sp. p. 4721; Gaz. vol. 170; p. 835.
Pump, Rotary reversible-plunger. W. J. Vincent and F. J. Hancox. No. 996,543; June 27; Sp. p. 5370; Gaz. vol. 167; p. 940.
Pump, Sand-. F. L. Casper. No. 1,003,874; Sept. 19; Sp. p. 3658; Gaz. vol. 170; p. 651.
Pump sand-trap. R. Conrader. No. 981,172; Jan. 10; Sp. p. 2272; Gaz. vol. 162; p. 375.
Pump, Sanitary. A. Jensen. No. 1,007,448; Oct. 31; Sp. p. 6366; Gaz. vol. 171; p. 1156.
Pump, Screw-. E. S. Bennett. No. 1,012,504; Dec. 19; Sp. p. 4670; Gaz. vol. 173; p. 802.
Pump, Self-measuring. C. G. Holt. No. 1,011,790; Dec. 12; Sp. p. 3131; Gaz. vol. 173; p. 523.
Pump-shelf. T. R. Barnes. No. 1,006,994; Oct. 24; Sp. p. 5364; Gaz. vol. 171; p. 941.
Pump-stand. P. A. Myers. No. 986,305; Mar. 7; Sp. p. 1136; Gaz. vol. 164; p. 184.
Pump, Steam-. B. O. Gage. No. 999,642; Aug. 1; Sp. p. 874; Gaz. vol. 169; p. 152.
Pump, Steam-. B. O. Gage. No. 999,711; Aug. 1; Sp. p. 1011; Gaz. vol. 169; p. 176.
Pump, Suction-. C. R. Smith. No. 983,253; Jan. 31; Sp. p. 6727; Gaz. vol. 162; p. 1166.
Pump, Suction-. N. H. Freeman. No. 983,865; Feb. 7; Sp. p. 1316; Gaz. vol. 163; p. 209.
Pump, Surf-. G. W. T. Snare. No. 992,390; May 16; Sp. p. 3373; Gaz. vol. 166; p. 607.
Pump system. W. K. Read. No. 998,717; July 25; Sp. p. 4619; Gaz. vol. 168; p. 840.
Pump, Tire-. B. S. Coe. No. 990,838; May 2; Sp. p. 21; Gaz. vol. 166; p. 6.
Pump, Tire-. J. W. Neblett. No. 991,010; May 2; Sp. p. 384; Gaz. vol. 166; p. 66.
Pump, Turbine-. W. L. Forward. No. 987,976; Mar. 28; Sp. p. 4754; Gaz. vol. 164; p. 848.
Pump, Turbine-driven centrifugal. W. Scheurmann. No. 1,004,822; Oct. 3; Sp. p. 583; Gaz. vol. 171; p. 96.
Pump, Vacuum-. F. Aronson. No. 999,290; Aug. 1; Sp. p. 182; Gaz. vol. 169; p. 35.
Pump, Vacuum-. H. B. Cooley. No. 1,005,515; Oct. 10; Sp. p. 2054; Gaz. vol. 171; p. 361.
Pump-valve. J. J. Ballard and F. W. Parsons. No. 980,184; Jan. 3; Sp. p. 15; Gaz. vol. 162; p. 5.
Pump-valve. J. E. Householder. No. 982,677; Jan. 24; Sp. p. 5481; Gaz. vol. 162; p. 945.
Pump-valve. E. D. Orton. No. 999,584; Aug. 1; Sp. p. 771; Gaz. vol. 169; p. 134.
Pump-valve. C. O. Lucas. No. 1,003,479; Sept. 19; Sp. p. 2813; Gaz. vol. 170; p. 515.
Pump-valve. T. J. O'Brien. No. 1,005,744; Oct. 10; Sp. p. 2567; Gaz. vol. 171; p. 442.
Pump-valve. R. A. Lyons. No. 1,006,964; Oct. 24; Sp. p. 5297; Gaz. vol. 171; p. 931.
Pump valve mechanism. A. E. Moorhead. No. 988,945; Apr. 4; Sp. p. 1370; Gaz. vol. 165; p. 219.
Pump valve mechanism, Steam-. G. B. Gates. No. 997,616; July 11; Sp. p. 2113; Gaz. vol. 168; p. 376.
Pump, Valveless lubricating-. O. Hajek. No. 1,006,378; Oct. 17; Sp. p. 3993; Gaz. vol. 171; p. 695.
Pump, Well-. C. O. and F. E. Sprague. No. 1,007,152; Oct. 31; Sp. p. 5734; Gaz. vol. 171; p. 1051.
Pump, Well-. J. P. Nicholas. No. 1,008,858; Nov. 14; Sp. p. 2751; Gaz. vol. 172; p. 463.
Pump, Windmill-. W. Snee. No. 1,001,176; Aug. 22; Sp. p. 4250; Gaz. vol. 169; p. 778.
Pumps and compressors, Operating internal-combustion. H. M. and T. M. Chance. No. 1,011,410; Dec. 12; Sp. p. 2265; Gaz. vol. 173; p. 387.
Pumps and drills, Means for operating walking-beams of deep-well. G. M. Bradrick. No. 987,427; Mar. 21; Sp. p. 3519; Gaz. vol. 164; p. 629.
Pumps, Automatic by-pass for. A. E. Moorhead. No. 1,001,295; Aug. 22; Sp. p. 4502; Gaz. vol. 169; p. 817.
Pumps, Automatic start and stop feed for oil-. W. S. Sherman and A. J. West. No. 986,512; Mar. 14; Sp. p. 1606; Gaz. vol. 164; p. 285.
Pumps, Automatic suction by-pass for. I. Cowles. No. 995,057; June 13; Sp. p. 2120; Gaz. vol. 167; p. 368.
Pumps, Control for sewage and other. J. R. Kinney. No. 1,003,757; Sept. 19; Sp. p. 3425; Gaz. vol. 170; p. 611.
Pumps, Control-valve for water-jacketed. W. V. Turner. No. 985,864; Mar. 7; Sp. p. 220; Gaz. vol. 164; p. 36.
Pumps, End-thrust counterbalance for centrifugal. A. C. Paulsmeier. No. 1,009,928; Nov. 28; Sp. p. 5044; Gaz. vol. 172; p. 910.
Pumps, Lining-plunger for oil-well. D. Daniels and L. P. Burgess. No. 987,347; Mar. 21; Sp. p. 3356; Gaz. vol. 164; p. 602.
Pumps, Liquid packing for. J. V. O. Palm. (Reissue.) No. 13,325; Nov. 28; Sp. p. 6051; Gaz. vol. 172; p. 1070.
Pumps, Means for automatically draining. H. C. Fuhrman. No. 1,003,592; Sept. 19; Sp. p. 3068; Gaz. vol. 170; p. 553.

Pumps, Means for driving air and gas. B. M. Aslakson. No. 1,007,662; Nov. 7; Sp. p. 6; Gaz. vol. 172; p. 4.
Pumps, Means for priming centrifugal. L. Desmarais. No. 995,846; June 20; Sp. p. 3839; Gaz. vol. 167; p. 668.
Pumps or blasts, Means for regulating the compensation of the axial thrust in centrifugal. H. A. Hülsenberg. No. 981,763; Jan. 17; Sp. p. 3537; Gaz. vol. 162; p. 599.
Pumps, Working barrel for. C. A. Waitz. No. 1,010,098; Nov. 28; Sp. p. 5409; Gaz. vol. 172; p. 970.
Pumps, Working barrel for oil-well. D. Daniels and L. P. Burgess. No. 1,004,151; Sept. 26; Sp. p. 4373; Gaz. vol. 170; p. 775.
Pumping apparatus. F. C. Weber. No. 984,329; Feb. 14; Sp. p. 2340; Gaz. vol. 163; p. 396.
Pumping apparatus. S. E. Aaron. No. 1,012,789; Dec. 26; Sp. p. 5315; Gaz. vol. 173; p. 946.
Pumping apparatus, Centrifugal. H. Keller. No. 1,008,601; Nov. 14; Sp. p. 2210; Gaz. vol. 172; p. 377.
Pumping device. J. Desmond. No. 1,007,275; Oct. 31; Sp. p. 5999; Gaz. vol. 171; p. 1095.
Pumping-head. S. M. Fulton. No. 997,445; July 11; Sp. p. 1759; Gaz. vol. 168; p. 319.
Pumping-jack. H. G. Smith. No. 992,075; May 9; Sp. p 2615; Gaz. vol. 166; p. 465.
Pumping-jack. A. Peercy and E. M. Bretz. No. 995,032; June 13; Sp. p. 2056; Gaz. vol. 167; p. 360.
Pumping-machine, Pneumatic. C. E. Harker. No. 993,985; May 30; Sp. p. 6755; Gaz. vol. 166; p. 1214.
Pumping machinery. D. J. Kiser. No. 992,002; May 9; Sp. p. 2484; Gaz. vol. 166; p. 441.
Pumping oil-wells, Swing-frame for. C. L. Heisler and L. G. Neely. No. 989,708; Apr. 18; Sp. p. 3032; Gaz. vol. 165; p. 534.
Pumping outfits, Swivel rope-socket for wire-line. L. C. Sands. No. 982,998; Jan. 31; Sp. p. 6197; Gaz. vol. 162; p. 1081.
Pumping system. E. H. Perkins. No. 994,335; June 6; Sp. p. 480; Gaz. vol. 167; p. 82.
Pumping system. F. C. Weber. No. 998,059; July 18; Sp. p. 3163; Gaz. vol. 168; p. 574.
Pumping system, Subterranean. F. C. Weber. No. 990,085; Apr. 18; Sp. p. 3823; Gaz. vol. 165; p. 663.
Punch. W. J. Godwin. No. 987,355; Mar. 21; Sp. p. 3372; Gaz. vol. 164; p. 605.
Punch. A. Coon. No. 988,976; Apr. 11; Sp. p. 1432; Gaz. vol. 165; p. 253.
Punch. L. E. Gilchrist. No. 990,543; Apr. 25; Sp. p. 4902; Gaz. vol. 165; p. 855.
Punch. C. H. Higgins. No. 990,553; Apr. 25; Sp. p. 4917; Gaz. vol. 165; p. 858.
Punch. W. A. Whitney. (Reissue.) No. 13,313; Nov. 14; Sp. p. 3131; Gaz. vol. 172; p. 521.
Punch gage, Center-. A. D. Goughnour. No. 1,003,043; Sept. 12; Sp. p. 1903; Gaz. vol. 170; p. 328.
Punch, Gang-. W. O. Besaw. No. 984,530; Feb. 21; Sp. p. 2786; Gaz. vol. 163; p. 498.
Punch, Leather-. J. E. Fuller. No. 1,012,838; Dec. 26; Sp. p. 5431; Gaz. vol. 173; p. 963.
Punch or borer for leather and similar substances. G. Schrade. No. 999,060; July 25; Sp. p. 5401; Gaz. vol. 168; p. 961.
Punch, Paper-fastening. B. W. Hurd. No. 980,787; Jan. 3; Sp. p. 1304; Gaz. vol. 162; p. 209.
Punch-press. P. E. Bagge. No. 989,476; Apr. 11; Sp. p. 2496; Gaz. vol. 165; p. 428.
Punch-press. P. S. Souders. No. 998,806; July 25; Sp. p. 4821; Gaz. vol. 168; p. 871.
Punch-press guard. P. Z. Kohlhaas. No. 1,001,050; Aug. 22; Sp. p. 4008; Gaz. vol. 169; p. 737.
Punch-presses, Automatic pneumatic feed for. C. Baumgartner. No. 1,001,606; Aug. 29; Sp. p. 5134; Gaz. vol. 169; p. 952.
Punches, Making stencil-machine character-. S. D. Hartog. No. 994,463; June 6; Sp. p. 737; Gaz. vol. 167; p. 126.
Punching and counting mechanism, Combined. J. Powers. No. 992,245; May 16; Sp. p. 3018; Gaz. vol. 166; p. 556.
Punching and riveting machine, Combined. H. E. Brett. No. 980,405; Jan. 3; Sp. p. 467; Gaz. vol. 162; p. 80.
Punching and riveting machine, Combined. J. A. Talbot and H. E. Brett. No. 980,450; Jan. 3; Sp. p. 581; Gaz. vol. 162; p. 96.
Punching-bag apparatus. G. F. Fanning. No. 990,430; Apr. 25; Sp. p. 4643; Gaz. vol. 165; p. 816.
Punching-bag apparatus. N. W. White. No. 990,467; Apr. 25; Sp. p. 4710; Gaz. vol. 165; p. 828.
Punching-machine. S. Bigazzi and V. Scopetani. No. 980,478; Jan. 3; Sp. p. 644; Gaz. vol. 162; p. 106.
Punching-machine. A. Loudershausen. No. 982,149; Jan. 17; Sp. p. 4380; Gaz. vol. 162; p. 732.
Punching-machine. A. Bates. No. 994,298; June 6; Sp. p. 401; Gaz. vol. 167; p. 68.
Punching-machine. A. Freier. No. 996,073; June 27; Sp. p. 4304; Gaz. vol. 167; p. 781.
Punching-machine. E. V. Bair. No. 997,946; July 18; Sp. p. 2909; Gaz. vol. 168; p. 534.
Punching-machine. A. A. Pons. No. 1,007,311; Oct. 31; Sp. p. 6069; Gaz. vol. 171; p. 1107.
Punching, shearing, and bar-cutting machine, Combined. H. B. Kraut. No. 1,006,761; Oct. 24; Sp. p. 4837; Gaz. vol. 171; p. 860.
Puncturing and inking means. T. McCampbell. No. 999,824; Aug. 8; Sp. p. 1243; Gaz. vol. 169; p. 243.
Purifier. T. M. Coyle. No. 981,065; Jan. 10; Sp. p. 2051; Gaz. vol. 162; p. 337.
Purifier. C. W. Clark. No. 984,472; Feb. 14; Sp. p. 2620; Gaz. vol. 163; p. 442.
Purifier. G. T. Smith. No. 994,280; June 6; Sp. p. 368; Gaz. vol. 167; p. 63.
Purse. F. Holroyd. No. 994,399; June 6; Sp. p. 625; Gaz. vol. 167; p. 107.
Purse. W. E. Beck. No. 1,002,554; Sept. 5; Sp. p. 832; Gaz. vol. 170; p. 122.
Purse. F. X. Schaufenbühl. No. 1,009,585; Nov. 21; Sp. p. 4360; Gaz. vol. 172; p. 751.
Push-button. C. Auth. No. 985,101; Feb. 21; Sp. p. 3931; Gaz. vol. 163; p. 694.
Push-button. F. E. Altemus. No. 994,493; June 6; Sp. p. 793; Gaz. vol. 167; p. 135.
Push-button, Electric. J. L. Morrell. No. 1,006,394; Oct. 17; Sp. p. 4026; Gaz. vol. 171; p. 702.
Push-button switch. E. D. Stalfort. No. 992,077; May 9; Sp. p. 2618; Gaz. vol. 166; p. 466.
Push-button switch. M. H. Spielman. No. 994,040; May 30; Sp. p. 6864; Gaz. vol. 166; p. 1233.
Push-button system for desks and the like. B. L. Weaver and W. R. Miller. No. 1,003,677; Sept. 19; Sp. p. 3246; Gaz. vol. 170; p. 585.
Puzzle. C. T. Leach. No. 983,730; Feb. 7; Sp. p. 1015; Gaz. vol. 163; p. 162.
Puzzle. G. E. Erickson. No. 985,253; Feb. 28; Sp. p. 4324; Gaz. vol. 163; p. 781.
Puzzle. C. E. Dowd. No. 988,758; Apr. 4; Sp. p. 1010; Gaz. vol. 165; p. 160.
Puzzle. G. W. Naylor. No. 993,456; May 30; Sp. p. 5635; Gaz. vol. 166; p. 1031.
Puzzle. H. C. Davidson. No. 993,581; May 30; Sp. p. 5903; Gaz. vol. 166; p. 1075.
Puzzle. G. S. Wood. No. 999,940; Aug. 8; Sp. p. 1496; Gaz. vol. 169; p. 283.
Puzzle. A. K. Rankin. No. 1,006,878; Oct. 24; Sp. p. 5129; Gaz. vol. 171; p. 903.
Puzzle. E. D. Smith. No. 1,012,462; Dec. 19; Sp. p. 4586; Gaz. vol. 173; p. 786.
Puzzle, Historical and educational. L. S. Whitelaw. No. 994,227; June 6; Sp. p. 261; Gaz. vol. 167; p. 45.
Puzzle or toy. W. J. P. Olsen. No. 1,004,680; Oct. 3; Sp. p. 274; Gaz. vol. 171; p. 48.
Pyrites for bisulfite-of-lime manufacture, &c., Utilizing. V. Drewsen. No. 981,625; Jan. 17; Sp. p. 3262; Gaz. vol. 162; p. 554.
Pyrometer. A. W. Diack. No. 1,000,673; Aug. 15; Sp. p. 3152; Gaz. vol. 169; p. 571.
Pyrotechnics. H. J. Pain. No. 981,677; Jan. 17; Sp. p. 3351; Gaz. vol. 162; p. 569.
Pyroxylin plastic and making same. L. Ach. No. 996,191; June 27; Sp. p. 4606; Gaz. vol. 167; p. 822.
Quartz-mill. S. C. Arnold. No. 993,746; May 30; Sp. p. 6286; Gaz. vol. 166; p. 1134.
Quick-acting wrench. A. Falk. No. 995,337; June 13; Sp. p. 2685; Gaz. vol. 167; p. 460.
Quickly-adjustable bolt. A. J. Wilson and A. Larson. No. 1,005,492; Oct. 10; Sp. p. 2005; Gaz. vol. 171; p. 353.
Quilling-machine. G. Sipp. No. 985,947; Mar. 7; Sp. p. 408; Gaz. vol. 164; p. 65.
Quilling-machine. G. Adsit. No. 1,005,405; Oct. 10; Sp. p. 1814; Gaz. vol. 171; p. 323.
Quilt, Footboard-. P. D. Stannard. No. 993,119; May 23; Sp. p. 4926; Gaz. vol. 166; p. 891.
Quilting-frame. J. C. A. Gehm. No. 981,547; Jan. 10; Sp. p. 3095; Gaz. vol. 162; p. 505.
Quilting-frame. L. Trantham. No. 983,957; Feb. 14; Sp. p. 1530; Gaz. vol. 163; p. 268.
Quilting-frame. C. S. Van Dolsen. No. 988,913; Apr. 4; Sp. p. 1300; Gaz. vol. 165; p. 209.
Quilting-frame. E. S. Mann. No. 994,526; June 6; Sp. p. 884; Gaz. vol. 167; p. 147.
Quilting-frame. E. D. Williams. No. 999,535; Aug. 1; Sp. p. 677; Gaz. vol. 169; p. 116.
Quilting-frame. J. G. Althause. No. 1,000,064; Aug. 8; Sp. p. 1769; Gaz. vol. 169; p. 326.
Quilting-frame, Collapsible. H. M. Brooks. No. 991,476; May 9; Sp. p. 1385; Gaz. vol. 166; p. 261.
Quilting-machine. A. W. Britter. No. 995,320; June 13; Sp. p. 2618; Gaz. vol. 167; p. 453.
Quilting-machine attachment. J. C. Touchstone. No. 983,182; Jan. 31; Sp. p. 6559; Gaz. vol. 162; p. 1141.
Rack: *See* Baggage-rack; Bottle-rack; Box-rack; Bread-rack; Can-rack; Cigar-rack; Clothes-rack; Combination-rack; Convertible rack; Cooling-rack; Cue-rack; Currency-rack; Desk-rack; Dish rinsing and drying rack; Display-rack; Drain-rack; Draining-rack; Drying-rack; Dumping-rack; Egg-rack; Electroplating-rack; Feed-rack; Folding rack; Garment-rack; Hat-rack; Hay-rack; Hay and stock rack; Horseshoeing-rack; Hose-rack; Log-rack; Mail-car bag-rack; Pattern-rack; Photographic-plate rack; Post-card rack; Robe-rack; Separator-disk rack; Shoe-rack; Supporting-rack; Thresher-rack; Towel-rack; Wagon-rack; Wagon hay-rack; Wall-rack; Wire rack; Work-supporting rack.
Rack. C. D. Wiselogel. No. 993,491; May 30; Sp. p. 5716; Gaz. vol. 166; p. 1045.

Alphabetical list of inventions—Continued.

Rack-cutting machines, Feeding blanks to. N. H. Fay. No. 1,001,008; Aug. 22; Sp. p. 3919; Gaz. vol. 169; p. 721.
Rack-lifter. E. J. Scott. No. 987,831; Mar. 28; Sp. p. 4377; Gaz. vol. 164; p. 797.
Racks, Holding attachment for. E. W. Senecal. No. 985,294; Feb. 28; Sp. p. 4419; Gaz. vol. 163; p. 796.
Radiator. G. M. Aylsworth. No. 981,519; Jan. 10; Sp. p. 3038; Gaz. vol. 162; p. 495.
Radiator. R. Thiel. No. 982,163; Jan. 17; Sp. p. 4400; Gaz. vol. 162; p. 737.
Radiator. J. A. Wilson, Jr. No. 982,334; Jan. 24; Sp. p. 4777; Gaz. vol. 162; p. 827.
Radiator. J. M. Fedders. No. 988,699; Apr. 4; Sp. p. 870; Gaz. vol. 165; p. 140.
Radiator. F. P. Galvin. No. 989,243; Apr. 11; Sp. p. 2007; Gaz. vol. 165; p. 344.
Radiator. J. M. Fedders. No. 992,763; May 23; Sp. p. 4134; Gaz. vol. 166; p. 765.
Radiator. F. Todd. No. 993,318; May 23; Sp. p. 5309; Gaz. vol. 166; p. 953.
Radiator. J. M. Fedders. No. 993,354; May 30; Sp. p. 5408; Gaz. vol. 166; p. 998.
Radiator. K. M. Boblett. No. 1,000,068; Aug. 8; Sp. p. 1776; Gaz. vol. 169; p. 327.
Radiator. J. M. Fedders. No. 1,002,978; Sept. 12; Sp. p. 1775; Gaz. vol. 170; p. 307.
Radiator. H. C. Harrison. No. 1,005,028; Oct. 3; Sp. p. 1002; Gaz. vol. 171; p. 167.
Radiator. F. Clare. No. 1,007,643; Oct. 31; Sp. p. 6792; Gaz. vol. 171; p. 1221.
Radiator. F. W. Dilks, D. Reyam, and E. E. Du Pont. No. 1,008,707; Nov. 14; Sp. p. 2441; Gaz. vol. 172; p. 412.
Radiator. W. C. McKeown. No. 1,008,844; Nov. 14; Sp. p. 2729; Gaz. vol. 172; p. 459.
Radiator. A. Baerenklau, J. L. Flanagan, and J. L. Winters. No. 1,011,880; Dec. 12; Sp. p. 3320; Gaz. vol. 173; p. 551.
Radiator. C. S. Sage. No. 1,012,716; Dec. 26; Sp. p. 5139; Gaz. vol. 173; p. 921.
Radiator and radiator-sections therefor. F. A. Feldkamp. No. 1,008,592; Nov. 14; Sp. p. 2185; Gaz. vol. 172; p. 373.
Radiator, Base-board. E. E. and P. J. Van Pool. No. 1,010,205; Nov. 28; Sp. p. 5619; Gaz. vol. 172; p. 1005.
Radiator-cap. C. P. Abs. No. 995,314; June 13; Sp. p. 2605; Gaz. vol. 167; p. 451.
Radiator connection. H. W. Armstrong. No. 981,355; Jan. 10; Sp. p. 2710; Gaz. vol. 162; p. 439.
Radiator construction. V. J. Mayo. No. 1,000,338; Aug. 8; Sp. p. 2366; Gaz. vol. 169; p. 418.
Radiator construction. V. J. Mayo. No. 1,000,339; Aug. 8; Sp. p. 2370; Gaz. vol. 169; p. 419.
Radiator, Electric. G. Egly. No. 1,012,617; Dec. 26; Sp. p. 4920; Gaz. vol. 173; p. 886.
Radiator element. E. and H. Behringer. No. 997,949; July 18; Sp. p. 2916; Gaz. vol. 168; p. 535.
Radiator for cooling fluids. G. I. Onions and G. Adolphson. No. 989,185; Apr. 11; Sp. p. 1875; Gaz. vol. 165; p. 325.
Radiator, Grate-. E. M. Coyne. No. 996,703; July 4; Sp. p. 216; Gaz. vol. 168; p. 37.
Radiator, Hot-water. W. Andrews. No. 989,751; Apr. 18; Sp. p. 3124; Gaz. vol. 165; p. 549.
Radiator-section. F. A. Feldkamp. No. 999,441; Aug. 1; Sp. p. 488; Gaz. vol. 169; p. 85.
Radiator-sections, Machine for making. V. J. Mayo and S. Gargiulo. No. 1,012,568; Dec. 19; Sp. p. 4800; Gaz. vol. 173; p. 825.
Radiator-sections, Making one-piece. F. A. Feldkamp. No. 997,610; July 11; Sp. p. 2098; Gaz. vol. 168; p. 374.
Radiator-sections, Making one-piece. F. A. Feldkamp. No. 997,768; July 11; Sp. p. 2469; Gaz. vol. 168; p. 431.
Radiator, Steam-. S. L. McBurney. No. 989,989; Apr. 18; Sp. p. 3651; Gaz. vol. 165; p. 632.
Radiator, Steam or hot-water. T. H. Walker. No. 981,231; Jan. 10; Sp. p. 2443; Gaz. vol. 162; p. 396.
Radiators, Adjustable foot-rest or shelf for. H. M. Allen. No. 1,004,959; Oct. 3; Sp. p. 879; Gaz. vol. 171; p. 144.
Radiators and registers, Extensible foot-rest for. M. B. Goodwin. No. 1,004,775; Oct. 3; Sp. p. 492; Gaz. vol. 171; p. 81.
Radiators, Dust-collecting shield for heating-. C. W. G. Sodemann. No. 1,009,195; Nov. 21; Sp. p. 3474; Gaz. vol. 172; p. 613.
Radiators, Vacuum-controlled system for. G. Mehring. No. 999,329; Aug. 1; Sp. p. 260; Gaz. vol. 169; p. 48.
Radiography, Automatic stereoscopic. E. W. Kelly. No. 998,850; July 25; Sp. p. 4924; Gaz. vol. 168; p. 886.
Radium compounds, Extracting. F. Ulzer and R. Sommer. No. 1,001,480; Aug. 22; Sp. p. 4871; Gaz. vol. 169; p. 879.
Raft. L. Hill. No. 1,007,444; Oct. 31; Sp. p. 6357; Gaz. vol. 171; p. 1154.
Rafter-bracket. R. C. King. No. 1,010,771; Dec. 5; Sp. p. 839; Gaz. vol. 173; p. 130.
Rail. J. Backus. No. 983,471; Feb. 7; Sp. p. 465; Gaz. vol. 163; p. 74.
Rail adjustment, Guard-. E. M. Robinson. No. 980,440; Jan. 3; Sp. p. 546; Gaz. vol. 162; p. 92.
Rail-anchor. W. M. Mitchell. No. 993,455; May 30; Sp. p. 5633; Gaz. vol. 166; p. 1031.
Rail-anchor. J. M. Scott. No. 995,488; June 20; Sp. p. 3037; Gaz. vol. 167; p. 541.
Rail-anchor. B. B. Betts. No. 996,905; July 4; Sp. p. 636; Gaz. vol. 168; p. 104.
Rail-anchor. C. F. Clawson. No. 999,299; Aug. 1; Sp. p. 205; Gaz. vol. 169; p. 39.
Rail-anchor. H. H. Sponenburg. No. 1,001,177; Aug. 22; Sp. p. 4252; Gaz. vol. 169; p. 778.
Rail-anchor. P. W. Moore. No. 1,008,183; Nov. 7; Sp. p. 1139; Gaz. vol. 172; p. 187.
Rail and fish joint. S. and C. Ware. No. 1,004,945; Oct. 3; Sp. p. 857; Gaz. vol. 171; p. 140.
Rail and rail-joint. W. S. Truxal. No. 985,475; Feb. 28; Sp. p. 4827; Gaz. vol. 163; p. 858.
Rail and rail-tie plate. H. E. Haight. No. 1,004,778; Oct. 3; Sp. p. 499; Gaz. vol. 171; p. 82.
Rail and splice-bar. E. Esliger. No. 991,284; May 2; Sp. p. 983; Gaz. vol. 166; p. 165.
Rail and tie clamp. D. L. Rice. No. 992,520; May 16; Sp. p. 3635; Gaz. vol. 166; p. 652.
Rail-anticreeper. S. E. Nelson. No. 1,003,058; Sept. 12; Sp. p. 1925; Gaz. vol. 170; p. 333.
Rail-anticreeping device. E. M. Smith. No. 981,322; Jan. 10; Sp. p. 2628; Gaz. vol. 162; p. 428.
Rail-anticreeping device. E. M. Smith. No. 981,323; Jan. 10; Sp. p. 2629; Gaz. vol. 162; p. 428.
Rail-anticreeping device. J. G. Wolfe. No. 982,337; Jan. 24; Sp. p. 4781; Gaz. vol. 162; p. 828.
Rail-anticreeping device. E. M. Smith. No. 983,942; Feb. 14; Sp. p. 1498; Gaz. vol. 163; p. 264.
Rail-anticreeping device. E. M. Smith. No. 987,181; Mar. 21; Sp. p. 2999; Gaz. vol. 164; p. 545.
Rail, Antifriction-. D. Mauck. No. 1,012,093; Dec. 19; Sp. p. 3826; Gaz. vol. 173; p. 662.
Rail-antispreader. E. D. Clark. No. 1,007,066; Oct. 31; Sp. p. 5538; Gaz. vol. 171; p. 1019.
Rail-binder. J. Campbell. No. 998,276; July 18; Sp. p. 3655; Gaz. vol. 168; p. 653.
Rail-bond. J. A. Jamison. No. 983,235; Jan. 31; Sp. p. 6683; Gaz. vol. 162; p. 1161.
Rail-bond. G. A. Humason and E. F. Odell. No. 987,072; Mar. 14; Sp. p. 2744; Gaz. vol. 164; p. 474.
Rail-bond. A. B. Herrick. No. 987,136; Mar. 21; Sp. p. 2879; Gaz. vol. 164; p. 529.
Rail-bond. J. M. Atkinson and L. A. Scovil. No. 990,620; Apr. 25; Sp. p. 5054; Gaz. vol. 165; p. 881.
Rail-bond. W. B. Noble and D. K. Dabaghian. No. 994,652; June 6; Sp. p. 1158; Gaz. vol. 167; p. 190.
Rail-bond. W. B. Cleveland. No. 994,818; June 13; Sp. p. 1572; Gaz. vol. 167; p. 288.
Rail-bond. G. W. Knox. No. 995,685; June 20; Sp. p. 3472; Gaz. vol. 167; p. 612.
Rail-bond. W. H. Wherry. No. 1,002,348; Sept. 5; Sp. p. 393; Gaz. vol. 170; p. 55.
Rail-bond. I. W. Burgess. No. 1,006,354; Oct. 17; Sp. p. 3936; Gaz. vol. 171; p. 688.
Rail-bond. H. Milliken. No. 1,009,166; Nov. 21; Sp. p. 3408; Gaz. vol. 172; p. 602.
Rail bond, Electrical-. H. B. Conway. No. 990,634; Apr. 25; Sp. p. 5079; Gaz. vol. 165; p. 885.
Rail-brace. J. I. Jonas. No. 997,391; July 11; Sp. p. 1662; Gaz. vol. 168; p. 301.
Rail-brace. A. C. Herbert. No. 1,004,255; Sept. 26; Sp. p. 4582; Gaz. vol. 170; p. 810.
Rail-brace. J. Smith. No. 1,004,701; Oct. 3; Sp. p. 321; Gaz. vol. 171; p. 55.
Rail-brace. C. H. Stedman. No. 1,010,969; Dec. 5; Sp. p. 1257; Gaz. vol. 173; p. 199.
Rail brace and fastener. A. T. Kramer. No. 1,004,441; Sept. 26; Sp. p. 4958; Gaz. vol. 170; p. 872.
Rail brake, Third-. W. M. Dilliard. No. 987,052; Mar. 14; Sp. p. 2711; Gaz. vol. 164; p. 469.
Rail-chair. J. N. Bonnell. No. 982,236; Jan. 24; Sp. p. 4557; Gaz. vol. 162; p. 792.
Rail-chair. J. F. Kersteter. No. 987,578; Mar. 21; Sp. p. 3821; Gaz. vol. 164; p. 681.
Rail-chair. R. M. Williams, Jr. No. 994,290; June 6; Sp. p. 387; Gaz. vol. 167; p. 66.
Rail-chair. N. S. Babcock. No. 995,941; June 20; Sp. p. 4031; Gaz. vol. 167; p. 701.
Rail chair and brace. O. Payzant. No. 999,588; Aug. 1; Sp. p. 779; Gaz. vol. 169; p. 135.
Rail chair and fastener, Combined. L. Wildman. No. 1,010,995; Dec. 5; Sp. p. 1311; Gaz. vol. 173; p. 208.
Rail-chair and joint-lock, Combined. R. R. Ditzel. No. 999,552; Aug. 1; Sp. p. 712; Gaz. vol. 169; p. 122.
Rail-clamp. W. F. Hetrick. No. 1,008,542; Nov. 14; Sp. p. 2069; Gaz. vol. 172; p. 353.
Rail-clamp and machine-tool, Combination. C. J. Coulter. No. 990,115; Apr. 18; Sp. p. 3889; Gaz. vol. 165; p. 672.
Rail clamp, Guard-. C. W. Reinoehl and W. M. Henderson. No. 987,400; Mar. 21; Sp. p. 3473; Gaz. vol. 164; p. 621.
Rail clamp, Guard-. G. M. Ervin. No. 987,972; Mar. 28; Sp. p. 4746; Gaz. vol. 164; p. 846.
Rail clamp, Guard-. J. G. Wolfe. No. 988,056; Mar. 28; Sp. p. 4924; Gaz. vol. 164; p. 874.
Rail clamp, Guard-. G. L. Hall. No. 993,595; May 30; Sp. p. 5935; Gaz. vol. 166; p. 1081.

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Rail clamp, Guard-. G. L. Hall. No. 993,596; May 30; Sp. p. 5937; Gaz. vol. 166; p. 1081.
Rail clamp, Guard-. N. O. Goldsmith and J. Metzger. No. 997,991; July 18; Sp. p. 3010; Gaz. vol. 168; p. 550.
Rail-clamping chair. J. W. Jones. No. 998,010; July 18; Sp. p. 3056; Gaz. vol. 168; p. 557.
Rail cleaner, Track-. F. W. Hild. No. 998,773; July 25; Sp. p. 4759; Gaz. vol. 168; p. 860.
Rail connection. G. A. Morris. No. 1,007,724; Nov. 7; Sp. p. 157; Gaz. vol. 172; p. 26.
Rail coupling and chair, Combined. J. Ellis. No. 999,103; July 25; Sp. p. 5479; Gaz. vol. 168; p. 975.
Rail covering, Third-. F. H. Lindsley. No. 1,010,504; Dec. 5; Sp. p. 242; Gaz. vol. 173; p. 38.
Rail device. L. Hurshman. No. 995,065; June 13; Sp. p. 2144; Gaz. vol. 167; p. 372.
Rail-end clamp. A. H. Shoemaker. No. 994,038; May 30; Sp. p. 6861; Gaz. vol. 166; p. 1232.
Rail-fastener. A. Smathers. No. 981,487; Jan. 10; Sp. p. 2981; Gaz. vol. 162; p. 484.
Rail-fastener. W. H. Failor. No. 985,254; Feb. 28; Sp. p. 4326; Gaz. vol. 163; p. 782.
Rail-fastener. W. J. McDermott. No. 995,075; June 13; Sp. p. 2160; Gaz. vol. 167; p. 375.
Rail-fastener. A. J. Alsopiedy. No. 999,082; July 25; Sp. p. 5444; Gaz. vol. 168; p. 968.
Rail-fastener. J. H. Killinger. No. 1,003,113; Sept. 12; Sp. p. 2053; Gaz. vol. 170; p. 353.
Rail-fastener. W. Vandercook, Jr. No. 1,003,306; Sept. 12; Sp. p. 2457; Gaz. vol. 170; p. 423.
Rail-fastener. T. Booth. No. 1,006,054; Oct. 17; Sp. p. 3250; Gaz. vol. 171; p. 582.
Rail-fastener. J. J. Pierce, Jr. No. 1,010,452; Dec. 5; Sp. p. 95; Gaz. vol. 173; p. 19.
Rail-fastener, Adjustable. J. B. Pope. No. 1,007,796; Nov. 7; Sp. p. 336; Gaz. vol. 172; p. 52.
Rail-fastener and combined metal and cement tie. D. R. Will. No. 1,005,390; Oct. 10; Sp. p. 1783; Gaz. vol. 171; p. 318.
Rail-fastener, Anticreeping. W. F. Armstrong. No. 986,121; Mar. 7; Sp. p. 768; Gaz. vol. 164; p. 124.
Rail-fastening. C. B. Silk. No. 990,670; Apr. 25; Sp. p. 5198; Gaz. vol. 165; p. 897.
Rail-fastening. W. S. Barrett and H. C. Bostian. No. 992,701; May 16; Sp. p. 4000; Gaz. vol. 166; p. 714.
Rail-fastening. T. Richards. No. 994,872; June 13; Sp. p. 1714; Gaz. vol. 167; p. 306.
Rail-fastening. J. A. Moorhead and J. Patterson. No. 1,001,879; Aug. 29; Sp. p. 5738; Gaz. vol. 169; p. 1048.
Rail-fastening device. J. V. Bergen. No. 986,348; Mar. 7; Sp. p. 1235; Gaz. vol. 164; p. 199.
Rail-fastening device. H. E. Zimmerman. No. 1,009,007; Nov. 14; Sp. p. 3078; Gaz. vol. 172; p. 511.
Rail-fastening device. J. M. Rafter. No. 1,011,245; Dec. 12; Sp. p. 1911; Gaz. vol. 173; p. 329.
Rail-fastening means. A. B. Moon and W. E. Laurence. No. 995,891; June 20; Sp. p. 3937; Gaz. vol. 167; p. 683.
Rail, Guard-. F. B. Bradley. No. 987,611; Mar. 21; Sp. p. 3881; Gaz. vol. 164; p. 691.
Rail, Guard-. T. Carmichael. (Reissue.) No. 13,218; Mar. 21; Sp. p. 4060; Gaz. vol. 164; p. 719.
Rail, Guard-. J. Y. McClintock. No. 1,012,397; Dec. 19; Sp. p. 4464; Gaz. vol. 173; p. 765.
Rail-guard. J. J. Lynch. No. 992,968; May 23; Sp. p. 4599; Gaz. vol. 166; p. 839.
Rail-handling apparatus. J. Reinehr. No. 992,594; May 16; Sp. p. 3814; Gaz. vol. 166; p. 679.
Rail-handling device. B. Harper. No. 991,980; May 9; Sp. p. 2446; Gaz. vol. 166; p. 434.
Rail heating and discharging method and apparatus. W. H. Morgan. No. 1,006,868; Oct. 24; Sp. p. 5101; Gaz. vol. 171; p. 899.
Rail-joint. J. W. Fey. No. 980,233; Jan. 3; Sp. p. 109; Gaz. vol. 162; p. 21.
Rail-joint. J. J. Kohn. No. 980,287; Jan. 3; Sp. p. 203; Gaz. vol. 162; p. 40.
Rail-joint. M. J. Kutsch. No. 980,291; Jan. 3; Sp. p. 212; Gaz. vol. 162; p. 41.
Rail-joint. J. Wolfe. No. 980,383; Jan. 3; Sp. p. 419; Gaz. vol. 162; p. 73.
Rail-joint. W. A. Miller. No. 980,661; Jan. 3; Sp. p. 1060; Gaz. vol. 162; p. 168.
Rail-joint. A. F. Coyne and W. Barnhart. No. 980,892; Jan. 3; Sp. p. 1555; Gaz. vol. 162; p. 246.
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Rail-joint. J. Hudson. No. 982,821; Jan. 31; Sp. p. 5808; Gaz. vol. 162; p. 1022.
Rail-joint. J. Wolfe. No. 983,591; Feb. 7; Sp. p. 732; Gaz. vol. 163; p. 114.
Rail-joint. J. M. Jorgensen. No. 983,724; Feb. 7; Sp. p. 1003; Gaz. vol. 163; p. 160.
Rail-joint. E. Gieselmann. No. 983,890; Feb. 14; Sp. p. 1383; Gaz. vol. 163; p. 248.
Rail-joint. C. C. Ross. No. 984,492; Feb. 14; Sp. p. 2662; Gaz. vol. 163; p. 448.
Rail-joint. W. J. Diehl. No. 984,546; Feb. 21; Sp. p. 2815; Gaz. vol. 163; p. 503.
Rail-joint. W. Jurgens. No. 984,924; Feb. 21; Sp. p. 3596; Gaz. vol. 163; p. 634.
Rail-joint. G. B. Anderson. No. 985,096; Feb. 21; Sp. p. 3923; Gaz. vol. 163; p. 693.
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Rail-joint. W. P. and S. G. Thomson. No. 985,858; Mar. 7; Sp. p. 207; Gaz. vol. 164; p. 34.
Rail-joint. W. Barnett. No. 985,882; Mar. 7; Sp. p. 259; Gaz. vol. 164; p. 43.
Rail-joint. G. Asboth and L. Horwáth. No. 986,342; Mar. 7; Sp. p. 1218; Gaz. vol. 164; p. 197.
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Rail-joint. A. C. Jorns. No. 987,373; Mar. 21; Sp. p. 3410; Gaz. vol. 164; p. 611.
Rail-joint. L. H. Stamm. No. 988,041; Mar. 28; Sp. p. 4898; Gaz. vol. 164; p. 869.
Rail-joint. C. James. No. 989,014; Apr. 11; Sp. p. 1516; Gaz. vol. 165; p. 266.
Rail-joint. C. D. Wright. No. 989,317; Apr. 11; Sp. p. 2178; Gaz. vol. 165; p. 371.
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Rail-joint. E. Wadsack. No. 989,454; Apr. 11; Sp. p. 2450; Gaz. vol. 165; p. 414.
Rail-joint. G. H. Burge. No. 989,565; Apr. 18; Sp. p. 2728; Gaz. vol. 165; p. 487.
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Rail-joint. T. Hunter. No. 990,136; Apr. 18; Sp. p. 3934; Gaz. vol. 165; p. 679.
Rail-joint. W. H. Jordan. No. 990,657; Apr. 25; Sp. p. 5150; Gaz. vol. 165; p. 893.
Rail-joint. T. W. Williams. No. 990,691; Apr. 25; Sp. p. 5236; Gaz. vol. 165; p. 904.
Rail-joint. W. Grzybowski. No. 990,729; Apr. 25; Sp. p. 5314; Gaz. vol. 165; p. 916.
Rail-joint. H. Brown. No. 990,835; May 2; Sp. p. 17; Gaz. vol. 166; p. 5.
Rail-joint. J. Hamza. No. 990,981; May 2; Sp. p. 324; Gaz. vol. 166; p. 56.
Rail-joint. F. Poole. No. 991,365; May 2; Sp. p. 1154; Gaz. vol. 166; p. 193.
Rail-joint. A. L. Stanford. No. 991,382; May 2; Sp. p. 1188; Gaz. vol. 166; p. 198.
Rail-joint. C. B. Ferguson. No. 991,436; May 2; Sp. p. 1297; Gaz. vol. 166; p. 216.
Rail-joint. C. J. Heaguey. No. 992,558; May 16; Sp. p. 3725; Gaz. vol. 166; p. 666.
Rail-joint. F. S. Roberts. No. 992,805; May 23; Sp. p. 4221; Gaz. vol. 166; p. 779.
Rail-joint. C. Detwiler. No. 993,040; May 23; Sp. p. 4743; Gaz. vol. 166; p. 863.
Rail-joint. R. T. Gunn. No. 993,058; May 23; Sp. p. 4781; Gaz. vol. 166; p. 869.
Rail-joint. J. Cusick. No. 993,153; May 23; Sp. p. 4983; Gaz. vol. 166; p. 901.
Rail-joint. J. M. Johnson. No. 993,830; May 30; Sp. p. 6461; Gaz. vol. 166; p. 1163.
Rail-joint. R. Zeppenfeld. No. 993,936; May 30; Sp. p. 6648; Gaz. vol. 166; p. 1197.
Rail-joint. R. T. Berry. No. 993,949; May 30; Sp. p. 6680; Gaz. vol. 166; p. 1202.
Rail-joint. J. Pillig. No. 994,274; June 6; Sp. p. 358; Gaz. vol. 167; p. 61.
Rail-joint. J. W. Stephenson. No. 995,196; June 13; Sp. p. 2383; Gaz. vol. 167; p. 413.
Rail-joint. A. T. Eickmeyer. No. 995,850; June 20; Sp. p. 3850; Gaz. vol. 167; p. 669.
Rail-joint. W. T. Reitmeyer and P. J. Kelly. No. 996,139; June 27; Sp. p. 4437; Gaz. vol. 167; p. 803.
Rail-joint. G. U. Davis. No. 996,465; June 27; Sp. p. 5218; Gaz. vol. 167; p. 915.
Rail-joint. W. D. Forsyth. No. 996,633; July 4; Sp. p. 82; Gaz. vol. 168; p. 15.
Rail-joint. F. P. Hunkele. No. 997,132; July 4; Sp. p. 1125; Gaz. vol. 168; p. 182.
Rail-joint. J. Miner. No. 997,404; July 11; Sp. p. 1682; Gaz. vol. 168; p. 306.
Rail-joint. G. E. Pellissier. No. 997,697; July 11; Sp. p. 2287; Gaz. vol. 168; p. 405.
Rail-joint. A. Munchausen. No. 997,932; July 11; Sp. p. 2857; Gaz. vol. 168; p. 488.
Rail-joint. G. C. Hager. No. 997,993; July 18; Sp. p. 3014; Gaz. vol. 168; p. 551.
Rail-joint. S. H. McCarty and J. T. Hindman. No. 998,024; July 18; Sp. p. 3085; Gaz. vol. 168; p. 562.
Rail-joint. J. J. Souder. No. 998,132; July 18; Sp. p. 3332; Gaz. vol. 168; p. 600.
Rail-joint. R. L. Bender. No. 998,832; July 25; Sp. p. 4886; Gaz. vol. 168; p. 879.
Rail-joint. S. Ledgett. No. 999,237; Aug. 1; Sp. p. 86; Gaz. vol. 169; p. 17.
Rail-joint. C. G. Burress. No. 1,000,233; Aug. 8; Sp. p. 2159; Gaz. vol. 169; p. 384.
Rail-joint. E. B. Matejke. No. 1,000,832; Aug. 15; Sp. p. 3484; Gaz. vol. 169; p. 626.
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Rail-joint. P. M. Kotlarich. No. 1,002,159; Aug. 29; Sp. p. 6288; Gaz. vol. 169; p. 1137.
Rail-joint. J. H. Sale. No. 1,002,183; Aug. 29; Sp. p. 6339; Gaz. vol. 169; p. 1145.
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Rail-joint. J. W. Scott. No. 1,003,376; Sept. 12; Sp. p. 2594; Gaz. vol. 170; p. 446.
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Rail-joint. F. C. Botwright. No. 1,003,582; Sept. 19; Sp. p. 3053; Gaz. vol. 170; p. 550.
Rail-joint. W. B. Mims. No. 1,003,938; Sept. 19; Sp. p. 3832; Gaz. vol. 170; p. 673.
Rail-joint. J. N. Papendry. No. 1,004,067; Sept. 26; Sp. p. 4150; Gaz. vol. 170; p. 745.
Rail-joint. S. D. Taylor. No. 1,004,217; Sept. 26; Sp. p. 4506; Gaz. vol. 170; p. 797.
Rail-joint. W. N. R. Copley. No. 1,004,373; Sept. 26; Sp. p. 4809; Gaz. vol. 170; p. 849.
Rail-joint. S. Tice. No. 1,004,941; Oct. 3; Sp. p. 848; Gaz. vol. 171; p. 138.
Rail-joint. J. W. Clark, Jr. No. 1,005,414; Oct. 10; Sp. p. 1833; Gaz. vol. 171; p. 326.
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Rail-joint. W. P. and S. G. Thomson. No. 1,005,583; Oct. 10; Sp. p. 2242; Gaz. vol. 171; p. 386.
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Rail-joint. J. J. Thelen. No. 1,005,670; Oct. 10; Sp. p. 2425; Gaz. vol. 171; p. 417.
Rail-joint. E. Wadsack. No. 1,007,257; Oct. 31; Sp. p. 5964; Gaz. vol. 171; p. 1088.
Rail-joint. M. Boyer. No. 1,007,426; Oct. 31; Sp. p. 6313; Gaz. vol. 171; p. 1148.
Rail-joint. E. B. Hutton. No. 1,007,573; Oct. 31; Sp. p. 6645; Gaz. vol. 171; p. 1198.
Rail-joint. J. A. Kimball. No. 1,008,038; Nov. 7; Sp. p. 846; Gaz. vol. 172; p. 135.
Rail-joint. W. M. Sample. No. 1,008,072; Nov. 7; Sp. p. 916; Gaz. vol. 172; p. 147.
Rail-joint. E. F. Miller. No. 1,008,179; Nov. 7; Sp. p. 1126; Gaz. vol. 172; p. 186.
Rail-joint. A. F. Hall. No. 1,008,259; Nov. 7; Sp. p. 1314; Gaz. vol. 172; p. 215.
Rail-joint. M. Connolly. No. 1,008,786; Nov. 14; Sp. p. 2623; Gaz. vol. 172; p. 439.
Rail-joint. M. Moses. No. 1,009,087; Nov. 21; Sp. p. 3257; Gaz. vol. 172; p. 576.
Rail-joint. C. L. Kristofferson. No. 1,009,250; Nov. 21; Sp. p. 3630; Gaz. vol. 172; p. 633.
Rail-joint. S. J. Rice. No. 1,009,575; Nov. 21; Sp. p. 4348; Gaz. vol. 172; p. 748.
Rail-joint. N. Signorelli. No. 1,009,590; Nov. 21; Sp. p. 4368; Gaz. vol. 172; p. 753.
Rail-joint. E. F. Schermerhorn. No. 1,009,933; Nov. 28; Sp. p. 5052; Gaz. vol. 172; p. 912.
Rail-joint. S. Fabian. No. 1,010,132; Nov. 28; Sp. p. 5477; Gaz. vol. 172; p. 981.
Rail-joint. A. Busse. No. 1,010,411; Dec. 5; Sp. p. 12; Gaz. vol. 173; p. 4.
Rail-joint. J. Czech and W. Bednarczuk. No. 1,010,867; Dec. 5; Sp. p. 1050; Gaz. vol. 173; p. 164.
Rail-joint. A. Kun. No. 1,010,923; Dec. 5; Sp. p. 1168; Gaz. vol. 173; p. 183.
Rail-joint. W. P. and S. G. Thomson. No. 1,011,095; Dec. 5; Sp. p. 1529; Gaz. vol. 173; p. 242.
Rail-joint. H. J. Reinhardt. No. 1,011,371; Dec. 12; Sp. p. 2196; Gaz. vol. 173; p. 374.
Rail-joint. O. L. Roberts. No. 1,011,492; Dec. 12; Sp. p. 2458; Gaz. vol. 173; p. 419.
Rail-joint. D. Terrel. No. 1,011,670; Dec. 12; Sp. p. 2888; Gaz. vol. 173; p. 482.
Rail-joint. H. Souden and W. S. Leahy. No. 1,012,023; Dec. 19; Sp. p. 3669; Gaz. vol. 173; p. 638.
Rail-joint. D. V. Buck. No. 1,012,807; Dec. 26; Sp. p. 5350; Gaz. vol. 173; p. 952.
Rail-joint. F. B. Elliott. No. 1,013,002; Dec. 26; Sp. p. 5816; Gaz. vol. 173; p. 1017.
Rail joint and chair. D. W. Cameron. No. 1,006,719; Oct. 24; Sp. p. 4742; Gaz. vol. 171; p. 845.
Rail joint and fastener. G. E. Martin. No. 985,688; Feb. 28; Sp. p. 5282; Gaz. vol. 163; p. 930.
Rail joint and fastener. J. T. Ashton. No. 986,891; Mar. 14; Sp. p. 2422; Gaz. vol. 164; p. 418.
Rail-joint and means for securing rails to metal ties. W. H. Morgan. No. 1,010,674; Dec. 5; Sp. p. 599; Gaz. vol. 173; p. 96.
Rail-joint and rail-fastener. S. A. Briney. No. 986,899; Mar. 14; Sp. p. 2433; Gaz. vol. 164; p. 420.
Rail-joint and spike-protector, Combined. W. A. Walker. No. 985,867; Mar. 7; Sp. p. 228; Gaz. vol. 164; p. 37.
Rail-joint and tie-plate, Combined. G. A. Hassel. No. 993,598; May 30; Sp. p. 5940; Gaz. vol. 166; p. 1082.
Rail-joint, Automatic. J. Wolfe. No. 989,683; Apr. 18; Sp. p. 2985; Gaz. vol. 165; p. 526.
Rail-joint chair. W. H. Round. No. 986,863; Mar. 14; Sp. p. 2351; Gaz. vol. 164; p. 408.
Rail-joint clamp, Continuous-. G. A. Stark and G. Gates. No. 991,462; May 2; Sp. p. 1356; Gaz. vol. 166; p. 225.
Rail-joint, Compromise. J. H. Allen. No. 988,238; Mar. 28; Sp. p. 5265; Gaz. vol. 164; p. 934.
Rail-joint connector and support. J. T. Butler. No. 1,007,061; Oct. 31; Sp. p. 5510; Gaz. vol. 171; p. 1017.
Rail joint, Continuous-. J. B. Latimer. No. 1,012,141; Dec. 19; Sp. p. 3930; Gaz. vol. 173; p. 680.
Rail-joint, Insulated. B. Wolhaupter. No. 985,092; Feb. 21; Sp. p. 3917; Gaz. vol. 163; p. 692.
Rail-joint, Insulated. W. S. Ogilvy and R. W. Smith. No. 988,653; Apr. 4; Sp. p. 781; Gaz. vol. 165; p. 125.
Rail-joint, Insulated. W. L. De Remer. No. 991,488; May 9; Sp. p. 1412; Gaz. vol. 166; p. 266.
Rail-joint, Insulated. B. G. Braine. No. 995,839; June 20; Sp. p. 3825; Gaz. vol. 167; p. 665.
Rail-joint, Insulated. C. J. Buck. No. 995,842; June 20; Sp. p. 3832; Gaz. vol. 167; p. 666.
Rail-joint, Insulated. P. G. Ten Eyck. No. 997,475; July 11; Sp. p. 1813; Gaz. vol. 168; p. 328.
Rail-joint, Insulated. E. F. Schermerhorn. No. 1,006,597; Oct. 24; Sp. p. 4518; Gaz. vol. 171; p. 805.
Rail-joint, Insulated. J. H. Brothers. No. 1,010,850; Dec. 5; Sp. p. 1011; Gaz. vol. 173; p. 157.
Rail-joint, Insulated. C. H. Ewing. No. 1,012,068; Dec. 19; Sp. p. 3769; Gaz. vol. 173; p. 653.
Rail-joint, Insulated. C. H. Ewing. No. 1,012,069; Dec. 19; Sp. p. 3772; Gaz. vol. 173; p. 653.
Rail-joint, Laminated. J. A. Bodkin. No. 1,005,146; Oct. 10; Sp. p. 1220; Gaz. vol. 171; p. 228.
Rail-joint lock, Automatic. H. T. Hughes. No. 985,810; Mar. 7; Sp. p. 84; Gaz. vol. 164; p. 18.
Rail-joint, Rolled step. B. G. Braine. No. 1,007,914; Nov. 7; Sp. p. 612; Gaz. vol. 172; p. 94.
Rail-joint splice-plate. A. P. W. Nethercot. No. 983,638; Feb. 7; Sp. p. 815; Gaz. vol. 163; p. 130.
Rail-joint support. J. M. Loffland. No. 995,360; June 13; Sp. p. 2751; Gaz. vol. 167; p. 469.
Rail-joint support. R. M. Griffith. No. 999,159; July 25; Sp. p. 5575; Gaz. vol. 168; p. 991.
Rail-joint supporter. P. Price. No. 991,366; May 2; Sp. p. 1155; Gaz. vol. 166; p. 193.
Rail-joints, Fiber fastening for insulated. B. G. Braine. No. 996,204; June 27; Sp. p. 4630; Gaz. vol. 167; p. 826.
Rail-joints, Reinforced angle-bar for. B. Wolhaupter. No. 1,010,474; Dec. 5; Sp. p. 155; Gaz. vol. 173; p. 28.
Rail-joints, Splice-bar for. W. P. and S. G. Thomson. No. 986,326; Mar. 7; Sp. p. 1183; Gaz. vol. 164; p. 192.
Rail-lubricator. F. S. Freeman and F. L. Doke. No. 1,004,006; Sept. 26; Sp. p. 3998; Gaz. vol. 170; p. 723.
Rail lubricator, Guide-. B. W. Givens. No. 996,077; June 27; Sp. p. 4312; Gaz. vol. 167; p. 782.
Rail plate and clamp. W. A. Burger and H. W. Meier. No. 1,003,172; Sept. 12; Sp. p. 2180; Gaz. vol. 170; p. 374.
Rail-plate and wheel-guard. G. H. Langton. No. 994,592; June 6; Sp. p. 1016; Gaz. vol. 167; p. 169.
Rail-sander, Pneumatic. W. B. Shull. No. 990,016; Apr. 18; Sp. p. 3698; Gaz. vol. 165; p. 641.
Rail-scraper. M. Wells. No. 994,964; June 13; Sp. p. 1921; Gaz. vol. 167; p. 337.
Rail-securing clamps, Making. W. H. Morgan. No. 1,009,775; Nov. 28; Sp. p. 4751; Gaz. vol. 172; p. 860.
Rail-securing means. M. Kelp. No. 1,001,281; Aug. 22; Sp. p. 4468; Gaz. vol. 169; p. 812.
Rail-shoe. A. M. Carlson. No. 1,002,498; Sept. 5; Sp. p. 713; Gaz. vol. 170; p. 105.
Rail-spacing device. J. W. Kendrick. No. 1,001,860; Aug. 29; Sp. p. 5686; Gaz. vol. 169; p. 1041.
Rail-splice. J. Thomas. No. 982,900; Jan. 31; Sp. p. 5983; Gaz. vol. 162; p. 1049.
Rail-splice. G. E. Thackray. No. 1,006,604; Oct. 24; Sp. p. 4531; Gaz. vol. 171; p. 808.
Rail-splice. S. Belanger. No. 1,006,899; Oct. 24; Sp. p. 5182; Gaz. vol. 171; p. 910.
Rail-splice. A. Morrison. No. 1,008,427; Nov. 14; Sp. p. 1800; Gaz. vol. 172; p. 313.
Rail splice-bar. W. P. and S. G. Thomson. No. 1,009,026; Nov. 14; Sp. p. 3119; Gaz. vol. 172; p. 519.
Rail-stay. H. H. Sponenburg. No. 998,589; July 18; Sp. p. 4315; Gaz. vol. 168; p. 762.
Rail-stay. H. H. Sponenburg. No. 998,590; July 18; Sp. p. 4317; Gaz. vol. 168; p. 763.
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Rail-stay. L. Hanson. No. 1,010,423; Dec. 5; Sp. p. 40; Gaz. vol. 173; p. 9.
Rail-stop. G. W. Rink. No. 998,638; July 25; Sp. p. 4437; Gaz. vol. 168; p. 812.
Rail-straightener. J. Contos. No. 982,254; Jan. 24; Sp. p. 4594; Gaz. vol. 162; p. 798.

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Rail-support. E. F. Davis. No. 1,000,498; Aug. 15; Sp. p. 2744; Gaz. vol. 169; p. 508.
Rail-support. T. E. Vaughn. (Reissue.) No. 13,306; Oct. 31; Sp. p. 6840; Gaz. vol. 171; p. 1231.
Rail-support on ties. T. Donahue. No. 996,470; June 27; Sp. p. 5225; Gaz. vol. 167; p. 916.
Rail support, Third-. W. B. Potter. No. 1,008,560; Nov. 14; Sp. p. 2109; Gaz. vol. 172; p. 360.
Rail-supporting tie, Track-. A. Williamson. No. 986,111; Mar. 7; Sp. p. 751; Gaz. vol. 164; p. 121.
Rail, Third. C. A. Bluhm. No. 985,388; Feb. 28; Sp. p. 4608; Gaz. vol. 163; p. 826.
Rail-tie. B. Shires. No. 991,380; May 2; Sp. p. 1185; Gaz. vol. 166; p. 197.
Rail-tie. J. E. Bliss. No. 991,474; May 9; Sp. p. 1381; Gaz. vol. 166; p. 261.
Rail-tie. E. F. Spross and P. R. Woodworth. No. 992,283; May 16; Sp. p. 3116; Gaz. vol. 166; p. 568.
Rail-tie. T. F. May. No. 992,789; May 23; Sp. p. 4189; Gaz. vol. 166; p. 774.
Rail tie and brace. J. Chambers, Jr. No. 1,000,780; Aug. 15; Sp. p. 3387; Gaz. vol. 169; p. 609.
Rail tie and fastener. W. H. Thomas and R. C. Thompson. No. 988,408; Apr. 4; Sp. p. 257; Gaz. vol. 165; p. 41.
Rail tie and fastener. J. E. Crawford and B. P. Hardy. No. 988,627; Apr. 4; Sp. p. 731; Gaz. vol. 165; p. 116.
Rail tie and fastener. G. A. Belknap. No. 996,306; June 27; Sp. p. 4866; Gaz. vol. 167; p. 858.
Rail tie and fastener. A. Dillon. No. 1,010,601; Dec. 5; Sp. p. 456; Gaz. vol. 173; p. 71.
Rail tie and fastener. J. Katrina. No. 1,012,205; Dec. 19; Sp. p. 4082; Gaz. vol. 173; p. 700.
Rail tie and fastening. A. Valkelberg. No. 1,006,319; Oct. 17; Sp. p. 3867; Gaz. vol. 171; p. 676.
Rail-tie and means for fastening rails thereto. S. B. Schory. No. 1,010,079; Nov. 28; Sp. p. 5375; Gaz. vol. 172; p. 963.
Rail-tie, Composite. W. J. Hohnhorst. No. 992,130; May 9; Sp. p. 2736; Gaz. vol. 166; p. 484.
Rail tie-plate and chair, Guard-. J. W. Stephenson. No. 984,310; Feb. 14; Sp. p. 2304; Gaz. vol. 163; p. 390.
Rails, Anticreeper for. F. Seaberg. No. 993,889; May 30; Sp. p. 6561; Gaz. vol. 166; p. 1182.
Rails, Bonding. W. B. Cleveland. No. 994,908; June 13; Sp. p. 1810; Gaz. vol. 167; p. 318.
Rails, &c., Means for forming parallel faces on the ends of. H. Schultz. No. 981,695; Jan. 17; Sp. p. 3405; Gaz. vol. 162; p. 575.
Rails, Rerolling. J. E. York. No. 1,001,115; Aug. 22; Sp. p. 4152; Gaz. vol. 169; p. 760.
Rails, Supporting and protecting device for third. G. S. Inman. No. 1,000,679; Aug. 15; Sp. p. 3161; Gaz. vol. 169; p. 572.
Rails, Tie-rod for track-. S. Bzsan. No. 1,003,330; Sept. 12; Sp. p. 2509; Gaz. vol. 170; p. 432.
Railway. T. J. Sheehan. No. 988,901; Apr. 4; Sp. p. 1276; Gaz. vol. 165; p. 205.
Railway. S. Jobe. No. 997,196; July 4; Sp. p. 1256; Gaz. vol. 168; p. 204.
Railway air-coupling. J. Warrington. No. 997,875; July 11; Sp. p. 2725; Gaz. vol. 168; p. 467.
Railway appliance. W. J. McDermott. No. 995,272; June 13; Sp. p. 2537; Gaz. vol. 167; p. 439.
Railway-bed and means for securing rails thereon. A. T. Barry. No. 1,004,727; Oct. 3; Sp. p. 391; Gaz. vol. 171; p. 65.
Railway block-signal system. L. Johnson. No. 990,486; Apr. 25; Sp. p. 4758; Gaz. vol. 165; p. 835.
Railway-bolt. J. F. Nicols. No. 980,823; Jan. 3; Sp. p. 1383; Gaz. vol. 162; p. 221.
Railway bond-wires. J. B. Richardson and T. W. Meich. No. 981,309; Jan. 10; Sp. p. 2602; Gaz. vol. 162; p. 423.
Railway-brake. S. Sheldon. No. 994,340; June 6; Sp. p. 489; Gaz. vol. 167; p. 84.
Railway brake-beam. S. A. Crone. No. 981,619; Jan. 17; Sp. p. 3246; Gaz. vol. 162; p. 551.
Railway brake-beam. S. A. Crone. No. 981,620; Jan. 17; Sp. p. 3249; Gaz. vol. 162; p. 552.
Railway brake-beam. S. A. Crone. No. 1,007,273; Oct. 31; Sp. p. 5996; Gaz. vol. 171; p. 1094.
Railway buffer construction. F. Rawie. No. 991,089; May 2; Sp. p. 542; Gaz. vol. 166; p. 94.
Railway bumping-post. N. P. Phillips. No. 998,981; July 25; Sp. p. 5238; Gaz. vol. 168; p. 933.
Railway cattle-guard W. Gebhart. No. 1,009,404; Nov. 21; Sp. p. 3992; Gaz. vol. 172; p. 690.
Railway cattle-guard. J. W. Comer. No. 1,011,033; Dec. 5; Sp. p. 1381; Gaz. vol. 173; p. 220.
Railway cattle-guard causeway. S. J. Billington and J. A. Stephenson. No. 999,741; Aug. 8; Sp. p. 1088; Gaz. vol. 169; p. 217.
Railway-chair. S. W. Groah. No. 982,949; Jan. 31; Sp. p. 6099; Gaz. vol. 162; p. 1065.
Railway chair and plate. M. Shelton. No. 987,498; Mar. 21; Sp. p. 3667; Gaz. vol. 164; p. 654.
Railway-clamp. R. C. Lukens. No. 998,972; July 25; Sp. p. 5220; Gaz. vol. 168; p. 930.
Railway construction, Elevated-. B. C. Dozier. No. 1,009,489; Nov. 21; Sp. p. 4173; Gaz. vol. 172; p. 719.
Railway-coupling. W. J. Price. No. 1,008,062; Nov. 7; Sp. p. 894; Gaz. vol. 172; p. 144.
Railway cross-tie. A. B. Wetherell. No. 985,483; Feb. 28; Sp. p. 4852; Gaz. vol. 163; p. 861.
Railway cross-tie. R. Axman. No. 988,752; Apr. 4; Sp. p. 997; Gaz. vol. 165; p. 158.
Railway cross-tie. J. G. Robinson. No. 994,034; May 30; Sp. p. 6855; Gaz. vol. 166; p. 1231.
Railway cross-tie. C. E. Patmor. No. 998,387; July 18; Sp. p. 3913; Gaz. vol. 168; p. 693.
Railway cross-tie. S. A. Fassett and G. McCullough. No. 999,766; Aug. 8; Sp. p. 1134; Gaz. vol. 169; p. 224.
Railway cross-tie. J. W. Richardson. No. 1,001,165; Aug. 22; Sp. p. 4232; Gaz. vol. 169; p. 774.
Railway cross-tie. J. M. Lively. No. 1,004,798; Oct. 3; Sp. p. 534; Gaz. vol. 171; p. 88.
Railway cross-tie. V. L. Miller. No. 1,006,256; Oct. 17; Sp. p. 3727; Gaz. vol. 171; p. 655.
Railway cross-ties, Combined rail plate, brace, binder, and protector for. J. F. Body. No. 988,621; Apr. 4; Sp. p. 716; Gaz. vol. 165; p. 114.
Railway-crossing. S. G. Davis. No. 983,982; Feb. 14; Sp. p. 1593; Gaz. vol. 163; p. 277.
Railway-crossing. J. T. Walston. No. 985,646; Feb. 28; Sp. p. 5179; Gaz. vol. 163; p. 916.
Railway-crossing. J. H. Brumback. No. 986,356; Mar. 7; Sp. p. 1256; Gaz. vol. 164; p. 203.
Railway-crossing. J. A. Walker. No. 987,779; Mar. 28; Sp. p. 4269; Gaz. vol. 164; p. 778.
Railway-crossing. H. A. Emrick. No. 988,867; Apr. 4; Sp. p. 1216; Gaz. vol. 165; p. 194.
Railway-crossing. J. C. Bradshaw. No. 989,759; Apr. 18; Sp. p. 3138; Gaz. vol. 165; p. 552.
Railway-crossing. W. A. Blankinship and W. Copeland. No. 990,799; Apr. 25; Sp. p. 5464; Gaz. vol. 165; p. 941.
Railway-crossing. R. H. Pilcher. No. 994,689; June 6; Sp. p. 1254; Gaz. vol. 167; p. 203.
Railway-crossing. W. W. Jones and J. T. Morgan. No. 997,392; July 11; Sp. p. 1663; Gaz. vol. 168; p. 301.
Railway-crossing. H. F. Roach. No. 999,400; Aug. 1; Sp. p. 412; Gaz. vol. 169; p. 73.
Railway-crossing. J. B. Dunlap. No. 1,000,590; Aug. 15; Sp. p. 2966; Gaz. vol. 169; p. 543.
Railway-crossing. J. A. Snodgrass. No. 1,001,699; Aug. 29; Sp. p. 5341; Gaz. vol. 169; p. 985.
Railway-crossing. A. Hollinger. No. 1,004,261; Sept. 26; Sp. p. 4594; Gaz. vol. 170; p. 812.
Railway-crossing. I. L. Earnheart. No. 1,007,024; Oct. 24; Sp. p. 5420; Gaz. vol. 171; p. 951.
Railway-crossing automatic gate. P. Castelli. No. 1,009,222; Nov. 21; Sp. p. 3572; Gaz. vol. 172; p. 624.
Railway-crossing gate, Automatic. W. Noville. No. 1,009,927; Nov. 28; Sp. p. 5042; Gaz. vol. 172; p. 910.
Railway-crossing guard. E. A. Steininger. No. 993,729; May 30; Sp. p. 6246; Gaz. vol. 166; p. 1128.
Railway-crossing, Noiseless. G. Guilbault. No. 1,002,679; Sept. 5; Sp. p. 1099; Gaz. vol. 170; p. 165.
Railway-crossing signal. P. J. Russell. No. 995,910; June 20; Sp. p. 3969; Gaz. vol. 167; p. 389.
Railway danger-signal. J. J. Flynn. No. 999,443; Aug. 1; Sp. p. 492; Gaz. vol. 169; p. 86.
Railway draft device. J. C. Hartman. No. 995,426; June 13; Sp. p. 2911; Gaz. vol. 167; p. 491.
Railway, Electric. R. J. Dearborn. No. 999,754; Aug. 8; Sp. p. 1115; Gaz. vol. 169; p. 221.
Railway electric signal. T. J. Empfield. No. 1,001,828; Aug. 29; Sp. p. 5621; Gaz. vol. 169; p. 1030.
Railway, Elevated. R. Rosada. No. 1,003,950; Sept. 19; Sp. p. 3858; Gaz. vol. 170; p. 677.
Railway, Elevated cable-. C. Lewellen. No. 993,259; May 23; Sp. p. 5201; Gaz. vol. 166; p. 933.
Railway, Endless pleasure-. A. Stott. No. 1,000,306; Aug. 8; Sp. p. 2305; Gaz. vol. 169; p. 409.
Railway fastening device. J. W. Blower. No. 999,742; Aug. 8; Sp. p. 1090; Gaz. vol. 169; p. 217.
Railway fish-plate. J. G. Shudera. No. 989,196; Apr. 11; Sp. p. 1891; Gaz. vol. 165; p. 329.
Railway-frog. J. G. Sullivan. No. 981,495; Jan. 10; Sp. p. 2992; Gaz. vol. 162; p. 487.
Railway-frog. J. Hoskyn and J. H. Biddemen. No. 982,272; Jan. 24; Sp. p. 4634; Gaz. vol. 162; p. 804.
Railway-frog. C. C. Chambers. No. 1,002,964; Sept. 12; Sp. p. 1749; Gaz. vol. 170; p. 303.
Railway-gate. J. Flynn. No. 984,896; Feb. 21; Sp. p. 3538; Gaz. vol. 163; p. 625.
Railway-gate. J. S. and H. J. S. Stover. No. 994,615; June 6; Sp. p. 1065; Gaz. vol. 167; p. 177.
Railway-gate, Automatic. G. Barr. No. 986,428; Mar. 14; Sp. p. 1426; Gaz. vol. 164; p. 258.
Railway-gate. Automatic electric. W. J. Cook. No. 985,977; Mar. 7; Sp. p. 476; Gaz. vol. 164; p. 76.
Railway-gate, Electric. J. A. Nungesser and G. F. Klien. No. 1,002,745; Sept. 5; Sp. p. 1264; Gaz. vol. 170; p. 189.
Railway-gate-operating mechanism. W. A. Queary. No. 980,672; Jan. 3; Sp. p. 1081; Gaz. vol. 162; p. 172.
Railway-joint. R. N. Walton. No. 988,156; Mar. 28; Sp. p. 5114; Gaz. vol. 164; p. 907.
Railway-joint. S. Shirley. No. 995,189; June 13; Sp. p. 2374; Gaz. vol. 167; p. 411.

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Railway-joint. M. H. Looney. No. 995,264; June 13; Sp. p. 2526; Gaz. vol. 167; p. 436.
Railway joint and chair. A. H. Kay. No. 1,005,712; Oct. 10; Sp. p. 2506; Gaz. vol. 171; p. 430.
Railway-joint supporter. R. A. Neatherland. No. 983,752; Feb. 7; Sp. p. 1061; Gaz. vol. 163; p. 169.
Railway metal tie. W. H. Morgan. No. 1,009,776; Nov. 28; Sp. p. 4752; Gaz. vol. 172; p. 860.
Railway, Overhead. J. Ifft. No. 994,519; June 6; Sp. p. 856; Gaz. vol. 167; p. 144.
Railway, Pleasure-. J. W. Bourke. No. 983,119; Jan. 31; Sp. p. 6456; Gaz. vol. 162; p. 1122.
Railway, Pleasure-. A. Aitken. No. 989,472; Apr. 11; Sp. p. 2491; Gaz. vol. 165; p. 422.
Railway, Pleasure-. J. McKay. No. 1,000,742; Aug. 15; Sp. p. 3292; Gaz. vol. 169; p. 595.
Railway-rail. G. P. Smith. No. 987,835; Mar. 28; Sp. p. 4388; Gaz. vol. 164; p. 798.
Railway-rail. W. L. Caven. No. 992,162; May 16; Sp. p. 2829; Gaz. vol. 166; p. 527.
Railway-rail. R. D. Moore. No. 994,185; June 6; Sp. p. 174; Gaz. vol. 167; p. 31.
Railway-rail. F. B. Huckstep and E. P. Hudson. No. 999,453; Aug. 1; Sp. p. 514; Gaz. vol. 169; p. 90.
Railway-rail. W. F. Traves. No. 1,000,461; Aug. 15; Sp. p. 2661; Gaz. vol. 169; p. 494.
Railway-rail. J. S. Fox. No. 1,010,886; Dec. 5; Sp. p. 1082; Gaz. vol. 173; p. 170.
Railway-rail. J. A. Kline. No. 1,011,811; Dec. 12; Sp. p. 3168; Gaz. vol. 173; p. 529.
Railway-rail anchor. B. B. Betts. No. 996,904; July 4; Sp. p. 634; Gaz. vol. 168; p. 103.
Railway-rail and joint. W. Kaylor. No. 1,001,201; Aug. 22; Sp. p. 4316; Gaz. vol. 169; p. 786.
Railway-rail and nut lock. B. Estes. No. 992,647; May 16; Sp. p. 3900; Gaz. vol. 166; p. 695.
Railway rail and tie fastener. J. S. Shoff. No. 1,008,742; Nov. 14; Sp. p. 2519; Gaz. vol. 172; p. 424.
Railway-rail anticreeper. S. C. Stickney. No. 983,092; Jan. 31; Sp. p. 6407; Gaz. vol. 162; p. 1113.
Railway-rail anticreeper. J. J. Quinlan. No. 986,860; Mar. 14; Sp. p. 2342; Gaz. vol. 164; p. 406.
Railway-rail brace. W. A. Keaton and A. Peary. No. 998,011; July 18; Sp. p. 3058; Gaz. vol. 168; p. 557.
Railway-rail-brace spike. F. E. Jonah. No. 1,001,529; Aug. 22; Sp. p. 4962; Gaz. vol. 169; p. 896.
Railway-rail coupling. A. H. Staudt. No. 1,009,936; Nov. 28; Sp. p. 5059; Gaz. vol. 172; p. 913.
Railway-rail fastener. J. J. White. No. 1,001,234; Aug. 22; Sp. p. 4384; Gaz. vol. 169; p. 797.
Railway-rail fastener. L. H. Des Isles. No. 1,006,468; Oct. 24; Sp. p. 4201; Gaz. vol. 171; p. 757.
Railway-rail fastening. A. C. Candland. No. 995,660; June 20; Sp. p. 3422; Gaz. vol. 167; p. 603.
Railway-rail fastening. J. F. A. Ault. No. 1,005,922; Oct. 17; Sp. p. 2974; Gaz. vol. 171; p. 537.
Railway-rail fastening. S. E. Moore. No. 1,008,185; Nov. 7; Sp. p. 1143; Gaz. vol. 172; p. 188.
Railway-rail-fastening device. E. T. Ford and W. H. Maul. No. 984,085; Feb. 14; Sp. p. 1820; Gaz. vol. 163; p. 313.
Railway-rail-fastening mechanism. H. W. Case. No. 997,750; July 11; Sp. p. 2438; Gaz. vol. 168; p. 425.
Railway-rail joint. A. J. Holt. No. 986,005; Mar. 7; Sp. p. 543; Gaz. vol. 164; p. 86.
Railway-rail joint. S. P. Sicard. No. 986,320; Mar. 7; Sp. p. 1173; Gaz. vol. 164; p. 190.
Railway-rail joint. M. O. Carter. No. 992,159; May 16; Sp. p. 2823; Gaz. vol. 166; p. 525.
Railway-rail joint. F. C. Glaze. No. 1,008,637; Nov. 14; Sp. p. 2301; Gaz. vol. 172; p. 389.
Railway-rail joint. E. W. Boyle. No. 1,012,510; Dec. 19; Sp. p. 4678; Gaz. vol. 173; p. 803.
Railway-rail joint. C. Depew. No. 1,012,823; Dec. 26; Sp. p. 5395; Gaz. vol. 173; p. 958.
Railway rail, rail joint, chair, and tie. J. L. Arnold. No. 1,000,225; Aug. 8; Sp. p. 2146; Gaz. vol. 169; p. 382.
Railway-rail, Rolled manganese-steel. W. S. Potter. No. 987,167; Mar. 21; Sp. p. 2973; Gaz. vol. 164; p. 540.
Railway-rail, Sectional. E. A. Babst. No. 1,005,124; Oct. 10; Sp. p. 1178; Gaz. vol. 171; p. 222.
Railway-rail splice-joint and brace. J. W. Clark. No. 983,123; Jan. 31; Sp. p. 6464; Gaz. vol. 162; p. 1123.
Railway-rail stay. G. C. Hicks and M. E. Hagen. No. 981,650; Jan. 17; Sp. p. 3299; Gaz. vol. 162; p. 560.
Railway-rail stay. J. M. Scott. No. 983,939; Feb. 14; Sp. p. 1491; Gaz. vol. 163; p. 263.
Railway-rail stay. P. W. Moore. No. 986,935; Mar. 14; Sp. p. 2492; Gaz. vol. 164; p. 431.
Railway-rail stay. P. W. Moore. No. 999,669; Aug. 1; Sp. p. 931; Gaz. vol. 169; p. 162.
Railway-rail support. W. P. Day. No. 999,966; Aug. 8; Sp. p. 1548; Gaz. vol. 169; p. 292.
Railway-rail support. C. W. Reinoehl and B. L. Weaver. No. 1,005,785; Oct. 10; Sp. p. 2651; Gaz. vol. 171; p. 457.
Railway-rail tie and fastener. W. T. and C. J. Wheeler. No. 990,615; Apr. 25; Sp. p. 5045; Gaz. vol. 165; p. 879.
Railway-rail tie, Metallic. W. W. Andrew. No. 987,101; Mar. 21; Sp. p. 2798; Gaz. vol. 164; p. 515.
Railway-rails and other like bars, Treating steel. J. C. Russell. No. 993,410; May 30; Sp. p. 5527; Gaz. vol. 166; p. 1017.
Railway rails and ties, Joint-fastener for. J. Griffin. No. 1,011,341; Dec. 12; Sp. p. 2139; Gaz. vol. 173; p. 365.
Railway-rails, Anticreeping device for. J. Burke. No. 1,005,410; Oct. 10; Sp. p. 1826; Gaz. vol. 171; p. 325.
Railway-rails, &c., Apparatus for treating steel. J. C. Russell. No. 993,411; May 30; Sp. p. 5531; Gaz. vol. 166; p. 1017.
Railway-rails, Device for checking the creep of. H. H. Sponenburg. No. 994,795; June 13; Sp. p. 1521; Gaz. vol. 167; p. 280.
Railway-rails, Device for preventing the creeping of. G. H. Lonergan. No. 1,009,674; Nov. 21; Sp. p. 4518; Gaz. vol. 172; p. 778.
Railway-rails, Means of securing and supporting. W. H. Kirkbride. No. 1,004,277; Sept. 26; Sp. p. 4619; Gaz. vol. 170; p. 817.
Railway-rails to metal ties, Clamp for securing. W. H. Morgan. No. 1,005,278; Oct. 10; Sp. p. 1537; Gaz. vol. 171; p. 278.
Railway-rails to ties, Device for securing. J. Timms. No. 996,685; July 4; Sp. p. 174; Gaz. vol. 168; p. 31.
Railway road-bed. W. S. Minor. No. 997,078; July 4; Sp. p. 1027; Gaz. vol. 168; p. 165.
Railway road-bed and track construction. J. N. D. Brown. No. 987,041; Mar. 14; Sp. p. 2684; Gaz. vol. 164; p. 465.
Railway road-bed and track construction. J. N. D. Brown. No. 992,403; May 16; Sp. p. 3397; Gaz. vol. 166; p. 612.
Railway-road-bed construction. C. R. Holden. No. 987,988; Mar. 28; Sp. p. 4776; Gaz. vol. 164; p. 852.
Railway road-bed, track, and rail construction. J. N. D. Brown. No. 1,009,020; Nov. 14; Sp. p. 3105; Gaz. vol. 172; p. 516.
Railway safety appliance. J. T. Andrew. No. 985,650; Feb. 28; Sp. p. 5186; Gaz. vol. 163; p. 917.
Railway safety appliance. J. T. Andrew. No. 986,261; Mar. 7; Sp. p. 1065; Gaz. vol. 164; p. 170.
Railway safety appliance. M. W. Foreman. No. 1,010,882; Dec. 5; Sp. p. 1076; Gaz. vol. 173; p. 169.
Railway safety appliance, Cable-. E. P. Dawley. No. 986,807; Mar. 14; Sp. p. 2227; Gaz. vol. 164; p. 386.
Railway safety device. J. T. Andrew. No. 987,094; Mar. 14; Sp. p. 2780; Gaz. vol. 164; p. 481.
Railway safety device. H. F. Dyer. No. 989,135; Apr. 11; Sp. p. 1768; Gaz. vol. 165; p. 308.
Railway safety device. C. B. Mitchell. No. 1,004,806; Oct. 3; Sp. p. 556; Gaz. vol. 171; p. 91.
Railway safety device, Inclined-. L. Walton. No. 1,009,118; Nov. 21; Sp. p. 3315; Gaz. vol. 172; p. 586.
Railway safety-switch. L. J. Kieffer. No. 990,273; Apr. 25; Sp. p. 4252; Gaz. vol. 165; p. 759.
Railway-signal. D. H. Rowley. No. 985,208; Feb. 28; Sp. p. 4223; Gaz. vol. 163; p. 766.
Railway-signal. J. W. Johnson. No. 987,371; Mar. 21; Sp. p. 3404; Gaz. vol. 164; p. 611.
Railway-signal. J. B. Struble. No. 987,653; Mar. 21; Sp. p. 3969; Gaz. vol. 164; p. 707.
Railway-signal. J. P. Coleman. No. 994,060; May 30; Sp. p. 6899; Gaz. vol. 166; p. 1239.
Railway-signal. J. P. Coleman. No. 994,125; June 6; Sp. p. 45; Gaz. vol. 167; p. 10.
Railway-signal. R. Skalicky and F. Mikulka. No. 1,002,087; Aug. 29; Sp. p. 6161; Gaz. vol. 169; p. 1114.
Railway-signal. S. L. Adler. No. 1,004,131; Sept. 26; Sp. p. 4317; Gaz. vol. 170; p. 768.
Railway-signal. A. H. Bernadou. No. 1,006,901; Oct. 24; Sp. p. 5184; Gaz. vol. 171; p. 911.
Railway signal and safety device. C. H. Kirkendall. No. 999,316; Aug. 1; Sp. p. 232; Gaz. vol. 169; p. 44.
Railway signal-semaphore. G. H. Pfeil. No. 991,537; May 9; Sp. p. 1526; Gaz. vol. 166; p. 283.
Railway signal system. A. L. Ruthven. No. 989,194; Apr. 11; Sp. p. 1887; Gaz. vol. 165; p. 328.
Railway signaling. L. F. Howard. No. 1,009,309; Nov. 21; Sp. p. 3757; Gaz. vol. 172; p. 655.
Railway signaling apparatus. A. Förster. No. 990,971; May 2; Sp. p. 305; Gaz. vol. 166; p. 52.
Railway signaling apparatus. W. P. Neubert and W. H. McClelland, Jr. No. 992,236; May 16; Sp. p. 2998; Gaz. vol. 166; p. 552.
Railway signaling mechanism. M. McDonald. No. 991,339; May 2; Sp. p. 1100; Gaz. vol. 166; p. 184.
Railway signaling system. R. P. Tuttle. No. 980,709; Jan. 3; Sp. p. 1151; Gaz. vol. 162; p. 184.
Railway signaling system. H. W. Lewis. No. 991,072; May 2; Sp. p. 508; Gaz. vol. 166; p. 88.
Railway signaling system. H. C. Bennecke. No. 994,814; June 13; Sp. p. 1562; Gaz. vol. 167; p. 286.
Railway signaling system. H. W. Griffin. No. 1,000,401; Aug. 15; Sp. p. 2532; Gaz. vol. 169; p. 473.
Railway signaling system. H. W. Griffin. No. 1,000,402; Aug. 15; Sp. p. 2535; Gaz. vol. 169; p. 473.
Railway signaling system. T. H. Patenall and W. W. Talbert. No. 1,003,199; Sept. 12; Sp. p. 2232; Gaz. vol. 170; p. 384.
Railway signaling system. H. A. Wallace. No. 1,011,291; Dec. 12; Sp. p. 2015; Gaz. vol. 173; p. 347.
Railway signaling system, Electric. J. B. Struble. No. 997,215; July 4; Sp. p. 1300; Gaz. vol. 168; p. 212.
Railway signaling system, Electric. T. M. Freeble. No. 999,444; Aug. 1; Sp. p. 496; Gaz. vol. 169; p. 87.

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Railway-sleeper. M. W. Matthaei. No. 1,003,629; Sept. 19; Sp. p. 3146; Gaz. vol. 170; p. 568.
Railway-sleeper-grooving machine. F. Altenstein. No. 999,623; Aug. 1; Sp. p. 839; Gaz. vol. 169; p. 146.
Railway, Sliding-. E. S. Jenison. No. 1,000,009; Aug. 8; Sp. p. 1659; Gaz. vol. 169; p. 308.
Railway-spike. C. A. Flanagan. No. 985,519; Feb. 28; Sp. p. 4930; Gaz. vol. 163; p. 873.
Railway-spike. L. P. Terry. No. 989,825; Apr. 18; Sp. p. 3298; Gaz. vol. 165; p. 575.
Railway-spike. H. Jeffrey. No. 990,137; Apr. 18; Sp. p. 3935; Gaz. vol. 165; p. 679.
Railway-spike. S. E. Bell. No. 990,217; Apr. 25; Sp. p. 4122; Gaz. vol. 165; p. 738.
Railway-spike. R. Begg. No. 991,688; May 9; Sp. p. 1871; Gaz. vol. 166; p. 338.
Railway-spike. T. Wakefield. No. 995,503; June 20; Sp. p. 3063; Gaz. vol. 167; p. 546.
Railway-spike. F. P. Kobert. No. 998,781; July 25; Sp. p. 4771; Gaz. vol. 168; p. 862.
Railway-spike. J. S. Fox. No. 999,773; Aug. 8; Sp. p. 1143; Gaz. vol. 169; p. 227.
Railway-spike. E. Erikson. No. 1,000,246; Aug. 8; Sp. p. 2180; Gaz. vol. 169; p. 388.
Railway-spike. E. J. Bricker. No. 1,001,612; Aug. 29; Sp. p. 5151; Gaz. vol. 169; p. 955.
Railway-spike and steel-tie fastener. P. O'Donnell. No. 985,278; Feb. 28; Sp. p. 4384; Gaz. vol. 163; p. 790.
Railway-spike-forming machine. J. H. Alexander and W. J. Brinkman. No. 997,485; July 11; Sp. p. 1838; Gaz. vol. 168; p. 331.
Railway-spike protector. W. L. Gregory. No. 982,592; Jan. 24; Sp. p. 5315; Gaz. vol. 162; p. 916.
Railway splice-bar. J. P. Currin. No. 992,757; May 23; Sp. p. 4124; Gaz. vol. 166; p. 763.
Railway splice-bar. J. K. Smith. No. 998,415; July 18; Sp. p. 3964; Gaz. vol. 168; p. 702.
Railway-spreader. O. F. Jordan. No. 996,256; June 27; Sp. p. 4731; Gaz. vol. 167; p. 842.
Railway-staff. W. H. McGeever. No. 982,082; Jan. 17; Sp. p. 4265; Gaz. vol. 162; p. 710.
Railway structure. E. M. Boynton. No. 980,191; Jan. 3; Sp. p. 24; Gaz. vol. 162; p. 7.
Railway structure. C. W. Reinoehl and B. L. Weaver. No. 983,839; Feb. 7; Sp. p. 1254; Gaz. vol. 163; p. 200.
Railway-switch. O. McKenney. No. 983,560; Feb. 7; Sp. p. 673; Gaz. vol. 163; p. 104.
Railway-switch. L. C. Rousseau. No. 983,771; Feb. 7; Sp. p. 1097; Gaz. vol. 163; p. 176.
Railway-switch. R. A. Neatherland. No. 985,275; Feb. 28; Sp. p. 4379; Gaz. vol. 163; p. 789.
Railway-switch. L. A. Sydnor. No. 988,673; Apr. 4; Sp. p. 818; Gaz. vol. 165; p. 132.
Railway-switch. W. J. Sanders. No. 989,295; Apr. 11; Sp. p. 2127; Gaz. vol. 165; p. 363.
Railway-switch. P. D. Hibner. No. 993,683; May 30; Sp. p. 6148; Gaz. vol. 166; p. 1112.
Railway-switch. E. R. Hanna. No. 995,535; June 20; Sp. p. 3135; Gaz. vol. 167; p. 558.
Railway-switch. E. G. Jackson. No. 996,858; July 4; Sp. p. 538; Gaz. vol. 168; p. 88.
Railway-switch. W. D. Baldwin. No. 997,174; July 4; Sp. p. 1220; Gaz. vol. 168; p. 197.
Railway-switch. J. F. Keenan. No. 998,098; July 18; Sp. p. 3262; Gaz. vol. 168; p. 588.
Railway-switch. P. P. Catalano. No. 999,093; July 25; Sp. p. 5464; Gaz. vol. 168; p. 972.
Railway-switch. D. B. Caudy and E. K. Cutlip. No. 1,001,618; Aug. 29; Sp. p. 5161; Gaz. vol. 169; p. 956.
Railway-switch. W. M. Henderson. No. 1,005,209; Oct. 10; Sp. p. 1366; Gaz. vol. 171; p. 252.
Railway-switch. C. O. Anderson. No. 1,005,790; Oct. 17; Sp. p. 2663; Gaz. vol. 171; p. 489.
Railway-switch. J. J. Kern. No. 1,006,227; Oct. 17; Sp. p. 3659; Gaz. vol. 171; p. 644.
Railway-switch. E. D. Brown. No. 1,006,717; Oct. 24; Sp. p. 4740; Gaz. vol. 171; p. 845.
Railway-switch. J. Funderburg. No. 1,006,743; Oct. 24; Sp. p. 4800; Gaz. vol. 171; p. 854.
Railway-switch. P. Bare. No. 1,009,012; Nov. 14; Sp. p. 3089; Gaz. vol. 172; p. 514.
Railway-switch. M. A. Walther. No. 1,009,871; Nov. 28; Sp. p. 4940; Gaz. vol. 172; p. 892.
Railway-switch. T. L. Hensley. No. 1,010,494; Dec. 5; Sp. p. 209; Gaz. vol. 173; p. 34.
Railway-switch. F. Smith. No. 1,011,086; Dec. 5; Sp. p. 1501; Gaz. vol. 173; p. 238.
Railway-switch. F. Smith. No. 1,011,087; Dec. 5; Sp. p. 1506; Gaz. vol. 173; p. 238.
Railway switch and frog. A. Scohy. No. 1,001,776; Aug. 29; Sp. p. 5503; Gaz. vol. 169; p. 1011.
Railway-switch and switch-operating device. F. P. Lane. No. 982,833; Jan. 31; Sp. p. 5828; Gaz. vol. 162; p. 1026.
Railway-switch, Automatic. J. W. Rice. No. 986,026; Mar. 7; Sp. p. 585; Gaz. vol. 164; p. 94.
Railway-switch, Automatic. L. C. Bonelli. No. 988,073; Mar. 28; Sp. p. 4961; Gaz. vol. 164; p. 880.
Railway-switch, Automatic. J. C. Preston. No. 990,388; Apr. 25; Sp. p. 4535; Gaz. vol. 165; p. 800.
Railway-switch, Automatic. S. R. Moré. No. 993,187; May 23; Sp. p. 5049; Gaz. vol. 166; p. 911.
Railway-switch, Automatic. F. L. Bille. No. 995,317; June 13; Sp. p. 2612; Gaz. vol. 167; p. 452.
Railway-switch, Automatic. H. Shemwell. No. 998,643; July 25; Sp. p. 4449; Gaz. vol. 168; p. 814.
Railway-switch, Automatic. E. F. Borgstede. No. 1,004,735; Oct. 3; Sp. p. 407; Gaz. vol. 171; p. 68.
Railway switch, Automatic street-. J. Mento. No. 1,008,660; Nov. 14; Sp. p. 2344; Gaz. vol. 172; p. 396.
Railway-switch, Electrically-controlled. B. Schlater. No. 991,247; May 2; Sp. p. 895; Gaz. vol. 166; p. 152.
Railway-switch instrument. C. O. Anderson. No. 1,011,554; Dec. 12; Sp. p. 2601; Gaz. vol. 173; p. 440.
Railway-switch-operating device. T. E. Lee. No. 982,214; Jan. 17; Sp. p. 4506; Gaz. vol. 162; p. 755.
Railway-switch-operating mechanism. C. B. Rice, Jr., T. Bryan, and C. F. Goodrich. No. 983,645; Feb. 7; Sp. p. 834; Gaz. vol. 163; p. 133.
Railway-switch-operating mechanism, Automatic. D. F. Hoffmann. No. 999,999; Aug. 8; Sp. p. 1615; Gaz. vol. 169; p. 304.
Railway-switch-operating mechanism, Electric. H. I. Blattle. No. 997,897; July 11; Sp. p. 2782; Gaz. vol. 168; p. 475.
Railway-switch-operating mechanism, Street-. M. H. Mosher. No. 996,507; June 27; Sp. p. 5292; Gaz. vol. 167; p. 928.
Railway-switch, Safety. I. A. Call. No. 995,950; June 20; Sp. p. 4044; Gaz. vol. 167; p. 704.
Railway-switch signal. W. J. Bell. No. 1,008,938; Nov. 14; Sp. p. 2922; Gaz. vol. 172; p. 488.
Railway-switch signal. A. H. Johnson. No. 1,011,801; Dec. 12; Sp. p. 3152; Gaz. vol. 173; p. 527.
Railway-switch slide-plate. C. W. Reinoehl and B. L. Weaver. No. 987,402; Mar. 21; Sp. p. 3477; Gaz. vol. 164; p. 622.
Railway-switch stand. H. C. Odenkirk. No. 1,007,380; Oct. 31; Sp. p. 6215; Gaz. vol. 171; p. 1132.
Railway switch, Street-. R. B. Woodall. No. 991,403; May 2; Sp. p. 1227; Gaz. vol. 166; p. 205.
Railway-switch structure. H. L. Miller. No. 1,007,371; Oct. 31; Sp. p. 6195; Gaz. vol. 171; p. 1129.
Railway-switch structure. H. S. Evans. No. 1,007,437; Oct. 31; Sp. p. 6343; Gaz. vol. 171; p. 1152.
Railway-switches, Adjustable crank for. T. O'Brien. No. 993,789; May 30; Sp. p. 6372; Gaz. vol. 166; p. 1148.
Railway-switches, Interlocking and detector-bar mechanism for. T. H. Otley. No. 996,275; June 27; Sp. p. 4785; Gaz. vol. 167; p. 848.
Railway-switches, Locking mechanism for. F. H. Ellis. No. 1,008,590; Nov. 14; Sp. p. 2182; Gaz. vol. 172; p. 372.
Railway switching mechanism, Trip device for actuating electric. F. H. Kaiser. No. 998,183; July 18; Sp. p. 3427; Gaz. vol. 168; p. 618.
Railway system, Electric-. C. A. Huse and S. M. Bowman. No. 980,526; Jan. 3; Sp. p. 769; Gaz. vol. 162; p. 123.
Railway-tie. J. P. Boogher. No. 980,189; Jan. 3; Sp. p. 21; Gaz. vol. 162; p. 6.
Railway-tie. J. S. Butcher. No. 980,758; Jan. 3; Sp. p. 1240; Gaz. vol. 162; p. 199.
Railway-tie. M. Jankiewitz. No. 980,788; Jan. 3; Sp. p. 1305; Gaz. vol. 162; p. 210.
Railway-tie. J. A. Stoner. No. 981,954; Jan. 17; Sp. p. 4004; Gaz. vol. 162; p. 668.
Railway-tie. C. O. Pearce. No. 982,525; Jan. 24; Sp. p. 5194; Gaz. vol. 162; p. 895.
Railway-tie. W. Pratt and J. Calahan. No. 982,867; Jan. 31; Sp. p. 5914; Gaz. vol. 162; p. 1038.
Railway-tie. A. M. Threewits. No. 983,658; Feb. 7; Sp. p. 867; Gaz. vol. 163; p. 138.
Railway-tie. R. Croft. No. 983,690; Feb. 7; Sp. p. 943; Gaz. vol. 163; p. 149.
Railway-tie. J. A. Brooks. No. 984,535; Feb. 21; Sp. p. 2797; Gaz. vol. 163; p. 500.
Railway-tie. E. W. Atkinson. No. 985,123; Feb. 28; Sp. p. 3993; Gaz. vol. 163; p. 736.
Railway-tie. W. F. Walker. No. 985,381; Feb. 28; Sp. p. 4590; Gaz. vol. 163; p. 823.
Railway-tie. E. R. Axelson and C. B. Desmond. No. 986,669; Mar. 14; Sp. p. 1942; Gaz. vol. 164; p. 342.
Railway-tie. J. H. Mowry and A. M. Anderson. No. 987,252; Mar. 21; Sp. p. 3154; Gaz. vol. 164; p. 571.
Railway-tie. R. G. Osborne. No. 988,282; Mar. 28; Sp. p. 5356; Gaz. vol. 164; p. 948.
Railway-tie. G. D. Price. No. 988,736; Apr. 4; Sp. p. 966; Gaz. vol. 165; p. 153.
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Railway-tie. J. Burnam. No. 989,331; Apr. 11; Sp. p. 2208; Gaz. vol. 165; p. 375.
Railway-tie. M. J. Munson and S. V. Whitaker. No. 989,393; Apr. 11; Sp. p. 2337; Gaz. vol. 165; p. 395.
Railway-tie. C. C. Martin. No. 989,917; Apr. 18; Sp. p. 3487; Gaz. vol. 165; p. 606.
Railway-tie. S. E. Berrier. No. 990,696; Apr. 25; Sp. p. 5248; Gaz. vol. 165; p. 905.
Railway-tie. C. W. Baeder. No. 991,188; May 2; Sp. p. 767; Gaz. vol. 166; p. 131.

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Railway-tie. F. E. Fetter. No. 992,415; May 16; Sp. p. 3422; Gaz. vol. 166; p. 616.
Railway-tie. M. Morel. No. 992,681; May 16; Sp. p. 3961; Gaz. vol. 166; p. 707.
Railway-tie. H. Kohlmyer. No. 993,176; May 23; Sp. p. 5030; Gaz. vol. 166; p. 908.
Railway-tie. G. P. Winsall. No. 993,430; May 30; Sp. p. 5580; Gaz. vol. 166; p. 1024.
Railway-tie. K. R. Schuster. No. 993,798; May 30; Sp. p. 6389; Gaz. vol. 166; p. 1151.
Railway-tie. W. Fullard. No. 994,453; June 6; Sp. p. 718; Gaz. vol. 167, p. 123.
Railway-tie. J. D. Ellis. No. 994,827; June 13; Sp. p. 1614; Gaz. vol. 167; p. 291.
Railway-tie. W. J. Bell. No. 994,902; June 13; Sp. p. 1794; Gaz. vol. 167; p. 316.
Railway-tie. H. F. Gorsuch. No. 995,452; June 20; Sp. p. 2959; Gaz. vol. 167; p. 528.
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Railway-tie. W. V. La Bau. No. 997,452; July 11; Sp. p. 1768; Gaz. vol. 168; p. 321.
Railway-tie. D. B. Biser. No. 997,952; July 18; Sp. p. 2923; Gaz. vol. 168; p. 537.
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Railway-tie. H. H. Parry. No. 999,250; Aug. 1; Sp. p. 116; Gaz. vol. 169; p. 21.
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Railway-tie. G. S. Wright. No. 999,477; Aug. 1; Sp. p. 553; Gaz. vol. 169; p. 97.
Railway-tie. H. F. Bezy. No. 1,001,243; Aug. 22; Sp. p. 4397; Gaz. vol. 169; p. 800.
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Railway-tie. J. L. Arnold. No. 1,001,598; Aug. 22; Sp. p. 5117; Gaz. vol. 169; p. 919.
Railway-tie. C. W. Libke. No. 1,001,763; Aug. 29; Sp. p. 5480; Gaz. vol. 169; p. 1007.
Railway-tie. J. P. Webb. No. 1,001,788; Aug. 29; Sp. p. 5530; Gaz. vol. 169; p. 1015.
Railway-tie. W. B. Houck. No. 1,002,991; Sept. 12; Sp. p. 1803; Gaz. vol. 170; p. 312.
Railway-tie. E. T. Wade. No. 1,003,553; Sept. 19; Sp. p. 2964; Gaz. vol. 170; p. 541.
Railway-tie. J. W. Clark, Jr. No. 1,003,707; Sept. 19; Sp. p. 3323; Gaz. vol. 170; p. 595.
Railway-tie. C. F. Jenkins. No. 1,003,751; Sept. 19; Sp. p. 3416; Gaz. vol. 170; p. 609.
Railway-tie. C. G. B. Gunn. No. 1,003,898; Sept. 19; Sp. p. 3697; Gaz. vol. 170; p. 658.
Railway-tie. J. W. Shipley. No. 1,004,483; Sept. 26; Sp. p. 5043; Gaz. vol. 170; p. 887.
Railway-tie. W. A. Flook. No. 1,004,765; Oct. 3; Sp. p. 470; Gaz. vol. 171; p. 78.
Railway-tie. C. L. Frevert. No. 1,005,188; Oct. 10; Sp. p. 1318; Gaz. vol. 171; p. 245.
Railway-tie. R. E. Schmitz. No. 1,005,657; Oct. 10; Sp. p. 2402; Gaz. vol. 171; p. 412.
Railway-tie. J. U. Johnston and J. E. Futer. No. 1,005,975; Oct. 17; Sp. p. 3091; Gaz. vol. 171; p. 555.
Railway-tie. C. W. Smith. No. 1,006,695; Oct. 24; Sp. p. 4703; Gaz. vol. 171; p. 837.
Railway-tie. G. T. Appleyard and A. M. Robson. No. 1,007,660; Nov. 7; Sp. p. 1; Gaz. vol. 172; p. 3.
Railway-tie. W. A. O. Jones. No. 1,009,526; Nov. 21; Sp. p. 4251; Gaz. vol. 172; p. 732.
Railway-tie. A. E. Marshall and F. J. Chamrod. No. 1,009,539; Nov. 21; Sp. p. 4271; Gaz. vol. 172; p. 736.
Railway-tie. J. F. O'Neill. No. 1,009,555; Nov. 21; Sp. p. 4306; Gaz. vol. 172; p. 741.
Railway-tie. J. W. Blower. No. 1,009,717; Nov. 28; Sp. p. 4626; Gaz. vol. 172; p. 840.
Railway-tie. F. Klinger and W. Retallick. No. 1,011,064; Dec. 5; Sp. p. 1451; Gaz. vol. 173; p. 230.
Railway-tie. F. Still. No. 1,011,657; Dec. 12; Sp. p. 2865; Gaz. vol. 173; p. 478.
Railway-tie. J. C. Branham. No. 1,012,058; Dec. 19; Sp. p. 3741; Gaz. vol. 173; p. 650.
Railway-tie and clamp. A. Brinkman. No. 1,001,188; Aug. 22; Sp. p. 4283; Gaz. vol. 169; p. 782.
Railway-tie and fastener. W. F. Walker. No. 982,452; Jan. 24; Sp. p. 5047; Gaz. vol. 162; p. 871.
Railway-tie and fastener. J. W. Sheatzley. No. 1,001,999; Aug. 29; Sp. p. 6003; Gaz. vol. 169; p. 1086.
Railway-tie and fastener. J. C. Pennell. No. 1,008,672; Nov. 14; Sp. p. 2368; Gaz. vol. 172; p. 400.
Railway-tie and fastener. G. H. Robinson. No. 1,009,579; Nov. 21; Sp. p. 4353; Gaz. vol. 172; p. 749.
Railway-tie and fastener. J. T. Clark. No. 1,010,587; Dec. 5; Sp. p. 418; Gaz. vol. 173; p. 66.
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Railway-tie and fastening. J. L. Kimball. No. 993,254; May 23; Sp. p. 5184; Gaz. vol. 166; p. 932.
Railway-tie and fastening. L. C. Engle. No. 1,001,938; Aug. 29; Sp. p. 5875; Gaz. vol. 169; p. 1066.
Railway-tie and fastening. J. L. Kimball. No. 1,013,023; Dec. 26; Sp. p. 5860; Gaz. vol. 173; p. 1024.
Railway-tie and rail-clamp, Combined. J. L. Finley. No. 980,235; Jan. 3; Sp. p. 111; Gaz. vol. 162; p. 22.
Railway-tie and rail-fastener. J. J. Planett. No. 986,214; Mar. 7; Sp. p. 949; Gaz. vol. 164; p. 154.
Railway-tie and rail-fastener. N. Bayuk. No. 998,669; July 25; Sp. p. 4509; Gaz. vol. 168; p. 822.
Railway-tie and rail-fastening. J. W. Stephenson. No. 995,197; June 13; Sp. p. 2384; Gaz. vol. 167; p. 413.
Railway-tie and rail-fastening. J. J. Stawartz. No. 1,009,199; Nov. 21; Sp. p. 3482; Gaz. vol. 172; p. 614.
Railway-tie and rail-fastening. M. Krompigel. No. 1,012,370; Dec. 19; Sp. p. 4418; Gaz. vol. 173; p. 756.
Railway-tie and rail-fastening, Metallic. J. W. Stephenson. No. 995,195; June 13; Sp. p. 2381; Gaz. vol. 167; p. 413.
Railway-tie and support therefor, Metallic. J. W. Cooper. No. 981,980; Jan. 17; Sp. p. 4053; Gaz. vol. 162; p. 676.
Railway-tie, Cement and steel. W. J. Horn. No. 986,920; Mar. 14; Sp. p. 2469; Gaz. vol. 164; p. 427.
Railway-tie, Composite. W. A. Saul. No. 1,001,894; Aug. 29; Sp. p. 5772; Gaz. vol. 169; p. 1052.
Railway-tie, Composite. H. J. Buell. No. 1,006,430; Oct. 17; Sp. p. 4099; Gaz. vol. 171; p. 714.
Railway-tie, Composite. J. H. Killinger. No. 1,008,829; Nov. 14; Sp. p. 2701; Gaz. vol. 172; p. 454.
Railway-tie, Composite. J. J. Quinn. No. 1,010,316; Nov. 28; Sp. p. 5846; Gaz. vol. 172; p. 1041.
Railway-tie fastener and brace. C. D. Loehr. No. 990,890; May 2; Sp. p. 133; Gaz. vol. 166; p. 25.
Railway-tie, Metal. M. H. Liston and A. C. Pitman. No. 993,850; May 30; Sp. p. 6493; Gaz. vol. 166; p. 1169.
Railway-tie, Metal. J. W. Stephenson. No. 995,385; June 13; Sp. p. 2796; Gaz. vol. 167; p. 476.
Railway-tie, Metal. J. W. Stephenson. No. 995,386; June 13; Sp. p. 2798; Gaz. vol. 167; p. 476.
Railway-tie, Metal. J. S. McAnarney. No. 1,001,420; Aug. 22; Sp. p. 4779; Gaz. vol. 169; p. 861.
Railway-tie, Metallic. J. H. Reed. No. 986,085; Mar. 7; Sp. p. 703; Gaz. vol. 164; p. 112.
Railway-tie, Metallic. J. L. Pfleegor. No. 988,947; Apr. 4; Sp. p. 1373; Gaz. vol. 165; p. 220.
Railway-tie, Metallic. R. Seidelinger. No. 991,756; May 9; Sp. p. 1989; Gaz. vol. 166; p. 357.
Railway-tie, Metallic. F. B. Hewel. No. 991,987; May 9; Sp. p. 2457; Gaz. vol. 166; p. 436.
Railway-tie, Metallic. C. P. Hammond. No. 992,351; May 16; Sp. p. 3296; Gaz. vol. 166; p. 593.
Railway-tie, Metallic. J. Dematteis. No. 996,706; July 4; Sp. p. 223; Gaz. vol. 168; p. 38.
Railway-tie, Metallic. O. W. Beach. No. 997,893; July 11; Sp. p. 2776; Gaz. vol. 168; p. 474.
Railway-tie, Metallic. J. M. Levier. No. 1,001,055; Aug. 22; Sp. p. 4016; Gaz. vol. 169; p. 739.
Railway-tie, Metallic. J. J. White. No. 1,001,327; Aug. 22; Sp. p. 4585; Gaz. vol. 169; p. 830.
Railway-tie, Metallic. J. N. Kemmerer. No. 1,006,951; Oct. 24; Sp. p. 5273; Gaz. vol. 171; p. 928.
Railway-tie, Metallic. H. C. Tinnin. No. 1,006,988; Oct. 24; Sp. p. 5354; Gaz. vol. 171; p. 939.
Railway-tie, Metallic. L. Saucier, Jr. No. 1,009,932; Nov. 28; Sp. p. 5052; Gaz. vol. 172; p. 912.
Railway-tie, Metallic. W. H. Haws. No. 1,010,756; Dec. 5; Sp. p. 799; Gaz. vol. 173; p. 125.
Railway tie or sleeper. W. L. Sykes. No. 985,470; Feb. 28; Sp. p. 4817; Gaz. vol. 163; p. 856.
Railway-tie plate. J. W. Doster. No. 986,698; Mar. 14; Sp. p. 1993; Gaz. vol. 164; p. 351.
Railway-tie rail-fastening, Metallic. A. Bryfogle. No. 993,149; May 23; Sp. p. 4977; Gaz. vol. 166; p. 900.
Railway-tie, Reinforced. W. D. Forsyth. No. 999,771; Aug. 8; Sp. p. 1141; Gaz. vol. 169; p. 226.
Railway-tie, Reinforced-cement. J. H. Flood. No. 1,003,590; Sept. 19; Sp. p. 3063; Gaz. vol. 170; p. 552.
Railway-tie, Reinforced-composition. R. Hayes. No. 990,650; Apr. 25; Sp. p. 5123; Gaz. vol. 165; p. 891.
Railway-tie-reinforcing device. J. F. Body. No. 988,620; Apr. 4; Sp. p. 713; Gaz. vol. 165; p. 114.
Railway-tie replacer. B. S. Olson. No. 1,006,122; Oct. 17; Sp. p. 3411; Gaz. vol. 171; p. 606.
Railway-tie spacer. J. W. Wood. No. 1,010,208; Nov. 28; Sp. p. 5625; Gaz. vol. 172; p. 1006.
Railway-tie, Steel. W. D. Forsyth. No. 996,630; July 4; Sp. p. 78; Gaz. vol. 168; p. 14.
Railway-tie, Steel. C. W. Gooch. No. 999,644; Aug. 1; Sp. p. 879; Gaz. vol. 169; p. 153.
Railway-ties, Detachable rail-cushion and fastening for. C. W. Smith and W. J. Boerger. No. 1,006,696; Oct. 24; Sp. p. 4703; Gaz. vol. 171; p. 837.

Railway-ties, Insulated connection for metallic. F. G. Metcalf. No. 998,108; July 18; Sp. p. 3283; Gaz. vol. 168; p. 592.
Railway-track. J. J. Ingersoll, Jr. No. 987,464; Mar. 21; Sp. p. 3609; Gaz. vol. 164; p. 643.
Railway-track. A. L. Plimpton. No. 995,369; June 13; Sp. p. 2768; Gaz. vol. 167; p. 472.
Railway-track. F. Nowodworski. No. 996,121; June 27; Sp. p. 4406; Gaz. vol. 167; p. 797.
Railway track and rails. E. Norwood. No. 1,012,900; Dec. 26; Sp. p. 5571; Gaz. vol. 173; p. 983.
Railway-track construction. J. W. Blower. No. 981,971; Jan. 17; Sp. p. 4033; Gaz. vol. 162; p. 673.
Railway-track construction. W. H. Conry. No. 990,843; May 2; Sp. p. 31; Gaz. vol. 166; p. 8.
Railway-track construction. T. Catchings. No. 1,003,703; Sept. 19; Sp. p. 3316; Gaz. vol. 170; p. 593.
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Railway-track curve. J. W. McManama. No. 1,006,579; Oct. 24; Sp. p. 4476; Gaz. vol. 171; p. 799.
Railway-track frog and guard-rail. J. W. Thomas. No. 994,215; June 6; Sp. p. 239; Gaz. vol. 167; p. 41.
Railway-track, Portable. O. W. Meissner. No. 990,282; Apr. 25; Sp. p. 4273; Gaz. vol. 165; p. 762.
Railway-track rail. W. Hessinger. No. 982,061; Jan. 17; Sp. p. 4220; Gaz. vol. 162; p. 703.
Railway-track safety appliance. J. Morton. No. 989,276; Apr. 11; Sp. p. 2079; Gaz. vol. 165; p. 355.
Railway-track safety device. R. E. Carlton and M. W. Ryle. No. 985,006; Feb. 21; Sp. p. 3741; Gaz. vol. 163; p. 661.
Railway-track safety device. J. B. Compton. No. 1,010,480; Dec. 5; Sp. p. 181; Gaz. vol. 173; p. 30.
Railway-track scale. M. Maurer. No. 999,386; Aug. 1; Sp. p. 387; Gaz. vol. 169; p. 68.
Railway-track structure. F. J. Reddick. No. 981,472; Jan. 10; Sp. p. 2957; Gaz. vol. 162; p. 480.
Railway-track structures, Foot-guard for. J. W. Stephenson. No. 1,011,653; Dec. 12; Sp. p. 2856; Gaz. vol. 173; p. 477.
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Railway-track switch. J. B. O'Donnell. No. 997,410; July 11; Sp. p. 1695; Gaz. vol. 168; p. 308.
Railway track-tank. E. D. Nelson. No. 1,000,749; Aug. 15; Sp. p. 3309; Gaz. vol. 169; p. 597.
Railway-track weed-cutter. W. M. McGibbon. No. 987,899; Mar. 28; Sp. p. 4548; Gaz. vol. 164; p. 820.
Railway-tracks, Means for leveling and finishing the surfaces of ballasted. T. S. Cafferty. (Reissue.) No. 13,194; Jan. 10; Sp. p. 3197; Gaz. vol. 162; p. 522.
Railway-tracks, Resilient support for. H. H. Tunis. No. 982,315; Jan. 24; Sp. p. 4743; Gaz. vol. 162; p. 820.
Railway-traffic-controlling apparatus. F. L. Dodgson. No. 1,012,064; Dec. 19; Sp. p. 3758; Gaz. vol. 173; p. 652.
Railway-train arrester, Automatic. R. A. Willson and A. L. Wright. No. 1,012,493; Dec. 19; Sp. p. 4647; Gaz. vol. 173; p. 798.
Railway-train-order indicator. G. A. Bosworth. No. 999,625; Aug. 1; Sp. p. 841; Gaz. vol. 169; p. 147.
Railway-vehicle, Electric. G. M. Eaton. No. 990,966; May 2; Sp. p. 297; Gaz. vol. 166; p. 51.
Railway-vehicle, Electric. G. M. Eaton. No. 993,589; May 30; Sp. p. 5922; Gaz. vol. 166; p. 1079.
Railway-velocipede. I. J. Mossman. No. 1,013,041; Dec. 26; Sp. p. 5892; Gaz. vol. 173; p. 1030.
Railway water-tanks, Attachment for the spouts of. J. L. Lattimer. No. 983,149; Jan. 31; Sp. p. 6502; Gaz. vol. 162; p. 1131.
Railways and the like, Means for advancing and locking machines adapted to facilitate constructing and repairing of. C. G. Smith. No. 989,933; Apr. 18; Sp. p. 3525; Gaz. vol. 165; p. 612.
Railways, Automatic switch for street-. A. R. Brett. No. 988,857; Apr. 4; Sp. p. 1197; Gaz. vol. 165; p. 191.
Railways, Electric train-controlling device for. R. T. and F. T. Jones. No. 1,010,371; Nov. 28; Sp. p. 5960; Gaz. vol. 172; p. 1059.
Railways, Electrically-controlled safety appliance for. R. T. and F. T. Jones. No. 996,344; June 27; Sp. p. 4953; Gaz. vol. 167; p. 872.
Railways, Electropneumatic braking appliance for. M. H. Burchard and R. P. Noble. No. 1,012,059; Dec. 19; Sp. p. 3742; Gaz. vol. 173; p. 650.
Railways, Machine for transporting and laying out ties in the constructing of. C. G. Smith. No. 989,932; Apr. 18; Sp. p. 3522; Gaz. vol. 165; p. 612.
Railways, Magnetic control system for. A. H. Fox and A. W. Lenderoth. No. 1,007,192; Oct. 31; Sp. p. 5838; Gaz. vol. 171; p. 1066.
Railways, Neutralizing induction from alternating-current. W. S. Bralley. No. 1,011,020; Dec. 5; Sp. p. 1351; Gaz. vol. 173; p. 215.
Railways, Overhead structure for electric. T. Varney. No. 1,010,096; Nov. 28; Sp. p. 5407; Gaz. vol. 172; p. 969.
Railways, Third rail for electric. J. N. Tomlinson. No. 995,204; June 13; Sp. p. 2393; Gaz. vol. 167; p. 415.
Raisin seeding and packing process and apparatus. N. B. Converse. No. 998,075; July 18; Sp. p. 3200; Gaz. vol. 168; p. 580.
Raisins in the process of seeding, Method and apparatus for treating. N. B. Converse. No. 992,856; May 23; Sp. p. 4343; Gaz. vol. 166; p. 798.
Raising and lowering device. J. R. Robinson. No. 981,314; Jan. 10; Sp. p. 2611; Gaz. vol. 162; p. 425.
Raising and lowering mechanism. W. W. Bird and L. W. Rawson. No. 1,010,574; Dec. 5; Sp. p. 385; Gaz. vol. 173; p. 61.
Rake: *See* Hay-rake; Hay or sweep rake; Side-delivery rake; Sweep-rake; Tilting rake.
Rake. J. G. Alexander. No. 994,105; June 6; Sp. p. 1; Gaz. vol. 167; p. 3.
Rake. J. Peart. No. 1,010,310; Nov. 28; Sp. p. 5836; Gaz. vol. 172; p. 1039.
Rake. G. M. Rushing. No. 1,012,712; Dec. 26; Sp. p. 5129; Gaz. vol. 173; p. 920.
Rake-cleaning mechanism, Horse-. W. Weaver. No. 994,622; June 6; Sp. p. 1076; Gaz. vol. 167; p. 179.
Raker-gage. M. F. Higbee. No. 1,003,904; Sept. 19; Sp. p. 3908; Gaz. vol. 170; p. 660.
Raking-drum. C. E. and C. H. White. No. 983,662; Feb. 7; Sp. p. 873; Gaz. vol. 163; p. 139.
Ram, Hydraulic. G. W. Walters. No. 992,524; May 16; Sp. p. 3641; Gaz. vol. 166; p. 654.
Ram, Hydraulic. J. B. Courtet. No. 1,005,417; Oct. 10; Sp. p. 1837; Gaz. vol. 171; p. 327.
Ram, Hydraulic. F. Gruber. No. 1,012,633; Dec. 26; Sp. p. 4958; Gaz. vol. 173; p. 891.
Ram-starter, Automatic. J. F. T. B. Brentano. No. 1,006,352; Oct. 17; Sp. p. 3932; Gaz. vol. 171; p. 687.
Rammer, Chain. D. F. Asbury. No. 980,181; Jan. 3; Sp. p. 5; Gaz. vol. 162; p. 4.
Rammer, Chain. B. Vogeler. No. 987,513; Mar. 21; Sp. p. 3692; Gaz. vol. 164; p. 659.
Rammer, Power-. F. W. Hudson. No. 995,678; June 20; Sp. p. 3455; Gaz. vol. 167; p. 609.
Ramie and other fabrics water-repellent and coloring the same, Rendering. A. M. Hart. No. 984,665; Feb. 21; Sp. p. 3071; Gaz. vol. 163; p. 544.
Ramie, Producing a cotton substitute from. P. Birkenstock. No. 1,004,974; Oct. 3; Sp. p. 903; Gaz. vol. 171; p. 149.
Rand. L. H. Shaw. No. 990,396; Apr. 25; Sp. p. 4555; Gaz. vol. 165; p. 804.
Range. P. Riess and D. Lemley. No. 993,715; May 30; Sp. p. 6216; Gaz. vol. 166; p. 1124.
Range and water-heater, Combined. H. Van Buren. No. 981,332; Jan. 10; Sp. p. 2651; Gaz. vol. 162; p. 431.
Range, Cooking-. B. W. Smith. No. 1,007,397; Oct. 31; Sp. p. 6255; Gaz. vol. 171; p. 1138.
Range-cover. E. Melton. No. 1,000,185; Aug. 8; Sp. p. 2061; Gaz. vol. 169; p. 367.
Range-finder. P. Beck. No. 981,968; Jan. 17; Sp. p. 4028; Gaz. vol. 162; p. 673.
Range-finder. A. W. Erdman. No. 983,272; Feb. 7; Sp. p. 24; Gaz. vol. 163; p. 7.
Range-finder. J. Foley. No. 998,765; July 25; Sp. p. 4739; Gaz. vol. 168; p. 857.
Range-finder. P. F. Hambsch. No. 1,001,844; Aug. 29; Sp. p. 5651; Gaz. vol. 169; p. 1035.
Range-finder. P. F. Hambsch. No. 1,001,845; Aug. 29; Sp. p. 5653; Gaz. vol. 169; p. 1035.
Range-finding apparatus. D. W. Adams. No. 1,003,854; Sept. 19; Sp. p. 3616; Gaz. vol. 170; p. 643.
Range, Gas-. M. J. Green. No. 982,205; Jan. 17; Sp. p. 4479; Gaz. vol. 162; p. 751.
Range, Gas-. W. N. Goldhamer. No. 995,451; June 20; Sp. p. 2956; Gaz. vol. 167; p. 527.
Range, Portable cooking-. J. G. A. Kitchen. No. 983,290; Feb. 7; Sp. p. 67; Gaz. vol. 163; p. 13.
Range warming-closet. M. F. Allen. No. 1,011,004; Dec. 5; Sp. p. 1325; Gaz. vol. 173; p. 211.
Rat catching and electrocuting trap. M. Gold. No. 1,012,351; Dec. 19; Sp. p. 4384; Gaz. vol. 173; p. 750.
Rat or mouse trap, Victim-set. F. Brocker, Jr. No. 1,012,801; Dec. 26; Sp. p. 5337; Gaz. vol. 173; p. 950.
Rat-trap. J. A. Beverly. No. 991,128; May 2; Sp. p. 636; Gaz. vol. 166; p. 109.
Rat-trap, Electric. K. Stefán. No. 1,006,887; Oct. 24; Sp. p. 5157; Gaz. vol. 171; p. 906.
Ratchet-brace. G. M. D. Heard. No. 1,011,782; Dec. 12; Sp. p. 3098; Gaz. vol. 173; p. 519.
Ratchet device. M. Luoma. No. 995,615; June 20; Sp. p. 3329; Gaz. vol. 167; p. 586.
Ratchet-head and lever therefor. P. H. Grimm and F. S. Dhooge. No. 987,132; Mar. 21; Sp. p. 2869; Gaz. vol. 164; p. 527.
Ratchet mechanism. G. O. Leopold. No. 982,510; Jan. 24; Sp. p. 5158; Gaz. vol. 162; p. 889.
Ratchet mechanism. F. Thoms. No. 983,463; Feb. 7; Sp. p. 443; Gaz. vol. 163; p. 71.
Ratchet-pawl-releasing mechanism. R. T. Burdette. No. 981,162; Jan. 10; Sp. p. 2246; Gaz. vol. 162; p. 371.
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Ratchet-wrench, Adjustable. M. McCoy. No. 1,000,277; Aug. 8; Sp. p. 2252; Gaz. vol. 169; p. 399.
Rate meter, Variable-. W. H. Pratt. No. 1,003,506; Sept. 19; Sp. p. 2869; Gaz. vol. 170; p. 524.
Razor. J. Barr. No. 981,739; Jan. 17; Sp. p. 3485; Gaz. vol. 162; p. 590.
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Razor and corn-knife, Safety-. F. Perez. No. 1,012,428; Dec. 19; Sp. p. 4526; Gaz. vol. 173; p. 775.
Razor-blade. H. J. Gaisman. No. 1,011,938; Dec. 19; Sp. p. 3468; Gaz. vol. 173; p. 607.
Razor-blade holder. F. J. Bowers. No. 997,110; July 4; Sp. p. 1084; Gaz. vol. 168; p. 176.
Razor-blade holder. H. W. Eden. No. 999,489; Aug. 1; Sp. p. 580; Gaz. vol. 169; p. 101.
Razor-blade holder. T. J. Madigan. No. 1,009,329; Nov. 21; Sp. p. 3807; Gaz. vol. 172; p. 663.
Razor blade, Safety-. O. Kampfe. No. 985,419; Feb. 28; Sp. p. 4689; Gaz. vol. 163; p. 836.
Razor blade, Safety-. A. Alvarez. No. 991,594; May 9; Sp. p. 1656; Gaz. vol. 166; p. 304.
Razor-blade stropper. I. Klein. No. 1,000,923; Aug. 15; Sp. p. 3668; Gaz. vol. 169; p. 658.
Razor-blade-stropping apparatus. F. H. Hoffmann. No. 982,722; Jan. 24; Sp. p. 5575; Gaz. vol. 162; p. 959.
Razor-guard. A. De Padro. No. 1,006,184; Oct. 17; Sp. p. 3557; Gaz. vol. 171; p. 629.
Razor-guard, Safety. B. Deuel. No. 993,658; May 30; Sp. p. 6092; Gaz. vol. 166; p. 1103.
Razor-handle. E. Wiederkehr. No. 988,418; Apr. 4; Sp. p. 276; Gaz. vol. 165; p. 45.
Razor handle, Safety-. L. Schwartz. No. 991,377; May 2; Sp. p. 1180; Gaz. vol. 166; p. 197.
Razor-honing device. W. A. Hammond. No. 992,420; May 16; Sp. p. 3430; Gaz. vol. 166; p. 617.
Razor-honing machine. C. A. Mann. No. 991,865; May 9; Sp. p. 2212; Gaz. vol. 166; p. 395.
Razor, Safety-. L. Brunacci. No. 980,593; Jan. 3; Sp. p. 899; Gaz. vol. 162; p. 145.
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Razor-stiffener. E. Weck. No. 996,382; June 27; Sp. p. 5034; Gaz. vol. 167; p. 886.
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Razor-strop-attaching device. E. James. No. 1,004,171; Sept. 26; Sp. p. 4418; Gaz. vol. 170; p. 781.
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Razor-stropping device. J. A. Harrington. No. 986,564; Mar. 14; Sp. p. 1720; Gaz. vol. 164; p. 304.
Razor-stropping device. S. W. Charles. No. 998,954; July 25; Sp. p. 5177; Gaz. vol. 168; p. 924.
Razor-stropping device. M. F. Coons. No. 1,000,237; Aug. 8; Sp. p. 2165; Gaz. vol. 169; p. 385.
Razor-stropping device. P. J. Martin. No. 1,006,390; Oct. 17; Sp. p. 4020; Gaz. vol. 171; p. 701.
Razor-stropping device, Safety-. O. Kampfe. No. 1,006,949; Oct. 24; Sp. p. 5269; Gaz. vol. 171; p. 927.
Razor-stropping device, Safety-. S. B. Battey. No. 1,007,416; Oct. 31; Sp. p. 6295; Gaz. vol. 171; p. 1144.
Razor-stropping machine. A. Fornander. No. 994,736; June 13; Sp. p. 1399; Gaz. vol. 167; p. 260.
Razor-stropping machine. F. Mitchell. No. 997,575; July 11; Sp. p. 2027; Gaz. vol. 168; p. 362.
Razor-stropping machine. S. Willett. No. 1,003,021; Sept. 12; Sp. p. 1856; Gaz. vol. 170; p. 321.
Razor-stropping mechanism. A. J. Postans. No. 1,010,070; Nov. 28; Sp. p. 5359; Gaz. vol. 172; p. 960.
Razors and similar implements, Guard for. W. K. Bowerman. No. 988,436; Apr. 4; Sp. p. 311; Gaz. vol, 165; p. 51.
Razors, Device for. F. H. Gross. No. 990,858; May 2; Sp. p. 66; Gaz. vol. 166; p. 14.
Reaction-engine. E. R. Gill. No. 999,776; Aug. 8; Sp. p. 1150; Gaz. vol. 169; p. 228.
Reamer. S. M. Stevens. No. 981,492; Jan. 10; Sp. p. 2987; Gaz. vol. 162; p. 485.
Reamer. W. J. Smith. No. 995,102; June 13; Sp. p. 2206; Gaz. vol. 167; p. 383.
Reamer. H. F. Mussler. No. 995,413; June 13; Sp. p. 2863; Gaz. vol. 167; p. 486.
Reamer. C. Sly. No. 1,011,384; Dec. 12; Sp. p. 2216; Gaz. vol. 173; p. 378.
Reamer, Adjustable. H. Walther. No. 1,002,612; Sept. 5; Sp. p. 965; Gaz. vol. 170; p. 143.
Reamer, Expansion-. E. Ferencik. No. 1,000,503; Aug. 15; Sp. p. 2754; Gaz. vol. 169; p. 509.
Reamer, Expansion-. F. O. Jaques, Jr. No. 1,005,223; Oct. 10; Sp. p. 1403; Gaz. vol. 171; p. 257.
Reamer, Pneumatic. J. S. Schofield and J. Swift. No. 997,096; July 4; Sp. p. 1060; Gaz. vol. 168; p. 171.
Reaming-bit. C. M. and J. H. Schwartz. No. 981,227; Jan. 10; Sp. p. 2433; Gaz. vol. 162; p. 394.
Reaming-machine. G. Mateer. No. 1,009,764; Nov. 28; Sp. p. 4730; Gaz. vol. 172; p. 857.
Reaper and thresher, Traveling. A. Hines. No. 989,151; Apr. 11; Sp. p. 1804; Gaz. vol. 165; p. 314.
Reaper, Floating. E. Ferriss. No. 981,183; Jan. 10; Sp. p. 2292; Gaz. vol. 162; p. 379.
Rear sight. W. L. Marble. No. 982,151; Jan. 17; Sp. p. 4383; Gaz. vol. 162; p. 733.
Receipt-form. E. H. Fell. No. 993,769; May 30; Sp. p. 6333; Gaz. vol. 166; p. 1142.
Receipt system. H. A. Aikins. No. 994,234; June 6; Sp. p. 273; Gaz. vol. 167; p. 47.
Receiver-casing. L. Steinberger. No. 988,906; Apr. 4; Sp. p. 1284; Gaz. vol. 165; p. 206.
Receiving apparatus. H. Shoemaker. No. 997,516; July 11; Sp. p. 1895; Gaz. vol. 168; p. 341.
Receiving apparatus. H. Shoemaker. No. 1,009,106; Nov. 21; Sp. p. 3293; Gaz. vol. 172; p. 583.
Receptacle. C. S. Baron and J. F. Haffey. No. 981,239; Jan. 10; Sp. p. 2457; Gaz. vol. 162; p. 399.
Receptacle. M. Gray. No. 983,437; Feb. 7; Sp. p. 382; Gaz. vol. 163; p. 63.
Receptacle. R. Y. Bradshaw. No. 985,106; Feb. 21; Sp. p. 3939; Gaz. vol. 163; p. 696.
Receptacle. A. H. Hewes. No. 991,303; May 2; Sp. p. 1022; Gaz. vol. 166; p. 171.
Receptacle. A. H. S. Swan. No. 991,388; May 2; Sp. p. .1206; Gaz. vol. 166; p. 200.
Receptacle. W. T. McDowell. No. 993,312; May 23; Sp. p. 5297; Gaz. vol. 166; p. 950.
Receptacle. E. H. W. Ullrich. No. 1,010,538; Dec. 5; Sp. p. 304; Gaz. vol. 173; p. 48.
Receptacle and measuring device, Combined. L. Andrews. No. 1,005,130; Oct. 10; Sp. p. 1187; Gaz. vol. 171; p. 223.
Receptacle and support therefor. J. W. Atlee. No. 997,361; July 11; Sp. p. 1611; Gaz. vol. 168; p. 292.
Receptacle-closure. R. Gober. No. 992,653; May 16; Sp. p. 3910; Gaz. vol. 166; p. 697.
Receptacle-closure. S. Reiss. No. 995,720; June 20; Sp. p. 3544; Gaz. vol. 167; p. 624.
Receptacle-closures, Machine for making. A. B. Hines. No. 1,011,787; Dec. 12; Sp. p. 3121; Gaz. vol. 173; p. 521.
Receptacle, Collapsible. D. Heyman. No. 1,002,107; Sept. 12; Sp. p. 2043; Gaz. vol. 170; p. 352.
Receptacle, Commodity-. D. H. Mosteller. No. 997,150; July 4; Sp. p. 1170; Gaz. vol. 168; p. 189.
Receptacle, Compartment-. L. Kubersky and H. Shrock. No. 992,006; May 9; Sp. p. 2488; Gaz. vol. 166; p. 443.
Receptacle-cover. H. A. Gibbs. No. 1,009,234; Nov. 21; Sp. p. 3597; Gaz. vol. 172; p. 628.
Receptacle, Disappearing. J. Germin. No. 992,767; May 23; Sp. p. 4139; Gaz. vol. 166; p. 766.
Receptacle, Fluid-. F. E. Shailor and O. D. Storer. No. 1,006,692; Oct. 24; Sp. p. 4699; Gaz. vol. 171; p. 836.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 993,511; May 30; Sp. p. 5753; Gaz. vol. 166; p. 1051.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 993,512; May 30; Sp. p. 5755; Gaz. vol. 166; p. 1051.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 993,579; May 30; Sp. p. 5898; Gaz. vol. 166; p. 1075.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 993,580; May 30; Sp. p. 5900; Gaz. vol. 166; p. 1075.
Receptacle for containing and discharging semisolid and pasty substances. J. F. Craven. No. 997,182; July 4; Sp. p. 1235; Gaz. vol. 168; p. 200.
Receptacle for holding and dispensing articles. F. W. Shee. No. 1,008,867; Nov. 14; Sp. p. 2768; Gaz. vol. 172; p. 466.
Receptacle for liquids. O. Fröhlich. No. 1,005,531; Oct. 10; Sp. p. 2086; Gaz. vol. 171; p. 367.
Receptacle, Heat-insulated. J. S. Hopkins. No. 1,000,172; Aug. 8; Sp. p. 2027; Gaz. vol. 169; p. 363.
Receptacle holding and carrying device. S. Volz. No. 995,992; June 20; Sp. p. 4125; Gaz. vol. 167; p. 718.
Receptacle, Milk-. M. Janisch. No. 988,102; Mar. 28; Sp. p. 5018; Gaz. vol. 164; p. 890.
Receptacle, Molded. C. R. Rogers. No. 999,523; Aug. 1; Sp. p. 655; Gaz. vol. 169; p. 112.
Receptacle-opening device. J. H. Hotson. No. 1,003,262; Sept. 12; Sp. p. 2376; Gaz. vol. 170; p. 408.
Receptacle, Self-closing. L. C. Van Riper. No. 985,955; Mar. 7; Sp. p. 421; Gaz. vol. 164; p. 68.
Receptacle-ventilator. G. J. Fellman and R. B. Shore. No. 1,008,127; Nov. 7; Sp. p. 1028; Gaz. vol. 172; p. 167.
Receptacles and discharging the contents thereof, Means for unlocking. G. B. Kohler. No. 1,011,815; Dec. 12; Sp. p. 3176; Gaz. vol. 173; p. 531.
Receptacles, Making. C. B. Stilwell. No. 997,717; July 11; Sp. p. 2336; Gaz. vol. 168; p. 412.
Receptacles, Manufacture of vacuum-wall. O. J. W. Higbee. No. 1,004,258; Sept. 26; Sp. p. 4588; Gaz. vol. 170; p. 811.
Receptacles, Manufacturing. W. R. Comings. No. 995,953; June 20; Sp. p. 4052; Gaz. vol. 167; p. 705.
Receptacles, Manufacturing hollow-wall. O. J. W. Higbee. No. 1,004,259; Sept. 26; Sp. p. 4589; Gaz. vol. 170; p. 811.
Reciprocating and rotary press. J. D. McClelland, Jr. No. 995,271; June 13; Sp. p. 2534; Gaz. vol. 167; p. 438.
Reciprocating mechanism. H. H. Ralston. No. 983,399; Feb. 7; Sp. p. 303; Gaz. vol. 163; p. 51.
Record-making device. L. S. Chadwick. No. 1,002,369; Sept. 5; Sp. p. 448; Gaz. vol. 170; p. 62.
Record-receiving elements, Means for holding. C. E. Tomlinson. No. 997,427; July 11; Sp. p. 1725; Gaz. vol. 168; p. 313.
Record-receptacle follower structure. S. T. Walton. No. 990,319; Apr. 25; Sp. p. 4375; Gaz. vol. 165; p. 775.
Records pertaining to car movements, Means for making, collating, and auditing. A. J. Camp. No. 981,245; Jan. 10; Sp. p. 2467; Gaz. vol. 162; p. 401.
Recorder: *See* Dictaphone-recorder; Game-recorder; Music-recorder; Passenger-recorder; Speed-recorder; Telegraph-recorder; Time-recorder; Water-recorder.
Recorder. E. F. Speer. No. 999,412; Aug. 1; Sp. p. 436; Gaz. vol. 169; p. 76.
Recorder. R. S. Blair. No. 1,010,576; Dec. 5; Sp. p. 393; Gaz. vol. 173; p. 62.
Recording and indicating apparatus, Combined. H. Wilson and O. R. Oehmler. No. 991,586; May 9; Sp. p. 1639; Gaz. vol. 166; p. 302.
Recording and indicating gage. H. S. Dolbey and L. E. Michon. No. 983,811; Feb. 7; Sp. p. 1176; Gaz. vol. 163; p. 189.
Recording apparatus. J. A. Olmsted. No. 991,532; May 9; Sp. p. 1502; Gaz. vol. 166; p. 281.
Recording device. W. Hess, Jr. No. 981,421; Jan. 10; Sp. p. 2863; Gaz. vol. 162; p. 462.
Recording device. E. S. Cole. No. 993,437; May 30; Sp. p. 5595; Gaz. vol. 166; p. 1026.
Recording device. T. M. Foote. No. 997,983; July 18; Sp. p. 2981; Gaz. vol. 168; p. 547.
Recording device. G. F. Card. No. 1,000,989; Aug. 22; Sp. p. 3853; Gaz. vol. 169; p. 714.
Recording, filing, and account-keeping system. H. H. Graff. No. 1,010,895; Dec. 5; Sp. p. 1101; Gaz. vol. 173; p. 173.
Recording-indicator. J. L. Zander. No. 993,935; May 30; Sp. p. 6641; Gaz. vol. 166; p. 1196.
Recording instrument, Graphic. R. C. Lanphier. No. 992,010; May 9; Sp. p. 2494; Gaz. vol. 166; p. 444.
Recording instruments, Stylus for graphic. H. W. Young. No. 1,008,100; Nov. 7; Sp. p. 977; Gaz. vol. 172; p. 157.
Recording mechanism. T. M. Foote. No. 986,159; Mar. 7; Sp. p. 830; Gaz. vol. 164; p. 135.
Recreative apparatus of the switchback or like type. A. W. Lavarack and H. Greenwood. No. 1,009,076; Nov. 21; Sp. p. 3229; Gaz. vol. 172; p. 572.

Alphabetical list of inventions—Continued.

Rectifier system. A. Churchward. No. 996,975; July 4; Sp. p. 787; Gaz. vol. 168; p. 129.
Rectifier, Vibrating. E. Thomson. No. 1,011,526; Dec. 12; Sp. p. 2537; Gaz. vol. 173; p. 430.
Rectifiers and rotary converters, Apparatus for automatic regulation of. F. B. Crocker. No. 1,012,524; Dec. 19; Sp. p. 4704; Gaz. vol. 173; p. 808.
Rectifying-column. F. Kyll. No. 999,320; Aug. 1; Sp. p. 239; Gaz. vol. 169; p. 45.
Reducing agents, Manufacture of. A. Ashworth. No. 997,534; July 11; Sp. p. 1940; Gaz. vol. 168; p. 348.
Reduction-furnace. E. H. Rothert. No. 1,007,606; Oct. 31; Sp. p. 6716; Gaz. vol. 171; p. 1209.
Reduction system. A. J. Morlock. No. 992,027; May 9; Sp. p. 2525; Gaz. vol. 166; p. 449.
Reed. H. Coté. No. 990,528; Apr. 25; Sp. p. 4867; Gaz. vol. 165; p. 849.
Reel: *See* Automatic reel; Bass-reel; Binder-reel; Calf-wheel reel; Chalk-line reel; Clothes-reel; Clothes-line reel; Compound reel; Eyeglass-chain reel; Fire-hose reel; Fishing-reel; Fishpole-reel; Harvester-reel; Hose-reel; Picture-film reel; Traction-reel; Winding-reel; Wire-reel.
Reel. H. L. Youngren. No. 983,795; Feb. 7; Sp. p. 1151; Gaz. vol. 163; p. 184.
Reel. E. V. Sanders. No. 996,527; June 27; Sp. p. 5333; Gaz. vol. 167; p. 934.
Reel. A. F. Rietzel. No. 996,885; July 4; Sp. p. 592; Gaz. vol. 168; p. 97.
Reel. H. Hall. No. 1,007,443; Oct. 31; Sp. p. 6354; Gaz. vol. 171; p. 1154.
Reel and reel-mounting. W. S. Ireland. No. 980,279; Jan. 3; Sp. p. 190; Gaz. vol. 162; p. 37.
Reel for electric cables, &c. D. J. Jorden. No. 990,987; May 2; Sp. p. 338; Gaz. vol. 166; p. 58.
Reel-holder. J. P. Weaver. No. 984,627; Feb. 21; Sp. p. 2999; Gaz. vol. 163; p. 532.
Reel-holder. J. P. Weaver. No. 990,176; Apr. 18; Sp. p. 4022; Gaz. vol. 165; p. 693.
Reel or winding-machine. A. Skofsrud. No. 992,692; May 16; Sp. p. 3983; Gaz. vol. 166; p. 710.
Reel-support. L. A. Casgrain. No. 1,001,815; Aug. 29; Sp. p. 5587; Gaz. vol. 169; p. 1025.
Reeled merchandise, Holding device for. P. Gardner. No. 1,000,676; Aug 15; Sp. p. 3157; Gaz. vol. 169; p. 572.
Reeled merchandise, Holding device for. P. Gardner. No. 1,001,838; Aug. 29; Sp. p. 5642; Gaz. vol. 169; p. 1033.
Reeling apparatus. C. R. Uebelmesser. No. 989,736; Apr. 18; Sp. p. 3095; Gaz. vol. 165; p. 544.
Reeling apparatus. E. I. and E. B. Olinger. No. 1,010,517; Dec. 5; Sp. p. 268; Gaz. vol. 173; p. 42.
Reflecting fixture or chandelier. W. H. Spencer. No. 990,400; Apr. 25; Sp. p. 4561; Gaz. vol. 165; p. 805.
Reflector. P. Kleber. No. 983,241; Jan. 31; Sp. p. 6699; Gaz. vol. 162; p. 1162.
Reflector. L. A. Sagendorph. No. 988,824; Apr. 4; Sp. p. 1138; Gaz. vol. 165; p. 182.
Reflector. E. W. Utzler. No. 995,739; June 20; Sp. p. 3595; Gaz. vol. 167; p. 631.
Reflector. W. Haehnel. No. 1,008,902; Nov. 14; Sp. p. 2839; Gaz. vol. 172; p. 478.
Reflector. J. J. H. Mohr. No. 1,009,434; Nov. 21; Sp. p. 4068; Gaz. vol. 172; p. 701.
Reflector and search-light. S. L. Lebby. No. 981,290; Jan. 10; Sp. p. 2556; Gaz. vol. 162; p. 417.
Reflector, Automobile-lamp. P. C. Avery. No. 986,668; Mar. 14; Sp. p. 1940; Gaz. vol. 164; p. 342.
Reflector, Detachable lamp-guard. H. Hubbell. No. 1,012,554; Dec. 19; Sp. p. 4772; Gaz. vol. 173; p. 819.
Reflector for artificial lights, Prism-glass. O. A. Mygatt. No. 988,488; Apr. 4; Sp. p. 419; Gaz. vol. 165; p. 68.
Reflector for light-rays, Composite. O. A. Mygatt. (Reissue.) No. 13,293; Sept. 26; Sp. p. 5174; Gaz. vol. 170; p. 909.
Reflector for search-lights and the like. C. A. Parsons. G. G. Stoney, and E. Bennett. No. 992,043; May 9; Sp. p. 2558; Gaz. vol. 166; p. 455.
Reflector-holder, Adjustable. G. Loring. No. 1,007,122; Oct. 31; Sp. p. 5661; Gaz. vol. 171; p. 1039.
Reflector or shade for gas-lights, Adjustable. N. Macbeth. No. 1,002,593; Sept. 5; Sp. p. 918; Gaz. vol. 170; p. 137.
Reflector-socket. R. B. Benjamin. No. 981,240; Jan. 10; Sp. p. 2458; Gaz. vol. 162; p. 399.
Reflector, Ventilated. J. Meyer. No. 1,008,661; Nov. 14; Sp. p. 2346; Gaz. vol. 172; p. 396.
Refractory material. H. A. D. Collins. No. 982,252; Jan. 24; Sp. p. 4590; Gaz. vol. 162; p. 797.
Refractory materials, Apparatus for the treatment of. E. Weintraub. No. 997,881; July 11; Sp. p. 2738; Gaz. vol. 168; p. 469.
Refractory materials, Treatment of. E. Weintraub. No. 997,879; July 11; Sp. p. 2733; Gaz. vol. 168; p. 469.
Refractory materials, Treatment of. E. Weintraub. No. 997,880; July 11; Sp. p. 2736; Gaz. vol. 168; p. 469.
Refractory materials, Treatment of. E. Weintraub. No. 997,883; July 11; Sp. p. 2742; Gaz. vol. 168; p. 470.
Refrigerated counter. E. Carpenter. No. 1,011,407; Dec. 12; Sp. p. 2260; Gaz. vol. 173; p. 385.
Refrigerating apparatus. E. Dettmar. No. 1,000,723; Aug. 15; Sp. p. 3253; Gaz. vol. 169; p. 588.
Refrigerating apparatus, Compressor for. G. W. Miller. No. 1,011,226; Dec. 12; Sp. p. 1863; Gaz. vol. 173; p. 322.
Refrigerating device. M. E. Stover. No. 982,192; Jan. 17; Sp. p. 4459; Gaz. vol. 162; p. 747.
Refrigerating device. R. V. Heuser. No. 992,560; May 16; Sp. p. 3727; Gaz. vol. 166; p. 667.
Refrigerating device. W. R. Gardner. No. 1,006,475; Oct. 24; Sp. p. 4223; Gaz. vol. 171; p. 760.
Refrigerating-machine. M. Leblanc No. 1,005,851; Oct. 17; Sp. p. 2811; Gaz. vol. 171; p. 511.
Refrigerating-machines, Absorber for ammonia-absorption. O. Lindemann. No. 983,731; Feb. 7; Sp. p. 1015; Gaz. vol. 163; p. 162.
Refrigerating structures, Means for cooling the interior of, N. F. Anderson. No. 1,001,574; Aug. 22; Sp. p. 5054; Gaz. vol. 169; p. 911.
Refrigerating system. A. T. Marshall. No. 1,001,664; Aug. 29; Sp. p. 5258; Gaz. vol. 169; p. 973.
Refrigerating systems, Automatic controlling mechanism for. E. Carpenter and F. M. Kimball. No. 981,840; Jan. 17; Sp. p. 3711; Gaz. vol. 162; p. 628.
Refrigerating systems, Automatic controlling mechanism for. E. Carpenter and F. M. Kimball. No. 982,794; Jan. 31; Sp. p. 5745; Gaz. vol. 162; p. 1013.
Refrigerating systems, Automatic regulation of the evaporating pressure in. E. T. Winkler. No. 985,563; Feb. 28; Sp. p. 5015; Gaz. vol. 163; p. 888.
Refrigerating systems, Automatic regulator for. F. A. Pollard. No. 990,772; Apr. 25; Sp. p. 5402; Gaz. vol. 165; p. 932.
Refrigerator. W. G. Wilson. No. 980,724; Jan. 3; Sp. p. 1180; Gaz. vol. 162; p. 188.
Refrigerator. W. G. Wilson. No. 981,148; Jan. 10; Sp. p. 2221; Gaz. vol. 162; p. 366.
Refrigerator. F. V. Detwiler. No. 981,539; Jan. 10; Sp. p. 3076; Gaz. vol. 162; p. 502.
Refrigerator. J. J. Baker. No. 981,967; Jan. 17; Sp. p. 4027; Gaz. vol. 162; p. 672.
Refrigerator. G. Q. Hammell. No. 982,056; Jan. 17; Sp. p. 4212; Gaz. vol. 162; p. 701.
Refrigerator. J. Thalheim. No. 982,313; Jan. 24; Sp. p. 4741; Gaz. vol. 162; p. 819.
Refrigerator. J. H. Dagg. No. 983,124; Jan. 31; Sp. p. 6465; Gaz. vol. 162; p. 1124.
Refrigerator. W. M. Strother. No. 984,714; Feb. 21; Sp. p. 3186; Gaz. vol. 163; p. 564.
Refrigerator. U. S. Meeks. No. 984,835; Feb. 21; Sp. p. 3431; Gaz. vol. 163; p. 605.
Refrigerator. A. C. Connor. No. 985,323; Feb. 28; Sp. p. 4476; Gaz. vol. 163; p. 805.
Refrigerator. F. F. Schafer. No. 985,458; Feb. 28; Sp. p. 4788; Gaz. vol. 163; p. 851.
Refrigerator. E. W. Shirk. No. 986,770; Mar. 14; Sp. p. 2151; Gaz. vol. 164; p. 374.
Refrigerator. H. Pries. No. 986,859; Mar. 14; Sp. p. 2340; Gaz. vol. 164; p. 405.
Refrigerator. R. E. Joyce. No. 988,269; Mar. 28; Sp. p. 5331; Gaz. vol. 164; p. 943.
Refrigerator. O. Philippi. No. 988,895; Apr. 4; Sp. p. 1268; Gaz. vol. 165; p. 203.
Refrigerator. W. N. Amsbary. No. 990,182; Apr. 18; Sp. p. 4033; Gaz. vol. 165; p. 695.
Refrigerator. G. A. Ickes. No. 994,163; June 6; Sp. p. 123; Gaz. vol. 167; p. 22.
Refrigerator. F. E. Bosworth. No. 994,242; June 6; Sp. p. 295; Gaz. vol. 167; p. 50.
Refrigerator. S. T. Baer. No. 995,052; June 13; Sp. p. 2114; Gaz. vol. 167; p. 367.
Refrigerator. C. D. Stoll. No. 995,495; June 20; Sp. p. 3050; Gaz. vol. 167; p. 544.
Refrigerator. D. O. Franklin. No. 996,232; June 27; Sp. p. 4679; Gaz. vol. 167; p. 834.
Refrigerator. T. M. Lawrence and F. Snadon. No. 996,417; June 27; Sp. p. 5132; Gaz. vol. 167; p. 898.
Refrigerator. J. F. Webb. No. 998,434; July 18; Sp. p. 3995; Gaz. vol. 168; p. 708.
Refrigerator. J. F. Webb. No. 998,560; July 18; Sp. p. 4237; Gaz. vol. 168; p. 751.
Refrigerator. W. A. Chase. No. 1,001,505; Aug. 22; Sp. p. 4914; Gaz. vol. 169; p. 888.
Refrigerator. H. N. Holcomb. No. 1,001,524; Aug. 22; Sp. p. 4949; Gaz. vol. 169; p. 894.
Refrigerator. F. M. Smith. No. 1,005,343; Oct. 10; Sp. p. 1691; Gaz. vol. 171; p. 302.
Refrigerator. W. R. Jennison. No. 1,007,702; Nov. 7; Sp. p. 110; Gaz. vol. 172; p. 17.
Refrigerator. A. E. Brooks. No. 1,012,513; Dec. 19; Sp. p. 4682; Gaz. vol. 173; p. 804.
Refrigerator and display-case, Combined. G. J. Gruendler. No. 998,170; July 18; Sp. p. 3399; Gaz. vol. 168; p. 613.
Refrigerator and water-cooler. W. A. Stephenson. No. 980,697; Jan. 3; Sp. p. 1124; Gaz. vol. 162; p. 180.
Refrigerator-can. A. J. Phipps. No. 989,287; Apr. 11; Sp. p. 2113; Gaz. vol. 165; p. 360.
Refrigerator-car. A. G. Brown. No. 982,571; Jan. 24; Sp. p. 5271; Gaz. vol. 162; p. 909.
Refrigerator-car. F. Thompson. No. 993,909; May 30; Sp. p. 6591; Gaz. vol. 166; p. 1188.
Refrigerator-car. G. C. Bohn. No. 1,001,341; Aug. 22; Sp. p. 4616; Gaz. vol. 169; p. 834.

Alphabetical list of inventions—Continued.

Refrigerator-car. H. Pries. No. 1,007,485; Oct. 31; Sp. p. 6434; Gaz. vol. 171; p. 1168.
Refrigerator-car-door-fastening mechanism. J. F. O'Connor. No. 982,086; Jan. 17; Sp. p. 4271; Gaz. vol. 162; p. 711.
Refrigerator-car-door-fastening mechanism. J. F. O'Connor. No. 982,087; Jan. 17; Sp. p. 4273; Gaz. vol. 162; p. 712.
Refrigerator-car-door packing, Backing-strip for. W. H. Miner. No. 992,793; May 23; Sp. p. 4196; Gaz. vol. 166; p. 775.
Refrigerator-compartment. E. Richardson. No. 992,253; May 16; Sp. p. 3058; Gaz. vol. 166; p. 558.
Refrigerator-counter. J. B. Monette. No. 985,620; Feb. 28; Sp. p. 5134; Gaz. vol. 163; p. 907.
Refrigerator-door. C. H. Boeck. No. 1,000,963; Aug. 15; Sp. p. 3756; Gaz. vol. 169; p. 671.
Refrigerator-door, Auxiliary. F. Schmidgall and H. Kornmann. No. 1,012,103; Dec. 19; Sp. p. 3849; Gaz. vol. 173; p. 666.
Refrigerator-drain. M. F. Salmini. No. 1,004,913; Oct. 3; Sp. p. 804; Gaz. vol. 171; p. 129.
Refrigerator-drain-pipe cleaner. H. G. Douglass. No. 986,370; Mar. 7; Sp. p. 1292; Gaz. vol. 164; p. 209.
Refrigerator-lining. W. H. Whittier. No. 984,873; Feb. 21; Sp. p. 3496; Gaz. vol. 163; p. 618.
Refrigerator-lining. E. Richardson. No. 997,210; July 4; Sp. p. 1291; Gaz. vol. 168; p. 210.
Refrigerator-lining. H. C. Leonard. No. 1,010,649; Dec. 5; Sp. p. 552; Gaz. vol. 173; p. 88.
Refrigerator-linings and other purposes, Mold for. J. M. Thompson. No. 1,005,364; Oct. 10; Sp. p. 1737; Gaz. vol. 171; p. 310.
Refrigerator, Oyster-shipping. C. E. Linkie. No. 982,837; Jan. 31; Sp. p. 5834; Gaz. vol. 162; p. 1027.
Refrigerator, Shipping-. E. E. Flora. No. 996,917; July 4; Sp. p. 661; Gaz. vol. 168; p. 108.
Refrigerator, Show-case. A. W. De Neen. No. 999,704; Aug. 1; Sp. p. 992; Gaz. vol. 169; p. 173.
Refrigerator-trap. G. C. Bohn. No. 989,559; Apr. 18; Sp. p. 2719; Gaz. vol. 165; p. 485.
Refrigerator track-door. H. C. Ahrens. No. 1,012,576; Dec. 26; Sp. p. 4831; Gaz. vol. 173; p. 871.
Refrigerator, Vacuum-. P. A. Bayless. No. 986,673; Mar. 14; Sp. p. 1946; Gaz. vol. 164; p. 343.
Refrigerator, Window-. T. W. Barry. No. 980,397; Jan. 3; Sp. p. 446; Gaz. vol. 162; p. 77.
Refrigerators, Ice-protector for. J. F. Earnshaw. No. 992,761; May 23; Sp. p. 4131; Gaz. vol. 166; p. 764.
Refuse, Apparatus for the removal of household or other. F. Dassy. No. 1,005,168; Oct. 10; Sp. p. 1272; Gaz. vol. 171; p. 237.
Refuse-box. C. A. Raggio. No. 993,794; May 30; Sp. p. 6379; Gaz. vol. 166; p. 1150.
Refuse-burner. J. R. Fortune and H. S. Wells. No. 981,254; Jan. 10; Sp p. 2488; Gaz. vol. 162; p. 404.
Refuse-burning furnace. J. A. Fried. No. 1,002,575; Sept. 5; Sp. p. 881; Gaz. vol. 170; p. 130.
Refuse-destructor. F. P. Rudder. No. 986,594; Mar. 14; Sp. p. 1781; Gaz. vol. 164; p. 315.
Refuse-destructors, Apparatus for discharging dust-carts into the furnaces of. J. Ochsner. No. 985,830; Mar. 7; Sp. p. 137; Gaz. vol. 164; p. 25.
Refuse-disposal device. C. H. Stephenson. No. 1,011,874; Dec. 12; Sp. p. 3302; Gaz. vol. 173; p. 549.
Regenerator. S. A. Moss. No. 1,000,969; Aug. 15; Sp. p. 3770; Gaz. vol. 169; p. 673.
Regenerator. S. G. Poché. No. 1,004,901; Oct. 3; Sp. p. 779; Gaz. vol. 171; p. 125.
Register: *See* Account-register; Adding-machine register; Autographic register; Car-register; Car-step register; Cartridge-register; Cash-register; Fare-register; Game-register; Hot-air register; Hotel-register; Lumber-register; Measurement-register; Name-register; Oil-register; Passenger-register; Pool-register; Pool and billiard table register; Power-register; Scale-register; Street-register; Telegraph-register; Type-writer word-register; Wall-register; Warm-air register.
Register. A. Lusuardi. No. 984,436; Feb. 14; Sp. p. 2541; Gaz. vol. 163; p. 430.
Register. J. S. Beatty. No. 991,821; May 9; Sp. p. 2138; Gaz. vol. 166; p. 380.
Register. P. F. Larkin. No. 1,000,181; Aug. 8; Sp. p. 2055; Gaz. vol. 169; p. 366.
Register. C. H. Veeder. No. 1,000,860; Aug. 15; Sp. p. 3539; Gaz. vol. 169; p. 636.
Register. G. E. Osborn. No. 1,002,175; Aug. 29; Sp. p. 6324; Gaz. vol. 169; p. 1143.
Register and recorder. W. I. Ohmer, D. B. Whistler, and J. E. McAllister. No. 990,666; Apr. 25; Sp. p. 5163; Gaz. vol. 165; p. 895.
Register box or head, Adjustable. J. Pfeffer. No. 1,007,309; Oct. 31; Sp. p. 6064; Gaz. vol. 171; p. 1106.
Register-grates for the purpose of regulating the uptake-draft, Attachment for. H. C. Abbott. No. 1,009,619; Nov. 21; Sp. p. 4418; Gaz. vol. 172; p. 761.
Register-operating mechanism. W. I. Ohmer, D. B. Whistler, and J. E. McAllister. No. 999,848; Aug. 8; Sp. p. 1289; Gaz. vol. 169; p. 251.
Register-operating mechanism. W. I. Ohmer, D. B. Whistler, and J. E. McAllister. No. 1,000,542; Aug. 15; Sp. p. 2843; Gaz. vol. 169; p. 523.
Register or recording system. W. E. Hosch. No. 1,012,855; Dec. 26; Sp. p. 5472; Gaz. vol. 173; p. 968.
Registering and counting machine. C. A. Pletz. No. 994,602; June 6; Sp. p. 1035; Gaz. vol. 167; p. 173.
Registering and denoting device and label-holder, Combined. W. Parten. No. 1,012,905; Dec. 26; Sp. p. 5577; Gaz. vol. 173; p. 984.
Registering and indicating apparatus. A. McNab. No. 1,010,662; Dec. 5; Sp. p. 575; Gaz. vol. 173; p. 92.
Registering mechanism. C. H. Eimerbrink. No. 1,009,959; Nov. 28; Sp. p. 5115; Gaz. vol. 172; p. 922.
Registering mechanism for folding-machines, &c. C. A. Sturtevant. No. 981,137; Jan. 10; Sp. p. 2197; Gaz. vol. 162; p. 362.
Registering system and apparatus. N. H. Holland. No. 987,364; Mar. 21; Sp. p. 3384; Gaz. vol. 164; p. 608.
Regulating device. E. A. Wagner. No. 1,010,990; Dec. 5; Sp. p. 1298; Gaz. vol. 173; p. 206.
Regulator: *See* Alarm-regulator; Automatic regulator; Battery-regulator; Blast-regulator; Boiler-pressure regulator; Clutch-regulator; Concrete-mixer feed-regulator; Controller-regulator; Current-regulator; Damper-regulator; Draft-regulator; Electric regulator; Engine-regulator; Engine speed-regulator; Feed-regulator; Feed-water regulator; Fluid-regulator; Fluid-compressor regulator; Fluid-pressure regulator; Furnace-regulator; Furnace draft-regulator; Gas-regulator; Gas-burner regulator; Gas-pressure regulator; Gas-works regulator; Heater-regulator; Humidity-regulator; Ignition-regulator; Incubator-heater regulator; Incubator-temperature regulator; Lamp-regulator; Liquid-regulator; Motor speed-regulator; Oil-regulator; Player tempo-regulator; Pressure-regulator; Pump-regulator; Speed-regulator; Spring-tension regulator; Steam-regulator; Stove-regulator; Temperature-regulator; Tension-regulator; Time-regulator; Valve-regulator; Voltage-regulator; Water-regulator; Water-level regulator; Windmill-regulator.
Regulator. J. C. Barry. No. 1,003,416; Sept. 19; Sp. p. 2676; Gaz. vol. 170; p. 492.
Rein-guide. S. E. Weaver. No. 1,003,678; Sept. 19; Sp. p. 3248; Gaz. vol. 170; p. 580.
Rein-holder. N. A. Archibald. No. 986,890; Mar. 14; Sp. p. 2421; Gaz. vol. 164; p. 418.
Rein-holder. C. W. Davis. No. 998,473; July 18; Sp. p. 4072; Gaz. vol. 168; p. 722.
Rein-holder. J. F. Guion. No. 998,505; July 18; Sp. p. 4132; Gaz. vol. 168; p. 732.
Rein-holder. S. M. Lutz. No. 1,011,457; Dec. 12; Sp. p. 2364; Gaz. vol. 173; p. 404.
Rein-holder and whip-socket. C. I. Denner. No. 986,146; Mar. 7; Sp. p. 809; Gaz. vol. 164; p. 131.
Reins. E. C. Eubysk. No. 1,009,057; Nov. 21; Sp. p. 3196; Gaz. vol. 172; p. 566.
Reins, Driving-. D. B. Potter. No. 1,012,009; Dec. 19; Sp. p. 3632; Gaz. vol. 173; p. 633.
Reinforced strap. S. T. Roberts. No. 993,274; May 23; Sp. p. 5228; Gaz. vol. 166; p. 938.
Reinforcing-frame. G. M. Graham. No. 1,013,009; Dec. 26; Sp. p. 5830; Gaz. vol. 173, p. 1019.
Reinforcing member. J. F. Loucks. No. 993,851; May 30; Sp. p. 6495; Gaz. vol. 166; p. 1170.
Relasting-machine. J. C. Schelter. No. 981,800; Jan. 17; Sp. p. 3605; Gaz. vol. 162; p. 612.
Relay. W. B. Rice. No. 985,705; Feb. 28; Sp. p. 5348; Gaz. vol. 163; p. 937.
Relay. J. B. Struble. No. 988,955; Apr. 4; Sp. p. 1384; Gaz. vol. 165; p. 223.
Relay. C. G. Ashley. No. 990,183; Apr 18; Sp. p. 4036; Gaz. vol. 165; p. 695.
Relay. P. Utne. No. 991,117; May 2; Sp. p. 615; Gaz. vol. 166; p. 105.
Relay. W. V. Moak. No. 996,874; July 4; Sp. p. 569; Gaz. vol. 168; p. 94.
Relay. A. L. Townsend. No. 1,006,703; Oct. 24; Sp. p. 4713; Gaz. vol. 171; p. 840.
Relay. W. K. Howe. No. 1,012,079; Dec. 19; Sp. p. 3794; Gaz. vol. 173; p. 657.
Relay, Alternating-current. J. F. D. Hoge. No. 1,006,089; Oct. 17; Sp. p. 3323; Gaz. vol. 171; p. 593.
Relay, Alternating-current. J. F. D. Hoge. No. 1,006,090; Oct. 17; Sp. p. 3327; Gaz. vol. 171; p. 594.
Relay, Alternating-current. J. F. D. Hoge. No. 1,006,091; Oct. 17; Sp. p. 3331; Gaz. vol. 171; p. 594.
Relay apparatus, Cable-. I. Kitsee. No. 1,011,210; Dec. 12; Sp. p. 1818; Gaz. vol. 173; p. 316.
Relay contact. F. B. Corey. No. 1,002,648; Sept. 5; Sp. p. 1037; Gaz. vol. 170; p. 155.
Relay-contact movement. W. K. Howe. No. 1,012,081; Dec. 19; Sp. p. 3799; Gaz. vol. 173; p. 658.
Relay, Electric. L. J. Le Pontois. No. 1,000,939; Aug. 15; Sp. p. 3706; Gaz. vol. 169; p. 664.
Relay, Electrical. C. O. Poor. No. 986,643; Mar. 14; Sp. p. 1890; Gaz. vol. 164; p. 334.
Relay, Electrical. E. E. Clement. No. 990,032; Apr. 18; Sp. p. 3732; Gaz. vol. 165; p. 646.
Relay, Electrical. E. E. Clement. No. 991,829; May 9; Sp. p. 2150; Gaz. vol. 166; p. 383.

Alphabetical list of inventions—Continued.

Relay, Time-limit. A. B. Reynders. No. 995,184; June 13; Sp. p. 2365; Gaz. vol. 167; p. 410.
Relays, Means for correcting sensitive. I. Kitsee. No. 988,877; Apr. 4; Sp. p. 1234; Gaz. vol. 165; p. 197.
Releasing device. E. D. Chadwick. No. 1,000,895; Aug. 15; Sp. p. 3609; Gaz. vol. 169; p. 649.
Releasing device. G. H. W. Doose. No. 1,005,615; Oct. 10; Sp. p. 2306; Gaz. vol. 171; p. 397.
Releasing device for loaders and the like. R. H. Smith. No. 990,916; May 2; Sp. p. 189; Gaz. vol. 166; p. 34.
Releasing device, Time-actuated. J. P. Tonsor. No. 1,004,827; Oct. 3; Sp. p. 597; Gaz. vol. 171; p. 98.
Releasing-hook. C. D. Rees. No. 984,852; Feb. 21; Sp. p. 3457; Gaz. vol. 163; p. 611.
Releasing-hook. R. A. Gaertner. No. 1,008,024; Nov. 7; Sp. p. 818; Gaz. vol. 172; p. 130.
Relishing and boring and grooving machine, Combined. J. H. Burke. No. 985,248; Feb. 28; Sp. p. 4315; Gaz. vol. 163; p. 780.
Rendering apparatus. C. E. Ord. No. 980,665; Jan. 3; Sp. p. 1065; Gaz. vol. 162; p. 169.
Repair-sheet. T. Whilde. No. 991,256; May 2; Sp. p. 913; Gaz. vol. 166; p. 155.
Repository. W. O. Berkeley. No. 998,742; July 25; Sp. p. 4692; Gaz. vol. 168; p. 849.
Reproducing and imitating machine. B. O. Fanslow. No. 989,239; Apr. 11; Sp. p. 1996; Gaz. vol. 165; p. 343.
Reproducing apparatus, Device for controlling the operation of two. F. E. Thormeyer. No. 989,207; Apr. 11; Sp. p. 1918; Gaz. vol. 165; p. 332.
Rerailing-frog. J. L. Nicolai. No. 1,007,961; Nov. 7; Sp. p. 705; Gaz. vol. 172; p. 109.
Resaw, Band-. B. D. Stevens. No. 1,010,701; Dec. 5; Sp. p. 661; Gaz. vol. 173; p. 106.
Resawing-machine. W. R. Wilkin. No. 999,475; Aug. 1; Sp. p. 549; Gaz. vol. 169; p. 97.
Resilient connection. J. K. Putnam. No. 1,002,448; Sept. 5; Sp. p. 609; Gaz. vol. 170; p. 87.
Resilient-tread wheel. J. B. Adams. No. 980,855; Jan. 3; Sp. p. 1440; Gaz. vol. 162; p. 231.
Resilient wheel. H. R. Ellis. No. 980,226; Jan. 3; Sp. p. 96; Gaz. vol. 162; p. 19.
Resilient wheel. P. Savoia. No. 981,124; Jan. 10; Sp. p. 2170; Gaz. vol. 162; p. 357.
Resilient wheel. O. H. Anderson. No. 981,515; Jan. 10; Sp. p. 3031; Gaz. vol. 162; p. 493.
Resilient wheel. R. R. Hage. No. 986,563; Mar. 14; Sp. p. 1718; Gaz. vol. 164; p. 304.
Resilient wheel. E. S. Shanklin. No. 986,948; Mar. 14; Sp. p. 2524; Gaz. vol. 164; p. 436.
Resilient wheel. W. Besler. No. 987,340; Mar. 21; Sp. p. 3344; Gaz. vol. 164; p. 600.
Resilient wheel. A. B. Clifford. No. 989,567; Apr. 18; Sp. p. 2731; Gaz. vol. 165; p. 487.
Resilient wheel. C. P. Funk. No. 989,701; Apr. 18; Sp. p. 3021; Gaz. vol. 165; p. 532.
Resilient wheel. W. J. Smith. No. 990,788; Apr. 25; Sp. p. 5445; Gaz. vol. 165; p. 937.
Resilient wheel. W. J. Smith. No. 990,789; Apr. 25; Sp. p. 5447; Gaz. vol. 165; p. 937.
Resilient wheel. S. S. Williams. No. 991,923; May 9; Sp. p. 2336; Gaz. vol. 166: p. 415.
Resilient wheel. H. Labre. No. 992,213; May 16; Sp. p. 2928; Gaz. vol. 166; p. 544.
Resilient wheel. S. L. Simpson. No. 993,802; May 30; Sp. p. 6395; Gaz. vol. 166; p. 1153.
Resilient wheel. J. C. Matheson. No. 994,174; June 6; Sp. p. 147; Gaz. vol. 167; p. 26.
Resilient wheel. W. F. Masters. No. 994,684; June 6; Sp. p. 1234; Gaz. vol. 167; p. 201.
Resilient wheel. A. A. Curry. No. 996,838; July 4; Sp. p. 484; Gaz. vol. 168; p. 80.
Resilient wheel. C. A. Langford. No. 997,302; July 11; Sp. p. 1490; Gaz. vol. 168; p. 272.
Resilient wheel. G. R. Gay and J. C. Streibich. No. 997,549; July 11; Sp. p. 1968; Gaz. vol. 168; p. 352.
Resilient wheel. W. W. Rhame and S. H. Nuckolls. No. 998,636; July 25; Sp. p. 4434; Gaz. vol. 168; p. 811.
Resilient wheel. V. E. Clark. No. 999,960; Aug. 8; Sp. p. 1540; Gaz. vol. 169; p. 291.
Resilient wheel. P. Decauville. No. 1,001,513; Aug. 22; Sp. p. 4933; Gaz. vol. 169; p. 891.
Resilient wheel. G. Restucci. No. 1,001,686; Aug. 29; Sp. p. 5313; Gaz. vol. 169; p. 981.
Resilient wheel. E. A. Wall. No. 1,001,714; Aug. 29; Sp. p. 5371; Gaz. vol. 169; p. 991.
Resilient wheel. W. H. H. Morelock. No. 1,003,775; Sept. 19; Sp. p. 3473; Gaz. vol. 170; p. 617.
Resilient wheel. V. Gil-Delgado y Olazabal. No. 1,005,021; Oct. 3; Sp. p. 989; Gaz. vol. 171; p. 165.
Resilient wheel. J. S. Gammon. No. 1,007,087; Oct. 31; Sp. p. 5580; Gaz. vol. 171; p. 1026.
Resilient wheel. F. Morris. No. 1,007,375; Oct. 31; Sp. p. 6200; Gaz. vol. 171; p. 1130.
Resilient wheel. A. D. Wack. No. 1,007,993; Nov. 7; Sp. p. 759; Gaz. vol. 172; p. 120.
Resilient wheel. I. Jay. No. 1,009,314; Nov. 21; Sp. p. 3768; Gaz. vol. 172; p. 657.
Resilient wheel. J. A. Suddarth. No. 1,011,091; Dec. 5; Sp. p. 1523; Gaz. vol. 173; p. 240.
Resilient wheel. J. Vollman. No. 1,011,679; Dec. 12; Sp. p. 2898; Gaz. vol. 173; p. 484.
Resilient wheel for vehicles. C. A. Chertemps. No. 998,748; July 25; Sp. p. 4703; Gaz. vol. 168; p. 851.
Resilient wheel for vehicles. C. G. Capwell. No. 998,953; July 25; Sp. p. 5172; Gaz. vol. 168; p. 923.
Resins and manufacturing same, Solution of. A. Hesse. No. 1,003,741; Sept. 19; Sp. p. 3398; Gaz. vol. 170; p. 606.
Resistance-box. L. A. De Mayo. No. 1,002,533; Sept. 5; Sp. p. 793; Gaz. vol. 170; p. 115.
Resistance compound. W. E. Gardner. No. 991,841; May 9; Sp. p. 2171; Gaz. vol. 166; p. 387.
Resistance-furnace. W. D. Coolidge. No. 1,004,557; Oct. 3; Sp. p. 14; Gaz. vol. 171; p. 5.
Resistance, Reinforced grid. H. J. Wiegand. No. 982,557; Jan. 24; Sp. p. 5250; Gaz. vol. 162; p. 905.
Resistance unit. C. D. Knight, P. H. Zimmer, and J. B. Ford. No. 1,010,641; Dec. 5; Sp. p. 539; Gaz. vol. 173; p. 85.
Resistance unit. W. J. Lloyd. No. 1,011,825; Dec. 12; Sp. p. 3196; Gaz. vol. 173; p. 534.
Resistance unit and making the same. C. Wirt. No. 994,355; June 6; Sp. p. 523; Gaz. vol. 167; p. 90.
Respirator. D. D. Barnum. No. 1,000,706; Aug. 15; Sp. p. 3222; Gaz. vol. 169; p. 582.
Respirator. W. I. Cocke. No. 1,007,644; Oct. 31; Sp. p. 6794; Gaz. vol. 171; p. 1221.
Respirator and pressure-equalizer, Combined. W. F. Merryman. No. 1,003,935; Sept. 19; Sp. p. 3818; Gaz. vol. 170; p. 671.
Respiratory apparatus for firemen or others. C. E. Chapin. No. 986,907; Mar. 14; Sp. p. 2447; Gaz. vol. 164; p. 423.
Restaurant-service. P. Killpatrick. No. 992,672; May 16; Sp. p. 3943; Gaz. vol. 166; p. 703.
Resurfacing mechanism. I. C. Buckminster. No. 985,973; Mar. 7; Sp. p. 466; Gaz. vol. 164; p. 75.
Retainer, Automatic. W. C. Wilkes. No. 1,001,490; Aug. 22; Sp. p. 4891; Gaz. vol. 169; p. 883.
Retainer, Automatic. E. M. Swift. No. 1,004,216; Sept. 26; Sp. p. 4503; Gaz. vol. 170; p. 797.
Retarding mechanism. F. Heath. No. 1,003,457; Sept. 19; Sp. p. 2767; Gaz. vol. 170; p. 507.
Retort-furnace. C. Westphal. No. 988,842; Apr. 4; Sp. p. 1169; Gaz. vol. 165; p. 187.
Retort-furnace. T. M. Thom and H. Pryor. No. 995,268; June 13; Sp. p. 2530; Gaz. vol. 167; p. 437.
Retorts, Coke-discharging apparatus for vertical. S. Glover and J. West. No. 991,499; May 9; Sp. p. 1433; Gaz. vol. 166; p. 270.
Retorts, Means for heating vertical. S. Glover and J. West. No. 1,011,424; Dec. 12; Sp. p. 2296; Gaz. vol. 173; p. 392.
Retorts or chambers, Apparatus for charging vertical. C. Bolz. No. 997,742; July 11; Sp. p. 2422; Gaz. vol. 168; p. 422.
Reverse friction-strap. J. M. Kroyer. No. 1,007,004; Oct. 24; Sp. p. 5389; Gaz. vol. 171; p. 944.
Reversible handle. W. Behm. No. 986,796; Mar. 14; Sp. p. 2200; Gaz. vol. 164; p. 383.
Reversible seat, Revolving. J. Madden. No. 1,007,217; Oct. 31; Sp. p. 5883; Gaz. vol. 171; p. 1074.
Reversible spring. A. A. Gross. No. 1,001,390; Aug. 22; Sp. p. 4720; Gaz. vol. 169; p. 851.
Reversing device for geared travelers. J. B. Howe. No. 994,748; June 13; Sp. p. 1424; Gaz. vol. 167; p. 264.
Reversing mechanism. E. S. Bryant and E. Cedarstrom. No. 992,157; May 16; Sp. p. 2819; Gaz. vol. 166; p. 525.
Reversing mechanism. G. Binder. No. 1,001,339; Aug. 22; Sp. p. 4607; Gaz. vol. 169; p. 833.
Reversing mechanism. H. O. Evans. No. 1,004,862; Oct. 3; Sp. p. 682; Gaz. 171; p. 111.
Revolver-holster. F. R. Lewis. No. 981,292; Jan. 10; Sp. p. 2561; Gaz. vol. 162; p. 417.
Revolvers, Barrel-catch for. H. M. Kolb. No. 995,156; June 13; Sp. p. 2321; Gaz. vol. 167; p. 401.
Revolving press, Self-adjusting. C. S. Overton. No. 1,006,001; Oct. 17; Sp. p. 3136; Gaz. vol. 171; p. 563.
Revolving stand-table. S. Cantrell. No. 981,529; Jan. 10; Sp. p. 3056; Gaz. vol. 162; p. 498.
Rewinding mechanism. W. Hess, Jr. No. 994,840; June 13; Sp. p. 1642; Gaz. vol. 167; p. 295.
Rheostat. C. D. Kestner. No. 981,572; Jan. 10; Sp. p. 3144; Gaz. vol. 162; p. 513.
Rheostat. G. H. Whittingham. No. 1,008,000; Nov. 7; Sp. p. 773; Gaz. vol. 172; p. 122.
Rheostat. L. Crump. No. 1,008,701; Nov. 14; Sp. p. 2429; Gaz. vol. 172; p. 410.
Rheostat. G. A. Scheeffer. No. 1,011,376; Dec. 12; Sp. p. 2202; Gaz. vol. 173; p. 375.
Rheostat for electric motors. J. T. Kalweit and W. H. Gaulke. No. 1,006,560; Oct. 24; Sp. p. 4440; Gaz. vol. 171; p. 792.
Rheostat, Liquid. H. W. Cheney. No. 993,027; May 23; Sp. p. 4717; Gaz. vol. 166; p. 859.
Rheostat, Starting and speed-regulating. F. J. Seabolt. No. 1,000,848; Aug. 15; Sp. p. 3515; Gaz. vol. 169; p. 632.

Rheostats, Elements for electric. J. W. Hoffman and H. M. Rogers. No. 1,012,549; Dec. 19; Sp. p. 4764; Gaz. vol. 173; p. 817.
Rib-boner. C. M. Maisel. No. 984,013; Feb. 14; Sp. p. 1664; Gaz. vol. 163; p. 287.
Ribbon bows and the like, Fastening device for. G. E. Tarnow. No. 985,075; Feb. 21; Sp. p. 3883; Gaz. vol. 163; p. 686.
Ribbon-cutter. W. C. Jaegle. No. 995,465; June 20; Sp. p. 2982; Gaz. vol. 167; p. 533.
Ribbon-feeding mechanism. A. H. Bates. No. 991,599; May 9; Sp. p. 1666; Gaz. vol. 166; p. 306.
Ribbon-feeding mechanism. H. C. Gammeter. No. 997,285; July 11; Sp. p. 1448; Gaz. vol. 168; p. 267.
Ribbon-feeding mechanism. H. C. Gammeter. No. 997,286; July 11; Sp. p. 1453; Gaz. vol. 168; p. 267.
Ribbon-feeding mechanism. H. C. Gammeter. No. 997,287; July 11; Sp. p. 1458; Gaz. vol. 168; p. 267.
Ribbon-feeding mechanism. H. C. Gammeter. No. 997,615; July 11; Sp. p. 2110; Gaz. vol. 168; p. 376.
Ribbon guide and pointer. H. E. Payne and S. G. Wray. No. 1,011,366; Dec. 12; Sp. p. 2186; Gaz. vol. 173; p. 372.
Ribbon holder, Baby-. W. J. Hedenstrom. No. 982,361; Jan. 24; Sp. p. 4835; Gaz. vol. 162; p. 837.
Ribbon mechanism. C. Spiro. No. 990,917; May 2; Sp. p. 190; Gaz. vol. 166; p. 34.
Ribbon-press. J. E. McClellan. No. 1,006,667; Oct. 24; Sp. p. 4650; Gaz. vol. 171; p. 829.
Rice-hulling machine. A. B. Couch. No. 988,931; Apr. 4; Sp. p. 1336; Gaz. vol. 165; p. 215.
Ridge-drill. W. Meissner. No. 994,707; June 6; Sp. p. 1286; Gaz. vol. 167; p. 210.
Riding-habit. I. Kleinberger. No. 995,609; June 20; Sp. p. 3317; Gaz. vol. 167; p. 584.
Rifle. J. B. A. Guindon. No. 996,239; June 27; Sp. p. 4694; Gaz. vol. 167; p. 836.
Rifle-cleaner. D. L. Humphreys. No. 1,002,992; Sept. 12; Sp. p. 1805; Gaz. vol. 170; p. 312.
Rifle, Repeating. D. Stergianopulos. No. 999,271; Aug. 1; Sp. p. 150; Gaz. vol. 169; p. 28.
Rigging, Release-. W. P. Murphy. No. 1,002,429; Sept. 5; Sp. p. 572; Gaz. vol. 170; p. 81.
Rim and tire, Demountable. R. P. Scott. No. 1,009,103; Nov. 21; Sp. p. 3288; Gaz. vol. 172; p. 582.
Rim construction, Demountable-. E. A. Baker. No. 998,666; July 25; Sp. p. 4503; Gaz. vol. 168; p. 821.
Rim, Demountable. A. R. Behnke. No. 981,740; Jan. 17; Sp. p. 3487; Gaz. vol. 162; p. 591.
Rim, Demountable. P. J. McCullough. No. 984,833; Feb. 21; Sp. p. 3426; Gaz. vol. 163; p. 604.
Rim, Demountable. P. E. Doolittle. No. 998,880; July 25; Sp. p. 5004; Gaz. vol. 168; p. 898.
Rim, Demountable. L. E. Younie. No. 999,138; July 25; Sp. p. 5539; Gaz. vol. 168; p. 984.
Rim, Demountable. J. Baker. No. 1,001,802; Aug. 29; Sp. p. 5565; Gaz. vol. 169; p. 1020.
Rim, Demountable. E. C. Phillips. No. 1,001,886; Aug. 29; Sp. p. 5756; Gaz. vol. 169; p. 1050.
Rim, Demountable. F. R. Barker. No. 1,004,966; Oct. 3; Sp. p. 890; Gaz. vol. 171; p. 147.
Rim, Divisible. F. R. Barker and J. Greenwood. No. 994,237; June 6; Sp. p. 283; Gaz. vol. 167; p. 48.
Rim fastening, Demountable-. C. R. Twitchell. No. 1,008,573; Nov. 14; Sp. p. 2147; Gaz. vol. 172; p. 366.
Rim, Removable. E. J. Bushey. No. 994,974; June 13; Sp. p. 1937; Gaz. vol. 167; p. 340.
Rim, Removable tubular. J. C. Cole. No. 994,247; June 6; Sp. p. 302; Gaz. vol. 167; p. 52.
Rim, Separable demountable. G. H. McClatchy. No. 1,000,424; Aug. 15; Sp. p. 2587; Gaz. vol. 169; p. 482.
Ring: *See* Coupling-ring; Curtain-ring; Curtain-pole ring; Dental molding-ring; Ear-ring; Finger-ring; Flying-ring; Identification-ring; Key-ring; Lap-ring; Link ring; Lock-ring; Packing-ring; Pipe-coupling-clamping ring; Piston-ring; Spinning-ring; Vat-washing-machine ring.
Ring-cutting machine. J. M. Flugstad and D. A. Bishop. No. 991,710; May 9; Sp. p. 1914; Gaz. vol. 166; p. 345.
Ring-mold. F. P. Greco. No. 984,659; Feb. 21; Sp. p. 3063; Gaz. vol. 163; p. 542.
Ring-mold. A. Herman. No. 994,395; June 6; Sp. p. 618; Gaz. vol. 167; p. 106.
Ring-mold. F. C. Widmann. No. 1,000,470; Aug. 15; Sp. p. 2684; Gaz. vol. 169; p. 498.
Rings, Device for use with. M. Zimmermann. No. 984,058; Feb. 14; Sp. p. 1762; Gaz. vol. 163; p. 303.
Rings, Machine for rolling finger-. H. Henrich. No. 981,560; Jan. 10; Sp. p. 3114; Gaz. vol. 162; p. 508.
Rings, Manufacture of expansible finger and other small. A. Emrich. No. 1,000,244; Aug. 8; Sp. p. 2177; Gaz. vol. 169; p. 388.
Rings, Pattern for casting finger-. F. H. Curl. No. 996,978; July 4; Sp. p. 818; Gaz. vol. 168; p. 130.
Ringer. W. S. and J. M. Taylor. No. 997,340; July 11; Sp. p. 1572; Gaz. vol. 168; p. 285.
Ringing-key. E. R. Hobbs. No. 983,898; Feb. 14; Sp. p. 1406; Gaz. vol. 163; p. 250.
Ringing-key or switch, Operator's selective. W. W. Dean. No. 987,864; Mar. 28; Sp. p. 4448; Gaz. vol. 164; p. 808.
Ringing system, Party-line. C. S. Winston. No. 992,836; May 23; Sp. p. 4291; Gaz. vol. 166; p. 791.
River-bank protector. T. W. Maxey and A. A. Estep. No. 982,621; Jan. 24; Sp. p. 5369; Gaz. vol. 162; p. 926.
River-banks, Means for protecting. A. Green. No. 1,005,113; Oct. 3; Sp. p. 1155; Gaz. vol. 171; p. 195.
Rivet. O. Link. No. 982,078; Jan. 17; Sp. p. 4258; Gaz. vol. 162; p. 709.
Rivet anvil and remover. C. O. McKinney and L. Perry. No. 1,008,424; Nov. 14; Sp. p. 1793; Gaz. vol. 172; p. 312.
Rivet, Bimetallic. D. S. Hulfish. No. 980,420; Jan. 3; Sp. p. 504; Gaz. vol. 162; p. 86.
Rivet-holder. P. W. Hershberger. No. 991,617; May 9; Sp. p. 1703; Gaz. vol. 166; p. 313.
Rivet-holder. H. C. Thompson. No. 1,007,821; Nov. 7; Sp. p. 388; Gaz. vol. 172; p. 61.
Rivet, Tubular. H. Brown. No. 1,011,151; Dec. 12; Sp. p. 1687; Gaz. vol. 173; p. 297.
Riveting. C. L. Kennicott. No. 1,004,275; Sept. 26; Sp. p. 4615; Gaz. vol. 170; p. 816.
Riveting and calking machine. C. J. Smith. No. 1,003,012; Sept. 12; Sp. p. 1840; Gaz. vol. 170; p. 319.
Riveting-machine. A. M. Morrison. No. 988,370; Apr. 4; Sp. p. 172; Gaz. vol. 165; p. 29.
Riveting-machine. K. Würzner. No. 989,100; Apr. 11; Sp. p. 1700; Gaz. vol. 165; p. 296.
Riveting-machine. E. B. Stimpson. No. 990,405; Apr. 25; Sp. p. 4571; Gaz. vol. 165; p. 806.
Riveting-machine. A. A. Kramer. No. 993,841; May 30; Sp. p. 6478; Gaz. vol. 166; p. 1167.
Riveting-machine. H. Lloyd. No. 1,000,272; Aug. 8; Sp. p. 2232; Gaz. vol. 169; p. 397.
Riveting-machine. F. von Merkl. No. 1,013,938; Dec. 5; Sp. p. 1197; Gaz. vol. 173; p. 188.
Riveting-machine, Fluid-pressure. E. E. Hanna. No. 991,440; May 2; Sp. p. 1303; Gaz. vol. 166; p. 217.
Riveting-machines, Rivet and bur feeding mechanism for. W. Baker. No. 995,315; June 13; Sp. p. 2607; Gaz. vol. 167; p. 451.
Road and making it. E. A. Paterson. No. 996,513; June 27; Sp. p. 5301; Gaz. vol. 167; p. 930.
Road-bed. J. McDermott. No. 988,483; Apr. 4; Sp. p. 411; Gaz. vol. 165; p. 67.
Road-bed. S. Mahurin. No. 999,173; July 25; Sp. p. 5600; Gaz. vol. 168; p. 996.
Road-bed equipment. J. D. Kneedler. No. 1,004,882; Oct. 3; Sp. p. 744; Gaz. vol. 171; p. 119.
Road-engine. G. A. Anderson. No. 980,393; Jan. 3; Sp. p. 439; Gaz. vol. 162; p. 76.
Road-machine. M. M. Sickler. No. 1,006,139; Oct. 17; Sp. p. 3448; Gaz. vol. 171; p. 612.
Road-roller. P. E. Holt. No. 986,290; Mar. 7; Sp. p. 1106; Gaz. vol. 164; p. 178.
Road-roller. H. F. Crandall. No. 990,846; May 2; Sp. p. 42; Gaz. vol. 166; p. 9.
Road-roller. H. F. Crandall. No. 990,847; May 2; Sp. p. 44; Gaz. vol. 166; p. 10.
Road-scarifier. E. Wright. No. 986,113; Mar. 7; Sp. p. 753; Gaz. vol. 164; p. 121.
Road-smoother. W. P. Moore. No. 1,011,230; Dec. 12; Sp. p. 1870; Gaz. vol. 173; p. 323.
Road smoother and grader. W. H. Wilson. No. 1,004,128; Sept. 26; Sp. p. 4312; Gaz. vol. 170; p. 767.
Road-surfaces and pavements, Construction or preparation of. K. L. V. Zimmer. No. 1,010,209; Nov. 28; Sp. p. 5626; Gaz. vol. 172; p. 1007.
Roads, Apparatus for maintaining crowned. W. C. Anderson. No. 980,394; Jan. 3; Sp. p. 441; Gaz. vol. 162; p. 77.
Roads, Apparatus for treating. H. K. Potter. No. 993,618; May 30; Sp. p. 5990; Gaz. vol. 166; p. 1090.
Roads, Means for laying dust and the like on and making. R. Hacking, H. and H. W. Hill. No. 980,513; Jan. 3; Sp. p. 742; Gaz. vol. 162; p. 119.
Roads, pavements, &c., Making. J. Lassailly. No. 987,726; Mar. 28; Sp. p. 4161; Gaz. vol. 164; p. 760.
Roadways, Making. J. E. Ward. No. 991,043; May 2; Sp. p. 448; Gaz. vol. 166; p. 77.
Roadways, railway-beds, pavements, &c., Making. M. A. Popkess. No. 981,685; Jan. 17; Sp. p. 3387; Gaz. vol. 162; p. 572.
Roaster: *See* Coffee-roaster; Meat-roaster; Peanut-roaster.
Roasting and baking pan. H. A. Springer. No. 985,712; Feb. 28; Sp. p. 5359; Gaz. vol. 163; p. 938.
Roasting-furnace. C. E. Dewey. No. 992,407; May 16; Sp. p. 3404; Gaz. vol. 166; p. 613.
Robe-rack, Safety. D. I. Burton. No. 992,940; May 23; Sp. p. 4534; Gaz. vol. 166; p. 829.
Rock and ore crusher. B. W. Traylor. No. 980,575; Jan. 3; Sp. p. 869; Gaz. vol. 162; p. 139.
Rock-crusher. A. W. Jones. No. 997,918; July 11; Sp. p. 2825; Gaz. vol. 168; p. 483.
Rock-crusher. J. M. Landrum. No. 1,004,663; Oct. 3; Sp. p. 238; Gaz. vol. 171; p. 42.
Rock-cutter. R. Temple. No. 1,002,786; Sept. 5; Sp. p. 1339; Gaz. vol. 170; p. 202.
Rock-cutting apparatus. R. Temple. No. 1,001,903; Aug. 29; Sp. p. 5791; Gaz. vol. 169; p. 1055.

Alphabetical list of inventions—Continued.

Rock-drill. R. S. Trott. No. 981,036; Jan. 10; Sp. p. 1974; Gaz. vol. 162; p. 326.
Rock-drill. D. S. Waugh. No. 984,171; Feb. 14; Sp. p. 1982; Gaz. vol. 163; p. 340.
Rock-drill. T. E. Adams. No. 995,210; June 13; Sp. p. 2403; Gaz. vol. 167; p. 417.
Rock-drill. W. Wood. No. 997,591; July 11; Sp. p. 2057; Gaz. vol. 168; p. 367.
Rock-drill. J. A. Thompson and E. M. Mackie. No. 1,000,130; Aug. 8; Sp. p. 1943; Gaz. vol. 169; p. 349.
Rock-drill. T. E. Adams. No. 1,006,339; Oct. 17; Sp. p. 3904; Gaz. vol. 171; p. 682.
Rock-drill. M. A. Knapp. No. 1,006,661; Oct. 24; Sp. p. 4636; Gaz. vol. 171; p. 827.
Rock-drill. R. W. Kreis. No. 1,012,656; Dec. 26; Sp. p. 5006; Gaz. vol. 173; p. 898.
Rock-drill bits, Apparatus for shaping and sharpening. W. H. Smyth. No. 996,807; July 4; Sp. p. 418; Gaz. vol. 168; p. 70.
Rock-drill making and sharpening machine. M. McHale. No. 1,001,545; Aug. 22; Sp. p. 4994; Gaz. vol. 169; p. 901.
Rock-drill, Portable electric. J. A. Pierson. No. 1,011,841; Dec. 12; Sp. p. 3238; Gaz. vol. 173; p. 539.
Rock-drill valve mechanism. F. C. Loomis. No. 995,614; June 20; Sp. p. 3325; Gaz. vol. 167; p. 586.
Rock-drill valve-motion. L. C. Bayles. No. 985,385; Feb. 28; Sp. p. 4602; Gaz. vol. 163; p. 825.
Rock-drills, Throttle-valve for. D. S. Waugh. No. 993,424; May 30; Sp. p. 5567; Gaz. vol. 166; p. 1022.
Rock-drills, Valve-motion for. L. C. Bayles. No. 993,014; May 23; Sp. p. 4688; Gaz. vol. 166; p. 854.
Rock-drills, Valve-motion for. L. C. Bayles. No. 993,218; May 23; Sp. p. 5113; Gaz. vol. 166; p. 921.
Rock-drilling engine, Pneumatically-operated. G. A. Fowler. No. 1,001,012; Aug. 22; Sp. p. 3926; Gaz. vol. 169; p. 722.
Rock-drilling machine. P. Lange. No. 998,910; July 25; Sp. p. 5065; Gaz. vol. 168; p. 909.
Rock-drilling machines, Shell for. L. C. Bayles. No. 1,009,376; Nov. 21; Sp. p. 3924; Gaz. vol. 172; p. 680.
Rock from concentrating-mills, Apparatus for disposing of waste. H. R. Wahl. No. 984,326; Feb. 14; Sp. p. 2331; Gaz. vol. 163; p. 395.
Rock loosening and impregnating device. F. Trippe. No. 999,000; July 25; Sp. p. 5275; Gaz. vol. 168; p. 939.
Rock-pulverizing machine. A. G. Campbell. No. 990,633; Apr. 25; Sp. p. 5075; Gaz. vol. 165; p. 884.
Rock-shaft, Connecting a relatively thin arm to a. G. J. Griffiths. No. 993,057; May 23; Sp. p. 4780; Gaz. vol. 166; p. 869.
Rocks containing potassium, Treating. A. S. Cushman. No. 987,436; Mar. 21; Sp. p. 3538; Gaz. vol. 164; p. 632.
Rocker. A. L. Packard. No. 983,758; Feb. 7; Sp. p. 1074; Gaz. vol. 163; p. 172.
Rocking-chair. G. Mueller. No. 1,000,748; Aug. 15; Sp. p. 3308; Gaz. vol. 169; p. 597.
Rocking-chair. M. Lutenberger. No. 1,006,963; Oct. 24; Sp. p. 5296; Gaz. vol. 171; p. 931.
Rocking-horse. F. Magee. No. 991,334; May 2; Sp. p. 1093; Gaz. vol. 166; p. 182.
Rocking-horse. S. Pongo. No. 1,012,275; Dec. 19; Sp. p. 4227; Gaz. vol. 173; p. 725.
Rocking-horse, Traveling W. Roberts. No. 1,010,178; Nov. 28; Sp. p. 5560; Gaz. vol. 172; p. 996.
Rod: *See* Car-coupling uncoupling-rod; Connecting-rod; Curtain-rod; Engineer's leveling-rod; Fish-rod; Fishing-rod; Gun-cleaning rod; Lightning-rod; Piston-rod; Sectional rod; Sucker-rod; Switch-rod; Switch-operating rod; Timber-strengthening rod.
Rod-bending apparatus. E. L. Brown, Jr. No. 1,001,244; Aug. 22; Sp. p. 4398; Gaz. vol. 169; p. 800.
Rod-catcher. J. H. Belser. No. 1,006,900; Oct. 24; Sp. p. 5183; Gaz. vol. 171; p. 911.
Rod-coupling. H. L. Barrickman. No. 1,003,973; Sept. 26; Sp. p. 3917; Gaz. vol. 170; p. 712.
Rod-cutter. H. H. Jensen. No. 1,006,222; Oct. 17; Sp. p. 3651; Gaz. vol. 171; p. 642.
Rod-cutting machine, Round-. P. Kluge. No. 1,006,102; Oct. 17; Sp. p. 3350; Gaz. vol. 171; p. 598.
Rod-puller. D. Covey. No. 983,809; Feb. 7; Sp. p. 1173; Gaz. vol. 163; p. 188.
Rod-puller. G. L. Horn. No. 995,143; June 13; Sp. p. 2285; Gaz. vol. 167; p. 396.
Rod-reel. V. E. Edwards. No. 1,008,893; Nov. 14; Sp. p. 2825; Gaz. vol. 172; p. 475.
Rod-suspender. G. V. Turgeon. No. 1,007,755; Nov. 7; Sp. p. 233; Gaz. vol. 172; p. 37.
Rods, Machine for bending reinforcing-. R. C. Wilson. No. 1,010,470; Dec. 5; Sp. p. 146; Gaz. vol. 173; p. 26.
Roll-turning device. C. F. Nystrom. No. 1,006,871; Oct. 24; Sp. p. 5109; Gaz. vol. 171; p. 901.
Roll-warmer. G. S. Blakeslee. No. 988,619; Apr. 4; Sp. p. 712; Gaz. vol. 165; p. 113.
Rolls, Machine for reducing spirally-wound. C. I. Shirley. No. 994,693; June 6; Sp. p. 1260; Gaz. vol. 167; p. 205.
Roller: *See* Candy-batch roller; Cane-mill roller; Caster-roller; Concrete land-roller; Cotton-gin roller; Covering-roller; Curtain-roller; Door-roller; Garden and road roller; Land-roller; Land and corn roller; Mower-roller; Pulverizer-roller; Pulverizing-roller; Road-roller; Sandpapering-roller; Shade-roller; Sheet-metal roller; Stalk-chopping roller; Type-writer roller; Type-writer platen and other roller.
Roller. J. Storck. No. 1,002,091; Aug. 29; Sp. p. 6170; Gaz. vol. 169; p. 1116.
Roller and harrow, Combined. H. Cordes. No. 985,728; Feb. 28; Sp. p. 5390; Gaz. vol. 163; p. 944.
Roller-drill. H. R. Hughes. No. 1,010,143; Nov. 28; Sp. p. 5495; Gaz. vol. 172; p. 984.
Roller-drill. H. R. Hughes. No. 1,010,406; Nov. 28; Sp. p. 6041; Gaz. vol. 172; p. 1070.
Roller-frame. M. J. Fitzpatrick. No. 1,003,727; Sept. 19; Sp. p. 3365; Gaz. vol. 170; p. 601.
Roller-mill. W. A. Dunn. No. 1,002,906; Sept. 12; Sp. p. 1637; Gaz. vol. 170; p. 283.
Roller-mill. W. A. Dunn. No. 1,002,907; Sept. 12; Sp. p. 1642; Gaz. vol. 170; p. 283.
Roller-press. E. U. G. Reagan. No. 983,086; Jan. 31; Sp. p. 6393; Gaz. vol. 162; p. 1111.
Roller-screen. R. Orme. No. 992,241; May 16; Sp. p. 3010; Gaz. vol. 166; p. 554.
Roller-screen. M. F. Hutchison. No. 998,006; July 18; Sp. p. 3050; Gaz. vol. 168; p. 555.
Roller-support. A. Scharnweber. No. 999,468; Aug. 1; Sp. p. 536; Gaz. vol. 169; p. 95.
Roller-track, Adjustable. W. E. Brandt. No. 1,002,125; Aug. 29; Sp. p. 6231; Gaz. vol. 169; p. 1126.
Rollers, Adjusting mechanism for. H. Rosenthal. No. 991,544; May 9; Sp. p. 1546; Gaz. vol. 166; p. 286.
Rolling apparatus, Steel-. J. E. York. No. 1,001,116; Aug. 22; Sp. p. 4155; Gaz. vol. 169; p. 760.
Rolling lapped tubes, Mill for cold-. J. S. Worth and W. F. Harrison. No. 991,407; May 2; Sp. p. 1234; Gaz. vol. 166; p. 206.
Rolling machine, Gear-. H. N. Anderson. No. 1,001,799; Aug. 29; Sp. p. 5550; Gaz. vol. 169; p. 1019.
Rolling metal, Composite roll for. D. H. Lentz. No. 983,828; Feb. 7; Sp. p. 1232; Gaz. vol. 163; p. 196.
Rolling metal shapes, Apparatus for. E. E. Slick. No. 982,888; Jan. 31; Sp. p. 5959; Gaz. vol. 162; p. 1045.
Rolling-mill. F. C. Biggert, Jr. No. 980,186; Jan. 3; Sp. p. 17; Gaz. vol. 162; p. 5.
Rolling-mill. F. C. Biggert, Jr. No. 980,187; Jan. 3; Sp. p. 18; Gaz. vol. 162; p. 6.
Rolling-mill. F. C. Biggert, Jr. No. 984,345; Feb. 14; Sp. p. 2368; Gaz. vol. 163; p. 400.
Rolling-mill. A. T. Keller. No. 991,070; May 2; Sp. p. 501; Gaz. vol. 166; p. 87.
Rolling-mill. R. H. Stevens. No. 993,730; May 30; Sp. p. 6247; Gaz. vol. 166; p. 1129.
Rolling-mill. F. I. Ellis. No. 997,765; July 11; Sp. p. 2464; Gaz. vol. 168; p. 430.
Rolling-mill. C. J. Gibbons. No. 1,004,771; Oct. 3; Sp. p. 485; Gaz. vol. 171; p. 80.
Rolling-mill, Continuous. J. Kalle. No. 981,281; Jan. 10; Sp. p. 2540; Gaz. vol. 162; p. 414.
Rolling-mill for metal tubes. M. Koch. No. 984,569; Feb. 21; Sp. p. 2868; Gaz. vol. 163; p. 511.
Rolling-mill for rolling out hollow blocks. A. Fassl. No. 988,868; Apr. 4; Sp. p. 1218; Gaz. vol. 165; p. 195.
Rolling-mill guide-box. E. H. Carroll. No. 1,010,584; Dec. 5; Sp. p. 410; Gaz. vol. 173; p. 65.
Rolling-mill guiding appliance for wire, strip metal, &c. C. Tober. No. 989,731; Apr. 18; Sp. p. 3077; Gaz. vol. 165; p. 542.
Rolling-mill mandrel. R. Mühe. No. 1,012,413; Dec. 19; Sp. p. 4500; Gaz. vol. 173; p. 771.
Rolling mill, Seamless-tube-. J. C. Harkness. No. 988,569; Apr. 4; Sp. p. 596; Gaz. vol. 165; p. 96.
Rolling mill, Tube-. T. Curr, Jr. No. 1,007,924; Nov. 7; Sp. p. 632; Gaz. vol. 172; p. 97.
Rolling-mills, Leading-spindle for. V. E. Edwards. No. 994,069; May 30; Sp. p. 6918; Gaz. vol. 166; p. 1242.
Rolling-mills, Oiling-box for. J. Judd. No. 986,176; Mar. 7; Sp. p. 878; Gaz. vol. 164; p. 142.
Rolling-mills, Swinging hot-saw for. A. W. Starck. No. 1,010,527; Dec. 5; Sp. p. 281; Gaz. vol. 173; p. 45.
Rolling out hollow billets or tubes, Roll-train for. H. Stüting. No. 1,009,937; Nov. 28; Sp. p. 5061; Gaz. vol. 172; p. 913.
Rolling steel. F. N. Speller. No. 1,006,601; Oct. 24; Sp. p. 4526; Gaz. vol. 171; p. 806.
Rolling tapered tubes, Apparatus for. J. S. Lewis. No. 989,508; Apr. 11; Sp. p. 2562; Gaz. vol. 165; p. 434.
Rolling tie-plates and the like. D. H. Lentz. No. 986,071; Mar. 7; Sp. p. 674; Gaz. vol. 164; p. 108.
Rolling tubes. A. Fassl. No. 988,634; Apr. 4; Sp. p. 745; Gaz. vol. 165; p. 119.
Roof. A. A. Smith. No. 986,514; Mar. 14; Sp. p. 1613; Gaz. vol. 164; p. 287.
Roof-bracket. W. Graffam. No. 986,456; Mar. 14; Sp. p. 1483; Gaz. vol. 164; p. 268.
Roof-clip. W. P. Murphy. No. 1,006,495; Oct. 24; Sp. p. 4273; Gaz. vol. 171; p. 767.

Alphabetical list of inventions—Continued.

Roof-joint. C. A. Overton. No. 1,012,219; Dec. 19; Sp. p. 4112; Gaz. vol. 173; p. 705.
Roof or wall covering. H. Button. No. 985,140; Feb. 28; Sp. p. 4035; Gaz. vol. 163; p. 742.
Roof, Rolling. J. W. Erb. No. 1,006,374; Oct. 17; Sp. p. 3988; Gaz. vol. 171; p. 694.
Roof structure. A. B. Kleinhans. No. 1,000,819; Aug. 15; Sp. p. 3453; Gaz. vol. 169; p. 622.
Roofs, Comb-cover for corrugated. W. E. Williams and K. Roth. No. 982,916; Jan. 31; Sp. p. 6022; Gaz. vol. 162; p. 1054.
Roofing. H. Olmsted, Jr. No. 1,012,903; Dec. 26; Sp. p. 5574; Gaz. vol. 173; p. 983.
Roofing-bracket. G. B. Kefover. No. 1,006,562; Oct. 24; Sp. p. 4444; Gaz. vol. 171; p. 793.
Roofing-cleat. J. H. Bell. No. 981,362; Jan. 10; Sp. p. 2719; Gaz. vol. 162; p. 441.
Roofing-cleat. J. H. Bell. No. 985,501; Feb. 28; Sp. p. 4883; Gaz. vol. 163; p. 866.
Roofing, Composite. R. Anderson and W. E. Moltz. No. 984,518; Feb. 14; Sp. p. 2730; Gaz. vol. 163; p. 458.
Roofing compound. J. T. Couse. No. 981,916; Jan. 17; Sp. p. 3897; Gaz. vol. 162; p. 655.
Roofing fabrics, Mandrel for reeling ready-. B. G. Casler. No. 980,406; Jan. 3; Sp. p. 469; Gaz. vol. 162; p. 81.
Roofing-joint. F. S. Howard. No. 993,686; May 30; Sp. p. 6153; Gaz. vol. 166; p. 1113.
Roofing material, Packing. H. M. Reynolds. No. 1,008,435; Nov. 14; Sp. p. 1816; Gaz. vol. 172; p. 315.
Roofing-paper, Waterproof lock-seam for. F. E. Smith. No. 984,860; Feb. 21; Sp. p. 3472; Gaz. vol. 163; p. 613.
Roofing, Prepared. E. J. Schroder. No. 1,007,146; Oct. 31; Sp. p. 5721; Gaz. vol. 171; p 1049.
Room lock, Communicating-. H. G. Voight. No. 1,007,826; Nov. 7; Sp. p. 398; Gaz. vol. 172; p. 63.
Roost, Chicken-. A. Stombaugh. No. 995,734; June 20; Sp. p. 3581; Gaz. vol. 167; p. 629.
Roost, Fumigating-. T. S. O. Blenis. No. 985,503; Feb. 28; Sp. p. 4888; Gaz. vol. 163; p. 867.
Roost, Poultry-. C. H. Jackson. No. 985,595; Feb. 28; Sp. p. 5086; Gaz. vol. 163; p. 899.
Root-cleaning machine. A. Maguin. No. 989,915; Apr. 18; Sp. p. 3483; Gaz. vol. 165; p. 606.
Rope. E. P. Frederick. No. 1,009,030; Nov. 14; Sp. p. 3125; Gaz. vol. 172; p. 520.
Rope, chain, or wire stretcher. J. S. Sourek. (Reissue.) No. 13,233; May 2; Sp. p. 1368; Gaz. vol. 166; p. 227.
Rope-clamp. C. L. Matthews. No. 988,481; Apr. 4; Sp. p. 409; Gaz. vol. 165; p. 66.
Rope-climbing device. I. J. Westad. No. 983,335; Feb. 7; Sp. p. 167; Gaz. vol. 163; p. 29.
Rope-clip. J. R. Wood. No. 1,002,893; Sept. 12; Sp. p. 1606; Gaz. vol. 170; p. 278.
Rope-coupling. J. P. Tolman and J. L. Bixby, Jr. No. 999,914; Aug. 8; Sp. p. 1446; Gaz. vol. 169; p. 275.
Rope-drive elevator. D. L. Lindquist and A. Sundh. No. 987,384; Mar. 21; Sp. p. 3434; Gaz. vol. 164; p. 615.
Rope-drive elevator, Friction. E. Boening. No. 994,112; June 6; Sp. p. 14; Gaz. vol. 167; p. 5.
Rope, Flattened-strand. O. Tångring. No. 1,004,546; Sept. 26; Sp. p. 5164; Gaz. vol. 170; p. 908.
Rope-hitch. G. Krenzke. No. 986,014; Mar. 7; Sp. p. 562; Gaz. vol. 164; p. 89.
Rope-holder. D. V. Bengtson. No. 994,089; May 30; Sp. p. 6966; Gaz. vol. 166; p. 1249.
Rope, Jumping-. T. L. Webster. No. 982,555; Jan. 24; Sp. p. 5248; Gaz. vol. 162; p. 905.
Rope-laying machine. C. W. Sponsel. No. 991,659; May 9; Sp. p. 1801; Gaz. vol. 166; p. 327.
Rope-making machine. A. D. Long. No. 998,360; July 18; Sp. p. 3848; Gaz. vol. 168; p. 683.
Rope-socket. W. A. Campbell. No. 997,488; July 11; Sp. p. 1845; Gaz. vol. 168; p. 333.
Rope-socket, Ratchet. F. J. Schweitzer. No. 998,641; July 25; Sp. p. 4445; Gaz. vol. 168; p. 813.
Rope-tightener. F. and S. Gellert. No. 982,586; Jan. 24; Sp. p. 5304; Gaz. vol. 162; p. 914.
Ropes and the like, Apparatus for untwisting, breaking up, and teasing the fibers in the form of. J. W. and H. A. Bore. No. 986,351; Mar. 7; Sp. p. 1245; Gaz. vol. 164; p. 201.
Ropes, Means for joining the ends of driving and other. W. Shufflebottom and T. Kenworthy. No. 981,802; Jan. 17; Sp. p. 3609; Gaz. vol. 162; p. 613.
Rosette. J. S. Stewart. No. 986,030; Mar. 7; Sp. p. 591; Gaz. vol. 164; p. 95.
Rosette. B. Nealis. No. 986,494; Mar. 14; Sp. p. 1572; Gaz. vol. 164; p. 280.
Rotary-apparatus feeding device. K. O. S. Thors. No. 991,183; May 2; Sp. p. 757; Gaz. vol. 166; p. 128.
Rotary bit, Self-adjusting. C. E. Frederickson. No. 995,064; June 13; Sp. p. 2141; Gaz. vol. 167; p. 371.
Rotary compound explosive-engine. M. H. Sullivan. No. 1,006,417; Oct. 17; Sp. p. 4071; Gaz. vol. 171; p. 710.
Rotary drier. F. B. Giesler. No. 1,006,647; Oct. 24; Sp. p. 4610; Gaz. vol. 171; p. 822.
Rotary engine. W. and J. Birrell. No. 980,402; Jan. 3; Sp. p. 461; Gaz. vol. 162; p. 79.
Rotary engine. P. Glamzo. No. 980,771; Jan. 3; Sp. p. 1268; Gaz. vol. 162; p. 204.
Rotary engine. M. A. Dooley. No. 981,540; Jan. 10; Sp. p. 3084; Gaz. vol. 162; p. 503.
Rotary engine. R. F. C. Keats. No. 981,862; Jan. 17; Sp. p. 3756; Gaz. vol. 162; p. 635.
Rotary engine. C. E. Clapp. No. 982,035; Jan. 17; Sp. p. 4162; Gaz. vol. 162; p. 694.
Rotary engine. E. Hager. No. 982,054; Jan. 17; Sp. p. 4206; Gaz. vol. 162; p. 701.
Rotary engine. W. W. Wheeler. No. 982,329; Jan. 24; Sp. p. 4767; Gaz. vol. 162; p. 826.
Rotary engine. I. M. Kephart. No. 983,257; Jan. 31; Sp. p. 6738; Gaz. vol. 162; p. 1168.
Rotary engine. F. P. Nichols. No. 983,754; Feb. 7; Sp. p. 1065; Gaz. vol. 163; p. 170.
Rotary engine. B. F. Augustine. No. 984,061; Feb. 14; Sp. p. 1767; Gaz. vol. 163; p. 304.
Rotary engine. A. E. Greene. No. 984,904; Feb. 21; Sp. p. 3551; Gaz. vol. 163; p. 627.
Rotary engine. J. H. Watson. No. 984,983; Feb. 21; Sp. p. 3699; Gaz. vol. 163; p. 653.
Rotary engine. K. and E. Wittig. No. 985,091; Feb. 21; Sp. p. 3914; Gaz. vol. 163; p. 691.
Rotary engine. S. E. McGann. No. 985,192; Feb. 28; Sp. p. 4182; Gaz. vol. 163; p. 761.
Rotary engine. R. Williams. No. 985,562; Feb. 28; Sp. p. 5014; Gaz. vol. 163; p. 888.
Rotary engine. D. N. Green. No. 985,584; Feb. 28; Sp. p. 5066; Gaz. vol. 163; p. 895.
Rotary engine. D. N. Green. No. 985,669; Feb. 28; Sp. p. 5225; Gaz. vol. 163; p. 923.
Rotary engine. W. M. Hoffman. No. 985,804; Mar. 7; Sp. p. 72; Gaz. vol. 164; p. 16.
Rotary engine. H. I. Call. No. 985,974; Mar. 7; Sp. p. 469; Gaz. vol. 164; p. 75.
Rotary engine. F. Wyle. No. 986,116; Mar. 7; Sp. p. 757; Gaz. vol. 164; p. 122.
Rotary engine. T. H. Lindley and H. Schreier. No. 986,636; Mar. 14; Sp. p. 1863; Gaz. vol. 164; p. 331.
Rotary engine. W. L. Merrill. No. 986,641; Mar. 14; Sp. p. 1883; Gaz. vol. 164; p. 333.
Rotary engine. W. von Pittler. No. 988,591; Apr. 4; Sp. p. 654; Gaz. vol. 165; p. 105.
Rotary engine. C. J. Hubbard. No. 988,938; Apr. 4; Sp. p. 1357; Gaz. vol. 165; p. 217.
Rotary engine. W. H. Richmond. No. 988,949; Apr. 4; Sp. p. 1376; Gaz. vol. 165; p. 221.
Rotary engine. E. Fisher, Jr. No. 988,989; Apr. 11; Sp. p. 1470; Gaz. vol. 165; p. 259.
Rotary engine. E. Fisher, Jr. No. 988,992; Apr. 11; Sp. p. 1477; Gaz. vol. 165; p. 260.
Rotary engine. W. von Pittler. No. 990,163; Apr. 18; Sp. p. 3991; Gaz. vol. 165; p. 688.
Rotary engine. J. Norin. No. 990,665; Apr. 25; Sp. p. 5161; Gaz. vol. 165; p. 895.
Rotary engine. R. S. White, Jr. No. 991,576; May 9; Sp. p. 1611; Gaz. vol. 166; p. 297.
Rotary engine. P. Kiltz. No. 992,673; May 16; Sp. p. 3945; Gaz. vol. 166; p. 704.
Rotary engine. T. J. and D. M. Winans. No. 992,929; May 23; Sp. p. 4501; Gaz. vol. 166; p. 825.
Rotary engine. J. H. Carroll. No. 993,960; May 30; Sp. p. 6699; Gaz. vol. 166; p. 1205.
Rotary engine. J. Grindrod. No. 994,313; June 6; Sp. p. 428; Gaz. vol. 167; p. 74.
Rotary engine. W. P. McMannamy and J. P. Johnson. No. 994,595; June 6; Sp. p. 1023; Gaz. vol. 167; p. 170.
Rotary engine. G. B. Dunbar. No. 994,825; June 13; Sp. p. 1610; Gaz. vol. 167; p. 290.
Rotary engine. T. G. McGonigle. No. 995,076; June 13; Sp. p. 2162; Gaz. vol. 167; p. 375.
Rotary engine. W. H. Weddington. No. 995,505; June 20; Sp. p. 3067; Gaz. vol. 167; p. 547.
Rotary engine. K. L. Power. No. 995,717; June 20; Sp. p. 3534; Gaz. vol. 167; p. 623.
Rotary engine. F. W. Ferguson. No. 995,855; June 20; Sp. p. 3861; Gaz. vol. 167; p. 671.
Rotary engine. J. H. Van Deventer. No. 996,169; June 27; Sp. p. 4500; Gaz. vol. 167; p. 813.
Rotary engine. O. G. McMillan. No 996,272; June 27; Sp. p. 4780; Gaz. vol. 167; p. 848.
Rotary engine. J. M. Foy. No. 996,477; June 27; Sp. p. 5239; Gaz. vol. 167; p. 919.
Rotary engine. F. C. Olney. No. 996,668; July 4; Sp. p. 146; Gaz. vol. 168; p. 26.
Rotary engine. J. S. Beeson. No. 997,895; July 11; Sp. p. 2779; Gaz. vol. 168; p. 475.
Rotary engine. T. Idzal. No. 999,650; Aug. 1; Sp. p. 890; Gaz. vol. 169; p. 155.
Rotary engine. J. Goalard. No. 1,000,257; Aug. 8; Sp. p. 2203; Gaz. vol. 169; p. 392.
Rotary engine. W. Alexander. No. 1,000,316; Aug. 8; Sp. p. 2319; Gaz. vol. 169; p. 411.
Rotary engine. G. Brickley. No. 1,000,371; Aug. 15; Sp. p. 2471; Gaz. vol. 169; p. 462.
Rotary engine. J. Gougeon. No. 1,000,509; Aug. 15; Sp. p. 2762; Gaz. vol. 169; p. 511.
Rotary engine. F. Yantes. No. 1,001,114; Aug. 22; Sp. p. 4151; Gaz. vol. 169; p. 759.
Rotary engine. F. D. Lambert and R. R. Resch. No. 1,001,204; Aug. 22; Sp. p. 4321; Gaz. vol. 169; p. 787.

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Rotary engine. O. P. Ostergren. No. 1,001,675; Aug. 29; Sp. p. 5285; Gaz. vol. 169; p. 977.
Rotary engine. O. P. Ostergren. No. 1,001,676; Aug. 29; Sp. p. 5287; Gaz. vol. 169; p. 977.
Rotary engine. H. Heyen. No. 1,002,059; Aug. 29; Sp. p. 6115; Gaz. vol. 169; p. 1105.
Rotary engine. H. L. Bickerton. No. 1,002,121; Aug. 29; Sp. p. 6222; Gaz. vol. 169; p. 1125.
Rotary engine. W. F. Neely. No. 1,003,491; Sept. 19; Sp. p. 2835; Gaz. vol. 170; p. 519.
Rotary engine. E. F. Girod. No. 1,005,957; Oct. 17; Sp. p. 3056; Gaz. vol. 171; p. 549.
Rotary engine. L. Holt. No. 1,006,093; Oct. 17; Sp. p. 3335; Gaz. vol. 171; p. 595.
Rotary engine. J. B. Groh. No. 1,006,546; Oct. 24; Sp. p. 4404; Gaz. vol. 171; p. 787.
Rotary engine. B. F. Augustine. No. 1,006,896; Oct. 24; Sp. p. 5173; Gaz. vol. 171; p. 909.
Rotary engine. B. H. Harris. No. 1,007,100; Oct. 31; Sp. p. 5610; Gaz. vol. 171; p. 1031.
Rotary engine. A. E. Greene. No. 1,007,866; Nov. 7; Sp. p. 509; Gaz. vol. 172; p. 76.
Rotary engine. B. F. Augustine. No. 1,009,213; Nov. 21; Sp. p. 3540; Gaz. vol. 172; p. 620.
Rotary engine. A. Wester. No. 1,009,362; Nov. 21; Sp. p. 3878; Gaz. vol. 172; p. 675.
Rotary engine. J. Gill. No. 1,009,405; Nov. 21; Sp. p. 3994; Gaz. vol. 172; p. 690.
Rotary engine. G. T. Cunningham. No. 1,009,482; Nov. 21; Sp. p. 4157; Gaz. vol. 172; p. 716.
Rotary engine. H. A. King. No. 1,010,378; Nov. 28; Sp. p. 5976; Gaz. vol. 172; p. 1061.
Rotary engine. W. A. Allan. No. 1,010,407; Dec. 5; Sp. p. 1; Gaz. vol. 173; p. 3.
Rotary engine. T. H. Lewis. No. 1,010,650; Dec. 5; Sp. p. 553; Gaz. vol. 173; p. 88.
Rotary engine. W. and A. Read. No. 1,010,956; Dec. 5; Sp. p. 1229; Gaz. vol. 173; p. 195.
Rotary engine. W. Hartmann. No. 1,011,619; Dec. 12; Sp. p. 2788; Gaz. vol. 173; p. 464.
Rotary engine. S. S. Webb. No. 1,012,305; Dec. 19; Sp. p. 4287; Gaz. vol. 173; p. 735.
Rotary engine. J. F. Dubus. No. 1,012,616; Dec. 26; Sp. p. 4917; Gaz. vol. 173; p. 885.
Rotary engine. G. P. Herrick. No. 1,012,850; Dec. 26; Sp. p. 5465; Gaz. vol. 173; p. 967.
Rotary engine and pump, Combined. F. A. Parsons and J. H. Myers. No. 1,001,162; Aug. 22; Sp. p. 4227; Gaz. vol. 169; p. 773.
Rotary engine, Compound. L. K. Sivertson. No. 987,264; Mar. 21; Sp. p. 3183; Gaz. vol. 164; p. 576.
Rotary engine, Compound. G. C. Hale. No. 1,008,137; Nov. 7; Sp. p. 1046; Gaz. vol. 172; p. 170.
Rotary engine, Reversible. J. S. Haney. No. 1,009,300; Nov. 21; Sp. p. 3744; Gaz. vol. 172; p. 652.
Rotary explosion-engine. I. B. Humphreys. No. 1,003,263; Sept. 12; Sp. p. 2378; Gaz. vol. 170; p. 408.
Rotary explosion-engine. P. M. Rodigin. No. 1,003,800; Sept. 19; Sp. p. 3512; Gaz. vol. 170; p. 625.
Rotary explosive-engine. J. W. Dawson. No. 984,358; Feb. 14; Sp. p. 2391; Gaz. vol. 163; p. 405.
Rotary explosive-engine. J. C. and R. T. Peterson. No. 987,486; Mar. 21; Sp. p. 3648; Gaz. vol. 164; p. 650.
Rotary explosive-engine. C. H. Vom Baur. No. 991,933; May 9; Sp. p. 2359; Gaz. vol. 166; p. 419.
Rotary explosive-engine. C. W. Lindsay. No. 997,144; July 4; Sp. p. 1152; Gaz. vol. 168; p. 187.
Rotary explosive-engine. C. M. Jordan. No. 998,779; July 25; Sp. p. 4767; Gaz. vol. 168; p. 861.
Rotary explosive-engine. W. M. Stevenson. No. 1,001,320; Aug. 22; Sp. p. 4573; Gaz. vol. 169; p. 827.
Rotary explosive-engine. W. P. Barclay. No. 1,012,051; Dec. 19; Sp. p. 3729; Gaz. vol. 173; p. 648.
Rotary explosive-engine. F. Uhtbrock. No. 1,012,115; Dec. 19; Sp. p. 3878; Gaz. vol. 173; p. 670.
Rotary furnace. I. L. Briggs. No. 1,000,321; Aug. 8; Sp. p. 2337; Gaz. vol. 169; p. 413.
Rotary furnace. D. Baker. No. 1,004,340; Sept. 26; Sp. p. 4737; Gaz. vol. 170; p. 838.
Rotary furnace. E. S. Davis. No. 1,010,728; Dec. 5; Sp. p. 729; Gaz. vol. 173; p. 115.
Rotary gas-engine. F. D. Thomas. No. 987,929; Mar. 28; Sp. p. 4622; Gaz. vol. 164; p. 930.
Rotary gas-engine. O. F. Edqvist. No. 988,319; Apr. 4; Sp. p. 48; Gaz. vol. 165; p. 10.
Rotary impact-engine. O. P. Ostergren. No. 993,399; May 30; Sp. p. 5502; Gaz. vol. 166; p. 1013.
Rotary impact-engine. C. J. Coleman. No. 1,003,708; Sept. 19; Sp. p. 3325; Gaz. vol. 170; p. 595.
Rotary internal-combustion engine. E. H. Ewertz. No. 980,506; Jan. 3; Sp. p. 723; Gaz. vol. 162; p. 116.
Rotary internal-combustion engine. O. L. R. Jones. No. 985,907; Mar. 7; Sp. p. 320; Gaz. vol. 164; p. 52.
Rotary internal-combustion engine. J. Jacobsen. No. 997,824; July 11; Sp. p. 2621; Gaz. vol. 168; p. 450.
Rotary kiln. T. A. Edison. No. 996,070; June 27; Sp. p. 4300; Gaz. vol. 167; p. 780.
Rotary kiln. J. S. Fasting. No. 997,381; July 11; Sp. p. 1647; Gaz. vol. 168; p. 298.
Rotary kiln. P. T. Lindhärd. No. 1,008,974; Nov. 14; Sp. p. 3000; Gaz. vol. 172; p. 500.
Rotary metallurgical furnace for roasting zinc ores and the like. P. Schmieder. No. 1,004,916; Oct. 3; Sp. p. 807; Gaz vol. 171; p. 130.
Rotary meter. W. L. Wilcox and W. J. Benson. No. 1,001,722; Aug. 29; Sp. p. 5384; Gaz. vol. 169; p. 993.
Rotary meter. H. A. Selah. No. 1,009,934; Nov. 28; Sp. p. 5055; Gaz. vol. 172; p. 913.
Rotary mold for founding tubes and the like. H. J. Molinder. No. 1,004,293; Sept. 26; Sp. p. 4649; Gaz. vol. 170; p. 823.
Rotary motor. W. S. Elliott. No. 983,033; Jan. 31; Sp. p. 6291; Gaz. vol. 162; p. 1093.
Rotary motor. J. Harman. No. 989,600; Apr. 18; Sp. p. 2817; Gaz. vol. 165; p. 498.
Rotary motor. C. J. Olson. No. 992,582; May 16; Sp. p. 3768; Gaz. vol. 166; p. 674.
Rotary motor. E. E. Hauer. No. 994,391; June 6; Sp. p. 613; Gaz. vol. 167; p. 104.
Rotary motor. E. E. Hauer. No. 994,392; June 6; Sp. p. 614; Gaz. vol. 167; p. 104.
Rotary motor. H. B. Holt. No. 994,400; June 6; Sp. p. 626; Gaz. vol. 167; p. 107.
Rotary motor. F. Beck. No. 998,451; July 18; Sp. p. 4024; Gaz. vol. 168; p. 714.
Rotary motor. J. Mackey. No. 1,006,859; Oct. 24; Sp. p. 5079; Gaz. vol. 171; p. 895.
Rotary motor. F. Lamberti. No. 1,009,534; Nov. 21; Sp. p. 4263; Gaz. vol. 172; p. 734.
Rotary motor. M. H. Liston and A. C. Pitman. No. 1,009,759; Nov. 28; Sp. p. 4720; Gaz. vol. 172; p. 855.
Rotary motor. J. E. Smith. No. 1,011,509; Dec. 12; Sp. p. 2494; Gaz. vol. 173; p. 424.
Rotary motor. F. Hodgkinson. No. 1,011,788; Dec. 12; Sp. p. 3128; Gaz. vol. 173; p. 522.
Rotary motor. W. A. Ragsdale. No. 1,012,155; Dec. 19; Sp. p. 3958; Gaz. vol. 173; p. 683.
Rotary motor for driving tube-cleaners. E. E. Hauer. No. 994,393; June 6; Sp. p. 616; Gaz. vol. 167; p. 105.
Rotary sintering-furnace. H. C. Wolle. No. 1,005,396; Oct. 10; Sp. p. 1795; Gaz. vol. 171; p. 320.
Rotary steam-engine. R. I. Miller. No. 986,932; Mar. 14; Sp. p. 2485; Gaz. vol. 164; p. 430.
Rotary steam-engine. C. Pence. No. 995,173; June 13; Sp. p. 2351; Gaz. vol. 167; p. 407.
Rotary steam-engine. A. A. West. No. 1,006,035; Oct. 17; Sp. p. 3207; Gaz. vol. 171; p. 576.
Rotary switch. W. E. Dow. No. 994,774; June 6; Sp. p. 3683; Gaz. vol. 167; p. 643.
Rotor, Manually-operated high-speed. M. Goehler. No. 981,757; Jan. 17; Sp. p. 3525; Gaz. vol. 162; p. 597.
Roundabout. E. B. Rayner. No. 982,993; Jan. 31; Sp. p. 6189; Gaz. vol. 162; p. 1079.
Roundabout. W. J. Dammling. No. 994,444; June 6; Sp. p. 708; Gaz. vol. 167; p. 121.
Roundabout. C. J. Menges. No. 1,011,984; Dec. 19; Sp. p. 3567; Gaz. vol. 173; p. 624.
Roundabout. M. Robinson and J. Dale. No. 1,012,280; Dec. 19; Sp. p. 4236; Gaz. vol. 173; p. 727.
Roundabout, Observation-. V. H. Davison. No. 982,128; Jan. 17; Sp. p. 4345; Gaz. vol. 162; p. 725.
Rounding-machine. C. J. Cady. No. 1,010,854; Dec. 5; Sp. p. 1021; Gaz. vol. 173; p. 159.
Route-indicator. J. B. Rhodes. No. 1,005,474; Oct. 10; Sp. p. 1964; Gaz. vol. 171; p. 347.
Route-indicator. B. O. Rhodes. No. 1,010,802; Dec. 5; Sp. p. 895; Gaz. vol. 173; p. 140.
Routing-machine. G. Schrade. No. 985,117; Feb. 21; Sp. p. 3960; Gaz. vol. 163; p. 700.
Roving-cans, Means for facilitating the handling of. E. S. Stratton. No. 990,678; Apr. 25; Sp. p. 5208; Gaz. vol. 165; p. 899.
Roving-frames, Means for preventing singles in. T. Bentley. No. 988,925; Apr. 4; Sp. p. 1324; Gaz. vol. 165; p. 213.
Rowboat. L. M. Doan. No. 982,202; Jan. 17; Sp. p. 4473; Gaz. vol. 162; p. 750.
Rowboat. L. M. Doan. No. 997,971; July 18; Sp. p. 2960; Gaz. vol. 168; p. 543.
Rowing apparatus. F. Kaselowsky. No. 1,006,561; Oct. 24; Sp. p. 4443; Gaz. vol. 171; p. 793.
Rowlock. O. Melbye. No. 985,049; Feb. 21; Sp. p. 3837; Gaz. vol. 163; p. 677.
Rowlock. L. Rothgery. No. 1,000,198; Aug. 8; Sp. p. 2090; Gaz. vol. 169; p. 372.
Rubber and the coating or facing of fabrics and the like with india-rubber, Manufacture of sheet india-. T. Gare. No. 986,162; Mar. 7; Sp. p. 846; Gaz. vol. 164; p. 136.
Rubber and the like and the obtainment of by-products therefrom, Manufacture or purification of india-. C. Dreyfus, A. Friedl, and W. H. Bentley. No. 983,812; Feb. 7; Sp. p. 1178; Gaz. vol. 163; p. 190.
Rubber and the like, Manufacture of flexible material from india-. A. T. Collier. No. 1,000,781; Aug. 15; Sp. p. 3388; Gaz. vol. 169; p. 609.
Rubber and vulcanite, Reclamation of waste. W. H. Hyatt. No. 992,425; May 16; Sp. p. 3436; Gaz. vol. 166; p. 619.

Alphabetical list of inventions—Continued.

Rubber articles from old or waste rubber, Apparatus for the manufacture of. T. Gare. No. 1,002,667; Sept. 5; Sp. p. 1070; Gaz. vol. 170; p. 161.
Rubber balls, Machine for making hollow india-. F. H. Smith. No. 1,004,096; Sept. 26; Sp. p. 4238; Gaz. vol. 170; p. 755.
Rubber boot and shoe. H. C. Mason. No. 1,005,256; Oct. 10; Sp. p. 1485; Gaz. vol. 171; p. 270.
Rubber boot or shoe. A. D. Warner. No. 989,089; Apr. 11; Sp. p. 1683; Gaz. vol. 165; p. 292.
Rubber compounds and the like, Apparatus for treating. X. Gosselin. No. 1,009,504; Nov. 21; Sp. p. 4209; Gaz. vol. 172; p. 724.
Rubber-covered roll. I. F. Burnham. No. 996,970; July 4; Sp. p. 778; Gaz. vol. 168; p. 127.
Rubber-dam clamp. J. W. Ivory. No. 980,530; Jan. 3; Sp. p. 778; Gaz. vol. 162; p. 124.
Rubber disks, &c., Machine for cutting. J. A. Anderson. No. 988,616; Apr. 4; Sp. p. 705; Gaz. vol. 165; p. 112.
Rubber fabric. W. T. Bonner. No. 981,524; Jan. 10; Sp. p. 3048; Gaz. vol. 162; p. 497.
Rubber fabric. F. A. Headson. No. 989,967; Apr. 18; Sp. p. 3598; Gaz. vol. 165; p. 624.
Rubber footwear. M. C. Clark. No. 985,780; Mar. 7; Sp. p. 26; Gaz. vol. 164; p. 7.
Rubber, Forming articles from waste. J. Markus. No. 999,819; Aug. 8; Sp. p. 1236; Gaz. vol. 169; p. 242.
Rubber, gutta-percha, balata, and the like, Apparatus for removing foreign matter from india-. M. M. Dessau. No. 997,047; July 4; Sp. p. 969; Gaz. vol. 168; p. 155.
Rubber, gutta-percha, balata, &c., Apparatus for removing foreign matter from india-. M. M. Dessau. No. 999,100; July 25; Sp. p. 5475; Gaz. vol. 168; p. 974.
Rubber heel, Detachable. F. A. Nolan. No. 1,000,110; Aug. 8; Sp. p. 1899; Gaz. vol. 169; p. 342.
Rubber heel for boots and shoes, Detachable. C. H. Chapman. No. 987,047; Mar. 14; Sp. p. 2703; Gaz. vol. 164; p. 467.
Rubber hose, Manufacture of. H. Z. Cobb. No. 1,002,644; Sept. 5; Sp. p. 1028; Gaz. vol. 170; p. 15
Rubber-joint-making instrument. W. H. Welch. No. 1,009,002; Nov. 14; Sp. p. 3069; Gaz. vol. 172; p. 510.
Rubber, Machine for converting latex into sheets of crude. F. E. Mellinger and H. H. Markley. No. 1,008,607; Nov. 14; Sp. p. 2221; Gaz. vol. 172; p. 379.
Rubber or gutta-percha, Purifying. W. Elsner and O. Meyer. No. 1,003,244; Sept. 12; Sp. p. 2337; Gaz. vol. 170; p. 401.
Rubber or similar material to an impalpable powder, Machine for reducing. C. E. Gardner. No. 984,758; Feb. 21; Sp. p. 3278; Gaz. vol. 163; p. 578.
Rubber plate for shoes. J. P. Kline. No. 982,278; Jan. 24; Sp. p. 4672; Gaz. vol. 162; p. 808.
Rubber rings, Machine for cutting. W. P. McGeouch. No. 983,387; Feb. 7; Sp. p. 280; Gaz. vol. 163; p. 47.
Rubber shoes, Manufacture of. E. C. Gavin. No. 983,819; Feb. 7; Sp. p. 1187; Gaz. vol. 163; p. 191.
Rubber shoes, Manufacture of. P. Kane and A. B. Griggs. No. 1,011,807; Dec. 12; Sp. p. 3163; Gaz. vol. 173; p. 528.
Rubber sole. R. E. Foster. No. 984,806; Feb. 21; Sp. p. 3376; Gaz. vol. 163; p. 595.
Rubber stock, Desulfurizing and devulcanizing. W. W. Wildman and J. Christy. No. 993,485; May 30; Sp. p. 5697; Gaz. vol. 166; p. 1043.
Rubber-straining machines, Head for. J. W. Weir. No. 1,007,016; Oct. 24; Sp. p. 5408; Gaz. vol. 171; p. 948.
Rubber strips, Producing. J. F. Ott. No. 988,959; Apr. 4; Sp. p. 1392; Gaz. vol. 165; p. 224.
Rubber substitute, Manufacture of. N. Reif. No. 1,006,274; Oct. 17; Sp. p. 3764; Gaz. vol. 171; p. 662.
Rubber-tree-tapping knife. P. L. Barrenquy. No. 991,127; May 2; Sp. p. 634; Gaz. vol. 166; p. 108.
Rubber waste, Recovering. E. E. A. G. Meyer. No. 986,931; Mar. 14; Sp. p. 2484; Gaz. vol. 164; p. 430.
Rubber waste, Regeneration of india-. L. C. A. De Clercq. No. 1,011,759; Dec. 12; Sp. p. 3055; Gaz. vol. 173; p. 511.
Rubbers, Attaching means for. S. J. McCann. No. 1,002,723; Sept. 5; Sp. p. 1222; Gaz. vol. 170; p. 181.
Rubbing materials, Holder for pliant. C. N. Nelk. No. 997,577; July 11; Sp. p. 2030; Gaz. vol. 168; p. 362.
Rudder and brake for ships, Combined auxiliary. J. A. Watt. No. 988,233; Mar. 28; Sp. p. 5256; Gaz. vol. 164; p. 932.
Rudder, Double-acting. J. C. Christiansen. No. 999,959; Aug. 8; Sp. p. 1538; Gaz. vol. 169; p. 290.
Rudder-operating mechanism. F. Rouiss. No. 1,002,179; Aug. 29; Sp. p. 6330; Gaz. vol. 169; p. 1144.
Ruffling and folding attachment A. H. De Voe. No. 991,428; May 2; Sp. p. 1275; Gaz. vol. 166; p. 213.
Ruffling and stitching machine. A. H. De Voe. No. 983,031; Jan. 31; Sp. p. 6279; Gaz. vol. 162; p. 1092.
Ruffling and stitching machine. A. H. De Voe. No. 989,579; Apr. 18; Sp. p. 2755; Gaz. vol. 165; p. 491.
Ruffling and stitching machine. A. H. De Voe. No. 1,005,173; Oct. 10; Sp. p. 1281; Gaz. vol. 171; p. 239.
Rug and carpet holder. F. D. Seward and G. W. Raymond. No. 985,295; Feb. 28; Sp. p. 4421; Gaz. vol. 163; p. 796.
Rug and carpet holder. F. D. Seward and G. W. Raymond. No. 985,296; Feb. 28; Sp. p. 4422; Gaz. vol. 163; p. 796.
Rug cleaning and packaging machine. J. McClain. No. 1,009,432; Nov. 21; Sp. p. 4062; Gaz. vol. 172; p. 700.
Rug-fastener. O. P. Hyde. No. 992,357; May 16; Sp. p. 3307; Gaz. vol. 166; p. 595.
Rug, Imitation-fur. S. E. Creasey. No. 1,009,480; Nov. 21; Sp. p. 4155; Gaz. vol. 172; p. 716.
Rug stretching and finishing machine. J. McClain. No. 981,450; Jan. 10; Sp. p. 2917; Gaz. vol. 162; p. 472.
Rugs and carpets, Spring-frame for. E. O. McHenry. No. 1,007,301; Oct. 31; Sp. p. 6049; Gaz. vol. 171; p. 1104.
Rugs, pile fabrics, oriental carpets, and similar textiles, Treatment of. J. A. Boyajean. No. 980,752; Jan. 3; Sp. p. 1223; Gaz. vol. 162; p. 197.
Rule and level, Plumb. W. O. Graham. No. 988,705; Apr. 4; Sp. p. 905; Gaz. vol. 165; p. 143.
Rule and protractor, Combined. A. W. Sandelin. No. 981,598; Jan. 10; Sp. p. 3195; Gaz. vol. 162; p. 521.
Rule, bevel-square, gage, and compass, Combination. H. Backstrom. No. 1,009,214; Nov. 21; Sp. p. 3554; Gaz. vol. 172; p. 620.
Rule-cutting machine. J. A. Richards. No. 1,006,277; Oct. 17; Sp. p. 3769; Gaz. vol. 171; p. 663.
Rule, Folding steel. R. J. Simpson. No. 986,772; Mar. 14; Sp. p. 2153; Gaz. vol. 164; p. 375.
Rule-holder. A. C. G. Wahl. No. 989,213; Apr. 11; Sp. p. 1936; Gaz. vol. 165; p. 335.
Rule, Plumb-. H. Platt. No. 1,004,194; Sept. 26; Sp. p. 4462; Gaz. vol. 170; p. 790.
Rule, Slide-. G. H. Gibson. No. 980,412; Jan. 3; Sp. p. 479; Gaz. vol. 162; p. 83.
Rule, Slide-. G. W. Richardson. No. 982,876; Jan. 31; Sp. p. 5938; Gaz. vol. 162; p. 1041.
Rule, Slide-. B. T. Steber. No. 1,000,562; Aug. 15; Sp. p. 2894; Gaz. vol. 169; p. 531.
Rules, Apparatus for bending printers'. J. A. Richards. No. 998,394; July 18; Sp. p. 3924; Gaz. vol. 168; p. 695.
Rules, Device for holding plumb-. J. O. Swenson. No. 987,187; Mar. 21; Sp. p. 3017; Gaz. vol. 164; p. 547.
Rules, Magnifier for slide-. W. L. E. Keuffel. No. 996,039; June 20; Sp. p. 4226; Gaz. vol. 167; p. 734.
Rules, Support for plumb-. H. Platt. No. 1,003,499; Sept. 19; Sp. p. 2849; Gaz. vol. 170; p. 521.
Ruler. I. C. Walk. No. 986,611; Mar. 14; Sp. p. 1816; Gaz. vol. 164; p. 322.
Ruler and blotter, Combined. F. W. Muller, Jr. No. 999,177; July 25; Sp. p. 5605; Gaz. vol. 168; p. 997.
Ruler and drawing instrument E. Henschel. No 1,007,353; Oct. 31; Sp. p. 6155; Gaz. vol. 171; p. 1122.
Ruler, Compass-. J. V. Manz. No. 983,830; Feb. 7; Sp. p. 1237; Gaz. vol. 163; p. 197.
Ruler, Rolling parallel-. E. C. Holmes. No. 1,005,218; Oct. 10; Sp. p. 1383; Gaz. vol. 171; p. 255.
Ruling-machine. G. F. McAdams. No. 985,360; Feb. 28; Sp. p. 4550; Gaz. vol. 163; p. 817.
Ruling-machine. E. Weingärtner. No. 1,008,094; Nov. 7; Sp. p. 960; Gaz. vol. 172; p. 154.
Ruling-machine. C. A. Wright. No. 1,010,839; Dec. 5; Sp. p. 978; Gaz. vol. 173; p. 153.
Ruling-machine guide. R. A. Magill. No. 984,281; Feb. 14; Sp. p. 2250; Gaz. vol. 163; p. 380.
Runaways, Device for preventing. U. G. Phippen. No. 990,455; Apr. 25; Sp. p. 4689; Gaz. vol. 165; p. 824.
Running-gear. V. Martin. No. 997,631; July 11; Sp. p. 2155; Gaz. vol. 168; p. 382.
Sack-fastener, Safety. H. L. Lippert. No. 1,006,241; Oct. 17; Sp. p. 3697; Gaz. vol. 171; p. 650.
Sack filling and weighing machine, Automatic. E. D. Carter. No. 1,007,848; Nov. 7; Sp. p. 470; Gaz. vol. 172; p. 70.
Sack-holder. J. W. Vance. No. 983,185; Jan. 31; Sp. p. 6566; Gaz. vol. 162; p. 1142.
Sack-holder. C. F. Parr. No. 991,081; May 2; Sp. p. 528; Gaz. vol. 166; p. 91.
Sack-holder. B. J. Parson. No. 992,445; May 16; Sp. p. 3473; Gaz. vol. 166; p. 625.
Sack-holder. C. C. Skelton. No. 999,406; Aug. 1; Sp. p. 421; Gaz. vol. 169; p. 75.
Sack-holder. C. O'Neil. No. 1,005,289; Oct. 10; Sp. p. 1562; Gaz. vol. 171; p. 282.
Sacking and weighing machine, Automatic. J. F. Palmer. No. 1,010,308; Nov. 28; Sp. p. 5833; Gaz. vol. 172; p. 1039.
Sacking device. W. Eichner. No. 1,009,899; Nov. 28; Sp. p. 4992; Gaz. vol. 172; p. 901.
Sad-iron. J. Jowsky. No. 984,004; Feb. 14; Sp. p. 1646; Gaz. vol. 163; p. 284.
Sad-iron. H. W. Johnston and C. J. Heckmann. No. No. 989,157; Apr. 11; Sp. p. 1823; Gaz. vol. 165; p. 316.
Sad-iron. F. W. Russell. No. 989,877; Apr. 18; Sp. p. 3397; Gaz. vol. 165; p. 593.
Sad-iron. A. G. Judd. No. 994,467; June 6; Sp. p. 742; Gaz. vol. 167; p. 127.
Sad-iron. W. H. Roberts. No. 996,942; July 4; Sp. p. 714; Gaz. vol. 168; p. 117.
Sad-iron. R. W. Kremer. No. 999,319; Aug. 1; Sp. p. 238; Gaz. vol. 169; p. 44.
Sad-iron. E. H. Palmer. No. 1,005,459; Oct. 10; Sp. p. 1937; Gaz. vol. 171; p. 342.

Alphabetical list of inventions—Continued.

Sad-iron. F. W. Shaver. No. 1,006,299; Oct. 17; Sp. p. 3821; Gaz. vol. 171; p. 669.
Sad-iron. J. A. Coogan. No. 1,006,438; Oct. 17; Sp. p. 4112; Gaz. vol. 171; p. 717.
Sad-iron. W. F. Blake. No. 1,006,625; Oct. 24; Sp. p. 4574; Gaz. vol. 171; p. 815.
Sad-iron. D. F. Harmon. No. 1,007,197; Oct. 31; Sp. p. 5847; Gaz. vol. 171; p. 1067.
Sad-iron. E. C. Loetscher. No. 1,007,215; Oct. 31; Sp. p. 5879; Gaz. vol. 171; p. 1073.
Sad-iron. A. J. Haddad. No. 1,010,361; Nov. 28; Sp. p. 5941; Gaz. vol. 172; p. 1056.
Sad-iron, Gas-heated. C. and H. Hope. No. 993,524; May 30; Sp. p. 5782; Gaz. vol. 166; p. 1056.
Sad-iron, Gas-heated. H. A. Koenig. No. 997,198; July 4; Sp. p. 1259; Gaz. vol. 168; p. 205.
Sad-iron, Gas-heated. W. S. Darley. No. 1,000,497; Aug. 15; Sp. p. 2742; Gaz. vol. 169; p. 508.
Sad-iron handle. A. C. Williams. No. 998,315; July 18; Sp. p. 3759; Gaz. vol. 168; p. 668.
Sad-iron handle, Detachable. W. P. Pinel. No. 983,312; Feb. 7; Sp. p. 117; Gaz. vol. 163; p. 21.
Sad-iron heater. J. B. Gorgen. No. 988,187; Mar. 28; Sp. p. 5164; Gaz. vol. 164; p. 916.
Sad-iron pattern. U. G. Smith. No. 981,489; Jan. 10; Sp. p. 2983; Gaz. vol. 162; p. 485.
Sad-iron, Self-heating. W. W. Lewin. No. 981,204; Jan. 10; Sp. p. 2338; Gaz. vol. 162; p. 385.
Sad-iron, Self-heating. H. W. Schoff. No. 985,290; Feb. 28; Sp. p. 4414; Gaz. vol. 163; p. 794.
Sad-iron, Self-heating. J. H. Davis. No. 985,326; Feb. 28; Sp. p. 4480; Gaz. vol. 163; p. 806.
Sad-iron, Self-heating. C. S. Konigsberg. No. 1,000,820; Aug. 15; Sp. p. 3454; Gaz. vol. 169; p. 622.
Sad-iron shoe. E. H. Stoll. No. 990,922; May 2; Sp. p. 206; Gaz. vol. 166; p. 36.
Saddle. C. A. Persons. No. 981,939; Jan. 17; Sp. p. 3970; Gaz. vol. 162; p. 662.
Saddle. J. D. Love. No. 984,576; Feb. 21; Sp. p. 2879; Gaz. vol. 163; p. 513.
Saddle. C. A. Persons. No. 987,825; Mar. 28; Sp. p. 4364; Gaz. vol. 164; p. 795.
Saddle. J. H. Witt. No. 992,624; May 16; Sp. p. 3858; Gaz. vol. 166; p. 688.
Saddle. A. Bernstein. No. 1,011,401; Dec. 12; Sp. p. 2246; Gaz. vol. 173; p. 384.
Saddle and expansion-joint, Combined. J. P. Sheehan, J. J. Murray, and A. Booth. No. 998,926; July 25; Sp. p. 5095; Gaz. vol. 168; p. 914.
Saddle and post clamp. H. H. Smith. No. 999,897; Aug. 8; Sp. p. 1418; Gaz. vol. 169; p. 270.
Saddle-blanket and horse-cover, Combination. J. McComas and J. F. S. Howland. No. 1,001,542; Aug. 22; Sp. p. 4988; Gaz. vol. 169; p. 900.
Saddle, Cart-. A. D. Goetz. No. 1,001,840; Aug. 29; Sp. p. 5644; Gaz. vol. 169; p. 1033.
Saddle, Harness-. J. Scruby. No. 985,293; Feb. 28; Sp. p. 4419; Gaz. vol. 163; p. 795.
Saddle, Harness-. A. J. Simmons. No. 1,005,079; Oct. 3; Sp. p. 1088; Gaz. vol. 171; p. 183.
Saddle, Harness-. W. C. Trask. No. 1,008,755; Nov. 14; Sp. p. 2544; Gaz. vol. 172; p. 429.
Saddle, Harness-. M. E. Zeller. No. 1,012,313; Dec. 19; Sp. p. 4302; Gaz. vol. 173; p. 738.
Saddle, Riding-. L. P. Wellmann. No. 985,869; Mar. 7; Sp. p. 230; Gaz. vol. 164; p. 38.
Saddle, Running-board. W. P. Murphy. No. 989,028; Apr. 11; Sp. p. 1549; Gaz. vol. 165; p. 271.
Saddle, Running-board. W. P. Murphy. No. 1,011,233; Dec. 12; Sp. p. 1876; Gaz. vol. 173; p. 324.
Safe. S. W. Fish. No. 997,791; July 11; Sp. p. 2547; Gaz. vol. 168; p. 439.
Safe. J. E. Casserly. No. 1,001,817; Aug. 29; Sp. p. 5590; Gaz. vol. 169; p. 1025.
Safe. R. O. Carter. No. 1,011,027; Dec. 5; Sp. p. 1368; Gaz. vol. 173; p. 218.
Safe and drawer, Kitchen-. W. W. Atkinson. No. 992,103; May 9; Sp. p. 2667; Gaz. vol. 166; p. 475.
Safe and vault door. E. S. Pillard. No. 992,981; May 23; Sp. p. 4621; Gaz. vol. 166; p. 843.
Safe and vault door. E. S. Pillard. No. 1,001,221; Aug. 22; Sp. p. 4353; Gaz. vol. 169; p. 792.
Safe and vault door, Compound. S. W. Fish. No. 997,773; July 11; Sp. p. 2491; Gaz. vol. 168; p. 433.
Safe and vault protector, Combination. E. W. West. No. 1,004,321; Sept. 26; Sp. p. 4705; Gaz. vol. 170; p. 832.
Safe-deposit lock. W. H. Taylor. No. 993,908; May 30; Sp. p. 6589; Gaz. vol. 166; p. 1187.
Safe-deposit lock. J. J. Murphy. No. 996,726; July 4; Sp. p. 254; Gaz. vol. 168; p. 44.
Safe, Food-. W. R. Fitchet. No. 1,002,664; Sept. 5; Sp. p. 1067; Gaz. vol. 170; p. 160.
Safe-lock. W. A. Hood. No. 993,067; May 23; Sp. p. 4798; Gaz. vol. 166; p. 872.
Safe, Milk-bottle. J. M. Cooper and F. J. Prismall. No. 984,542; Feb. 21; Sp. p. 2811; Gaz. vol. 163; p. 502.
Safe, Milk-bottle. A. J. Cieslinskie and W. G. Whittle. No. 998,955; July 25; Sp. p. 5178; Gaz. vol. 168; p. 924.
Safe, Money-. J. Nutry. No. 982,688; Jan. 24; Sp. p. 5499; Gaz. vol. 162; p. 948.
Safe or vault. W. G. Norris. No. 991,228; May 2; Sp. p. 848; Gaz. vol. 166; p. 144.
Safe or vault. S. W. Fish. No. 997,771; July 11; Sp. p. 2480; Gaz. vol. 168; p. 432.
Safe or vault. S. W. Fish. No. 997,784; July 11; Sp. p. 2518; Gaz. vol. 168; p. 437.
Safe or vault. S. W. Fish. No. 997,785; July 11; Sp. p. 2520; Gaz. vol. 168; p. 437.
Safe or vault. S. W. Fish. No. 997,787; July 11; Sp. p. 2524; Gaz. vol. 168; p. 437.
Safe or vault. S. W. Fish. No. 997,792; July 11; Sp. p. 2551; Gaz. vol. 168; p. 439.
Safe or vault body. S. W. Fish. No. 997,783; July 11; Sp. p. 2517; Gaz. vol. 168; p. 437.
Safe or vault door. S. W. Fish. No. 997,776; July 11; Sp. p. 2498; Gaz. vol. 168; p. 434.
Safe or vault door. S. W. Fish. No. 997,777; July 11; Sp. p. 2500; Gaz. vol. 168; p. 434.
Safe or vault door. S. W. Fish. No. 997,778; July 11; Sp. p. 2503; Gaz. vol. 168; p. 434.
Safe or vault door. S. W. Fish. No. 997,779; July 11; Sp. p. 2505; Gaz. vol. 168; p. 435.
Safe or vault door. S. W. Fish. No. 997,780; July 11; Sp. p. 2508; Gaz. vol. 168; p. 435.
Safe or vault door. S. W. Fish. No. 997,781; July 11; Sp. p. 2511; Gaz. vol. 168; p. 435.
Safe or vault door. S. W. Fish. No. 997,782; July 11; Sp. p. 2514; Gaz. vol. 168; p. 436.
Safe or vault door. S. W. Fish. No. 997,794; July 11; Sp. p. 2557; Gaz. vol. 168; p. 440.
Safe or vault door. S. W. Fish. No. 997,795; July 11; Sp. p. 2562; Gaz. vol. 168; p. 440.
Safe or vault door, Compound. S. W. Fish. No. 997,772; July 11; Sp. p. 2487; Gaz. vol. 168; p. 433.
Safe or vault door, Compound. S. W. Fish. No. 997,774; July 11; Sp. p. 2493; Gaz. vol. 168; p. 433.
Safe or vault door, Compound. S. W. Fish. No. 997,775; July 11; Sp. p. 2496; Gaz. vol. 168; p. 434.
Safe or vault door holding means. S. W. Fish. No. 997,786; July 11; Sp. p. 2522; Gaz. vol. 168; p. 437.
Safe or vault door holding means. S. W. Fish. No. 997,790; July 11; Sp. p. 2545; Gaz. vol. 168; p. 439.
Safe or vault door holding or locking means. S. W. Fish and L. Layton. No. 997,793; July 11; Sp. p. 2553; Gaz. vol. 168; p. 440.
Safe or vault locking mechanism. S. W. Fish. No. 997,788; July 11; Sp. p. 2527; Gaz. vol. 168; p. 438.
Safe or vault locking mechanism. S. W. Fish. No. 997,789; July 11; Sp. p. 2538; Gaz. vol. 168; p. 438.
Safe protective means. W. Weikel. No. 994,046; May 30; Sp. p. 6877; Gaz. vol. 166; p. 1235.
Safe, Wall-. H. C. Lowrie. No. 980,305; Jan. 3; Sp. p. 237; Gaz. vol. 162; p. 45.
Safe, Wall-. A. J. Anderson. No. 990,469; Apr. 25; Sp. p. 4716; Gaz. vol. 165; p. 829.
Safety-can. A. E. Holmes. No. 1,011,198; Dec. 12; Sp. p. 1792; Gaz. vol. 173; p. 313.
Safety-can for hydrocarbon liquids. F. J. Becker. No. 986,429; Mar. 14; Sp. p. 1429; Gaz. vol. 164; p. 258.
Safety-clamp. W. W. Gammon. No. 983,273; Feb. 7; Sp. p. 32; Gaz. vol. 163; p. 7.
Safety device. C. H. Williams. No. 980,721; Jan. 3; Sp. p. 1174; Gaz. vol. 162; p. 187.
Safety device. H. G. Hillman. No. 981,423; Jan. 10; Sp. p. 2868; Gaz. vol. 162; p. 463.
Safety device. J. C. Meloon. No. 994,860; June 13; Sp. p. 1684; Gaz. vol. 167; p. 302.
Safety device, Automatic. I. C. Dakin. No. 992,858; May 23; Sp. p. 4347; Gaz. vol. 166; p. 799.
Safety-gate. J. Jones. No. 986,574; Mar. 14; Sp. p. 1738; Gaz. vol. 164; p. 308.
Safety-guard. J. M. Jones. No. 1,001,858; Aug. 29; Sp. p. 5682; Gaz. vol. 169; p. 1040.
Safety-guide. P. Sheehan. No. 1,001,898; Aug. 29; Sp. p. 5782; Gaz. vol. 169; p. 1054.
Safety-hook. F. E. Cottrell. No. 996,619; July 4; Sp. p. 53; Gaz. vol. 168; p. 10.
Safety-hook. R. Lange. No. 1,010,270; Nov. 28; Sp. p. 5736; Gaz. vol. 172; p. 1026.
Safety-lock. A. J. Perrin. No. 982,689; Jan. 24; Sp. p. 5500; Gaz. vol. 162; p. 949.
Safety-lock. A. Frederiksen. No. 1,000,504; Aug. 15; Sp. p. 2755; Gaz. vol. 169; p. 510.
Safety-lock. A. Zola. No. 1,011,703; Dec. 12; Sp. p. 2943; Gaz. vol. 173; p. 492.
Safety or braking device for apparatus driven by fluids under pressure. J. H. Debauche. No. 993,967; May 30; Sp. p. 6710; Gaz. vol. 166; p. 1207.
Safety-pin. J. M. Wright. No. 984,409; Feb. 14; Sp. p. 2487; Gaz. vol. 163; p. 421.
Safety-pin. G. D. Soderberg. No. 987,758; Mar. 28; Sp. p. 4220; Gaz. vol. 164; p. 771.
Safety-pin. B. Barker. No. 996,046; June 27; Sp. p. 4246; Gaz. vol. 167; p. 772.
Safety-pin. M. T. Goldsmith. No. 996,639; July 4; Sp. p. 97; Gaz. vol. 168; p. 17.
Safety-pin. L. Falstrem and C. Burkland. No. 1,004,398; Sept. 26; Sp. p. 4855; Gaz. vol. 170; p. 858.
Safety-pin. A. Collins. No. 1,008,956; Nov. 14; Sp. p. 2961; Gaz. vol. 172; p. 494.

Sage-brush-cutting and lateral-ditching machine. Combined. G. F. Mahoney and T. L. Durant. No. 987,387; Mar. 21; Sp. p. 3442; Gaz. vol. 164; p. 616.
Sal-ammoniac skimmings, Treatment of. G. Rigg. No. 1,002,317; Sept. 5; Sp. p. 301; Gaz. vol. 170; p. 42.
Sales-pad holder, Manifolding-. E. L. Mooney. No. 994,328; June 6; Sp. p. 464; Gaz. vol. 167; p. 80.
Saliva-ejector. W. P. De Witt. No. 1,012,613; Dec. 26; Sp. p. 4911; Gaz. vol. 173; p. 884.
Salt and other substances, Melting and purifying. E. R. Royston. No. 997,857; July 11; Sp. p. 2688; Gaz. vol. 168; p. 462.
Salt and pepper shaker. H. H. Huffman. No. 993,999; May 30; Sp. p. 6782; Gaz. vol. 166; p. 1218.
Salt and pepper shaker. H. Hedrich. No. 997,060; July 4; Sp. p. 995; Gaz. vol. 168; p. 159.
Salt and pepper shaker. A. Hanke. No. 1,005,705; Oct. 10; Sp. p. 2497; Gaz. vol. 171; p. 428.
Salt and pepper shaker. W. G. Kraft. No. 1,007,294; Oct. 31; Sp. p. 6038; Gaz. vol. 171; p. 1102.
Salt and recovering its impurities as by-products, Refining. C. Glaser and G. J. Muller. (Reissue.) No. 13,268; July 11; Sp. p. 2888; Gaz. vol. 168; p. 493.
Salt from brines by evaporation, Manufacturing. S. M. Lillie. No. 988,002; Mar. 28; Sp. p. 4802; Gaz. vol. 164; p. 856.
Salt-making. H. Frasch. No. 1,006,195; Oct. 17; Sp. p. 3575; Gaz. vol. 171; p. 633.
Salt-making. H. Frasch. No. 1,006,196; Oct. 17; Sp. p. 3578; Gaz. vol. 171; p. 633.
Salt, Means for providing cattle with. C. L. Weil. No. 1,009,361; Nov. 21; Sp. p. 3877; Gaz. vol. 172; p. 674.
Salt of the optically-active laevo-o-dioxyphenylethanolmethylamin. F. Flaecher. No. 986,156; Mar. 7; Sp. p. 827; Gaz. vol. 164; p. 135.
Salt-shaker. W. H. Vance. No. 981,333; Jan. 10; Sp. p. 2653; Gaz. vol. 162; p. 432.
Salt, Treating. E. R. Royston. No. 989,056; Apr. 11; Sp. p. 1608; Gaz. vol. 165; p. 282.
Salts, Making phenylglycin. K. Schnitzspahn. No. 1,011,500; Dec. 12; Sp. p. 2472; Gaz. vol. 173; p. 421.
Salts non-deliquescent, Rendering commercial. S. Peacock. No. 1,009,560; Nov. 21; Sp. p. 4313; Gaz. vol. 172; p. 743.
Salts of hydrated cupric oxid, Making. C. R. Linkmeyer. No. 1,000,827; Aug. 15; Sp. p. 3465; Gaz. vol. 169; p. 624.
Salts, Process and apparatus for the electrolytic decomposition of alkaline. J. Greenwood. No. 984,905; Feb. 21; Sp. p. 3555; Gaz. vol. 163; p. 628.
Sand and slime separator. S. J. Tennal. No. 1,004,105; Sept. 26; Sp. p. 4260; Gaz. vol. 170; p. 759.
Sand-band. G. A. Nelson. No. 992,978; May 23; Sp. p. 4615; Gaz. vol. 166; p. 842.
Sand-blast apparatus. C. W. Ebeling. No. 984,753; Feb. 21; Sp. p. 3267; Gaz. vol. 163; p. 577.
Sand-blast apparatus. J. E. Wright. No. 993,743; May 30; Sp. p. 6280; Gaz. vol. 166; p. 1133.
Sand-blast apparatus. J. D. Murray. No. 998,111; July 18; Sp. p. 3290; Gaz. vol. 168; p. 593.
Sand-blasting nozzle. J. P. Walsh. No. 990,409; Apr. 25; Sp. p. 4585; Gaz. vol. 165; p. 808.
Sand-conveying apparatus. R. F. Herr. No. 995,406; June 13; Sp. p. 2848; Gaz. vol. 167; p. 483.
Sand-drier. W. Yeo. No. 980,387; Jan. 3; Sp. p. 426; Gaz. vol. 162; p. 74.
Sand-drier. F. J. Hull. No. 1,004,029; Sept. 26; Sp. p. 4053; Gaz. vol. 170; p. 731.
Sand-drier. B. I. Larsen. No. 1,009,422; Nov. 21; Sp. p. 4038; Gaz. vol. 172; p. 697.
Sand-drier, Rotary. S. J. Bingham. No. 997,896; July 11; Sp. p. 2780; Gaz. vol. 168; p. 475.
Sand-drier, Steam. W. R. Husk. No. 980,271; Jan. 3; Sp. p. 171; Gaz. vol. 162; p. 33.
Sand-mill. G. Mowry. No. 1,005,738; Oct. 10; Sp. p. 2557; Gaz. vol. 171; p. 439.
Sand-molding apparatus. W. M. Duncan. No. 1,006,449; Oct. 17; Sp. p. 4145; Gaz. vol. 171; p. 721.
Sand-molding machine. W. C. Winfield. No. 994,626; June 6; Sp. p. 1085; Gaz. vol. 167; p. 181.
Sand or the like distributer. W. Huber. No. 1,000,004; Aug. 8; Sp. p. 1628; Gaz. vol. 169; p. 306.
Sand-rock, Treating bituminous. H. F. Williams. No. 983,851; Feb. 7; Sp. p. 1273; Gaz. vol. 163; p. 204.
Sanding, abrading, or polishing machine. F. Schimmel. No. 991,901; May 9; Sp. p. 2285; Gaz. vol. 166; p. 407.
Sanding device. E. S. Burke. No. 1,002,365; Sept. 5; Sp. p. 437; Gaz. vol. 170; p. 61.
Sanding-machine. J. A. Sagerdahl. No. 1,000,296; Aug. 8; Sp. p. 2291; Gaz. vol. 169; p. 406.
Sanding-machine and the like. J. Maher. No. 994,594; June 6; Sp. p. 1019; Gaz. vol. 167; p. 170.
Sanding-wheel. S. A. Dobyne. No. 999,436; Aug. 1; Sp. p. 482; Gaz. vol. 169; p. 84.
Sandpaper or sand-belts, Apparatus for cleaning. H. Heady. No. 986,170; Mar. 7; Sp. p. 860; Gaz. vol. 164; p. 139.
Sandpapering-machine. W. S. Kelley. No. 995,540; June 20; Sp. p. 3143; Gaz. vol. 167; p. 559.
Sandpapering-machine. O. C. Wysong. No. 996,443; June 27; Sp. p. 5179; Gaz. vol. 167; p. 907.
Sandpapering-machine. W. S. Kelley. No. 1,012,651; Dec. 26; Sp. p. 4996; Gaz. vol. 173; p. 897.
Sandpapering machine, Belt-. D. V. Hodd. No. 1,010,761; Dec. 5; Sp. p. 816; Gaz. vol. 173; p. 127.
Sandpapering-roller. A. A. Bagalio. No. 982,774; Jan. 24; Sp. p. 5694; Gaz. vol. 162; p. 976.
Sandal. N. Hernández. No. 1,001,397; Aug. 22; Sp. p. 4732; Gaz. vol. 169; p. 853.
Sandal. D. W. Chase. No. 1,012,245; Dec. 19; Sp. p. 4162; Gaz. vol. 173; p. 714.
Sanitary system. J. G. B. Ewing. No. 1,009,395; Nov. 21; Sp. p. 3976; Gaz. vol. 172; p. 687.
Sanitary trap. J. W. McAuliffe. No. 997,309; July 11; Sp. p. 1509; Gaz. vol. 168; p. 274.
Santalol compound. F. S. Mason. No. 1,007,587; Oct. 31; Sp. p. 6678; Gaz. vol. 171; p. 1203.
Sapphire, Synthetic. A. V. L. Verneuil. No. 1,004,505; Sept. 26; Sp. p. 5082; Gaz. vol. 170; p. 895.
Sapphires, Producing synthetic. A. V. L. Verneuil. No. 988,230; Mar. 28; Sp. p. 5250; Gaz. vol. 164; p. 931.
Sash and door holding means, Portable. R. Hoel. No. 986,289; Mar. 7; Sp. p. 1104; Gaz. vol. 164; p. 178.
Sash antirattling device, Window-. O. Hammarlund. No. 983,618; Feb. 7; Sp. p. 780; Gaz. vol. 163; p. 124.
Sash, Automatic weatherproof. G. L. Body. No. 1,008,113; Nov. 7; Sp. p. 1001; Gaz. vol. 172; p. 162.
Sash-balance. J. F. Gambill and F. M. Woods. No. 982,048; Jan. 17; Sp. p. 4195; Gaz. vol. 162; p. 699.
Sash-balance. J. F. Gambill and F. M. Woods. No. 998,572; July 18; Sp. p. 4278; Gaz. vol. 168; p. 756.
Sash-balance. E. J. O'Leary. No. 1,006,264; Oct. 17; Sp. p. 3740; Gaz. vol. 171; p. 657.
Sash-balance. M. J. Duffy. No. 1,010,130; Nov. 28; Sp. p. 5473; Gaz. vol. 172; p. 981.
Sash balance and antirattler, Combined. C. R., A., and O. J. Scharlandt. No. 982,637; Jan. 24; Sp. p. 5397; Gaz. vol. 162; p. 931.
Sash balance and fastener, Combined. J. Menegus. No. 1,008,846; Nov. 14; Sp. p. 2732; Gaz. vol. 172; p. 460.
Sash balance and lock. T. E. Huffman. No. 989,710; Apr. 18; Sp. p. 3035; Gaz. vol. 165; p. 534.
Sash balance, Window-. H. E. Franks and A. Geerdts. No. 1,006,643; Oct. 24; Sp. p. 4604; Gaz. vol. 171; p. 820.
Sash-balancing construction. W. Elmer, Jr. No. 982,487; Jan. 24; Sp. p. 5111; Gaz. vol. 162; p. 882.
Sash-balancing device. J. J. Gilroy. No. 1,002,145; Aug. 29; Sp. p. 6267; Gaz. vol. 169; p. 1133.
Sash-balancing mechanism. I. Lasersohn. No. 981,093; Jan. 10; Sp. p. 2093; Gaz. vol. 162; p. 346.
Sash-balancing mechanism. I. Lasersohn. No. 1,007,212; Oct. 31; Sp. p. 5875; Gaz. vol. 171; p. 1073.
Sash-bar for glass structures. J. H. Beamish. No. 1,000,887; Aug. 15; Sp. p. 3597; Gaz. vol. 169; p. 647.
Sash-bar or rafter. R. O. King. No. 1,008,343; Nov. 14; Sp. p. 1551; Gaz. vol. 172; p. 283.
Sash-bars and die for forming same, Making. H. Ritter. No. 1,004,083; Sept. 26; Sp. p. 4209; Gaz. vol. 170; p. 751.
Sash-center. H. Yoe. No. 992,326; May 16; Sp. p. 3221; Gaz. vol. 166; p. 584.
Sash-center. H. F. Yoe. No. 1,012,498; Dec. 19; Sp. p. 4663; Gaz. vol. 173; p. 800.
Sash-chain fastener. J. J. Cooney. No. 987,700; Mar. 28; Sp. p. 4097; Gaz. vol. 164; p. 752.
Sash construction. G. H. Forsyth. No. 994,142; June 6; Sp. p. 78; Gaz. vol. 167; p. 16.
Sash construction. W. M. Goldsmith. No. 1,005,826; Oct. 17; Sp. p. 2751; Gaz. vol. 171; p. 501.
Sash construction, Metallic-window-. W. Schmidt. No. 988,900; Apr. 4; Sp. p. 1275; Gaz. vol. 165; p. 204.
Sash construction, Metallic-window-. G. H. Riddell and W. J. Rowe. No. 1,012,015; Dec. 19; Sp. p. 3644; Gaz. vol. 173; p. 636.
Sash-cord attachment. A. G. Bagnall. No. 999,292; Aug. 1; Sp. p. 186; Gaz. vol. 169; p. 35.
Sash-cord fastener. H. Brown and R. Barton. No. 1,011,734; Dec. 12; Sp. p. 3011; Gaz. vol. 173; p. 502.
Sash-cord guide. J. R. Caldwell. No. 988,972; Apr. 11; Sp. p. 1423; Gaz. vol. 165; p. 252.
Sash-cord guide. J. P. O'Reilly. No. 1,000,288; Aug. 8; Sp. p. 2276; Gaz. vol. 169; p. 403.
Sash-fastener. F., T., and W. Shore. No. 987,409; Mar. 21; Sp. p. 3493; Gaz. vol. 164; p. 624.
Sash-fastener. E. and S. P. Patenaude. No. 988,655; Apr. 4; Sp. p. 786; Gaz. vol. 165; p. 126.
Sash-fastener. J. H. Bobbitt. No. 991,416; May 2; Sp. p. 1256; Gaz. vol. 166; p. 210.
Sash-fastener. A. C. J. Roy. No. 999,595; Aug. 1; Sp. p. 789; Gaz. vol. 169; p. 137.
Sash-fastener. R. Ware. No. 1,006,030; Oct. 17; Sp. p. 3196; Gaz. vol. 171; p. 574.
Sash-fastener. I. M. Deppen. No. 1,006,365; Oct. 17; Sp. p. 3973; Gaz. vol. 171; p. 692.
Sash-fastener. I. G. French. No. 1,009,497; Nov. 21; Sp. p. 4191; Gaz. vol. 172; p. 721.
Sash-fastener. W. O. Fleming. No. 1,011,599; Dec. 12; Sp. p. 2729; Gaz. vol. 173; p. 458.
Sash-fastener. S. J. Prater. No. 1,011,846; Dec. 12; Sp. p. 3258; Gaz. vol. 173; p. 540.

Alphabetical list of inventions—Continued.

Sash fastener, Window-. E. R. Welker. No. 1,003,386; Sept. 12; Sp. p. 2615; Gaz. vol. 170; p. 449.
Sash-fastening. J. G. Wainwright. No. 982,699; Jan. 24; Sp. p. 5528; Gaz. vol. 162; p. 952.
Sash-fastening device. W. F. O'Rourke. No. 984,594; Feb. 21; Sp. p. 2921; Gaz. vol. 163; p. 519.
Sash-fastening device, Storm-. J. F. Adams. No. 982,169; Jan. 17; Sp. p. 4411; Gaz. vol. 162; p. 739.
Sash-fixture. A. Weber. No. 1,012,774; Dec. 26; Sp. p. 5252; Gaz. vol. 173; p. 941.
Sash-frame for windows, Swinging. L. Morel. No. 989,863; Apr. 18; Sp. p. 3369; Gaz. vol. 165; p. 588.
Sash-governing appliance. E. R. Leonard. No. 1,008,041; Nov. 7; Sp. p. 851; Gaz. vol. 172; p. 136.
Sash-hanger. P. Weingardt. No. 980,577; Jan. 3; Sp. p. 873; Gaz. vol. 162; p. 140.
Sash-hanger. G. W. Warner. No. 1,007,406; Oct. 31; Sp. p. 6271; Gaz. vol. 171; p. 1141.
Sash-holder. J. F. Bjurlund. No. 983,475; Feb. 7; Sp. p. 471; Gaz. vol. 163; p. 75.
Sash-holder. Z. A. and A. K. Mills. No. 994,267; June 6; Sp. p. 343; Gaz. vol. 167; p. 59.
Sash-holder. C. H. Westen. No. 1,001,233; Aug. 22; Sp. p. 4382; Gaz. vol. 169; p. 797.
Sash-holder. J. Anstice. No. 1,011,006; Dec. 5; Sp. p. 1327; Gaz. vol. 173; p. 211.
Sash holder, Window-. C. W. Cook. No. 999,434; Aug. 1; Sp. p. 480; Gaz. vol. 169; p. 84.
Sash-lifting appliance for vertically-movable and swinging windows. B. Hausmann. No. 997,387; July 11; Sp. p. 1655; Gaz. vol. 168; p. 300.
Sash-lock. L. Trafelet. No. 980,574; Jan. 3; Sp. p. 868; Gaz. vol. 162; p. 139.
Sash-lock. D. M. Barr. No. 982,783; Jan. 31; Sp. p. 5720; Gaz. vol. 162; p. 1009.
Sash-lock. C. W. Way. No. 983,588; Feb. 7; Sp. p. 726; Gaz. vol. 163; p. 113.
Sash-lock. D. E. Sampson. No. 983,935; Feb. 14; Sp. p. 1483; Gaz. vol. 163; p. 261.
Sash-lock. M. L. Blinn. No. 985,652; Feb. 28; Sp. p. 5193; Gaz. vol. 163; p. 918.
Sash-lock. F. L. Wissman. No. 986,337; Mar. 7; Sp. p. 1209; Gaz. vol. 164; p. 195.
Sash-lock. E. A. Donat. No. 986,555; Mar. 14; Sp. p. 1701; Gaz. vol. 164; p. 301.
Sash-lock. W. K. Dare. No. 987,285; Mar. 21; Sp. p. 3228; Gaz. vol. 164; p. 582.
Sash-lock. W. H. Dow. No. 987,558; Mar. 21; Sp. p. 3767; Gaz. vol. 164; p. 673.
Sash-lock. P. J. La Belle. No. 988,114; Mar. 28; Sp. p. 5035; Gaz. vol. 164; p. 893.
Sash-lock. G. Scollard. No. 989,653; Apr. 18; Sp. p. 2925; Gaz. vol. 165; p. 515.
Sash-lock. E. Le Boeuf. No. 989,987; Apr. 18; Sp. p. 3647; Gaz. vol. 165; p. 631.
Sash-lock. J. B. Johnson. No. 992,777; May 23; Sp. p. 4160; Gaz. vol. 166; p. 769.
Sash-lock. H. Kaslopsky. No. 992,878; May 23; Sp. p. 4389; Gaz. vol. 166; p. 806.
Sash-lock. C. A. Hunt. No. 994,001; May 30; Sp. p. 6786; Gaz. vol. 166; p. 1219.
Sash-lock. M. J. Carter. No. 995,429; June 13; Sp. p. 2916; Gaz. vol. 167; p. 492.
Sash-lock. W. B. Weaver. No. 997,876; July 11; Sp. p. 2728; Gaz. vol. 168; p. 468.
Sash-lock. J. F., M. J., and L. D. Schwer. No. 1,004,477; Sept. 26; Sp. p. 5029; Gaz. vol. 170; p. 885.
Sash-lock. C. H. Snider. No. 1,007,398; Oct. 31; Sp. p. 6258; Gaz. vol. 171; p. 1139.
Sash-lock. J. A. Obenchain. No. 1,012,418; Dec. 19; Sp. p. 4508; Gaz. vol. 173; p. 772.
Sash lock and lift. E. Brombacher. No. 989,483; Apr. 11; Sp. p. 2510; Gaz. vol. 165; p. 425.
Sash lock and opener, Combined. C. D. Tabor. No. 987,330; Mar. 21; Sp. p. 3324; Gaz. vol. 164; p. 597.
Sash lock, Swing-. M. Petrovics. No. 986,084; Mar. 7; Sp. p. 702; Gaz. vol. 164; p. 112.
Sash lock, Window-. M. Long. No. 983,732; Feb. 7; Sp. p. 1016; Gaz. vol. 163; p. 162.
Sash lock, Window-. F. W. Chausse. No. 1,006,357; Oct. 17; Sp. p. 3953; Gaz. vol. 171; p. 689.
Sash, Metal. G. H. Forsyth. No. 980,937; Jan. 10; Sp. p. 1679; Gaz. vol. 162; p. 291.
Sash, Metal window-. J. T. Leonard. No. 998,621; July 25; Sp. p. 4396; Gaz. vol. 168; p. 805.
Sash, Metal window-. E. A. Sanders. No. 1,004,545; Sept. 26; Sp. p. 5161; Gaz. vol. 170; p. 908.
Sash, Metallic. A. W. L. Hartbauer. No. 985,800; Mar. 7; Sp. p. 64; Gaz. vol. 164; p. 14.
Sash, Metallic window-. W. F. Bonness. No. 981,972; Jan. 17; Sp. p. 4035; Gaz. vol. 162; p. 673.
Sash, Metallic window-. W. E. Ulrich. No. 991,042; May 2; Sp. p. 447; Gaz. vol. 166; p. 77.
Sash, Metallic window-. W. Schmidt. No. 999,193; July 25; Sp. p. 5638; Gaz. vol. 168; p. 1003.
Sash, Metallic window-. E. Johnson. No. 1,012,138; Dec. 19; Sp. p. 3925; Gaz. vol. 173; p. 679.
Sash-operating device. J. E. Jones. No. 1,007,053; Nov. 7; Sp. p. 690; Gaz. vol. 172; p. 107.
Sash-pivot. F. Rausch and J. Davis. No. 988,286; Mar. 28; Sp. p. 5364; Gaz. vol. 164; p. 949.
Sash, Pivoted window-. C. B. Post. No. 1,012,704; Dec. 26; Sp. p. 5110; Gaz. vol. 173; p. 916.
Sash-pulley casings, Manufacturing sheet-metal side plates for. A. Johnston. No. 994,930; June 13; Sp. p. 1852; Gaz. vol. 167; p. 325.
Sash-pulley casings, Press for making side plates for. A. Johnston. No. 994,929; June 13; Sp. p. 1849; Gaz. vol. 167; p. 325.
Sash, Reversible window-. C. O. Kuehny. No. 999,802; Aug. 8; Sp. p. 1208; Gaz. vol. 169; p. 237.
Sash structure. E. M. Baker. No. 987,034; Mar. 14; Sp. p. 2674; Gaz. vol. 164; p. 463.
Sash-suspension device. M. Dobson. No. 995,335; June 13; Sp. p. 2682; Gaz. vol. 167; p. 460.
Sash ventilation-lock, Window-. C. E. Mason. No. 1,007,300; Oct. 31; Sp. p. 6049; Gaz. vol. 171; p. 1103.
Sash-weight die. W. Clarkson. No. 995,325; June 13; Sp. p. 2626; Gaz. vol. 167; p. 455.
Sash-weight mold. F. H. Hamilton. No. 994,388; June 6; Sp. p. 607; Gaz. vol. 167; p. 103.
Sash-weights, Apparatus for molding seamless. A. S. Hodges. No. 982,817; Jan. 31; Sp. p. 5796; Gaz. vol. 162; p. 1021.
Sash-weights, Apparatus for molding seamless. A. S. Hodges. No. 987,299; Mar. 21; Sp. p. 3260; Gaz. vol. 164; p. 587.
Sash-weights, Molding. A. S. Hodges. No. 982,818; Jan. 31; Sp. p. 5800; Gaz. vol. 162; p. 1021.
Sash, Window-. F. M. Brown. No. 981,374; Jan. 10; Sp. p. 2743; Gaz. vol. 162; p. 445.
Sash, Window-. E. McElaney and J. E. Malloy. No. 984,384; Feb. 14; Sp. p. 2448; Gaz. vol. 163; p. 414.
Sash, Window-. J. H. Tyler. No. 992,393; May 16; Sp. p. 3377; Gaz. vol. 166; p. 608.
Sash, Window-. R. W. Ivey. No. 997,677; July 11; Sp. p. 2253; Gaz. vol. 168; p. 398.
Sash, Window-. W. J. Klemm. No. 1,000,094; Aug. 8; Sp. p. 1861; Gaz. vol. 169; p. 336.
Sash, Window-. N. W. Hartman. No. 1,002,396; Sept. 5; Sp. p. 508; Gaz. vol. 170; p. 71.
Sash, Window-. F. Quilty and W. H. Haskins. No. 1,009,571; Nov. 21; Sp. p. 4341; Gaz. vol. 172; p. 747.
Sash, Window-. J. H. Stripe. No. 1,009,598; Nov. 21; Sp. p. 4379; Gaz. vol. 172; p. 755.
Sashes and frames, Blank for making metallic window. F. H. Crittall. No. 1,002,228; Sept. 5; Sp. p. 80; Gaz. vol. 170; p. 9.
Sashes of greenhouses, &c., Lifter for. D. Iliffe. No. 982,500; Jan. 24; Sp. p. 5142; Gaz. vol. 162; p. 886.
Sashes, Pivot for deck-. J. R. Burrows. No. 1,012,324; Dec. 19; Sp. p. 4321; Gaz. vol. 173; p. 742.
Sashes, Securing flexible material to window-. O. M. Edwards. No. 997,256; July 4; Sp. p. 1379; Gaz. vol. 168; p. 226.
Saturating and crushing machine. B. Hosmann. No. 983,055; Jan. 31; Sp. p. 6339; Gaz. vol. 162; p. 1101.
Saucepan. M. I. M. Hanlon and W. Eland. No. 1,004,423; Sept. 26; Sp. p. 4912; Gaz. vol. 170; p. 866.
Sausage-linking machine. J. A. Lidback. No. 1,004,580; Oct. 3; Sp. p. 61; Gaz. vol. 171; p. 13.
Sausage-machine. J. L. Boyle. No. 994,714; June 13; Sp. p. 1328; Gaz. vol. 167; p. 251.
Sausage-making machine. K. Kather. No. 999,311; Aug. 1; Sp. p. 225; Gaz. vol. 169; p. 42.
Sausage-stuffing machine. W. H. Bazley. No. 1,002,487; Sept. 5; Sp. p. 695; Gaz. vol. 170; p. 101.
Sausage-stuffing-machine nozzle. E. C. Gunuskey. No. 990,547; Apr. 25; Sp. p. 4909; Gaz. vol. 165; p. 856.
Sausages, Making. J. L. Boyle. No. 1,009,953; Nov. 28; Sp. p. 5101; Gaz. vol. 172; p. 920.
Saw. M. W. Sizemore. No. 991,249; May 2; Sp. p. 902; Gaz. vol. 166; p. 153.
Saw. C. F. Jacobs. No. 1,006,558; Oct. 24; Sp. p. 4438; Gaz. vol. 171; p. 792.
Saw-adjusting means. B. D. Stevens. No. 1,001,783; Aug. 29; Sp. p. 5516; Gaz. vol. 169; p. 1013.
Saw and trimmer, Combined metal. K. Hoepfner. No. 1,007,355; Oct. 31; Sp. p. 6158; Gaz. vol. 171; p. 1123.
Saw and trimmer, Metal. H. G. Miller. No. 985,272; Feb. 28; Sp. p. 4375; Gaz. vol. 163; p. 788.
Saw, Angle-. L. H. Woodcock and C. Borene. No. 983,338; Feb. 7; Sp. p. 171; Gaz. vol. 163; p. 30.
Saw base, Gang-. T. S. Wilkin. No. 996,183; June 27; Sp. p. 4588; Gaz. vol. 167; p. 818.
Saw-blade, Circular. G. N. Williams, Jr., and J. Tinlin. (Reissue.) No. 13,300; Oct. 24; Sp. p. 5467; Gaz. vol. 171; p. 958.
Saw, Chain. D. E. Crouch. No. 1,004,245; Sept. 26; Sp. p. 4565; Gaz. vol. 170; p. 807.
Saw-clamp. E. C. Stearns. No. 983,176; Jan. 31; Sp. p. 6551; Gaz. vol. 162; p. 1139.
Saw-clamp. E. Melaun. No. 1,003,772; Sept. 19; Sp. p. 3469; Gaz. vol. 170; p. 617.
Saw-clamp. A. T. Binkerd. No. 1,009,016; Nov. 14; Sp. p. 3097; Gaz. vol. 172; p. 515.
Saw clamp, Buzz-. J. Russell. No. 985,209; Feb. 28; Sp. p. 4224; Gaz. vol. 163; p. 766.
Saw-clamping device. K. J. G. Dahl. No. 1,003,991; Sept. 26; Sp. p. 3965; Gaz. vol. 170; p. 718.

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Saw cleaner, Gin-. H. J. Fitzpatrick. No. 1,006,839; Oct. 24; Sp. p. 5046; Gaz. vol. 171; p. 889.
Saw, Combination-. H. Eweler. No. 1,011,042; Dec. 5; Sp. p. 1397; Gaz. vol. 173; p. 223.
Saw, Drag-. J. H. Schmidt. No. 993,884; May 30; Sp. p. 6553; Gaz. vol. 166; p. 1181.
Saw dresser, Band-. F. P. Smith. No. 1,002,769; Sept. 5; Sp. p. 1309; Gaz. vol. 170; p. 197.
Saw-filing attachment. G. Kelly. No. 1,002,280; Sept. 5; Sp. p. 214; Gaz. vol. 170; p. 28.
Saw-filing device. W. Farrah. No. 1,011,178; Dec. 12; Sp. p. 1756; Gaz. vol. 173; p. 306.
Saw-filing machine. C. F. Hobson. No. 997,817; July 11; Sp. p. 2611; Gaz. vol. 168; p. 448.
Saw-frame. R. Howard. No. 990,133; Apr. 18; Sp. p. 3928; Gaz. vol. 165; p. 678.
Saw frame, Gang-. T. S. Wilkin. No. 1,001,491; Aug. 22; Sp. p. 4893; Gaz. vol. 169; p. 883.
Saw-frames, Blade-clamp for. R. Coffron. No. 990,839; May 2; Sp. p. 22; Gaz. vol. 166; p. 6.
Saw-gage. J. J. Pippen. No. 1,003,292; Sept. 12; Sp. p. 2431; Gaz. vol. 170; p. 418.
Saw-gin. J. G. Dickson. No. 1,010,732; Dec. 5; Sp. p. 736; Gaz. vol. 173; p. 116.
Saw-gin-cleaning mechanism. J. G. Dickson. No. 1,010,731; Dec. 5; Sp. p. 734; Gaz. vol. 173; p. 116.
Saw-guide. C. Kessler. No. 993,838; May 30; Sp. p. 6474; Gaz. vol. 166; p. 1166.
Saw-guide. W. H. Trout. No. 995,991; June 20; Sp. p. 4123; Gaz. vol. 167; p. 718.
Saw-guide. H Schuring. No. 996,149; June 27; Sp. p. 4460; Gaz. vol. 167; p. 807.
Saw-guide. G. A. Daly. No. 997,373; July 11; Sp. p. 1631; Gaz. vol. 168; p. 296.
Saw guide, Band-. R. Whitaker. No. 981,340; Jan. 10; Sp. p. 2673; Gaz. vol. 162; p. 434.
Saw guide, Band-. W. J. Hull. No. 999,500; Aug. 1; Sp. p. 603; Gaz. vol. 169; p. 104.
Saw guide, Band-. H. Rost. No. 1,004,204; Sept. 26; Sp. p. 4481; Gaz. vol. 170; p. 793.
Saw-handle. C. M. Minton. No. 981,100; Jan. 10; Sp. p. 2110; Gaz. vol. 162; p. 349.
Saw-handle. A. R. Hultin. No. 982,003; Jan. 17; Sp. p. 4103; Gaz. vol. 162; p. 684.
Saw-handle. E. B. Olson. No. 982,986; Jan. 31; Sp. p. 6164; Gaz. vol. 162; p. 1077.
Saw-handle. J. F. Mixon. No. 986,487; Mar. 14; Sp. p. 1559; Gaz. vol. 164; p. 278.
Saw-handle. J. Rankin. No. 991,746; May 9; Sp. p. 1973; Gaz. vol. 166; p. 354.
Saw-handle. G. McKinney. No. 1,008,658; Nov. 14; Sp. p. 2341; Gaz. vol. 172; p. 395.
Saw handle, Crosscut-. L. Shallcross. No. 984,975; Feb. 21; Sp. p. 3688; Gaz. vol. 163; p. 651.
Saw handle, Crosscut-. J. R. Eldridge. No. 1,009,900; Nov. 28; Sp. p. 4993; Gaz. vol. 172; p. 902.
Saw-jointer. T. P. Woolf. No. 1,009,613; Nov. 21; Sp. p. 4410; Gaz. vol. 172; p. 760.
Saw-jointing tool. D. G. Andrews. No. 982,458; Jan. 24; Sp. p. 5059; Gaz. vol. 162; p. 873.
Saw-machine attachment, Circular-. J. W. Oliver. No. 995,082; June 13; Sp. p. 2176; Gaz. vol. 167; p. 377.
Saw machine, Scroll-. C. H. Heidel. No. 994,394; June 6; Sp. p. 617; Gaz. vol. 167; p. 105.
Saw, Metal-. G. H. Burke. No. 993,150; May 23; Sp. p. 4978; Gaz. vol. 166; p. 900.
Saw mill, Band-. A. D. Catlin. No. 992,160; May 16; Sp. p. 2825; Gaz. vol. 166; p. 526.
Saw mill, Gang-. J. L. Graham. No. 1,000,510; Aug. 15; Sp. p. 2764; Gaz. vol. 169; p. 512.
Saw mill, Gang-. J. L. Graham. No. 1,002,675; Sept. 5; Sp. p. 1088; Gaz. vol. 170; p. 164.
Saw mills, Grinding attachment for band-. J. D. Ge Bott. No. 1,006,377; Oct. 17; Sp. p. 3992; Gaz. vol. 171; p. 695.
Saw mortiser attachment, Chain-. V. Varin. No. 997,345; July 11; Sp. p. 1584; Gaz. vol. 168; p. 287.
Saw-operating mechanism, Gang-. T. S. Wilkin. No. 996,184; June 27; Sp. p. 4589; Gaz. vol. 167; p. 819.
Saw-oscillating means, Gang-. T. S. Wilkin. No. 996,185; June 27; Sp. p. 4591; Gaz. vol. 167; p. 819.
Saw, Pneumatic. C. J. Olson. No. 982,851; Jan. 31; Sp. p. 5863; Gaz. vol. 162; p. 1032.
Saw, Portable power cut-off. W. C. Lipscomb. No. 1,002,164; Aug. 29; Sp. p. 6302; Gaz. vol. 169; p. 1139.
Saw, Scroll-. F. J. Sievert. No. 984,398; Feb. 14; Sp. p. 2470; Gaz. vol. 163; p. 418.
Saw-set. J. C. Milholland. No. 980,877; Jan. 3; Sp. p. 1498; Gaz. vol. 162; p. 240.
Saw-set. L. N. Meadows. No. 985,270; Feb. 28; Sp. p. 4371; Gaz. vol. 163; p. 788.
Saw-set. E. M. Conklin. No. 986,693; Mar. 14; Sp. p. 1985; Gaz. vol. 164; p. 349.
Saw-set. M. A. Beard. No. 994,970; June 13; Sp. p. 1931; Gaz. vol. 167; p. 339.
Saw-set. J. R. Flaherty. No. 995,590; June 20; Sp. p. 3276; Gaz. vol. 167; p. 578.
Saw-set. T. C. Adams. No. 999,356; Aug. 1; Sp. p. 327; Gaz. vol. 169; p. 57.
Saw-set. J. A. Hodgson. No. 1,001,642; Aug. 29; Sp. p. 5204; Gaz. vol. 169; p. 965.
Saw-set. H. B. Porter. No. 1,002,750; Sept. 5; Sp. p. 1272; Gaz. vol. 170; p. 191.
Saw-set. C. Holtin. No. 1,007,697; Nov. 7; Sp. p. 97; Gaz. vol. 172; p. 15.
Saw-set. J. Love. No. 1,010,653; Dec. 5; Sp. p. 558; Gaz. vol. 173; p. 89.
Saw set and gage, Combined. B. Roberts. No. 985,706; Feb. 28; Sp. p. 5350; Gaz. vol. 163; p. 937.
Saw-set and raker-gage. V. S. Goodsell. No. 1,009,737; Nov. 28; Sp. p. 4662; Gaz. vol. 172; p. 847.
Saw set, Circular-. J. Neuroth. No. 1,001,880; Aug. 29; Sp. p. 5741; Gaz. vol. 169; p. 1048.
Saw set, Crosscut-. O. C. Burnham. No. 1,005,688; Oct. 10; Sp. p. 2464; Gaz. vol. 171; p. 423.
Saw set-works, Power-operated. J. McLaren. No. 997,403; July 11; Sp. p. 1680; Gaz. vol. 168; p. 305.
Saw-setting device. A. D. Goodell. No. 984,478; Feb. 14; Sp. p. 2629; Gaz. vol. 163; p. 444.
Saw-swage. T. F. Carroll. No. 983,427; Feb. 7; Sp. p. 357; Gaz. vol. 163; p. 60.
Saw-swage. L. Greer. No. 996,757; July 4; Sp. p. 320; Gaz. vol. 168; p. 54.
Saw-swage. F. H. Tappendorff. No. 1,008,621; Nov. 14; Sp. p. 2250; Gaz. vol. 172; p. 383.
Saw swage and shaper. L. G. McKam. No. 992,135; May 9; Sp. p. 2749; Gaz. vol. 166; p. 486.
Saw-table. E. J. Osburn, Jr. No. 984,237; Feb. 14; Sp. p. 2145; Gaz. vol. 163; p. 364.
Saw-table frame. G. L. Knights. No. 981,431; Jan. 10; Sp. p. 2884; Gaz. vol. 162; p. 465.
Saw-table gage. L. T. Harrower. No. 990,045; Apr. 18; Sp. p. 3760; Gaz. vol. 165; p. 650.
Saw-tool. J. S. Cotter. No. 988,290; Mar. 28; Sp. p. 5377; Gaz. vol. 164; p. 950.
Saw-tool. D. R. Williams. No. 1,004,326; Sept. 26; Sp. p. 4711; Gaz. vol. 170; p. 833.
Saw-tooth cutting and setting machine. E. J. Moore. No. 1,004,456; Sept. 26; Sp. p. 4985; Gaz. vol. 170; p. 877.
Saw-tooth shaper. W. G. Wilms. No. 987,935; Mar. 28; Sp. p. 4646; Gaz. vol. 164; p. 833.
Saw-tooth shaper. T. F. Carroll. No. 997,040; July 4; Sp. p. 956; Gaz. vol. 168; p. 152.
Saw-vise. J. B. Atkinson. No. 981,153; Jan. 10; Sp. p. 2230; Gaz. vol. 162; p. 368.
Saws, Feed apparatus for jointing. O. O. Felts. No. 993,045; May 23; Sp. p. 4756; Gaz. vol. 166; p. 865.
Saws, Hood for friction-. H. A. Fergusson. No. 992,490; May 16; Sp. p. 3573; Gaz. vol. 166; p. 641.
Saws, Lumber-guide for rip-. C. Johnson. No. 983,723; Feb. 7; Sp. p. 1001; Gaz. vol. 163; p. 159.
Saws, Means for correcting irregularities in band-. J. M. Culbertson. No. 1,001,580; Aug. 22; Sp. p. 5068; Gaz. vol. 169; p. 913.
Saws or tools, Insertible tooth for metal-cutting. S. Newbold. No. 994,331; June 6; Sp. p. 469; Gaz. vol. 167; p. 81.
Saws, Safety device for. O. Troupenat. No. 997,720; July 11; Sp. p. 2352; Gaz. vol. 168; p. 413.
Sawing and splitting machine, Wood. A. P. Howard. No. 1,001,272; Aug. 22; Sp. p. 4454; Gaz. vol. 169; p. 809.
Sawing apparatus. S. Dillon and E. E. Slick. No. 999,212; Aug. 1; Sp. p. 41; Gaz. vol. 169; p. 9.
Sawing apparatus, Adjustable. C. S. Lemon. No. 993,606; May 30; Sp. p. 5958; Gaz. vol. 166; p. 1085.
Sawing-guide. V. A. McWold. No. 997,463; July 11; Sp. p. 1789; Gaz. vol. 168; p. 324.
Sawing logs, Automatic centering device for. C. L. Wood. No. 995,833; June 20; Sp. p. 3805; Gaz. vol. 167; p. 663.
Sawing-machine. J. C. F. Bolton. No. 994,568; June 6; Sp. p. 974; Gaz. vol. 167; p. 161.
Sawing-machine. W. P. Keltner. No. 996,722; July 4; Sp. p. 250; Gaz. vol. 168; p. 43.
Sawing-machine. C. F. Gray. No. 1,000,797; Aug. 15; Sp. p. 3417; Gaz. vol. 169; p. 614.
Sawing-machine and the like. A. J. Tenow and J. E. Boström. No. 1,007,157; Oct. 31; Sp. p. 5751; Gaz. vol. 171; p. 1053.
Sawing machine, Timber-. A. J. Tenow. No. 1,010,091; Nov. 28; Sp. p. 5399; Gaz. vol. 172; p. 967.
Sawing machine, Wood-. E. O. Swafford. No. 982,312; Jan. 24; Sp. p. 4738; Gaz. vol. 162; p. 819.
Sawing machine, Wood-. J. B. Scheck. No. 987,747; Mar. 28; Sp. p. 4201; Gaz. vol. 164; p. 767.
Sawing machine, Wood-. E. Graham. No. 994,640; June 6; Sp. p. 1139; Gaz. vol. 167; p. 186.
Sawing, Means for placing timber in position for. A. J. Tenow and C. E. Andersson. No. 1,007,158; Oct. 31; Sp. p. 5753; Gaz. vol. 171; p. 1053.
Sawdust absorbent, Rendering. V. Raisin. No. 998,858; July 25; Sp. p. 4944; Gaz. vol. 168; p. 889.
Sawdust-box. F. P. Boland. No. 981,911; Jan. 17; Sp. p. 3882; Gaz. vol. 162; p. 652.
Sawmill. W. L. Blay. No. 993,142; May 23; Sp. p. 4963; Gaz. vol. 166; p. 898.
Sawmill-carriage wheel-guard and track-cleaner. T. Carberry and C. A. Hanson. No. 986,136; Mar. 7; Sp. p. 793; Gaz. vol. 164; p. 128.
Sawmill-carriages, Offsetting device for. J. C. Rennie. No. 995,183; June 13; Sp. p. 2363; Gaz. vol. 167; p. 410.
Sawmill-carriages, Power set-works for. E. A. Wright. No. 1,004,837; Oct. 3; Sp. p. 631; Gaz. vol. 171; p. 102.

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Sawmill-carriages, Rotating steam-feed for. F. B. Jones. No. 1,011,803; Dec. 12; Sp. p. 3157; Gaz. vol. 173; p. 527.
Sawmill-carriages, Steam-operated dog for. W. S. Miller. No. 999,834; Aug. 8; Sp. p. 1260; Gaz. vol. 169; p. 246.
Sawmill-carriages, Track-scraper for. E. P. Hueber. No. 982,679; Jan. 24; Sp. p. 5483; Gaz. vol. 162; p. 946.
Sawmill-dog. S. S. Thebeau. No. 985,752; Feb. 28; Sp. p. 5433; Gaz. vol. 163; p. 953.
Sawmill-dog. W. Thorp. No. 1,010,820; Dec. 5; Sp. p. 924; Gaz. vol. 173; p. 145.
Sawmill, Double-acting. W. T. Bridges. No. 1,002,129; Aug. 29; Sp. p. 6238; Gaz. vol. 169; p. 1128.
Sawmill-hogs, Attachment for. F. E. Martin. No. 997,684; July 11; Sp. p. 2265; Gaz. vol. 168; p. 401.
Sawmill, Log-. A. S. Froslid. No. 981,255; Jan. 10; Sp. p. 2490; Gaz. vol. 162; p. 405.
Sawmill set-works. C. W. Willett. No. 982,915; Jan. 31; Sp. p. 6017; Gaz. vol. 162; p. 1054.
Sawmill set-works. W. H. Trout. No. 995,205; June 13; Sp. p. 2395; Gaz. vol. 167; p. 416.
Sawmill set-works. M. A. Flautt. No. 1,012,539; Dec. 19; Sp. p. 4737; Gaz. vol. 173; p. 814.
Sawmills, Dog attachment for. C. L. Robbins. No. 981,945; Jan. 17; Sp. p. 3982; Gaz. vol. 162; p. 664.
Saxophone. P. Evette. No. 1,005,009; Oct. 3; Sp. p. 966; Gaz. vol. 171; p. 161.
Scaffold. S. Rashkovsky. No. 987,399; Mar. 21; Sp. p. 3471; Gaz. vol. 164; p. 620.
Scaffold. C. W. Prose. No. 994,424; June 6; Sp. p. 674; Gaz. vol. 167; p. 115.
Scaffold. E. Whitney. No. 998,270; July 18; Sp. p. 3637; Gaz. vol. 168; p. 650.
Scaffold. F. Magnuson. No. 1,000,738; Aug. 15; Sp. p. 3284; Gaz. vol. 169; p. 593.
Scaffold. E. H. Phelps. No. 1,000,842; Aug. 15; Sp. p. 3504; Gaz. vol. 169; p. 630.
Scaffold, Adjustable window-. S. W. Wright. No. 989,466; Apr. 11; Sp. p. 2481; Gaz. vol. 165; p. 420.
Scaffold-bracket, Ladder. M. Zinsmayer. No. 984,059; Feb. 14; Sp. p. 1764; Gaz. vol. 163; p. 303.
Scaffold, Folding. E. Zahn. No. 1,006,337; Oct. 17; Sp. p. 3903; Gaz. vol. 171; p. 682.
Scaffold, Hanging. C. M. Haynes. No. 981,261; Jan. 10; Sp. p. 2502; Gaz. vol. 162; p. 407.
Scaffold, Hanging. C. M. Haynes. No. 1,004,876; Oct. 3; Sp. p. 712; Gaz. vol. 171; p. 116.
Scaffold-jack. L. Gaulton. No. 996,982; July 4; Sp. p. 821; Gaz. vol. 168; p. 132.
Scaffold, Ladder-. F. C. Valentine. No. 991,565; May 9; Sp. p. 1589; Gaz. vol. 166; p. 293.
Scaffold, Painter's. J. Berg. No. 984,063; Feb. 14; Sp. p. 1771; Gaz. vol. 163; p. 305.
Scaffold, Portable. A. H. McGhan. No. 982,083; Jan. 17; Sp. p. 4267; Gaz. vol. 162; p. 710.
Scaffold, Portable. A. H. McGhan. (Reissue.) No. 13,281; Aug. 15; Sp. p. 3785; Gaz. vol. 169; p. 675.
Scaffold, Portable extension-. J. Thaubald. No. 991,182; May 2; Sp. p. 756; Gaz. vol. 166; p. 128.
Scaffold, Roof-. F. E. Parris. No. 988,808; Apr. 4; Sp. p. 1106; Gaz. vol. 165; p. 176.
Scaffold, Sectional. V. Abrams. No. 1,003,407; Sept. 19; Sp. p. 2653; Gaz. vol. 170; p. 489.
Scaffold-swinging device. G. Firus. No. 982,663; Jan. 24; Sp. p. 5454; Gaz. vol. 162; p. 941.
Scaffold, Window-. L. L. Raymer. No. 1,004,689; Oct. 3; Sp. p. 299; Gaz. vol. 171; p. 51.
Scaffolding and like structure, Collapsible. G. Sistermann. No. 999,126; July 25; Sp. p. 5520; Gaz. vol. 168; p. 981.
Scaffolding-clamp. L. Scotellaro. No. 986,409; Mar. 7; Sp. p. 1373; Gaz. vol. 164; p. 221.
Scaffolding, Knockdown. G. B. Kefover. No. 1,011,627; Dec. 12; Sp. p. 2806; Gaz. vol. 173; p. 467.
Scaffolding-poles, Connecting. D. P. Jones. No. 998,776; July 25; Sp. p. 4763; Gaz. vol. 168; p. 860.
Scale. E. C. Pool. No. 982,865; Jan. 31; Sp. p. 5911; Gaz. vol. 162; p. 1037.
Scale. F. P. Dunn. No. 984,891; Feb. 21; Sp. p. 3528; Gaz. vol. 163; p. 624.
Scale. J. O. Garmon. No. 988,185; Mar. 28; Sp. p. 5162; Gaz. vol. 164; p. 915.
Scale. J. S. Allen. No. 993,216; May 23; Sp. p. 5110; Gaz. vol. 166; p. 921.
Scale. L. Jaenichen. No. 994,926; June 13; Sp. p. 1843; Gaz. vol. 167; p. 324.
Scale. L. Jaenichen and B. W. King. No. 998,008; July 18; Sp. p. 3053; Gaz. vol. 168; p. 556.
Scale. W. R. Allen. No. 999,730; Aug. 8; Sp. p. 1070; Gaz. vol. 169; p. 213.
Scale. F. P. Dunn. No. 1,001,002; Aug. 22; Sp. p. 3907; Gaz. vol. 169; p. 719.
Scale. B. W. King. No. 1,001,202; Aug. 22; Sp. p. 4318; Gaz. vol. 169; p. 787.
Scale. N. M. Hansen. No. 1,005,202; Oct. 10; Sp. p. 1350; Gaz. vol. 171; p. 250.
Scale. A. De Vilbiss, Jr. No. 1,005,942; Oct. 17; Sp. p. 3024; Gaz. vol. 171; p. 544.
Scale. W. F. Stimpson. No. 1,006,414; Oct. 17; Sp. p. 4066; Gaz. vol. 171; p. 708.
Scale. B. M. Brooke. No. 1,009,826; Nov. 28; Sp. p. 4858; Gaz. vol. 172; p. 878.
Scale attachment for supporting wagon-beds. C. E. Burnett. No. 993,647; May 30; Sp. p. 6049; Gaz. vol. 166; p. 1099.
Scale attachment, Wagon-weighing-. W. D. McClelland. No. 987,587; Mar. 21; Sp. p. 3838; Gaz. vol. 164; p. 684.
Scale, Automatic. J. L. Jenkins. No. 994,319; June 6; Sp. p. 438; Gaz. vol. 167; p. 76.
Scale, Automatic weighing-. A. Gauvin. No. 999,365; Aug. 1; Sp. p. 343; Gaz. vol. 169; p. 60.
Scale, Automatic weighing-. E. D. Carter. No. 1,011,575; Dec. 12; Sp. p. 2668; Gaz. vol. 173; p. 448.
Scale, Automatic weighing and recording car-. G. Goetz. No. 1,001,635; Aug. 29; Sp. p. 5191; Gaz. vol. 169; p. 962.
Scale, Automatically-computing weighing-. A. H. Shock. No. 1,005,337; Oct. 10; Sp. p. 1673; Gaz. vol. 171; p. 299.
Scale, Balance-scoop. F. A. W. Kelley. No. 983,554; Feb. 7; Sp. p. 662; Gaz. vol. 163; p. 101.
Scale-beam balancing device. R. Mansfield. No. 1,012,262; Dec. 19; Sp. p. 4196; Gaz. vol. 173; p. 720.
Scale bearing, Weighing-. C. A. Vidinghoff. No. 1,012,303; Dec. 19; Sp. p. 4283; Gaz. vol. 173; p. 735.
Scale, Computing-. R. D. H. Anderson. No. 980,898; Jan. 10; Sp. p. 1580; Gaz. vol. 162; p. 277.
Scale, Computing-. J. W. Culmer. No. 999,722; Aug. 1; Sp. p. 1045; Gaz. vol. 169; p. 179.
Scale, Computing-. J. N. Perkins. No. 1,004,189; Sept. 26; Sp. p. 4453; Gaz. vol. 170; p. 788.
Scale, Computing-. C. M. Cameron. No. 1,004,363; Sept. 26; Sp. p. 4784; Gaz. vol. 170; p. 845.
Scale, Computing-. F. M. Engelhardt. No. 1,005,947; Oct. 17; Sp. p. 3032; Gaz. vol. 171; p. 546.
Scale, Computing-. C. F. Christopher. No. 1,006,062; Oct. 17; Sp. p. 3266; Gaz. vol. 171; p. 584.
Scale, Computing-. J. Hopkinson. No. 1,012,640; Dec. 26; Sp. p. 4976; Gaz. vol. 173; p. 894.
Scale. Double. F. P. Dunn. No. 1,012,339; Dec. 19; Sp. p. 4362; Gaz. vol. 173; p. 747.
Scale-drum construction. B. D. Emanuel. No. 1,012,343; Dec. 19; Sp. p. 4370; Gaz. vol. 173; p. 748.
Scale, Farm-wagon. H. L. Graves. No. 995,131; June 13; Sp. p. 2255; Gaz. vol. 167; p. 393.
Scale for indicating standard-last measurements. J. C. Diefenbach. No. 998,603; July 25; Sp. p. 4362; Gaz. vol. 168; p. 799.
Scale, Grain-weighing. A. and A. T. McLeod. No. 994,265; June 6; Sp. p. 335; Gaz. vol. 167; p. 58.
Scale, Gravity box-. C. D. Bishop. No. 1,003,421; Sept. 19; Sp. p. 2689; Gaz. vol. 170; p. 494.
Scale-light. W. J. Freeman and S. G. Crane. No. 988,702; Apr. 4; Sp. p. 892; Gaz. vol. 165; p. 142.
Scale, Logarithmic. J. M. Michaelson. No. 1,001,061; Aug. 22; Sp. p. 4028; Gaz. vol. 169; p. 741.
Scale, Pitless. S. J. Austin. No. 992,747; May 23; Sp. p. 4103; Gaz. vol. 166; p. 759.
Scale, Platform-. E. C. Sooy. No. 987,184; Mar. 21; Sp. p. 3007; Gaz. vol. 164; p. 546.
Scale, Platform-. J. Himmes. No. 987,627; Mar. 21; Sp. p. 3913; Gaz. vol. 164; p. 697.
Scale-platform. G. Schoettinger. No. 1,012,105; Dec. 19; Sp. p. 3854; Gaz. vol. 173; p. 667.
Scale, Price-indicating. A. J. Bayley and H. A. Zastrow. No. 1,003,418; Sept. 19; Sp. p. 2681; Gaz. vol. 170; p. 493.
Scale rail-joint, Weighing-. R. S. Bohannan and N. Dugger. No. 988,542; Apr. 4; Sp. p. 537; Gaz. vol. 165; p. 86.
Scale, Railway track-. G. T. Turner. No. 1,012,935; Dec. 26; Sp. p. 5667; Gaz. vol. 173; p. 995.
Scale, Recording-. W. T. Bovie. No. 988,074; Mar. 28; Sp. p. 4965; Gaz. vol. 164; p. 880.
Scale recording and registering attachment, Weighing-. M. Maurer. No. 986,640; Mar. 14; Sp. p. 1877; Gaz. vol. 164; p. 332.
Scale, Recording weighing-. R. Y. Thomas. No. 1,011,273; Dec. 12; Sp. p. 1984; Gaz. vol. 173; p. 340.
Scale register, Weighing-. G. J. Dye. No. 984,362; Feb. 14; Sp. p. 2399; Gaz. vol. 163; p. 406.
Scale, Spring-. C. H. Colson. No. 984,264; Feb. 14; Sp. p. 2215; Gaz. vol. 163; p. 374.
Scale-supporting frame. J. F. Richardson. No. 993,407; May 30; Sp. p. 5523; Gaz. vol. 166; p. 1016.
Scale, Track-. J. Manes. No. 998,540; July 18; Sp. p. 4201; Gaz. vol. 168; p. 744.
Scale, Truck-. E. L. Gage. No. 1,006,191; Oct. 17; Sp. p. 3569; Gaz. vol. 171; p. 632.
Scale, Valve-tension. C. C. Shigley. No. 985,213; Feb. 28; Sp. p. 4234; Gaz. vol. 163; p. 768.
Scale, Weighing-. G. M. Mayer. No. 983,385; Feb. 7; Sp. p. 274; Gaz. vol. 163; p. 46.
Scale, Weighing-. W. N. Gilbert. No. 983,990; Feb. 14; Sp. p. 1616; Gaz. vol. 163; p. 280.
Scale, Weighing-. W. S. Smith. No. 992,919; May 23; Sp. p. 4481; Gaz. vol. 166; p. 821.
Scale, Weighing-. E. E. Weck. No. 993,005; May 23; Sp. p. 4667; Gaz. vol. 166; p. 851.
Scale, Weighing-. C. M. Sturgis. No. 993,906; May 30; Sp. p. 6586; Gaz. vol. 166; p. 1187.
Scale, Weighing-. J. W. Spurlock. No. 995,922; June 20; Sp. p. 3994; Gaz. vol. 167; p. 694.

Scale, Weighing-. V. E. Edwards. No. 997,444; July 11; Sp. p. 1758; Gaz. vol. 168; p. 319.
Scale, Weighing-. C. P. Zimmerman. No. 998,066; July 18; Sp. p. 3179; Gaz. vol. 168; p. 577.
Scale, Weighing-. O. C. Reeves. No. 999,339; Aug. 1; Sp. p. 279; Gaz. vol. 169; p. 51.
Scale, Weighing-. J. A. McGuire. No. 1,001,666; Aug. 29; Sp. p. 5264; Gaz. vol. 169; p. 974.
Scale, Weighing-. R. C. Lewis. No. 1,002,923; Sept. 12; Sp. p. 1677; Gaz. vol. 170; p. 289.
Scale, Weighing-. W. F. Drew. No. 1,003,439; Sept. 19; Sp. p. 2727; Gaz. vol. 170; p. 500.
Scale, Weighing-. A. De Vilbiss, Jr. No. 1,005,943; Oct. 17; Sp. p. 3026; Gaz. vol. 171; p. 545.
Scale, Weighing-. W. C. Carr. No. 1,006,464; Oct. 24; Sp. p. 4195; Gaz. vol. 171; p. 755.
Scale, Weighing-. A. De Vilbiss, Jr. No. 1,007,932; Nov. 7; Sp. p. 646; Gaz. vol. 172; p. 100.
Scale, Weighing-. A. De Vilbiss, Jr. No. 1,008,314; Nov. 14; Sp. p. 1493; Gaz. vol. 172; p. 274.
Scale, Weighing-. W. A. Sholty. No. 1,008,374; Nov. 14; Sp. p. 1650; Gaz. vol. 172; p. 294.
Scale, Weighing-. T. C. Prouty. No. 1,009,093; Nov. 21; Sp. p. 3268; Gaz. vol. 172; p. 578.
Scale, Weighing-. T. C. Prouty. No. 1,009,094; Nov. 21; Sp. p. 3270; Gaz. vol. 172; p. 578.
Scale, Weighing and computing. L. C. Wetzel. No. 998,220; July 18; Sp. p. 3504; Gaz. vol. 168; p. 631.
Scale weighing devices, Apparatus for handling. A. F. Conant. No. 1,012,522; Dec. 19; Sp. p. 4699; Gaz. vol. 173; p 807.
Scale with automatically-issued record-cards. P. Meyer. No. 991,343; May 2; Sp. p. 1107; Gaz. vol. 166; p. 185.
Scales, Attachment for weighing-. P. Genzhorn and W. C. Mueller. No. 1,011,609; Dec. 12; Sp. p. 2753; Gaz. vol. 173; p. 461.
Scales, Compensating device for spring-. G. Schoettinger. No. 994,036; May 30; Sp. p. 6857; Gaz. vol. 166; p. 1231.
Scales, Height-measuring attachment for. C. B. Carr. No. 1,001,814; Aug. 29; Sp. p. 5586; Gaz. vol. 169; p. 1024.
Scales, Paper-holder for. L. E. Zimmerman. No. 1,006,892; Oct. 24; Sp. p. 5166; Gaz. vol. 171; p. 907.
Scales, Portable and foldable support for weighing-. O. Y. Roten. No. 999,594; Aug. 1; Sp. p. 788; Gaz. vol. 169; p. 137.
Scaling device. M. Copet-Hardenne. No. 983,875; Feb. 14; Sp. p. 1353; Gaz. vol. 163; p. 243.
Scarf or tie, Neck. J. F. Maglone. No. 1,007,465; Oct. 31; Sp. p. 6396; Gaz. vol. 171; p. 1161.
Scarf-pin. R. C. Robinson. No. 1,005,073; Oct. 3; Sp. p. 1081; Gaz. vol. 171; p. 182.
Scarf, shawl, and sweater, Combined. J. Adler. No. 1,002,623; Sept. 5; Sp. p. 995; Gaz. vol. 170; p. 148.
Scissors, Machine-. A. Roelants and H. Henebiens. No. 1,012,918; Dec. 26; Sp. p. 5609; Gaz. vol. 173; p. 989.
Scissors or shears. J. N. Randle and E. B. Goodchild. No. 996,674; July 4; Sp. p. 159; Gaz. vol. 168; p. 28.
Scissors or shears. R. L. Allison. No. 1,007,836; Nov. 7; Sp. p. 440; Gaz. vol. 172; p. 66.
Scoop. J. A. Miller and H. Bingaman. No. 984,774; Feb. 21; Sp. p. 3320; Gaz. vol. 163; p. 585.
Scoop. A. N. Cross. No. 990,232; Apr. 25; Sp. p. 4161; Gaz. vol. 165; p. 744.
Scoop. C. E. Skyum. No. 993,560; May 30; Sp. p. 5863; Gaz. vol. 166; p. 1069.
Scoop for baling narrow shafts. G. Meyer. No. 983,077; Jan. 31; Sp. p. 6377; Gaz. vol. 162; p. 1108.
Scoop for emptying pans. R. J. Ross. No. 1,006,407; Oct. 17; Sp. p. 4054; Gaz. vol. 171; p. 706.
Scoop, Grain-. P. L. Meadows. No. 992,972; May 23; Sp. p. 4606; Gaz. vol. 166; p. 840.
Scoop, Grain-. C. H. Lindner. No. 996,596; June 27; Sp. p. 5474; Gaz. vol. 167; p. 958.
Scoop, Self-dumping hand-. F. A. W. Kelley. No. 983,555; Feb. 7; Sp. p. 663; Gaz. vol. 163; p. 101.
Scoop, Wheel-mounted. D. W. Patterson. No. 999,857; Aug. 8; Sp. p. 1321; Gaz. vol. 169; p. 255.
Score-board, Electrically-operated. S. A. Redding. No. 1,000,039; Aug. 8; Sp. p. 1694; Gaz. vol. 169; p. 318.
Score-card, Base-ball. W. A. Dealey. No. 1,011,122; Dec. 5; Sp. p. 1585; Gaz. vol. 173; p. 251.
Score-indicator. R. B. Lewis. No. 1,000,026; Aug. 8; Sp. p. 1672; Gaz. vol. 169; p. 314.
Score-keeper. L. A. Brown. No. 985,655; Feb. 28; Sp. p. 5199; Gaz. vol. 163; p. 919.
Scouring-machine. J. Hemmer. No. 987,721; Mar. 28; Sp. p. 4151; Gaz. vol. 164; p. 759.
Scow, Sand-. E. D. Callen. No. 988,289; Mar. 28; Sp. p. 5375; Gaz. vol. 164; p. 950.
Scow, Tilting dumping-. G. V. Mitchell. No. 995,624; June 20; Sp. p. 3349; Gaz. vol. 167; p. 590.
Scraper. F. Elliott. No. 987,798; Mar. 28; Sp. p. 4309; Gaz. vol. 164; p. 785.
Scraper. J. E. Smith. No. 988,601; Apr. 4; Sp. p. 671; Gaz. vol. 165; p. 108.
Scraper. L. M. Oden. No. 993,864; May 30; Sp. p. 6516; Gaz. vol. 166; p. 1174.
Scraper and drag, Combined. H. S. Wood. No. 984,634; Feb. 21; Sp. p. 3014; Gaz. vol. 163; p. 534.
Scraper and fender attachment, Combined. D. B. Buttrill. No. 989,833; Apr. 18; Sp. p. 3312; Gaz. vol. 165; p. 578.
Scraper and grader. W. H. Violett. No. 982,319; Jan. 24; Sp. p. 4748; Gaz. vol. 162; p. 821.
Scraper and grader, Road. G. K. Smith, R. Russell, J. Anderson, Jr., and H. Grimes. No. 982,309; Jan. 24; Sp. p. 4733; Gaz. vol. 162; p. 818.
Scraper, Butcher's-block. C. H. Carlson. No. 1,011,916; Dec. 19; Sp. p. 3419; Gaz. vol. 173; p. 599.
Scraper, Disk-. A. R. Markley. No. 990,576; Apr. 25; Sp. p. 4962; Gaz. vol. 165; p. 866.
Scraper, Floor-. J. D. McCurdy. No. 999,051; July 25; Sp. p. 5381; Gaz. vol. 168; p. 959.
Scraper for cleaning lake and river shores. C. W. Stubbs. No. 991,665; May 9; Sp. p. 1816; Gaz. vol. 166; p. 330.
Scraper for road-engine wheels. G. A. Anderson. No. 983,196; Jan. 31; Sp. p. 6589; Gaz. vol. 162; p. 1146.
Scraper, Gravel-. H. Greenlee. No. 1,000,258; Aug. 8; Sp. p. 2204; Gaz. vol. 169; p. 392.
Scraper, Knife-blade. C. G. and G. W. Dooley. No. 1,002,045; Aug. 29; Sp. p. 6095; Gaz. vol. 169; p. 1101.
Scraper or beater arm for animal scraping or dehairing machines. A. Hannaford. No. 1,001,640; Aug. 29; Sp. p. 5199; Gaz. vol. 169; p. 964.
Scraper or grader, Surface. L. M. Linder. No. 981,437; Jan. 10; Sp. p. 2893; Gaz. vol. 162; p. 467.
Scraper, Pipe-. R. B. Lawrence, Jr. No. 981,578; Jan. 10; Sp. p. 3154; Gaz. vol. 162; p. 514.
Scraper, Road-. J. Williamson. No. 993,487; May 30; Sp. p. 5700; Gaz. vol. 166; p. 1043.
Scraper, Road-. H. C. Barnett. No. 998,228; July 18; Sp. p. 3533; Gaz. vol. 168; p. 635.
Scraper, Road-. G. J. Bender. No. 998,740; July 25; Sp. p. 4688; Gaz. vol. 168; p. 848.
Scraper, Rotary. F. L. Smith and T. B. Williams. No. 1,012,926; Dec. 26; Sp. p. 5636; Gaz. vol. 173; p. 992.
Scraper, Wheel-. J. Kindleberger and A. J. Granville. No. 983,065; Jan. 31; Sp. p. 6355; Gaz. vol. 162; p. 1104.
Scraper, Wheeled. J. H. Gerrer. No. 980,510; Jan. 3; Sp. p. 731; Gaz. vol. 162; p. 117.
Scraping and grading machine. S. E. Kennedy. No. 1,009,843; Nov. 28; Sp. p. 4890; Gaz. vol. 172; p. 883.
Screed and nailing-strip, Combined. B. Fox and W. W. Wilson. No. 985,891; Mar. 7; Sp. p. 290; Gaz. vol. 164; p. 46.
Screen: *See* Air-screen; Automatic screen; Coke-screen; Ditch fish-screen; Fish-screen; Fishway drum-screen; Fly-screen; Folding screen; Foreground ray-screen; Gravel-screen; Gyrating screen; House-screen; Light-screen; Metal screen; Ore-screen; Photographic-light screen; Projection-screen; Roller-screen; Separable and adjustable screen; Sink-screen; Stereopticon-screen; Vehicle weather-screen; Ventilating-screen; Wagon-loading screen; Window-screen.
Screen. J. Guentner. No. 982,270; Jan. 24; Sp. p. 4630; Gaz. vol. 162; p. 803.
Screen. M. S. Haugo. No. 988,095; Mar. 28; Sp. p. 5008; Gaz. vol. 164; p. 888.
Screen. J. R. McDonald. No. 990,578; Apr. 25; Sp. p. 4966; Gaz. vol. 165; p. 867.
Screen. C. Bauer. No. 1,002,360; Sept. 5; Sp. p. 429; Gaz. vol. 170; p. 59.
Screen. M. E. Priest. No. 1,003,370; Sept. 12; Sp. p. 2584; Gaz. vol. 170; p. 445.
Screen. W. Steger. No. 1,010,700; Dec. 5; Sp. p. 659; Gaz. vol. 173; p. 106.
Screen and window-frame therefor. E. L. Covell. No. 1,000,993; Aug. 22; Sp. p. 3869; Gaz. vol. 169; p. 716.
Screen-bar holder, Adjustable. G. T. Thayer. No. 985,558; Feb. 28; Sp. p. 5009; Gaz. vol. 163; p. 887.
Screen construction. C. Bauer. No. 983,342; Feb. 7; Sp. p. 178; Gaz. vol. 163; p. 31.
Screen construction, Window-. A. Kamin. No. 1,003,611; Sept. 19; Sp. p. 3111; Gaz. vol. 170; p. 561.
Screen-frame corner-piece. E. A. Cary. No. 987,046; Mar. 14; Sp. p. 2701; Gaz. vol. 164; p. 467.
Screen frame, Extension window-. G. E. Ferry. No. 1,001,009; Aug. 22; Sp. p. 3920; Gaz. vol. 169; p. 721.
Screen frames, Form for making window-. C. J. Whellams. No. 985,959; Mar. 7; Sp. p. 429; Gaz. vol. 164; p. 69.
Screen-hanger. J. Jenks. No. 1,012,085; Dec. 19; Sp. p. 3807; Gaz. vol. 173; p. 660.
Screen-making machine. C. B. Baumgartner. No. 990,825; Apr. 25; Sp. p. 5513; Gaz. vol. 165; p. 950.
Screen-rim. P. H. Baack. No. 988,296; Apr. 4; Sp. p. 3; Gaz. vol. 165; p. 3.
Screens, Combined corner-brace and hinge for. R. L. Kirk. No. 994,933; June 13; Sp. p. 1859; Gaz. vol. 167; p. 327.
Screening and picking apparatus. J. Dodds. No. 988,255; Mar. 28; Sp. p. 5301; Gaz. vol. 164; p. 938.
Screening device. F. O. Stromborg. No. 1,005,900; Oct. 17; Sp. p. 2911; Gaz. vol. 171; p. 528.
Screw. H. G. Reiniger. No. 984,969; Feb. 21; Sp. p. 3678; Gaz. vol. 163; p. 649.
Screw-anchor. S. H. Fleming. No. 1,005,630; Oct. 10; Sp. p. 2339; Gaz. vol. 171; p. 402.
Screw, Ball-bearing. W. S. Nichols and J. H. George. No. 992,897; May 23; Sp. p. 4432; Gaz. vol 166; p. 813.
Screw-blank-heading machine. P. L. Robertson. No. 1,003,657; Sept. 19; Sp. p. 3205; Gaz. vol. 170; p. 577.

Alphabetical list of inventions—Continued.

Screw-bolt. W. F. Kenney. No. 987,142; Mar. 21; Sp. p. 2889; Gaz. vol. 164; p. 531.
Screw-cutting die. C. J. Dorff. No. 1,000,156; Aug. 8; Sp. p. 1993; Gaz. vol. 169; p. 357.
Screw-cutting wrench. G. J. Gottsche. No. 985,523; Feb. 28; Sp. p. 4939; Gaz. vol. 163; p. 874.
Screw-driver. C. Bush. No. 980,595; Jan. 3; Sp. p. 904; Gaz. vol. 162; p. 146.
Screw-driver. W. B. Lane. No. 981,202; Jan. 10; Sp. p. 2336; Gaz. vol. 162; p. 385.
Screw-driver. H. Kinckiner and W. Scott. No. 984,932; Feb. 21; Sp. p. 3610; Gaz. vol. 163; p. 637.
Screw-driver. G. O. Leopold. No. 1,008,164; Nov. 7; Sp. p. 1096; Gaz. vol. 172; p. 179.
Screw-driver. A. Holmquist. No. 1,010,631; Dec. 5; Sp. p. 520; Gaz. vol. 173; p. 81.
Screw-driver having adjustable handle. W. S. Thomson. No. 1,000,051; Aug. 8; Sp. p. 1719; Gaz. vol. 169; p. 321.
Screw driver, Spiral eye-. C. M. Wilson. No. 985,087; Feb. 21; Sp. p. 3901; Gaz. vol. 163; p. 689.
Screw-drivers, Screw-holding attachment for. G. W. Bowers. No. 989,758; Apr. 18; Sp. p. 3135; Gaz. vol. 165; p. 551.
Screw-drivers, wrenches, &c., Ratchet mechanism for. W. B. Lane. (Reissue.) No. 13,205; Feb. 14; Sp. p. 2750; Gaz. vol. 163; p. 460.
Screw-driving. F. Hulsmann. No. 1,007,107; Oct. 31; Sp. p. 5628; Gaz. vol. 171; p. 1034.
Screw-driving machines, Feeding mechanism for automatic. W. P. Hunt and R. B. Weaver. No. 1,003,462; Sept. 19; Sp. p. 2779; Gaz. vol. 170; p. 509.
Screw for channelers, Double feed-. A. E. Champagne. No. 982,478; Jan. 24; Sp. p. 5096; Gaz. vol. 162; p. 879.
Screw-heads, Means for preventing frictional drag on rotating. G. E. Rogers. No. 981,315; Jan. 10; Sp. p. 2613; Gaz. vol. 162; p. 425.
Screw, Jack-. J. H. Wright. No. 1,002,795; Sept. 5; Sp. p. 1357; Gaz. vol. 170; p. 206.
Screw-joint, Safety. O. Rosset, A. Schwenk, and V. Kutter. No. 1,003,513; Sept. 19; Sp. p. 2879; Gaz. vol. 170; p. 526.
Screw limit-gage. J. Bariquand. No. 987,942; Mar. 28; Sp. p. 4667; Gaz. vol. 164; p. 836.
Screw-machine, Multispindle. E. C. Henn. No. 984,274; Feb. 14; Sp. p. 2233; Gaz. vol. 163; p. 377.
Screw-machines, Die and tap holder for threading devices for automatic. C. Truman. No. 985,231; Feb. 28; Sp. p. 4278; Gaz. vol. 163; p. 774.
Screw-machines, &c., Feeding device for. J. A. Bidwell. No. 992,935; May 23; Sp. p. 4525; Gaz. vol. 166; p. 828.
Screw-power brake for vehicles. J. H. Mark. No. 980,310; Jan. 3; Sp. p. 245; Gaz. vol. 162; p. 47.
Screw-press, Friction-driven. L. Schull. No. 995,034; June 13; Sp. p. 2060; Gaz. vol. 167; p. 360.
Screw-puncher. J. Kuhn. No. 1,008,276; Nov. 7; Sp. p. 1360; Gaz. vol. 172; p. 222.
Screw-secured article and producing same. A. v. Briesen. No. 992,331; May 16; Sp. p. 3234; Gaz. vol. 166; p. 586.
Screw-slitting apparatus. D. Millington and C. Munthe. No. 988,802; Apr. 4; Sp. p. 1097; Gaz. vol. 165; p. 175.
Screw-slotting machine. G. E. Witherell and E. R. Seward. No. 996,188; June 27; Sp. p. 4600; Gaz. vol. 167; p. 821.
Screw stake, Spiral-. J. E. Bradford. No. 1,011,729; Dec. 12; Sp. p. 3000; Gaz. vol. 173; p. 500.
Screw-stock and tap-wrench. E. J. Fugere. No. 997,665; July 11; Sp. p. 2226; Gaz. vol. 168; p. 393.
Screw, Temper-. J. J. Dixon and J. J. Goodard. No. 1,012,994; Dec. 26; Sp. p. 5796; Gaz. vol. 173; p. 1014.
Screw-thread-cutting device. L. F. Hart. No. 985,168; Feb. 28; Sp. p. 4128; Gaz. vol. 163; p. 751.
Screw-thread-cutting mechanism. L. F. Hart. No. 1,005,966; Oct. 17; Sp. p. 3075; Gaz. vol. 171; p. 552.
Screw-threads, Apparatus for cutting internal and external. C. Bilhartz. No. 995,997; June 20; Sp. p. 4136; Gaz. vol. 167; p. 720.
Screw-threads by grinding, Producing. G. A. Hattersley and L. Koenig. No. 985,412; Feb. 28; Sp. p. 4661; Gaz. vol. 163; p. 833.
Screw-threading die. J. W. McAteer and G. G. Overton. No. 1,005,448; Oct. 10; Sp. p. 1914; Gaz. vol. 171; p. 338.
Screw, Wood-. I. L. Messenger. No. 1,000,280; Aug. 8; Sp. p. 2257; Gaz. vol. 169; p. 400.
Screws, Anchor-socket for. I. D. Stine. No. 1,007,747; Nov. 7; Sp. p. 215; Gaz. vol. 172; p. 34.
Screws, Apparatus for making multiple-threaded wood-. H. Ruhnau. No. 981,478; Jan. 10; Sp. p. 2966; Gaz. vol. 162; p. 482.
Screwing-machines, Die-head of. T. and T. P. Chatwin and J. Virtue. No. 996,311; June 27; Sp. p. 4875; Gaz. vol. 167; p. 860.
Scriber. W. Potter. No. 1,000,940; Aug. 15; Sp. p. 3708; Gaz. vol. 169; p. 664.
Scribing device. J. Rossell. No. 988,950; Apr. 4; Sp. p. 1378; Gaz. vol. 165; p. 221.
Scrubber. A. D. Lee. No. 988,272; Mar. 28; Sp. p. 5336; Gaz. vol. 164; p. 944.
Scrubber and method of mingling gas and liquid and creating pressure in the gas. G. M. S. Tait. No. 992,081; May 9; Sp. p. 2626; Gaz. vol. 166; p. 467.
Scrubber and mop, Combined. G. O. Reshaw. No. 1,009,177; Nov. 21; Sp. p. 3426; Gaz. vol. 172; p. 606.
Scrubbing and brushing machine. C. F. Pease. No. 994,189; June 6; Sp. p. 184; Gaz. vol. 167; p. 32.
Scrubbing and wiping machine, Floor. M. Vidák. No. 1,010,097; Nov. 28; Sp. p. 5408; Gaz. vol. 172; p. 969.
Scrubbing device, Floor-. W. H. Strange. No. 981,032; Jan. 10; Sp. p. 1969; Gaz. vol. 162; p. 324.
Scrubbing-machine. B. B. Heffelfinger. No. 980,779; Jan. 3; Sp. p. 1283; Gaz. vol. 162; p. 207.
Scrubbing-machine. W. D. Reid. No. 990,775; Apr. 25; Sp. p. 5409; Gaz. vol. 165; p. 933.
Scrubbing machine, Electric floor-. W. H. Strange. No. 990,506; Apr. 25; Sp. p. 4830; Gaz. vol. 165; p. 842.
Sculptor's mold. H. L. Moreau. No. 996,784; July 4; Sp. p. 365; Gaz. vol. 168; p. 63.
Sculptors' molds, Making. H. L. Moreau. No. 996,783; July 4; Sp. p. 363; Gaz. vol. 168; p. 62.
Scythe. M. M. Bartlett. No. 992,476; May 16; Sp. p. 3551; Gaz. vol. 166; p. 636.
Scythe and snathe coupling. C. Jackson. No. 1,002,518; Sept. 5; Sp. p. 756; Gaz. vol. 170; p. 110.
Sea-wall or wharf construction. C. F. Francisco. No. 996,843; July 4; Sp. p. 503; Gaz. vol. 168; p. 82.
Seal. E. J. Brooks. No. 982,122; Jan. 17; Sp. p. 4336; Gaz. vol. 162; p. 724.
Seal. W. J. Baker. No. 984,736; Feb. 21; Sp. p. 3227; Gaz. vol. 163; p. 571.
Seal. G. S. Turner. No. 989,450; Apr. 11; Sp. p. 2446; Gaz. vol. 165; p. 414.
Seal. E. J. Brooks. No. 990,629; Apr. 25; Sp. p. 5068; Gaz. vol. 165; p. 883.
Seal. D. D. Davis. No. 994,103; May 30; Sp. p. 6994; Gaz. vol. 166; p. 1254.
Seal. J. L. Dinsmoor. No. 998,878; July 25; Sp. p. 4996; Gaz. vol. 168; p. 897.
Seal. J. L. Dinsmoor. No. 998,879; July 25; Sp. p. 5000; Gaz. vol. 168; p. 897.
Seal. C. Mount. No. 1,011,231; Dec. 12; Sp. p. 1871; Gaz. vol. 173; p. 323.
Seal. W. C. Martineau and E. J. Austin. No. 1,012,882; Dec. 26; Sp. p. 5538; Gaz. vol. 173; p. 977.
Seal, Air-. F. W. Krogh. No. 994,937; June 13; Sp. p. 1864; Gaz. vol. 167; p. 328.
Seal. All-flexible-rubber sink-. E. A. Stears. No. 1,007,013; Oct. 24; Sp. p. 5405; Gaz. vol. 171; p. 947.
Seal-assembling machine, Bottle-. L. Bartlett. No. 993,288; May 23; Sp. p. 5248; Gaz. vol. 166; p. 941.
Seal, Automatic locking-. M. G. Ewer. No. 1,011,766; Dec. 12; Sp. p. 3066; Gaz. vol. 173; p. 513.
Seal, Bag-. E. J. Brooks. No. 990,630; Apr. 25; Sp. p. 5070; Gaz. vol. 165; p. 883.
Seal, Bottle-. J. A. Rennie. No. 982,875; Jan. 31; Sp. p. 5937; Gaz. vol. 162; p. 1041.
Seal, Car-. E. J. Brooks. No. 982,121; Jan. 17; Sp. p. 4334; Gaz. vol. 162; p. 723.
Seal, Car-. W. K. Edgar. No. 985,019; Feb. 21; Sp. p. 3776; Gaz. vol. 163; p. 666.
Seal, Car-. P. M. Betz. No. 986,129; Mar. 7; Sp. p. 781; Gaz. vol. 164; p. 126.
Seal, Car-. H. J. Ward. No. 987,083; Mar. 14; Sp. p. 2761; Gaz. vol. 164; p. 478.
Seal, Car-. A. L. Stanford. No. 989,438; Apr. 11; Sp. p. 2426; Gaz. vol. 165; p. 410.
Seal, Car-. J. P. Gallager. No. 990,540; Apr. 25; Sp. p. 4898; Gaz. vol. 165; p. 854.
Seal, Car-. J. W. Prine. No. 1,003,793; Sept. 19; Sp. p. 3502; Gaz. vol. 170; p. 623.
Seal, Car-. C. H. Bull. No. 1,003,980; Sept. 26; Sp. p. 3932; Gaz. vol. 170; p. 714.
Seal, Car-. W. C. Martineau. No. 1,009,982; Nov. 28; Sp. p. 5156; Gaz. vol. 172; p. 928.
Seal, Car-. W. C. Martineau. No. 1,010,439; Dec. 5; Sp. p. 71; Gaz. vol. 173; p. 14.
Seal, Car-. W. C. Martineau. No. 1,010,440; Dec. 5; Sp. p. 72; Gaz. vol. 173; p. 15.
Seal, Car-. C. B. Lawler, W. A. Bryan, and J. Keller. No. 1,010,925; Dec. 5; Sp. p. 1170; Gaz. vol. 173; p. 184.
Seal, Envelop-. S. E. Reagles. No. 983,838; Feb. 7; Sp. p. 1253; Gaz. vol. 163; p. 200.
Seal for car-doors, shipping-receptacles, &c. J. J. A. Miller. No. 1,001,209; Aug. 22; Sp. p. 4334; Gaz. vol. 169; p. 789.
Seal for car-doors, shipping-receptacles, &c. J. J. A. Miller. No. 1,001,878; Aug. 29; Sp. p. 5736; Gaz. vol. 169; p. 1047.
Seal for cars and the like. J. K. Norvell. No. 1,012,417; Dec. 19; Sp. p. 4507; Gaz. vol. 173; p. 771.
Seal for faucets. C. C. Hucke. No. 983,140; Jan. 31; Sp. p. 6487; Gaz. vol. 162; p. 1128.
Seal for sectional leading-in wires. T. W. Frech, Jr. No. 1,006,198; Oct. 17; Sp. p. 3602; Gaz. vol. 171; p. 634.
Seal, Freight-car. C. D. Hall, Sr. No. 1,007,690; Nov. 7; Sp. p. 82; Gaz. vol. 172; p. 13.
Seal, Gas-meter. J. Graham. No. 986,818; Mar. 14; Sp. p. 2258; Gaz. vol. 164; p. 391.
Seal-lock. W. F. Walker. No. 1,004,831; Oct. 3; Sp. p. 609; Gaz. vol. 171; p. 100.
Seal-lock. G. H. Maas. No. 1,012,876; Dec. 26; Sp. p. 5529; Gaz. vol. 173; p. 975.

Seal or lock, Fluid. J. Blaeker. No. 999,693; Aug. 1; Sp. p. 974; Gaz. vol. 169; p. 170.
Seal, Package and letter. R. Archer. No. 982,562; Jan. 24; Sp. p. 5257; Gaz. vol. 162; p. 907.
Seal-press. R. A. Stewart. No. 989,078; Apr. 11; Sp. p. 1662; Gaz. vol. 165; p. 289.
Seal, Press-fastenable. E. J. Brooks. No. 995,321; June 13; Sp. p. 2619; Gaz. vol. 167; p. 454.
Seal-removing device, Bottle-. W. F. Stone. No. 996,433; June 27; Sp. p. 5162; Gaz. vol. 167; p. 904.
Seal, Snap-. E. J. Brooks. No. 988,169; Mar. 28; Sp. p. 5134; Gaz. vol. 164; p. 911.
Seal, Snap-. E. J. Brooks. No. 997,234; July 4; Sp. p. 1338; Gaz. vol. 168; p. 218.
Seal, Snap-. E. J. Brooks. No. 1,009,277; Nov. 21; Sp. p. 3698; Gaz. vol. 172; p. 644.
Seal, Vacuum-. E. C. Lay and O. P. M. Squires. No. 1,005,721; Oct. 10; Sp. p. 2526; Gaz. vol. 171; p. 433.
Sealed can, Wax-. O. J. Johnson. No. 982,070; Jan. 17; Sp. p. 4242; Gaz. vol. 162; p. 707.
Sealed joint. R. J. Schweitzer. No. 1,005,751; Oct. 10; Sp. p. 2582; Gaz. vol. 171; p. 444.
Sealing and capping apparatus, Bottle. S. C. Bond. No. 1,002,816; Sept. 5; Sp. p. 1396; Gaz. vol. 170; p. 213.
Sealing and capping bottles. S. C. Bond. No. 1,002,815; Sept. 5; Sp. p. 1394; Gaz. vol. 170; p. 213.
Sealing and locking end flaps of boxes together, Tool for. H. B. Walter. No. 993,923; May 30; Sp. p. 6615; Gaz. vol. 166; p. 1192.
Sealing and stamping apparatus, Envelop. E. J. Brasseur. No. 1,002,194; Aug. 29; Sp. p. 6364; Gaz. vol. 169; p. 1149.
Sealing and stamping machine. C. F. Davis. No. 1,011,887; Dec. 12; Sp. p. 3330; Gaz. vol. 173; p. 554.
Sealing and stamping machine, Envelop. I. Robbins. No. 987,916; Mar. 28; Sp. p. 4588; Gaz. vol. 164; p. 826.
Sealing apparatus, Can-. W. A. McKay. No. 998,542; July 18; Sp. p. 4204; Gaz. vol. 168; p. 745.
Sealing apparatus, Hermetic-. W. A. Lorenz. No. 986,187; Mar. 7; Sp. p. 900; Gaz. vol. 164; p. 146.
Sealing apparatus, Hermetic-. B. Arkell. No. 1,002,192; Aug. 29; Sp. p. 6361; Gaz. vol. 169; p. 1149.
Sealing bottles. O. N. Tevander and A. Manierre. (Reissue.) No. 13,190; Jan. 3; Sp. p. 1564; Gaz. vol. 162; p. 248.
Sealing device. F. J. Macklin, C. Harbison, and F. W. Trimmer. No. 985,914; Mar. 7; Sp. p. 335; Gaz. vol. 164; p. 54.
Sealing device. E. Cathels. No. 991,479; May 9; Sp. p. 1391; Gaz. vol. 166; p. 263.
Sealing device. C. R. Keeran. No. 996,769; July 4; Sp. p. 340; Gaz. vol. 168; p. 58.
Sealing device, Bottle-. L. J. Crecelius. No. 990,529; Apr. 25; Sp. p. 4869; Gaz. vol. 165; p. 849.
Sealing device, Bottle-. C. C. Parker. No. 1,002,079; Aug. 29; Sp. p. 6150; Gaz. vol. 169; p. 1112.
Sealing device, Can-. E. D. Waterbury. No. 999,612; Aug. 1; Sp. p. 818; Gaz. vol. 169; p. 143.
Sealing device, Envelop-. H. York. No. 988,615; Apr. 4; Sp. p. 703; Gaz. vol. 165; p. 112.
Sealing-head for applying jar-caps. E. D. Schmitt. No. 1,003,519; Sept. 19; Sp. p. 2890; Gaz. vol. 170; p. 528.
Sealing-head for applying jar caps or closures. E. D. Schmitt. No. 981,009; Jan. 10; Sp. p. 1916; Gaz. vol. 162; p. 317.
Sealing-head for bottle-capping machines. E. P. Wetmore. No. 986,333; Mar. 7; Sp. p. 1203; Gaz. vol. 164; p. 194.
Sealing jars and bottles, Apparatus for. R. E. Meyer. No. 994,179; June 6; Sp. p. 155; Gaz. vol. 167; p. 27.
Sealing-machine. D. McAuslin. No. 995,073; June 13; Sp. p. 2157; Gaz. vol. 167; p. 374.
Sealing machine, Bottle-. C. J. Marks. No. 990,820; Apr. 25; Sp. p. 5502; Gaz. vol. 165; p. 948.
Sealing machine, Carton-. T. Moss. No. 990,491; Apr. 25; Sp. p. 4787; Gaz. vol. 165; p. 837.
Sealing machine, Envelop-. W. E. Jackson. No. 988,713; Apr. 4; Sp. p. 922; Gaz. vol. 165; p. 146.
Sealing machine, Envelop-. E. J. Brasseur. No. 989,229; Apr. 11; Sp. p. 1972; Gaz. vol. 165; p. 339.
Sealing machine, Envelop-. R. E. Nichols. No. 1,008,359; Nov. 14; Sp. p. 1599; Gaz. vol. 172; p. 289.
Sealing machine, Package-. F. M. Peters and H. H. Hungerford. No. 997,580; July 11; Sp. p. 2035; Gaz. vol. 168; p. 363.
Sealing machine, Tape-. W. Chichester and C. E. Russell. No. 1,003,233; Sept. 12; Sp. p. 2318; Gax. vol. 170; p. 397.
Sealing material for bottles, &c. E. C. and V. E. Smith. No. 983,319; Feb. 7; Sp. p. 135; Gaz. vol. 163; p. 24.
Sealing means for boxes. E. E. Flora. No. 996,918; July 4; Sp. p. 663; Gaz. vol. 168; p. 108.
Sealing means for vacuum-jackets. J. L. Fate. No. 988,324; Apr. 4; Sp. p. 62; Gaz. vol. 165; p. 13.
Sealing newspapers and for similar purposes, Apparatus for. F. H. Sterling. No. 993,468; May 30; Sp. p. 5661; Gaz. vol. 166; p. 1036.
Sealing of package-cases, Machine for facilitating. C. W. Butterfield. No. 996,563; June 27; Sp. p. 5402; Gaz. vol. 167; p. 945.
Seam-closing strip. F. W. Merrick. No. 985,748; Feb. 28; Sp. p. 5424; Gaz. vol. 163; p. 951.
Seam for sewed articles. W. Arbetter. No. 996,552; June 27; Sp. p. 5382; Gaz. vol. 167; p. 942.
Seam-packing composition, Solderless-can-. B. H. Kannenberg. No. 1,006,098; Oct. 17; Sp. p. 3344; Gaz. vol. 171; p. 596.
Seam-rubbing machine. V. P. Buck. No. 1,011,737; Dec. 12; Sp. p. 3015; Gaz. vol. 173; p. 503.
Seam-setting mechanism. J. Nazel. No. 988,373; Apr. 4; Sp. p. 179; Gaz. vol. 165; p. 30.
Seaming and calking knife. A. J. Compton. No. 1,012,601; Dec. 26; Sp. p. 4879; Gaz. vol. 173; p. 879.
Seaming machine, Can-top-. J. Maline. No. 1,000,100; Aug. 8; Sp. p. 1870; Gaz. vol. 169; p. 338.
Seaming the heads upon cans, Apparatus for. L. C. Sharp. No. 983,001; Jan. 31; Sp. p. 6204; Gaz. vol. 162; p. 1082.
Search-light. M. L. Severson. No. 1,012,457; Dec. 19; Sp. p. 4577; Gaz. vol. 173; p. 784.
Search-light bracket, Automatic swivel. O. B. Woodfield, O. M. Morris, and J. W. Gosling. No. 997,352; July 11; Sp. p. 1594; Gaz. vol. 168; p. 288.
Search-light projector. E. A. Edmonds. No. 993,971; May 30; Sp. p. 6718; Gaz. vol. 166; p. 1209.
Search-light shock-absorber. L. McNamee. No. 1,000,834; Aug. 15; Sp. p. 3486; Gaz. vol. 169; p. 627.
Seasickness and also applicable to lifts on board ship, Device for preventing. H. Baumgartner. No. 991,820; May 9; Sp. p. 2134; Gaz. vol. 166; p. 380.
Seasoning material and making same. C. Ellis. No. 1,002,506; Sept. 5; Sp. p. 530; Gaz. vol. 170; p. 107.
Seat: *See* Adjustable seat; Box-seat; Bracket-seat; Buggy-seat; Car-seat; Closet-seat; Commode-seat; Harvester-seat; Hinged seat; Jack-seat; Shifting seat; Spring-seat; Toilet-seat; Valve-seat; Vehicle-seat; Wagon-seat; Wall-seat; Water-closet seat; Window-washing seat.
Seat. E. A. Thomas. No. 990,315; Apr. 25; Sp. p. 4366; Gaz. vol. 165; p. 773.
Seat. C. Blaylock. No. 1,001,610; Aug. 29; Sp. p. 5146; Gaz. vol. 169; p. 954.
Seat. A. L. Morton. No. 1,004,458; Sept. 26; Sp. p. 4992; Gaz. vol. 170; p. 878.
Seat. A. Gertenbach. No. 1,007,779; Nov. 7; Sp. p. 287; Gaz. vol. 172; p. 45.
Seat attachment, Closet-. G. J. Moriarty. No. 985,535; Feb. 28; Sp. p. 4965; Gaz. vol. 163; p. 878.
Seat attachment, Hinged-. W. G. Winans. No. 985,239; Feb. 28; Sp. p. 4300; Gaz. vol. 163; p. 777.
Seat attachment, Spring-. F. C. Hoffer. No. 1,006,658; Oct. 24; Sp. p. 4629; Gaz. vol. 171; p. 826.
Seat-back spring. C. W. Schultz and E. A. Sweeney. No. 999,678; Aug. 1; Sp. p. 949; Gaz. vol. 169; p. 166.
Seat-back spring, Vehicle. C. W. Schultz and E. A. Sweeney. No. 999,677; Aug. 1; Sp. p. 947; Gaz. vol. 169; p. 166.
Seat-clip. G. F. Danielson. No. 995,059; June 13; Sp. p. 2124; Gaz. vol. 167; p. 369.
Seat construction, Spring-. F. B. King. No. 986,723; Mar. 14; Sp. p. 2046; Gaz. vol. 164; p. 358.
Seat-cover. I. M. Curtis. No. 1,006,915; Oct. 24; Sp. p. 5210; Gaz. vol. 171; p. 916.
Seats, Back-rest for machine-. E. Johnson. No. 1,000,814; Aug. 15; Sp. p. 3446; Gaz. vol. 169; p. 620.
Seats, Drop back-rest for. H. Conboy. No. 1,003,034; Sept. 12; Sp. p. 1887; Gaz. vol. 170; p. 326.
Secondary battery. G. I. Rawson and L. B. Shultz. No. 996,676; July 4; Sp. p. 161; Gaz. vol. 168; p. 28.
Secondary battery. C. J. Coleman. No. 1,008,525; Nov. 14; Sp. p. 2029; Gaz. vol. 172; p. 347.
Secondary or storage battery. B. Ford. No. 986,449; Mar. 14; Sp. p. 1467; Gaz. vol. 164; p. 264.
Secondary or storage battery. N. Dodge. No. 1,000,330; Aug. 8; Sp. p. 2349; Gaz. vol. 169; p. 416.
Section breaker and insulator. W. T. Carns and T. L. Brown. No. 980,200; Jan. 3; Sp. p. 41; Gaz. vol. 162; p. 10.
Sectional boiler. A. B. Reck. No. 1,000,038; Aug. 8; Sp. p. 1691; Gaz. vol. 169; p. 317.
Sectional chest. G. P. Tilton. No. 984,784; Feb. 21; Sp. p. 3337; Gaz. vol. 163; p. 588.
Sectional rod. W. H. Stewart. No. 1,010,702; Dec. 5; Sp. p. 664; Gaz. vol. 173; p. 106.
Sectional wheel. E. B. Fitzgerald. No. 987,224; Mar. 21; Sp. p. 3095; Gaz. vol. 164; p. 561.
Security-bolt for vehicle wheel-tires. J. D. Rowland. No. 1,001,891; Aug. 29; Sp. p. 5767; Gaz. vol. 169; p. 1051.
Sediment-remover. A. Martinelli. No. 982,734; Jan. 24; Sp. p. 5597; Gaz. vol. 162; p. 963.
Seed and fertilizer distributer. T. J. King. No. 997,299; July 11; Sp. p. 1485; Gaz vol. 168; p. 271.
Seed and fertilizer distributer. A. Butler. No. 999,151; July 25; Sp. p. 5562; Gaz. vol. 168; p. 989.
Seed and fertilizer drill. P. M. Metzler. No. 1,006,771; Oct. 24; Sp. p. 4867; Gaz. vol. 171; p. 864.
Seed-cleaner and grain-separator. J. C. Benson. No. 1,002,555; Sept. 5; Sp. p. 833; Gaz. vol. 170; p. 123.
Seed cleaner, Cotton-. F. Phelps. No. 1,005,297; Oct. 10; Sp. p. 1579; Gaz. vol. 171; p. 285.
Seed-cleaning machine, Cotton-. J. B. Cornwall. No. 989,233; Apr. 11; Sp. p. 1983; Gaz. vol. 165; p. 341.

Alphabetical list of inventions—Continued.

Seed conveyer, Cotton-. W. N. James. No. 988,101; Mar. 28; Sp. p. 5016; Gaz. vol. 164; p. 889.
Seed-corn grader. C. Hunnicutt. No. 1,009,069; Nov. 21; Sp. p. 3218; Gaz. vol. 172; p. 571.
Seed-cotton cleaner. M. I. Flowers. No. 1,006,542; Oct. 24; Sp. p. 4393; Gaz. vol. 171; p. 785.
Seed-cotton cleaner and rock-catcher. N. L. Davis. No. 1,003,884; Sept. 19; Sp. p. 3674; Gaz. vol. 170; p. 653.
Seed culler, Cotton-. B. Bowers and O. H. Franklin. No. 991,418; May 2; Sp. p. 1259; Gaz. vol. 166; p. 210.
Seed delinter, Cotton-. W. E. Worth. No. 983,527; Feb. 7; Sp. p. 573; Gaz. vol. 163; p. 92.
Seed-delinting machine, Cotton-. N. W. L. Brown. No. 997,177; July 4; Sp. p. 1228; Gaz. vol. 168; p. 199.
Seed-distributer. W. H. Beckett. No. 1,002,800; Sept. 5; Sp. p. 1365; Gaz. vol. 170; p. 208.
Seed-feeding device. P. A. Custer. No. 1,004,749; Oct. 3; Sp. p. 436; Gaz. vol. 171; p. 72.
Seed linter, Cotton-. C. H. Fulson. No. 1,005,955; Oct. 17; Sp. p. 3050; Gaz. vol. 171; p. 549.
Seed, Milling cotton-. H. E. Hawk. No. 983,711; Feb. 7; Sp. p. 977; Gaz. vol. 163; p. 155.
Seed or the like, Roll for delinting cotton-. P. White. No. 986,415; Mar. 7; Sp. p. 1385; Gaz. vol. 164; p. 223.
Seed separator, Cotton-. J. B. Clay and W. J. Hogue. No. 1,010,235; Nov. 28; Sp. p. 5676; Gaz. vol. 172; p. 1016.
Seed-tester. J. H. Brown. No. 984,746; Feb. 21; Sp. p. 3251; Gaz. vol. 163; p. 574.
Seeds of clover and other cereals, Machine for gathering fallen-out. W. Schick. No. 1,004,915; Oct. 3; Sp. p. 806; Gaz. vol. 171; p. 129.
Seeder and cultivator tooth. T. B. Rowell. No. 999,877; Aug. 8; Sp. p. 1356; Gaz. vol. 169; p. 262.
Seeder, Fruit-. T. H. Elliott. No. 981,076; Jan. 10; Sp. p. 2067; Gaz. vol. 162; p. 340.
Seeding and cultivating machine, Combined. H. Cordes. No. 985,570; Feb. 28; Sp. p. 5032; Gaz. vol. 163; p. 890.
Seeding-machine. S. Sörensen. No. 981,704; Jan. 17; Sp. p. 3416; Gaz. vol. 162; p. 578.
Seeding-machine regulating device. F. Melichar. No. 989,918; Apr. 18; Sp. p. 3488; Gaz. vol. 165; p. 607.
Seesaw. H. C. Benner. No. 995,433; June 20; Sp. p. 2922; Gaz. vol. 167; p. 521.
Seine delivering and hauling apparatus. J. J. Duffy. No. 1,012,065; Dec. 19; Sp. p. 3764; Gaz. vol. 173; p. 652.
Selecting mechanism. C. Butterfield. No. 984,417; Feb. 14; Sp. p. 2503; Gaz. vol. 163; p. 424.
Selecting system, Automatic. F. Schoenwolf. No. 988,390; Apr. 4; Sp. p. 218; Gaz. vol. 165; p. 35.
Selector mechanism. A. F. Dixon. No. 989,133; Apr. 11; Sp. p. 1760; Gaz. vol. 165; p. 307.
Selenium cell. O. Linder and J. B. Replogle. No. 1,011,824; Dec. 12; Sp. p. 3193; Gaz. vol. 173; p. 533.
Self-adjusting wrench. B. Witmer. No. 1,001,793; Aug. 29; Sp. p. 5539; Gaz. vol. 169; p. 1017.
Self-cleaning comb. J. J. Rauh. No. 992,250; May 16; Sp. p. 3052; Gaz. vol. 166; p. 557.
Self-heating iron. C. L. V. Mundhenk and R. T. Niswonger. No. 985,922; Mar. 7; Sp. p. 350; Gaz. vol. 164; p. 57.
Self-leveling table. B. K. Burns. No. 990,631; Apr. 25; Sp. p. 5072; Gaz. vol. 165; p. 884.
Self locking and unlocking mechanism. M. A. Basley. No. 1,012,053; Dec. 19; Sp. p. 3735; Gaz. vol. 173; p. 649.
Self-locking box. B. Martinoja. No. 1,010,289; Nov. 28; Sp. p. 5795; Gaz. vol. 172; p. 1037.
Self-lubricating wheel. V. W. Northrup and M. H. Mellott. No. 990,583; Apr. 25; Sp. p. 4978; Gaz. vol. 165; p. 868.
Self-lubricating wheel. S. S. Rigby. No. 998,395; July 18; Sp. p. 3926; Gaz. vol. 168; p. 695.
Self-lubricating wheel. T. G. Aultman. No. 1,000,883; Aug. 15; Sp. p. 3589; Gaz. vol. 169; p. 645.
Self-oiling engine. A. R. Chappell and E. S. Ormsby. No. 992,163; May 16; Sp. p. 2830; Gaz. vol. 166; p. 527.
Self-oiling wheel. G. H. Merwin. No. 987,810; Mar. 28; Sp. p. 4333; Gaz. vol. 164; p. 789.
Self-player instrument. W. B. Fleming. No. 992,178; May 16; Sp. p. 2858; Gaz. vol. 166; p. 532.
Self-setting trap. S. B. Mayhew. No. 996,869; July 4; Sp. p. 560; Gaz. vol. 168; p. 92.
Self-starter. T. E. Barnum. No. 989,687; Apr. 18; Sp. p. 2993; Gaz. vol. 165; p. 527.
Self-switching alarm. B. Uhlmann. No. 1,008,756; Nov. 14; Sp. p. 2545; Gaz. vol. 172; p. 429.
Selling device. J. G. Green. No. 1,011,946; Dec. 19; Sp. p. 3484; Gaz. vol. 173; p. 610.
Semaphore-blade. M. L. Blackburn and W. A. Stellers. No. 993,643; May 30; Sp. p. 6041; Gaz. vol. 166; p. 1098.
Semirotary motor. M. J. Weber and M. Huggins. No. 1,006,157; Oct. 17; Sp. p. 3491; Gaz. vol. 171; p. 619.
Semisteel and the product thereof, Making. F. W. King. No. 988,270; Mar. 28; Sp. p. 5332; Gaz. vol. 164; p. 943.
Sensitive layer-carriers, Device for exposing. P. Kaemmerer. No. 984,007; Feb. 14; Sp. p. 1651; Gaz. vol. 163; p. 285.
Separable and adjustable screen. S. S. Cooke and F. Noblitt. No. 992,857; May 23; Sp. p. 4345; Gaz. vol. 166; p. 799.
Separating and washing apparatus. C. E. Christ. No. 999,545; Aug. 1; Sp. p. 699; Gaz. vol. 169; p. 120.
Separating apparatus. F. H. Mason and T. B. Griffin. No. 1,005,255; Oct. 10; Sp. p. 1483; Gaz. vol. 171; p. 269.
Separating apparatus, Particle-. D. K. Swartwout. No. 985,953; Mar. 7; Sp. p. 418; Gaz. vol. 164; p. 67.
Separating-machine. F. M. Cole. No. 1,008,697; Nov. 14; Sp. p. 2417; Gaz. vol. 172; p. 408.
Separating-machine. T. F. Morse. No. 1,013,040; Dec. 26; Sp. p. 5889; Gaz. vol. 173; p. 1030.
Separating machine, Material-. W. Youlten. No. 1,010,104; Nov. 28; Sp. p. 5420; Gaz. vol. 172; p. 971.
Separating solids and liquids. E. G. Spilsbury. No. 994,281; June 6; Sp. p. 370; Gaz. vol. 167; p. 63.
Separating substances in suspension. B. Schwerin. No. 993,888; May 30; Sp. p. 6559; Gaz. vol. 166; p. 1182.
Separator: *See* Asbestos-separator; Battery-separator; Battery-plate separator; Boiler-separator; Bow-socket separator; Centrifugal separator; Chaff-separator; Coal-separator; Coal and slate separator; Coffee-chaff separator; Cotton-ginning-mechanism separator; Cream-separator; Dry separator; Dust-separator; Egg-separator; Electrostatic separator; Fruit-separator; Gasolene-separator; Grain-separator; Grain and seed separator; Liquid-separator; Magnetic separator; Milk-separator; Oil-separator; Oil and sand separator; Ore-separator; Pipe-separator; Pneumatic separator; Pneumatic dust-separator; Sand and slime separator; Seed-separator; Smoke-separator; Steam-separator; Steam and water separator; Vacuum-separator; Vehicle-top bow-separator.
Separator. B. Long. No. 986,581; Mar. 14; Sp. p. 1750; Gaz. vol. 164; p. 310.
Separator. S. H. Brown. No. 990,954; May 2; Sp. p. 274; Gaz. vol. 166; p. 47.
Separator. B. W. Kincaid. No. 991,212; May 2; Sp. p. 825; Gaz. vol. 166; p. 139.
Separator. G. E. Richmond. No. 996,526; June 27; Sp. p. 5331; Gaz. vol. 167; p. 933.
Separator. G. W. B. Saxton and W. B. H. Fairchild. No. 1,001,774; Aug. 29; Sp. p. 5498; Gaz. vol. 169; p. 1010.
Separator. R. E. Hobart. No. 1,005,428; Oct. 10; Sp. p. 1870; Gaz. vol. 171; p. 331.
Separator. L. Meyer. No. 1,007,722; Nov. 7; Sp. p. 152; Gaz. vol. 172; p. 25.
Separator and purifier. J. Cox. No. 1,010,239; Nov. 28; Sp. p. 5689; Gaz. vol. 172; p. 1017.
Separator-bowl. J. C. Alexander. No. 994,553; June 6; Sp. p. 937; Gaz. vol. 167; p. 155.
Separator-disk rack. C. H. Shaw. No. 996,150; June 27; Sp. p. 4461; Gaz. vol. 167; p. 807.
Separator-trap. E. C. Kelly, Jr. No. 1,005,433; Oct. 10; Sp. p. 1881; Gaz. vol. 171; p. 333.
Separators, Blue-milk outlet in centrifugal. A. L. Christenson. No. 982,200; Jan. 17; Sp. p. 4471; Gaz. vol. 162; p. 750.
Separatory apparatus. C. A. Jacobson and S. C. Dinsmore. No. 984,923; Feb. 21; Sp. p. 3594; Gaz. vol. 163; p. 634.
Service and valve box, Water and gas. J. B. Heim. No. 981,262; Jan. 10; Sp. p. 2504; Gaz. vol. 162; p. 407.
Service-box section. P. Mueller. No. 1,000,108; Aug. 8; Sp. p. 1894; Gaz. vol. 169; p. 341.
Service-meter system. C. S. Winston. No. 1,012,780; Dec. 26; Sp. p. 5292; Gaz. vol. 173; p. 943.
Serving apparatus. J. Hall, Jr. No. 998,289; July 18; Sp. p. 3694; Gaz. vol. 168; p. 658.
Serving device. T. J. Burke. No. 987,429; Mar. 21; Sp. p. 3523; Gaz. vol. 164; p. 630.
Serving device. C. A. Stenius. No. 1,002,331; Sept. 5; Sp. p. 339; Gaz. vol. 170; p. 48.
Serving-table. E. B. Nora-Gon. No. 980,328; Jan. 3; Sp. p. 289; Gaz. vol. 162; p. 53.
Serving-table, Movable. J. J. Gabriel. No. 996,636; July 4; Sp. p. 88; Gaz. vol. 168; p. 16.
Settling-tank. R. W. Dull. No. 1,005,522; Oct. 10; Sp. p. 2070; Gaz. vol. 171; p. 364.
Severing mechanism. R. B. Craig and A. Coffman. No. 981,534; Jan. 10; Sp. p. 3068; Gaz. vol. 162; p. 500.
Sewage-disposal system. E. T. Welcome. No. 980,463; Jan. 3; Sp. p. 615; Gaz. vol. 162; p. 161.
Sewage-ejector, Automatic. W. P. Anderson. No. 1,008,884; Nov. 14; Sp. p. 2804; Gaz. vol. 172; p. 472.
Sewage, refuse, or the like, Machine for treating. A. Martin and A. Whitcomb. No. 981,445; Jan. 10; Sp. p. 2909; Gaz. vol. 162; p. 470.
Sewer and culvert pipe. R. F. Hershfield. No. 988,339; Apr. 4; Sp. p. 101; Gaz. vol. 165; p. 18.
Sewer-cleaner. J. M. Holdaway. No. 986,462; Mar. 14; Sp. p. 1494; Gaz. vol. 164; p. 269.
Sewer construction. J. L. Potter. No. 987,398; Mar. 21; Sp. p. 3469; Gaz. vol. 164; p. 620.
Sewer-pipe. S. McAdoo. No. 996,023; June 20; Sp. p. 4189; Gaz. vol. 167; p. 728.
Sewer-pipe-cleaning apparatus. G. Jamnicky. No. 999,652; Aug. 1; Sp. p. 896; Gaz. vol. 169; p. 156.
Sewer-pipe joint-protector. F. W. Lang. No. 985,182; Feb. 28; Sp. p. 4164; Gaz. vol. 163; p. 758.
Sewer-pipe machine. J. H. Stewart. No. 1,000,638; Aug. 15; Sp. p. 3084; Gaz. vol. 169; p. 559.
Sewer-trap. A. W. Cram. No. 1,000,719; Aug. 15; Sp. p. 3244; Gaz. vol. 169; p. 586.

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Sewer vent-box. T. P. Moore. No. 992,377; May 16; Sp. p. 3345; Gaz. vol. 166; p. 602.
Sewers, Fitting for vents of. J. J. Mitchell. No. 999,053; July 25; Sp. p. 5392; Gaz. vol. 168; p. 959.
Sewed-article seam. J. C. Goodwin. No. 1,011,186; Dec. 12; Sp. p. 1770; Gaz. vol. 173; p. 309.
Sewed-article seam. W. Arbetter. No. 1,012,791; Dec. 26; Sp. p. 5319; Gaz. vol. 173; p. 947.
Sewed articles, Seam for. W. Arbetter. No. 1,009,273; Nov. 21; Sp. p. 3692; Gaz. vol. 172; p. 642.
Sewing and embroidering machine. R. Cornely. No. 1,003,986; Sept. 26; Sp. p. 3945; Gaz. vol. 170; p. 716.
Sewing attachment, Button-. W. S. and H. H. Holdaway. No. 991,153; May 2; Sp. p. 695; Gaz. vol. 166; p. 118.
Sewing, Book-. E. B. Pierce. No. 997,005; July 4; Sp. p. 884; Gaz. vol. 168; p. 140.
Sewing-box. H. H. Katterheinrich. No. 994,006; May 30; Sp. p. 6802; Gaz. vol. 166; p. 1221.
Sewing-cabinet. D. M. Morrison. No. 996,875; July 4; Sp. p. 570; Gaz. vol. 168; p. 94.
Sewing-machine. W. A. McCool. No. 983,507; Feb. 7; Sp. p. 537; Gaz. vol. 163; p. 86.
Sewing-machine. W. J. Butler. No. 984,074; Feb. 14; Sp. p. 1795; Gaz. vol. 163; p. 309.
Sewing-machine. M. M. Schenck. No. 986,224; Mar. 7; Sp. p. 967; Gaz. vol. 164; p. 157.
Sewing-machine. F. T. Ströbeck. No. 986,652; Mar. 14; Sp. p. 1908; Gaz. vol. 164; p. 336.
Sewing-machine. A. Rontke. No. 989,538; Apr. 11; Sp. p. 2655; Gaz. vol. 165; p. 446.
Sewing-machine. M. Hemleb. No. 990,131; Apr. 18; Sp. p. 3924; Gaz. vol. 165; p. 677.
Sewing-machine. J. A. Lohman. No. 993,452; May 30; Sp. p. 5628; Gaz. vol. 166; p. 1030.
Sewing-machine. W. N. Parkes. No. 994,532; June 6; Sp. p. 892; Gaz. vol. 167; p. 148.
Sewing-machine. J. Vannette. No. 998,053; July 18; Sp. p. 3142; Gaz. vol. 168; p. 572.
Sewing-machine. W. P. Gammons, Jr. No. 999,024; July 25; Sp. p. 5328; Gaz. vol. 168; p. 948.
Sewing-machine. J. L. Kleinman. No. 999,038; July 25; Sp. p. 5359; Gaz. vol. 168; p. 954.
Sewing-machine. H. E. Hawes. No. 999,718; Aug. 1; Sp. p. 1027; Gaz. vol. 169; p. 178.
Sewing-machine. W. P. Anthony. No. 1,001,186; Aug. 22; Sp. p. 4279; Gaz. vol. 169; p. 781.
Sewing-machine. W. Arbetter. No. 1,001,602; Aug. 29; Sp. p. 5128; Gaz. vol. 169; p. 951.
Sewing-machine. J. H. F. Browning. No. 1,002,560; Sept. 5; Sp. p. 846; Gaz. vol. 170; p. 125.
Sewing-machine. E. Erickson. No. 1,003,176; Sept. 12; Sp. p. 2186; Gaz. vol. 170; p. 375.
Sewing-machine. B. F. Mayo. No. 1,003,192; Sept. 12; Sp. p. 2218; Gaz. vol. 170; p. 381.
Sewing-machine. W. A. Mack. No. 1,005,250; Oct. 10; Sp. p. 1466; Gaz. vol. 171; p. 267.
Sewing-machine. W. H. Hugg. No. 1,005,645; Oct. 10; Sp. p. 2372; Gaz. vol. 171; p. 407.
Sewing-machine. M. Hemleb. No. 1,005,831; Oct. 17; Sp. p. 2757; Gaz. vol. 171; p. 503.
Sewing-machine. W. H. Hugg. No. 1,005,840; Oct. 17; Sp. p. 2779; Gaz. vol. 171; p. 506.
Sewing-machine. J. C. Ringe. No. 1,005,881; Oct. 17; Sp. p. 2873; Gaz. vol. 171; p. 522.
Sewing-machine. G. P. Comey. No. 1,006,535; Oct. 24; Sp. p. 4365; Gaz. vol. 171; p. 782.
Sewing-machine. M. H. Pearson and A. E. Jerram. No. 1,007,601; Oct. 31; Sp. p. 6704; Gaz. vol. 171; p. 1207.
Sewing-machine. C. F. Gray. No. 1,008,538; Nov. 14; Sp. p. 2061; Gaz. vol. 172; p. 352.
Sewing-machine. A. H. De Voe. No. 1,009,055; Nov. 21; Sp. p. 3189; Gaz. vol. 172; p. 565.
Sewing-machine. J. E. Miller. No. 1,009,165; Nov. 21; Sp. p. 3403; Gaz. vol. 172; p. 602.
Sewing-machine. C. H. T. Hagelstein. No. 1,009,408; Nov. 21; Sp. p. 3999; Gaz. vol. 172; p. 691.
Sewing-machine. E. A. Mealing. No. 1,012,211; Dec. 19; Sp. p. 4092; Gaz. vol. 173; p. 702.
Sewing-machine attachment. F. Marak. No. 982,619; Jan. 24; Sp. p. 5366; Gaz. vol. 162; p. 925.
Sewing-machine attachment. F. Bayer. No. 983,343; Feb. 7; Sp. p. 180; Gaz. vol. 163; p. 32.
Sewing-machine attachment. B. S. Alsop. No. 986,794; Mar. 14; Sp. p. 2198; Gaz. vol. 164; p. 382.
Sewing-machine attachment. S. Riner. No. 987,601; Mar. 21; Sp. p. 3866; Gaz. vol. 164; p. 689.
Sewing-machine attachment. H. B. Woehrle. No. 988,528; Apr. 4; Sp. p. 507; Gaz. vol. 165; p. 81.
Sewing-machine attachment. A. H. De Voe. No. 991,429; May 2; Sp. p. 1280; Gaz. vol. 166; p. 214.
Sewing-machine attachment. D. B. Ashman. No. 991,816; May 9; Sp. p. 2126; Gaz. vol. 166; p. 378.
Sewing-machine attachment. L. M. Tynes. No. 991,911; May 9; Sp. p. 2309; Gaz. vol. 166; p. 411.
Sewing-machine attachment. A. H. De Voe. No. 992,942; May 23; Sp. p. 4537; Gaz. vol. 166; p. 830.
Sewing-machine attachment. T. A. Teate. No. 995,499; June 20; Sp. p. 3056; Gaz. vol. 167; p. 545.
Sewing-machine attachment. S. Davis. No. 996,467; June 27; Sp. p. 5220; Gaz. vol. 167; p. 915.
Sewing-machine attachment. D. Coghill. No. 998,956; July 25; Sp. p. 5180; Gaz. vol. 168; p. 925.
Sewing-machine attachment. E. Rodman. No. 999,593; Aug. 1; Sp. p. 787; Gaz. vol. 169; p. 136.
Sewing-machine attachment. I. Spivak. No. 1,003,666; Sept. 19; Sp. p. 3221; Gaz. vol. 170; p. 581.
Sewing-machine attachment. D. Wald, O. C. Britsch, and M. Taigman. No. 1,003,830; Sept. 19; Sp. p. 3565; Gaz. vol. 170; p. 634.
Sewing-machine attachment. A. H. De Voe. No. 1,003,996; Sept. 26; Sp. p. 3973; Gaz. vol. 170; p. 719.
Sewing-machine attachment, Buttonhole-. E. J. Boyler. No. 983,265; Feb. 7; Sp. p. 11; Gaz. vol. 163; p. 4.
Sewing-machine binding attachment. C. F. Gray. No. 985,257; Feb. 28; Sp. p. 4331; Gaz. vol. 163; p. 783.
Sewing-machine binding attachment. M. B. Gardner. No. 1,007,936; Nov. 7; Sp. p. 652; Gaz. vol. 172; p. 101.
Sewing-machine binding attachment. A. Rontke. No. 1,008,563; Nov. 14; Sp. p. 2116; Gaz. vol. 172; p. 362.
Sewing-machine binding attachment. F. A. Sutton. No. 1,011,877; Dec. 12; Sp. p. 3312; Gaz. vol. 173; p. 550.
Sewing-machine, Blindstitch. W. A. McCool. No. 983,506; Feb. 7; Sp. p. 534; Gaz. vol. 163; p. 85.
Sewing-machine bobbin-winder. W. R. Blair. No. 1,000,577; Aug. 15; Sp. p. 2936; Gaz. vol. 169; p. 537.
Sewing-machine braid-guide. A. E. Wise. No. 1,012,573; Dec. 19; Sp. p. 4820; Gaz. vol. 173; p. 827.
Sewing machine, Button-. W. L. Barron. No. 998,595; July 25; Sp. p. 4338; Gaz. vol. 168; p. 795.
Sewing-machine button-sewing attachment. V. S. Todaro. No. 1,009,701; Nov. 21; Sp. p. 4570; Gaz. vol. 172; p. 787.
Sewing machine, Buttonhole-. H. C. Miller. No. 1,006,583; Oct. 24; Sp. p. 4486; Gaz. vol. 171; p. 801.
Sewing-machine buttonhole cutting and stitching attachment. J. A. Turck. No. 989,668; Apr. 18; Sp. p. 2952; Gaz. vol. 165; p. 520.
Sewing-machine buttonhole cutting and stitching attachment. R. B. Seward. No. 990,601; Apr. 25; Sp. p. 5020; Gaz. vol. 165; p. 874.
Sewing-machine buttonhole cutting and stitching attachment. J. A. Turck. No. 990,610; Apr. 25; Sp. p. 5036; Gaz. vol. 165; p. 877.
Sewing-machine buttonhole-sewing attachment. E. J. Boyler and W. Kohler. No. 983,264; Feb. 7; Sp. p. 8; Gaz. vol. 163; p. 4.
Sewing-machine buttonhole-stitching attachment. W. J. Robinson. No. 1,012,709; Dec. 26; Sp. p. 5119; Gaz. vol. 173; p. 918.
Sewing-machine buttonhole-working attachment. F. Spaulding. No. 1,000,126; Aug. 8; Sp. p. 1934; Gaz. vol. 169; p. 348.
Sewing-machine channel-guide mechanism, Shoe-. E. E. Winkley. No. 1,002,619; Sept. 5; Sp. p. 988; Gaz. vol. 170; p. 146.
Sewing-machine cutting appliance. K. A. Strohmaier. No. 1,012,746; Dec. 26; Sp. p. 5199; Gaz. vol. 173; p. 931.
Sewing-machine darning attachment. D. L. Anthony. No. 1,004,132; Sept. 26; Sp. p. 4321; Gaz. vol. 170; p. 768.
Sewing-machine electric motor. F. P. Huyck. No. 985,678; Feb. 28; Sp. p. 5244; Gaz. vol. 163; p. 926.
Sewing-machine electric-motor attachment. H. S. Baldwin. No. 993,944; May 30; Sp. p. 6669; Gaz. vol. 166; p. 1200.
Sewing-machine embroidering attachment. M. Ackerman. No. 983,193; Jan. 31; Sp. p. 6584; Gaz. vol. 162; p. 1145.
Sewing-machine embroidery attachment. H. Richter. No. 994,033; May 30; Sp. p. 6852; Gaz. vol. 166; p. 1230.
Sewing-machine feed mechanism. C. A. Dearborn. No. 991,705; May 9; Sp. p. 1902; Gaz. vol. 166; p. 343.
Sewing-machine feed mechanism. A. L. Dawson. No. 1,002,652; Sept. 5; Sp. p. 1042; Gaz. vol. 170; p. 156.
Sewing-machine feeding mechanism. W. S. Brown. No. 986,682; Mar. 14; Sp. p. 1963; Gaz. vol. 164; p. 346.
Sewing-machine feeding mechanism. A. Grieb. No. 1,002,265; Sept. 5; Sp. p. 176; Gaz. vol. 170; p. 22.
Sewing-machine feeding-off device. A. Dirmann. No. 985,733; Feb. 28; Sp. p. 5399; Gaz. vol. 163; p. 946.
Sewing-machine feeding or ruffling mechanism. L. Onderdonk. No. 990,160; Apr. 18; Sp. p. 3985; Gaz. vol. 165; p. 687.
Sewing-machine finger-guard. M. Mashbir. No. 1,000,740; Aug. 15; Sp. p. 3286; Gaz. vol. 169; p. 594.
Sewing-machine folder. C. E. McLin and J. S. Bachman. No. 1,001,546; Aug. 22; Sp. p. 4997; Gaz. vol. 169; p. 901.
Sewing-machine folder. A. Laubascher. No. 1,005,238; Oct. 10; Sp. p. 1438; Gaz. vol. 171; p. 263.
Sewing-machine folder or binder. J. P. Weis. No. 1,012,776; Dec. 26; Sp. p. 5284; Gaz. vol. 173; p. 942.
Sewing-machine folding and cording attachment. A. Laubscher. No. 994,761; June 13; Sp. p. 1456; Gaz. vol. 167; p. 268.
Sewing-machine folding and guiding attachment. C. T. McKane. No. 983,388; Feb. 7; Sp. p. 283; Gaz. vol. 163; p. 48.
Sewing-machine for fancy stitch and embroidery work. R. Brown. No. 986,354; Mar. 7; Sp. p. 1253; Gaz. vol. 164; p. 202.

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Sewing-machine for finishing buttonholes. C. A. Dahl and C. H. T. Hagelstein. No. 987,966; Mar. 28; Sp. p. 4730; Gaz. vol. 164; p. 844.
Sewing-machine for lasting boots and shoes. J. E. Jackson. No. 985,347; Feb. 28; Sp. p. 4517; Gaz. vol. 163; p. 813.
Sewing-machine friction-clutch. C. E. Colegrove. No. 990,033; Apr. 18; Sp. p. 3735; Gaz. vol. 165; p. 646.
Sewing machine, Fur-. F. B. Miller, Jr. No. 988,278; Mar. 28; Sp. p. 5347; Gaz. vol. 164; p. 946.
Sewing-machine gage. S. A. Lyons. No. 995,795; June 20; Sp. p. 3731; Gaz. vol. 167; p. 650.
Sewing-machine guard. G. Frye. No. 991,496; May 9; Sp. p. 1429; Gaz. vol. 166; p. 269.
Sewing-machine guide. A. H. De Voe. No. 991,430; May 2; Sp. p. 1285; Gaz. vol. 166; p. 214.
Sewing-machine guide. G. E. Molyneux. No. 1,011,473; Dec. 12; Sp. p. 2408; Gaz. vol. 173; p. 411.
Sewing-machine, Hemstitch. C. M. Abercrombie. No. 1,012,182; Dec. 19; Sp. p. 4020; Gaz. vol. 173; p. 692.
Sewing machine, Inseam shoe-. A. Eppler. No. 1,003,175; Sept. 12; Sp. p. 2185; Gaz. vol. 170; p. 375.
Sewing-machine lift and drop head mechanism. W. C. Free. No. 1,005,952; Oct. 17; Sp. p. 3043; Gaz. vol. 171; p. 548.
Sewing-machine looper. J. P. Weis. No. 1,000,134; Aug. 8; Sp. p. 1949; Gaz. vol. 169; p. 351.
Sewing-machine looper mechanism. J. P. Weis. No. 990,414; Apr. 25; Sp. p. 4604; Gaz. vol. 165; p. 810.
Sewing-machine looper mechanism. G. E. Molyneux. No. 1,000,836; Aug. 15; Sp. p. 3489; Gaz. vol. 169; p. 627.
Sewing-machine motor mechanism. R. F. Howard. No. 987,804; Mar. 28; Sp. p. 4322; Gaz. vol. 164; p. 787.
Sewing-machine needle mechanism. O. E. Brown. No. 1,001,809; Aug. 29; Sp. p. 5576; Gaz. vol. 169; p. 1022.
Sewing-machine or attachment for same. A. E. Holmberg. No. 984,562; Feb. 21; Sp. p. 2857; Gaz. vol. 163; p. 508.
Sewing-machine, Overedging. J. P. Weis. No. 990,410; Apr. 25; Sp. p. 4587; Gaz. vol. 165; p. 808.
Sewing-machine, Overseaming. A. Grieb. No. 982,717; Jan. 24; Sp. p. 5564; Gaz. vol. 162; p. 958.
Sewing-machine, Overseaming. J. Heggie. No. 998,770; July 25; Sp. p. 4752; Gaz. vol. 168; p. 859.
Sewing-machine, Overseaming. A. Grieb. No. 1,011,187; Dec. 12; Sp. p. 1771; Gaz. vol. 173; p. 309.
Sewing machine, Pad-. J. P. Weis. No. 1,012,775; Dec. 26; Sp. p. 5253; Gaz. vol. 173; p. 941.
Sewing-machine pedal. H. Riecke. No. 994,708; June 6; Sp. p. 1287; Gaz. vol. 167; p. 210.
Sewing-machine presser-bar-clamping device. C. McNeil. No. 984,690; Feb. 21; Sp. p. 3126; Gaz. vol. 163; p. 554.
Sewing-machine presser-foot. W. H. Stedman. No. 1,002,330; Sept. 5; Sp. p. 337; Gaz. vol. 170; p. 48.
Sewing-machine presser-foot attachment. G. S. Herfurth. No. 991,986; May 9; Sp. p. 2456; Gaz. vol. 166; p. 436.
Sewing-machine presser-foot lifter. I. P. Nichols. No. 989,864; Apr. 18; Sp. p. 3371; Gaz. vol. 165; p. 588.
Sewing-machine presser-foot-lifting mechanism. J. Heggie. No. 998,845; July 25; Sp. p. 4914; Gaz. vol. 168; p. 884.
Sewing-machine presser-foot-lifting mechanism. W. H. Stedman. No. 1,002,008; Aug. 29; Sp. p. 6017; Gaz. vol. 169; p. 1089.
Sewing-machine presser-foot mechanism. J. P. Weis. No. 990,413; Apr. 25; Sp. p. 4601; Gaz. vol. 165; p. 810.
Sewing-machine presser-foot mechanism. J. P. Weis. No. 990,614; Apr. 25; Sp. p. 5043; Gaz. vol. 165; p. 878.
Sewing-machine pull-off mechanism. J. P. Weis. No. 990,412; Apr. 25; Sp. p. 4597; Gaz. vol. 165; p. 809.
Sewing-machine, Reciprocating-shuttle. J. O. Huffman and E. J. Lauffer. No. 995,539; June 20; Sp. p. 3142; Gaz. vol. 167; p. 559.
Sewing-machine, Revolving-hook. R. K. Hohmann. No. 1,000,265; Aug. 8; Sp. p. 2219; Gaz. vol. 169; p. 395.
Sewing-machine, Rotary. R. K. Hohmann. No. 983,902; Feb. 14; Sp. p. 1415; Gaz. vol. 163; p. 251.
Sewing-machine, Rotary. R. K. Hohmann. No. 1,007,106; Oct. 31; Sp. p. 5624; Gaz. vol. 171; p. 1033.
Sewing-machine ruffler. P. R. Greist and F. W. Beckert. No. 983,048; Jan. 31; Sp. p. 6320; Gaz. vol. 162; p. 1099.
Sewing-machine ruffler. A. H. De Voe. No. 984,081; Feb. 14; Sp. p. 1812; Gaz. vol. 163; p. 311.
Sewing-machine ruffler. E. J. Boyler. No. 1,011,907; Dec. 19; Sp. p. 3403; Gaz. vol. 173; p. 597.
Sewing-machine ruffler. E. J. Boyler. No. 1,011,908; Dec. 19; Sp. p. 3405; Gaz. vol. 173; p. 597.
Sewing-machine ruffler. F. L. Humeston. No. 1,011,957; Dec. 19; Sp. p. 3503; Gaz. vol. 173; p. 613.
Sewing-machine ruffler. W. R. Parsons. No. 1,012,000; Dec. 19; Sp. p. 3610; Gaz. vol. 173; p. 630.
Sewing-machine ruffling mechanism. A. H. De Voe. No. 984,080; Feb. 14; Sp. p. 1808; Gaz. vol. 163; p. 311.
Sewing-machine shiftable work-plate. J. P. Weis. No 992,526; May 16; Sp. p. 3649; Gaz. vol. 166; p. 655.
Sewing machine, Shoe-. E. E. Winkley. No. 993,490; May 30; Sp. p. 5708; Gaz. vol. 166; p. 1044.
Sewing machine, Shoe-. M. H. Pearson. No. 1,001,980; Aug. 29; Sp. p. 5959; Gaz. vol. 169; p. 1080.
Sewing machine, Shoe-. G. E. Warren. No. 1,007,905; Nov. 7; Sp. p. 587; Gaz. vol. 172; p. 91.
Sewing-machine shuttle. W. R. Blair. No. 983,869; Feb. 14; Sp. p. 1337; Gaz. vol. 163; p. 240.
Sewing-machine shuttle. H. A. Bates. No. 986,124; Mar. 7; Sp. p. 772; Gaz. vol. 164; p. 125.
Sewing-machine shuttle. H. A. Bates. No. 986,125; Mar. 7; Sp. p. 774; Gaz. vol. 164; p. 125.
Sewing-machine shuttle-carrier. H. Eichhorn. No. 1,005,177; Oct. 10; Sp. p. 1294; Gaz. vol. 171; p. 241.
Sewing-machine stands, Clamping mechanism for drop-leaf. C. E. Colegrove. No. 997,271; July 11; Sp. p. 1420; Gaz. vol. 168; p. 261.
Sewing-machine stitch-forming mechanism. J. P. Weis. No. 1,010,831; Dec. 5; Sp. p. 960; Gaz. vol. 173; p. 150.
Sewing-machine tension mechanism. F. S. Woodhead. No. 995,312; June 13; Sp. p. 2604; Gaz. vol. 167; p. 451.
Sewing-machine thread-controller. L. Onderdonk. No. 993,191; May 23; Sp. p. 5057; Gaz. vol. 166; p. 912.
Sewing-machine thread-controller. C. F. Gray. No. 994,509; June 6; Sp. p. 837; Gaz. vol. 167; p. 140.
Sewing-machine thread-controlling mechanism. J. P. Weis. No. 991,399; May 2; Sp. p. 1221; Gaz. vol. 166; p. 204.
Sewing-machine thread-controlling mechanism. C. M. Horton. No. 1,001,034; Aug. 22; Sp. p. 3974; Gaz vol. 169; p. 731.
Sewing-machine thread-cutting attachment. J. P. Weis. No. 1,010,830; Dec. 5; Sp. p. 957; Gaz. vol. 173; p. 150.
Sewing-machine thread-groove cutter. W. R. Blair. No. 1,009,716; Nov. 28; Sp. p. 4635; Gaz. vol. 172; p. 840.
Sewing-machine thread-lock. W. R. Blair. No. 982,234; Jan. 24; Sp. p. 4554; Gaz. vol. 162; p. 792.
Sewing-machine thread lock and take-up. W. R. Blair. No. 981,521; Jan. 10; Sp. p. 3043; Gaz. vol. 162; p. 496.
Sewing-machine thread-looper. W. Duffy. No. 992,863; May 23; Sp. p. 4365; Gaz. vol. 166; p. 802.
Sewing-machine thread-waxing device. O. E. Brown. No. 1,008,947; Nov. 14; Sp. p. 2942; Gaz. vol. 172; p. 491.
Sewing-machine threading attachment. A. Livingston. No. 1,004,445; Sept. 26; Sp. p. 4965; Gaz. vol. 170; p. 874.
Sewing-machine trimming attachment. W. Kohn. No. 985,115; Feb. 21; Sp. p. 3955; Gaz. vol. 163; p. 699.
Sewing-machine trimming mechanism. J. P. Weis. No. 996,383; June 27; Sp. p. 5035; Gaz. vol. 167; p. 887.
Sewing-machine trimming mechanism. A. Grieb. No. 1,005,643; Oct. 10; Sp. p. 2365; Gaz. vol. 171; p. 406.
Sewing-machine, Two-needle. L. Onderdonk. No. 999,179; July 25; Sp. p. 5616; Gaz. vol. 168; p. 998.
Sewing-machine, Two-reel. D. Flanagan. No. 981,629; Jan. 17; Sp. p. 3270; Gaz. vol. 162; p. 555.
Sewing-machine wax-pot. W. C. Meyer. No. 1,011,224; Dec. 12; Sp. p. 1860; Gaz. vol. 173; p. 322.
Sewing-machine welt-guide. C. Stegemann. No. 993,564; May 30; Sp. p. 5871; Gaz. vol. 166; p. 1070.
Sewing-machine work-gage, Buttonhole-. B. T. Leveque. No. 984,145; Feb. 14; Sp. p. 1925; Gaz. vol. 163; p. 331.
Sewing-machine work-holder. W. T. Hanley and J. H. Leary, Jr. No. 990,863; May 2; Sp. p. 85; Gaz. vol. 166; p. 16.
Sewing-machines, Attachment for guiding edging to. J. S. Johnston. No. 1,006,096; Oct. 17; Sp. p. 3341; Gaz. vol. 171; p. 596.
Sewing-machines, Chain-stitch looper for lock-stitch. A. G. Lamb. No. 990,660; Apr. 25; Sp. p. 5154; Gaz. vol. 165; p. 894.
Sewing-machines, Controller for electric motors for. F. P. Huyck. No. 985,758; Feb. 28; Sp. p. 5444; Gaz. vol. 163; p. 955.
Sewing machines, Electrically-heated wax-pot for shoe-. E. N. Chandler and T. B. Lewis. No. 990,109; Apr. 18; Sp. p. 3876; Gaz. vol. 165; p. 670.
Sewing-machines, Fabric-preparing device for. G. Niedermayr. No. 999,463; Aug. 1; Sp. p. 529; Gaz. vol. 169; p. 93.
Sewing-machines, Feeding device for. H. B. Gould. No. 1,001,388; Aug. 22; Sp. p. 4715; Gaz. vol. 169; p. 850.
Sewing-machines, Feeding mechanism for blindstitch. L. Onderdonk. No. 982,219; Jan. 17; Sp. p. 4514; Gaz. vol. 162; p. 757.
Sewing machines, Presser-foot mechanism for eyelet-. D. Noble. No. 995,706; June 20; Sp. p. 3508; Gaz. vol. 167; p. 618.
Sewing machines, Sack-holder for sack-. G. E. and E. D. Scott. No. 1,006,690; Oct. 24; Sp. p. 4694; Gaz. vol. 171; p. 836.
Sewing-machines, Variable-speed power-transmitter for. D. Noble. No. 1,001,674; Aug. 29; Sp. p. 5281; Gaz. vol. 169; p. 976.
Sewing machines, Wax-pot for shoe-. E. Smith. No. 984,446; Feb. 14; Sp. p. 2561; Gaz. vol. 163; p. 434.
Sewing machines, Welt-guide mechanism for welt-shoe-. A. Eppler. No. 1,005,181; Oct. 10; Sp. p. 1301; Gaz. vol. 171; p. 242.
Sewing-material holder, Combination. C. A. Mahr. No. 1,012,261; Dec. 19; Sp. p. 4195; Gaz. vol. 173; p. 719.
Sewing-receptacle. E. Jamerson. No. 1,001,645; Aug. 29; Sp. p. 5208; Gaz. vol. 169; p. 966.
Sewing the heads of mantles, Machine for. S. Cohn. No. 1,008,011; Nov. 7; Sp. p. 791; Gaz. vol. 172; p. 126.
Shackle. J. R. Morse. No. 988,587; Apr. 4; Sp. p. 647; Gaz. vol. 165; p. 104.

Alphabetical list of inventions—Continued.

Shackle. C. A. O. Berner. No. 1,002,120; Aug. 29; Sp. p. 6221; Gaz. vol. 169; p. 1124.
Shackle-strap. W. I. Bullard. No. 1,010,580; Dec. 5; Sp. p. 403; Gaz. vol. 173; p. 64.
Shade. R. M. Dixon. No. 994,577; June 6; Sp. p. 991; Gaz. vol. 167; p. 164.
Shade, Adjustable window-. D. H. Harnly. No. 991,060; May 2; Sp. p. 475; Gaz. vol. 166; p. 83.
Shade and curtain bracket. J. W. Winkleman. No. 995,392; June 13; Sp. p. 2814; Gaz. vol. 167; p 478.
Shade and curtain bracket, Adjustable. R. D. Lewis. No. 996,724; July 4; Sp. p. 252; Gaz. vol. 168; p. 44.
Shade and curtain bracket, Combined window-. J. M. Ashmore. No. 999,733; Aug. 8; Sp. p. 1076; Gaz. vol. 169; p. 214.
Shade and curtain holder. A. Bloom. No. 994,972; June 13; Sp. p. 1933; Gaz. vol. 167; p. 339.
Shade and curtain holder. E. Hayward. No. 1,003,403; Sept. 12; Sp. p. 2641; Gaz. vol. 170; p. 454.
Shade and curtain-pole fixture, Window-. A. Grubba. No. 984,214; Feb. 14; Sp. p. 2099; Gaz. vol. 163; p. 356.
Shade and curtain-pole support, Combined window-. A. R. Eshbaugh. No. 990,428; Apr. 25; Sp. p. 4638; Gaz. vol. 165; p. 816.
Shade and curtain-rod fixture, Extension window-. J. M. Trombly. No. 988,838; Apr. 4; Sp. p. 1165; Gaz. vol. 165; p. 186.
Shade and curtain support, Window. J. R. Harbaugh. No. 1,004,568; Oct. 3; Sp. p. 47; Gaz. vol. 171; p. 9.
Shade and fixture, Window-. W. L. Murphy. No. 1,011,234; Dec. 12; Sp. p. 1878; Gaz. vol. 173; p. 324.
Shade and reflector, Adjustable light. L. H. Spivey. No. 985,852; Mar. 7; Sp. p 197; Gaz. vol. 164; p. 32.
Shade-bracket. C. E. Wickliffe. No. 980,376; Jan. 3; Sp. p. 403; Gaz. vol. 162; p. 70.
Shade-bracket. J. F. Hughes. No. 1,002,403; Sept. 5; Sp. p. 516; Gaz. vol. 170; p. 72.
Shade-bracket. J. Kolb. No. 1,012,369; Dec. 19; Sp. p. 4417; Gaz. vol. 173; p. 756.
Shade-bracket and hanger-arm, Combined. E. B. Daum. No. 1,001,254; Aug. 22; Sp. p. 4417; Gaz. vol. 169; p. 802.
Shade bracket, Window-. L. S. Simpson. No. 985,848; Mar. 7; Sp. p. 192; Gaz. vol. 164; p. 31.
Shade bracket, Window-. D. F. McCarty. No. 988,122; Mar. 28; Sp. p. 5045; Gaz. vol. 164; p. 895.
Shade-fixture. A. S. Gornto. No. 996,482; June 27; Sp. p. 5252; Gaz. vol. 167; p. 921.
Shade fixture, Window-. C. Paré. No. 1,001,884; Aug. 29; Sp. p. 5752; Gaz. vol. 169; p. 1049.
Shade-guide. N. D. Stiles. No. 984,313; Feb. 14; Sp. p 2309; Gaz. vol. 163; p. 391.
Shade-holder. W. H. Perkins. No. 983,457; Feb. 7; Sp. p. 431; Gaz. vol. 163; p. 69.
Shade-holder. H. C. Hawks. No. 998,896; July 25; Sp. p. 5031; Gaz. vol. 168; p. 903.
Shade-holder. J. Stoddart. No. 1,002,090; Aug. 29; Sp. p. 6169; Gaz. vol. 169; p. 1115.
Shade-holder. E. Anderson and G. B. Thomas. No. 1,003,860; Sept. 19; Sp. p. 3633; Gaz. vol. 170; p. 645.
Shade-holder. F. E. Seeley and G. B. Thomas. No. 1,008,081; Nov. 7; Sp. p. 932; Gaz. vol. 172; p. 150.
Shade-holder. G. W. Goodridge. No. 1,008,900; Nov. 14; Sp. p. 2837; Gaz. vol. 172; p. 477.
Shade-holder. G. B. Thomas. No. 1,012,296; Dec. 19; Sp. p. 4273; Gaz. vol. 173; p. 732.
Shade-holder. G. B. Thomas. No. 1,012,297; Dec. 19; Sp. p. 4274; Gaz. vol. 173; p. 733.
Shade-holder for electric fixtures, &c. W. B. Spear. No. 993,419; May 30; Sp. p. 5558; Gaz. vol. 166; p. 1020.
Shade machine, Window-. E. O. Engberg. No. 984,127; Feb. 14; Sp. p. 1894; Gaz. vol. 163; p. 325.
Shade or reflector. G. L. Kraatz. No. 981,576; Jan. 10; Sp. p. 3150; Gaz. vol. 162; p. 514.
Shade roll and holder therefor, Adjustable window-. F. Ferrara. No. 1,005,184; Oct. 10; Sp. p. 1309; Gaz. vol. 171; p. 243.
Shade-roller. S. Hartshorn. No. 982,359; Jan. 24; Sp. p. 4829; Gaz. vol. 162; p. 837.
Shade-roller. C. K. Snavely. No. 1,008,748; Nov. 14; Sp. p. 2530; Gaz. vol. 172; p. 426.
Shade-roller and curtain-pole bracket, Adjustable. J. Baum. No. 1,012,183; Dec. 19; Sp. p. 4023; Gaz. vol. 173; p. 693.
Shade-roller and curtain-pole support, Combined. F. W. Roll, Sr., and J. V. King, Jr. No. 1,009,581; Nov. 21; Sp. p. 4355; Gaz. vol. 172; p. 750.
Shade-roller bracket. M. and G. J. Rhein. No. 993,107; May 23; Sp. p. 4895; Gaz. vol. 166; p. 887.
Shade-roller, Spring. W. M. Decker. No. 985,327; Feb. 28; Sp. p. 4481; Gaz. vol. 163; p. 807.
Shade-roller structure. C. H. Egelhoff and J. M. Huckins. No. 1,011,764; Dec. 12; Sp. p. 3061; Gaz. vol. 173; p. 512.
Shade-supporter. D. M. Hartsough. No. 1,003,045; Sept. 12; Sp. p. 1906; Gaz. vol. 170; p. 329.
Shade-supporting device. N. Mora. No. 982,976; Jan. 31; Sp. p. 6140; Gaz. vol. 162; p. 1073.
Shade trimmer, Window-. C. W. Dawson. No. 1,001,126; Aug. 22; Sp. p. 4172; Gaz. vol. 169; p. 763.
Shade, Window-. E. W. Webb and T. P. Convey. No. 1,004,319; Sept. 26; Sp. p. 4700; Gaz. vol. 170; p. 831.
Shades, Machine for making window-. F. F. Wright and H. G. Criswell. No. 992,323; May 16; Sp. p. 3213; Gaz. vol. 166; p. 583.
Shades on rollers, Machine for fastening and winding. L. B. Girard. No. 989,345; Apr. 11; Sp. p. 2233; Gaz. vol. 165; p. 379.
Shadower or insulator. F. A. Feldkamp. No. 1,011,179; Dec. 12; Sp. p. 1757; Gaz. vol. 173; p. 307.
Shaft-bearing. M. Wenger. No. 1,001,486; Aug. 22; Sp. p. 4885; Gaz. vol. 169; p. 882.
Shaft-casing. E. E. Fawcett. No. 1,003,096; Sept. 12; Sp. p. 2019; Gaz. vol. 170; p. 347.
Shaft-collar. C. Cook. No. 992,544; May 16; Sp. p. 3697; Gaz. vol. 166; p. 662.
Shaft-collar. H. T. Hallowell. No. 1,004,875; Oct. 3; Sp. p. 710; Gaz. vol. 171; p. 116.
Shaft, Combined cranking and power. R. Hatten. No. 1,006,656; Oct. 24; Sp p. 4627; Gaz. vol. 171; p. 825.
Shaft construction, Hollow-. A. C. Sargent. No. 1,012,018; Dec. 19; Sp. p. 3649; Gaz. vol. 173; p. 636.
Shaft-coupling. I. Lehman. No. 980,296; Jan. 3; Sp. p. 216; Gaz. vol. 162; p. 42.
Shaft-coupling. J. L. G. Rahder. No. 982,299; Jan. 24; Sp. p. 4713; Gaz. vol. 162; p. 815.
Shaft-coupling. R. Lindner. No. 983,070; Jan. 31; Sp. p. 6364; Gaz. vol. 162; p. 1106.
Shaft-coupling. C. Henriksson. No. 985,742; Feb. 28; Sp. p. 5413; Gaz. vol. 163; p. 949.
Shaft-coupling. J. Hormby. No. 987,878; Mar. 28; Sp. p 4501; Gaz. vol. 164; p. 813.
Shaft-coupling. J. G. Hänsler. No. 992,352; May 16; Sp. p. 3297; Gaz. vol. 166; p. 593.
Shaft-coupling. T. C. Dawson. No. 1,006,362; Oct. 17; Sp. p. 3968; Gaz. vol. 171; p. 691.
Shaft-coupling. M. Rotter. No. 1,007,312; Oct. 31; Sp. p. 6070; Gaz. vol. 171; p. 1108.
Shaft-coupling. W. H. Lieber. No. 1,007,363; Oct. 31; Sp. p. 6177; Gaz. vol. 171; p. 1126.
Shaft-coupling. O. Ekeberg and E. O. Goordman. No. 1,009,729; Nov. 28; Sp. p. 4648; Gaz. vol. 172; p. 844.
Shaft-coupling. F. R. Blair. No. 1,012,506; Dec. 19; Sp. p. 4672; Gaz. vol. 173; p. 802.
Shaft-coupling, Adjustable. W. Heyser. No. 997,062; July 4; Sp. p. 997; Gaz. vol. 168; p. 160.
Shaft-coupling, Elastic. G. Stauber. No. 988,742; Apr. 4; Sp. p. 974; Gaz. vol. 165; p. 154.
Shaft-coupling, Flexible. J. A. White. No. 982,164; Jan. 17; Sp. p. 4401; Gaz. vol. 162; p. 737.
Shaft-coupling, Flexible. F. H. Treat. No. 999,917; Aug. 8; Sp. p. 1451; Gaz. vol. 169; p. 275.
Shaft-coupling, Flexible. B. F. Augustine. No. 1,010,717; Dec. 5; Sp. p. 709; Gaz. vol. 173; p. 112.
Shaft-forming apparatus, Vehicle. G. A. Lambert. No. 995,688; June 20; Sp. p. 3476; Gaz. vol. 167; p. 612.
Shaft-governor. M. Kiblbeck. No. 1,000,922; Aug. 15; Sp. p. 3667; Gaz. vol. 169; p. 658.
Shaft-hanger. C. W. Levalley. No. 990,571; Apr. 25; Sp. p. 4951; Gaz. vol. 165; p. 864.
Shaft-hanger. J. F. Troendle. No. 991,184; May 2; Sp. p. 758; Gaz. vol. 166; p. 129.
Shaft-hanger support. J. Kahn. No. 992,877; May 23; Sp. p. 4388; Gaz. vol. 166; p. 806.
Shaft-holder. C. T. Streifert. No. 990,079; Apr. 18; Sp. p. 3812; Gaz. vol. 165; p. 661.
Shaft-lining. W. T. McCarthy. No. 1,008,727; Nov. 14; Sp. p. 2492; Gaz. vol. 172; p. 419.
Shaft-protector. H. F. M. Podeyn. No. 1,012,909; Dec. 26; Sp. p. 5588; Gaz. vol. 173; p. 986.
Shaft-releaser. E. L. Black. No. 1,003,396; Sept. 12; Sp. p. 2632; Gaz. vol. 170; p. 452.
Shaft-sinking cross-head, Safety. T. Bryant. No. 983,120; Jan. 31; Sp. p. 6458; Gaz. vol. 162; p. 1122.
Shaft-sinking, Safety device for. T. Bryant. No. 998,599; July 25; Sp. p. 4347; Gaz. vol. 168; p. 797.
Shaft spring-support, Wagon-. P. W. Zeller. No. 994,232; June 6; Sp. p. 268; Gaz. vol. 167; p. 46.
Shaft-support. W. M. Smith. No. 996,806; July 4; Sp. p. 417; Gaz. vol. 168; p. 70.
Shaft-support. F. Lursen, Jr. No. 999,383; Aug. 1; Sp. p. 382; Gaz. vol. 169; p. 67.
Shaft, Universally-jointed. A. Loomis. No. 1,010,060; Nov. 28; Sp. p. 5334; Gaz. vol. 172; p. 957.
Shafts, Adjustable means for affixing pointers to. F. Verplast. No. 1,011,285; Dec. 12; Sp. p. 2005; Gaz. vol. 173; p. 345.
Shafts, Flexible joint for. A. E. Zock. No. 981,736; Jan. 17; Sp. p. 3482; Gaz. vol. 162; p. 590.
Shafts in loose and watery strata, Sinking. E. Lardy. No. 1,003,141; Sept. 12; Sp. p. 2103; Gaz. vol. 170; p. 362.
Shafts in water-impregnated ground, Sinking deep. F. Billings. No. 989,110; Apr. 11; Sp. p. 1719; Gaz. vol. 165; p. 299.
Shafts, Lining-wall for. G. W. Jackson. No. 1,009,312; Nov. 21; Sp. p. 3765; Gaz. vol. 172; p. 656.
Shafting and pulleys, Device for removing keys from. J. Butsch. No. 986,133; Mar. 7; Sp. p. 787; Gaz. vol. 164; p. 127.
Shake-out box. J. R. McWane. No. 992,575; May 16; Sp. p. 3751; Gaz. vol. 166; p. 671.

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Shampoo-cap. L. and K. G. Lee. No. 986,728; Mar. 14; Sp. p. 2058; Gaz. vol. 164; p. 361.
Shampoo-shield. D. Nelson. No. 981,588; Jan. 10; Sp. p. 3178; Gaz. vol. 162; p. 518.
Shaper. C. D. Gibson and H. Baerbalck. No. 988,292; Mar. 28; Sp. p. 5378; Gaz. vol. 164; p. 951.
Shaper feed mechanism. G. K. Atkinson. No. 986,123; Mar. 7; Sp. p. 771; Gaz. vol. 164; p. 125.
Shaper-guard. P. Erickson. No. 987,452; Mar. 21; Sp. p. 3584; Gaz. vol. 164; p. 638.
Shaper rocker-arm. H. J. Averbeck. No. 1,009,460; Nov. 21; Sp. p. 4114; Gaz. vol. 172; p. 710.
Shaper slides, Support for draw-cut-. W. R. Carroll. No. 1,002,805; Sept. 5; Sp. p. 1378; Gaz. vol. 170; p. 209.
Shapers: Work-holder for. H. E. Morton and H. Mann. No. 991,347; May 2; Sp. p. 1116; Gaz. vol. 166; p. 186.
Shaping-machines, Work-holder for. H. E. Morton. No. 982,979; Jan. 31; Sp. p. 6149; Gaz. vol. 162; p. 1074.
Share, Slip-. L. S. Lewis. No. 985,813; Mar. 7; Sp. p. 91; Gaz. vol. 164; p. 19.
Sharpener, Blade-. P. E. Kopp. No. 1,011,211; Dec. 12; Sp. p. 1821; Gaz. vol. 173; p. 317.
Sharpener, Disk-. M. Quiry. No. 1,004,481; Oct. 3; Sp. p. 575; Gaz. vol. 171; p. 95.
Sharpener, Disk-. H. H. Vernon. No. 1,005,487; Oct. 10; Sp. p. 1996; Gaz. vol. 171; p. 351.
Sharpener, Disk-. J. R. Buttweiler. No. 1,008,695; Nov. 14; Sp. p. 2413; Gaz. vol. 172; p. 408.
Sharpener for talking-machine needles. E. P. Chaney. No. 1,009,894; Nov. 28; Sp. p. 4980; Gaz. vol. 172; p. 900.
Sharpener, Knife-. E. A. Thielemann. No. 993,734; May 30; Sp. p. 6262; Gaz. vol. 166; p. 1130.
Sharpener, Lawn-mower. F. C. Haynes. No. 1,000,334; Aug. 8; Sp. p. 2354; Gaz. vol. 169; p. 417.
Sharpener, Lawn-mower. F. Muhl. No. 1,004,894; Oct. 3; Sp. p. 765; Gaz. vol. 171; p. 123.
Sharpener, Planer-knife. H. J. Mitchell. No. 990,373; Apr. 25; Sp. p. 4487; Gaz. vol. 165; p. 793.
Sharpener, Planer-knife. W. Harper and F. W. Converse. No. 993,366; May 30; Sp. p. 5446; Gaz. vol. 166; p. 1005.
Sharpener, Razor-. A. A. Aydt. No. 987,787; Mar. 28; Sp. p. 4281; Gaz. vol. 164; p. 781.
Sharpener, Safety-razor. D. C. Williams. No. 998,442; July 18; Sp. p. 4009; Gaz. vol. 168; p. 711.
Sharpener, Saw-. A. Sipple. No. 996,732; July 4; Sp. p. 264; Gaz. vol. 168; p. 46.
Sharpener, Saw-. A. Strickland. No. 1,006,986; Oct. 24; Sp. p. 5351; Gaz. vol. 171; p. 939.
Sharpener, Scissors-. P. Riley. No. 990,592; Apr. 25; Sp. p. 5001; Gaz. vol. 165; p. 871.
Sharpener, Skate-. M. Oosdyke. No. 1,006,000; Oct. 17; Sp. p. 3135; Gaz. vol. 171; p. 563.
Sharpener, Skate-. F. C. Haynes. No. 1,006,940; Oct. 24; Sp. p. 5257; Gaz. vol. 171; p. 924.
Sharpeners, Feeding attachment for disk-. J. I. Depew. No. 1,007,850; Nov. 7; Sp. p. 480; Gaz. vol. 172; p. 71.
Sharpening and dressing parts of horse-clipping and other machines, Means for. W. J. Tinline. No. 1,002,095; Aug. 29; Sp. p. 6178; Gaz. vol. 169; p. 1117.
Sharpening apparatus, Blade-. R. T. Winn. No. 985,088; Feb. 21; Sp. p. 3902; Gaz. vol. 163; p. 690.
Sharpening attachment for meat-choppers, Knife-. A. H. Martin. No. 996,269; June 27; Sp. p. 4773; Gaz. vol. 167; p. 846.
Sharpening device. J. W. Crabill. No. 987,862; Mar. 28; Sp. p. 4442; Gaz. vol. 164; p. 807.
Sharpening device. J. W. Crabill. No. 992,339; May 16; Sp. p. 3265; Gaz. vol. 166; p. 589.
Sharpening device. H. E. Smith. No. 997,865; July 11; Sp. p. 2707; Gaz. vol. 168; p. 464.
Sharpening device for edge-tools. J. G. Bestgen. No. 984,464; Feb. 14; Sp. p. 2601; Gaz. vol. 163; p. 439.
Sharpening device for knives and the like. B. Brower and T. A. Weber. No. 989,692; Apr. 18; Sp. p. 3006; Gaz. vol. 165; p. 529.
Sharpening device for slicing-machines. W. B. Wolff and F. M. Schaefer. No. 986,617; Mar. 14; Sp. p. 1826; Gaz. vol. 164; p. 324.
Sharpening device, Lawn-mower-. O. Gerde and H. P. Kelly. No. 982,423; Jan. 24; Sp. p. 4963; Gaz. vol. 162; p. 858.
Sharpening device, Lawn-mower-. J. P. Jayme. No. 990,559; Apr. 25; Sp. p. 4930; Gaz. vol. 165; p. 860.
Sharpening device, Lawn-mower-knife-. L. Hayne. No. 997,291; July 11; Sp. p. 1468; Gaz. vol. 168; p. 269.
Sharpening device, Plow-. J. W. Wilhite. No. 1,006,613; Oct. 24; Sp. p. 4549; Gaz. vol. 171; p. 811.
Sharpening knives of chaff-cutters, Apparatus for. E. Turpin. No. 984,049; Feb. 14; Sp. p. 1739; Gaz. vol. 163; p. 299.
Sharpening machine, Cutlery-. J. W. Hunter. No. 1,007,951; Nov. 7; Sp. p. 687; Gaz. vol. 172; p. 106.
Sharpening machine, Disk-. F. H. Klenke. No. 993,325; May 23; Sp. p. 5332; Gaz. vol. 166; p. 955.
Sharpening machine, Plowshare-. L. B. Heslet. No. 983,714; Feb. 7; Sp. p. 986; Gaz. vol. 163; p. 156.
Sharpening machine, Razor-. P. E. Bird. No. 993,016; May 23; Sp. p. 4692; Gaz. vol. 166; p. 855.
Sharpening machine, Razor-. L. E. Denison. No. 1,001,735; Aug. 29; Sp. p. 5413; Gaz. vol. 169; p. 997.
Sharpening machine, Razor-blade-. E. I. Rains. No. 988,285; Mar. 28; Sp. p. 5362; Gaz. vol. 164; p. 949.
Sharpening machines, Carriage for gang-saw-. J. P. Hedstrom. No. 991,503; May 9; Sp. p. 1438; Gaz. vol. 166; p. 271.
Sharpening machines, Feed-finger for saw-. J. P. Hedstrom. No. 984,669; Feb. 21; Sp. p. 3075; Gaz. vol. 163; p. 545.
Sharpening taps and dies, Machine for. A. H. Graef. No. 983,993; Feb. 14; Sp. p. 1621; Gaz. vol. 163; p. 281.
Shaving-case. L. C. Thompson. No. 1,008,754; Nov. 14; Sp. p. 2542; Gaz. vol. 172; p. 428.
Shaving-cup. H. W. Montgomery. No. 995,800; June 20; Sp. p. 3741; Gaz. vol. 167; p. 652.
Shaving-cup. M. Sterner. No. 1,012,474; Dec. 19; Sp. p. 4605; Gaz. vol. 173; p. 790.
Shaving-cup, Indicating sealed. W. Hertzberg. No. 1,006,087; Oct. 17; Sp. p. 3321; Gaz. vol. 171; p. 593.
Shaving set. J. W. Hawkins. No. 998,576; July 18; Sp. p. 4285; Gaz. vol. 168; p. 757.
Shaving-stick holder and case, Combined. P. K. Williams. No. 1,006,420; Oct. 17; Sp. p. 4079; Gaz. vol. 171; p. 711.
Sheaf-loader. L. J. Collins. No. 1,004,149; Sept. 26; Sp. p. 4368; Gaz. vol. 170; p. 774.
Sheaf-shocker. W. H. Perrin. No. 999,251; Aug. 1; Sp. p. 116; Gaz. vol. 169; p. 22.
Shear-guide. F. H. Sumner. No. 1,005,082; Oct. 3; Sp. p. 1093; Gaz. vol. 171; p. 184.
Shears: *See* Animal-shears; Bench-shears; Clipping and pruning shears; Combination-shears; Compound-lever shears; Flying shears; Hand-shears; Hedge-shears; Metal-cutting shears; Sheep-shears; Steel shears; Traveling shears.
Shears. E. S. G. Lewis. No. 981,436; Jan. 10; Sp. p. 2892; Gaz. vol. 162; p. 467.
Shears. H. M. Swan. No. 989,824; Apr. 18; Sp. p. 3296; Gaz. vol. 165; p. 575.
Shears. T. Burkett. No. 993,646; May 30; Sp. p. 6048; Gaz. vol. 166; p. 1099.
Shears. E. S. Piper. No. 995,090; June 13; Sp. p. 2191; Gaz. vol. 167; p. 380.
Shears. J. Ogden. No. 1,005,287; Oct. 10; Sp. p. 1559; Gaz. vol. 171; p. 281.
Shears. L. Craig. No. 1,005,606; Oct. 10; Sp. p. 2290; Gaz. vol. 171; p. 394.
Shears. G. L. Raudebaugh. No. 1,007,605; Oct. 31; Sp. p. 6714; Gaz. vol. 171; p. 1208.
Shears and scissors. F. Meissner. No. 985,048; Feb. 21; Sp. p. 3835; Gaz. vol. 163; p. 677.
Shears and the like handle, Pruning-. W. Cronk. No. 999,703; Aug. 1; Sp. p. 992; Gaz. vol. 169; p. 173.
Shears, Attachment for. A. L. Parker. No. 1,001,979; Aug. 29; Sp. p. 5958; Gaz. vol. 169; p. 1080.
Shears, Bearing connection for. A. O. Slentz. No. 998,210; July 18; Sp. p. 3481; Gaz. vol. 168; p. 627.
Shears for cutting metal. C. Wachter. No. 983,585; Feb. 7; Sp. p. 721; Gaz. vol. 163; p. 112.
Shears, punches, presses, &c., Holding-down device for. K. C. Gardner and F. C. Biggert, Jr. No. 980,241; Jan. 3; Sp. p. 120; Gaz. vol. 162; p. 24.
Shears, Stop mechanism for. G. J. Bryen. No. 1,012,805; Dec. 26; Sp. p. 5343; Gaz. vol. 173; p. 951.
Shears, Tool for opening and stretching. F. Portillo. No. 990,499; Apr. 25; Sp. p. 4818; Gaz. vol. 165; p. 840.
Shearing-machine. A. S. Beauchamp. No. 980,910; Jan. 10; Sp. p. 1623; Gaz. vol. 162; p. 281.
Shearing-machine. H. John. No. 985,599; Feb. 28; Sp. p. 5091; Gaz. vol. 163; p. 901.
Shearing-machine. H. Kraut. No. 994,755; June 13; Sp. p. 1442; Gaz. vol. 167; p. 267.
Shearing-machine. J. F. Leake. No. 995,163; June 13; Sp. p. 2330; Gaz. vol. 167; p. 403.
Shearing-machine. N. E. Parish. No. 1,002,746; Sept. 5; Sp. p. 1266; Gaz. vol. 170; p. 189.
Shearing-machine. Automatic. E. Brown and S. H. Martin. No. 1,009,028; Nov. 14; Sp. p. 3123; Gaz. vol. 172; p. 520.
Sheave-block. J. T. Johnson. No. 984,141; Feb. 14; Sp. p. 1920; Gaz. vol. 163; p. 330.
Sheep-hook. J. A. Ross. No. 992,906; May 23; Sp. p. 4456; Gaz. vol. 166; p. 817.
Sheep-shears. W. S. Bechtol. No. 999,145; July 25; Sp. p. 5549; Gaz. vol. 168; p. 986.
Sheet-controlled instruments, Tracker device for. P. B. Klugh. No. 1,007,210; Oct. 31; Sp. p. 5872; Gaz. vol. 171; p. 1072.
Sheet-controlling device. G. F. Read. No. 998,986; July 25; Sp. p. 5247; Gaz. vol. 168; p. 935.
Sheet-conveying machines, Slow-down mechanism for. T. C. Dexter. No. 985,014; Feb. 21; Sp. p. 3765; Gaz. vol. 163; p. 664.
Sheet-cutter. G. Potstada. No. 982,743; Jan. 24; Sp. p. 5622; Gaz. vol. 162; p. 965.
Sheet, Decorative. J. F. Gasthoff. No. 1,003,895; Sept. 19; Sp. p. 3692; Gaz. vol. 170; p. 657.
Sheet-delivering mechanism. A. Collis. No. 997,041; July 4; Sp. p. 958; Gaz. vol. 168; p. 153.

Sheet-delivery mechanism. B. F. Upham. No. 992,826; May 23; Sp. p. 4267; Gaz. vol. 166; p. 788.
Sheet-delivery mechanism. M. A. Droitcour. No. 1,009,491; Nov. 21; Sp. p. 4177; Gaz. vol. 172; p. 720.
Sheet-delivery mechanism, Variable-size-flat-. H. M. Barber. No. 994,366; June 6; Sp. p. 551; Gaz. vol. 167; p. 94.
Sheet-dividing apparatus. B. F. Upham. No. 995,582; June 20; Sp. p. 3249; Gaz. vol. 167; p. 574.
Sheet-fastener. G. L. Edgerton. No. 987,349; Mar. 21; Sp. p. 3359; Gaz. vol. 164; p. 603.
Sheet feeding and folding mechanism. H. M. Barber. No. 989,891; Apr. 18; Sp. p. 3419; Gaz. vol. 165; p. 597.
Sheet feeding and folding mechanism, Combined cover and center-page insert. H. M. Barber. No. 992,474; May 16; Sp. p. 3545; Gaz. vol. 166; p. 636.
Sheet-feeding apparatus. A. Kramer. No. 985,607; Feb. 28; Sp. p. 5112; Gaz. vol. 163; p. 903.
Sheet-feeding apparatus. F. W. Vickery. No. 997,026; July 4; Sp. p. 928; Gaz. vol. 168; p. 147.
Sheet-feeding machine. F. L. Cross. No. 982,256; Jan. 24; Sp. p. 4602; Gaz. vol. 162; p. 799.
Sheet-feeding machine. H. C. La Batt. No. 1,003,473; Sept. 19; Sp. p. 2799; Gaz. vol. 170; p. 513.
Sheet-feeding machines, Stop-register for. H. C. La Batt. No. 986,726; Mar. 14; Sp. p. 2053; Gaz. vol. 164; p. 360.
Sheet-feeding mechanism. M. H. Piper. No. 994,193; June 6; Sp. p. 192; Gaz. vol. 167; p. 33.
Sheet-holder. J. Pohoralek. No. 999,862; Aug. 8; Sp. p. 1330; Gaz. vol. 169; p. 256.
Sheet holder, Sample-. J. P. Tirrill. No. 984,867; Feb. 21; Sp. p. 3487; Gaz. vol. 163; p. 616.
Sheet-jogger. E. W. Korff. No. 1,008,651; Nov. 14; Sp. p. 2330; Gaz. vol. 172; p. 393.
Sheet material, Device for cutting and ornamenting. T. Lund. No. 1,003,480; Sept. 19; Sp. p. 2814; Gaz. vol. 170; p. 515.
Sheet-metal article, Hollow. J. L. Fusner. No. 993,049; May 23; Sp. p. 4768; Gaz. vol. 166; p. 867.
Sheet-metal box. M. Kamenstein. No. 1,000,179; Aug. 8; Sp. p. 2052; Gaz. vol. 169; p. 365.
Sheet-metal box. G. Klenk. No. 1,010,772; Dec. 5; Sp. p. 842; Gaz. vol. 173; p. 131.
Sheet-metal box, Slip-cover. F. Eberhart. No. 984,548; Feb. 21; Sp. p. 2826; Gaz. vol. 163; p. 504.
Sheet-metal brace for corner structures. F. A. Price. No. 1,003,508; Sept. 19; Sp. p. 2873; Gaz. vol. 170; p. 524.
Sheet-metal brace or bracket. W. S. Shields. No. 994,342; June 6; Sp. p. 492; Gaz. vol. 167; p. 85.
Sheet-metal can. B. C. Egerton. No. 1,000,727; Aug. 15; Sp. p. 3260; Gaz. vol. 169; p. 589.
Sheet-metal can. F. Westerbeck. No. 1,002,546; Sept. 5; Sp. p. 817; Gaz. vol. 170; p. 120.
Sheet-metal can. W. A. Sexton. No. 1,009,443; Nov. 21; Sp. p. 4083; Gaz. vol. 172; p. 704.
Sheet-metal caps, Machine for threading. E. R. Douglas. No. 1,010,740; Dec. 5; Sp. p. 760; Gaz. vol. 173; p. 119.
Sheet-metal construction. C. M. Jones. No. 988,574; Apr. 4; Sp. p. 609; Gaz. vol. 165; p. 98.
Sheet-metal construction. A. K. Pruden. No. 1,008,491; Nov. 14; Sp. p. 1960; Gaz. vol. 172; p. 335.
Sheet-metal elbows, Mechanism for forming. A. Dieckmann. No. 1,010,733; Dec. 5; Sp. p. 739; Gaz. vol. 173; p. 117.
Sheet-metal-expanding machine. L. E. Curtis. No. 1,011,588; Dec. 12; Sp. p. 2708; Gaz. vol. 173; p. 454.
Sheet-metal-expanding-machine feed device. L. E. Curtis. No. 1,011,589; Dec. 12; Sp. p. 2710; Gaz. vol. 173; p. 454.
Sheet-metal frame. W. P. Lawrence. No. 988,360; Apr. 4; Sp. p. 145; Gaz. vol. 165; p. 25.
Sheet metal in cutting, Means for gaging. W. S. Reynolds. No. 1,003,373; Sept. 12; Sp. p. 2587; Gaz. vol. 170; p. 445.
Sheet-metal plates, Machine for joining or seaming. F. E. Adams. No. 995,649; June 20; Sp. p. 3401; Gaz. vol. 167; p. 599.
Sheet-metal roller. O. Roeseke. No. 990,503; Apr. 25; Sp. p. 4825; Gaz. vol. 165; p. 841.
Sheet-metal-separating machine. A. Kent. No. 995,018; June 13; Sp. p. 2029; Gaz. vol. 167; p. 355.
Sheet-metal stopper for bottles, jars, &c. A. L. Weissenthanner. No. 983,332; Feb. 7; Sp. p. 164; Gaz. vol. 163; p. 29.
Sheet-metal structure. C. E. Nellis. No. 1,009,089; Nov. 21; Sp. p. 3260; Gaz. vol. 172; p. 577.
Sheet metal, Treating. G. Russell. No. 1,006,881; Oct. 24; Sp. p. 5134; Gaz. vol. 171; p. 904.
Sheet-metal-tubing segment. E. F. Borries. No. 987,693; Mar. 28; Sp. p. 4083; Gaz. vol. 164; p. 749.
Sheet-metal vessel. A. R. Pritchard. No. 1,012,276; Dec. 19; Sp. p. 4229; Gaz. vol. 173; p. 725.
Sheet-propelling mechanisms, Tension device for. J. C. Hagey. No. 988,333; Apr. 4; Sp. p. 91; Gaz. vol. 165; p. 16.
Sheet-registering apparatus. W. J. Main. No. 985,425; Feb. 28; Sp. p. 4701; Gaz. vol. 163; p. 838.
Sheet-separating device. J. W. Duffy. No. 1,009,289; Nov. 21; Sp. p. 3722; Gaz. vol. 172; p. 648.
Sheet-separating means. B. Gustafson. No. 990,256; Apr. 25; Sp. p. 4222; Gaz. vol. 165; p. 753.
Sheets, plates, &c., Manufacture of. C. J. Mesta and S. E. Diescher. No. 1,010,510; Dec. 5; Sp. p. 254; Gaz. vol. 173; p. 40.
Shelf attachment, Tent. W. C. Brown. No. 985,002; Feb. 21; Sp. p. 3735; Gaz. vol. 163; p. 660.
Shelf-drier. O. S. Sleeper. No. 999,063; July 25; Sp. p. 5404; Gaz. vol. 168; p. 962.
Shelf-frame with vertically-adjustable shelves. R. Schuftan. No. 984,857; Feb. 21; Sp. p. 3465; Gaz. vol. 163; p. 612.
Shelf-support. C. J. Caspar. No. 993,753; May 30; Sp. p. 6302; Gaz. vol. 166; p. 1136.
Shelf-supporting bracket. A. B. and G. G. Houghton. No. 999,226; Aug. 1; Sp. p. 68; Gaz. vol. 169; p. 14.
Shelving. J. F. Masters. No. 983,075; Jan. 31; Sp. p. 6373; Gaz. vol. 162; p. 1108.
Shelving. H. W. Comstock. No. 1,011,161; Dec. 12; Sp. p. 1710; Gaz. vol. 173; p. 300.
Shelving and display-cabinet, Rotary. M. F. Hawkins and J. C. Berry. No. 996,852; July 4; Sp. p. 519; Gaz. vol. 168; p. 85.
Shelving and display-rack. J. Lund. No. 1,013,032; Dec. 26; Sp. p. 5875; Gaz. vol. 173; p. 1027.
Shelving, Display-. W. C. McFadden. No. 1,009,679; Nov. 21; Sp. p. 4529; Gaz. vol. 172; p. 780.
Shelving, Knockdown. H. A. McFarlane. No. 1,002,859; Sept. 12; Sp. p. 1503; Gaz. vol. 170; p. 266.
Shelving, Metal. A. T. Hansen. No. 994,674; June 6; Sp. p. 1211; Gaz. vol. 167; p. 197.
Shelving, Metallic. E. Stuck. No. 985,222; Feb. 28; Sp. p. 4260; Gaz. vol. 163; p. 771.
Shelving, Metallic. O. D. Collis. No. 1,004,996; Oct. 5; Sp. p. 940; Gaz. vol. 171; p. 156.
Shelving, Sectional. A. A. Oestreicher. No. 984,593; Feb. 21; Sp. p. 2919; Gaz. vol. 163; p. 519.
Shell, Loaded shot-. N. P. Leach. No. 997,566; July 11; Sp. p. 2005; Gaz. vol. 168; p. 358.
Shell or projectile. W. L. Murphy. No. 987,590; Mar. 21; Sp. p. 3846; Gaz. vol. 164; p. 685.
Shells, Apparatus for feeding. R. H. Standish. No. 986,777; Mar. 14; Sp. p. 2160; Gaz. vol. 164; p. 377.
Shells to the shuttle, Feeding. F. R. Hammitt and C. B. Stanley. No. 989,778; Apr. 18; Sp. p. 3184; Gaz. vol. 165; p. 559.
Sheller: *See* Corn-sheller.
Shield. F. R. Hertford. No. 982,492; Jan. 24; Sp. p. 5120; Gaz. vol. 162; p. 883.
Shield. W. Ristau. No. 999,592; Aug. 1; Sp. p. 786; Gaz. vol. 169; p. 136.
Shield for icemen and others. C. G. Sagerstrom. No. 1,000,297; Aug. 8; Sp. p. 2293; Gaz. vol. 169; p. 406.
Shifting mechanism. A. H. Vik. No. 982,399; Jan. 24; Sp. p. 4912; Gaz. vol. 162; p. 850.
Shifting seat. R. L. Notman. No. 1,003,148; Sept. 12; Sp. p. 2115; Gaz. vol. 170; p. 364.
Shingle-cutting machine. C. Warwick. No. 984,624; Feb. 21; Sp. p. 2992; Gaz. vol. 163; p. 530.
Shingle-drying machine. C. Warwick. No. 984,623; Feb. 21; Sp. p. 2990; Gaz. vol. 163; p. 530.
Shingle, Flat-lock tin. J. T. and O. G. Burriss. No. 1,011,153; Dec. 12; Sp. p. 1691; Gaz. vol. 173; p. 298.
Shingle, Metallic. J. P. Todd. No. 993,281; May 23; Sp. p. 5237; Gaz. vol. 166; p. 939.
Shingle, Metallic. C. Dolph. No. 996,750; July 4; Sp. p. 298; Gaz. vol. 168; p. 52.
Shingle, Molded. N. A. Austin. No. 1,004,338; Sept. 26; Sp. p. 4733; Gaz. vol. 170; p. 837.
Shingle-press. E. B. Crowley and E. J. Grant. No. 997,649; July 11; Sp. p. 2199; Gaz. vol. 168; p. 389.
Shingle-sawing machine. R. H. Richards. No. 999,260; Aug. 1; Sp. p. 133; Gaz. vol. 169; p. 25.
Shingle-sawing machine. L. S. Todd. No. 1,000,210; Aug. 8; Sp. p. 2118; Gaz. vol. 169; p. 377.
Shingle-sawing machine. T. M. Matthews. No. 1,005,989; Oct. 17; Sp. p. 3116; Gaz. vol. 171; p. 560.
Shingling-gage. C. W. Field. No. 986,625; Mar. 14; Sp. p. 1838; Gaz. vol. 164; p. 326.
Ship. N. Soliani. No. 999,410; Aug. 1; Sp. p. 427; Gaz. vol. 169; p. 76.
Ship, Aerial turbine-. A. McLean. No. 1,009,915; Nov. 28; Sp. p. 5021; Gaz. vol. 172; p. 906.
Ship-cleaner. W. Gottlieb. No. 1,008,136; Nov. 7; Sp. p. 1045; Gaz. vol. 172; p. 170.
Ship-cleaner, Electrolytic. G. W. Frazier. No. 981,922; Jan. 17; Sp. p. 3908; Gaz. vol. 162; p. 656.
Ship-cleaning device. C. F. Holland. No. 991,308; May 2; Sp. p. 1042; Gaz. vol. 166; p. 173.
Ship construction. J. Reid. No. 986,861; Mar. 14; Sp. p. 2344; Gaz. vol. 164; p. 406.
Ship-log apparatus, Electrical. T. F. and T. S. Walker. No. 1,008,225; Nov. 7; Sp. p. 1248; Gaz. vol. 172; p. 204.
Ship manipulating and turning apparatus. F. M. Morten. No. 983,078; Jan. 31; Sp. p. 6379; Gaz. vol. 162; p. 1109.
Ship or vessel. G. E. Elia. No. 1,000,903; Aug. 15; Sp. p. 3625; Gaz. vol. 169; p. 651.
Ship or vessel. G. E. Elia. No. 1,008,801; Nov. 14; Sp. p. 2651; Gaz. vol. 172; p. 444.
Ship or vessel. G. E. Elia. No. 1,008,802; Nov. 14; Sp. p. 2652; Gaz. vol. 172; p. 445.

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Ships at sea, Apparatus for coaling. J. H. Michener, Jr. No. 984,692; Feb. 21; Sp. p. 3131; Gaz. vol. 163; p. 554.
Ship's body. A von Keissler. No. 1,010,376; Nov. 28; Sp. p. 5973; Gaz. vol. 172; p. 1061.
Ships' bottoms from barnacles or aquatic life, &c., Electrical arrangement for protecting. J. E. James. No. 994,405; June 6; Sp. p. 633; Gaz. vol. 167; p. 108.
Ships, Construction of. A. C. Caines. No. 1,008,008; Nov. 7; Sp. p. 787; Gaz. vol. 172; p. 124.
Ship's deviations from its course, Means for indicating a. W. H. Hennah and A. K. W. Rissel. No. 994,677; June 6; Sp. p. 1218; Gaz. vol. 167; p. 198.
Ship's deviations from its course, Means for recording and gaging a. W. H. Hennah and A. K. W. Rissel. No. 994,678; June 6; Sp. p. 1220; Gaz. vol. 167; p. 199.
Ships' doors, Device for tightly closing and opening from a distance. G. Mazzolini. No. 1,008,978; Nov. 14; Sp. p. 3007; Gaz. vol. 172; p. 501.
Ships' launches, Means for carrying. C. L. Couvrette. No. 1,013,087; Dec. 26; Sp. p. 5987; Gaz. vol. 173; p. 1047.
Ships, Means for damping the rolling motion of. H. Frahm. No. 1,007,348; Oct. 31; Sp. p. 6147; Gaz. vol. 171; p. 1121.
Shipboard, Self-leveling cot, bunk, couch, &c., for use on. A. L. Wertheim. No. 986,108; Mar. 7; Sp. p. 746; Gaz. vol. 164; p. 120.
Shipping-box, Collapsible. A. Sommerfeld. No. 980,570; Jan. 3; Sp. p. 859; Gaz. vol. 162; p. 138.
Shipping-box, Collapsible. H. S. Wright. No. 1,003,166; Sept. 12; Sp. p. 2158; Gaz. vol. 170; p. 371.
Shipping box or case. S. D. Bedell. No. 1,011,724; Dec. 12; Sp. p. 2993; Gaz. vol. 173; p. 499.
Shipping-case. C. S. Weatherby. No. 1,001,717; Aug. 29; Sp. p. 5375; Gaz. vol. 169; p. 962.
Shipping-case, Collapsible. W. R. Bailey. No. 1,010,841; Dec. 5; Sp. p. 984; Gaz. vol. 173; p. 154.
Shipping-case, Folding. M. P. Connolly, W. H. Fischer, and C. O. Papke. No. 1,011,584; Dec. 12; Sp. p. 2700; Gaz. vol. 173; p. 452.
Shipping-case, Reinforced. J. O. Noble. No. 988,020; Mar. 28; Sp. p. 4848; Gaz. vol. 164; p. 862.
Shirt. F. G. Baugatz. No. 1,002,117; Aug. 29; Sp. p. 6218; Gaz. vol. 169; p. 1124.
Shirt and detachable cuff therefor. F. A. Holst. No. 1,007,570; Oct. 31; Sp. p. 6640; Gaz. vol. 171; p. 1197.
Shirt-holder. A. Flockey and A. E. Ostman. No. 992,179; May 16; Sp. p. 2861; Gaz. vol. 166; p. 533.
Shirt-waist. P. B. Reed. No. 1,008,493; Nov. 14; Sp. p. 1962; Gaz. vol. 172; p. 336.
Shock-absorber. W. B. Knapp. No. 982,008; Jan. 17; Sp. p. 4113; Gaz. vol. 162; p. 686.
Shock-absorber. E. C. Wilcox and C. Cuno. No. 982,914; Jan. 31; Sp. p. 6016; Gaz. vol. 162; p. 1053.
Shock-absorber. D. F. Kilgour. No. 984,377; Feb. 14; Sp. p. 2432; Gaz. vol. 163; p. 411.
Shock-absorber. E. F. Ciglia and L. F. Pelletier. No. 986,622; Mar. 14; Sp. p. 1832; Gaz. vol. 164; p. 325.
Shock-absorber. C. M. Burton. No. 986,904; Mar. 14; Sp. p. 2441; Gaz. vol. 164; p. 421.
Shock-absorber. J. M. Jackson. No. 986,921; Mar. 14; Sp. p. 2470; Gaz. vol. 164; p. 427.
Shock-absorber. F. A. Lynch. No. 987,731; Mar. 28; Sp. p. 4174; Gaz. vol. 164; p. 762.
Shock-absorber. P. M. Freer. No. 987,977; Mar. 28; Sp. p. 4756; Gaz. vol. 164; p. 848.
Shock-absorber. T. O. Huston. No. 988,782; Apr. 4; Sp. p. 1057; Gaz. vol. 165; p. 169.
Shock-absorber. L. A. Peckham. No. 989,408; Apr. 11; Sp. p. 2365; Gaz. vol. 165; p. 399.
Shock-absorber. J. Lend. No. 990,756; Apr. 25; Sp. p. 5367; Gaz. vol. 165; p. 926.
Shock-absorber. M. Tibbetts. No. 992,457; May 16; Sp. p. 3493; Gaz. vol. 166; p. 629.
Shock-absorber. G. C. Martin. No. 993,536; May 30; Sp. p. 5806; Gaz. vol. 166; p. 1060.
Shock-absorber. A. L. Mitchell. No. 994,024; May 30; Sp. p. 6837; Gaz. vol. 166; p. 1227.
Shock-absorber. H. J. Jorgensen. No. 995,874; June 20; Sp. p. 3900; Gaz. vol. 167; p. 677.
Shock-absorber. T. G. Cushman. No. 996,220; June 27; Sp. p. 4654; Gaz. vol. 167; p. 831.
Shock-absorber. L. Chanudet and G. P. Ribis. No. 997,370; July 11; Sp. p. 1627; Gaz. vol. 168; p. 295.
Shock-absorber. G. C. Murray. No. 999,243; Aug. 1; Sp. p. 100; Gaz. vol. 169; p. 19.
Shock-absorber. F. Nielsen. No. 999,843; Aug. 8; Sp. p. 1278; Gaz. vol. 169; p. 249.
Shock-absorber. E. Rector. No. 999,871; Aug. 8; Sp. p. 1344; Gaz. vol. 169; p. 259.
Shock-absorber. W. N. Border and S. P. Love. No. 1,001,343; Aug. 22; Sp. p. 4620; Gaz. vol. 169; p. 835.
Shock-absorber. J. T. Costello. No. 1,002,040; Aug. 29; Sp. p. 6085; Gaz. vol. 169; p. 1099.
Shock-absorber. C. D. Sword. No. 1,002,470; Sept. 5; Sp. p. 657; Gaz. vol. 170; p. 95.
Shock-absorber. G. F. Kern. No. 1,006,225; Oct. 17; Sp. p. 3656; Gaz. vol. 171; p. 643.
Shock-absorber. G. L. Robertson. No. 1,006,283; Oct. 17; Sp. p. 3796; Gaz. vol. 171; p. 665.
Shock-absorber. W. A. Schiller. No. 1,006,686; Oct. 24; Sp. p. 4689; Gaz. vol. 171; p. 835.
Shock-absorber. E. Prouty. No. 1,006,789; Oct. 24; Sp. p. 4919; Gaz. vol. 171; p. 871.
Shock-absorber. H. C. Turner. No. 1,009,454; Nov. 21; Sp. p. 4103; Gaz. vol. 172; p. 707.
Shock-absorber. T. G. Cushman. No. 1,012,127; Dec. 19; Sp. p. 3904; Gaz. vol. 173; p. 675.
Shock-absorber. H. De Rosier. No. 1,012,824; Dec. 26; Sp. p. 5397; Gaz. vol. 173; p. 958.
Shock-absorber, Graduated. E. V. Hartford. No. 1,000,264; Aug. 8; Sp. p. 2216; Gaz. vol. 169; p. 394.
Shock-absorber, Pneumatic. G. Taraglio. No. 998,997; July 25; Sp. p. 5269; Gaz. vol. 168; p. 938.
Shock-absorbing coupling. D. F. Sneeringer. No. 1,008,379; Nov. 14; Sp. p. 1664; Gaz vol. 172; p. 296.
Shock-absorbing device. L. A. Peckham. No. 986,082; Mar. 7; Sp. p. 697; Gaz. vol. 164; p. 111.
Shock-absorbing device. L. A. Peckham. No. 989,407; Apr. 11; Sp. p. 2362; Gaz. vol. 165; p. 399.
Shock-absorbing device. E. Rimailho. No. 990,293; Apr. 25; Sp. p. 4296; Gaz. vol. 165; p. 766.
Shock-absorbing device. L. A. Peckham. No. 1,009,337; Nov. 21; Sp. p. 3820; Gaz. vol. 172; p. 666.
Shock-absorbing foot, Adjustable. W. Metzroth. No. 997,842; July 11; Sp. p. 2658; Gaz. vol. 168; p. 456.
Shock-absorbing mechanism. A. J. P. Bertschy. No. 1,011,560; Dec. 12; Sp. p. 2617; Gaz. vol. 173; p. 442.
Shock-binder. F. Owen. No. 1,009,992; Nov. 28; Sp. p. 5186; Gaz. vol. 172; p. 932.
Shock gatherer and loader. O. Johnson. No. 986,717; Mar. 14; Sp. p. 2034; Gaz. vol. 164; p. 357.
Shock-handling apparatus. N. W. Lyon. No. 992,892; May 23; Sp. p. 4423; Gaz. vol. 166; p. 811.
Shock-loader. G. Vollers. No. 985,645; Feb. 28; Sp. p. 5178; Gaz. vol. 163; p. 915.
Shock-loader. M. and R. Block. No. 988,433; Apr. 4; Sp. p. 306; Gaz. vol. 165; p. 50.
Shock-loader. B. J. Young. No. 1,007,408; Oct. 31; Sp. p. 6276; Gaz. vol. 171; p. 1142.
Shock-loader. G. H. Tarvin. No. 1,008,217; Nov. 7; Sp. p. 1229; Gaz. vol. 172; p. 200.
Shock-loader. N. P. Albertson and H. O. Iverson. No. 1,009,821; Nov. 28; Sp. p. 4847; Gaz. vol. 172; p. 876.
Shock loader and unloader. J. B. Schuman. No. 983,774; Feb. 7; Sp. p. 1103; Gaz. vol. 163; p. 177.
Shock-loader, Automatic. A. Hillstrom. No. 992,665; May 16; Sp. p. 3930; Gaz. vol. 166; p. 701.
Shock loader, Grain-. J. P. Hamann. No. 986,167; Mar. 7; Sp. p. 852; Gaz. vol. 164; p. 138.
Shock-making machine. G. Marshall. No. 1,000,533; Aug. 15; Sp. p. 2814; Gaz. vol. 169; p. 519.
Shock-reducer. R. L. Herman and L. L. Loeb. No. 998,771; July 25; Sp. p. 4756; Gaz. vol. 168; p. 859.
Shock-tying device. J. O. Durer. No. 1,004,756; Oct. 3; Sp. p. 449; Gaz. vol. 171; p. 75.
Shocking device, Hand. H. Ferris. No. 983,038; Jan. 31; Sp. p. 6300; Gaz. vol. 162; p. 1095.
Shocking-machine. W. P. Spooner. No. 982,447; Jan. 24; Sp. p. 5028; Gaz. vol. 162; p. 869.
Shocking-machine. W. I. Cubbage. No. 986,803; Mar. 14; Sp. p. 2219; Gaz. vol. 164; p. 385.
Shocking-machine. J. McLeod. No. 995,885; June 20; Sp. p. 3919; Gaz. vol. 167; p. 681.
Shocking-machine. L. J. Clement. No. 1,004,370; Sept. 26; Sp. p. 4802; Gaz. vol. 170; p. 848.
Shocking-machine. W. F. Thorne and J. R. I. Hopkins. No. 1,010,464; Dec. 5; Sp. p. 129; Gaz. vol. 173; p. 24.
Shocking-machine attachment. W. F. Thorne and J. R. I. Hopkins. No. 999,911; Aug. 8; Sp. p. 1439; Gaz. vol. 169; p. 274.
Shocking-tool. C. M. Green. No. 984,761; Feb. 21; Sp. p. 3288; Gaz. vol. 163; p. 579.
Shoe. P. Skorge. No. 983,518; Feb. 7; Sp. p. 557; Gaz. vol. 163; p. 89.
Shoe. P. C. Niemann. No. 987,815; Mar. 28; Sp. p. 4341; Gaz. vol. 164; p. 791.
Shoe. G. P. Mitchell. No. 988,011; Mar. 28; Sp. p. 4821; Gaz. vol. 164; p. 859.
Shoe. W. A. Turner. No. 989,084; Apr. 11; Sp. p. 1674; Gaz. vol. 165; p. 291.
Shoe. J. F. Davis. No. 989,950; Apr. 18; Sp. p. 3566; Gaz. vol. 165; p. 618.
Shoe. A. Zehl. No. 990,942; May 2; Sp. p. 247; Gaz. vol. 166; p. 43.
Shoe. W. Spiegelman. No. 991,036; May 2; Sp. p. 435; Gaz. vol. 166; p. 75.
Shoe. E. A. Dahlhaus. No. 991,833; May 9; Sp. p. 2158; Gaz. vol. 166; p. 384.
Shoe. E. B. Loewenbach. No. 992,221; May 16; Sp. p. 2940; Gaz. vol. 166; p. 547.
Shoe. F. Beebe. No. 993,496; May 30; Sp. p. 5728; Gaz. vol. 166; p. 1046.
Shoe. M. Liberman. No. 994,849; June 13; Sp. p. 1660; Gaz. vol. 167; p. 298.
Shoe. E. Brothers. No. 996,057; June 27; Sp. p. 4273; Gaz. vol. 167; p. 776.
Shoe. P. H. Doherty. No. 998,604; July 25; Sp. p. 4364; Gaz. vol. 168; p. 799.
Shoe. J. Frank. No. 1,007,084; Oct. 31; Sp. p. 5575; Gaz. vol. 171; p. 1025.

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Shoe. R. C. Ross. No. 1,009,859; Nov. 28; Sp. p. 4922; Gaz. vol. 172; p. 889.
Shoe. O. Stern. No. 1,010,002; Nov. 28; Sp. p. 5213; Gaz. vol. 172; p. 935.
Shoe. W. E. Hemenover. No. 1,012,636; Dec. 26; Sp. p. 4966; Gaz. vol. 173; p. 893.
Shoe antislipping device. A. E. Baker. No. 1,008,773; Nov. 14; Sp. p. 2593; Gaz. vol. 172; p. 435.
Shoe-assembling apparatus. E. Bayard. No. 1,007,053; Oct. 31; Sp. p. 5491; Gaz. vol. 171; p. 1015.
Shoe attachment. B. Gilowitz. No. 997,055; July 4; Sp. p. 984; Gaz. vol. 168; p. 157.
Shoe-beater. O. Ashton. No. 1,009,713; Nov. 28; Sp. p. 4619; Gaz. vol. 172; p. 839.
Shoe-beating machine. O. Ashton. No. 1,008,298; Nov. 14; Sp. p. 1431; Gaz. vol. 172; p. 267.
Shoe-beating machine, Rotary. G. S. Covell. No. 1,003,434; Sept. 19; Sp. p. 2718; Gaz. vol. 170; p. 499.
Shoe-bottom protector. J. Buckley. No. 991,046; May 2; Sp. p. 454; Gaz. vol. 166; p. 78.
Shoe-calk. C. W. Kaighin. No. 985,908; Mar. 7; Sp. p. 323; Gaz. vol. 164; p. 52.
Shoe-cleaning device. P. E. Aronis. No. 984,640; Feb. 21; Sp. p. 3026; Gaz. vol. 163; p. 536.
Shoe-closure. A. W. De Haven. No. 996,468; June 27; Sp. p. 5221; Gaz. vol. 167; p. 915.
Shoe, Combination-. J. D. Moore. No. 999,835; Aug. 8; Sp. p. 1261; Gaz. vol. 169; p. 246.
Shoe, Combined lace and button. J. D. Price. No. 988,812; Apr. 4; Sp. p. 1117; Gaz. vol. 165; p. 178.
Shoe, Corset-. G. Krieger. No. 990,567; Apr. 25; Sp. p. 4945; Gaz. vol. 165; p. 863.
Shoe-counter protector. H. I. Elson. No. 996,914; July 4; Sp. p. 655; Gaz. vol. 168; p. 107.
Shoe-counters, Treating. S. A. Eddins. No. 1,007,078; Oct. 31; Sp. p. 5560; Gaz. vol. 171; p. 1023.
Shoe-crimper. W. P. Speer. No. 985,467; Feb. 28; Sp. p. 4811; Gaz. vol. 163; p. 855.
Shoe-cutting tools, Awl attachment for. F. G. Pavelec. No. 991,638; May 9; Sp. p. 1745; Gaz. vol. 166; p. 320.
Shoe-dresser knife. P. J. O'Brien. No. 992,439; May 16; Sp. p. 3464; Gaz. vol. 166; p. 623.
Shoe-fastener. E. C. Rosencranz. No. 982,746; Jan. 24; Sp. p. 5635; Gaz. vol. 162; p. 966.
Shoe-fastener. H. C. Johnson. No. 986,988; Mar. 14; Sp. p. 2591; Gaz. vol. 164; p. 448.
Shoe-fastener. L. H. Heath. No. 991,443; May 2; Sp. p. 1307; Gaz. vol. 166; p. 218.
Shoe-fastener. J. H. Mumaw. No. 994,187; June 6; Sp. p. 178; Gaz. vol. 167; p. 31.
Shoe-fastener. J. M. Dahlgren. No. 998,471; July 18; Sp. p. 4069; Gaz. vol. 168; p. 721.
Shoe-filling machine. A. Perri. No. 1,004,070; Sept. 26; Sp. p. 4158; Gaz. vol. 170; p. 746.
Shoe-finishing apparatus. A. Bates. No. 1,011,904; Dec. 19; Sp. p. 3394; Gaz. vol. 173; p. 595.
Shoe-finishing machine. S. J. Wentworth. No. 1,010,550; Dec. 5; Sp. p. 322; Gaz. vol. 173; p. 52.
Shoe-finishing machine. J. F. Manning and A. A. Denslinger. No. 1,011,461; Dec. 12; Sp. p. 2379; Gaz. vol. 173; p. 406.
Shoe-finishing machines, Dust-catcher for. T. Wertz and C. H. L. Kistner. No. 990,086; Apr. 18; Sp. p. 3830; Gaz. vol. 165; p. 663.
Shoe, Flexible. J. W. Smith. No. 1,012,733; Dec. 26; Sp. p. 5174; Gaz. vol. 173; p. 927.
Shoe fly-holder. A. Hyltone. No. 1,002,272; Sept. 5; Sp. p. 191; Gaz. vol. 170; p. 25.
Shoe for flat-footed persons. P. Lengemann. No. 996,989; July 4; Sp. p. 834; Gaz. vol. 168; p. 134.
Shoe-form. W. S. Lougee. No. 984,770; Feb. 21; Sp. p. 3310; Gaz. vol. 163; p. 583.
Shoe-form. M. B. Reach. No. 985,550; Feb. 28; Sp. p. 4996; Gaz. vol. 163; p. 884.
Shoe-form. W. C. Richardson. No. 1,002,316; Sept. 5; Sp. p. 299; Gaz. vol. 170; p. 42.
Shoe-form. F. Brupbacher and F. P. Volmer. No. 1,011,570; Dec. 12; Sp. p. 2658; Gaz. vol. 173; p. 446.
Shoe-form, Hollow. L. M. Carroll. No. 985,393; Feb. 28; Sp. p. 4616; Gaz. vol. 163; p. 828.
Shoe-holder. C. J. Dexter. No. 996,066; June 27; Sp. p. 4293; Gaz. vol. 167; p. 779.
Shoe-horn. C. E. A. Merrow. No. 990,283; Apr. 25; Sp. p. 4274; Gaz. vol. 165; p. 762.
Shoe-ironing apparatus. G. S. Covell. No. 1,007,270; Oct. 31; Sp. p. 5990; Gaz. vol. 171; p. 1093.
Shoe-machine. J. J. Richardson. No. 988,211; Mar. 28; Sp. p. 5211; Gaz. vol. 164; p. 924.
Shoe-machinery feeding mechanism. W. O. Wheeler. No. 1,008,575; Nov. 14; Sp. p. 2150; Gaz. vol. 172; p. 367.
Shoe manufacture, Beading-machine for. T. Quinn. No. 991,368; May 2; Sp. p. 1159; Gaz. vol. 166; p. 193.
Shoe-nailing machine, Automatic. L. E. Johnson. No. 994,408; June 6; Sp. p. 641; Gaz. vol. 167; p. 109.
Shoe-nailing-machine feeding device. J. Crowe. No. 994,981; June 13; Sp. p. 1955; Gaz. vol. 167; p. 342.
Shoe, Non-slipping. H. R. Wiseman. No. 988,527; Apr. 4; Sp. p. 506; Gaz. vol. 165; p. 81.
Shoe or boot tread. J. H. Brown. No. 1,011,110; Dec. 5; Sp. p. 1564; Gaz. vol. 173; p. 247.
Shoe or boot ventilating device. T. Roberts. No. 991,457; May 2; Sp. p. 1346; Gaz. vol. 166; p. 223.
Shoe or edge wetter, Automatic. A. West and C. C. Jackman. No. 995,507; June 20; Sp. p. 3071; Gaz. vol. 167; p. 548.
Shoe or glove fastening. A. McCombie. No. 1,012,399; Dec. 19; Sp. p. 4469; Gaz. vol. 173; p. 766.
Shoe ornament. J. R. A. Hagemans. No. 997,057; July 4; Sp. p. 988; Gaz. vol. 168; p. 158.
Shoe-pattern. J. Beauchamp. No. 988,541; Apr. 4; Sp. p. 536; Gaz. vol. 165; p. 86.
Shoe-plate. E. R. Heusser. No. 993,682; May 30; Sp. p. 6147; Gaz. vol. 166; p. 1112.
Shoe-polisher. G. Metzger. No. 982,287; Jan. 24; Sp. p. 4691; Gaz. vol. 162; p. 811.
Shoe-polishing machine. E. F. Hecker. No. 983,138; Jan. 31; Sp. p. 6482; Gaz. vol. 162; p. 1127.
Shoe-polishing machine. J. N. Wood. No. 987,936; Mar. 28; Sp. p. 4648; Gaz. vol. 164; p. 833.
Shoe-polishing machine. W. R. Campbell. No. 997,113; July 4; Sp. p. 1087; Gaz. vol. 168; p. 176.
Shoe-protecting device. F. X. Maher. No. 994,593; June 6; Sp. p. 1017; Gaz. vol. 167; p. 170.
Shoe-rack. E. J. Prime. No. 1,006,127; Oct. 17; Sp. p. 3420; Gaz. vol. 171; p. 607.
Shoe-repairing implement. S. Foglesong. No. 983,431; Feb. 7; Sp. p. 368; Gaz. vol. 163; p. 61.
Shoe, Roofer's. H. E. Eves. No. 987,054; Mar. 14; Sp. p. 2713; Gaz. vol. 164; p. 469.
Shoe, Rubber-sole. H. O'Sullivan. No. 981,106; Jan. 10; Sp. p. 2127; Gaz. vol. 162; p. 351.
Shoe-scraping device. J. C. Oliva. No. 988,207; Mar. 28; Sp. p. 5206; Gaz. vol. 164; p. 923.
Shoe-shaping device. E. C. Hawkins. No. 990,866; May 2; Sp. p. 91; Gaz. vol. 166; p. 17.
Shoe-shine protector. R. B. Luther. No. 1,001,540; Aug. 22; Sp. p. 4980; Gaz. vol. 169; p. 900.
Shoe-shining device. E. J. Young. No. 1,007,259; Oct. 31; Sp. p. 5969; Gaz. vol. 171; p. 1089.
Shoe, Snow-. J. C. Haefer. No. 982,053; Jan. 17; Sp. p. 4205; Gaz. vol. 162; p. 701.
Shoe, Snow-. A. J. Pease. No. 1,004,900; Oct. 3; Sp. p. 778; Gaz. vol. 171; p. 124.
Shoe, Sporting-. C. L. Drake. No. 997,657; July 11; Sp. p. 2217; Gaz. vol. 168; p. 392.
Shoe, Sporting-. D. J. Golden. No. 1,012,197; Dec. 19; Sp. p. 4062; Gaz. vol. 173; p. 698.
Shoe-stiffeners, Producing. W. B. Arnold. No. 1,000,483; Aug. 15; Sp. p. 2708; Gaz. vol. 169; p. 502.
Shoe-stretcher. C. B. Kosters. No. 982,369; Jan. 24; Sp. p. 4855; Gaz. vol. 162; p. 840.
Shoe-stretcher. P. E. Bassett. No. 999,144; July 25; Sp. p. 5548; Gaz. vol. 168; p. 986.
Shoe-stretcher. E. Peterson. No. 1,010,685; Dec. 5; Sp. p. 623; Gaz. vol. 173; p. 100.
Shoe-support. A. J. Kroll. No. 995,793; June 20; Sp. p. 3725; Gaz. vol. 167; p. 649.
Shoe, Swimming-. C. Vagtborg. No. 982,316; Jan. 24; Sp. p. 4745; Gaz. vol. 162; p. 820.
Shoe, Therapeutic. E. W. Burt. No. 984,506; Feb. 14; Sp. p. 2703; Gaz. vol. 163; p. 453.
Shoe-tree, Collapsible. C. A. Bowron. No. 1,012,978; Dec. 26; Sp. p. 5763; Gaz. vol. 173; p. 1010.
Shoe tree or form. P. A. Bowen. No. 986,680; Mar. 14; Sp. p. 1959; Gaz. vol. 164; p. 345.
Shoe-trimming machine. W. B. Keighley. No. 984,376; Feb. 14; Sp. p. 2430; Gaz. vol. 163; p. 411.
Shoe-upper. G. H. Smith. No. 983,576; Feb. 7; Sp. p. 701; Gaz. vol. 163; p. 109.
Shoe-upper. A. F. Mitchell. No. 1,002,731; Sept. 5; Sp. p. 1236; Gaz. vol. 170; p. 184.
Shoe-upper fastener. W. E. Ellis. No. 988,322; Apr. 4; Sp. p. 59; Gaz. vol. 165; p. 12.
Shoe-upper fastener. W. E. Ellis. No. 999,765; Aug. 8; Sp. p. 1133; Gaz. vol. 169; p. 224.
Shoe-upper-marking machine. F. A. Rumney. No. 989,058; Apr. 11; Sp. p. 1612; Gaz. vol. 165; p. 282.
Shoe-upper-marking machine. J. W. Barna. No. 1,012,052; Dec. 19; Sp. p. 3730; Gaz. vol. 173; p. 648.
Shoe-upper protector. H. A. Trull. No. 997,023; July 4; Sp. p. 922; Gaz. vol. 168; p. 146.
Shoe-uppers by means of wire, Apparatus employed for fastening. R. F. McFeely. No. 1,003,484; Sept. 19; Sp. p. 2821; Gaz. vol. 170; p. 516.
Shoe-uppers, Die for cutting out parts of. L. C. Colt. No. 999,962; Aug. 8; Sp. p. 1542; Gaz. vol. 169; p. 291.
Shoe-uppers, Die for cutting out parts of. J. W. Franklin. No. 999,981; Aug. 8; Sp. p. 1579; Gaz. vol. 169; p. 297.
Shoe-uppers, Means for tying. W. E. Ellis. No. 990,242; Apr. 25; Sp. p. 4198; Gaz. vol. 165; p. 748.
Shoe-ventilating attachment. W. J. Duncan. No. 997,658; July 11; Sp. p. 2218; Gaz. vol. 168; p. 392.
Shoe, Water-. K. Hellmann. No. 986,979; Mar. 14; Sp. p. 2568; Gaz. vol. 164; p. 444.
Shoe, Waterproof. S. H. Yerkes. No. 982,339; Jan. 24; Sp. p. 4784; Gaz. vol. 162; p. 829.
Shoe, Wet-proof. J. A. Kelly. No. 986,576; Mar. 14; Sp. p. 1740; Gaz. vol. 164; p. 308.
Shoes, Apparatus for making. E. Bayard. No. 1,006,457; Oct. 24; Sp. p. 4179; Gaz. vol. 171; p. 753.

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Shoes, Combined heel-lining and stocking-protector for. M. Gerhart. No. 1,012,253; Dec. 19; Sp. p. 4178; Gaz. vol. 173; p. 717.
Shoes, Cushion instep-raiser for. J. Strootman. No. 1,009,110; Nov. 21; Sp. p. 3304; Gaz. vol. 172; p. 584.
Shoes, Heel-seam for. J. P. Weis. No. 1,011,539; Dec. 12; Sp. p. 2565; Gaz. vol. 173; p. 435.
Shoes, Machine for forming fastening members for welt-. W. F. Fraser. No. 989,903; Apr. 18; Sp. p. 3449; Gaz. vol. 165; p. 601.
Shoes, Machine for forming fastening members for welt-. W. F. Fraser. No. 989,904; Apr. 18; Sp. p. 3451; Gaz. vol. 165; p. 601.
Shoes, Machine for operating on. J. H. Richardson. No. 1,001,078; Aug. 22; Sp. p. 4073; Gaz. vol. 169; p. 747.
Shoes, Machine for operating on. F. B. Keall and J. Gouldbourn. No. 1,006,484; Oct. 24; Sp. p. 4248; Gaz. vol. 171; p. 764.
Shoes, Manufacture of. J. T. Tebbutt. No. 1,011,668; Dec. 12; Sp. p. 2886; Gaz. vol. 173; p. 481.
Shoes, Manufacturing. V. Landry. No. 998,700; July 25; Sp. p. 4573; Gaz. vol. 168; p. 833.
Shoes, Mechanism for turning and relasting what is known as turn-. E. I. La Chapelle. No. 1,009,321; Nov. 21; Sp. p. 3792; Gaz. vol. 172; p. 660.
Shoes, Mechanism for turning turn-. E. I. La Chapelle. No. 1,011,067; Dec. 5; Sp. p. 1454; Gaz. vol. 173; p. 231.
Shoes, Ornament or imitation buckle for. C. S. Clinch. No. 980,205; Jan. 3; Sp. p. 58; Gaz. vol. 162; p. 12.
Shoes, Repair-tip for. S. Rosenblum. No. 990,295; Apr. 25; Sp. p. 4310; Gaz. vol. 165; p. 767.
Shoemaker's jack. C. W. Ragsdale. No. 991,456; May 2; Sp. p. 1345; Gaz. vol. 166; p. 223.
Shoemaker's jack. F. O. Rollins. No. 1,004,470; Sept. 26; Sp. p. 5017; Gaz. vol. 170; p. 883.
Shoemaker's light. C. M. Thompson. No. 991,391; May 2; Sp. p. 1209; Gaz. vol. 166; p. 201.
Shoemaker's tool. W. Hanna. No. 982,599; Jan. 24; Sp. p. 5325; Gaz. vol. 162; p. 918.
Shoemaker's tool. D. Zemborski. No. 995,755; June 20; Sp. p. 3643; Gaz. vol. 167; p. 636.
Shoestring-fastener. H. B. and A. J. McGowan. No. 1,007,369; Oct. 31; Sp. p. 6191; Gaz. vol. 171; p. 1128.
Shot-firer, Chemical. J. Dowd. No. 981,073; Jan. 10; Sp. p. 2061; Gaz. vol. 162; p. 339.
Shotgun, Double-barreled. T. C. Johnson. No. 995,790; June 20; Sp. p. 3719; Gaz. vol. 167; p. 648.
Shoulder-brace. E. Johnson. No. 996,343; June 27; Sp. p. 4951; Gaz. vol. 167; p. 871.
Shoulder-brace. A Myers. No. 997,080; July 4; Sp. p. 1030; Gaz. vol. 168; p. 165.
Shoulder-pad. J. E. Jordan. No. 980,421; Jan. 3; Sp. p. 505; Gaz. vol. 162; p. 86.
Shovel: *See* Ash-sifting shovel; Baker's shovel; Excavator-shovel; Power-shovel; Snow-shovel; Starch-shovel.
Shovel. C. D. Orcutt. No. 990,898; May 2; Sp. p. 148; Gaz. vol. 166; p. 28.
Shovel. F. Erickson. No. 993,668; May 30; Sp. p. 6116; Gaz. vol. 166; p. 1107.
Shovel. G. F. Danielson. No. 996,621; July 4; Sp. p. 56; Gaz. vol. 168; p. 11.
Shovel. G. W. Benton. No. 1,012,972; Dec. 26; Sp. p. 5741; Gaz. vol. 173; p. 1007.
Shovel attachment, Steam-. E. S. Berney. No. 1,008,776; Nov. 14; Sp. p. 2598; Gaz. vol. 172; p. 436.
Shovel-blade. A. and B. Helt. No. 994,158; June 6; Sp. p. 107; Gaz. vol. 167; p. 20.
Shovel-buckets and similar receptacles, Means for operating. J. P. Dowd. No. 1,008,247; Nov. 7; Sp. p. 1294; Gaz. vol. 172; p. 211.
Shovel-buckets and similar receptacles, Means for operating. J. P. Dowd. No. 1,009,653; Nov. 21; Sp. p. 4476; Gaz. vol. 172; p. 771.
Shovel-handle. C. H. Roscoe. No. 986,761; Mar. 14; Sp. p. 2137; Gaz. vol. 164; p. 372.
Shovel-handle, Removable. J. S. Lattimore. No. 1,012,661; Dec. 26; Sp. p. 5016; Gaz. vol. 173; p. 900.
Shovel or spade attachment. W. Sanderson. No. 1,003,808; Sept. 19; Sp. p. 3526; Gaz. vol. 170; p. 627.
Shovel, plow, and scraper, Combination. E. T. Harvey. No. 992,871; May 23; Sp. p. 4378; Gaz. vol. 166; p. 804.
Shovel-tooth point, Detachable. C. H. Mulroney and I. B. Manning. No. 992,034; May 9; Sp. p. 2536; Gaz. vol. 166; p. 451.
Shovels, Automatic tripping mechanism for steam-. F. S. Wichman. No. 980,375; Jan. 3; Sp. p. 400; Gaz. vol. 162; p. 70.
Shovels, Dipper-trip for steam-. A. H. Geddes. No. 1,000,253; Aug. 8; Sp. p. 2194; Gaz. vol. 169; p. 390.
Shovels, spades, and similar articles, Rolls for the manufacture of. J. Atkins. No. 984,790; Feb. 21; Sp. p. 3346; Gaz. vol. 163; p. 590.
Shovels, spades, &c., Rolls for the manufacture of. J. Atkins. No. 985,099; Feb. 21; Sp. p. 3928; Gaz. vol. 163; p. 694.
Shovels, Track-layer for steam-. J. Smith and F. N. Lovejoy. No. 1,001,317; Aug. 22; Sp. p. 4564; Gaz. vol. 169; p. 826.
Shoveling, lifting, carrying, and dumping material, Apparatus for. S. J. Russell. No. 1,012,713; Dec. 26; Sp. p. 5130; Gaz. vol. 173; p. 920.
Show-case. I. Anderson. No. 986,667; Mar. 14; Sp. p. 1940; Gaz. vol. 164; p. 342.
Show-case. C. A. Schaefer. No. 1,002,543; Sept. 5; Sp. p. 810; Gaz. vol. 170; p. 118.
Show-case. J. T. Batts. No. 1,007,052; Oct. 31; Sp. p. 5489; Gaz. vol. 171; p. 1015.
Show-case. F. Kainer. No. 1,008,472; Nov. 14; Sp. p. 1927; Gaz. vol. 172; p. 329.
Show-case. A. Lange. No. 1,009,755; Nov. 28; Sp. p. 4707; Gaz. vol. 172; p. 853.
Show-case fixture. A. Yoakam. No. 988,530; Apr. 4; Sp. p. 510; Gaz. vol. 165; p. 82.
Show-case, Knockdown. L. N. Levinsohn. No. 983,151; Jan. 31; Sp. p. 6508; Gaz. vol. 162; p. 1131.
Show-cases, Sliding door for. A. E. Shaner. No. 981,486; Jan. 10; Sp. p. 2980; Gaz. vol. 162; p. 484.
Show-front or show-case clamp. E. J. Reid. No. 1,012,708; Dec. 26; Sp. p. 5118; Gaz. vol. 173; p. 918.
Show-window structure. D. J. Murnane. No. 1,008,983; Nov. 14; Sp. p. 3018; Gaz. vol. 172; p. 503.
Shrapnel with grenade charge, Bursting. C. Puff. No. 1,006,875; Oct. 24; Sp. p. 5115; Gaz. vol. 171; p. 902.
Shredder-feeder. J. B. Schuman. No. 987,830; Mar. 28; Sp. p. 4374; Gaz. vol. 164; p. 796.
Shredding-machine. F. Klingler. No. 1,007,577; Oct. 31; Sp. p. 6657; Gaz. vol. 171; p. 1199.
Shrouds, Neck attachment for. G. Tester. No. 988,226; Mar. 28; Sp. p. 5244; Gaz. vol. 164; p. 930.
Shrub and plant trimming machine. G. F. Mitchell. No. 989,388; Apr. 11; Sp. p. 2325; Gaz. vol. 165; p. 393.
Shunt, Adjustable series. A. J. Brown. No. 1,005,805; Oct. 17; Sp. p. 2700; Gaz. vol. 171; p. 494.
Shutter. G. C. Trotter. No. 1,005,584; Oct. 10; Sp. p. 2247; Gaz. vol. 171; p. 387.
Shutter-bower. R. G. Winter. No. 1,003,389; Sept. 12; Sp. p. 2619; Gaz. vol. 170; p. 450.
Shutter, Flexible or rolling metallic. W. M. Brunst. No. 994,440; June 6; Sp. p. 700; Gaz. vol. 167; p. 120.
Shutter-holder. H. M. Hart. No. 982,718; Jan. 24; Sp. p. 5569; Gaz. vol. 162; p. 958.
Shutter holder, Window-. P. Devlin. No. 982,414; Jan. 24; Sp. p. 4938; Gaz. vol. 162; p. 855.
Shutter-operating device. E. Prescott. No. 992,449; May 16; Sp. p. 3480; Gaz. vol. 166; p. 626.
Shutter-slat fastener. A. Basnett. No. 993,217; May 23; Sp. p. 5112; Gaz. vol. 166; p. 921.
Shutter-slat operator. T. Thompson. No. 1,006,149; Oct. 17; Sp. p. 3475; Gaz. vol. 171; p. 616.
Shutter-worker. W. G. Crawford. No. 984,196; Feb. 14; Sp. p. 2028; Gaz. vol. 163; p. 349.
Shutter-worker. M. W. Smith. No. 993,118; May 23; Sp. p. 4924; Gaz. vol. 166; p. 891.
Shuttle. D. H. Saunders. No. 992,452; May 16; Sp. p. 3486; Gaz. vol. 166; p. 627.
Shuttle. J. F. Dustin. No. 994,066; May 30; Sp. p. 6915; Gaz. vol. 166; p. 1242.
Shuttle. C. Pommier. No. 1,000,625; Aug. 15; Sp. p. 3054; Gaz. vol. 169; p. 555.
Shuttle. E. Wackerhagen. No. 1,001,910; Aug. 29; Sp. p. 5806; Gaz. vol. 169; p. 1057.
Shuttle. W. S. Judy. No. 1,004,656; Oct. 3; Sp. p. 226; Gaz. vol. 171; p. 40.
Shuttle. M. E. Deering. No. 1,010,873; Dec. 5; Sp. p. 1059; Gaz. vol. 173; p. 165.
Shuttle. G. Hulme and P. H. Rowley. No. 1,011,060; Dec. 5; Sp. p. 1440; Gaz. vol. 173; p. 229.
Shuttle attachment. G. Pavia. No. 1,006,400; Oct. 17; Sp. p. 4043; Gaz. vol. 171; p. 704.
Shuttle-blocks, Manufacturing. M. Mitchell. No. 987,392; Mar. 21; Sp. p. 3462; Gaz. vol. 164; p. 618.
Shuttle-box-actuating mechanism. W. H. Royal. No. 997,009; July 4; Sp. p. 890; Gaz. vol. 168; p. 141.
Shuttle-eye, Threading. R. A. Taylor. No. 988,294; Mar. 28; Sp. p. 5385; Gaz. vol. 164; p. 952.
Shuttle-eyes, Blank for self-threading. C. Glover. No. 983,435; Feb. 7; Sp. p. 373; Gaz. vol. 163; p. 62.
Shuttle, Hand-threading. G. M. Cheney. No. 985,143; Feb. 28; Sp. p. 4042; Gaz. vol. 163; p. 743.
Shuttle, Hand-threading. D. Brown and H. L. Bonney. No. 1,000,372; Aug. 15; Sp. p. 2472; Gaz. vol. 169; p. 462.
Shuttle-heater. N. Morneau. No. 1,008,665; Nov. 14; Sp. p. 2353; Gaz. vol. 172; p. 397.
Shuttle mechanism. B. H. Theisen and G. S. Keller. No. 982,548; Jan. 24; Sp. p. 5234; Gaz. vol. 162; p. 903.
Shuttle-race cover. M. McCaffrey. No. 983,739; Feb. 7; Sp. p. 1029; Gaz. vol. 163; p. 165.
Shuttle-replenishing mechanism. M. Schoenfeld. No. 991,655; May 9; Sp. p. 1790; Gaz. vol. 166; p. 326.
Shuttle-threader. J. Anderson. No. 1,009,623; Nov. 21; Sp. p. 4425; Gaz. vol. 172; p. 762.
Shuttle-threading implement, Portable pneumatic. A. Ricci. No. 984,606; Feb. 21; Sp. p. 2950; Gaz. vol. 163; p. 524.
Shuttle, Weaver's. F. Blumer-Streiff. No. 986,040; Mar. 7; Sp. p. 612; Gaz. vol. 164; p. 98.

Alphabetical list of inventions—Continued.

Shuttlecock. S. Sadler. No. 1,011,856; Dec. 12; Sp. p. 3272; Gaz. vol. 173; p. 544.
Sickle, Endless. P. J. Harms. No. 992,656; May 16; Sp. p. 3915; Gaz. vol. 166; p. 698.
Side-arm support. M. B. Fountain. No. 984,367; Feb. 14; Sp. p. 2407; Gaz. vol. 163; p. 408.
Side-delivery rake. P. Randall. No. 1,009,095; Nov. 21; Sp. p. 3271; Gaz. vol. 172; p. 579.
Sidewalk and vault light. E. E. Gilmer. No. 991,465; May 2; Sp. p. 1362; Gaz. vol. 166; p. 226.
Sidewalk construction. C. A. Farnum. No. 1,010,417; Dec. 5; Sp. p. 28; Gaz. vol. 173; p. 7.
Sidewalk-elevator, Extension. F. C. Birch. No. 982,929; Jan. 31; Sp. p. 6046; Gaz. vol. 162; p. 1058.
Sidewalk-form. J. Ubbink. No. 1,008,395; Nov. 14; Sp. p. 1717; Gaz. vol. 172; p. 302.
Sidewalk-light. C. W. Roberts. No. 996,729; July 4; Sp. p. 258; Gaz. vol. 168; p. 45.
Sidewalk-tool. W. S. Glasscock. No. 988,457; Apr. 4; Sp. p. 354; Gaz. vol. 165; p. 57.
Siding-gage. J. T. Stubbs. No. 1,011,390; Dec. 12; Sp. p. 2229; Gaz. vol. 173; p. 380.
Sieve. J. McDaniel. No. 1,006,252; Oct. 17; Sp. p. 3717; Gaz. vol. 171; p. 653.
Sieve-cleaner. J. A. Smillie. No. 1,009,348; Nov. 21; Sp. p. 3844; Gaz. vol. 172; p. 669.
Sieve-cleaning device. A. H. Kirk. No. 989,713; Apr. 18; Sp. p. 3043; Gaz. vol. 165; p. 536.
Sieve, Rotary spiral. J. S. Fasting. No. 997,185; July 4; Sp. p. 1238; Gaz. vol. 168; p. 201.
Sieve-vibrator. W. C. Woodland. No. 1,012,956; Dec. 26; Sp. p. 5715; Gaz. vol. 173; p. 1002.
Sieving-machine. J. B. Loison. No. 989,167; Apr. 11; Sp. p. 1843; Gaz. vol. 165; p. 320.
Sifter. E. Omberg. No. 983,398; Feb. 7; Sp. p. 302; Gaz. vol. 163; p. 51.
Sifter. R. G. Cowles. No. 1,002,041; Aug. 29; Sp. p. 6088; Gaz. vol. 169; p. 1100.
Sifter. G. McEachron. No. 1,005,991; Oct. 17; Sp. p. 3119; Gaz. vol. 171; p. 560.
Sifter. I. M. Newell. No. 1,008,281; Nov. 7; Sp. p. 1371; Gaz. vol. 172; p. 223.
Sifter. F. Lehrmann. No. 1,011,822; Dec. 12; Sp. p. 3191; Gaz. vol. 173; p. 533.
Sifter, Ash-. M. Buhlig. No. 983,532; Feb. 7; Sp. p. 582; Gaz. vol. 163; p. 94.
Sifter, Ash-. J. A. Lapointe. No. 986,727; Mar. 14; Sp. p. 2057; Gaz. vol. 164; p. 360.
Sifter, Ash-. J. H. Scholding. No. 993,722; May 30; Sp. p. 6227; Gaz. vol. 166; p. 1126.
Sifter, Electrically-operated. J. F. Beck and W. Lindsay. No. 994,109; June 6; Sp. p. 8; Gaz. vol. 167; p. 4.
Sifter, Electromagnetic. T. T. Fauntleroy. No. 998,486; July 18; Sp. p. 4097; Gaz. vol. 168; p. 726.
Sifter, Flour-. E. T. Farmer. No. 989,956; Apr. 18; Sp. p. 3572; Gaz. vol. 165; p. 619.
Sifter, Flour-. A. J. Jenevein. No. 1,003,184; Sept. 12; Sp. p. 2203; Gaz. vol. 170; p. 378.
Sifter, Flour-. B. W. Lee. No. 1,007,119; Oct. 31; Sp. p. 5655; Gaz. vol. 171; p. 1038.
Sifter or the like. A. Holm. No. 1,003,460; Sept. 19; Sp. p. 2775; Gaz. vol. 170; p. 508.
Sifter-top for cans or vessels. J. M. Hothersall. No. 990,982; May 2; Sp. p. 325; Gaz. vol. 166; p. 56.
Sifting mechanism. I. Wantling. No. 1,002,343; Sept. 5; Sp. p. 384; Gaz. vol. 170; p. 54.
Sight device, Telescope-. H. Korrodi. No. 988,643; Apr. 4; Sp. p. 761; Gaz. vol. 165; p. 122.
Sighting device. J. T. Peddie. No. 1,012,427; Dec. 19; Sp. p. 4525; Gaz. vol. 173; p. 774.
Sign. C. S. Neville. (Reissue.) No. 13,189; Jan. 3; Sp. p. 1563; Gaz. vol. 162; p. 247.
Sign. C. C. Wortley. No. 983,593; Feb. 7; Sp. p. 736; Gaz. vol. 163; p. 115.
Sign. G. L. Clapp. No. 983,684; Feb. 7; Sp. p. 929; Gaz. vol. 163; p. 147.
Sign. L. G. Solenberger. No. 986,235; Mar. 7; Sp. p. 1003; Gaz. vol. 164; p. 161.
Sign. R. G. Jenckes. No. 988,104; Mar. 28; Sp. p. 5020; Gaz. vol. 164; p. 890.
Sign. I. L. Hammond. No. 992,191; May 16; Sp. p. 2880; Gaz. vol. 166; p. 537.
Sign. P. H. Bethea. No. 993,818; May 30; Sp. p. 6435; Gaz. vol. 166; p. 1159.
Sign. L. M. Hand and O. W. Morgan. No. 993,984; May 30; Sp. p. 6754; Gaz. vol. 166; p. 1214.
Sign. H. Hoag. No. 996,715; July 4; Sp. p. 241; Gaz. vol. 168; p. 41.
Sign. J. J. Jones. No. 1,006,483; Oct. 24; Sp. p. 4246; Gaz. vol. 171; p. 763.
Sign. J. Hotchner. No. 1,007,029; Oct. 24; Sp. p. 5435; Gaz. vol. 171; p. 952.
Sign. G. F. Harding. No. 1,009,409; Nov. 21; Sp. p. 4007; Gaz. vol. 172; p. 692.
Sign. C. L. Carter. No. 1,009,893; Nov. 28; Sp. p. 4979; Gaz. vol. 172; p. 899.
Sign, Advertising-. M. S. Gruskin. No. 983,438; Feb. 7; Sp. p. 383; Gaz. vol. 163; p. 63.
Sign, Advertising-. L. P. Chesley. No. 991,136; May 2; Sp. p. 656; Gaz. vol. 166; p. 112.
Sign, Advertising-. O. C. Dennis. No. 996,224; June 27; Sp. p. 4662; Gaz. vol. 167; p. 832.
Sign and making the same, Electric. H. A. Schmidt. No. 1,005,482; Oct. 10; Sp. p. 1987; Gaz. vol. 171; p. 349.
Sign and picture frame. C. Lindemann. No. 994,012; May 30; Sp. p. 6817; Gaz. vol. 166; p. 1223.
Sign apparatus, Repeating. C. C. Bishop. No. 1,010,219; Nov. 28; Sp. p. 5641; Gaz. vol. 172; p. 1009.
Sign-casing. E. E. Lambe. No. 1,005,719; Oct. 10; Sp. p. 2520; Gaz. vol. 171; p. 433.
Sign, Changeable. T. M. Genolin. No. 984,476; Feb. 14; Sp. p. 2625; Gaz. vol. 163; p. 443.
Sign, Changeable illuminated. R. E. Lippincott. No. 996,778; July 4; Sp. p. 353; Gaz. vol. 168; p. 61.
Sign, Color-changing and flash-light. G. A. Miller. No. 1,004,671; Oct. 3; Sp. p. 256; Gaz. vol. 171; p. 45.
Sign device. A. J. Mathews. No. 991,867; May 9; Sp. p. 2216; Gaz. vol. 166; p. 396.
Sign-displaying indicator. H. G. Fisher. No. 994,992; June 13; Sp. p. 1980; Gaz. vol. 167; p. 346.
Sign, Electric. A. V. Diehl. No. 982,352; Jan. 24; Sp. p. 4812; Gaz. vol. 162; p. 834.
Sign, Electric. E. A. Leopoldt. No. 983,558; Feb. 7; Sp. p. 668; Gaz. vol. 163; p. 103.
Sign, Electric. T. C. Starr. No. 1,007,500; Oct. 31; Sp. p. 6483; Gaz. vol. 171; p. 1173.
Sign, Electric. C. Hammesfahr. No. 1,007,868; Nov. 7; Sp. p. 513; Gaz. vol. 172; p. 77.
Sign-exhibitor. H., E., and A. Mehlhorn. No. 1,009,543; Nov. 21; Sp. p. 4284; Gaz. vol. 172; p. 737.
Sign-flasher. O. D. Ziegler. No. 992,468; May 16; Sp. p. 3525; Gaz. vol. 166; p. 633.
Sign for railway-cars, &c. F. P. Maize. No. 991,521; May 9; Sp. p. 1482; Gaz. vol. 166; p. 277.
Sign for windows, Curtain-. J. H. Fitch. No. 981,184; Jan. 10; Sp. p. 2294; Gaz. vol. 162; p. 379.
Sign-holding device. W. A. Rindge. No. 1,002,759; Sept. 5; Sp. p. 1287; Gaz. vol. 170; p. 193.
Sign, Illuminated. C. A. McNeal. No. 981,209; Jan. 10; Sp. p. 2346; Gaz. vol. 162; p. 387.
Sign, Illuminated. J. Hotchner. No. 987,070; Mar. 14; Sp. p. 2740; Gaz. vol. 164; p. 474.
Sign, Illuminated. H. E. Westerberg. No. 987,274; Mar. 21; Sp. p. 3211; Gaz. vol. 164; p. 579.
Sign, Illuminated. L. A. Watkins. No. 987,335; Mar. 21; Sp. p. 3332; Gaz. vol. 164; p. 598.
Sign, Illuminated. S. Felver. No. 1,003,724; Sept. 19; Sp. p. 3361; Gaz. vol. 170; p. 600.
Sign, Illuminated. H. Mulholland and C. G. West. No. 1,004,585; Oct. 3; Sp. p. 75; Gaz. vol. 171; p. 14.
Sign, Illuminated. L. H. Moise. No. 1,004,807; Oct. 3; Sp. p. 558; Gaz. vol. 171; p. 91.
Sign, Illuminated. L. H. Moise. No. 1,004,808; Oct. 3; Sp. p. 560; Gaz. vol. 171; p. 92.
Sign, Illuminated. A. W. and J. H. Stahl. No. 1,005,898; Oct. 17; Sp. p. 2907; Gaz. vol. 171; p. 527.
Sign, Illuminated electric. J. Hotchner. No. 987,069; Mar. 14; Sp. p. 2739; Gaz. vol. 164; p. 473.
Sign, Interchangeable illuminated. F. S. Stafford. No. 983,945; Feb. 14; Sp. p. 1504; Gaz. vol. 163; p. 265.
Sign-receptacles, Fastening device for electrical. E. H. Freeman. No. 996,844; July 4; Sp. p. 504; Gaz. vol. 168; p. 83.
Sign structure. T. O. Matthews. No. 1,001,541; Aug. 22; Sp. p. 4987; Gaz. vol. 169; p. 900.
Signs and the like for advertising purposes, Mechanism for producing gas-lighted flash-. T. Jackson. No. 1,009,313; Nov. 21; Sp. p. 3767; Gaz. vol. 172; p. 656.
Signs, Device for directing the attention to advertising-. Z. T. Merrill. No. 1,006,769; Oct. 24; Sp. p. 4863; Gaz. vol. 171; p. 864.
Signs, Making patterns for triple. R. A. Miller. No. 990,490; Apr. 25; Sp. p. 4786; Gaz. vol. 165; p. 837.
Signal: *See* Air-brake signal; Car-signal; Car street-signal; Crossing-signal; Door-signal; Electric signal; Funnel-signal; Headlight-signal; Highway-signal; Mine-cage signal; Railway-signal; Railway-crossing signal; Railway danger-signal; Railway-switch signal; Switch-signal; Tank-level signal; Telephone-signal; Telephone time-signal; Three-position signal; Tire-signal; Train-signal; Vehicle-signal; Vehicle safety-signal; Warning-signal.
Signal. W. B. Knapp. No. 997,833; July 11; Sp. p. 2636; Gaz. vol. 168; p. 453.
Signal. B. Ferguson. No. 998,488; July 18; Sp. p. 4103; Gaz. vol. 168; p. 727.
Signal-actuating mechanism, Electric. W. J. Bell. No. 1,009,015; Nov. 14; Sp. p. 3095; Gaz. vol. 172; p. 515.
Signal and air connection, Automatic fluid-. A. E. Squyars. No. 1,012,469; Dec. 19; Sp. p. 4598; Gaz. vol. 173; p. 788.
Signal apparatus. R. Berrenberg. No. 987,037; Mar. 14; Sp. p. 2678; Gaz. vol. 164; p. 464.
Signal apparatus. A. J. Kercher. No. 1,003,185; Sept. 12; Sp. p. 2205; Gaz. vol. 170; p. 379.
Signal appliance, Safety. W. A. Woods. No. 983,415; Feb. 7; Sp. p. 331; Gaz. vol. 163; p. 56.
Signal-blade. M. D. Hanlon. No. 985,167; Feb. 28; Sp. p. 4128; Gaz. vol. 163; p. 751.

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Signal-contact. E. R. Cunningham. No. 1,005,418; Oct. 10; Sp. p. 1838; Gaz. vol. 171; p. 327.
Signal-cord hanger. A. S. Vogt. No. 1,009,946; Nov. 28; Sp. p. 5087; Gaz. vol. 172; p. 917.
Signal device. A. J. Thelen. No. 1,007,751; Nov. 7; Sp. p. 224; Gaz. vol. 172; p. 35.
Signal device, Automatic. F. Porto. No. 1,007,387; Oct. 31; Sp. p. 6237; Gaz. vol. 171; p. 1135.
Signal device, Warning-. W. W. Dean. No. 998,162; July 18; Sp. p. 3382; Gaz. vol. 168; p. 610.
Signal electrical apparatus, Optic-. C. J. Herbeck. No. 1,003,183; Sept. 12; Sp. p. 2201; Gaz. vol. 170; p. 378.
Signal-lock. D. J. Kavanagh and C. P. Queen. No. 986,296; Mar. 7; Sp. p. 1118; Gaz. vol. 164; p. 180.
Signal-lock. H. Blank. No. 986,962; Mar. 14; Sp. p. 2544; Gaz. vol. 164; p. 440.
Signal-recording system, Electrical. A. L. Sohm. No. 988,218; Mar. 28; Sp. p. 5225; Gaz. vol. 164; p. 927.
Signal-relays, Mercury circuit-breaker and shunt for. E. A. Everett. No. 990,967; May 2; Sp. p. 299; Gaz. vol. 166; p. 52.
Signal system. A. K. Dement. No. 1,007,545; Oct. 31; Sp. p. 6580; Gaz. vol. 171; p. 1189.
Signal system, Automatic. S. H. Harrington. No. 1,009,742; Nov. 28; Sp. p. 4676; Gaz. vol. 172; p. 849.
Signal system, Electric. W. V. Turner. No. 1,011,527; Dec. 12; Sp. p. 2538; Gaz. vol. 173; p. 430.
Signal system, Police. A. K. Dement. No. 1,007,544; Oct. 31; Sp. p. 6575; Gaz. vol. 171; p. 1188.
Signal system, Self-answering. E. R. Gill. (Reissue.) No. 13,248; May 30; Sp. p. 7011; Gaz. vol. 166; p. 1258.
Signal-transmitter. J. McFell. No. 988,009; Mar. 28; Sp. p. 4817; Gaz. vol. 164; p. 858.
Signals, Electrical apparatus for transmitting and receiving. A. Barr and W. Stroud. No. 1,009,013; Nov. 14; Sp. p. 3090; Gaz. vol. 172; p. 514.
Signals electrically through conductors, System of transmitting. F. Fisher. No. 993,046; May 23; Sp. p. 4759; Gaz. vol. 166; p. 866.
Signals, Means for securing roundels in semaphore-. E. J. Relph. No. 992,062; May 9; Sp. p. 2595; Gaz. vol. 166; p. 462.
Signaling. D. Robertson. No. 1,003,067; Sept. 12; Sp. p. 1944; Gaz. vol. 170; p. 336.
Signaling and alarm apparatus, Electrical. C. H. Pool. No. 984,154; Feb. 14; Sp. p. 1949; Gaz. vol. 163; p. 334.
Signaling and controlling system, Police. C. C. Lamb. No. 1,006,235; Oct. 17; Sp. p. 3672; Gaz. vol. 171; p. 647.
Signaling apparatus. H. Shoemaker. No. 997,515; July 11; Sp. p. 1892; Gaz. vol. 168; p. 341.
Signaling apparatus. C. P. Nachod. No. 997,692; July 11; Sp. p. 2276; Gaz. vol. 168; p. 403.
Signaling apparatus. G. F. Atwood. No. 1,000,572; Aug. 15, Sp. p. 2919; Gaz. vol. 169; p. 535.
Signaling apparatus, Box for carrying wireless. M. B. Johnson. No. 996,092; June 27; Sp. p. 4347; Gaz. vol. 167; p. 787.
Signaling-apparatus detector, Wireless-. M. B. Johnson. No. 1,009,317; Nov. 21; Sp. p. 3776; Gaz. vol. 172; p. 658.
Signaling apparatus, Electric. R. A. Wilhite. No. 980,380; Jan. 3; Sp. p. 411; Gaz. vol. 162; p. 71.
Signaling apparatus, Electric. E. Pope. No. 989,799; Apr. 18; Sp. p. 3240; Gaz. vol. 165; p. 566.
Signaling apparatus, Electric. S. P. Thrasher. No. 994,218; June 6; Sp. p. 243; Gaz. vol. 167; p. 42.
Signaling apparatus, Electric. L. P. Locke. No. 1,003,143; Sept. 12; Sp. p. 2106; Gaz. vol. 170; p. 362.
Signaling apparatus, Military. B. R. Dietz. No. 995,334; June 13; Sp. p. 2680; Gaz. vol. 167; p. 459.
Signaling apparatus, Selective. I. F. Manny. No. 995,619; June 20; Sp. p. 3336; Gaz. vol. 167; p. 588.
Signaling apparatus, Speed-limit-. F. M. Butler. No. 1,010,412; Dec. 5; Sp. p. 13; Gaz. vol. 173; p. 5.
Signaling apparatus, Submarine-boat. J. F. Shea. No. 1,009,800; Nov. 28; Sp. p. 4797; Gaz. vol. 172; p. 868.
Signaling attachment for speedometers. W. J. Norton. No. 996,120; June 27; Sp. p. 4402; Gaz. vol. 167; p. 797.
Signaling by electromagnetic waves. R. A. Fessenden. No. 998,567; July 18; Sp. p. 4262; Gaz. vol. 168; p. 754.
Signaling by electromagnetic waves. R. A. Fessenden. No. 1,002,049; Aug. 29; Sp. p. 6101; Gaz. vol. 169; p. 1102.
Signaling by electromagnetic waves. R. A. Fessenden. No. 1,002,051; Aug. 29; Sp. p. 6105; Gaz. vol. 169; p. 1103.
Signaling device. R. E. Story, A. B. and J. Booth. No. 984,317; Feb. 14; Sp. p. 2314; Gaz. vol. 163; p. 392.
Signaling device. R. B. Tenney, Jr. No. 990,683; Apr. 25; Sp. p. 5217; Gaz. vol. 165; p. 901.
Signaling device. F. J. Poinan. No. 990,771; Apr. 25; Sp. p. 5401; Gaz. vol. 165; p. 931.
Signaling device. F. J. Poinan. No. 1,007,235; Oct. 31; Sp. p. 5925; Gaz. vol. 171; p. 1081.
Signaling device, Electric. D. M. Bliss. No. 982,930; Jan. 31; Sp. p. 6050; Gaz. vol. 162; p. 1058.
Signaling device, Electrical. J. G. Schafer. No. 983,403; Feb. 7; Sp. p. 310; Gaz. vol. 163; p. 53.
Signaling device for automobiles or like vehicles. A. Lehrer. No. 998,356; July 18; Sp. p. 3841; Gaz. vol. 168; p. 682.
Signaling device, Selective. E. R. Gill. No. 1,004,566; Oct. 3; Sp. p. 38; Gaz. vol. 171; p. 8.
Signaling device, Switch. W. H. Jenkins. No. 1,004,272; Sept. 26; Sp. p. 4611; Gaz. vol. 170; p. 815.
Signaling devices, Recording means for. L. S. Chadwick. No. 1,002,368; Sept. 5; Sp. p. 442; Gaz. vol. 170; p. 62.
Signaling, Electrical. R. A. Fessenden. No. 1,002,052; Aug. 29; Sp. p. 6106; Gaz. vol. 169; p. 1103.
Signaling instrument, Electromagnetic. S. H. Sauvé. No. 1,009,345; Nov. 21; Sp. p. 3838; Gaz. vol. 172; p. 668.
Signaling means, Electric. A. J. Allard. No. 988,162; Mar. 28; Sp. p. 5124; Gaz. vol. 164; p. 908.
Signaling means, Selective. I. F. Manny. No. 986,639; Mar. 14; Sp. p. 1867; Gaz. vol. 164; p. 332.
Signaling mechanism. H. Macdonald. No. 982,839; Jan. 31; Sp. p. 5838; Gaz. vol. 162; p. 1028.
Signaling-receiver. R. A. Fessenden. No. 1,002,050; Aug. 29; Sp. p. 6102; Gaz. vol. 169; p. 1103.
Signaling, Submarine sound-. J. Gardner. No. 1,006,079; Oct. 17; Sp. p. 3301; Gaz. vol. 171; p. 590.
Signaling system. H. O. Rugh. No. 1,002,181; Aug. 29; Sp. p. 6336; Gaz. vol. 169; p. 1145.
Signaling system, Automatic. D. J. McCarthy. No. 1,008,172; Nov. 7; Sp. p. 1112; Gaz. vol. 172; p. 183.
Signaling system, Electric. J. S. Harley. No. 988,465; Apr. 4; Sp. p. 376; Gaz. vol. 165; p. 60.
Signaling system, Electric. J. G. Nolen and J. E. Shepherd. No. 998,299; July 18; Sp. p. 3715; Gaz. vol. 168; p. 662.
Signaling system for mines. E. M. Johnson. No. 1,004,879; Oct. 3; Sp. p. 733; Gaz. vol. 171; p. 118.
Signaling system, Pneumatic. G. T. Rowton. No. 1,006,289; Oct. 17; Sp. p. 3804; Gaz. vol. 171; p. 667.
Signaling system, Selective. J. Erickson. No. 984,202; Feb. 14; Sp. p. 2040; Gaz. vol. 163; p. 351.
Signaling system, Selective. J. Erickson. No. 984,203; Feb. 14; Sp. p. 2056; Gaz. vol. 163; p. 352.
Signaling system, Selective. O. M. Leich. No. 1,002,713; Sept. 5; Sp. p. 1184; Gaz. vol. 170; p. 177.
Signaling system, Selective. E. R. Gill. No. 1,003,250; Sept. 12; Sp. p. 2348; Gaz. vol. 170; p. 403.
Signaling system, Selective. E. R. Gill. No. 1,004,567; Oct. 3; Sp. p. 42; Gaz. vol. 171; p. 9.
Signaling system, Selective. V. Durbin. No. 1,008,452; Nov. 14; Sp. p. 1874; Gaz. vol. 172; p. 322.
Signaling system, Supervisory. W. G. Blauvelt. No. 990,219; Apr. 25; Sp. p. 4127; Gaz. vol. 165; p. 739.
Signaling system, Wireless. S. Eisenstein. No. 991,837; May 9; Sp. p. 2163; Gaz. vol. 166; p. 385.
Silencer. J. M. Miller. No. 981,584; Jan. 10; Sp. p. 3169; Gaz. vol. 162; p. 517.
Silencer and bayonet, Combined. B. W. King. No. 989,158; Apr. 11; Sp. p. 1825; Gaz. vol. 165; p. 316.
Silicon carbid, Manufacture of solid-fashioned bodies containing. G. Egly. No. 1,012,531; Dec. 19; Sp. p. 4722; Gaz. vol. 173; p. 811.
Silicon carbid, Production of dense compacted. F. J. Tone. No. 992,698; May 16; Sp. p. 3995; Gaz. vol. 166; p. 713.
Silicon-oxygen product. F. J. Tone. No. 993,913; May 30; Sp. p. 6600; Gaz. vol. 166; p. 1189.
Silk cleaning and twisting machine. G. E. Sly. No. 995,382; June 13; Sp. p. 2790; Gaz. vol. 167; p. 475.
Silk or warp in a single operation, Apparatus for preparing. P. Saracco. No. 981,122; Jan. 10; Sp. p. 2167; Gaz. vol. 162; p. 357.
Silk-rewinding apparatus. P. Saracco. No. 980,682; Jan. 3; Sp. p. 1100; Gaz. vol. 162; p. 176.
Silk, Treating. S. B. Rains. No. 992,803; May 23; Sp. p. 4217; Gaz. vol. 166; p. 779.
Silk weighted with metal salts, Preserving. O. Meister. No. 991,220; May 2; Sp. p. 838; Gaz. vol. 166; p. 142.
Silk weighted with metal salts, Preserving. O. Meister. No. 991,221; May 2; Sp. p. 839; Gaz. vol. 166; p. 143.
Silo. C. De Jonge. No. 994,133; June 6; Sp. p. 62; Gaz. vol. 167; p. 13.
Silo. W. Hanson and A. Palmquist. No. 998,575; July 18; Sp. p. 4284; Gaz. vol. 168; p. 757.
Silo. E. F. Younce. No. 1,001,724; Aug. 29; Sp. p. 5388; Gaz. vol. 169; p. 994.
Silo-door. C. P. Vernier. No. 1,009,809; Nov. 28; Sp. p. 4812; Gaz. vol. 172; p. 872.
Silo-doors, Swinging connection for. E. A. Brandenburg and G. Schmidt. No. 1,009,889; Nov. 28; Sp. p. 4973; Gaz. vol. 172; p. 898.
Silo-hoop. E. B. Lacey. No. 1,003,617; Sept. 19; Sp. p. 3124; Gaz. vol. 170; p. 563.
Silo, Knockdown. J. D. La Tier and L. E. Dietel. No. 994,525; June 6; Sp. p. 883; Gaz. vol. 167; p. 146.
Silo-reinforcing means. P. B. Naylor. No. 988,731; Apr. 4; Sp. p. 959; Gaz. vol. 165; p. 152.
Silo-roof, Sectional. F. H. Tulley and W. F. Smiester. No. 1,011,281; Dec. 12; Sp. p. 2000; Gaz. vol. 173; p. 344.
Silos, Top for. E. F. Schlichter. No. 1,008,735; Nov. 14; Sp. p. 2506; Gaz. vol. 172; p. 422.
Silver bullion, Refining. B. Neilly. No. 1,004,676; Oct. 3; Sp. p. 269; Gaz. vol. 171; p. 46.

Silver plate and the like, Electrochemical process for cleaning and polishing. A. M. Kohler. No. 983,727; Feb. 7; Sp. p. 1007; Gaz. vol. 163; p. 160.
Silversmith's stock. M. T. Goldsmith. No. 990,253; Apr. 25; Sp. p. 4218; Gaz. vol. 165; p. 752.
Simmering-burner. W. N. Goldhamer. No. 1,007,863; Nov. 7; Sp. p. 503; Gaz. vol. 172; p. 75.
Singeing-machine. J. H. Skitt and G. E. Drum. No. 1,012,022; Dec. 19; Sp. p. 3664; Gaz. vol. 173; p. 638.
Singeing-machine. J. H. Skitt and G. E. Drum. No. 1,012,172; Dec. 19; Sp. p. 3994; Gaz. vol. 173; p. 689.
Single-trigger mechanism. V. C. Hodges. No. 1,011,432; Dec. 12; Sp. p. 2311; Gaz. vol. 173; p. 395.
Sink and pump support. H. H. Macomber. No. 991,863; May 9; Sp. p. 2210; Gaz. vol. 166; p. 395.
Sink and similar washbasin. F. G. Pohl. No. 983,644; Feb. 7; Sp. p. 830; Gaz. vol. 163; p. 133.
Sink-bracket. M. H. Smith. No. 1,004,597; Oct. 3; Sp. p. 105; Gaz. vol. 171; p. 18.
Sink connection. W. G. Stewart. No. 980,848; Jan. 3; Sp. p. 1428; Gaz. vol. 162; p. 229.
Sink-frame bracket. W. J. Daly. No. 1,006,361; Oct. 17; Sp. p. 3966; Gaz. vol. 171; p. 690.
Sink-screen. M. R. Schaffer. No. 998,404; July 18; Sp. p. 3946; Gaz. vol. 168; p. 699.
Sink-shield. E. S. and M. E. Barrett. No. 998,149; July 18; Sp. p. 3361; Gaz. vol. 168; p. 606.
Sink-strainer and waste-pipe cleaner, Combined siphon. B. P. Smith. No. 986,601; Mar. 14; Sp. p. 1796; Gaz. vol. 164; p. 318.
Sink structure. T. F. Payne. No. 989,405; Apr. 11; Sp. p. 2359; Gaz. vol. 165; p. 398.
Siphon. S. Sekine. No. 991,657; May 9; Sp. p. 1796; Gaz. vol. 166; p. 327.
Siphon apparatus. B. A. Watts. No. 1,012,040; Dec. 19; Sp. p. 3703; Gaz. vol. 173; p. 644.
Siphon, Individual dispensing-. G. L. Kennedy. No. 991,724; May 9; Sp. p. 1943; Gaz. vol. 166; p. 348.
Siphons for aerated liquids, Head of. W. T. W. Idris and R. H. Griffith. No. 1,011,676; Dec. 12; Sp. p. 2895; Gaz. vol. 173; p. 483.
Siphoning fluid. R. W. Davies. No. 987,968; Mar. 28; Sp. p. 4740; Gaz. vol. 164; p. 845.
6.7-methylenedioxy-3.4-dihydroisoquinolin. H. Decker. No. 1,010,598; Dec. 5; Sp. p. 452; Gaz. vol. 173; p. 70.
Size, Manufacturing. L. Paechtner. No. 987,595; Mar. 21; Sp. p. 3856; Gaz. vol. 164; p. 687.
Sizing compound. S. M. Hermann. No. 997,294; July 11; Sp. p. 1478; Gaz. vol. 168; p. 270.
Skate. C. Brown. No. 982,239; Jan. 24; Sp. p. 4561; Gaz. vol. 162; p. 793.
Skate brake, Roller-. S. J. Nesbitt, Sr. No. 982,846; Jan. 31; Sp. p. 5851; Gaz. vol. 162; p. 1030.
Skate, Combined roller and ice. J. Oldfield. No. 992,443; May 16; Sp. p. 3470; Gaz. vol. 166; p. 624.
Skate, Detachable roller and ice. C. F. W. Zippel. No. 1,010,105; Nov. 28; Sp. p. 5422; Gaz. vol. 172; p. 972.
Skate-holding clamp. H. Roberts. No. 986,501; Mar. 14; Sp. p. 1586; Gaz. vol. 164; p. 282.
Skate, Roller-. L. Zamboni. No. 983,970; Feb. 14; Sp. p. 1551; Gaz. vol. 163; p. 273.
Skate, Roller-. J. Zvěřina. No. 988,533; Apr. 4; Sp. p. 519; Gaz. vol. 165; p. 83.
Skate, Roller-. J. Warner. No. 995,504; June 20; Sp. p. 3065; Gaz. vol. 167; p. 547.
Skate, Roller-. W. and J. H. Mills. No. 1,002,729; Sept. 5; Sp. p. 1233; Gaz. vol. 170; p. 184.
Skate, Roller-. H. Nannenhorn. No. 1,008,187; Nov. 7; Sp. p. 1148; Gaz. vol. 172; p. 189.
Skate-runner. C. Adler. No. 997,030; July 4; Sp. p. 938; Gaz. vol. 168; p. 149.
Skate, Shoe-. W. R. Dorsey. No. 998,605; July 25; Sp. p. 4366; Gaz. vol. 168; p. 799.
Skate, Water-. J. Longwell. No. 987,730; Mar. 28; Sp. p. 4173; Gaz. vol. 164; p. 762.
Skate-wheel. T. E. King. No. 1,006,952; Oct. 24; Sp. p. 5274; Gaz. vol. 171; p. 968.
Skeleton, Anatomical. C. E. Fleck. No. 983,547; Feb. 7; Sp. p. 630; Gaz. vol. 163; p. 99.
Skewer-making machine. R. A. Grover. No. 993,981; May 30; Sp. p. 6737; Gaz. vol. 166; p. 1212.
Skid. C. W. Levalley. No. 984,379; Feb. 14; Sp. p. 2439; Gaz. vol. 163; p. 412.
Skid-lifting device. W. H. Kratsch. No. 992,212; May 16; Sp. p. 2925; Gaz. vol. 166; p. 544.
Skidder-raising device. W. C. Carlton and J. H. Miner. No. 986,440; Mar. 14; Sp. p. 1450; Gaz. vol. 164; p. 262.
Skillet. E. A. Hudson. No. 993,169; May 23; Sp. p. 5018; Gaz. vol. 166; p. 906.
Skimmer, Boiler-. B. E. Foss. No. 987,710; Mar. 28; Sp. p. 4125; Gaz. vol. 164; p. 755.
Skimmer, Syrup-. A. J. Harden. No. 995,536; June 20; Sp. p. 3136; Gaz. vol. 167; p. 558.
Skimmer, Syrup-. R. O. Eagle. No. 996,472; June 27; Sp. p. 5231; Gaz. vol. 167; p. 917.
Skin-carroting machine. L. Beaulieu. No. 986,126; Mar. 7; Sp. p. 776; Gaz. vol. 164; p. 126.
Skin-cleaner. W. H. Chellis. No. 996,974; July 4; Sp. p. 785; Gaz. vol. 168; p. 129.
Skin-cleanser. A. I. Saphiloff. No. 1,011,498; Dec. 12; Sp. p. 2468; Gaz. vol. 173; p. 421.
Skinning-tool. S. M. Moen. No. 1,006,970; Oct. 24; Sp. p. 5312; Gaz. vol. 171; p. 933.
Skip, Self-discharging. A. Gibb and T. G. Menzies. No. 1,006,931; Oct. 24; Sp. p. 5238; Gaz. vol. 171; p. 921.
Skips or other vehicles in mine-shafts and the like, Means for loading. J. Whitford and J. A. Mills. No. 1,001,106; Aug. 22; Sp. p. 4133; Gaz. vol. 169; p. 757.
Skipping appliance and physical-exercising device. S. C. Caddy. No. 1,010,015; Nov. 28; Sp. p. 5251; Gaz. vol. 172; p. 941.
Skirmish-machine. A. M. McSweeney. No. 1,002,169; Aug. 29; Sp. p. 6312; Gaz. vol. 169; p. 1141.
Skirt. M. E. Kelsey. No. 988,350; Apr. 4; Sp. p. 124; Gaz. vol. 165; p. 22.
Skirt. W. Padernacht. (Reissue.) No. 13,238; May 9; Sp. p. 2763; Gaz. vol. 166; p. 490.
Skirt. A. Goldberg. No. 1,003,734; Sept. 19; Sp. p. 3381; Gaz. vol. 170; p. 603.
Skirt and hose supporter. M. E. Larrabee. No. 996,352; June 27; Sp. p. 4969; Gaz. vol. 167; p. 875.
Skirt and skirt attachment. J. A. Herman. No. 1,007,692; Nov. 7; Sp. p. 86; Gaz. vol. 172; p. 14.
Skirt-gage. E. Nielsen. No. 1,001,159; Aug. 22; Sp. p. 4222; Gaz. vol. 169; p. 773.
Skirt-gage. S. K. Wilson. No. 1,001,495; Aug. 22; Sp. p. 4899; Gaz. vol. 169; p. 885.
Skirt-gage. L. J. Davis. No. 1,003,239; Sept. 12; Sp. p. 2327; Gaz. vol. 170; p. 399.
Skirt-gage and hem-regulator. S. M. Griffith. No. 1,002,581; Sept. 5; Sp. p. 896; Gaz. vol. 170; p. 132.
Skirt-marker. L. Z. Kramer. No. 980,800; Jan. 3; Sp. p. 1326; Gaz. vol. 162; p. 213.
Skirt-marker. A. Seeling. No. 985,070; Feb. 21; Sp. p. 3877; Gaz. vol. 163; p. 684.
Skirt-marker. M. Buchsbaum. No. 985,508; Feb. 28; Sp. p. 4902; Gaz. vol. 163; p. 869.
Skirt-marker. R. Sideman. No. 987,327; Mar. 21; Sp. p. 3319; Gaz. vol. 164; p. 596.
Skirt-marker. J. Zelman. No. 989,470; Apr. 11; Sp. p. 2486; Gaz. vol. 165; p. 421.
Skirt-marker. S. T. Day. No. 993,226; May 23; Sp. p. 5125; Gaz. vol. 166; p. 923.
Skirt-marker. M. C. Johnson. No. 1,001,275; Aug. 22; Sp. p. 4460; Gaz. vol. 169; p. 810.
Skirt-marker. A. S. Wegusen. No. 1,004,120; Sept. 26; Sp. p. 4295; Gaz. vol. 170; p. 764.
Skirt-marker. C. M. B. Tiller. No. 1,007,903; Nov. 7; Sp. p. 581; Gaz. vol. 172; p. 90.
Skirt-marker. F. H. Deknatel and C. J. Spruce. No. 1,008,312; Nov. 14; Sp. p. 1488; Gaz. vol. 172; p. 273.
Skirt-marker. C. A. Rittman. No. 1,009,693; Nov. 21; Sp. p. 4556; Gaz. vol. 172; p. 786.
Skirt marker and trimmer. C. S. Williams. No. 980,381; Jan. 3; Sp. p. 413; Gaz. vol. 162; p. 72.
Skirt-marking device. F. B. Davenport. No. 1,007,431; Oct. 31; Sp. p. 6334; Gaz. vol. 171; p. 1150.
Skirt, Maternity-. R. M. Dietz. No. 1,000,155; Aug. 8; Sp. p. 1992; Gaz. vol. 169; p. 357.
Skirt, Maternity-. W. O. Schumacher. No. 1,006,800; Oct. 24; Sp. p. 4940; Gaz. vol. 171; p. 874.
Skirt or similar garment. A. M. Schneider. No. 1,009,262; Nov. 21; Sp. p. 3659; Gaz. vol. 172; p. 638.
Skirt-pattern. J. Blackburn. No. 985,971; Mar. 7; Sp. p. 462; Gaz. vol. 164; p. 74.
Skirt, Rain-. L. F. Suddick. No. 999,132; July 25; Sp. p. 5531; Gaz. vol. 168; p. 983.
Skirt-supporter. C. J. Shippen. No. 986,769; Mar. 14; Sp. p. 2150; Gaz. vol. 164; p. 374.
Skirt-supporter. C. J. Shippen. No. 987,091; Mar. 14; Sp. p. 2775; Gaz. vol. 164; p. 480.
Skiving-machine. F. L. Alley and W. Peck. No. 996,744; July 4; Sp. p. 286; Gaz. vol. 168; p. 50.
Skiving-machine. J. H. Pope. No. 1,001,073; Aug. 22; Sp. p. 4062; Gaz. vol. 169; p. 746.
Skiving-machine. P. R. Glass. No. 1,012,350; Dec. 19; Sp. p. 4381; Gaz. vol. 173; p. 750.
Skull-cutter. F. Holt. No. 983,368; Feb. 7; Sp. p. 242; Gaz. vol. 163; p. 41.
Skylight. B. Storch. No. 981,813; Jan. 17; Sp. p. 3654; Gaz. vol. 162; p. 618.
Skylight. A. H. Jeter. No. 1,001,646; Aug. 29; Sp. p. 5210; Gaz. vol. 169; p. 966.
Skylight. B. Goldman. No. 1,009,502; Nov. 21; Sp. p. 4206; Gaz. vol. 172; p. 723.
Skylight construction. J. D. Thompson. No. 1,004,938; Oct. 3; Sp. p. 841; Gaz. vol. 171; p. 137.
Skylight-lifter. W. F. O'Rourke. No. 1,002,926; Sept. 12; Sp. p. 1683; Gaz. vol. 170; p. 290.
Skylights, Cellular sun-ray intercepter for. J. W. Hutton. No. 994,924; June 13; Sp. p. 1841; Gaz. vol. 167; p. 324
Slab-milling cutter. S. MacKay. No. 994,264; June [illegible]; Sp. p. 334; Gaz. vol. 167; p. 57.
Slab or block composed of cement and wire-netting. S. von Medveczky. No. 980,982; Jan. 10; Sp. p. 1842; Gaz. vol. 162; p. 307.
Slabs, Making reinforcement units for. F. L. Metzger. No. 1,005,267; Oct. 10; Sp. p. 1513; Gaz. vol. 171; p. 274.
Slack-adjuster. T. J. Madden and J. M. Koehler. No. 982,616; Jan. 24; Sp. p. 5361; Gaz. vol. 162; p. 924.

Alphabetical list of inventions—Continued.

Slack-adjuster, Automatic. C. Schenck. No. 996,284; June 27; Sp. p. 4802; Gaz. vol. 167; p. 851.
Slack-controlling device. D. B. Whitehill. No. 998,436; July 18; Sp. p. 3999; Gaz. vol. 168; p. 709.
Slag, Apparatus for atomizing liquid. G. Jantzen. No. 982,964; Jan. 31; Sp. p. 6118; Gaz. vol. 162; p. 1069.
Slag, Granulating. A. Seghers. No. 1,008,204; Nov. 7; Sp. p. 1191; Gaz. vol. 172; p. 195.
Slag, Granulating molten. H. Colloseus. No. 980,606; Jan. 3; Sp. p. 927; Gaz. vol. 162; p. 150.
Slag, Process and apparatus for puffing blast-furnace. H. Ottmann. No. 1,003,406; Sept. 12; Sp. p. 2649; Gaz. vol. 170; p. 456.
Slasher. W. S. Pepperell. No. 985,543; Feb. 28; Sp. p. 4979; Gaz. vol. 163; p. 881.
Slat-clamp. W. B. Gould. No. 1,001,841; Aug. 29; Sp. p. 5645; Gaz. vol. 169; p. 1034.
Sled. J. O. Nelson. No. 989,395; Apr. 11; Sp. p. 2341; Gaz. vol. 165; p. 396.
Sled. J. Anderson. No. 1,001,498; Aug. 22; Sp. p. 4903; Gaz. vol. 169; p. 886.
Sled. F. Hornquist. No. 1,003,360; Sept. 12; Sp. p. 2567; Gaz. vol. 170; p. 442.
Sled. W. Knÿ. No. 1,007,361; Oct. 31; Sp. p. 6174; Gaz. vol. 171; p. 1125.
Sled and wagon, Combination. C. Heidenheimer. No. 984,914; Feb. 21; Sp. p. 3578; Gaz. vol. 163; p. 631.
Sled attachment for vehicles. C. F. Blodgett. No. 993,018; May 23; Sp. p. 4699; Gaz. vol. 166; p. 856.
Sled, Automobile. V. Grover. No. 999,160; July 25; Sp. p. 5577; Gaz. vol. 168; p. 992.
Sled, Bob-. J., A., and E. Schruth and W. Engel. No. 1,010,395; Nov. 28; Sp. p. 6019; Gaz. vol. 172; p. 1067.
Sled, Bob-. A. Gunderson. No. 1,011,615; Dec. 12; Sp. p. 2765; Gaz. vol. 173; p. 463.
Sled, Bob-. N. Halvorsen. No. 1,012,544; Dec. 19; Sp. p. 4747; Gaz. vol. 173; p. 815.
Sled brake and guide. S. Seyerson. No. 987,681; Mar. 21; Sp. p. 4055; Gaz. vol. 164; p. 718.
Sled, Coasting-. C. T. Rogers. No. 993,622; May 30; Sp. p. 5999; Gaz. vol. 166; p. 1091.
Sled, Folding or collapsible. W. H. Coleman. No. 980,604; Jan. 3; Sp. p. 923; Gaz. vol. 162; p. 149.
Sled-propeller. A. Francescatti. No. 997,385; July 11; Sp. p. 1652; Gaz. vol. 168; p. 299.
Sled-runner. A. Wagner. No. 988,679; Apr. 4; Sp. p. 833; Gaz. vol. 165; p. 134.
Sled, Self-propelled. N. Yach. No. 1,001,113; Aug. 22; Sp. p. 4149; Gaz. vol. 169; p. 759.
Sleeping-bag. E. H. Fitch. No. 983,223; Jan. 31; Sp. p. 6650; Gaz. vol. 162; p. 1156.
Sleeping-compartment, Open-air. J. Phillips. No. 980,433; Jan. 3; Sp. p. 530; Gaz. vol. 162; p. 89.
Sleeve-board support. T. O. Troth. No. 1,006,027; Oct. 17; Sp. p. 3191; Gaz. vol. 171; p. 573.
Sleeve, Garment-. S. Karp. No. 1,012,648; Dec. 26; Sp. p. 4990; Gaz. vol. 173; p. 896.
Sleeve-holding device. G. C. Kunz. No. 1,003,472; Sept. 19; Sp. p. 2798; Gaz. vol. 170; p. 512.
Sleigh and bob-sled runner. B. M. Wentworth. No. 999,931; Aug. 8; Sp. p. 1478; Gaz. vol. 169; p. 280.
Sleigh attachment. J. E. Baldwin. No. 1,004,722; Oct. 3; Sp. p. 383; Gaz. vol. 171; p. 63.
Sleigh, Automobile. A. Finkelstein. No. 1,008,409; Nov. 14; Sp. p. 1763; Gaz. vol. 172; p. 307.
Sleigh, Automobile. E. W. Gosline. No. 1,012,627; Dec. 26; Sp. p. 4946; Gaz. vol. 173; p. 889.
Sleigh-bob. A. E. Hafer. No. 999,778; Aug. 8; Sp. p. 1153; Gaz. vol. 169; p. 228.
Sleigh, Box-. F. C. Simon. No. 1,007,497; Oct. 31; Sp. p. 6477; Gaz. vol. 171; p. 1172.
Sleigh-brake. E. M. Lamora. No. 983,376; Feb. 7; Sp. p. 258; Gaz. vol. 163; p. 41.
Sleigh-knee. F. A. Stenborg. No. 980,448; Jan. 3; Sp. p. 573; Gaz. vol. 162; p. 95.
Sleigh-knee. F. P. Moritz. No. 983,390; Feb. 7; Sp. p. 287; Gaz. vol. 163; p. 48.
Sleigh-knee. G. H. Genrich. No. 987,713; Mar. 28; Sp. p. 4134; Gaz. vol. 164; p. 756.
Sleigh-knee. A. F. Winkler. No. 1,011,099; Dec. 5; Sp. p. 1537; Gaz. vol. 173; p. 243.
Sleigh, Motor-. H. Guttormson and H. Hast. No. 987,573; Mar. 21; Sp. p. 3809; Gaz. vol. 164; p. 679.
Sleigh, Motor-. D. F. Hirschkorn. No. 988,343; Apr. 4; Sp. p. 107; Gaz. vol. 165; p. 20.
Sleigh-runner. K. Jones. No. 1,000,092; Aug. 8; Sp. p. 1858; Gaz. vol. 169; p. 336.
Sleigh-runner for vehicles, Removable. J. Walters. No. 1,005,379; Oct. 10; Sp. p. 1761; Gaz. vol. 171; p. 314.
Slicer. J. Heeley. No. 992,559; May 16; Sp. p. 3726; Gaz. vol. 166; p. 667.
Slicer, Cheese-. J. Blain. No. 1,005,128; Oct. 10; Sp. p. 1184; Gaz. vol. 171; p. 223.
Slicer, Fruit and vegetable. T. O'Day. No. 1,007,135; Oct. 31; Sp. p. 5699; Gaz. vol. 171; p. 1045.
Slicer, Meat-. J. H. Osborne. No. 1,001,768; Aug. 29; Sp. p. 5490; Gaz. vol. 169; p. 1009.
Slicer, Vegetable-. J. W. Moore. No. 1,007,593; Oct. 31; Sp. p. 6688; Gaz. vol. 171; p. 1204.
Slicing-machine. W. M. Knowles. No. 1,008,275; Nov. 7; Sp. p. 1358; Gaz. vol. 172; p. 222.
Slicing-machine. E. A. Hand. No. 1,012,200; Dec. 19; Sp. p. 4067; Gaz. vol. 173; p. 695.
Slicing machine, Fruit-. N. K. Smythe. No. 995,491; June 20; Sp. p. 3043; Gaz. vol. 167; p. 542.
Slicing machines, Meat-support for meat-. W. A. Van Berkel. No. 1,007,991; Nov. 7; Sp. p. 755; Gaz. vol. 172; p. 119.
Slide-bolt. F. Neblung. No. 995,279; June 13; Sp. p. 2548; Gaz. vol. 167; p. 441.
Slide-brake, Safety. C. Corbeau, Jr. No. 990,473; Apr. 25; Sp. p. 4723; Gaz. vol. 165; p. 830.
Slide-carrier. J. Proudfoot. No. 994,087; May 30; Sp. p. 6963; Gaz. vol. 166; p. 1249.
Slide-changer. A. C. Roebuck. No. 998,305; July 18; Sp. p. 3729; Gaz. vol. 168; p. 664.
Sliding-catch lock. P. Nitzsche. No. 1,001,217; Aug. 22; Sp. p. 4346; Gaz. vol. 169; p. 791.
Sliding gate. V. C. Martin. No. 999,119; July 25; Sp. p. 5499; Gaz. vol. 168; p. 979.
Sliding gate. J. E. Swain. No. 1,012,478; Dec. 19; Sp. p. 4616; Gaz. vol. 173; p. 791.
Sliding-pole-opening guard. E. C. Delene. No. 982,481; Jan. 24; Sp. p. 5102; Gaz. vol. 162; p. 880.
Slime-concentrator. W. F. Deister. No. 1,010,350; Nov. 28; Sp. p. 5915; Gaz. vol. 172; p. 1053.
Slimer, Spiral. J. W. Pinder. No. 995,089; June 13; Sp. p. 2187; Gaz. vol. 167; p. 379.
Sling-lock. H. P. Hanson. No. 987,875; Mar. 28; Sp. p. 4472; Gaz. vol. 164; p. 812.
Slip-inserting mechanism. F. M. Peters and H. H. Hungerford. No. 989,797; Apr. 18; Sp. p. 3236; Gaz. vol. 165; p. 566.
Slip-socket. L. E. Nebergall. No. 988,489; Apr. 4; Sp. p. 422; Gaz. vol. 165; p. 69.
Slip-socket. P. C. Speer. No. 991,176; May 2; Sp. p. 742; Gaz. vol. 166; p. 125.
Slitter and rewinder. S. M. Langston. No. 1,009,757; Nov. 28; Sp. p. 4711; Gaz. vol. 172; p. 854.
Slot-machine. C. T. McGill. No. 993,860; May 30; Sp. p. 6510; Gaz. vol. 166; p. 1173.
Slotting-machine. F. M. Leavitt. No. 996,353; June 27; Sp. p. 4970; Gaz. vol. 167; p. 875.
Slubbing or roving frame. J. D. Irving. No. 1,009,524; Nov. 21; Sp. p. 4246; Gaz. vol. 172; p. 731.
Slug-catcher. I. Ward. No. 992,303; May 16; Sp. p. 3169; Gaz. vol. 166; p. 576.
Slug or type casting machines, Feeding attachment for. J. G. Rauch. No. 987,489; Mar. 21; Sp. p. 3654; Gaz. vol. 164; p. 651.
Slugging-machine. W. Heaton. No. 1,005,031; Oct. 3; Sp. p. 1007; Gaz. vol. 171; p. 168.
Sluice-gate. F. B. Leopold. No. 983,297; Feb. 7; Sp. p. 83; Gaz. vol. 163; p. 16.
Slurry, wood-pulp, &c., Feeder for. R. W. E. Leach. No. 999,321; Aug. 1; Sp. p. 243; Gaz. vol. 169; p. 45.
Slush-feeding apparatus. J. C. Diebold. No. 988,177; Mar. 28; Sp. p. 5150; Gaz. vol. 164; p. 913.
Small-arm. P. Mauser. No. 987,584; Mar. 21; Sp. p. 3831; Gaz. vol. 164; p. 683.
Small-arm. P. Mauser. No. 1,008,552; Nov. 14; Sp. p. 2087; Gaz. vol. 172; p. 357.
Small-arm, Automatic. J. Eastwick. No. 991,962; May 9; Sp. p. 2407; Gaz. vol. 166; p. 428.
Small-arm, Automatic. A. L. Chevallier and J. Eastwick. No. 1,001,250; Aug. 22; Sp. p. 4407; Gaz. vol. 169; p. 801.
Small-arm, Automatic repeating, sporting, and other. G. Fritsch and M. Brundelius. No. 1,003,248; Sept. 12; Sp. p. 2343; Gaz. vol. 170; p. 402.
Small-arm, Drop-down. W. Baker. No. 1,002,798; Sept. 5; Sp. p. 1362; Gaz. vol. 170; p. 207.
Small-arms and ordnance, Sights for. J. T. Peddie. No. 1,012,426; Dec. 19; Sp. p. 4524; Gaz. vol. 173; p. 774.
Small-arms, Practice apparatus for. H. B. Hollifield. No. 1,008,337; Nov. 14; Sp. p. 1536; Gaz. vol. 172; p. 281.
Small-arms, Safety device for grenades projecting from. F. Deubler. No. 980,215; Jan. 3; Sp. p. 79; Gaz. vol. 162; p. 15.
Small-arms with one or several locks, Automatic safety device for. J. Tambour. No. 992,082; May 9; Sp. p. 2628; Gaz. vol. 166; p. 468.
Smelter fume products, Refining. A. Roy. No. 996,146; June 27; Sp. p. 4452; Gaz. vol. 167; p. 805.
Smelting. J. W. Nesmith. No. 995,366; June 13; Sp. p. 2762; Gaz. vol. 167; p. 471.
Smelting and refining apparatus, Electric. J. H. Reid. No. 993,105; May 23; Sp. p. 4892; Gaz. vol. 166; p. 887.
Smelting apparatus, Ore-. J. W. Nesmith. No. 995,365; June 13; Sp. p. 2760; Gaz. vol. 167; p. 471.
Smelting-furnace. C. W. Munson. No. 983,833; Feb. 7; Sp. p. 1242; Gaz. vol. 163; p. 198.
Smelting-furnace, Electric. E. R. Taylor. No. 985,226; Feb. 28; Sp. p. 4265; Gaz. vol. 163; p. 772.
Smelting-furnace, Electric induction. K. A. F. Hiorth. No. 980,259; Jan. 3; Sp. p. 151; Gaz. vol. 162; p. 30.
Smelting ores yielding a volatile metal, Apparatus for. W. M. Johnson. (Reissue.) No. 13,208; Feb. 14; Sp. p. 2762; Gaz. vol. 163; p. 463.
Smelting process and apparatus therefor. R. Fleming. No. 981,850; Jan. 17; Sp. p. 3729; Gaz. vol. 162; p. 631.

Alphabetical list of inventions—Continued.

Smoke and spark destroyer. A. Lawrence. No. 1,008,163; Nov. 7; Sp. p. 1094; Gaz. vol. 172; p. 179.
Smoke and ventilation shaft, Combined. F. Schofer. No. 995,097; June 13; Sp. p. 2200; Gaz. vol. 167; p. 382.
Smoke-bell support. F. H. Watson. No. 989,090; Apr. 11; Sp. p. 1684; Gaz. vol. 165; p. 293.
Smoke-bell support. A. Festa. No. 994,449; June 6; Sp. p. 713; Gaz. vol. 167; p. 122.
Smoke-cap. J. Pole, F. Witting, and F. Freyberg. No. 1,005,748; Oct. 10; Sp. p. 2574; Gaz. vol. 171; p. 443.
Smoke-cleaning device. M. Favella. No. 1,010,068; Nov. 28; Sp. p. 5355; Gaz. vol. 172; p. 960.
Smoke-consumer. A. G. Krieg. No. 982,970; Jan. 31; Sp. p. 6129; Gaz. vol. 162; p. 1071.
Smoke-consumer. C. D. Leonard. No. 983,503; Feb. 7; Sp. p. 529; Gaz. vol. 163; p. 84.
Smoke-consumer. G. Bromm. No. 993,148; May 23; Sp. p. 4976; Gaz. vol. 166; p. 900.
Smoke-consumer. F. A. Schrump. No. 999,344; Aug. 1; Sp. p. 286; Gaz. vol. 169; p. 53.
Smoke-consumer. H. B. Rowe. No. 1,010,807; Dec. 5; Sp. p. 903; Gaz. vol. 173; p. 142.
Smoke-consumer for furnaces. A. F. Divok. No. 984,360; Feb. 14; Sp. p. 2396; Gaz. vol. 163; p. 405.
Smoke-consumer for locomotives. W. S. Wait. No. 1,012,484; Dec. 19; Sp. p. 4625; Gaz. vol. 173; p. 793.
Smoke-consumer for low-pressure boilers. A. G. Krieg. No. 988,358; Apr. 4; Sp. p. 134; Gaz. vol. 165; p. 25.
Smoke-consuming and fuel-economizing apparatus. W. Hoy and J. Downes. No. 991,992; May 9; Sp. p. 2467; Gaz. vol. 166; p. 438.
Smoke-consuming device. B. C. Oblinger. No. 996,665; July 4; Sp. p. 140; Gaz. vol. 168; p. 25.
Smoke-consuming furnace. J. W. McNeal. No. 983,510; Feb. 7; Sp. p. 542; Gaz. vol. 163; p. 87.
Smoke-consuming furnace. W. E. Sudlow and H. J. White. No. 984,979; Feb. 21; Sp. p. 3692; Gaz. vol. 163; p. 652.
Smoke-consuming furnace. P. J. Kraetsch. No. 991,326; May 2; Sp. p. 1076; Gaz. vol. 166; p. 179.
Smoke-consuming furnace. B. F. Brady. No. 995,765; June 20; Sp. p. 3657; Gaz. vol. 167; p. 639.
Smoke-consuming furnace. O. D. Orvis. No. 1,000,191; Aug. 8; Sp. p. 2076; Gaz. vol. 169; p. 369.
Smoke-consuming furnace. J. F. Nieser. No. 1,000,751; Aug. 15; Sp. p. 3312; Gaz. vol. 169; p. 598.
Smoke-consuming furnace. T. B. Hulse. No. 1,008,154; Nov. 7; Sp. p. 1077; Gaz. vol. 172; p. 176.
Smoke-conveyer. J. T. Harper. No. 990,044; Apr. 18; Sp. p. 3759; Gaz. vol. 165; p. 650.
Smoke, gases, &c., Apparatus for collecting. J. W. Lang. No. 999,114; July 25; Sp. p. 5492; Gaz. vol. 168; p. 978.
Smoke-indicator. T. W. McNeill and I. J. Babcock. No. 1,012,403; Dec. 19; Sp. p. 4477; Gaz. vol. 173; p. 767.
Smoke-meter. F. W. Mann. No. 1,002,717; Sept. 5; Sp. p. 1200; Gaz. vol. 170; p. 179.
Smoke-preventer, Furnace. W. E. McGraw. No. 1,002,725; Sept. 5; Sp. p. 1226; Gaz. vol. 170; p. 182.
Smoke-preventing device. J. P. Doyle. No. 998,962; July 25; Sp. p. 5192; Gaz. vol. 168; p. 927.
Smoke-preventing furnace. J. N. McKee. No. 990,368; Apr. 25; Sp. p. 4477; Gaz. vol. 165; p. 792.
Smoke-separator. H. V. P. Nielsen. No. 1,009,779; Nov. 28; Sp. p. 4755; Gaz. vol. 172; p. 861.
Smoke-shells, Adjustable support for. A. Hoyer. No. 996,717; July 4; Sp. p. 243; Gaz. vol. 168; p. 42.
Smoke-tube boiler. J. Stollerz. No. 1,011,658; Dec. 12; Sp. p. 2866; Gaz. vol. 173; p. 478.
Smoke-washer, Smelter. W. G. Bulgin. No. 1,011,025; Dec. 5; Sp. p. 1364; Gaz. vol. 173; p. 217.
Smokers' articles, Mouthpiece for. E. F. Moerder. No. 995,799; June 20; Sp. p. 3739; Gaz. vol. 167; p. 651.
Smoker's implement. H. E. Hess. No. 1,011,955; Dec. 19; Sp. p. 3500; Gaz. vol. 173; p. 613.
Smoker's pouch, Cigarette-. T. C. Naramore and C. J. Barnwell. No. 982,292; Jan. 24; Sp. p. 4698; Gaz. vol. 162; p. 812.
Smoking-pipe. T. N. Wrenn. No. 980,583; Jan. 3; Sp. p. 882; Gaz. vol. 162; p. 142.
Smoking-pipe. D. W. Flynn. No. 1,009,495; Nov. 21; Sp. p. 4189; Gaz. vol. 172; p. 721.
Smoking-pipe. J. L. Prunty. No. 1,010,951; Dec. 5; Sp. p. 1221; Gaz. vol. 173; p. 193.
Smoking-pipe. M. Rasmussen. No. 1,010,955; Dec. 5; Sp. p. 1227; Gaz. vol. 173; p. 194.
Smoking-pipe. B. Mahn. No. 1,011,633; Dec. 12; Sp. p. 2817; Gaz. vol. 173; p. 469.
Smoking-tube. E. T. Scanlan. No. 999,342; Aug. 1; Sp. p. 284; Gaz. vol. 169; p. 53.
Smoothing device. A. Hofheimer. No. 997,295; July 11; Sp. p. 1480; Gaz. vol. 168; p. 270.
Smoothing-iron. T. G. Thomas. No. 1,010,092; Nov. 28; Sp. p. 5402; Gaz. vol. 172; p. 968.
Smoothing-iron, Portable. A. E. Hollingshead. No. 1,004,571; Oct. 3; Sp. p. 51; Gaz. vol. 171; p. 10.
Smoothing-iron with removable handle. H. Briandet. No. 1,003,397; Sept. 12; Sp. p. 2633; Gaz. vol. 170; p. 453.
Smut-machine. J. A. Stensrud. No. 984,613; Feb. 21; Sp. p. 2965; Gaz. vol. 163; p. 526.
Snap. H. Y. Armstrong. No. 998,943; July 25; Sp. p. 5153; Gaz. vol. 168; p. 920.
Snap. O. J. W. Higbee. No. 1,004,260; Sept. 26; Sp. p. 4592; Gaz. vol. 170; p. 812.
Snap-bolls, Apparatus for treating. J. A. Shields. No. 994,609; June 6; Sp. p. 1053; Gaz. vol. 167; p. 175.
Snap contact. R. W. Magna. No. 981,933; Jan. 17; Sp. p. 3955; Gaz. vol. 162; p. 661.
Snap-flask, Hingeless. H. J. and T. H. Graf. No. 980,511; Jan. 3; Sp. p. 737; Gaz. vol. 162; p. 118.
Snap-hook. F. E. Schartow. No. 983,404; Feb. 7; Sp. p. 311; Gaz. vol. 163; p. 53.
Snap-hook. H. E. Coble. No. 990,526; Apr. 25; Sp. p. 4864; Gaz. vol. 165; p. 849.
Snap-hook. L. L. and H. Zimmer. No. 995,313; June 13; Sp. p. 2605; Gaz. vol. 167; p. 451.
Snap-hook. J. W. Mast. No. 1,005,257; Oct. 10; Sp. p. 1486; Gaz. vol. 171; p. 270.
Snap-hook. M. Lau. No. 1,007,213; Oct. 31; Sp. p. 5876; Gaz. vol. 171; p. 1073.
Snap-hook. J. Barry. No. 1,009,631; Nov. 21; Sp. p. 4438; Gaz. vol. 172; p. 765.
Snap-switch. J. A. York. No. 981,734; Jan. 17; Sp. p. 3479; Gaz. vol. 162; p. 589.
Snap-switch. C. J. Klein. No. 985,421; Feb. 28; Sp. p. 4692; Gaz. vol. 163; p. 837.
Snap-switch. C. J. Klein. No. 987,239; Mar. 21; Sp. p. 3126; Gaz. vol. 164; p. 566.
Snap-switch. C. J. Klein. No. 987,240; Mar. 21; Sp. p. 3129; Gaz. vol. 164; p. 566.
Snap-switch. C. J. Klein. No. 987,241; Mar. 21; Sp. p. 3132; Gaz. vol. 164; p. 566.
Snap-switch. C. J. Klein. No. 987,306; Mar. 21; Sp. p. 3281; Gaz. vol. 164; p. 589.
Snap-switch. S. Korf. No. 987,581; Mar. 21; Sp. p. 3827; Gaz. vol. 164; p. 682.
Snap-switch. C. J. Klein. No. 987,632; Mar. 21; Sp. p. 3925; Gaz. vol. 164; p. 699.
Snap-switch. I. Larsen. No. 994,011; May 30; Sp. p. 6816; Gaz. vol. 166; p. 1223.
Snap-switch. A. S. Cubitt. No. 1,011,754; Dec. 12; Sp. p. 3044; Gaz. vol. 173; p. 509.
Snap-switch, Electric. J. G. Peterson. No. 1,009,172; Nov. 21; Sp. p. 3417; Gaz. vol. 172; p. 604.
Snap-switch, Pendant. R. E. Leve. No. 989,618; Apr. 18; Sp. p. 2849; Gaz. vol. 165; p. 504.
Snap-switch, Rotary. G. B. Thomas. No. 982,549; Jan. 24; Sp. p. 5236; Gaz. vol. 162; p. 903.
Snap-switch, Rotary. S. Korf. No. 997,563; July 11; Sp. p. 1999; Gaz. vol. 168; p. 357.
Snap-switch, Rotary. S. Korf and R. Witz. No. 997,564; July 11; Sp. p. 2001; Gaz. vol. 168; p. 357.
Snap-switch with inclosed fuse. F. C. De Reamer. No. 993,968; May 30; Sp. p. 6713; Gaz. vol. 166; p. 1208.
Snare-strainer. C. B. Wanamaker. No. 1,011,533; Dec. 12; Sp. p. 2555; Gaz. vol. 173; p. 432.
Snatch-block. C. W. Russell. No. 991,649; May 9; Sp. p. 1768; Gaz. vol. 166; p. 324.
Snatch-block. E. Christensen. No. 1,010,018; Nov. 28; Sp. p. 5256; Gaz. vol. 172; p. 942.
Snow and the like melting apparatus. O. A. Ringbom. No. 982,531; Jan. 24; Sp. p. 5205; Gaz. vol. 162; p. 897.
Snow-cleaner for car-tracks. J. M. Moorhouse. No. 1,007,594; Oct. 31; Sp. p. 6689; Gaz. vol. 171; p. 1204.
Snow collecting and melting machine. H. Petersen. No. 993,400; May 30; Sp. p. 5505; Gaz. vol. 166; p. 1014.
Snow-destroyer. P. D. Riordan. No. 980,564; Jan. 3; Sp. p. 841; Gaz. vol. 162; p. 136.
Snow disposal. C. Evans, Jr. No. 995,446; June 20; Sp. p. 2944; Gaz. vol. 167; p. 525.
Snow-melter. W. J. Saxon. No. 986,946; Mar. 14; Sp. p. 2520; Gaz. vol. 164; p. 435.
Snow-melter. C. Eberstaller. No. 994,579; June 6; Sp. p. 993; Gaz. vol. 167; p. 165.
Snow-melter for manholes or sewer-pipes. T. McGill. No. 980,314; Jan. 3; Sp. p. 256; Gaz. vol. 162; p. 48.
Snow-melting apparatus. G. P. Van Wye. No. 1,004,113; Sept. 26; Sp. p. 4273; Gaz. vol. 170; p. 762.
Snow-melting machine. J. Meindl. No. 980,983; Jan. 10; Sp. p. 1843; Gaz. vol. 162; p. 307.
Snow-melting machine and operating same. S. Friedman. No. 999,445; Aug. 1; Sp. p. 500; Gaz. vol. 169; p. 88.
Snow-plow. J. E. Pillionnel and L. Cherpit. No. 990,002; Apr. 18; Sp. p. 3673; Gaz. vol. 165; p. 636.
Snow-plow. J. W. Vickers. No. 993,739; May 30; Sp. p. 6270; Gaz. vol. 166; p. 1132.
Snow-plow. J. Spahn. No. 1,006,307; Oct. 17; Sp. p. 3838; Gaz. vol. 171; p. 672.
Snow-plow and rut-cutter, Combined. H. T. Burr. No. 1,005,689; Oct. 10; Sp. p. 2467; Gaz. vol. 171; p. 423.
Snow-plow, Railway. O. C. Mann. No. 1,007,365; Oct. 31; Sp. p. 6183; Gaz. vol. 171; p. 1127.
Snow-removing apparatus. L. Raschen. No. 980,332; Jan. 3; Sp. p. 301; Gaz. vol. 162; p. 54.
Snow, Road-machine for melting. C. M. Brooker. No. 987,343; Mar. 21; Sp. p. 3349; Gaz. vol. 164; p. 601.
Snow-shoe strap. T. L. Smith. No. 992,610; May 16; Sp. p. 3836; Gaz. vol. 166; p. 683.
Snow-shovel. J. C. Adam. No. 1,000,875; Aug. 15; Sp. p. 3576; Gaz. vol. 169; p. 642.
Snow-sweeper, Street and railway. A. A. Owen and S. B. Musgrave. No. 1,012,904; Dec. 26; Sp. p. 5575; Gaz. vol. 173; p. 984.

Alphabetical list of inventions—Continued.

Soap. A. Welter. No. 986,527; Mar. 14; Sp. p. 1636; Gaz. vol. 164; p. 291.
Soap, Cake of. C. H. J. Dilg and J. O. Fowler. No. 999,210; Aug. 1; Sp. p. 36; Gaz. vol. 169; p. 8.
Soap, Cake of. C. H. J. Dilg and J. O. Fowler. No. 999,211; Aug. 1; Sp. p. 38; Gaz. vol. 169; p. 9.
Soap-container. G. M. Irwin. No. 997,676; July 11; Sp. p. 2251; Gaz. vol. 168; p. 398.
Soap container, Liquid-. W. Williams. No. 984,630; Feb. 21; Sp. p 3003; Gaz. vol. 163; p. 532.
Soap container, Liquid-. L. A. Dils. No. 994,250; June 6; Sp. p. 306; Gaz. vol. 167; p. 53.
Soap dispenser, Liquid-. T. J. Dunn. No. 982,768; Jan. 24; Sp. p. 5683; Gaz. vol. 162; p. 974.
Soap-dispensing machine. G. F. Shaver. No. 983,318; Feb. 7; Sp. p. 131; Gaz. vol. 163; p. 24.
Soap-dispensing machine. G. F. Shaver. No. 983,779; Feb. 7; Sp. p. 1114; Gaz. vol. 163; p. 178.
Soap for paint, varnish, &c. C. Ellis. No. 1,000,966; Aug. 15; Sp. p. 3763; Gaz. vol. 169; p. 672.
Soap-holding device. M. W. Hendrich. No. 991,848; May 9; Sp. p. 2182; Gaz. vol. 166; p. 389.
Soap, Manufacture of resin. F. S. Havens. No. 981,647; Jan. 17; Sp. p. 3295; Gaz. vol. 162; p. 560.
Soap, Manufacturing crude-oil. O. Cassel. No. 1,007,531; Oct. 31; Sp. p. 6547; Gaz. vol. 171; p. 1184.
Soap powder, Making. C. Ellis. No. 1,007,680; Nov. 7; Sp. p. 43; Gaz. vol. 172; p. 10.
Soap reservoir, Liquid-. J. F. Rohowits. No. 984,159; Feb. 14; Sp. p. 1958; Gaz. vol. 163; p. 336.
Soap-shaving device. G. F. Shaver. No. 983,316; Feb. 7; Sp. p. 125; Gaz. vol. 163; p. 23.
Soap-shaving device. G. F. Shaver. No. 983,317; Feb. 7; Sp. p. 129; Gaz. vol. 163; p. 23.
Socket-cap. W. M. Black. No. 985,246; Feb. 28; Sp. p. 4312; Gaz. vol. 163; p. 779.
Socket-cap. C. Doescher. No. 985,252; Feb. 28; Sp. p. 4322; Gaz. vol. 163; p. 781.
Socket chain-guide, Pull-. C. D. Platt. No. 1,009,566; Nov. 21; Sp. p. 4330; Gaz. vol. 172; p. 745.
Socket-shell lock. T. A. C. Both. No. 997,598; July 11; Sp. p. 2067; Gaz. vol. 168; p. 370.
Socket-wrench. H. R. Palmer. No. 990,382; Apr. 25; Sp. p. 4517; Gaz. vol. 165; p. 797.
Sod and potato-vine cutter. R. L. Nowell. No. 988,805; Apr. 4; Sp. p. 1101; Gaz. vol. 165; p. 175.
Sod-cutter. J. Lindner. No. 997,454; July 11; Sp. p. 1772; Gaz. vol. 168; p. 322.
Sod-cutter. J. Larsen. No. 1,007,459; Oct. 31; Sp. p. 6385; Gaz. vol. 171; p. 1159.
Soda-fountain cooler. W. B. Wood and B. L. Warner. No. 999,078; July 25; Sp. p. 5439; Gaz. vol. 168; p. 967.
Soda-fountain counters, Metallic frame for. G. W. and H. A. Wise. No. 1,002,950; Sept. 12; Sp. p. 1726; Gaz. vol. 170; p. 299.
Soda, Obtaining bicarbonate of. N. Wrinkle and R. G. Paddock. No. 1,000,138; Aug. 8; Sp. p. 1958; Gaz. vol. 169; p. 352.
Soda-pulp mills, Treating waste liquors from. E. L. Rinman. No. 1,005,882; Oct. 17; Sp. p. 2878; Gaz. vol. 171; p. 522.
Soda-tank for dipping lumber. W. C. and W. H. Trout. No. 1,011,280; Dec. 12; Sp. p. 1997; Gaz. vol. 173; p. 343.
Soda-water-fountain dispensing device. G. W. Speyer. No. 992,282; May 16; Sp. p. 3114; Gaz. vol. 166; p. 567.
Soda-water straws, Machine for holding and dispensing. R. J. Woodbury. No. 987,276; Mar. 21; Sp. p. 3216; Gaz. vol. 164; p. 580.
Sodium bichromate, Making granular. R. Caspari. No. 1,003,875; Sept. 19; Sp. p. 3660; Gaz. vol. 170; p. 651.
Sodium bichromate, Manufacture of. T. J. I. Craig. No. 994,129; June 6; Sp. p. 55; Gaz. vol. 167; p. 11.
Sodium hydrosulfite, Making. J. Rosenhek, H. Mirocourt, and R. Loup. No. 990,457; Apr. 25; Sp. p. 4692; Gaz. vol. 165; p. 825.
Sodium-sulfate crystals, Dehydrating. J. Davis. No. 990,116; Apr. 18; Sp. p. 3892; Gaz. vol. 165; p. 672.
Sofa-davenport. A. C. Klopping. No. 990,146; Apr. 18; Sp. p. 3954; Gaz. vol. 165; p. 682.
Sofa-davenport. A. C. Klopping. No. 992,674; May 16; Sp. p. 3947; Gaz. vol. 166; p. 704.
Sofa or davenport bed. J. G. Curtis. No. 1,001,625; Aug. 29; Sp. p. 5173; Gaz. vol. 169; p. 959.
Soil, Machine for packing subsurface. W. M. Fulton. No. 995,592; June 20; Sp. p. 3279; Gaz. vol. 167; p. 578.
Solar heat, Apparatus for utilizing. W. L. R. Emmet. No. 980,505; Jan. 3; Sp. p. 715; Gaz. vol. 162; p. 115.
Solar-heat motor. E. H. McHenry. No. 984,585; Feb. 21; Sp. p. 2898; Gaz. vol. 163; p. 516.
Solar-heat motor. E. H. McHenry. No. 991,161; May 2; Sp. p. 714; Gaz. vol. 166; p. 121.
Solar heater. L. L. Rountree. No. 1,003,514; Sept. 19; Sp. p. 2880; Gaz. vol. 170; p. 526.
Solder. J. N. Daudelin. No. 989,573; Apr. 18; Sp. p. 2740; Gaz. vol. 165; p. 489.
Solder-applying device, Liquid-. H. K. Smith. No. 989,818; Apr. 18; Sp. p. 3280; Gaz. vol. 165; p. 573.
Solder-hemmed-cap-making machine. E. M. Cobb. No. 1,009,474; Nov. 21; Sp. p. 4136; Gaz. vol. 172; p. 714.
Solder-hemmed caps, Machine for making. E. M. Cobb. No. 983,208; Jan. 31; Sp. p. 6610; Gaz. vol. 162; p. 1150.
Solder, Machine for hemming caps or disks with. J. D. Wilson. No. 992,466; May 16; Sp. p. 3510; Gaz. vol. 166; p. 632.
Solder rings and applying the same to the edges of can-caps, Machine for cutting. W. J. Phelps. No. 1,005,298; Oct. 10; Sp. p. 1581; Gaz. vol. 171; p. 285.
Solder rings and applying the same to the edges of can-caps, Machine for cutting. W. J. Phelps. No. 1,005,299; Oct. 10; Sp. p. 1587; Gaz. vol. 171; p. 286.
Soldering apparatus. W. W. Farnsworth. No. 1,005,010; Oct. 3; Sp. p. 967; Gaz. vol. 171; p. 161.
Soldering apparatus, Chain-link-. R. Dollinger. No. 988,553; Apr. 4; Sp. p. 555; Gaz. vol. 165; p. 89.
Soldering band-saws, Device for. J. Rohrer. No. 988,820; Apr. 4; Sp. p. 1132; Gaz. vol. 165; p. 180.
Soldering device. F. S. Chapman. (Reissue.) No. 13,219; Mar. 21; Sp. p. 4061; Gaz. vol. 164; p. 719.
Soldering device. L. P. Smith and J. Cantor. No. 1,004,922; Oct. 3; Sp. p. 816; Gaz. vol. 171; p. 132.
Soldering implement. F. W. Downing. No. 981,396; Jan. 10; Sp. p. 2783; Gaz. vol. 162; p. 453.
Soldering implement. C. W. Gamble. No. 1,010,891; Dec. 5; Sp. p. 1095; Gaz. vol. 173; p. 171.
Soldering implement, Self-heating. H. E. Barber. No. 997,259; July 11; Sp. p. 1396; Gaz. vol. 168; p. 257.
Soldering-iron. N. I. Dryfoos. No. 1,010,742; Dec. 5; Sp. p. 770; Gaz. vol. 173; p. 120.
Soldering-iron, Arc. M. Danko. No. 997,044; July 4; Sp. p. 965; Gaz. vol. 168; p. 154.
Soldering-iron for soft-soldering. H. Schweitzer. No. 982,884; Jan. 31; Sp. p. 5953; Gaz. vol. 162; p. 1044.
Soldering-iron, Self-heating. A. J. Whitbeck. No. 991,122; May 2; Sp. p. 627; Gaz. vol. 166; p. 107.
Soldering-machine. J. Brenzinger. No. 980,755; Jan. 3; Sp. p. 1228; Gaz. vol. 162; p. 198.
Soldering-machine. C. W. Graham. No. 983,821; Feb. 7; Sp. p. 1192; Gaz. vol. 163; p. 192.
Soldering-machine. C. W. Graham. No. 989,249; Apr. 11; Sp. p. 2014; Gaz. vol. 165; p. 346.
Soldering-machine. A. Swan. No. 996,374; June 27; Sp. p. 5014; Gaz. vol. 167; p. 883.
Soldering-machine. J. E. Smith. No. 1,002,326; Sept. 5; Sp. p. 325; Gaz. vol. 170; p. 46.
Soldering machine, Can-. J. A. Booth. No. 1,000,369; Aug. 15; Sp. p. 2467; Gaz. vol. 169; p. 461.
Soldering-machine for soldering the end seams of round cans. M. Leitch. No. 1,002,284; Sept. 5; Sp. p. 224; Gaz. vol. 170; p. 29.
Soldering machine, Metal-plate-. H. P. A. A. Eichmann. No. 995,589; June 20; Sp. p. 3274; Gaz. vol. 167; p. 577.
Soldering machine, Tube-. J. M. Fedders. No. 985,151; Feb. 28; Sp. p. 4093; Gaz. vol. 163; p. 746.
Soldering side seams of can-bodies, Apparatus for. W. J. Phelps. No. 993,195; May 23; Sp. p. 5065; Gaz. vol. 166; p. 914.
Soldering-tool. L. L. Funk. No. 1,006,543; Oct. 24; Sp. p. 4396; Gaz. vol. 171; p. 786.
Soldering-tool. H. P. MacLagan. No. 1,008,922; Nov. 14; Sp. p. 2875; Gaz. vol. 172; p. 483.
Soldering tool, Can-. R. L. Holliday. No. 1,012,078; Dec. 19; Sp. p. 3792; Gaz. vol. 173; p. 657.
Sole clamp, Shoe-. D. C. Smith. No. 982,541; Jan. 24; Sp. p. 5219; Gaz. vol. 162; p. 900.
Sole edge brushing machine, Boot and shoe. W. C. Stewart. No. 1,005,352; Oct. 10; Sp. p. 1709; Gaz. vol. 171; p. 305.
Sole edges, Machine for operating upon boot and shoe. A. Olson. No. 993,543; May 30; Sp. p. 5822; Gaz. vol. 166; p. 1063.
Sole-finishing machine, Shoe-. G. W. Colber. No. 1,003,432; Sept. 19; Sp. p. 2714; Gaz. vol. 170; p. 498.
Sole-flexing machine. F. E. Hooper. No. 1,007,870; Nov. 7; Sp. p. 516; Gaz. vol. 172; p. 78.
Sole for footwear, Detachable metal. F. C. Sparks. No. 999,681; Aug. 1; Sp. p. 954; Gaz. vol. 169; p. 167.
Sole-leveling machine. A. Eppler. No. 996,707; July 4; Sp. p. 224; Gaz. vol. 168; p. 38.
Sole-leveling machine. A. Eppler. No. 1,004,155; Sept. 26; Sp. p. 4384; Gaz. vol. 170; p. 777.
Sole-leveling machine. E. E. Winkley. No. 1,011,301; Dec. 12; Sp. p. 2036; Gaz. vol. 173; p. 350.
Sole molding and piercing apparatus. F. Powell. No. 987,742; Mar. 28; Sp. p. 4193; Gaz. vol. 164; p. 765.
Sole-pressing machine. J. Gouldbourn. No. 982,267; Jan. 24; Sp. p. 4625; Gaz. vol. 162; p. 802.
Sole-pressing machine. W. Frasier. No. 997,798; July 11; Sp. p. 2576; Gaz. vol. 168; p. 442.
Sole-pressing machine. B. F. Mayo. No. 997,927; July 11; Sp. p. 2842; Gaz. vol. 168; p. 486.
Sole-pressing machine. A. A. Ball, Jr. No. 1,003,970; Sept. 26; Sp. p. 3905; Gaz. vol. 170; p. 711.
Sole-pressing machine. A. A. Ball, Jr. No. 1,003,971; Sept. 26; Sp. p. 3910; Gaz. vol. 170; p. 711.
Sole-pressing machine. E. N. Preble. No. 1,004,075; Sept. 26; Sp. p. 4185; Gaz. vol. 170; p. 748.
Sole-pressing machine. E. N. Preble. No. 1,004,076; Sept. 26; Sp. p. 4190; Gaz. vol. 170; p. 749.
Sole-pressing machine. A. E. Jerram. No. 1,011,349; Dec. 12; Sp. p. 2155; Gaz. vol. 173; p. 367.

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Sole-protector for boots and shoes. C. Futterknecht, J. A. Roth, and A. T. Maenche. No. 995,245; June 13; Sp. p. 2478; Gaz. vol. 167; p. 429.
Soles, Machine for operating upon. H. W. Winter. No. 1,004,614; Oct. 3; Sp. p. 143; Gaz. vol. 171; p. 25.
Soles, Machine for operating upon. F. M. Furber. No. 1,007,685; Nov. 7; Sp. p. 56; Gaz. vol. 172; p. 11.
Soles, Making. W. B. Greene. No. 1,008,640; Nov. 14; Sp. p. 2308; Gaz. vol. 172; p. 390.
Soles of shoes, Waterproofing. D. J. Murphy. No. 980,664; Jan. 3; Sp. p. 1063; Gaz. vol. 162; p. 169.
Soles, taps, &c., Machine for evening and grading. E. P. Nichols. No. 1,009,988; Nov. 28; Sp. p. 5169; Gaz. vol. 172; p. 930.
Solenoid-operated switch. H. L. Smith. No. 982,100; Jan. 17; Sp. p. 4296; Gaz. vol. 162; p. 716.
Solenoid with shunt. A. C. Eastwood. No. 1,004,860; Oct. 3; Sp. p. 679; Gaz. vol. 171; p. 111.
Solidifying crystallizable mixtures without substantial crystallization. F. I. Du Pont. No. 1,007,276; Oct. 31; Sp. p. 6000; Gaz. vol. 171; p. 1095.
Solidifying crystallizable mixtures without substantial crystallization and forming strips thereof, Apparatus for. F. I. Du Pont. No. 1,001,072; Aug. 22; Sp. p. 4059; Gaz. vol. 169; p. 745.
Solids and liquids, Apparatus for combining comminuted. E. A. Faller. No. 998,762; July 25; Sp. p. 4730; Gaz. vol. 168; p. 856.
Solids from fluid substances, Apparatus for desiccating and collecting. W. S. Osborne. No. 1,007,381; Oct. 31; Sp. p. 6219; Gaz. vol. 171; p. 1132.
Solids from liquids, Apparatus for separating. H. G. Nichols. No. 996,877; July 4; Sp. p. 573; Gaz. vol. 168; p. 95.
Solids of liquids and semiliquids, Apparatus for recovering the constituent. L. C. and I. S. Merrell and W. B. Gere. No. 1,000,931; Aug. 15; Sp. p. 3684; Gaz. vol. 169; p. 661.
Solutions, Process and apparatus for purifying. F. Tiemann. No. 997,477; July 11; Sp. p. 1816; Gaz. vol. 168; p. 328.
Solutions, Quantitative analysis of. I. F. Holmgren. No. 1,012,639; Dec. 26; Sp. p. 4974; Gaz. vol. 173; p. 894.
Solvents, Manufacture of soluble. G. and H. Nauton, G. de Marsac, and T. F. Tesse. No. 983,751; Feb. 7; Sp. p. 1059; Gaz. vol. 163; p. 169.
Soot-blower. T. E. White. No. 984,871; Feb. 21; Sp. p. 3494; Gaz. vol. 163; p. 617.
Soot-blowing apparatus. T. E. White. No. 996,180; June 27; Sp. p. 4583; Gaz. vol. 167; p. 817.
Sound-amplifier. A. Hewitt. No. 1,004,256; Sept. 26; Sp. p. 4584; Gaz. vol. 170; p. 810.
Sound-box. J. A. Williams. No. 987,205; Mar. 21; Sp. p. 3060; Gaz. vol. 164; p. 555.
Sound-box. J. C. English. No. 1,001,746; Aug. 29; Sp. p. 5440; Gaz. vol. 169; p. 1002.
Sound-distributing horn. W. S. Cobb. No. 986,908; Mar. 14; Sp. p. 2448; Gaz. vol. 164; p. 423.
Sound effects for theatrical and like purposes, Apparatus for producing various. A. H. Moorhouse. No. 1,004,060; Sept. 26; Sp. p. 4131; Gaz. vol. 170; p. 742.
Sound-producing device. M. Weiss. No. 985,310; Feb. 28; Sp. p. 4450; Gaz. vol. 163; p. 800.
Sound-producing device, Electrical. E. E. Clement. No. 1,002,036; Aug. 29; Sp. p. 6076; Gaz. vol. 169; p. 1098.
Sound-receiving device. S. M. Davison. No. 1,002,567; Sept. 5; Sp. p. 866; Gaz. vol. 170; p. 128.
Sound-receiving device. S. M. Davison. No. 1,002,903; Sept. 12; Sp. p. 1630; Gaz. vol. 170; p. 282.
Sound recording and reproducing instrument. J. Morton. No. 992,029; May 9; Sp. p. 2529; Gaz. vol. 166; p. 450.
Sound recording and reproducing instrument. R. Forrest. No. 1,001,748; Aug. 29; Sp. p. 5445; Gaz. vol. 169; p. 1003.
Sound recording and reproducing machine. J. Harris. No. 989,707; Apr. 18; Sp. p. 3030; Gaz. vol. 165; p. 533.
Sound recording and reproducing machine. D. H. Haywood. No. 995,347; June 13; Sp. p. 2711; Gaz. vol. 167; p. 464.
Sound recording and reproducing machine. G. Jungren. No. 995,680; June 20; Sp. p. 3458; Gaz. vol. 167; p. 609.
Sound recording and reproducing machines, Speed-regulating device for. G. Oulton, C. Ablett, and W. E. Lightfoot. No. 1,003,940; Sept. 19; Sp. p. 3839; Gaz. vol. 170; p. 673.
Sound recording and reproducing machines, Stylus or needle for. J. Jetter. No. 983,061; Jan. 31; Sp. p. 6346; Gaz. vol. 162; p. 1103.
Sound-recording apparatus. J. Noll. No. 993,542; May 30; Sp. p. 5818; Gaz. vol. 166; p. 1062.
Sound-records and other objects, Composition for. T. A. Edison. No. 1,002,505; Sept. 5; Sp. p. 729; Gaz. vol. 170; p. 107.
Sound-records and the matrices for forming them, Making. J. W. Owen. No. 1,011,838; Dec. 12; Sp. p. 3232; Gaz. vol. 173; p. 538.
Sound-records, Making duplicate. J. W. Aylsworth. No. 1,002,482; Sept. 5; Sp. p. 683; Gaz. vol. 170; p. 99.
Sound-records, Making metallic duplicate. F. L. Dyer. No. 1,002,659; Sept. 5; Sp. p. 1057; Gaz. vol. 170; p. 158.
Sound-records, Shaving-machine for. T. H. Macdonald. No. 990,366; Apr. 25; Sp. p. 4473; Gaz. vol. 165; p. 791.
Sound-reproducer. A. N. Pierman. No. 1,010,311; Nov. 28; Sp. p. 5838; Gaz. vol. 172; p. 1040.
Sound reproducer and record. S. C. Porter. No. 1,012,910; Dec. 26; Sp. p. 5591; Gaz. vol. 173; p. 986.
Sound reproducer and recorder. W. A. Chapman. No. 998,465; July 18; Sp. p. 4054; Gaz. vol. 168; p. 719.
Sound-reproducers, Diaphragm for. N. S. Wakefield. No. 980,713; Jan. 3; Sp. p. 1162; Gaz. vol. 162; p. 185.
Sound reproducing and recording instrument. H. G. Wieder. No. 1,011,298; Dec. 12; Sp. p. 2032; Gaz. vol. 173; p. 349.
Sound-reproducing instrument. H. H. Ballard. No. 985,496; Feb. 28; Sp. p. 4870; Gaz. vol. 163; p. 855.
Sound-reproducing instrument. R. W. Weatherman. No. 996,816; July 4; Sp. p. 443; Gaz. vol. 168; p. 73.
Sound-reproducing instruments, Needle for. E. A. Allwood. No. 984,789; Feb. 21; Sp. p. 3346; Gaz. vol. 163; p. 590.
Sound-reproducing machine. R. L. Gibson. No. 993,980; May 30; Sp. p. 6733; Gaz. vol. 166; p. 1212.
Sound-reproducing machines, Automatic cut-off and stop for. W. G. Altenburgh. No. 1,006,517; Oct. 24; Sp. p. 4320; Gaz. vol. 171; p. 775.
Sound-reproducing machines, Stylus for. S. Levin. No. 1,003,474; Sept. 19; Sp. p. 2803; Gaz. vol. 170; p. 513.
Sound-reproducing or sound-recording machine. G. H. Underhill. No. 989,737; Apr. 18; Sp. p. 3098; Gaz. vol. 165; p. 545.
Sound-reproducing or sound-recording machine. G. H. Underhill. No. 995,390; June 13; Sp. p. 2804; Gaz. vol. 167; p. 478.
Sound-reproducing-record holder. H. D. Illick. No. 1,009,523; Nov. 21; Sp. p. 4245; Gaz. vol. 172; p. 731.
Sound transmission. E. Gray. No. 989,250; Apr. 11; Sp. p. 2021; Gaz. vol. 165; p. 346.
Sound, Transmission of. E. Gray. No. 985,524; Feb. 28; Sp. p. 4940; Gaz. vol. 163; p. 875.
Sound-transmitter. F. E. Howes. No. 1,008,340; Nov. 14; Sp. p. 1544; Gaz. vol. 172; p. 282.
Sound-transmitters, Mouthpiece for. J. Graham. No. 984,558; Feb. 21; Sp. p. 2846; Gaz. vol. 163; p. 507.
Sound-vibrations in water, Automatic means for producing. A. J. Mundy, H. B. Gale, and F. M. Dewing. No. 1,003,643; Sept. 19; Sp. p. 3173; Gaz. vol. 170; p. 572;
Sound-waves, Apparatus for transmitting. F. H. Brown. No. 1,006,429; Oct. 17; Sp. p. 4097; Gaz. vol. 171; p. 714.
Sounds or signals, Recording and reproducing. E. E. Clement. No. 1,011,322; Dec. 12; Sp. p. 2100; Gaz. vol. 173; p. 358.
Sounding apparatus. F. Schubert. No. 987,260; Mar. 21; Sp. p. 3176; Gaz. vol. 164; p. 574.
Sounding apparatus. F. Schubert. No. 1,008,566; Nov. 14; Sp. p. 2124; Gaz. vol. 172; p. 363.
Sounding apparatus. G. Rattray. No. 1,009,856; Nov. 28; Sp. p. 4911; Gaz. vol. 172; p. 888.
Soundings, Apparatus for taking. P. S. Hudson. No. 998,515; July 18; Sp. p. 4159; Gaz. vol. 168; p. 736.
Sower, Grass-seed. M. V. Kinne. No. 1,008,160; Nov. 7; Sp. p. 1089; Gaz. vol. 172; p. 178.
Sowing Paris green, Machine for. T. J. Churchill. No. 981,614; Jan. 17; Sp. p. 3236; Gaz. vol. 162; p. 549.
Spacer, Rotary. A. H. Lake, Jr. No. 990,568; Apr. 25; Sp. p. 4946; Gaz. vol. 165; p. 863.
Spacing-table. E. Molmark. No. 1,011,990; Dec. 19; Sp. p. 3579; Gaz. vol. 173; p. 626.
Spanner, Shifting. P. P. Strömberg. No. 989,080; Apr. 11; Sp. p. 1665; Gaz. vol. 165; p. 289.
Spanner-wrench. E. A. Denham. No. 999,968; Aug. 8; Sp. p. 1551; Gaz. vol. 169; p. 293.
Spark and cinder extinguisher. L. T. Sicka. No. 989,655; Apr. 18; Sp. p. 2928; Gaz. vol. 165; p. 516.
Spark-arrester. M. Mickelson. No. 980,318; Jan. 3; Sp. p. 270; Gaz. vol. 162; p. 49.
Spark-arrester. R. B. Kennington. No. 983,726; Feb. 7; Sp. p. 1006; Gaz. vol. 163; p. 160.
Spark-arrester. J. F. Romig. No. 984,394; Feb. 14; Sp. p. 2464; Gaz. vol. 163; p. 417.
Spark-arrester. S. D. and A. A. Sizer. No. 986,599; Mar. 14; Sp. p. 1791; Gaz. vol. 164; p. 317.
Spark-arrester. W. H. Gyer and E. B. Eldridge. No. 994,387; June 6; Sp. p. 606; Gaz. vol. 167; p. 103.
Spark-arrester. W. T. Depue. No. 997,761; July 11; Sp. p. 2458; Gaz. vol. 168; p. 429.
Spark-arrester. T. M. Van Horn and L. E. Endsley. No. 1,012,301; Dec. 19; Sp. 4280; Gaz. vol. 173; p. 734.
Spark-arrester and smoke-preventing device, Locomotive. F. H. Cole. No. 1,002,664; Sept. 5; Sp. p. 860; Gaz. vol. 170; p. 127.
Spark-coil. A. J. Gifford, J. J. Burns, and B. S. T. Bishop. No. 998,892; July 25; Sp. p. 5024; Gaz. vol. 168; p. 902.
Spark-deflector. C. F. Vermillion. No. 982,318; Jan. 24; Sp. p. 4746; Gaz. vol. 162; p. 821.
Spark-gap. J. D. Robertson. No. 1,006,795; Oct. 24; Sp. p. 4929; Gaz. vol. 171; p. 873.
Spark-gap muffler. M. B. Johnson. No. 996,091; June 27; Sp. p. 4346; Gaz. vol. 167; p. 787.
Spark-plug. A. Schmidt. No. 980,566; Jan. 3; Sp. p 849; Gaz. vol. 162; p. 136.

Alphabetical list of inventions—Continued.

Spark-plug. P. M. Wilson. No. 980,723; Jan. 3; Sp. p 1178; Gaz. vol. 162; p. 188.
Spark-plug. W. Falwell. No. 981,752; Jan. 17; Sp. p 3507; Gaz. vol. 162; p. 595.
Spark-plug. E. Canedy. No. 982,474; Jan. 24; Sp. p 5088; Gaz. vol. 162; p. 878.
Spark-plug. H. E. Maher. No. 983,737; Feb. 7; Sp. p. 1026; Gaz. vol. 163; p. 164.
Spark-plug. L. R. Spencer. No. 988,394; Apr. 4; Sp. p. 230; Gaz. vol. 165; p. 37.
Spark-plug. W. Z. Flower. No. 988,451; Apr. 4; Sp. p. 345; Gaz. vol. 165; p. 56.
Spark-plug. H. W. Jones. No. 988,785; Apr. 4; Sp. p. 1061; Gaz. vol. 165; p. 170.
Spark-plug. D. W. Wadsworth. No. 988,840; Apr. 4; Sp. p. 1168; Gaz. vol. 165; p. 186.
Spark-plug. J. R. Coyle. No. 992,168; May 16; Sp. p. 2844; Gaz. vol. 166; p. 529.
Spark-plug. O. C. Winestock. No. 993,214; May 23; Sp. p. 5107; Gaz. vol. 166; p. 920.
Spark-plug. W., E., and G. Hagstrom. No. 994,673; June 6; Sp. p. 1210; Gaz. vol. 167; p. 197.
Spark-plug. J. E. Schaefer, Jr. No. 995,989; June 20; Sp. p. 4121; Gaz. vol. 167; p. 717.
Spark-plug. F. E. Harpst. No. 996,410; June 27; Sp. p. 5118; Gaz. vol. 167; p. 896.
Spark-plug. A. Schmidt. No. 999,343; Aug. 1; Sp. p. 285; Gaz. vol. 169; p. 53.
Spark-plug. J. M. Dayton. No. 1,001,363; Aug. 22; Sp. p. 4670; Gaz. vol. 169; p. 843.
Spark-plug. J. M. Dayton. No. 1,001,364; Aug. 22; Sp. p. 4671; Gaz. vol. 169; p. 843.
Spark-plug. J. M. Dayton. No. 1,001,365; Aug. 22; Sp. p. 4673; Gaz. vol. 169; p. 843.
Spark-plug. O. H. H. Heins. No. 1,003,740; Sept. 19; Sp. p. 3394; Gaz. vol. 170; p. 605.
Spark-plug. H. E. Maher. No. 1,007,466; Oct. 31; Sp. p. 6397; Gaz. vol. 171; p. 1161.
Spark-plug. C. H. Smith. No. 1,007,806; Nov. 7; Sp. p. 356; Gaz. vol. 172; p. 56.
Spark-plug. W. H. Tidmarsh. No. 1,008,219; Nov. 7; Sp. p. 1235; Gaz. vol. 172; p. 201.
Spark-plug. C. A. Mezger. No. 1,008,485; Nov. 14; Sp. p. 1951; Gaz. vol. 172; p. 333.
Spark-plug. W. S. Witter. No. 1,008,935; Nov. 14; Sp p. 2902; Gaz. vol. 172; p. 487.
Spark-plug. A. R. Meacham. No. 1,009,084; Nov. 21; Sp. p. 3253; Gaz. vol. 172; p. 575.
Spark-plug. G. O. Terry. No. 1,009,867; Nov. 28; Sp. p. 4933; Gaz. vol. 172; p. 891.
Spark-plug. C. C. Eldridge and E. J. Beebe. No. 1,011,595; Dec. 12; Sp. p. 2723; Gaz. vol. 173; p. 456.
Spark-plug. C. B. Nelson. No. 1,013,048; Dec. 26; Sp. p. 5907; Gaz vol. 173; p. 1033.
Spark-plug attachment. C. T. Gaither and L. H. Black. No. 999,022; July 25; Sp. p. 5325; Gaz. vol. 168; p. 948.
Spark-plug connector and switch. G. W. Manville. No. 983,738; Feb. 7; Sp. p. 1027; Gaz. vol. 163; p. 164.
Spark-plug holder. W. J. Randolph, Jr. No. 998,200; July 18; Sp. p. 3458; Gaz. vol. 168; p. 623.
Spark-plug holder and priming-cup, Combined. A. F. Groebl. No. 1,004,250; Sept. 26; Sp. p. 4572; Gaz. vol. 170; p. 809.
Spark-plug indicator. A. R. Lamberson. No. 995,878; June 20; Sp. p. 3907; Gaz. vol. 167; p. 678.
Spark-plug, Magnetic. F. S. Perrin. No. 989,924; Apr. 18; Sp. p. 3497; Gaz. vol. 165; p. 608.
Spark-plug protector. A. R. Bullock. No. 1,009,643; Nov. 21; Sp. p. 4455; Gaz. vol. 172; p. 768.
Spark-producer. W. W. Williams. No. 998,143; July 18; Sp. p. 3351; Gaz. vol. 168; p. 604.
Sparking device. W. Falwell. No. 998,885; July 25; Sp. p. 5015; Gaz. vol. 168; p. 900.
Sparking device, Make-and-break. C. H. Newton. No. 1,010,448; Dec. 5; Sp. p. 88; Gaz. vol. 173; p. 18.
Sparking-device switch. F. J. Marrington. No. 1,009,162; Nov. 21; Sp. p. 3398; Gaz. vol. 172; p. 601.
Sparking plug. P. K. Stern. No. 995,039; June 13; Sp. p. 2069; Gaz. vol. 167; p. 362.
Sparking plug. E. Kuhn. No. 995,543; June 20; Sp. p. 3148; Gaz. vol. 167; p. 560.
Sparking plugs, Junction-box for. J. Dubail. No. 985,791; Mar. 7; Sp. p. 49; Gaz. vol. 164; p. 11.
Spatula. H. C. Kniffen. No. 990,748; Apr. 25; Sp. p. 5350; Gaz. vol. 165; p. 923.
Spectacle-case. F. J. Schnorr. No. 1,004,474; Sept. 26; Sp. p. 5025; Gaz. vol. 170; p. 884.
Spectacle-glass, Magnifying. M. von Rohr. No. 1,000,346; Aug. 8; Sp. p. 2395; Gaz. vol. 169; p. 422.
Spectacle-glass, Toric. M. von Rohr. No. 989,645; Apr. 18; Sp. p. 2908; Gaz. vol. 165; p. 513.
Spectacle nose-guard. G. H. Day. No. 1,001,734; Aug. 29; Sp. p. 5412; Gaz. vol. 169; p. 997.
Spectacle-temple. E. Barnes. No. 1,001,238; Aug. 22; Sp. p. 4389; Gaz. vol. 169; p. 798.
Spectacle-temples, Cover for. F. Neudorff. No. 989,397; Apr. 11; Sp. p. 2345; Gaz. vol. 165; p. 396.
Spectacles. J. H. Monroe. No. 981,872; Jan. 17; Sp. p. 3777; Gaz. vol. 162; p. 639.
Spectacles, eyeglasses, and the like. H. Newbold. No. 997,317; July 11; Sp. p. 1523; Gaz. vol. 168; p. 277.
Spectacles, Marksman's. F. H. Edmonds. No. 1,003,889; Sept. 19; Sp. p. 3683; Gaz. vol. 170; p. 655.
Spectacles, Temple-bow holder for frameless. J. Savoie. No. 988,666; Apr. 4; Sp. p. 806; Gaz. vol. 165; p. 130.
Spectroscope-prism with curved surfaces. C. Féry. No. 1,007,346; Oct. 31; Sp. p. 6143; Gaz. vol. 171; p. 1120.
Speculum. T. R. Humphreys. No. 997,823; July 11; Sp. p. 2620; Gaz. vol. 168; p. 450.
Speed and power transmitting mechanism. E. Schoonmaker. No. 991,754; May 9; Sp. p. 1984; Gaz. vol. 166; p. 357.
Speed and reversing mechanism, Variable-. E. M. and W. J. Steinle. No. 980,847; Jan. 3; Sp. p. 1425; Gaz. vol. 162; p. 228.
Speed-changing mechanism. W. C. Conant. No. 987,430; Mar. 21; Sp. p. 3525; Gaz. vol. 164; p. 630.
Speed-changing mechanism. A. R. Murray. No. 1,001,064; Aug. 22; Sp. p. 4036; Gaz. vol. 169; p. 742.
Speed-changing mechanism. A. R. McCausland. No. 1,007,958; Nov. 7; Sp. p. 700; Gaz. vol. 172; p. 109.
Speed-changing mechanism. A. R. McCausland. No. 1,007,959; Nov. 7; Sp. p. 703; Gaz. vol. 172; p. 109.
Speed-changing mechanism. B. D. Northrup. No. 1,007,963; Nov. 7; Sp. p. 708; Gaz. vol. 172; p. 110.
Speed-changing mechanism. J. L. de Briones. No. 1,009,954; Nov. 28; Sp. p. 5103; Gaz. vol. 172; p. 920.
Speed-changing mechanism. F. A. Law. No. 1,010,273; Nov. 28; Sp. p. 5745; Gaz. vol. 172; p. 1027.
Speed-changing mechanism for motor-cars. A. H. Adams and M. C. I. Hunter. No. 1,006,893; Oct. 24; Sp. p. 5167; Gaz. vol. 171; p. 908.
Speed-controller, Automatic electromagnetic. H. Hertzberg. No. 990,264; Apr. 25; Sp. p. 4236; Gaz. vol. 165; p. 756.
Speed-controlling means. E. Hunter. No. 998,005; July 18; Sp. p. 3048; Gaz. vol. 168; p. 555.
Speed-gage. O. Evensen. No. 983,127; Jan. 31; Sp. p. 6468; Gaz. vol. 162; p. 1124.
Speed gearing, Frictional change-of-. L. C. Arnaud. No. 1,000,881; Aug. 15; Sp. p. 3584; Gaz. vol. 169; p. 644.
Speed-governing device for power transmission, Electro-hydraulic. A. Sundh. No. 1,011,269; Dec. 12; Sp. p. 1971; Gaz. vol. 173; p. 338.
Speed-governor. R. F. Halliwell. No. 993,982; May 30; Sp. p. 6739; Gaz. vol. 166; p. 1213.
Speed-governor. E. Podlešàk. No. 1,003,501; Sept. 19; Sp. p. 2853; Gaz. vol. 170; p. 522.
Speed indicating and recording mechanism. W. K. Menns. No. 997,075; July 4; Sp. p. 1022; Gaz. vol. 168; p. 164.
Speed-indicating apparatus. Ship's-. R. Star. No. 988,832; Apr. 4; Sp. p. 1151; Gaz. vol. 165; p. 184.
Speed-indicating system. M. R. Hutchison. No. 982,499; Jan. 24; Sp. p. 5134; Gaz. vol. 162; p. 886.
Speed-indicator. J. H. Capwell. No. 980,198; Jan. 3; Sp. p. 38; Gaz. vol. 162; p. 9.
Speed-indicator. A. B. Johnson. No. 980,531; Jan. 3; Sp. p. 779; Gaz. vol. 162; p. 124.
Speed-indicator. R. Shipman. (Reissue.) No. 13,196; Jan. 10; Sp. p. 3200; Gaz. vol. 162; p. 522.
Speed-indicator. A. Trowbridge. No. 983,096; Jan. 31; Sp. p. 6413; Gaz. vol. 162; p. 1114.
Speed-indicator. R. J. Hutchinson and A. B. Grindrod. No. 983,496; Feb. 7; Sp. p. 511; Gaz. vol. 163; p. 82.
Speed-indicator. E. Thomson. No. 993,910; May 30; Sp. p. 6594; Gaz. vol. 166; p. 1188.
Speed-indicator. O. Bothe and O. Löscher. No. 1,001,342; Aug. 22; Sp. p. 4618; Gaz. vol. 169; p. 835.
Speed-indicator. W. F. Brown. No. 1,001,613; Aug. 29; Sp. p. 5152; Gaz. vol. 169; p. 955.
Speed-indicator. W. E. Parr. No. 1,004,544; Sept. 26; Sp. p. 5159; Gaz. vol. 170; p. 907.
Speed indicator and recorder. A. D. Renfro. No. 982,021; Jan. 17; Sp. p. 4136; Gaz. vol. 162; p. 690.
Speed-indicator drive connection, Motor-cycle-. J. K. Stewart. No. 996,295; June 27; Sp. p. 4822; Gaz. vol. 167; p. 855.
Speed-indicator for boats. W. Goblet. No. 1,007,280; Oct. 31; Sp. p. 6012; Gaz. vol. 171; p. 1097.
Speed-indicator for motor-cars and other vehicles. O. Bothe and O. Löscher. No. 996,966; July 4; Sp. p. 769; Gaz. vol. 168; p. 126.
Speed-indicator, Recording. J. O. Tonkin. No. 998,213; July 18; Sp. p. 3487; Gaz. vol. 168; p. 628.
Speed-jack. G. E. Wunder. No. 1,006,170; Oct. 17; Sp. p. 3524; Gaz. vol. 171; p. 624.
Speed-limiting device. H. F. Elshoff. No. 1,002,831; Sept. 12; Sp. p. 1436; Gaz. vol. 170; p. 256.
Speed-limiting device for motor-vehicles. W. E. Marchant. No. 994,415; June 6; Sp. p. 653; Gaz. vol. 167; p. 111.
Speed-measure. J. O. Morrison. No. 995,412; June 13; Sp. p. 2857; Gaz. vol. 167; p. 485.
Speed-measure. F. R. C. and E. F. Joyce. No. 997,297; July 11; Sp. p. 1482; Gaz. vol. 168; p. 270.
Speed-measuring instrument. F. E. Wolf. No. 1,008,510; Nov. 14; Sp. p. 1998; Gaz. vol. 172; p. 341.
Speed mechanism, Change-. L. C. Arnaud. No. 999,691; Aug. 1; Sp. p. 972; Gaz. vol. 169; p. 170.
Speed mechanism, Change-. F. M. Chapman. No. 1,001,354; Aug. 22; Sp. p. 4645; Gaz. vol. 169; p. 839.
Speed mechanism, Change-. R. Milne. No. 1,008,181; Nov. 7; Sp. p. 1131; Gaz. vol. 172; p. 186.

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Speed mechanism, Change-. R. Milne. No. 1,012,408; Dec. 19; Sp. p. 4487; Gaz. vol. 173; p. 769.
Speed mechanism, Differential-. H. A. Rhodes. No. 981,689; Jan. 17; Sp. p. 3394; Gaz. vol. 162; p. 573.
Speed mechanism, Variable-. H. W. Schatz. No. 683,251; Jan. 31; Sp. p. 6723; Gaz. vol. 162; p. 1166.
Speed mechanism, Variable-. H. W. Schatz. No. 983,252; Jan. 31; Sp. p. 6725; Gaz. vol. 162; p. 1166.
Speed-meter for rotative movements. E. O. G. Becker. No. 998,947; July 25; Sp. p. 5161; Gaz. vol. 168; p. 921.
Speed of motor-cars and other vehicles, Apparatus for limiting the. W. Roper. No. 986,503; Mar. 14; Sp. p. 1589; Gaz. vol. 164; p. 283.
Speed-recorder. W. H. Bristol. No. 1,000,148; Aug. 8; Sp. p. 1974; Gaz. vol. 169; p. 355.
Speed-reducer for power-generators. J. G. O'Kelly. No. 986,588; Mar. 14; Sp. p. 1766; Gaz. vol. 164; p. 313.
Speed-reducing apparatus. A. Citroën. No. 1,009,280; Nov. 21; Sp. p. 3705; Gaz. vol. 172; p. 645.
Speed-regulating air-cushion and emergency jarring device, Combined. R. M. and J. L. Downie. No. 1,002,971; Sept. 12; Sp. p. 1759; Gaz. vol. 170; p. 305.
Speed-regulator, Automobile. A. B. Griep. No. 981,080; Jan. 10; Sp. p. 2073; Gaz. vol. 162; p. 342.
Speed-regulator releasing mechanism. P. L. Crowe. No. 1,003,037; Sept. 12; Sp. p. 1892; Gaz. vol. 170; p. 326.
Speed-regulator, Stoker. P. L. Crowe and A. Frankenheim. No. 1,003,036; Sept. 12; Sp. p. 1891; Gaz. vol. 170; p. 326.
Speed-reversing mechanism. A. R. McCausland. No. 1,007,957; Nov. 7; Sp. p. 698; Gaz. vol. 172; p. 108.
Speed-transmission device, Variable-. J. B. Runner. No. 981,797; Jan. 17; Sp. p. 3601; Gaz. vol. 162; p. 611.
Speed-transmission device, Variable-. W. W. Prather. No. 1,012,912; Dec. 26; Sp. p. 5594; Gaz. vol. 173; p. 986.
Speed-transmission mechanism. J. Barnes. No. 983,016; Jan. 31; Sp. p. 6247; Gaz. vol. 162; p. 1087.
Speed-transmission mechanism, Variable-. G. Cuthbert. No. 980,210; Jan. 3; Sp. p. 66; Gaz. vol. 162; p. 13.
Speed-transmission mechanism, Variable-. C. Sintz. No. 986,092; Mar. 7; Sp. p. 718; Gaz. vol. 164; p. 115.
Speed varying and reversing mechanism. L. and L. R. Bleitz. No. 997,486; July 11; Sp. p. 1842; Gaz. vol. 168; p. 332.
Speed-varying device for machine-tools. W. C. Fish. No. 1,008,593; Nov. 14; Sp. p. 2190; Gaz. vol. 172; p. 374.
Speedometer. J. F. Wilkie. No. 989,742; Apr. 18; Sp. p. 3111; Gaz. vol. 165; p. 547.
Speedometer. R. Abell. No. 990,945; May 2; Sp. p. 253; Gaz. vol. 166; p. 44.
Speedometer. C. L. Bastian. No. 995,653; June 20; Sp. p. 3409; Gaz. vol. 167; p. 600.
Speedometer. G. P. Taylor. No. 995,926; June 20; Sp. p. 4001; Gaz. vol. 167; p. 695.
Speedometer. D. M. Bell. No. 1,004,347; Sept. 26; Sp. p. 4750; Gaz. vol. 170; p. 840.
Speedometer. L. A. Greenleaf. No. 1,011,051; Dec. 5; Sp. p. 1422; Gaz. vol. 173; p. 226.
Speedometer driving mechanism. T. E. Adams. No. 1,007,625; Oct. 31; Sp. p. 6757; Gaz. vol. 171; p. 1215.
Speedometer-gearing support. A. L. Soper. No. 1,004,598; Oct. 3; Sp. p. 107; Gaz. vol. 171; p. 19.
Speedometer, Magnetic. J. K. Stewart. No. 995,731; June 20; Sp. p. 3574; Gaz. vol. 167; p. 628.
Speedometer, Recording-. R. D. White. No. 1,006,326; Oct. 17; Sp. p. 3878; Gaz. vol. 171; p. 678.
Speedometer supporting and driving mechanism. J. H. and E. W. Bullard. No. 986,684; Mar. 14; Sp. p. 1966; Gaz. vol. 164; p. 346.
Sphygmomanometer. R. E. Mercer. No. 998,916; July 25; Sp. p. 5074; Gaz. vol. 168; p. 910.
Spigot. L. F. Eiden. No. 980,224; Jan. 3; Sp. p. 94; Gaz. vol. 162; p. 18.
Spigot. S. Z. Scott. No. 985,554; Feb. 28; Sp. p. 5002; Gaz. vol. 163; p. 885.
Spigot. J. P. Tarr. No. 986,520; Mar. 14; Sp. p. 1624; Gaz. vol. 164; p. 288.
Spigot. G. B. Carroll. No. 993,959; May 30; Sp. p. 6697; Gaz. vol. 166; p. 1205.
Spigot. R. and E. Rabiger. No. 995,903; June 20; Sp. p. 3959; Gaz. vol. 167; p. 687.
Spigot. W. A. Dunbeck. No. 1,002,140; Aug. 29; Sp. p. 6258; Gaz. vol. 169; p. 1132.
Spigot. L. Schultz. No. 1,003,812; Sept. 19; Sp. p. 3531; Gaz. vol. 170; p. 628.
Spigot. I. H. Martin. No. 1,003,932; Sept. 19; Sp. p. 3813; Gaz. vol. 170; p. 670.
Spigot. E. W. Lundy. No. 1,004,446; Sept. 26; Sp. p. 4966; Gaz. vol. 170; p. 874.
Spigot. F. A. Spinney. No. 1,011,260; Dec. 12; Sp. p. 1943; Gaz. vol. 173; p. 334.
Spigot, Locking. J. F. Koch. No. 998,100; July 18; Sp. p. 3265; Gaz. vol. 168; p. 589.
Spigot-wrench. G. W. Dewees. No. 998,959; July 25; Sp. p. 5184; Gaz. vol. 168; p. 926.
Spike. A. L. Barns. No. 983,856; Feb. 7; Sp. p. 1284; Gaz. vol. 163; p. 205.
Spike. J. L. Jossart. (Reissue.) No. 13,204; Feb. 14; Sp. p. 2748; Gaz. vol. 163; p. 459.
Spike. A. J. Olson. No. 985,625; Feb. 28; Sp. p. 5145; Gaz. vol. 163; p. 909.
Spike. L. Svoboda. No. 988,744; Apr. 4; Sp. p. 978; Gaz. vol. 165; p. 155.
Spike. J. R. Morris. No. 994,330; June 6; Sp. p. 468; Gaz. vol. 167; p. 80.
Spike. J. W. Balfour. No. 1,001,335; Aug. 22; Sp. p. 4599; Gaz. vol. 169; p. 832.
Spike. J. L. Jossart. No. 1,001,411; Aug. 22; Sp. p. 4766; Gaz. vol. 169; p. 858.
Spike. W. H. Stevens. No. 1,012,475; Dec. 19; Sp. p. 4607; Gaz. vol. 173; p. 790.
Spike, Base-ball. P. J. Brady. No. 1,012,057; Dec. 19; Sp. p. 3740; Gaz. vol. 173; p. 650.
Spike-holder. J. M. Powell. No. 1,009,568; Nov. 21; Sp. p. 4335; Gaz. vol. 172; p. 746.
Spike or fastening. L. J. Hine. No. 988,779; Apr. 4; Sp. p. 1053; Gaz. vol. 165; p. 168.
Spike-puller. J. Adams. No. 995,757; June 20; Sp. p. 3647; Gaz. vol. 167; p. 637.
Spillway. G. F. Stickney. No. 991,907; May 9; Sp. p. 2302; Gaz. vol. 166; p. 410.
Spindle: *See* Vehicle-spindle.
Spindle. H. L. Brown. No. 987,546; Mar. 21; Sp. p. 3747; Gaz. vol. 164; p. 670.
Spindle. A. Seeley and H. Holt. No. 996,530; June 27; Sp. p. 5342; Gaz. vol. 167; p. 935.
Spindle dividing-head, Multiple-. L. Mastrangel. No. 1,001,419; Aug. 22; Sp. p. 4776; Gaz. vol. 169; p. 860.
Spindle-lock. M. Omalia. No. 998,545; July 18; Sp. p. 4210; Gaz. vol. 168; p. 746.
Spindle-lock. L. S. Starrett. No. 1,006,508; Oct. 24; Sp. p. 4305; Gaz. vol. 171; p. 772.
Spindle-lubricator, Inertia. J. M. Cameron. No. 1,006,908; Oct. 24; Sp. p. 5195; Gaz. vol. 171; p. 913.
Spindle-step, Adjustable. T. Bentley. No. 988,924; Apr. 4; Sp. p. 1323; Gaz. vol. 165; p. 212.
Spindles, End-thrust adjustment for machine-. H. J. Hjorth. No. 989,261; Apr. 11; Sp. p. 2055; Gaz. vol. 165; p. 350.
Spindles into cops, Machine for inserting. E. Herzog. No. 989,782; Apr. 18; Sp. p. 3193; Gaz. vol. 165; p. 561.
Spinerets for use in manufacture of artificial silk, Making. C. Woegerer. No. 988,424; Apr. 4; Sp. p. 288; Gaz. vol. 165; p. 47.
Spinning and doubling frame guard. J. Gregory. No. 982,667; Jan. 24; Sp. p. 5462; Gaz. vol. 162; p. 942.
Spinning and doubling machine spindle. W. T. Smith No. 984,043; Feb. 14; Sp. p. 1726; Gaz. vol. 163; p. 297.
Spinning and roving machine spindle. J. C. Leslie. No. 993,080; May 23; Sp. p. 4831; Gaz. vol. 166; p. 877.
Spinning and the like machines, Doffer-guard and oil-well cover for spindle-supports for. A. H. Morton. No. 988,129; Mar. 28; Sp. p. 5060; Gaz. vol. 164; p. 898.
Spinning and twisting machine. F. S. Culver. No. 983,607; Feb. 7; Sp. p. 762; Gaz. vol. 163; p. 119.
Spinning and twisting machine guide-wire. G. E. Spofford. No. 991,555; May 9; Sp. p. 1567; Gaz. vol. 166; p. 290.
Spinning, doubling, and like operations, Apparatus for. S. Z. de Ferranti. No. 997,770; July 11; Sp. p. 2476; Gaz. vol. 168; p. 432.
Spinning, doubling, and twisting machine. S. Z. de Ferranti. No. 986,699; Mar. 14; Sp. p. 1995; Gaz. vol. 164; p. 351.
Spinning, doubling, and twisting machine, Ring. R. Riley. No. 1,001,889; Aug. 29; Sp. p. 5764; Gaz. vol. 169; p. 1051.
Spinning-frame. E. H. Ryon. No. 1,012,714; Dec. 26; Sp. p. 5133; Gaz. vol. 173; p. 920.
Spinning-frame doffing mechanism. N. R. Newsholme. No. 989,183; Apr. 11; Sp. p. 1869; Gaz. vol. 165; p. 324.
Spinning-frame whirl. W. St. Peter. No. 1,007,614; Oct. 31; Sp. p. 6733; Gaz. vol. 171; p. 1211.
Spinning-head. J. Buckley. No. 988,306; Apr. 4; Sp. p. 20; Gaz. vol. 165; p. 6.
Spinning-machine. E. Dixon. No. 983,609; Feb. 7; Sp. p. 765; Gaz. vol. 163; p. 120.
Spinning-machine. D. O. Pease. No. 987,317; Mar. 21; Sp. p. 3301; Gaz. vol. 164; p. 593.
Spinning-machine. A. and J. Stell. No. 993,467; May 30; Sp. p. 5658; Gaz. vol. 166; p. 1035.
Spinning-machine. A. and J. Stell. No. 993,565; May 30; Sp. p. 5872; Gaz. vol. 166; p. 1070.
Spinning-machine. F. S. Culver. No. 1,008,702; Nov. 14; Sp. p. 2430; Gaz. vol. 172; p. 410.
Spinning-machine attachment. H. S. Hawley and J. W. Palmer. No. 1,008,144; Nov. 7; Sp. p. 1061; Gaz. vol. 172; p. 173.
Spinning-machine bobbin. A. H. Briggs. No. 983,973; Feb. 14; Sp. p. 1555; Gaz. vol. 163; p. 274.
Spinning machine, Ring-. C. Renshaw, L. Fairhurst, and G. H. Cranshaw. No. 1,005,877; Oct. 17; Sp. p. 2862; Gaz. vol. 171; p. 520.
Spinning machine, Rotary rivet-. J. G. Kingsbury. No. 992,208; May 16; Sp. p. 2919; Gaz. vol. 166; p. 543.
Spinning-machine thread-breaking device. F. Q. Hartmann. No. 995,672; June 20; Sp. p. 3445; Gaz. vol. 167; p. 607.

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Spinning-machine thread-breaking device. F. Q. Hartmann. No. 1,003,104; Sept. 12; Sp. p. 2037; Gaz. vol. 170; p. 351.
Spinning-machine thread-guide. J. S. Furtardo. No. 990,724; Apr. 25; Sp. p. 5302; Gaz. vol. 165; p. 914.
Spinning-machine top roll. W. G. Ragsdale. No. 981,307; Jan 10; Sp. p. 2600; Gaz. vol. 162; p. 423.
Spinning-machine twister-head. D. O. Pease. No. 983,641; Feb. 7; Sp. p. 822; Gaz. vol. 163; p. 131.
Spinning-machine weight-lever. E. Dixon. No. 990,806; Apr. 25; Sp. p. 5477; Gaz. vol. 165; p. 943.
Spinning-machines, Cleaning device for lifting-rods of. W. G. Ragsdale. No. 989,641; Apr. 18; Sp. p. 2898; Gaz. vol. 165; p. 511.
Spinning machines, Driving mechanism of ring-. J. Weinbrenner. No. 1,012,946; Dec. 26; Sp. p. 5697; Gaz. vol. 173; p. 999.
Spinning-machines, Thread-breaking device for. F. Q. Hartman. No. 990,438; Apr. 25; Sp. p. 4661; Gaz. vol. 165; p. 819.
Spinning-mule. W. D. Rundlett and H. White. No. 989,513; Apr. 11; Sp. p. 2571; Gaz. vol. 165; p. 436.
Spinning or twisting and balling machine. H. W. Herbst. No. 997,128; July 4; Sp. p. 1113; Gaz. vol. 168; p. 181.
Spinning or twisting and winding machine. R. Dawes. No. 994,576; June 6; Sp. p. 988; Gaz. vol. 167; p. 164.
Spinning or twisting frames, Adjustable tension for bobbins for. J. E. Barbour. No. 1,004,342; Sept. 26; Sp. p. 4742; Gaz. vol. 170; p. 838.
Spinning or twisting machine, Ring. A. E. Rhoades. No. 990,501; Apr. 25; Sp. p. 4821; Gaz. vol. 165; p. 841.
Spinning or twisting machine thread-guide. J. E. Prest. No. 995,564; June 20; Sp. p. 3193; Gaz. vol. 167; p. 568.
Spinning or twisting machines, Separating means for. A. E. Rhoades. No. 1,008,066; Nov. 7; Sp. p. 905; Gaz. vol. 172; p. 145.
Spinning or twisting machines, Thread-guide for. J. E. Prest. No. 1,006,126; Oct. 17; Sp. p. 3417; Gaz. vol. 171; p. 607.
Spinning-ring. A. J. Thomson. No. 1,009,602; Nov. 21; Sp. p. 4390; Gaz. vol. 172; p. 756.
Spinning-rings, Fastening device for permitting the interchange of. L. T. Houghton. No. 990,360; Apr. 25; Sp. p. 4457; Gaz. vol. 165; p. 789.
Spinning, twisting, and doubling machinery. S. Z. de Ferranti. (Reissue.) No. 13,276; July 25; Sp. p. 5638; Gaz. vol. 168; p. 1003.
Spinning, twisting, and like machines Spindle-support for. A. H. Morton. No. 1,008,855; Nov. 14; Sp. p. 2747; Gaz. vol. 172; p. 462.
Spinning, twisting, and the like machines, Spindle-support for. G. W. Farnham. No. 986,814; Mar. 14; Sp. p. 2248; Gaz. vol. 164; p. 389.
Spinning, twisting, and the like machines, Spindle-support for. A. H. Morton. No. 988,128; Mar. 28; Sp. p. 5058; Gaz. vol. 164; p. 898.
Spinning, twisting, and the like machines, Spindle-support for. A. H. Morton. No. 988,130; Mar. 28; Sp. p. 5061; Gaz. vol. 164; p. 898.
Spiral rolls without mandrels, Apparatus for making. C. I. Shirley. No. 991,175; May 2; Sp. p. 740; Gaz. vol. 166; p. 125.
Spittoon. F. Zabranski. No. 999,537; Aug 1; Sp. p. 680; Gaz. vol. 169; p. 116.
Spittoon, Fountain-. R. F. Bigalke. No. 990,218; Apr. 25; Sp. p. 4124; Gaz. vol. 165; p. 738.
Spittoon, Sanitary pocket-. G. Steinke. No. 1,012,471; Dec. 19; Sp. p. 4601; Gaz. vol. 173; p. 789.
Splice. W. Queenan. No. 1,005,467; Oct. 10; Sp. p. 1950; Gaz. vol. 171; p. 345.
Splice-bar for electrically-welded joints. H. F. A. Kleinschmidt. No. 991,726; May 9; Sp. p. 1946; Gaz. vol. 166; p. 349.
Splicer. W. T. West. No. 1,011,685; Dec. 12; Sp. p. 2909; Gaz. vol. 173; p. 486.
Splicing-tool. C. W. Cones. No. 1,007,535; Oct. 31; Sp. p. 6568; Gaz. vol. 171; p. 1185.
Splicing-tool. J. Schuttee. No. 1,010,963; Dec. 5; Sp. p. 1245; Gaz. vol. 173; p. 197.
Splint-cutting machine. W. F. Hutchinson. No. 1,011,435; Dec. 12; Sp. p. 2318; Gaz. vol. 173; p. 396.
Spoke-joint. R. Francis. No. 1,001,380; Aug. 22; Sp. p. 4699; Gaz. vol. 169; p. 848.
Spoke-mitering machine. A. A. McLaughlin, E. S. Mills, and H. B. Bannister. No. 1,012,885; Dec. 26; Sp. p. 5544; Gaz. vol. 173; p. 978.
Spoke-support. L. H. North and H. C. Decker. No. 991,742; May 9; Sp. p. 1968; Gaz. vol. 166; p. 353.
Spoke-tenoning machine. E. E. Fletcher. No. 981,990; Jan. 17; Sp. p. 4073; Gaz. vol. 162; p. 679.
Spokes, Device for turning shoulders on wooden. A. D. Goodell. No. 1,010,894; Dec. 5; Sp. p. 1099; Gaz. vol. 173; p. 172.
Spool. C. A. Brinley. No. 988,755; Apr. 4; Sp. p. 1004; Gaz. vol. 165; p. 159.
Spool. W. A. Vietor. No. 1,011,532; Dec. 12; Sp. p. 2554; Gaz. vol. 173; p. 432.
Spool-cabinet. J. C. MacLagan. No. 995,617; June 20; Sp. p. 3334; Gaz. vol. 167; p. 587.
Spool-finishing machine. A. C. Livermore. No. 984,680; Feb. 21; Sp. p. 3099; Gaz. vol. 163; p. 549.
Spool-holder. A. Benze and G. L. Hubbell. No. 998,948; July 25; Sp. p. 5163; Gaz. vol. 168; p. 922.
Spool-holder. D. Marinsky. No. 1,001,662; Aug. 29; Sp. p. 5255; Gaz. vol. 169; p. 972.
Spool-holder. C. E. Talmon. No. 1,006,702; Oct. 24; Sp. p. 4712; Gaz. vol. 171; p. 839.
Spool-holder. A. P. S. Deem. No. 1,012,822; Dec. 26; Sp. p. 5394; Gaz. vol. 173; p. 957.
Spool, Metallic. F. J. Philbrook and G. A. Hersey. No. 985,702; Feb. 28; Sp. p. 5338; Gaz. vol. 163; p. 935.
Spool-stand. P. Brunelle, G., Jr., and C. Voetsch. No. 997,898; July 11; Sp. p. 2785; Gaz. vol. 168; p. 476.
Spooling-machine. J. P. O'Connell. No. 997,152; July 4; Sp. p. 1176; Gaz. vol. 168; p. 190.
Spooling-machine. H. Polster and A. Lang. No. 1,011,241; Dec. 12; Sp. p. 1896; Gaz. vol. 173; p. 327.
Spoon, Antiseptic. A. Grasselly. No. 1,011,613; Dec. 12; Sp. p. 2763; Gaz. vol. 173; p. 462.
Spoon-cover. E. Theriault. No. 1,002,094; Aug. 29; Sp. p. 6177; Gaz. vol. 169; p. 1117.
Spoon, Fruit-. G. Chapman. No. 1,004,990; Oct. 3; Sp. p. 931; Gaz. vol. 171; p. 155.
Spoon-holder, Sanitary. W. B. Rohmer. No. 993,198; May 23; Sp. p. 5075; Gaz. vol. 166; p. 915.
Spoon, Medical. W. F. Kahl. No. 1,000,178; Aug. 8; Sp. p. 2051; Gaz. vol. 169; p. 365.
Spout, Drain-. J. M. Van Tassel. No. 1,012,764; Dec. 26; Sp. p. 5232; Gaz. vol. 173; p. 937.
Spout, Pouring-. P. Faure. No. 980,768; Jan. 3; Sp. p. 1264; Gaz. vol. 162; p. 203.
Spray and making same, Agricultural. C. Ellis. No. 1,007,682; Nov. 7; Sp. p. 48; Gaz. vol. 172; p. 11.
Spray-burner. C. N. Scott. No. 992,606; May 16; Sp. p. 3830; Gaz. vol. 166; p. 682.
Spray-burner. W. A. Bennett and J. L. Ardern. No. 1,000,227; Aug. 8; Sp. p. 2149; Gaz. vol. 169; p. 382.
Spray composition. Agricultural. C. Ellis. No. 1,002,247; Sept. 5; Sp. p. 133; Gaz. vol. 170; p. 17.
Sprayer. C. L. Chester. No. 988,079; Mar. 28; Sp. p. 4976; Gaz. vol. 164; p. 882.
Sprayer. M. D. Buskirk. No. 996,611; July 4; Sp. p. 24; Gaz. vol. 168; p. 7.
Sprayer. D. B. Smith. No. 1,000,447; Aug 15; Sp. p. 2637; Gaz. vol. 169; p. 490.
Sprayer. J. B. Barnes. No. 1,003,688; Sept. 19; Sp. p. 3289; Gaz. vol. 170; p. 589.
Sprayer and disinfector, Chemical. C. F. Sites. No. 1,004,700; Oct. 3; Sp. p. 320; Gaz. vol. 171; p. 55.
Sprayer, Liquid-. J. E. Thornycroft. No. 982,106; Jan. 17; Sp. p. 4307; Gaz. vol. 162; p. 718.
Sprayer, Paint-. F. W. Ballard. No. 1,007,667; Nov. 7; Sp. p. 15; Gaz. vol. 172; p. 5.
Spraying apparatus. H. B. Chalmers. No. 988,693; Apr. 4; Sp. p. 855; Gaz. vol. 165; p. 138.
Spraying apparatus. E. Batistoni. No. 997,034; July 4; Sp. p. 945; Gaz. vol. 168; p. 150.
Spraying apparatus. J. F. Schoelles. No. 999,676; Aug. 1; Sp. p. 946; Gaz. vol. 169; p. 165.
Spraying apparatus. J. D. Ford. No. 1,005,822; Oct. 17; Sp. p. 2738; Gaz. vol. 171; p. 500.
Spraying apparatus, Horse-pack water-bag. D. W. Adams. No. 1,003,856; Sept. 19; Sp. p. 3619; Gaz. vol. 170; p. 643.
Spraying apparatus, Shoulder-bag water-. D. W. Adams. No. 1,003,855; Sept. 19; Sp. p. 3618; Gaz. vol. 170; p. 643.
Spraying device. E. Sutherland. No. 1,004,709; Oct. 3; Sp. p. 360; Gaz. vol. 171; p. 59.
Spraying device, Liquid-. P. Brandt. No. 1,011,404; Dec. 12; Sp. p. 2253; Gaz. vol. 173; p. 384.
Spraying devices, Automatic fluid-injector for. W. H. and F. M. Spayd. No. 1,006,016; Oct. 17; Sp. p. 3169; Gaz. vol. 171; p. 569.
Spraying-head. G. Jackson. No. 996,767; July 4; Sp. p. 337; Gaz. vol. 168; p. 57.
Spraying-machine. E. J. Cantwell. No. 990,335; Apr. 25; Sp. p. 4411; Gaz. vol. 165; p. 780.
Spraying-machine. F. W. Herz. No. 998,579; July 18; Sp. p. 4293; Gaz. vol. 168; p. 758.
Spraying machine, Plant-. L. Willis. No. 999,076; July 25; Sp. p. 5436; Gaz. vol. 168; p. 967.
Spread-hook. W. Clayton. No. 985,659; Feb. 28; Sp. p. 5205; Gaz. vol. 163; p. 920.
Spring: *See* Automobile-spring; Auxiliary spring; Bed-spring; Bed and seat spring; Box-spring; Car-spring; Door-spring; Furniture-spring; Pneumatic spring; Reversible spring; Seat-back spring; Vehicle-spring.
Spring. W. J. Phelan. No. 988,382; Apr. 4; Sp. p. 202; Gaz. vol. 165; p. 33.
Spring. H. F. Nehr. No. 988,490; Apr. 4; Sp. p. 424; Gaz. vol. 165; p. 69.
Spring. R. D. Gallagher, Jr. No. 990,857; May 2; Sp. p. 63; Gaz. vol. 166; p. 13.
Spring. H. Pletsch. No. 991,539; May 9; Sp. p. 1529; Gaz. vol. 166; p. 284.
Spring. B. O. Larson. No. 992,215; May 16; Sp. p. 2932; Gaz. vol. 166; p. 545.
Spring. C. Watson and R. A. S. Paget. No. 993,208; May 23; Sp. p. 5095; Gaz. vol. 166; p. 919.
Spring. A. L. Snow. No. 997,423; July 11; Sp. p. 1714; Gaz. vol. 168; p. 312.

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Spring. A. L. Snow. No. 997,424; July 11; Sp. p. 1719; Gaz. vol. 168; p. 312.
Spring. A. L. Snow. No. 997,867; July 11; Sp. p. 2710; Gaz. vol. 168; p. 465.
Spring. W. H. Lawson. No. 1,004,579; Oct. 3; Sp. p. 60; Gaz. vol. 171; p. 12.
Spring-barrel, Safety. R. L. Marshall. No. 996,499; June 27; Sp. p. 5279; Gaz. vol. 167; p. 926.
Spring binding-post. L. M. Neher. No. 1,005,283; Oct. 10; Sp. p. 1553; Gaz. vol. 171; p. 280.
Spring bottom or seat construction. B. F. Windsor. No. 999,422; Aug. 1; Sp. p. 453; Gaz. vol. 169; p. 79.
Spring-casing. B. R. Myers. No. 990,210; Apr. 18; Sp. p. 4094; Gaz. vol. 165; p. 704.
Spring-casing. G. R. Henderson. No. 1,003,903; Sept. 19; Sp. p. 3707; Gaz. vol. 170; p. 660.
Spring-clasp for stocking-supporters and the like. E. S. Avis. No. 991,470; May 9; Sp. p. 1376; Gaz. vol. 166; p. 260.
Spring-clip. C. F. Grabau. No. 993,773; May 30; Sp. p. 6342; Gaz. vol. 166; p. 1143.
Spring connection, Vehicle. G. W. Hollaway. No. 1,007,201; Oct. 31; Sp. p. 5852; Gaz. vol. 171; p. 1068.
Spring construction. L. A. Young. No. 981,735; Jan. 17; Sp. p. 3480; Gaz. vol. 162; p. 589.
Spring construction. W. R. Smith. No. 985,710; Feb. 28; Sp. p. 5355; Gaz. vol. 163; p. 938.
Spring construction. L. A. Young. No. 988,425; Apr. 4; Sp. p. 289; Gaz. vol. 165; p. 47.
Spring construction. T. L. A. Adler. No. 991,187; May 2; Sp. p. 765; Gaz. vol. 166; p. 130.
Spring construction. G. C. Stackhouse. No. 1,011,515; Dec. 12; Sp. p. 2508; Gaz. vol. 173; p. 427.
Spring contracting and removing device. G. W. Bryant. No. 1,008,694; Nov. 14; Sp. p. 2409; Gaz. vol. 172; p. 407.
Spring device, Pneumatic. I. Cowles and E. H. MacDowell. No. 1,002,821; Sept. 12; Sp. p. 1415; Gaz. vol. 170; p. 252.
Spring end plate. T. A. Shea. No. 993,114; May 23; Sp. p. 4916; Gaz. vol. 166; p. 890.
Spring fastening device. J. Schade, Jr. No. 1,005,323; Oct. 10; Sp. p. 1645; Gaz. vol. 171; p. 295.
Spring-frame, Adjustable reclining. A. R. Barnett. No. 987,423; Mar. 21; Sp. p. 3515; Gaz. vol. 164; p. 628.
Spring-guide. J. C. Leahan. No. 986,183; Mar. 7; Sp. p. 894; Gaz. vol. 164; p. 144.
Spring-hook. T. D. Owen. No. 988,499; Apr. 4; Sp. p. 441; Gaz. vol. 165; p. 72.
Spring-jack switch. E. B. Craft. No. 1,004,244; Sept. 26; Sp. p. 4563; Gaz. vol. 170; p. 807.
Spring-lock, Box and other receptacle. F. W. Goedeke. No. 1,002,259; Sept. 5; Sp. p. 164; Gaz. vol. 170; p. 20.
Spring-motion mechanism, Universal-parallel-. C. R. S. J. Hallé. No. 980,774; Jan. 3; Sp. p. 1273; Gaz. vol. 162; p. 205.
Spring-motor. A. L. Smith. No. 982,444; Jan. 24; Sp. p. 5022; Gaz. vol. 162; p. 867.
Spring-motor. C. Arpurth. No. 994,360; June 6; Sp. p. 534; Gaz. vol. 167; p. 92.
Spring-motor. I. A. Shanton. No. 996,147; June 27; Sp. p. 4455; Gaz. vol. 167; p. 806.
Spring-motor. C. M. B. Boos. No. 999,296; Aug. 1; Sp. p. 196; Gaz. vol. 169; p. 37.
Spring-motor. W. H. Buller, E. Glassbrook, and H. N. Hanchett. No. 1,002,561; Sept. 5; Sp. p. 853; Gaz. vol. 170; p. 125.
Spring-motor. W. P. Hansen. No. 1,008,141; Nov. 7; Sp. p. 1056; Gaz. vol. 172; p. 172.
Spring-motor. C. S. Langton. No. 1,010,393; Nov. 28; Sp. p. 6012; Gaz. vol. 172; p. 1066.
Spring-seat. N. I. Riley. No. 1,004,082; Sept. 26; Sp. p. 4208; Gaz. vol. 170; p. 751.
Spring-seat clip. J. L. Higby. No. 1,002,691; Sept. 5; Sp. p. 1128; Gaz. vol. 170; p. 170.
Spring structure. W. Van Middlesworth. No. 1,012,939; Dec. 26; Sp. p. 5674; Gaz. vol. 173; p. 997.
Spring-switch. T. A. Gerlach. No. 995,341; June 13; Sp. p. 2691; Gaz. vol. 167; p. 462.
Spring-switch. D. D. Samaia. No. 1,004,086; Sept. 26; Sp. p. 4217; Gaz. vol. 170; p. 752.
Spring-testing apparatus. F. R. Alford. No. 1,007,171; Oct. 31; Sp. p. 5783; Gaz. vol. 171; p. 1057.
Spring-tire wheel. R. M. Batzer. No. 996,048; June 27; Sp. p. 4249; Gaz. vol. 167; p. 772.
Spring-trap. D. Begier. No. 1,006,048; Oct. 17; Sp. p. 3243; Gaz. vol. 171; p. 580.
Spring-trip-foot-adjusting device. C. E. Thomas. No. 987,604; Mar. 21; Sp. p. 3871; Gaz. vol. 164; p. 689.
Spring-washer. J. M. Lambie, C. R. Wrigley, and J. Lambie. No. 1,010,391; Nov. 28; Sp. p. 6009; Gaz. vol. 172; p. 1066.
Spring-wheel. R. Graham-Woodward. No. 981,414; Jan. 10; Sp. p. 2845; Gaz. vol. 162; p. 459.
Spring-wheel. C. M. Backman. No. 981,831; Jan. 17; Sp. p. 3695; Gaz. vol. 162; p. 625.
Spring-wheel. T. C. Erb. No. 984,894; Feb. 21; Sp. p. 3535; Gaz. vol. 163; p. 625.
Spring-wheel. W. I. Kimball. No. 985,039; Feb. 21; Sp. p. 3819; Gaz. vol. 163; p. 674.
Spring-wheel. E. Stewart. No. 985,639; Feb. 28; Sp. p. 5166; Gaz. vol. 163; p. 913.
Spring-wheel. G. H. Crawford and G. H. Sauer. No. 986,549; Mar. 14; Sp. p. 1688; Gaz. vol. 164; p. 299.
Spring-wheel. G. M. Tremmel and E. Christensen. No. 987,191; Mar. 21; Sp. p. 3027; Gaz. vol. 164; p. 549.
Spring-wheel. J. Sharp. No. 988,952; Apr. 4; Sp. p. 1380; Gaz. vol. 165; p. 222.
Spring-wheel. W. Hayden. No. 989,256; Apr. 11; Sp. p. 2043; Gaz. vol. 165; p. 349.
Spring-wheel. E. E. Harris. No. 989,706; Apr. 18; Sp. p. 3028; Gaz. vol. 165; p. 533.
Spring-wheel. A. Konrad. No. 990,051; Apr. 18; Sp. p. 3769; Gaz. vol. 165; p. 652.
Spring-wheel. M. D. Lowry. No. 990,444; Apr. 25; Sp. p. 4671; Gaz. vol. 165; p. 821.
Spring-wheel. G. Leeper. No. 992,719; May 16; Sp. p. 4032; Gaz. vol. 166; p. 720.
Spring-wheel. F. J. Millea. No. 993,092; May 23; Sp. p. 4853; Gaz. vol. 166; p. 882.
Spring-wheel. J. F. Arnold. No. 993,285; May 23; Sp. p. 5243; Gaz. vol. 166; p. 941.
Spring-wheel. F. T. Maurer. No. 993,858; May 30; Sp. p. 6506; Gaz. vol. 166; p. 1172.
Spring-wheel. R. E. Arnold and C. P. Hockett. No. 994,297; June 6; Sp. p. 399; Gaz. vol. 167; p. 68.
Spring-wheel. W. Schiek. No. 994,539; June 6; Sp. p. 910; Gaz. vol. 167; p. 150.
Spring-wheel. W. H. Clark. No. 995,116; June 13; Sp. p. 2226; Gaz. vol. 167; p. 387.
Spring-wheel. H. C. Kennedy. No. 995,467; June 20; Sp. p. 2989; Gaz. vol. 167; p. 533.
Spring-wheel. E. A. Nelson. No. 997,151; July 4; Sp. p. 1173; Gaz. vol. 168; p. 189.
Spring-wheel. J. B. Dunlap. No. 998,679; July 25; Sp. p. 4526; Gaz. vol. 168; p. 825.
Spring-wheel. W. T. Urie. No. 998,937; July 25; Sp. p. 5141; Gaz. vol. 168; p. 918.
Spring-wheel. H. C. Bergerud. No. 999,197; Aug. 1; Sp. p. 9; Gaz. vol. 169; p. 4.
Spring-wheel. C. I. Dodson. No. 999,437; Aug. 1; Sp. p. 483; Gaz. vol. 169; p. 85.
Spring-wheel. R. C. Jarvis. No. 1,000,008; Aug. 8; Sp. p. 1638; Gaz. vol. 169; p. 307.
Spring-wheel. H. E. Stroud. No. 1,000,640; Aug. 15; Sp. p. 3089; Gaz. vol. 169; p. 560.
Spring-wheel. W. van Nieuwkerk and T. Gutcheis. No. 1,000,645; Aug. 15; Sp. p. 3097; Gaz. vol. 169; p. 562.
Spring-wheel. E. A. Wall. No. 1,001,715; Aug. 29; Sp. p. 5372; Gaz. vol. 169; p. 991.
Spring-wheel. O. H. Hinds. No. 1,002,692; Sept. 5; Sp p. 1129; Gaz. vol. 170; p. 170.
Spring-wheel. J. E. Stannard. No. 1,003,158; Sept. 12; Sp. p. 2144; Gaz. vol. 170; p. 368.
Spring-wheel. E. G. Glaser. No. 1,003,596; Sept. 19; Sp. p. 3080; Gaz. vol. 170; p. 555.
Spring-wheel. H. Laubersheimer. No. 1,003,619; Sept. 19; Sp. p. 3127; Gaz. vol. 170; p. 564.
Spring-wheel. A. J. Swing. No. 1,003,668; Sept. 19; Sp. p. 3224; Gaz. vol. 170; p. 581.
Spring-wheel. L. Johnstone. No. 1,006,384; Oct. 17; Sp. p. 4007; Gaz. vol. 171; p. 698.
Spring-wheel. R. C. Jarvis. No. 1,007,032; Oct. 24; Sp. p. 5439; Gaz. vol. 171; p. 953.
Spring-wheel. G. B. Livingston. No. 1,007,121; Oct. 31; Sp. p. 5658; Gaz. vol. 171; p. 1039.
Spring-wheel. C. Scheuner. No. 1,007,392; Oct. 31; Sp. p. 6248; Gaz. vol. 171; p. 1137.
Spring-wheel. G. A. and S. E. Siders. No. 1,008,375; Nov. 14; Sp. p. 1657; Gaz. vol. 172; p. 295.
Spring-wheel. E. G. Owen. No. 1,009,169; Nov. 21; Sp. p. 3413; Gaz. vol. 172; p. 603.
Spring-wheel. J. C. Rinehart. No. 1,010,688; Dec. 5; Sp. p. 628; Gaz. vol. 173; p. 101.
Spring-wheel. C. E. Dunham. No. 1,011,171; Dec. 12; Sp. p. 1744; Gaz. vol. 173; p. 304.
Spring-wheel. W. Morris. No. 1,011,638; Dec. 12; Sp. p. 2829; Gaz. vol. 173; p. 472.
Spring-wheel. P. F. Van Keep. No. 1,012,033; Dec. 19; Sp. p. 3688; Gaz. vol. 173; p. 642.
Spring-wheel. E. M. Larson. No. 1,012,374; Dec. 19; Sp. p. 4425; Gaz. vol. 173; p. 758.
Spring-wheel and tire. G. L. Hays. No. 997,388; July 11; Sp. p. 1656; Gaz. vol. 168; p. 300.
Spring-wheel, Road-vehicle. G. Bird. No. 1,006,350; Oct. 17; Sp. p. 3928; Gaz. vol. 171; p. 686.
Springs, Applying bands onto leaf-. J. R. Blakeslee. No. 988,432; Apr. 4; Sp. p. 304; Gaz. vol. 165; p. 50.
Springs, Machine for applying bands on leaf-. J. R. Blakeslee. No. 1,008,941; Nov. 14; Sp. p. 2930; Gaz. vol. 172; p. 489.
Springwork. G. Mueller. No. 995,277; June 13; Sp. p. 2544; Gaz. vol. 167; p. 440.
Sprinkler: *See* Automatic sprinkler; Clothes-sprinkler; Fire-sprinkler; Lawn-sprinkler; Water-sprinkler.
Sprinkler. W. H. Stow and N. Vickery. No. 987,413; Mar. 21; Sp. p. 3499; Gaz. vol. 164; p. 625.
Sprinkler-alarm apparatus. J. R. Hamilton. No. 1,006,548; Oct. 24; Sp. p. 4414; Gaz. vol. 171; p. 787.
Sprinkler-head, Automatic. J. R. Hamilton. No. 998,574; July 18; Sp. p. 4282; Gaz. vol. 168; p. 756.

Alphabetical list of inventions—Continued.

Sprinkler-head shut-off device. A. C. Seeger. No. 986,228; Mar. 7; Sp. p. 972; Gaz. vol. 164; p. 158.
Sprinkler, Liquid-distributing. H. Pauling. No. 1,002,748; Sept. 5; Sp. p. 1268; Gaz. vol. 170; p. 190.
Sprinkler system, Automatic. A. M. Granger. No. 994,255; June 6; Sp. p. 316; Gaz. vol. 167; p. 55.
Sprinkler system, Automatic. E. L. Thompson. No. 998,934; July 25; Sp. p. 5109; Gaz. vol. 168; p. 916.
Sprinkling apparatus. N. Bacigalupi. No. 1,008,004; Nov. 7; Sp. p. 780; Gaz. vol. 172; p. 123.
Sprinkling apparatus, Liquid-. J. Collinge. No. 984,350; Feb. 14; Sp. p. 2378; Gaz. vol. 163; p. 402.
Sprinkling device. L. A. Carpenter and R. Middleton. No. 998,232; July 18; Sp. p. 3548; Gaz. vol. 168; p. 636.
Sprinkling device, Automatic. B. F. Ford. No. 1,002,381; Sept. 5; Sp. p. 467; Gaz. vol. 170; p. 66.
Sprinkling-machine. E. Tomer. No. 984,455; Feb. 14; Sp. p. 2584; Gaz. vol. 163; p. 437.
Sprocket driving mechanism. S. A. Crowder. No. 984,509; Feb. 14; Sp. p. 2709; Gaz. vol. 163; p. 455.
Sprocket-wheel. W. W. Willson. No. 994,896; June 13; Sp. p. 1779; Gaz. vol. 167; p. 313.
Spun and woven goods, Producing multicolored effects in. M. Becke. No. 1,002,118; Aug. 29; Sp. p. 6219; Gaz. vol. 169; p. 1124.
Spur. F. C. Monier. No. 987,905; Mar. 28; Sp. p. 4562; Gaz. vol. 164; p. 822.
Spur. J. Ptaschinski. No. 1,006,501; Oct. 24; Sp. p. 4291; Gaz. vol. 171; p. 770.
Spur for driving-reins. M. L. Sund. No. 988,152; Mar. 28; Sp. p. 5106; Gaz. vol. 164; p. 905.
Sputum-cup. C. L. Knudsen. No. 982,211; Jan. 17; Sp. p. 4495; Gaz. vol. 162; p. 754.
Sputum-cup. J. Greenwood. No. 994,918; June 13; Sp. p. 1830; Gaz. vol. 167; p. 322.
Square. T. W. McCormick. No. 981,867; Jan. 17; Sp. p. 3766; Gaz. vol. 162; p. 637.
Square. S. D. Hastings and G. J. Engert. No. 990,355; Apr. 25; Sp. p. 4447; Gaz. vol. 165; p. 787.
Square. A. L. Gipson. No. 991,714; May 9; Sp. p. 1925; Gaz. vol. 166; p. 346.
Square. N. B. McGrath. (Reissue.) No. 13,236; May 9; Sp. p. 2760; Gaz. vol. 166; p. 489.
Square and bevel. J. T. Urbach. No. 1,000,133; Aug. 8; Sp. p. 1947; Gaz. vol. 169; p. 350.
Square and bevel, Combined. A. Lindstrom. No. 992,722; May 16; Sp. p. 4043; Gaz. vol. 166; p. 722.
Square and bevel-protractor, Combined. L. S. Starrett. No. 980,362; Jan. 3; Sp. p. 372; Gaz. vol. 162; p. 66.
Square and protractor, Combination. E. Oehrle. No. 1,010,678; Dec. 5; Sp. p. 612; Gaz. vol. 173; p. 97.
Square and protractor, T-. C. O. Melick. No. 1,010,664; Dec. 5; Sp. p. 579; Gaz. vol. 173; p. 93.
Square and rule, Combined. P. B. Oats. No. 988,652; Apr. 4; Sp. p. 780; Gaz. vol. 165; p. 125.
Square, Combination try-. G. A. Brown. No. 991,693; May 9; Sp. p. 1881; Gaz. vol. 166; p. 339.
Square, Die-maker's. F. J. Badge. No. 984,995; Feb. 21; Sp. p. 3722; Gaz. vol. 163; p. 658.
Square, Folding. A. J. Grissom. No. 987,873; Mar. 28; Sp. p. 4467; Gaz. vol. 164; p. 811.
Square, Folding. J. H. Carey. No. 1,002,562; Sept. 5; Sp. p. 855; Gaz. vol. 170; p. 126.
Square, Knockdown carpenter's. J. L. Noble. No. 991,076; May 2; Sp. p. 515; Gaz. vol. 166; p. 89.
Square, Knockdown carpenter's. A. A. Harvie. No. 1,008,262; Nov. 7; Sp. p. 1323; Gaz. vol. 172; p. 216.
Square, Miter-. F. Jones and R. R. Hilton. No. 1,004,434; Sept. 26; Sp. p. 4950; Gaz. vol. 170; p. 870.
Square, Roof-framing. H. H. Criss. No. 1,007,539; Oct. 31; Sp. p. 6563; Gaz. vol. 171; p. 1186.
Square, Separable. L. Brodt. No. 981,372; Jan. 10; Sp. p. 2737; Gaz. vol. 162; p. 444.
Square, Separable. V. C. Rosenberger. No. 982,636; Jan. 24; Sp. p. 5395; Gaz. vol. 162; p. 931.
Square, Separable steel. J. A. Wray. No. 985,314; Feb. 28; Sp. p. 4457; Gaz. vol. 163; p. 802.
Square, Set-off. P. Roch and E. Challet. No. 980,340; Jan. 3; Sp. p. 320; Gaz. vol. 162; p. 57.
Square, Stair-builder's. T. J. Smith. No. 985,950; Mar. 7; Sp. p. 413; Gaz. vol. 164; p. 66.
Square, Tailor's. J. Bauernfeind. No. 999,359; Aug. 1; Sp. p. 333; Gaz. vol. 169; p. 59.
Square, Take-down. E. L. Gardner. No. 994,148; June 6; Sp. p. 90; Gaz. vol. 167; p. 17.
Square, Try-. A. W. Benskin. No. 985,132; Feb. 28; Sp. p. 4011; Gaz. vol. 163; p. 739.
Squares and the like, Hardening carpenters'. A. A. Harvie. No. 1,008,261; Nov. 7; Sp. p. 1321; Gaz. vol. 172; p. 216.
Squares, Angle-gage for. F. E. Smith. No. 1,001,316; Aug. 22; Sp. p. 4562; Gaz. vol. 169; p. 826.
Squeegee-head. W. A. Field. No. 999,442; Aug. 1; Sp. p. 491; Gaz. vol. 169; p. 86.
Squeezer. R. B. Gilchrist. No. 980,628; Jan. 3; Sp. p. 963; Gaz. vol. 162; p. 157.
Squeezer. J. P. Roe. No. 985,451; Feb. 28; Sp. p. 4774; Gaz. vol. 163; p. 848.
Squirrel-exterminator. J. M. Bourn. No. 997,266; July 11; Sp. p. 1412; Gaz. vol. 168; p. 260.
Stable-cleaning means. L. M. Brundage. No. 990,700; Apr. 25; Sp. p. 5255; Gaz. vol. 165; p. 907.
Stack-cover, Corrugated galvanized. F. W. Martin. No. 989,624; Apr. 18; Sp. p. 2864; Gaz. vol. 165; p. 506.
Stacker. G. de Wattripont. No. 988,682; Apr. 4; Sp. p. 837; Gaz. vol. 165; p. 135.
Stacker and elevator, Straw. A. Rosenthal. No. 992,806; May 23; Sp. p. 4222; Gaz. vol. 166; p. 780.
Stacker attachment, Hay-. E. B. Shields and W. L. McGuire. No. 995,918; June 20; Sp. p. 3985; Gaz. vol. 167; p. 692.
Stacker attachment, Pneumatic-. F. L. Reising. No. 994,788; June 13; Sp. p. 1509; Gaz. vol. 167; p. 277.
Stacker fork, Hay-. G. L. Curtis. No. 988,628; Apr. 4; Sp. p. 733; Gaz. vol. 165; p. 117.
Stacker, Hay-. M. K. Maul. No. 994,324; June 6; Sp. p. 458; Gaz. vol. 167; p. 78.
Stacker, Hay-. J. H. Anderson. No. 1,003,390; Sept. 12; Sp. p. 2622; Gaz. vol. 170; p. 450.
Stacker, Hay-. E. B. Rock. No. 1,006,285; Oct. 17; Sp. p. 3799; Gaz. vol. 171; p. 666.
Stacker, Hay-. J. Howard. No. 1,006,850; Oct. 24; Sp. p. 5062; Gaz. vol. 171; p. 892.
Stacker, Pneumatic. J. E. Foster. No. 984,549; Feb. 21; Sp. p. 2828; Gaz. vol. 163; p. 504.
Stacker, Pneumatic. F. L. Sattley. No. 989,296; Apr. 11; Sp. p. 2129; Gaz. vol. 165; p. 363.
Stacker, Pneumatic. W. Watts. No. 994,808; June 13; Sp. p. 1551; Gaz. vol. 167; p. 284.
Stacker, Pneumatic. W. F. MacGregor. No. 997,307; July 11; Sp. p. 1507; Gaz. vol. 168; p. 274.
Stacker, Pneumatic. F. L. Sattley. No. 997,936; July 11; Sp. p. 2866; Gaz. vol. 168; p. 489.
Stacker, Pneumatic. W. R. Miller. No. 1,000,032; Aug. 8; Sp. p. 1681; Gaz. vol. 169; p. 315.
Stacker, Portable adjustable hay-. G. Heedwell and W. F. McNew. No. 984,670; Feb. 21; Sp. p. 3077; Gaz. vol. 163; p. 545.
Stacker, Wind-. G. E. Richmond. No. 994,338; June 6; Sp. p. 486; Gaz. vol. 167; p. 83.
Stackers, Hay-retaining device for hay-. J. O. McCreery. No. 983,156; Jan. 31; Sp. p. 6515; Gaz. vol. 162; p. 1133.
Stage apparatus. J. A. Van Sant. No. 984,322; Feb. 14; Sp. p. 2322; Gaz. vol. 163; p. 393.
Stage-scenery elevating and lowering device. C. L. Hagen. No. 1,002,839; Sept. 12; Sp. p. 1459; Gaz. vol. 170; p. 259.
Staging. A. H. Botsford. No. 1,007,843; Nov. 7; Sp. p. 461; Gaz. vol. 172; p. 69.
Stair, Counterbalanced. J. Halsted. No. 1,009,241; Nov. 21; Sp. p. 3610; Gaz. vol. 172; p. 630.
Stair-covering. J. D. Perrott. No. 989,409; Apr. 11; Sp. p. 2369; Gaz. vol. 165; p. 400.
Stair-gage. W. H. Wiegman. No. 1,006,815; Oct. 24; Sp. p. 4976; Gaz. vol. 171; p. 381.
Stair, Moving. A. Swanson. No. 988,910; Apr. 4; Sp. p. 1295; Gaz. vol. 165; p. 208.
Stair-rails, System of laying out. C. C. Grant. No. 995,863; June 20; Sp. p. 3878; Gaz. vol. 167; p. 673.
Stair-rods and the like, Bracket for. J. Kroder. No. 980,646; Jan. 3; Sp. p. 1003; Gaz. vol. 162; p. 163.
Staircase. F. A. Winslow. No. 989,095; Apr. 11; Sp. p. 1691; Gaz. vol. 165; p. 294.
Staircase. T. Beevers. No. 996,903; July 4; Sp. p. 633; Gaz. vol. 168; p. 103.
Stairway. A. B. Todd. No. 1,002,096; Aug. 29; Sp. p. 6180; Gaz. vol. 169; p. 1117.
Stairway construction. J. Oman. No. 987,737; Mar. 28; Sp. p. 4184; Gaz. vol. 164; p. 764.
Stairways, Runway for. E. V. Carter. No. 981,613; Jan. 17; Sp. p. 3235; Gaz. vol. 162; p. 549.
Staking-machines, Breast-roll for. M. Steinharter. No. 999,472; Aug. 1; Sp. p. 543; Gaz. vol. 169; p. 96.
Staking-tool. G. W. Bowers. No. 990,422; Apr. 25; Sp. p. 4626; Gaz. vol. 165; p. 813.
Staking-tool. F. B. Kendrick. No. 992,206; May 16; Sp. p. 2915; Gaz. vol. 166; p. 542.
Staking-tool. G. W. Bowers. No. 996,053; June 27; Sp. p. 4258; Gaz. vol. 167; p. 774.
Staking-tool. G. W. Bowers. No. 996,054; June 27; Sp. p. 4262; Gaz. vol. 167; p. 774.
Stalk-chopper. W. A. J. Brown. No. 983,477; Feb. 7; Sp. p. 475; Gaz. vol. 163; p. 75.
Stalk-chopping roller. W. W. Lowe. No. 992,017; May 9; Sp. p. 2509; Gaz. vol. 166; p. 446.
Stalk-crop-handling machine. J. B. Schuman. No. 987,406; Mar. 21; Sp. p. 3488; Gaz. vol. 164; p. 623.
Stalk-cutter. D. McDowell. No. 987,311; Mar. 21; Sp. p. 3291; Gaz. vol. 164; p. 591.
Stalk-cutter. C. A. Wilson. No. 988,844; Apr. 4; Sp. p. 1175; Gaz. vol. 165; p. 187.
Stalk-cutter. C. Harper. No. 990,731; Apr. 25; Sp. p. 5318; Gaz. vol. 165; p. 917.
Stalk-cutter. J. L. Bird. No. 991,601; May 9; Sp. p. 1673; Gaz. vol. 166; p. 307.
Stalk-cutter. R. A. Matthews. No. 992,023; May 9; Sp. p. 2520; Gaz. vol. 166; p. 448.
Stalk-cutter. T. H. Walker. No. 992,699; May 16; Sp. p. 3996; Gaz. vol. 166; p. 713.
Stalk-cutter. B. P. Harrington. No. 1,000,262; Aug. 8; Sp. p. 2211; Gaz. vol. 169; p. 393.

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Stalk-cutter. O. F. Scott. No. 1,002,605; Sept. 5; Sp. p. 952; Gaz. vol. 170; p. 141.
Stalk-cutter. E. B. Buehler. No. 1,006,462; Oct. 24; Sp. p. 4192; Gaz. vol. 171; p. 755.
Stalk-cutter. J. C. Bascue. No. 1,007,631; Oct. 31; Sp. p. 6772; Gaz. vol. 171; p. 1217.
Stalk-cutter. A. W. Buchanan. No. 1,007,916; Nov. 7; Sp. p. 616; Gaz. vol. 172; p. 95.
Stalk-cutter and harrow, Combined. H. P. Harris. No. 1,005,830; Oct. 17; Sp. p. 2756; Gaz. vol. 171; p. 503.
Stalk cutter, Cotton-. R. A. and C. F. Leatherwood. No. 1,011,128; Dec. 5; Sp. p. 1608; Gaz. vol. 173; p. 254.
Stalk-puller. H. Asbell. No. 1,004,523; Sept. 26; Sp. p. 5115; Gaz. vol. 170; p. 901.
Stalk-shredder. H. W. Vail. No. 993,001; May 23; Sp. p. 4660; Gaz. vol. 166; p. 850.
Stall. W. L. Root. No. 1,004,202; Sept. 26; Sp. p. 4478; Gaz. vol. 170; p. 792.
Stall, Animal-. H. L. Ferris. No. 988,561; Apr. 4; Sp. p. 577; Gaz. vol. 165; p. 93.
Stall, Cow-. M. S. Batchelder. No. 1,009,714; Nov. 28; Sp. p. 4621; Gaz. vol. 172; p. 839.
Stamp-actuating means. H. C. Behr. No. 1,012,187; Dec. 19; Sp. p. 4033; Gaz. vol. 173; p. 694.
Stamp-affixer. A. Schermack. No. 993,624; May 30; Sp. p. 6003; Gaz. vol. 166; p. 1092.
Stamp-affixer. W. F. Schweiger and B. D. Straight. No. 999,884; Aug. 8; Sp. p. 1378; Gaz. vol. 169; p. 264.
Stamp-affixer. W. F. Schweiger and B. D. Straight No. 1,012,021; Dec. 19; Sp. p. 3652; Gaz. vol. 173; p. 637.
Stamp-affixing and envelop-sealing machine. F. R. S. Ditmars. No. 1,001,001; Aug. 22; Sp. p. 3890; Gaz. vol. 169; p. 718.
Stamp-affixing device. C. L. Peters. No. 981,305; Jan. 10; Sp. p. 2596; Gaz. vol. 162; p. 422.
Stamp-affixing machine. F. W. Storck. No. 993,732; May 30; Sp. p. 6253; Gaz. vol. 166; p. 1129.
Stamp-affixing machine. J. F. Cummings. No. 1,004,150; Sept. 26; Sp. p. 4370; Gaz. vol. 170; p. 775.
Stamp-affixing machine. B. Ivor. No. 1,005,843; Oct. 17; Sp. p. 2785; Gaz. vol. 171; p. 507.
Stamp-affixing machine, Postage-. J. F. Cummings. No. 986,047; Mar. 7; Sp. p. 626; Gaz. vol. 164; p. 100.
Stamp aliner, Rubber-. O. E. Kellum. No. 1,001,151; Aug. 22; Sp. p. 4212; Gaz. vol. 169; p. 770.
Stamp and label. W. T. Erickson. No. 1,003,443; Sept. 19; Sp. p. 2737; Gaz. vol. 170; p. 502.
Stamp-batteries for crushing or milling ores, Apparatus for removing dies, heads, &c., from. F. Thomas. No. 993,473; May 30; Sp. p. 5674; Gaz. vol. 166; p. 1038.
Stamp-box. H. F. Fraser. No. 981,186; Jan. 10; Sp. p. 2301; Gaz. vol. 162; p. 386.
Stamp-canceling and postmarking machine. W. D. Doremus. No. 982,579; Jan. 24; Sp. p. 5283; Gaz. vol. 162; p. 912.
Stamp, Computing time-. J. C. Wilson. No. 1,008,763; Nov. 14; Sp. p. 2557; Gaz. vol. 172; p. 431.
Stamp-cutting machine. S. T. Tracy and A. M. Moylan. No. 989,734; Apr. 18; Sp. p. 3087; Gaz. vol. 165; p. 543.
Stamp, Dating-. A. D. Joslin. No. 986,424; Mar. 7; Sp. p. 1406; Gaz. vol. 164; p. 227.
Stamp, Dating-. J. Blitz, Dzn. No. 988,242; Mar. 28; Sp. p. 5270; Gaz. vol. 164; p. 935.
Stamp, Dating-. A. D. Joslin. No. 1,011,063; Dec. 5; Sp. p. 1449; Gaz. vol. 173; p. 229.
Stamp, Duplicating-. E. D. Bosworth and A. C. Staley. No. 984,533; Feb. 21; Sp. p. 2795; Gaz. vol. 163; p. 499.
Stamp for marking parcels, letters, &c., Rotating hand-. O. Kjeldaas. No. 983,066; Jan. 31; Sp. p. 6357; Gaz. vol. 162; p. 1105.
Stamp, Hand-. A. Lowe and A. J. Seger. No. 983,153; Jan. 31; Sp. p. 6511; Gaz. vol. 162; p. 1132.
Stamp, Hand-. E. Fisher. No. 990,719; Apr. 25; Sp. p. 5297; Gaz. vol. 165; p. 913.
Stamp, Hand-. H. S. Folger. No. 996,010; June 20; Sp. p. 4162; Gaz. vol. 167; p. 724.
Stamp, Hand-. C. E. Norin and A. C. Rothoff. No. 999,846; Aug. 8; Sp. p. 1285; Gaz. vol. 169; p. 250.
Stamp, Hand-. A. D. Joslin. No. 1,000,918; Aug. 15; Sp. p. 3658; Gaz. vol. 169; p. 657.
Stamp, Hand-. H. S. Folger and A. M. Comstock. No. 1,011,044; Dec. 5; Sp. p. 1403; Gaz. vol. 173; p. 223.
Stamp, Hand receipt-. M. Reintanz and A. Rothe. No. 997,850; July 11; Sp. p. 2672; Gaz. vol. 168; p. 459.
Stamp-handle. A. H. Rogers. No. 1,001,689; Aug. 29; Sp. p. 5320; Gaz. vol. 169; p. 982.
Stamp-handling device. R. W. Jones. No. 1,003,267; Sept. 12; Sp. p. 2383; Gaz. vol. 170; p. 410.
Stamp machine, Hand-. F. Wosinski. No. 986,338; Mar. 7; Sp. p. 1211; Gaz. vol. 164; p. 196.
Stamp-mill. E. P. Dargin. No. 985,012; Feb. 21; Sp. p. 3760; Gaz. vol. 163; p. 663.
Stamp-mill. J. W. Pinder. No. 995,713; June 20; Sp. p. 3527; Gaz. vol. 167; p. 621.
Stamp-mill cam. H. Bolthoff. No. 995,436; June 20; Sp. p. 2927; Gaz. vol. 167; p. 522.
Stamp-mill-operating mechanism. W. E. Kimber. No. 1,001,282; Aug. 22; Sp. p. 4471; Gaz. vol. 169; p. 812.
Stamp-mill screen. D. C. En Earl. No. 1,008,804; Nov. 14; Sp. p. 2654; Gaz. vol. 172; p. 445.
Stamp or label affixing machine. J. Muldoon. No. 1,007,595; Oct. 31; Sp. p. 6690; Gaz. vol. 171; p. 1205.
Stamp-seller, Coin-controlled. A. Bolli and L. Lichtinger. No. 1,010,577; Dec. 5; Sp. p. 397; Gaz. vol. 173; p. 62.
Stamp severing and applying apparatus. C. I. Michaelson. No. 994,085; May 30; Sp. p. 6960; Gaz. vol. 166; p. 1248.
Stamp-shoe. C. L. Lawton. No. 1,012,664; Dec. 26; Sp. p. 5019; Gaz. vol. 173; p. 901.
Stamp, Time-. C. S. Ellis. No. 982,203; Jan. 17; Sp. p. 4475; Gaz. vol. 162; p. 751.
Stamp, Time-. F. Purdy. No. 991,240; May 2; Sp. p. 876; Gaz. vol. 166; p. 149.
Stamp, Time-. C. E. Clarke. No. 1,007,672; Nov. 7; Sp. p. 25; Gaz. vol. 172; p. 8.
Stamp, Time, date, or amount. G. Gehring. No. 1,011,049; Dec. 5; Sp. p. 1415; Gaz. vol. 173; p. 225.
Stamp, Trading-. J. Martin and H. Fietsch, Jr. No. 1,004,055; Sept. 26; Sp. p. 4123; Gaz. vol. 170; p. 741.
Stamps and paper strips, Apparatus for dispensing postage-. J. Morris. No. 991,738; May 9; Sp. p. 1961; Gaz. vol. 166; p. 352.
Stamps, Band dating attachment for self-inking hand-. H. S. Folger and A. M. Comstock. No. 1,005,632; Oct. 10; Sp. p. 2342; Gaz. vol. 171; p. 402.
Stamps, &c., Machine for counting and checking. P. G. E. Daniel and C. A. H. Bullock. No. 981,387; Jan. 10; Sp. p. 2767; Gaz. vol. 162; p. 449.
Stamps, Machine for preparing rolls of postage-. L. M. Parkhurst. No. 983,759; Feb. 7; Sp. p. 1074; Gaz. vol. 163; p. 172.
Stamps or labels to bakers' products, Means for affixing. M. Feist. No. 998,164; July 18; Sp. p. 3380; Gaz. vol. 168; p. 611.
Stamping and other press. W. H. Hibbard. No. 992,771; May 23; Sp. p. 4146; Gaz. vol. 166; p. 767.
Stamping and severing machine, Blank. G. Charleton. No. 982,475; Jan. 24; Sp. p. 5090; Gaz. vol. 162; p. 878.
Stamping-machine. B. S. Bredell. No. 998,274; July 18; Sp. p. 3647; Gaz. vol. 168; p. 652.
Stamping-machine. C. A. Myers. No. 1,006,117; Oct. 17; Sp. p. 3385; Gaz. vol. 171; p. 604.
Stamping-machine attachment. G. E. Earn. No. 989,523; Apr. 11; Sp. p. 2607; Gaz. vol. 165; p. 440.
Stamping machine, Can-. J. F. White. No. 1,006,814; Oct. 24; Sp. p. 4973; Gaz. vol. 171; p. 881.
Stamping-machine, Check-controlled. P. Lamberti. No. 1,000,613; Aug. 15; Sp. p. 3020; Gaz. vol. 169; p. 550.
Stamping-machine, Power. W. J. Murphy. No. 985,623; Feb. 28; Sp. p. 5142; Gaz. vol. 163; p. 908.
Stamping, marking, or numbering machine. F. W. Merrick. No. 984,588; Feb. 21; Sp. p. 2906; Gaz. vol. 163; p. 517.
Stamping-pad. D. A. McKinnon. No. 1,007,589; Oct. 31; Sp. p. 6680; Gaz. vol. 171; p. 1203.
Stamping-presses, Safety-guard for. J. M. Jones. No. 1,005,775; Oct. 10; Sp. p. 2630; Gaz. vol. 171; p. 453.
Stanchion. F. H. Perry. No. 983,761; Feb. 7; Sp. p. 1081; Gaz. vol. 163; p. 173.
Stanchion. A. F. A. Tidyman. No. 987,269; Mar. 21; Sp. p. 3195; Gaz. vol. 164; p. 577.
Stanchion. S. C. Swift. No. 988,602; Apr. 4; Sp. p. 672; Gaz. vol. 165; p. 108.
Stanchion. A. Shaw. No. 989,434; Apr. 11; Sp. p. 2421; Gaz. vol. 165; p. 408.
Stanchion. H. L. Ferris. No. 999,364; Aug. 1; Sp. p. 342; Gaz. vol. 169; p. 60.
Stanchion. J. B. Oleson. No. 1,001,071; Aug. 22; Sp. p. 4057; Gaz vol. 169; p. 745.
Stanchion. W. L. Wagner. No. 1,005,489; Oct. 10; Sp. p. 1999; Gaz. vol. 171; p. 352.
Stanchion. H. Ramminger. No. 1,008,492; Nov. 14; Sp. p. 1961; Gaz. vol. 172; p. 336.
Stanchion. C. Titrud. No. 1,009,807; Nov. 28; Sp. p. 4809; Gaz. vol. 172; p. 871.
Stanchion, Cattle-. C. O. Braun. No. 987,040; Mar. 14; Sp. p. 2682; Gaz. vol. 164; p. 464.
Stanchion, Cattle-. W. Louden. No. 990,827; Apr. 25; Sp. p. 5519; Gaz. vol. 165; p. 950.
Stanchion, Cattle-. C. W. Wasson and L. M. Wait. No. 990,933; May 2; Sp. p. 224; Gaz. vol. 166; p. 39.
Stanchion, Cattle-. W. Stuckey. No. 991,558; May 9; Sp. p. 1573; Gaz. vol. 166; p. 291.
Stanchion, Cattle-. W. Maude. No. 995,072; June 13; Sp. p. 2155; Gaz. vol. 167; p. 374.
Stanchion, Cattle-. L. Champion. No. 999,958; Aug. 8; Sp. p. 1536; Gaz. vol. 169; p. 290.
Stanchion, Cow-. F. A. Brundage. No. 1,011,024; Dec. 5; Sp. p. 1362; Gaz. vol. 173; p. 217.
Stanchion, Self-closing. H. H. Reed. No. 901,021; May 2; Sp. p. 404; Gaz. vol. 166; p. 69.
Stanchion-supporting frame. W. D. James. No. 1,002,275; Sept. 5; Sp. p. 197; Gaz. vol. 170; p. 26.

Alphabetical list of inventions—Continued.

Stand: *See* Adjustable stand; Bicycle-stand; Book-stand; Christmas-tree stand; Coat-stand; Counterbalanced stand; Cycle-stand; Display-stand; Dress-fitter's stand; Flat-iron stand; Fly-paper stand; Folding stand; Hat-trimming stand; Hod-stand; Ice-cream stand; Motor and machine stand; Music-stand; Oil-burner stand; Plumber's stand; Pole-stand; Pump-stand; Railway-switch stand; Spool-stand; Storage-stand; Supporting and tipping stand; Switch-stand; Tantalus-stand; Trolley-stand; Umbrella-stand; Vehicle assembly-stand.
Stand-pipe. M. M. Moore. No. 1,000,104; Aug. 8; Sp. p. 1880; Gaz. vol. 169; p. 340.
Standard. P. O. Hatfield. No. 987,718; Mar. 28; Sp. p. 4146; Gaz. vol. 164; p. 758.
Staple. J. R. Wheeler. No. 984,629; Feb. 21; Sp. p. 3002; Gaz. vol. 163; p. 532.
Staple driver and extractor. J. K. Bigelow. No. 985,135; Feb. 28; Sp. p. 4016; Gaz. vol. 163; p. 740.
Staple-feeding mechanism. O. S. Sturtevant. No. 987,024; Mar. 14; Sp. p. 2655; Gaz. vol. 164; p. 459.
Staple forming and clenching machine. G. M. Walker. No. 1,007,258; Oct. 31; Sp. p. 5966; Gaz. vol. 171; p. 1089.
Staple forming and discharging mechanism. V. Hoxie. No. 983,370; Feb. 7; Sp. p. 244; Gaz. vol. 163; p. 41.
Staple, Mooring-. L. Ashworth. No. 1,010,108; Nov. 28; Sp. p. 5430; Gaz. vol. 172; p. 973.
Staple-retainer. R. J. Herrick. No. 993,991; May 30; Sp. p. 6770; Gaz. vol. 166; p. 1216.
Staple-set. A. O. Highsmith. No. 992,962; May 23; Sp. p. 4589; Gaz. vol. 166; p. 837.
Staple-setting tool. A. J. Michel and J. M. Jones. No. 1,005,269; Oct. 10; Sp. p. 1517; Gaz. vol. 171; p. 275.
Staple-strip. E. H. Hotchkiss. No. 995,677; June 20; Sp. p. 3454; Gaz. vol. 167; p. 609.
Stapling-machines, Pamphlet-feeding device for. T. C. Dexter. No. 1,010,124; Nov. 28; Sp. p. 5461; Gaz. vol. 172; p. 979.
Stapling-machines, Wire feeding, straightening, and cutting mechanism for. H. Weber. No. 980,894; Jan. 3; Sp. p. 1558; Gaz. vol. 162; p. 246.
Stapling mechanism. E. P. Sheldon. No. 985,461; Feb. 28; Sp. p. 4797; Gaz. vol. 163; p. 852.
Stapling mechanism. G. W. Church. No. 993,649; May 30; Sp. p. 6057; Gaz. vol. 166; p. 1100.
Starch. B. Herstein. No. 982,673; Jan. 24; Sp. p. 5475; Gaz. vol. 162; p. 944.
Starch, Laundry. E. Weingärtner. No. 984,330; Feb. 14; Sp. p. 2344; Gaz. vol. 163; p. 396.
Starch, Manufacture of. L. P. Bauer and T. Speck. No. 986,540; Mar. 14; Sp. p. 1659; Gaz. vol. 164; p. 295.
Starch, Manufacture of. L. P. Bauer and T. Speck. No. 986,541; Mar. 14; Sp. p. 1664; Gaz. vol. 164; p. 296.
Starch, &c., Manufacturing. E. O. Eckland. No. 1,000,726; Aug. 15; Sp. p. 3258; Gaz. vol. 169; p. 589.
Starch, Preparing. F. Thörl. No. 990,929; May 2; Sp. p. 217; Gaz. vol. 166; p. 38.
Starch, Producing. J. J. Berrigan. No. 994,497; June 6; Sp. p. 811; Gaz. vol. 167; p. 137.
Starch-shovel. C. F. Black. No. 1,007,912; Nov. 7; Sp. p. 607; Gaz. vol. 172; p. 93.
Starch soluble in cold water, Manufacturing. J. Kantorowicz. No. 984,483; Feb. 14; Sp. p. 2637; Gaz. vol. 163; p. 446.
Starch, Steeping grain in the manufacture of. F. L. Jefferies. No. 1,007,782; Nov. 7; Sp. p. 294; Gaz. vol. 172; p. 47.
Starch, Washing and concentrating. F. L. Jefferies. No. 1,007,784; Nov. 7; Sp. p. 303; Gaz. vol. 172; p. 48.
Starch washing, separating, and concentrating apparatus. F. L. Jefferies. No. 1,007,785; Nov. 7; Sp. p. 307; Gaz. vol. 172; p. 48.
Starching-machine. E. E. Stone. No. 984,864; Feb. 21; Sp. p. 3478; Gaz. vol. 163; p. 615.
Starter, Automatic reversing. J. Höfle. No. 989,847; Apr. 18; Sp. p. 3343; Gaz. vol. 165; p. 583.
Starting and igniting mechanism, Safety. A. Winton. No. 1,011,693; Dec. 12; Sp. p. 2923; Gaz. vol. 173; p. 488.
Starting-burner. H. W. Gardner. No. 1,005,640; Oct. 10; Sp. p. 2359; Gaz. vol. 171; p. 405.
Starting device. C. E. Carpenter. No. 981,612; Jan. 17; Sp. p. 3231; Gaz. vol. 162; p. 549.
Starting device. J. P. Looney. No. 984,948; Feb. 21; Sp. p. 3645; Gaz. vol. 163; p. 642.
Starting device. L. H. Appelman. No. 1,003,861; Sept. 19; Sp. p. 3634; Gaz. vol. 170; p. 645.
Starting device. E. N. Ward. No. 1,004,508; Sept. 26; Sp. p. 5086; Gaz. vol. 170; p. 896.
Starting device. W. R. Dunkel. No. 1,004,635; Oct. 3; Sp. p. 185; Gaz. vol. 171; p. 32.
Starting device. W. R. Dunkel. No. 1,004,636; Oct. 3; Sp. p. 187; Gaz. vol. 171; p. 33.
Starting device. C. T. Leach and G. W. Canfield. No. 1,013,027; Dec. 26; Sp. p. 5867; Gaz. vol. 173; p. 1026.
Starting mechanism. H. F. Whalton. No. 1,010,835; Dec. 5; Sp. p. 973; Gaz. vol. 173; p. 152.
Station-indicator. B. Kende. No. 983,145; Jan. 31; Sp. p. 6496; Gaz. vol. 162; p. 1129.
Station-indicator. L. O. Wisenberg. No. 1,002,352; Sept. 5; Sp. p. 399; Gaz. vol. 170; p. 57.
Station-indicator. C. G. Rehg. No. 1,007,976; Nov. 7; Sp. p. 729; Gaz. vol. 172; p. 114.
Station indicator and signal. C. W. Faris. No. 983,487; Feb. 7; Sp. p. 494; Gaz. vol. 163; p. 79.
Station indicator or advertiser. B. R. Skinner. No. 991,904; May 9; Sp. p. 2289; Gaz. vol. 166; p. 408.
Station-indicators or the like, Actuating mechanism for. O. E. Kellum and T. P. Wilson. No. 992,735; May 16; Sp. p. 4069; Gaz. vol. 166; p. 727.
Station or street indicator. A. Verhoeven and W. R. Oliver. No. 988,839; Apr. 4; Sp. p. 1166; Gaz. vol. 165; p. 186.
Stationery-holder. J. F. Walter. No. 985,235; Feb. 28; Sp. p. 4293; Gaz. vol. 163; p. 776.
Stator-coil support. E. Mattman. No. 996,270; June 27; Sp. p. 4776; Gaz. vol. 167; p. 847.
Stave-jointer. J. H. Simmons. No. 984,038; Feb. 14; Sp. p. 1719; Gaz. vol. 163; p. 296.
Stave-jointing machine. H. R. McNeill and J. Clement. No. 984,229; Feb. 14; Sp. p. 2131; Gaz. vol. 163; p. 361.
Stave-jointing machine, Barrel-. J. L. Preston. No. 1,011,368; Dec. 12; Sp. p. 2190; Gaz. vol. 173; p. 373.
Stay. J. Duquette. No. 997,659; July 11; Sp. p. 2219; Gaz. vol. 168; p. 392.
Stay-bolt. B. E. D. Stafford. No 980,696; Jan. 3; Sp. p. 1122; Gaz. vol. 162; p. 179.
Stay-bolt. E. W. Clark. No. 1,003,705; Sept. 19; Sp. p. 3320; Gaz. vol. 170; p. 594.
Stay-bolt. G. S. Thompson. No. 1,004,937; Oct. 3; Sp. p. 839; Gaz. vol. 171; p. 137.
Stay-bolt, Flexible. H. W. Uhl. No. 996,167; June 27; Sp. p. 4496; Gaz. vol. 167; p. 813.
Stay-bolt, Flexible. J. W. Keeley. No. 1,000,014; Aug. 8; Sp. p. 1648; Gaz. vol. 169; p. 309.
Stay-bolt, Flexible. F. G. Hunter. No. 1,008,717; Nov. 14; Sp. p. 2458; Gaz. vol. 172; p. 416.
Stay-bolt for boilers, Flexible. B. E. D. Stafford. No. 984,863; Feb. 21; Sp. p. 3476; Gaz. vol. 163; p. 614.
Stay-bolt for boilers, Flexible. B. E. D. Stafford. No. 999,898; Aug. 8; Sp. p. 1419; Gaz. vol 169; p. 270.
Stay-bolt for boilers, Flexible. B. E. D. Stafford. No. 1,000,046; Aug. 8; Sp. p. 1711; Gaz. vol. 169; p. 320.
Stay-bolt for steam-boilers. P. J. Connors. No 987,431; Mar. 21; Sp. p. 3530; Gaz. vol. 164; p. 631.
Stay-bolt, Locomotive-boiler. T. H. Curtis. No. 1,002,229; Sept. 5; Sp. p. 82; Gaz. vol. 170; p. 10.
Stay-bolt, Steam-boiler. T. H. Curtis. No. 1,002,230; Sept. 5; Sp. p. 83; Gaz. vol. 170; p. 10.
Stay, Corset-. H. M. McCormick. No. 1,006,862; Oct. 24; Sp. p. 5088; Gaz. vol. 171; p. 897.
Stay, Corset-. S. Weber-McCormick. No. 1,006,888; Oct. 24; Sp. p. 5159; Gaz. vol. 171; p. 906.
Stay-iron. E. J. Wells. No. 991,573; May 9; Sp. p. 1607; Gaz. vol. 166; p. 296.
Stay, Wire garment-. W. E. Barnes. No. 985,124; Feb. 28; Sp. p. 3995; Gaz. vol. 163; p. 736.
Stays, Making garment-. M. M. Beeman. No. 1,002,488; Sept. 5; Sp. p. 698; Gaz. vol. 170; p. 102.
Steam and hot-air heater, Combined. J. Demarest. No. 999,756; Aug. 8; Sp. p. 1117; Gaz. vol. 169; p. 221.
Steam and water separator. F. W. Born. No. 999,481; Aug. 1; Sp. p. 560; Gaz. vol. 169; p. 98.
Steam, Apparatus for generating and controlling the generation of superheated. R. H. White. No. 987,933; Mar. 28; Sp. p. 4637; Gaz. vol. 164; p. 832.
Steam, Apparatus for regulating the supply of. J. F. Hey. No. 1,001,199; Aug. 22; Sp. p. 4311; Gaz. vol. 169; p. 786.
Steam-boiler. J. E. Fernstrum. No. 981,078; Jan. 10; Sp. p. 2071; Gaz. vol. 162; p. 341.
Steam-boiler. E. D. Caldwell. No. 982,347; Jan. 24; Sp. p. 4804; Gaz. vol. 162; p 832.
Steam-boiler. R. Mackay. No. 982,733; Jan. 24; Sp. p. 5595; Gaz. vol. 162; p. 962.
Steam-boiler. M. W. Sewall. No. 983,170; Jan. 31; Sp. p. 6541; Gaz. vol. 162; p. 1137.
Steam-boiler. J. R. Vance. No. 983,184; Jan. 31; Sp. p. 6564; Gaz. vol. 162; p. 1142.
Steam-boiler. M. W. Sewall. No. 986,090; Mar. 7; Sp. p. 713; Gaz. vol. 164; p. 114.
Steam-boiler. C. W. Todd. No. 986,876; Mar. 14; Sp. p. 2380; Gaz. vol. 164; p. 412.
Steam-boiler. J. L. Jensen and H. Denison. No. 988,717; Apr. 4; Sp. p. 927; Gaz. vol. 165; p. 147.
Steam-boiler. J. H. Lester and E. C. Mills. No. 989,270; Apr. 11; Sp. p. 2068; Gaz. vol. 165; p. 353.
Steam-boiler. C. C. Thomas. No. 991,562; May 9; Sp. p. 1581; Gaz. vol. 166; p. 292.
Steam-boiler. A. Worthington. No. 992,467; May 16; Sp. p. 3521; Gaz. vol. 166; p. 632.
Steam-boiler. E. C. Jacobson. No. 994,403; June 6; Sp. p. 630; Gaz. vol. 167; p. 108.
Steam-boiler. N. A. Uren, Jr. No 995,929; June 20; Sp. p. 4007; Gaz. vol. 167; p. 696.
Steam-boiler. G. P. Campbell. No. 997,962; July 18; Sp. p. 2943; Gaz vol. 168; p. 540.
Steam-boiler. J. T. Nicolson. No. 1,003,059; Sept. 12; Sp. p. 1928; Gaz. vol. 170; p. 333.
Steam-boiler. J. A. Mumford. No. 1,003,776; Sept. 19; Sp. p. 3474; Gaz. vol. 170; p. 618.
Steam-boiler. C. W. Todd. No. 1,004,713; Oct. 3; Sp. p. 367; Gaz. vol. 171; p. 60.

Steam-boiler. W. H. Mears. No. 1,008,554; Nov. 14; Sp. p. 2092; Gaz. vol. 172; p. 358.
Steam-boiler. E. Maslin. No. 1,009,847; Nov. 28; Sp. p. 4896; Gaz. vol. 172; p. 885.
Steam-boiler and stay-bolt for same. B. E. D. Stafford. No. 984,862; Feb. 21; Sp. p. 3475; Gaz. vol. 163; p. 614.
Steam-boiler, High-pressure. W. Schmidt. No. 989,812; Apr. 18; Sp. p. 3266; Gaz. vol. 165; p. 570.
Steam-boiler, Water-tube. S. M. Cockburn, J. R. and J. Temperley. No. 996,401; June 27; Sp. p. 5069; Gaz. vol. 167; p. 892.
Steam-boiler with tubes connecting the upper and lower shells, Water-tube. W. Schreier. No. 1,005,333; Oct. 10; Sp. p. 1667; Gaz. vol. 171; p. 298.
Steam-condensing plant working under vacuum. D. B. Morison. No. 1,006,975; Oct. 24; Sp. p. 5321; Gaz. vol. 171; p. 935.
Steam-distributing system, Underground. E. L. Barnes. No. 997,434; July 11; Sp. p. 1738; Gaz. vol. 168; p. 315.
Steam-engine. J. Stumpf. (Reissue.) No. 13,191; Jan. 3; Sp. p. 1567; Gaz. vol. 162; p. 248.
Steam-engine. C. F. Laufer. No. 986,016; Mar. 7; Sp. p. 564; Gaz. vol. 164; p. 90.
Steam-engine. N. G. Herreshoff. No. 986,982; Mar. 14; Sp. p. 2573; Gaz. vol. 164; p. 445.
Steam-engine. G. W. Baker. No. 987,035; Mar. 14; Sp. p. 2675; Gaz. vol. 164; p. 463.
Steam-engine. W. K. Austin. No. 992,143; May 16; Sp. p. 2778; Gaz. vol. 166; p. 520.
Steam-engine. D. P. Upson. No. 992,927; May 23; Sp. p. 4498; Gaz. vol. 166; p. 825.
Steam-engine. J. Stumpf. No. 994,484; June 6; Sp. p. 779; Gaz. vol. 167; p. 133.
Steam-engine. G. G. A. Lindholm. No. 997,627; July 11; Sp. p. 2150; Gaz. vol. 168; p. 381.
Steam-engine. L. S. Putman. No. 1,002,449; Sept. 5; Sp. p. 611; Gaz. vol. 170; p. 87.
Steam-engine. H. Engebretson. No. 1,004,395; Sept. 26; Sp. p. 4852; Gaz. vol. 170; p. 857.
Steam-engine. L. J. Wentzel. No. 1,009,874; Nov. 28; Sp. p. 4945; Gaz. vol. 172; p. 893.
Steam-engine. G. W. Baker. No. 1,012,050; Dec. 19; Sp. p. 3726; Gaz. vol. 173; p. 648.
Steam-engine, Multicylinder oscillating. L. A. Huggins. No. 992,424; May 16; Sp. p. 3435; Gaz. vol. 166; p. 618.
Steam-engine with piston-controlled exhaust-ports. J. Stumpf. No. 982,395; Jan. 24; Sp. p. 4901; Gaz. vol. 162; p. 849.
Steam-equalizer. H. M. Wait. No. 996,740; July 4; Sp. p. 279; Gaz. vol. 168; p. 49.
Steam for submarine boats, Generating. R. d'Equevilley-Montjustin. No. 986,373; Mar. 7; Sp. p. 1295; Gaz. vol. 164; p. 209.
Steam, Generating. W. L. Johnson. No. 1,005,711; Oct. 10; Sp. p. 2505; Gaz. vol. 171; p. 430.
Steam-generating apparatus. W. B. Hammond. No. 981,081; Jan. 10; Sp. p. 2075; Gaz. vol. 162; p. 342.
Steam-generating apparatus. E. C. Newcomb. No. 981,218; Jan. 10; Sp. p. 2402; Gaz. vol. 162; p. 391.
Steam-generating plant. M. W. Sewall. No. 986,648; Mar. 14; Sp. p. 1897; Gaz. vol. 164; p. 335.
Steam-generating plant. M. W. Sewall. No. 986,649; Mar. 14; Sp. p. 1901; Gaz. vol. 164; p. 336.
Steam-generating plant. A. E. Dobbs, W. East, and J. S. Howkins. No. 992,644; May 16; Sp. p. 3893; Gaz. vol. 166; p. 694.
Steam-generating system. A. White. No. 992,833; May 23; Sp. p. 4284; Gaz. vol. 166; p. 790.
Steam generation. J. E. Fletcher. No. 998,568; July 18; Sp. p. 4263; Gaz. vol. 168; p. 754.
Steam-generator. J. Van Oosterwyck. No. 981,722; Jan. 17; Sp. p. 3450; Gaz. vol. 162; p. 585.
Steam-generator. J. N. Leach. No. 983,296; Feb. 7; Sp. p. 78; Gaz. vol. 163; p. 15.
Steam-generator. J. P. Badenhausen. No. 990,622; Apr. 25; Sp. p. 5058; Gaz. vol. 165; p. 881.
Steam-generator. J. H. Rosenthal and E. C. Carnt. No. 990,905; May 2; Sp. p. 161; Gaz. vol. 166; p. 30.
Steam-generator. H. Schwager. No. 992,911; May 23; Sp. p. 4466; Gaz. vol. 166; p. 819.
Steam-generator. K. T. Henley and W. A. Whiteside. No. 993,165; May 23; Sp. p. 5012; Gaz. vol. 166; p. 905.
Steam-generator. A. Wallerstein. No. 994,805; June 13; Sp. p. 1544; Gaz. vol. 167; p. 283.
Steam-generator. C. C. Worthington. No. 995,751; June 20; Sp. p. 3619; Gaz. vol. 167; p. 634.
Steam-generator. S. H. Shepherd. No. 999,187; July 25; Sp. p. 5628; Gaz. vol. 168; p. 1001.
Steam-generator. J. Goodfellow. No. 1,000,400; Aug. 15; Sp. p. 2530; Gaz. vol. 169; p. 472.
Steam-generator. W. E. McKee. No. 1,001,290; Aug. 22; Sp. p. 4486; Gaz. vol. 169; p. 815.
Steam-generator. M. Zetschok and F. Seitz. No. 1,003,852; Sept. 19; Sp. p. 3611; Gaz. vol. 170; p. 642.
Steam-generator. D. Stark and A. R. Carlyle. No. 1,004,703; Oct. 3; Sp. p. 351; Gaz. vol. 171; p. 57.
Steam-generator. A. L. Austin. No. 1,008,515; Nov. 14; Sp. p. 2008; Gaz. vol. 172; p. 343.
Steam-generator. C. S. Drummond. No. 1,008,797; Nov. 14; Sp. p. 2642; Gaz. vol. 172; p. 443.
Steam generator and reheater. F. A. Haughton. No. 989,781; Apr. 18; Sp. p. 3192; Gaz. vol. 165; p. 560.
Steam-generator, Electric. C. E. Griffing. No. 995,132; June 13; Sp. p. 2257; Gaz. vol. 167; p. 393.
Steam-generator for automobiles, &c. A. W. Caps and R. F. Miehle, Jr. No. 1,011,117; Dec. 5; Sp. p. 1574; Gaz. vol. 173; p. 250.
Steam-generator of the locomotive type. F. H. Trevithick. No. 1,001,712; Aug. 29; Sp. p. 5369; Gaz. vol. 169; p. 990.
Steam-generator or humidifier, Electric. L. B. Holliday, E. J. Weidensall, and G. R. Krebs. No. 990,875; May 2; Sp. p. 106; Gaz. vol. 166; p. 19.
Steam-generator, Soda. R. d'Equevilley-Montjustin. No. 1,003,095; Sept. 12; Sp. p. 2018; Gaz. vol. 170; p. 347.
Steam-generators, Compound for preventing the formation of scale, corrosion, and pitting in. O. H. Schroeder. No. 989,066; Apr. 11; Sp. p. 1640; Gaz. vol. 165; p. 285.
Steam-jacket. R. M. Dixon. No. 994,638; June 6; Sp. p. 1135; Gaz. vol. 167; p. 185.
Steam-motor. W. H. Stanton. No. 996,158; June 27; Sp. p. 4477; Gaz. vol. 167; p. 809.
Steam or hot-water circulating apparatus. J. Rouquaud. No. 1,008,285; Nov. 7; Sp. p. 1380; Gaz. vol. 172; p. 225.
Steam or other vapors, Apparatus for generating. E. C. Newcomb. No. 981,216; Jan. 10; Sp. p. 2362; Gaz. vol. 162; p. 389.
Steam or other vapors, Apparatus for generating. E. C. Newcomb. No. 981,217; Jan. 10; Sp. p. 2378; Gaz. vol. 162; p. 390.
Steam-plant system. J. C. Quinn. No. 987,168; Mar. 21; Sp. p. 2975; Gaz. vol. 164; p. 540.
Steam-power plant and the like. A. E. Guy. No. 1,006,477; Oct. 24; Sp. p. 4232; Gaz. vol. 171; p. 761.
Steam, Regulation of the temperature of superheated. J. Primrose. No. 1,003,792; Sept. 19; Sp. p. 3500; Gaz. vol. 170; p. 622.
Steam-regulator, Adjustable automatic. J. F. McElroy. No. 996,271; June 27; Sp. p. 4778; Gaz. vol. 167; p. 847.
Steam-separator. J. E. Sweet. No. 988,406; Apr. 4; Sp. p. 253; Gaz. vol. 165; p. 41.
Steam-separator. R. D. Jeffreys. No. 1,007,289; Oct. 31; Sp. p. 6027; Gaz. vol. 171; p. 1100.
Steam-separator. H. H. Tracy and H. E. Boyrie. No. 1,012,755; Dec. 26; Sp. p. 5211; Gaz. vol. 173; p. 933.
Steam system. J. W. Gamble. No. 1,012,625; Dec. 26; Sp. p. 4941; Gaz. vol. 173; p. 889.
Steam-table. J. B. Huppert. No. 1,011,061; Dec. 5; Sp. p. 1441; Gaz. vol. 173; p. 229.
Steam-trap. C. E. Squires. No. 980,694; Jan. 3; Sp. p. 1121; Gaz. vol. 162; p. 179.
Steam-trap. J. W. Lytton. No. 983,381; Feb. 7; Sp. p. 267; Gaz. vol. 163; p. 45.
Steam-trap. J. B. McKeown. No. 985,362; Feb. 28; Sp. p. 4556; Gaz. vol. 163; p. 817.
Steam-trap. C. A. Dunham. No. 986,967; Mar. 14; Sp. p. 2551; Gaz. vol. 164; p. 441.
Steam-trap. J. E. Purser. No. 988,385; Apr. 4; Sp. p. 207; Gaz. vol. 165; p. 34.
Steam-trap. P. J. Heffernan. No. 990,735; Apr. 25; Sp. p. 5322; Gaz. vol. 165; p. 918.
Steam-trap. B. F. Silliman. No. 992,453; May 16; Sp. p. 3487; Gaz. vol. 166; p. 627.
Steam-trap. L. M. Cooper. No. 992,545; May 16; Sp. p. 3699; Gaz. vol. 166; p. 662.
Steam-trap. R. H. Paterson. No. 992,687; May 16; Sp. p. 3971; Gaz. vol. 166; p. 709.
Steam-trap. R. Freer and S. Greer. No. 993,591; May 30; Sp. p. 5927; Gaz. vol. 166; p. 1079.
Steam-trap. F. A. Littlefield. No. 994,851; June 13; Sp. p. 1664; Gaz. vol. 167; p. 298.
Steam-trap. A. Werts. No. 997,885; July 11; Sp. p. 2748; Gaz. vol. 168; p. 471.
Steam-trap. L. P. Strong. No. 998,723; July 25; Sp. p. 4636; Gaz. vol. 168; p. 842.
Steam-trap. J. E. Purser. No. 1,000,344; Aug. 8; Sp. p. 2391; Gaz. vol. 169; p. 421.
Steam-trap. G. Keisling. No. 1,000,920; Aug. 15; Sp. p. 3662; Gaz. vol. 169; p. 657.
Steam-trap. O. H. Arner. No. 1,006,043; Oct. 17; Sp. p. 3233; Gaz. vol. 171; p. 579.
Steam-trap. F. C. Farnsworth. No. 1,006,740; Oct. 24; Sp. p. 4791; Gaz. vol. 171; p. 852.
Steam-trap. J. Davidson and W. O. Larmuth. No. 1,008,120; Nov. 7; Sp. p. 1016; Gaz. vol. 172; p. 164.
Steam-trap. M. P. Osbourn. No. 1,010,791; Dec. 5; Sp. p. 875; Gaz. vol. 173; p. 137.
Steam-trap, Return. J. W. Lytton. No. 989,021; Apr. 11; Sp. p. 1535; Gaz. vol. 165; p. 269.
Steam-trap, Vacuum. S. L. Bartlett. No. 1,011,103; Dec. 5; Sp. p. 1545; Gaz. vol. 173; p. 245.
Steaming, drying, and cooling apparatus. L. Detoy and A. P. Shepard. No. 998,236; July 18; Sp. p. 3555; Gaz. vol. 168; p. 637.
Steamboat. J. Rist. No. 1,011,372; Dec. 12; Sp. p. 2196; Gaz. vol. 173; p. 374.
Steamboat-wheel. J. B. Burch. No. 986,435; Mar. 14; Sp. p. 1440; Gaz. vol. 164; p. 260.

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Steamship. D. M. Pfautz. No. 995,559; June 20; Sp. p. 3185; Gaz. vol. 167; p. 566.
Steel and ingot-iron, Making. B. Talbot. No. 985,225; Feb. 28; Sp. p. 4264; Gaz. vol. 163; p. 772.
Steel, Apparatus for the manufacture of. G. J. Stock. No. 1,004,929; Oct. 3; Sp. p. 828; Gaz. vol. 171; p. 134.
Steel bar, Composite. R. C. Becker. No. 1,005,142; Oct. 10; Sp. p. 1214; Gaz. vol. 171; p. 227.
Steel bars and plates, Producing. W. McConway. No. 994,326; June 6; Sp. p. 461; Gaz. vol. 167; p. 79.
Steel billets and commercial blanks, Manufacturing cast-. W. McConway. No. 993,698; May 30; Sp. p. 6183; Gaz. vol. 166; p. 1118.
Steel, Carbonizing. H. Rodman. No. 981,474; Jan. 10; Sp. p. 2961; Gaz. vol. 162; p. 480.
Steel castings, Hardening the face of. J. W. Gebhard. No. 997,801; July 11; Sp. p. 2582; Gaz. vol. 168; p. 443.
Steel, Cellular. J. M. Rude. No. 1,000,758; Aug. 15; Sp. p. 3325; Gaz. vol. 169; p. 600.
Steel, Compound for treating. H. M. Lee and F. G. Booth. No. 987,468; Mar. 21; Sp. p. 3614; Gaz. vol. 164; p. 644.
Steel from low-grade material, Producing high-grade. W. R. Palmer. (Reissue.) No. 13,264; June 27; Sp. p. 5487; Gaz. vol. 167; p. 960.
Steel ingots and plates, Manufacture of combined. C. T. Torsell. No. 987,774; Mar. 28; Sp. p. 4259; Gaz. vol. 164; p. 777.
Steel ingots, Mold for forming cast-. J. M. Ward. No. 993,004; May 23; Sp. p. 4665; Gaz. vol. 166; p. 851.
Steel jaw-trap. J. A. Gallup. No. 992,186; May 16; Sp. p. 2873; Gaz. vol. 166; p. 535.
Steel, Manufacture of. W. R. Walker. No. 980,369; Jan. 3; Sp. p. 382; Gaz. vol. 162; p. 68.
Steel, Manufacture of. J. H. Gray. No. 987,715; Mar. 28; Sp. p. 4137; Gaz. vol. 164; p. 757.
Steel, Manufacture of. S. S. Wales. No. 987,840; Mar. 28; Sp. p. 4396; Gaz. vol. 164; p. 800.
Steel, Manufacture of. T. J. Heskett. No. 990,266; Apr. 25; Sp. p. 4242; Gaz. vol. 165; p. 756.
Steel, Manufacture of. W. R. Walker and J. H. Gray. No. 1,000,217; Aug. 8; Sp. p. 2131; Gaz. vol. 169; p. 379.
Steel, Manufacture of. P. H. Dudley. No. 1,009,707; Nov. 21; Sp. p. 4580; Gaz. vol. 172; p. 789.
Steel rings, Manufacture of. L. P. Whitaker. No. 992,463; May 16; Sp. p. 3505; Gaz. vol. 166; p. 631.
Steel shears. I. W. Cheney. No. 981,166; Jan. 10; Sp. p. 2260; Gaz. vol. 162; p. 373.
Steel tie. C. W. Walker. No. 985,081; Feb. 21; Sp. p. 3893; Gaz. vol. 163; p. 688.
Steel tie. P. Campbell. No. 990,704; Apr. 25; Sp. p. 5261; Gaz. vol. 165; p. 908.
Steel tie. J. Jordan. No. 1,000,093; Aug. 8; Sp. p. 1859; Gaz. vol. 169; p. 336.
Steel trap. J. A. Gallup. No. 992,185; May 16; Sp. p. 2872; Gaz. vol. 166; p. 535.
Steel trap. H. L. Whipps. No. 1,010,553; Dec. 5; Sp. p. 332; Gaz. vol. 173; p. 53.
Steel, Unmagnetizable. F. Kohlhaas. No. 981,575; Jan. 10; Sp. p. 3149; Gaz. vol. 162; p. 514.
Steel wheel, Pressed-. J. W. Sharick. No. 996,945; July 4; Sp. p. 722; Gaz. vol. 168; p. 118.
Steelyard. E. T. Seton. No. 1,000,201; Aug. 8; Sp. p. 2093; Gaz. vol. 169; p. 373.
Steeping apparatus. F. L. Jefferies. No. 1,007,783; Nov. 7; Sp. p. 299; Gaz. vol. 172; p. 47.
Steering and driving mechanism, Combined. S. E. and G. A. Siders. No. 1,008,376; Nov. 14; Sp. p. 1658; Gaz. vol. 172; p. 295.
Steering apparatus. H. J. Hert. No. 981,420; Jan. 10; Sp. p. 2861; Gaz. vol. 162; p. 461.
Steering apparatus. P. Lord. No. 982,215; Jan. 17; Sp. p. 4507; Gaz. vol. 162; p. 756.
Steering apparatus, Boat-. D. Higgins and J. W. Irons. No. 983,715; Feb. 7; Sp. p. 989; Gaz. vol. 163; p. 157.
Steering apparatus, Gyroscopic. J. C. Waldron. No. 983,467; Feb. 7; Sp. p. 449; Gaz. vol. 163; p. 72.
Steering apparatus, Vessel-. J. S. Clarke. No. 998,158; July 18; Sp. p. 3376; Gaz. vol. 168; p. 609.
Steering device. J. F. Douthitt. No. 989,897; Apr. 18; Sp. p. 3435; Gaz. vol. 165; p. 599.
Steering device. W. O. Hancock. No. 1,002,512; Sept. 5; Sp. p. 737; Gaz. vol. 170; p. 108.
Steering device for vehicles, airships, aeroplanes, submarines, &c. J. Wetterwald. No. 985,958; Mar. 7; Sp. p. 427; Gaz. vol. 164; p. 68.
Steering engine, Combined steam and hand. F. C. Schoen. No. 994,876; June 13; Sp. p. 1722; Gaz. vol. 167; p. 307.
Steering-gear. E. Werndl. No. 986,882; Mar. 14; Sp. p. 2399; Gaz. vol. 164; p. 415.
Steering-gear. G. E. Marquette. No. 988,121; Mar. 28; Sp. p. 5044; Gaz. vol. 164; p. 895.
Steering-gear. H. M. Jacobs. No. 991,067; May 2; Sp. p. 497; Gaz. vol. 166; p. 86.
Steering-gear. F. H. Jones. No. 997,919; July 11; Sp. p. 2826; Gaz. vol. 168; p. 483.
Steering-gear. A. H. Graef. No. 998,611; July 25; Sp. p. 4377; Gaz. vol. 168; p. 802.
Steering-gear. T. Mayhew. No. 999,823; Aug. 8; Sp. p. 1242; Gaz. vol. 169; p. 243.
Steering-gear connection. D. H. Buckley. No. 1,000,893; Aug. 15; Sp. p. 3607; Gaz. vol. 169; p. 648.
Steering-gear for ships. J. S. Blauvelt. No. 1,001,340; Aug. 22; Sp. p. 4609; Gaz. vol. 169; p. 834.
Steering mechanism. F. Rouiss. No. 991,545; May 9; Sp. p. 1547; Gaz. vol. 166; p. 286.
Steering mechanism. W. M. Bartram. No. 1,012,233; Dec. 19; Sp. p. 4139; Gaz. vol. 173; p. 710.
Steering-wheel, Warmed. E. T. Reichert, Jr. No. 1,002,754; Sept. 5; Sp. p. 1277; Gaz. vol. 170; p. 192.
Stem and sleeve, Dust-proof. D. W. Shepherd. No. 1,001,463; Aug. 22; Sp. p. 4847; Gaz. vol. 169; p. 874.
Stem winding and setting mechanism. A. Sim. No. 991,552; May 9; Sp. p. 1562; Gaz. vol. 166; p. 289.
Stench-trap. B. Weitzenhoffer. No. 1,002,792; Sept. 5; Sp. p 1350; Gaz. vol. 170; p. 205.
Stencil apparatus. J. F. Cole. No. 1,000,496; Aug. 15; Sp. p. 3740; Gaz. vol. 169; p. 507.
Stencil-cutting machine. W. E. Choate. No. 983,537; Feb. 7; Sp. p. 589; Gaz. vol. 163; p. 95.
Stencil-cutting machine. G. Remnsnider. No. 997,582; July 11; Sp. p. 2040; Gaz. vol. 168; p. 364.
Stencil-cutting machine. L. M. Nielsen. No. 1,003,939; Sept. 19; Sp. p. 3833; Gaz. vol. 170; p. 673.
Stencil-cutting machines, Flexible bed-strip for. S. Elliott. No. 996,228; June 27; Sp. p. 4672; Gaz. vol. 167; p. 833.
Stencil-cutting machines, Flexible bed-strip for. S. Elliott. No. 996,229; June 27; Sp. p. 4673; Gaz. vol. 167; p. 833.
Stencil-duplicating apparatus. A. B. Dick. No. 1,001,824; Aug. 29; Sp. p. 5603; Gaz. vol. 169; p. 1028.
Stencil-duplicating apparatus. S. O. Edmonds. No. 1,001,826; Aug. 29; Sp. p. 5613; Gaz. vol. 169; p. 1029.
Stencil-duplicating apparatus. S. O. Edmonds. No. 1,001,827; Aug. 29; Sp. p. 5616; Gaz. vol. 169; p. 1029.
Stencil-machine. S. D. Hartog. No. 987,626; Mar. 21; Sp. p. 3909; Gaz. vol. 164; p. 696.
Stencil-machine character-punch. S. D. Hartog. No. 998,894; July 25; Sp. p. 5027; Gaz. vol. 168; p. 902.
Stencil-machine character-punches, Making. C. A. Garvey. No. 991,498; May 9; Sp. p. 1431; Gaz. vol. 166; p. 269.
Stencil-machine rotary feed. G. Remnsnider. No. 997,583; July 11; Sp. p. 2043; Gaz. vol. 168; p. 365.
Stencil-making machine. E. G. Clark. No. 983,873; Feb. 14; Sp. p. 1347; Gaz. vol. 163; p. 242.
Stencil sheet, process, &c. W. G. Fuerth. No. 995,780; June 20; Sp. p. 3694; Gaz. vol. 167; p. 645.
Stenciling-machine. J. E. Shaver, Jr. No. 985,297; Feb. 28; Sp. p. 4423; Gaz. vol. 163; p. 796.
Stenciling-machine. B. C. Stickney. No. 986,031; Mar. 7; Sp. p. 593; Gaz. vol. 164; p. 95.
Step, Extension-. W. Gossett. No. 1,006,933; Oct. 24; Sp. p. 5241; Gaz. vol. 171; p. 921.
Step-joints, Machine for making. C. W. Reinoehl and B. L. Weaver. No. 1,003,654; Sept. 19; Sp. p. 3196; Gaz. vol. 170; p. 576.
Steps, Folding. C. Halstead. No. 983,135; Jan. 31; Sp. p. 6479; Gaz. vol. 162; p. 1126.
Steps, Protective covering for. H. W. Flagg. No. 1,002,142; Aug. 29; Sp. p. 6261; Gaz. vol. 169; p. 1132.
Stereopticon. F. F. Metzger. No. 1,003,774; Sept. 19; Sp. p. 3471; Gaz. vol. 170; p. 617.
Stereopticon. E. A. Ungren and A. R. Forster. No. 1,006,318; Oct. 17; Sp. p. 3864; Gaz. vol. 171; p. 675.
Stereopticon-screen and producing the same. H. C. and H. E. Coyle. No. 1,007,340; Oct. 31; Sp. p. 6130; Gaz. vol. 171; p. 1118.
Stereopticon-slide carrier. F. H. and L. D. Warner. No. 1,012,945; Dec. 26; Sp. p. 5696; Gaz. vol. 173; p. 999.
Stereoscope. H. A. Douglas. No. 994,378; June 6; Sp. p. 581; Gaz. vol. 167; p. 99.
Stereoscope. J. J. Murphy. No. 1,012,144; Dec. 19; Sp. p. 3939; Gaz. vol. 173; p. 681.
Stereoscope and stereograph. H. C. White. No. 984,055; Feb. 14; Sp. p. 1757; Gaz. vol. 163; p. 302.
Stereoscope-plate changer. E. W. Kelly. No. 998,618; July 25; Sp. p. 4387; Gaz. vol. 168; p. 804.
Stereoscopic apparatus. H. C. Snook and E. W. Kelly. No. 997,338; July 11; Sp. p. 1568; Gaz. vol. 168; p. 284.
Stereotype-casting mold. W. Scott. No. 989,815; Apr. 18; Sp. p. 3273; Gaz. vol. 165; p. 571.
Stereotype-plate casting and finishing mechanism. H. A. W. Wood. No. 985,874; Mar. 7; Sp. p. 238; Gaz. vol. 164; p. 39.
Stereotype-plate-casting apparatus. H. F. Bechman. No. 995,655; June 20; Sp. p. 3413; Gaz. vol. 167; p. 601.
Stereotype-plate clamp. E. W. Cooper. No. 997,966; July 18; Sp. p. 2953; Gaz. vol. 168; p. 541.
Stereotype-plate-finishing machine, Automatic. S. G. Goss. No. 1,009,738; Nov. 28; Sp. p. 4663; Gaz. vol. 172; p. 847.
Stereotype-plates, Machine for cooling. E. G. Burkam and R. W. E. Yardley. No. 997,437; July 11; Sp. p. 1744; Gaz. vol. 168; p. 316.
Stereotype-printing-plate-casting apparatus. H. A. W. Wood. No. 985,875; Mar. 7; Sp. p. 243; Gaz. vol. 164; p. 40.
Stereotypes, Apparatus for casting curved. C. E. Hopkins. No. 980,419; Jan. 3; Sp. p. 497; Gaz. vol. 162; p. 85.
Sterilizer. E. K. Hood and W. J. Campbell. No. 1,011,792; Dec. 12; Sp. p. 3134; Gaz. vol. 173; p. 523.

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Sterilizer, Combination-. S. T. Pulliam. No. 982,528; Jan. 24; Sp. p. 5198; Gaz. vol. 162; p. 896.
Sterilizing and shaking machine. R. R. Rogers. No. 1,010,805; Dec. 5; Sp. p. 900; Gaz. vol. 173; p. 141.
Sterilizing and water-heating apparatus, Combined. E. Kronman. No. 1,004,036; Sept. 26; Sp. p. 4073; Gaz. vol. 170; p. 734.
Sterilizing apparatus. G. Bengs. No. 999,294; Aug. 1; Sp. p. 191; Gaz. vol. 169; p. 36.
Sterilizing apparatus. F. Rodgers. No. 1,007,238; Oct. 31; Sp. p. 5929; Gaz. vol. 171; p. 1081.
Sterilizing-cabinet. C. A. Dean. No. 1,007,274; Oct. 31; Sp. p. 5997; Gaz. vol. 171; p. 1094.
Stethoscope and bougie, Combined. J. H. Fowler. No. 1,007,083; Oct. 31; Sp. p. 5573; Gaz. vol. 171; p. 1025.
Stick-pin. A. R. Sunde. No. 996,298; June 27; Sp. p. 4829; Gaz. vol. 167; p. 856.
Stick-pin, Safety. H. B. Fehrm. No. 1,007,081; Oct. 31; Sp. p. 5571; Gaz. vol. 171; p. 1024.
Stiffening device, Garment-. H. L. Blackwell. No. 986,895; Mar. 14; Sp. p. 2427; Gaz. vol. 164; p. 419.
Still. J. T. Davis. No. 988,445; Apr. 4; Sp. p. 335; Gaz. vol. 165; p. 54.
Still. I. H. Jewell. No. 999,793; Aug. 8; Sp. p. 1191; Gaz. vol. 169; p. 234.
Still for use with a high vacuum. P. Porges. No. 1,011,079; Dec. 5; Sp. p. 1488; Gaz. vol. 173; p. 236.
Still, Self-cleaning. W. H. McCune. No. 1,010,508; Dec. 5; Sp. p. 250; Gaz. vol. 173; p. 39.
Still, Solar. A. M. Brosius. No. 983,424; Feb. 7; Sp. p. 351; Gaz. vol. 163; p. 59.
Still, Triple-purification water-. J. A. Power. No. 988,661; Apr. 4; Sp. p. 797; Gaz. vol. 165; p. 128.
Stilt. H. C. Heffner. No 986,057; Mar. 7; Sp. p. 642; Gaz. vol. 164; p. 104.
Stipple-grain metal plate for the graphic arts. F. Achert. No. 993,938; May 30; Sp. p. 6652; Gaz. vol. 166; p. 1198.
Stirring or agitating device. C. Doering, Jr. No. 989,342; Apr. 11; Sp. p. 2230; Gaz. vol. 165; p. 378.
Stirrup. J. H. Harper. No. 985,799; Mar. 7; Sp. p. 63; Gaz. vol. 164; p. 14.
Stirrup. H. B. Cox. No. 1,000,782; Aug. 15; Sp. p. 3389; Gaz. vol. 169; p. 609.
Stirrup, Saddle-. R. L. Graham. No. 982,810; Jan. 31; Sp. p. 5783; Gaz. vol. 162; p. 1018.
Stirrup, Safety-. J. R. Hunter. No. 985,346; Feb. 28; Sp. p. 4516; Gaz. vol. 163; p. 812.
Stirrup, Safety-. A. Metzel. No. 995,166; June 13; Sp. p. 2337; Gaz. vol. 167; p. 404.
Stirrup, Safety-. H. I. Higginson. No. 996,085; June 27; Sp. p. 4330; Gaz. vol. 167; p. 785.
Stirrup, Safety-. J. Harvey. No. 1,005,029; Oct. 3; Sp. p. 1004; Gaz. vol. 171; p. 167.
Stirrup, Safety-. A. M. Sipes. No. 1,007,247; Oct. 31; Sp. p. 5944; Gaz. vol. 171; p. 1085.
Stitch-forming mechanism. J. P. Weis. No. 991,917; May 9; Sp. p. 2323; Gaz. vol. 166; p. 413.
Stitch impressions, Machine for burnishing. L. W. G. Flynt. No. 1,005,185; Oct. 10; Sp. p. 1312; Gaz. vol. 171; p. 244.
Stitch machine, Impression-. J. B. Hadaway. No. 1,003,451; Sept. 19; Sp. p. 2755; Gaz. vol. 170; p. 505.
Stitch machine, Impression or imitation. J. B. Hadaway. No. 999,162; July 25; Sp. p. 5581; Gaz. vol. 168; p. 992.
Stitch machine, Impression or imitation. J. B. Hadaway. No. 1,003,450; Sept. 19; Sp. p. 2753; Gaz. vol. 170; p. 504.
Stitch-separating mechanism. F. W. Merrick. No. 1,008,177; Nov. 7; Sp. p. 1121; Gaz. vol. 172; p. 185.
Stitches, Machine for making impression or imitation. J. B. Hadaway. No. 999,161; July 25; Sp. p. 5578; Gaz. vol. 168; p. 992.
Stitches, Machine for making impression or imitation. J. B. Hadaway. No. 1,003,452; Sept. 19; Sp. p. 2756; Gaz. vol. 170; p. 505.
Stitching horse, Leather-. H. J. Bowman. No. 999,360; Aug. 1; Sp. p. 335; Gaz. vol. 169; p. 59.
Stitching machine for pamphlets and similar articles, Thread-. H. L. Roberts. No. 1,001,308; Aug. 22; Sp. p. 4537; Gaz. vol. 169; p. 823.
Stitching machine, Shoe-. W. J. Drey. No. 1,010,877; Dec. 5; Sp. p. 1065; Gaz. vol. 173; p. 167.
Stitching-machines, Pull-off mechanism for. B. H. Theisen and G. S. Keller. No. 982,547; Jan. 24; Sp. p. 5233; Gaz. vol. 162; p. 902.
Stitching mechanism for signature-gathering machines. W. I. Lewis. No. 985,264; Feb. 28; Sp. p. 4345; Gaz. vol. 163; p. 785.
Stitching mechanisms, Presser-foot for sole-. H. Michelsen. No 989,511; Apr 11; Sp. p. 2569; Gaz. vol. 165; p. 439.
Stock and display device, Combined. S. R. Slaymaker and G. M. Miller. No. 997,154; July 4; Sp. p. 1180; Gaz. vol. 168; p. 190.
Stock-guard. S. P. Foster and H. V. Stevens. No. 983,816; Feb. 7; Sp. p. 1183; Gaz. vol. 163; p. 190.
Stock, Handling. M. M. Suppes. No. 999,905; Aug. 8; Sp. p. 1429; Gaz. vol. 169; p. 272.
Stock-handling and stock-storage yard and equipment. M. M. Suppes. No. 999,904; Aug. 8; Sp. p. 1426; Gaz. vol. 169; p. 271.
Stock-invoicer. M. B. Wilson. No. 997,168; July 4; Sp. p. 1209; Gaz. vol. 168; p. 195.
Stock-taking device. C. J. Strom. No. 986,955; Mar. 14; Sp. p. 2533; Gaz. vol. 164; p. 438.
Stock-tank and heater, Automatic. U. G. Smith. No. 982,101; Jan. 17; Sp. p. 4298; Gaz. vol. 162; p. 716.
Stock thickening and washing machine, Vacuum. T. E. Warren. No. 1,002,017; Aug. 22; Sp. p. 6032; Gaz. vol. 169; p. 1092.
Stocking. J. Balázs. No. 1,009,627; Nov. 21; Sp. p. 4432; Gaz. vol. 172; p. 764.
Stocking-driers, Drawer for. I. Mossop. No. 1,013,042; Dec. 26; Sp. p. 5894; Gaz. vol. 173; p. 1030.
Stocking-folder. A. L. Patterson. No. 1,000,289; Aug. 8; Sp. p. 2277; Gaz. vol. 169; p. 403.
Stocking-form. E. A. Johnson. No. 989,015; Apr. 11; Sp. p. 1518; Gaz. vol. 165; p. 267.
Stocking-supporter. H. C. Hazard. No. 1,004,254; Sept. 26; Sp. p. 4581; Gaz. vol. 170; p. 810.
Stocking-welt former. J. F. Roberts. No. 1,001,983; Aug. 29; Sp. p. 5970; Gaz. vol. 169; p. 1081.
Stoker. W. McClave. No. 984,100; Feb. 14; Sp. p. 1844; Gaz. vol. 163; p. 317.
Stoker. W. H. H. Stineman. No. 984,316; Feb. 14; Sp. p. 2312; Gaz. vol. 163; p. 391.
Stoker. D. H. Palmer. No. 1,005,458; Oct. 10; Sp. p. 1933; Gaz. vol. 171; p. 341.
Stoker, Automatic. A. R. Selden. No. 986,870; Mar. 14; Sp. p. 2366; Gaz. vol. 164; p. 410.
Stoker, Automatic. W. T. Hanna. No. 990,550; Apr. 25; Sp. p. 4913; Gaz. vol. 165; p. 857.
Stoker, Automatic. W. J. Kenney. No. 992,207; May 16; Sp. p. 2916; Gaz. vol. 166; p. 542.
Stoker, Automatic. W. T. Hanna. No. 1,002,513; Sept. 5; Sp. p. 738; Gaz. vol. 170; p. 109.
Stoker, Blast-feed. W. T. Hanna. No. 1,002,392; Sept. 5; Sp. p. 501; Gaz. vol. 170; p. 70.
Stoker-feed mechanism. C. D. Young. No. 1,000,658; Aug 15; Sp. p 3124; Gaz. vol. 169; p. 566.
Stoker-feed mechanism. W. C. A. Henry. No. 1,000,733; Aug. 15; Sp. p. 3271; Gaz. vol. 169; p. 592.
Stoker-feeding apparatus, Mechanical-. E. D. Newkirk. No. 988,491; Apr. 4; Sp. p. 425; Gaz. vol. 165; p. 69.
Stoker, Furnace-. P. L. Crowe. No. 1,000,587; Aug. 15; Sp. p. 2958; Gaz. vol. 169; p. 541.
Stoker, Mechanical. E. D. Newkirk. No. 983,305; Feb. 7; Sp. p. 101; Gaz. vol. 163; p. 18.
Stoker, Mechanical. L. F. Torrey. No. 986,877; Mar. 14; Sp. p. 2382; Gaz. vol. 164; p. 412.
Stoker, Mechanical. W. R. Wood. No. 987,661; Mar. 21; Sp. p. 3987; Gaz. vol. 164; p. 710.
Stoker, Mechanical. A. R. Selden. No. 987,834; Mar. 28; Sp. p. 4385; Gaz. vol. 164; p. 798.
Stoker, Mechanical. C. Harter. No. 989,254; Apr. 11; Sp. p. 2034; Gaz. vol. 165; p. 348.
Stoker, Mechanical. E. S. Clark. No. 989,895; Apr. 18; Sp. p. 3430; Gaz. vol. 165; p. 598.
Stoker, Mechanical. W. T. Hanna. No. 991,614; May 9; Sp. p. 1698; Gaz. vol. 166; p. 312.
Stoker mechanism. P. L. Crowe and A. Frankenheim. No. 984,077; Feb. 14; Sp. p. 1801; Gaz. vol. 163; p. 309.
Stoker mechanism. P. L. Crowe. No. 1,000,586; Aug. 15; Sp. p. 2956; Gaz. vol. 169; p. 541.
Stoker, Underfed. W. F. Smith. No. 997,019; July 4; Sp. p. 912; Gaz. vol. 168; p. 144.
Stoker, Underfeed. T. E. Murray. No. 997,206; July 4; Sp. p. 1279; Gaz. vol. 168; p. 208.
Stoker, Underfeed. H. C. Tripp. No. 997,220; July 4; Sp. p. 1308; Gaz. vol. 168; p. 213.
Stoker, Underfeed. F. G. Saylor. No. 1,001,456; Aug. 22; Sp. p. 4839; Gaz. vol. 169; p. 873.
Stokers, Coal-feeder for mechanical. H. E. Parson. No. 992,686; May 16; Sp. p. 3969; Gaz. vol. 166; p. 708.
Stokers, Feeding device for underfeed. C. W. Kinnear. No. 984,568; Feb. 21; Sp. p. 2867; Gaz. vol. 163; p. 510.
Stokers, Feeding fuel in blast-feed. W. T. Hanna. No. 984,662; Feb. 21; Sp. p. 3067; Gaz. vol. 163; p. 543.
Stokers, Grate for mechanical. H. E. Parson. No. 992,685; May 16; Sp. p. 3967; Gaz. vol. 166; p. 708.
Stokers, Mechanical movement for automatic. W. McClave. No. 988,275; Mar. 28; Sp. p. 5341; Gaz. vol. 164; p. 945.
Stoking-tool. W. C. Fahy. No. 983,613; Feb. 7; Sp. p. 772; Gaz. vol. 163; p. 122.
Stone and metal shaping machine. W. F. Meyers. No. 987,390; Mar. 21; Sp. p. 3451; Gaz. vol. 164; p. 617.
Stone and other uses, Machine for dressing or surfacing. G. H. Condict. No. 990,425; Apr. 25; Sp. p. 4633; Gaz. vol. 165; p. 815.
Stone, Artificial. R. E. Brand. No. 991,419; May 2; Sp. p. 1260; Gaz. vol. 166; p. 211.
Stone-channeling process and machine. T. D. Mowlds. No. 1,012,569; Dec. 19; Sp. p. 4806; Gaz. vol. 173; p. 825.
Stone-chisel. A. C. Plaisted. No. 1,004,193; Sept. 26; Sp. p. 4460; Gaz. vol. 170; p. 789.
Stone-crusher. E. B. Symons. No. 1,000,049; Aug. 8; Sp. p. 1714; Gaz. vol. 169; p. 320.
Stone-crusher. H. F. Gorsuch. No. 1,002,261; Sept. 5; Sp. p. 168; Gaz. vol. 170; p. 21.

Alphabetical list of inventions—Continued.

Stone-crushers, Head-adjusting device for gyratory. E. B. Symons. No. 995,044; June 13; Sp. p. 2087; Gaz. vol. 167; p. 364.
Stone-cutting machine. A. Ball and H. H. Mercer. No. 1,011,145; Dec. 12; Sp. p. 1669; Gaz. vol. 173; p. 295.
Stone-dressing machine. E. Collins. No. 989,122; Apr. 11; Sp. p. 1741; Gaz. vol. 165; p. 303.
Stone-dressing tool. F. Strandberg. No. 988,402; Apr. 4; Sp. p. 246; Gaz. vol. 165; p. 40.
Stone-gatherer. W. P. Llewellyn. No. 981,440; Jan. 10; Sp. p. 2899; Gaz. vol. 162; p. 468.
Stone, Marbleizing artificial. A. Riesch. No. 1,012,016; Dec. 19; Sp. p. 3645; Gaz. vol. 173; p. 636.
Stone-sawing machine. F. S. Miskin. No. 980,878; Jan. 3; Sp. p. 1499; Gaz. vol. 162; p. 240.
Stone-sawing machine. J. J. Smith. No. 985,465; Feb. 28; Sp. p. 4807; Gaz. vol. 163; p. 854.
Stone-sawing machine. H. Q. Maurino. No. 995,269; June 13; Sp. p. 2532; Gaz. vol. 167; p. 438.
Stone-shaping machine. E. Eggers. No. 997,764; July 11; Sp. p. 2462; Gaz. vol. 168; p. 430.
Stone-truing tool. F. B. Potter. No. 994,603; June 6; Sp. p. 1040; Gaz. vol. 167; p. 173.
Stones and the like, Machine for splitting or other working of. C. G. Smith. No. 999,896; Aug. 8; Sp. p. 1415; Gaz. vol. 169; p. 269.
Stoneware, Making artificial. R. F. Osborn and J. Roach. No. 991,743; May 9; Sp. p. 1970; Gaz. vol. 166; p. 354.
Stoneworking-machine. J. J. Padbury. No. 999,180; July 25; Sp. p. 5617; Gaz. vol. 168; p. 998.
Stoneworking-table. G. A. Cross. No. 1,007,540; Oct. 31; Sp. p. 6565; Gaz. vol. 171; p. 1187.
Stoneworking-tools, Dust-preventer for. W. M. Holden and E. M. Tobin. No. 1,003,260; Sept. 12; Sp. p. 2372; Gaz. vol. 170; p. 407.
Stool. E. C. R. Ellsworth. No. 998,881; July 25; Sp. p. 5006; Gaz. vol. 168; p. 898.
Stool. S. Ryave and H. Obernauer. No. 1,009,584; Nov. 21; Sp. p. 4359; Gaz. vol. 172; p. 751.
Stool, Adjustable milk-. W. W. Robbins. No. 1,009,578; Nov. 21; Sp. p. 4352; Gaz. vol. 172; p. 749.
Stool and pail-support, Combined milking-. B. M. Tucker. No. 1,010,535; Dec. 5; Sp. p. 300; Gaz. vol. 173; p. 47.
Stool, chair, and the like, Adjustable. I. E. Loos. No. 1,001,354; Aug. 22; Sp. p. 4645; Gaz. vol. 169; p. 839.
Stool, Knockdown. E. P. and A. J. Pierce. No. 983,458; Feb. 7; Sp. p. 433; Gaz. vol. 163; p. 69.
Stool, Milk-. L. Tyreman. No. 1,006,513; Oct. 24; Sp. p. 4314; Gaz. vol. 171; p. 773.
Stool, Milking-. F. Michalsky. No. 986,401; Mar. 7; Sp. p. 1360; Gaz. vol. 164; p. 219.
Stool, Milking-. H. R. Brown. No. 989,326; Apr. 11; Sp. p. 2200; Gaz. vol. 165; p. 374.
Stool, Milking-. G. A. Malmgren. No. 991,335; May 2; Sp. p. 1094; Gaz. vol. 166; p. 182.
Stop. F. S. Ingoldsby. No. 1,004,267; Sept. 26; Sp. p. 4603; Gaz. vol. 170; p. 814.
Stop, Automatic limit-. F. C. Furlow. No. 986,377; Mar. 7; Sp. p. 1301; Gaz. vol. 164; p. 211.
Stop device. F. H. Richards. No. 992,804; May 23; Sp. p. 4218; Gaz. vol. 166; p. 779.
Stop mechanism. D. M. Cooper. No. 1,011,162; Dec. 12; Sp. p. 1711; Gaz. vol. 173; p. 301.
Stop mechanism, Adjustable. W. Ahlen. No. 999,194; Aug. 1; Sp. p. 1; Gaz. vol. 169; p. 3.
Stop mechanism, Automatic limit-. C. W. Spear. No. 985,221; Feb. 28; Sp. p. 4254; Gaz. vol. 163; p. 771.
Stop mechanism for power-driven machinery, Automatic. E. P. Jennings, Jr. No. 1,001,409; Aug. 22; Sp. p. 4759; Gaz. vol. 169; p. 858.
Stop mechanism, Work and table. C. H. Norton. No. 1,009,991; Nov. 28; Sp. p. 5184; Gaz. vol. 172; p. 931.
Stop-motion. M. C. Ryan. No. 1,004,594; Oct. 3; Sp. p. 96; Gaz. vol. 171; p. 17.
Stop-motion. W. E. Morton. No. 1,012,216; Dec. 19; Sp. p. 4104; Gaz. vol. 173; p. 704.
Stopper: *See* Bottle-stopper; Flue-stopper; Glass-pot stopper; Pipe-stopper; Sheet-metal stopper; Vent-stopper.
Stopper-extractor. W. Halk. No. 984,661; Feb. 21; Sp. p. 3065; Gaz. vol. 163; p. 543.
Stopper-extractor. B. Radtke. No. 985,548; Feb. 28; Sp. p. 4993; Gaz. vol. 163; p. 883.
Stoppers or sealing devices, Machine for applying. H. M. Brown. No. 1,002,559; Sept. 5; Sp. p. 841; Gaz. vol. 170; p. 124.
Stopping device, Automatically-operated. E. L. Collon and G. Tabard. No. 994,443; June 6; Sp. p. 704; Gaz. vol. 167; p. 120.
Stopping device, Auxiliary. H. Meyer. No. 1,002,073; Aug. 29; Sp. p. 6139; Gaz. vol. 169; p. 1110.
Storage and display receptacle. J. J. Ferrall and E. Mackay. No. 996,574; June 27; Sp. p. 5431; Gaz. vol. 167; p. 950.
Storage and vending apparatus, Combined. G. H. Hillyer. No. 1,004,427; Sept. 26; Sp. p. 4930; Gaz. vol. 170; p. 867.
Storage battery. E. J. Knapp and E. D. McLaughlin. No. 990,274; Apr. 25; Sp. p. 4256; Gaz. vol. 165; p. 759.
Storage battery. A. E. Lawrence. No. 995,162; June 13; Sp. p. 2329; Gaz. vol. 167; p. 403.
Storage battery. H. H. Kempf. No. 1,010,377; Nov. 28; Sp. p. 5975; Gaz. vol. 172; p. 1061.
Storage battery. T. A. Edison. No. 1,012,828; Dec. 26; Sp. p. 5406; Gaz. vol. 173; p. 959.
Storage battery. H. L. and J. M. Peterson and A. O. Retrum. No. 1,012,908; Dec. 26; Sp. p. 5587; Gaz. vol. 173; p. 985.
Storage battery and treating the same. T. A. Edison. No. 999,762; Aug. 8; Sp. p. 1128; Gaz. vol. 169; p. 223.
Storage battery, Electric. B. Ford. No. 997,984; July 18; Sp. p. 2991; Gaz. vol. 168; p. 547.
Storage-room. M. M. Looram. No. 1,005,048; Oct. 3; Sp. p. 1042; Gaz. vol. 171; p. 174.
Storage-stand. L. Willour. No. 990,025; Apr. 18; Sp. p. 3710; Gaz. vol. 165; p. 643.
Storage-tank. O. K. Harry. No. 983,440; Feb. 7; Sp. p. 385; Gaz. vol. 163; p. 64.
Storage-tank. W. B. Henion. No. 994,676; June 6; Sp. p. 1216; Gaz. vol. 167; p. 198.
Storage-tank. J. A. Ullman. No. 1,012,300; Dec. 19; Sp. p. 4278; Gaz. vol. 173; p. 734.
Storage-tank. J. A. Ullman. No. 1,012,937; Dec. 26; Sp. p. 5670; Gaz. vol. 173; p. 996.
Storage-tank, Metal. J. D. Harry. No. 994,921; June 13; Sp. p. 1835; Gaz. vol. 167; p. 323.
Store-counter. R. D. Ralston. No. 988,594; Apr. 4; Sp. p. 660; Gaz. vol. 165; p. 106.
Store-fixture. F. S. Nelson. No. 985,924; Mar. 7; Sp. p. 355; Gaz. vol. 164; p. 57.
Store-fixture. E. McClure. No. 995,410; June 13; Sp. p. 2854; Gaz. vol. 167; p. 485.
Store-front and show-window. D. J. Murnane. No. 1,008,982; Nov. 14; Sp. p. 3013; Gaz. vol. 172; p. 502.
Store-front and show-window. D. J. Murnane. No. 1,008,984; Nov. 14; Sp. p. 3022; Gaz. vol. 172; p. 503.
Store-front and show-window structure. D. J. Murnane. No. 995,802; June 20; Sp. p. 3742; Gaz. vol. 167; p. 652.
Store-front and show-window structure. D. J. Murnane. No. 1,008,985; Nov. 14; Sp. p. 3025; Gaz. vol. 172; p. 504.
Store-front construction. F. Kritz. No. 987,143; Mar. 21; Sp. p. 2890; Gaz. vol. 164; p. 531.
Store-front setting. M. S. Crane. No. 1,007,675; Nov. 7; Sp. p. 32; Gaz. vol. 172; p. 9.
Store-service apparatus. J. P. Nace. No. 980,325; Jan. 3; Sp. p. 282; Gaz. vol. 162; p. 52.
Store-service apparatus. J. P. Gately. No. 986,705; Mar. 14; Sp. p. 2005; Gaz. vol. 164; p. 353.
Store-service apparatus. E. C. Gipe. No. 1,008,636; Nov. 14; Sp. p. 2299; Gaz. vol. 172; p. 388.
Store-vat. W. Schmitt. No. 996,801; July 4; Sp. p. 399; Gaz. vol. 168; p. 65.
Stove. F. A. Nieberding. No. 982,847; Jan. 31; Sp. p. 5853; Gaz. vol. 162; p. 1031.
Stove. E. H. Gold. No. 983,044; Jan. 31; Sp. p. 6311; Gaz. vol. 162; p. 1097.
Stove. W. F. Pinkerton. No. 985,058; Feb. 21; Sp. p. 3855; Gaz. vol. 163; p. 680.
Stove. J. E. Gaitley. No. 987,978; Mar. 28; Sp. p. 4758; Gaz. vol. 164; p. 848.
Stove. R. E. Adams. No. 989,937; Apr. 18; Sp. p. 3533; Gaz. vol. 165; p. 614.
Stove. F. S. Lang. No. 990,884; May 2; Sp. p. 122; Gaz. vol. 166; p. 23.
Stove. L. E. Clawson. No. 991,198; May 2; Sp. p. 791; Gaz. vol. 166; p. 134.
Stove. W. V. Rollings. No. 992,596; May 16; Sp. p. 3818; Gaz. vol. 166; p. 680.
Stove. E. A. H. Royer. No. 993,716; May 30; Sp. p. 6218; Gaz. vol. 166; p. 1124.
Stove. S. G. Staron and S. A. Dolny. No. 997,715; July 11; Sp. p. 2333; Gaz. vol. 168; p. 412.
Stove. D. J. Rogers and S. A. Day. No. 998,121; July 18; Sp. p. 3311; Gaz. vol. 168; p. 596.
Stove. C. P. Quigley. No. 998,800; July 25; Sp. p. 4804; Gaz. vol. 168; p. 868.
Stove. N. Glick. No. 1,001,017; Aug. 22; Sp. p. 3938; Gaz. vol. 169; p. 724.
Stove. J. Mersereau. No. 1,009,085; Nov. 21; Sp. p. 3254; Gaz. vol. 172; p. 575.
Stove and furnace fire-pot. W. Clerkin. No. 1,006,466; Oct. 24; Sp. p. 4198; Gaz. vol. 171; p. 756.
Stove and garbage-destroyer, Combined. D. S. Richardson. No. 990,290; Apr. 25; Sp. p. 4291; Gaz. vol. 165; p. 765.
Stove and heating-drum, Combined. N. F. Holberg. No. 996,645; July 4; Sp. p. 107; Gaz. vol. 168; p. 19.
Stove and range. L. Scruggs. No. 993,558; May 30; Sp. p. 5859; Gaz. vol. 166; p. 1068.
Stove and range attachment. R. E. Esplen. No. 991,492; May 9; Sp. p. 1422; Gaz. vol. 166; p. 267.
Stove and the like, Gas cooking-. W. H. Pirrie. No. 994,533; June 6; Sp. p. 895; Gaz. vol. 167; p. 148.
Stove apparatus, Blast-. W. C. Wolle and J. V. Symons. No. 992,839; May 23; Sp. p. 4301; Gaz. vol. 166; p. 792.
Stove, Ash-sifting. P. McDonald. No. 983,741; Feb. 7; Sp. p. 1032; Gaz. vol. 163; p. 165.
Stove attachment. W. R. Jeavons and A. R. Whittaker. No. 996,087; June 27; Sp. p. 4338; Gaz. vol. 167; p. 785.
Stove attachment, Gas-. M. S. Rose. No. 1,001,450; Aug. 22; Sp. p. 4829; Gaz. vol. 169; p. 870.

Stove attachment, Heating-. T. F. Hatton. No. 980,520; Jan. 3; Sp. p. 755; Gaz. vol. 162; p. 121.
Stove, Base-burning heating-. W. T. Eastes. No. 984,200; Feb. 14; Sp. p. 2036; Gaz. vol. 163; p. 350.
Stove, Cabinet-. M. C. Scrote. No. 998,208; July 18; Sp. p. 3476; Gaz. vol. 168; p. 626.
Stove, Camp-. J. P. Jacobs. No. 986,063; Mar. 7; Sp. p. 660; Gaz. vol. 164; p. 105.
Stove, Charcoal-. J. Rademacher. No. 997,326; July 11; Sp. p. 1542; Gaz. vol. 168; p. 280.
Stove, Combination coal and wood heating-. L. Howard. No. 993,300; May 23; Sp. p. 5276; Gaz. vol. 166; p. 946.
Stove, Combined coal and gas heating-. L. Howard. No. 993,299; May 23; Sp. p. 5274; Gaz. vol. 166; p. 946.
Stove, Combined gas and solid-fuel burning. E. R. Cahoone. No. 991,272; May 2; Sp. p. 954; Gaz. vol. 166; p. 161.
Stove, Cook-. J. E. Chambers. No. 986,360; Mar. 7; Sp. p. 1267; Gaz. vol. 164; p. 205.
Stove, Cook-. J. B. Turbeville. No. 1,010,536; Dec. 5; Sp. p. 301; Gaz. vol. 173; p. 48.
Stove, Cooking-. J. F. Heister. No. 985,802; Mar. 7; Sp. p. 68; Gaz. vol. 164; p. 15.
Stove, Cooking-. G. C. Wadleigh. No. 991,676; May 9; Sp. p. 1848; Gaz. vol. 166; p. 334.
Stove-door. L. F. Ostrander. No. 991,079; May 2; Sp. p. 525; Gaz. vol. 166; p. 90.
Stove-door. A. M. Gummer. No. 997,550; July 11; Sp. p. 1969; Gaz. vol. 168; p. 352.
Stove-door. A. G. Sherman. No. 1,003,212; Sept. 12; Sp. p. 2265; Gaz. vol. 170; p. 389.
Stove-door, Concealed-hinge. L. Scruggs. No. 1,007,147; Oct. 31; Sp. p. 5722; Gaz. vol. 171; p. 1049.
Stove-door hinge. C. M. Genthner. No. 1,002,199; Aug. 29; Sp. p. 6391; Gaz. vol. 169; p. 1151.
Stove door or window. O. Wegner. No. 1,009,814; Nov. 28; Sp. p. 4833; Gaz. vol. 172; p. 874.
Stove, Electric cook-. E. Moss. No. 1,009,549; Nov. 21; Sp. p. 4295; Gaz. vol. 172; p. 739.
Stove, Electric radiatory. G. Egly. No. 994,447; June 6; Sp. p. 711; Gaz. vol. 167; p. 121.
Stove, Folding camp-. A. Roncaglia. No. 982,302; Jan. 24; Sp. p. 4717; Gaz. vol. 162; p. 816.
Stove for blast-furnaces and the like. K. L. Landgrebe. No. 992,884; May 23; Sp. p. 4406; Gaz. vol. 166; p. 808.
Stove for heating water or generating steam. E. Pollard. No. 1,003,947; Sept. 19; Sp. p. 3849; Gaz. vol. 170; p. 676.
Stove, Gas-. C. B. Stilwell. No. 984,314; Feb. 14; Sp. p. 2310; Gaz. vol. 163; p. 391.
Stove, Gas-. W. J. Kennedy. No. 985,038; Feb. 21; Sp. p. 3817; Gaz. vol. 163; p. 674.
Stove, Gas-. C. L. Dickerman and W. Newman. No. 990,239; Apr. 25; Sp. p. 4194; Gaz. vol. 165; p. 747.
Stove, Gas-. J. G. Harvey. No. 992,660; May 16; Sp. p. 3921; Gaz. vol. 166; p. 699.
Stove, Gas-. F. K. Berry. No. 1,012,054; Dec. 19; Sp. p. 3736; Gaz. vol. 173; p. 649.
Stove, Gas-. J. Steinmassl. No. 1,012,472; Dec. 19; Sp. p. 4603; Gaz. vol. 173; p. 789.
Stove, Heating-. A. Philo. No. 984,296; Feb. 14; Sp. p. 2274; Gaz. vol. 163; p. 385.
Stove, Heating-. S. A. Johnson. No. 986,922; Mar. 14; Sp. p. 2472; Gaz. vol. 164; p. 428.
Stove, Heating-. H. B. Hemphill. No. 989,358; Apr. 11; Sp. p. 2261; Gaz. vol. 165; p. 383.
Stove, Heating-. A. R. Akin. No. 1,000,063; Aug. 8; Sp. p. 1767; Gaz. vol. 169; p. 326.
Stove, Heating-. J. A. Buckwalter and H. W. Kern. No. 1,005,508; Oct. 10; Sp. p. 2040; Gaz. vol. 171; p. 359.
Stove, Kitchenette-. E. S. Allen. No. 999,622; Aug. 1; Sp. p. 838; Gaz. vol. 169; p. 146.
Stove, Lamp-. M. G. Mason. No. 991,338; May 2; Sp. p. 1099; Gaz. vol. 166; p. 183.
Stove-lid or coal-hole cover. T. H. Edwards. No. 996,322; June 27; Sp. p. 4899; Gaz. vol. 167; p. 865.
Stove-lids, Mold-pattern for. W. H. Taphorn. No. 981,898; Jan. 17; Sp. p. 3846; Gaz. vol. 162; p. 648.
Stove, Magazine-. J. B. Howard. No. 980,264; Jan. 3; Sp. p. 161; Gaz. vol. 162; p. 31.
Stove, Nursing-. W. A. Campbell. No. 988,077; Mar. 28; Sp. p. 4973; Gaz. vol. 164; p. 881.
Stove, Oil-. J. W. Young. No. 992,626; May 16; Sp. p. 3861; Gaz. vol. 166; p. 689.
Stove or furnace. E. V. Coulston. No. 1,008,698; Nov. 14; Sp. p. 2421; Gaz. vol. 172; p. 409.
Stove or heater, Liquid-fuel. G. P. Wolff. No. 983,105; Jan. 31; Sp. p. 6431; Gaz. vol. 162; p. 1117.
Stove or range, Cook. C. M. Genthner. No. 1,008,025; Nov. 7; Sp. p. 819; Gaz. vol. 172; p. 130.
Stove oven, Gas-. F. L. Goodrich. No. 989,842; Apr. 18; Sp. p. 3335; Gaz. vol. 165; p. 581.
Stove, Portable. G. Beyer. No. 981,608; Jan. 17; Sp. p. 3225; Gaz. vol. 162; p. 547.
Stove, Portable. G. E. Neel. No. 995,705; June 20; Sp. p. 3507; Gaz. vol. 167; p. 618.
Stove-pot. B. Moore. No. 1,012,690; Dec. 26; Sp. p. 5068; Gaz. vol. 173; p. 909.
Stove regulator, Gas-. C. S. Harris. No. 987,458; Mar. 21; Sp. p. 3596; Gaz. vol. 164; p. 640.
Stove regulator, Gas-. F. W. Magee. No. 1,007,712; Nov. 7; Sp. p. 132; Gaz. vol. 172; p. 21.
Stove safety attachment, Gas-. A. G. Lawrence. No. 991,216; May 2; Sp. p. 831; Gaz. vol. 166; p. 141.
Stove, Self-feeding. A. Kurzwernhart. No. 996,263; June 27; Sp. p. 4762; Gaz. vol. 167; p. 844.
Stove-shelf and grease-guard, Collapsible. J. Geer and A. C. Coty. No. 1,001,383; Aug. 22; Sp. p. 4705; Gaz. vol. 169; p. 848.
Stove-top. L. F. Ostrander. No. 996,124; June 27; Sp. p. 4413; Gaz. vol. 167; p. 799.
Stove, Vapor-. G. Barthel. No. 992,328; May 16; Sp. p. 3224; Gaz. vol. 166; p. 585.
Stove, Water-heating gas-. A. Tosco. No. 988,524; Apr. 4; Sp. p. 502; Gaz. vol. 165; p. 80.
Stoves and radiators, Apparatus for gas heating. A. L. Boucher. No. 984,743; Feb. 21; Sp. p. 3239; Gaz. vol. 163; p. 573.
Stoves, Generator-tube and filler for vapor-. G. A. Downs. No. 1,009,833; Nov. 28; Sp. p. 4875; Gaz. vol. 172; p. 880.
Stoves or ranges, Heat-concentrating ring for gas or vapor. L. W. Swafford. No. 983,413; Feb. 7; Sp. p. 329; Gaz. vol. 163; p. 56.
Stoves, Sad-iron attachment for gas-. J. Markowski and I. Krekowsky. No. 982,378; Jan. 24; Sp. p. 4871; Gaz. vol. 162; p. 843.
Stoves, Warming-shelf for. E. A. Peterson. No. 1,010,686; Dec. 5; Sp. p. 625; Gaz. vol. 173; p. 100.
Stovepipe attachment for tents. E. L. Hitt. No. 1,009,516; Nov. 21; Sp. p. 4229; Gaz. vol. 172; p. 728.
Stovepipe-cleaner. W. A. Stuckey. No. 997,160; July 4; Sp. p. 1189; Gaz. vol. 168; p. 193.
Stovepipe-cleaner. A. A. MacLennan. No. 1,000,737; Aug. 15; Sp. p. 3282; Gaz. vol. 169; p. 593.
Stovepipe cleaner and damper. A. F. Mertz and J. Ruhl. No. 997,572; July 11; Sp. p. 2019; Gaz. vol. 168; p. 360.
Stovepipe-coupling. N. T. Ljungberg. No. 980,304; Jan. 3; Sp. p. 236; Gaz. vol. 162; p. 45.
Stovepipe-fastener. J. L. Bartels. No. 988,164; Mar. 28; Sp. p. 5126; Gaz. vol. 164; p. 909.
Stovepipe-fastener. H. E. Gordon. No. 1,011,612; Dec. 12; Sp. p. 2761; Gaz. vol. 173; p. 462.
Stovepipe-hanger. M. P. Rendleman. No. 985,062; Feb. 21; Sp. p. 3861; Gaz. vol. 163; p. 682.
Stovepipe-holder. G. Lee. No. 981,435; Jan. 10; Sp. p. 2890; Gaz. vol. 162; p. 467.
Stovepipe-joint. P. H. Graham. No. 984,086; Feb. 14; Sp. p. 1821; Gaz. vol. 163; p. 313.
Stovepipe-joint. M. E. Parry. No. 1,011,363; Dec. 12; Sp. p. 2182; Gaz. vol. 173; p. 372.
Stovepipe-sections in position, Means for securing. J. B. Lambeth. No. 993,845; May 30; Sp. p. 6485; Gaz. vol. 166; p. 1168.
Stovepipe-thimble. G. L. Mansell. No. 995,020; June 13; Sp. p. 2033; Gaz. vol. 167; p. 356.
Stovepipe-thimble for wall-flues. P. E. Buckley. No. 980,919; Jan. 10; Sp. p. 1647; Gaz. vol. 162; p. 285.
Stowing mechanism. J. W. Cruikshank. No. 1,003,344; Sept. 12; Sp. p. 2537; Gaz. vol. 170; p. 437.
Straight-edge. J. Riikonen. No. 1,007,801; Nov. 7; Sp. p. 346; Gaz. vol. 172; p. 55.
Straightening-machine. J. S. Bachman and C. E. McLin. No. 998,448; July 18; Sp. p. 4020; Gaz. vol. 168; p. 713.
Straightening-table. P. B. Abramsen. No. 1,003,575; Sept. 19; Sp. p. 3040; Gaz. vol. 170; p. 548.
Strain-clamp. A. O. Austin. No. 1,002,113; Aug. 29; Sp. p. 6209; Gaz. vol. 169; p. 1122.
Strain-plate and guy-support, Combined. J. M. Stamps. No. 986,238; Mar. 7; Sp. p. 1010; Gaz. vol. 164; p. 162.
Strainer. G. Smith. No. 981,805; Jan. 17; Sp. p. 3617; Gaz. vol. 162; p. 614.
Strainer. W. L. Reed. No. 983,767; Feb. 7; Sp. p. 1091; Gaz. vol. 163; p. 175.
Strainer. T. H. and L. L. Dilger. No. 988,291; Mar. 28; Sp. p. 5377; Gaz. vol. 164; p. 951.
Strainer. H. Andersen. No. 989,473; Apr. 11; Sp. p. 2492; Gaz. vol. 165; p. 422.
Strainer. H. B. Holt. No. 989,975; Apr. 18; Sp. p. 3615; Gaz. vol. 165; p. 626.
Strainer. J. A. Clark. No. 1,000,072; Aug. 8; Sp. p. 1789; Gaz. vol. 169; p. 329.
Strainer. E. E. Hauer. No 1,001,025; Aug. 22; Sp. p. 3960; Gaz. vol. 169; p. 727.
Strainer. E. E. Hauer. No. 1,001,026; Aug. 22; Sp. p. 3961; Gaz. vol. 169; p. 728.
Strainer. E. A. Britzius. No. 1,003,398; Sept. 12; Sp. p. 2634; Gaz. vol. 170; p. 453.
Strainer. C. Arnesen. No. 1,003,410; Sept. 19; Sp. p. 2658; Gaz. vol. 170; p. 489.
Strainer. F. E. Keyes. No. 1,007,449; Oct. 31; Sp. p. 6367; Gaz. vol. 171; p. 1156.
Strainer. E. C. Courtwright. No. 1,008,527; Nov. 14; Sp. p. 2032; Gaz. vol. 172; p. 348.
Strainer and cover, Combined. G. J. Bernau. No. 982,760; Jan. 24; Sp. p. 5668; Gaz. vol. 162; p. 971.
Strainer, Feed-water. A. B. Potts. No. 1,000,843; Aug. 15; Sp. p. 3506; Gaz. vol. 169; p. 630.
Strainer for sink-outlets. H. A. Peters. No. 989,410; Apr. 11; Sp. p. 2370; Gaz. vol. 165; p. 400.

Alphabetical list of inventions—Continued.

Strainer, Gasolene-. H. D. Waterhouse. No. 1,002,099; Aug. 29; Sp. p. 6184; Gaz. vol. 169; p. 1118.
Strainer-holder. J. H. Knapp. No. 984,225; Feb. 14; Sp. p. 2121; Gaz. vol. 163; p. 360.
Strainer, Kettle-. J. F. McCann. No. 984,954; Feb. 21; Sp. p. 3655; Gaz. vol. 163; p. 644.
Strainer, Liquid-. I. N. Tousley. No. 1,005,366; Oct. 10; Sp. p. 1740; Gaz. vol. 171; p. 310.
Strainer or sand-valve. A. Hamill. No. 990,861; May 2; Sp. p. 80; Gaz. vol. 166; p. 15.
Strainer, Rain-water. M. McCallum. No. 996,994; July 4; Sp. p. 852; Gaz. vol. 168; p. 136.
Strainer, Sink-. H. Matthews. No. 981,448; Jan. 10; Sp. p. 2914; Gaz. vol. 162; p. 471.
Strainer, Tea and coffee. W. T. Parkin. No. 989,403; Apr. 11; Sp. p. 2356; Gaz. vol. 165; p. 398.
Strainer, Water-. F. E. Keyes. No. 993,839; May 30; Sp. p. 6474; Gaz. vol. 166; p. 1166.
Strainer, Well-. M. E. Layne. No. 1,001,655; Aug. 29; Sp. p. 5231; Gaz. vol. 169; p. 970.
Straining apparatus, Liquid-. F. Bailey and F. H. Jackson. No. 996,553; June 27; Sp. p. 5384; Gaz. vol. 167; p. 942.
Straining apparatus, Liquid-. E. E. Hauer. No. 1,001,027; Aug. 22; Sp. p. 3964; Gaz. vol. 169; p. 728.
Straining device. C. J. Schmidt. No. 992,268; May 16; Sp. p. 3093; Gaz. vol. 166; p. 563.
Straining-tank. F. W. Goetz and C. Flodin. No. 1,000,086; Aug. 8; Sp. p. 1847; Gaz. vol. 169; p. 334.
Strap: *See* Box-strap; Car-strap; Deckle-strap; Hand-strap; Lug-strap; Picker-strap; Pull-strap; Reinforced strap; Reverse friction-strap; Shackle-strap; Snow-shoe strap; Vehicle hanger-strap.
Strap and fastener. J. R. Hamilton. No. 988,090; Mar. 28; Sp. p. 4995; Gaz. vol. 164; p. 886.
Strap-tightener. P. D. Christman. No. 1,002,901; Sept. 12; Sp. p. 1624; Gaz. vol. 170; p. 281.
Straw-dispensing machine. M. and J. A. Korman. No. 995,157; June 13; Sp. p. 2322; Gaz. vol. 167; p. 401.
Straw-holder. D. H. Mosteller. No. 997,149; July 4; Sp. p. 1169; Gaz. vol. 168; p. 188.
Strawberry and raspberry extract, Making. E. G. Ressencourt. No. 1,001,556; Aug. 22; Sp. p. 5022; Gaz. vol. 169; p. 905.
Stream-controlling mechanism, Impact-. G. J. Henry. No. 1,002,517; Sept. 5; Sp. p. 749; Gaz. vol. 170; p. 110.
Street and station indicator. E. W. Mihok. No. 994,530; June 6; Sp. p. 889; Gaz. vol. 167; p. 147.
Street and station indicator. J. and M. Nelson. No. 998,630; July 25; Sp. p. 4420; Gaz. vol. 168; p. 809.
Street and station indicator. P. T. Spindler. No. 1,006,141; Oct. 17; Sp. p. 3456; Gaz. vol. 171; p. 613.
Street and station indicator. A. H. Carroll. No. 1,008,696; Nov. 14; Sp. p. 2415; Gaz. vol. 172; p. 408.
Street and station indicators, Operating device for. P. T. Spindler. No. 992,455; May 16; Sp. p. 3490; Gaz. vol. 166; p. 628.
Street and station indicators, Pneumatic operating device for. P. T. Spindler. No. 986,098; Mar. 7; Sp. p. 728; Gaz. vol. 164; p. 117.
Street-cleaning machine. J. B. D'Homergue. No. 981,652; Jan. 17; Sp. p. 3301; Gaz. vol. 162; p. 561.
Street-cleaning machine. E. De la Shaleri. No. 1,000,202; Aug. 8; Sp. p. 2095; Gaz. vol. 169; p. 373.
Street-cleaning pan. W. H. Rolfe and C. H. Baker. No. 981,883; Jan. 17; Sp. p. 3795; Gaz. vol. 162; p. 642.
Street-indicator. G. T. Rude. No. 993,201; May 23; Sp. p. 5082; Gaz. vol. 166; p. 916.
Street-indicator. W. D. Seale. No. 1,001,311; Aug. 22; Sp. p. 4553; Gaz. vol. 169; p. 824.
Street-indicator. C. G. Edson. No. 1,006,188; Oct. 17; Sp. p. 3563; Gaz. vol. 171; p. 631.
Street-indicator. W. A. Louth. No. 1,006,763; Oct. 24; Sp. p. 4851; Gaz. vol. 171; p. 861.
Street-indicator, Automatic. A. C. Richheimer and P. W. Koch. No. 980,336; Jan. 3; Sp. p. 308; Gaz. vol. 162; p. 55.
Street-indicator-operating mechanism. J. Turek. No. 1,007,507; Oct. 31; Sp. p. 6500; Gaz. vol. 171; p. 1175.
Street or station indicator. P. J. Mann. No. 1,009,253; Nov. 21; Sp. p. 3635; Gaz. vol. 172; p. 634.
Street-register. E. E. Hunstable. No. 986,061; Mar. 7; Sp. p. 653; Gaz. vol. 164; p. 105.
Street-sweeper. C. C. Brooks. No. 982,570; Jan. 24; Sp. p. 5270; Gaz. vol. 162; p. 909.
Street-sweeper. A. S. Machen. No. 989,377; Apr. 11; Sp. p. 2300; Gaz. vol. 165; p. 389.
Street-sweeper. A. S. Estlin. No. 996,230; June 27; Sp. p. 4675; Gaz. vol. 167; p. 833.
Street-sweeper. M. Edwards. No. 998,080; July 18; Sp. p. 3210; Gaz. vol. 168; p. 582.
Street-sweeper. N. M. Miller. No. 1,003,937; Sept. 19; Sp. p. 3829; Gaz. vol. 170; p. 672.
Street-sweeper. W. Wefer. No. 1,006,611; Oct. 24; Sp. p. 4545; Gaz. vol. 171; p. 810.
Street-sweeper. R. L. Shoemaker. No. 1,012,171; Dec. 19; Sp. p. 3992; Gaz. vol. 173; p. 689.
Street-sweeper and collector, Combined. J. T. Whittome. No. 1,001,107; Aug. 22; Sp. p. 4137; Gaz. vol. 169; p. 757.
Street-sweeper attachment. J. Wiess and W. McArthur. No. 990,322; Apr. 25; Sp. p. 4382; Gaz. vol. 165; p. 776.
Street-sweeping apparatus. A. D. Jones. No. 993,603; May 30; Sp. p. 5950; Gaz. vol. 166; p. 1083.
Street-sweeping machine. H. R. and O. A. Scheidler. No. 983,405; Feb. 7; Sp. p. 312; Gaz. vol. 163; p. 53.
Street-sweeping machine. B. F. Gregory. No. 1,000,798; Aug. 15; Sp. p. 3420; Gaz. vol. 169; p. 615.
Street washing and sprinkling machine. W. Ratican. No. 1,009,097; Nov. 21; Sp. p. 3275; Gaz. vol. 172; p. 580.
Street washing and sprinkling machines, Nozzle for. W. Ratican. No. 1,009,098; Nov. 21; Sp. p. 3277; Gaz. vol. 172; p. 580.
Street-washing apparatus. P. Shannon. No. 1,000,203; Aug. 8; Sp. p. 2098; Gaz. vol. 169; p. 374.
Stretcher, Foldable. F. Garpheide and W. Westerheide. No. 993,828; May 30; Sp. p. 6457; Gaz. vol. 166; p. 1162.
Stretcher for fractures. T. A. Christy. No. 990,525; Apr. 25; Sp. p. 4863; Gaz. vol. 165; p. 848.
Stretchers in ambulances, Means for supporting. J. T. Sheets. No. 986,650; Mar. 14; Sp. p. 1903; Gaz. vol. 164; p. 336.
Stretching and drying frame. A. Bender. No. 984,881; Feb. 21; Sp. p. 3508; Gaz. vol. 163; p. 621.
Stretching apparatus. C. J. and J. Gauer. No. 987,456; Mar. 21; Sp. p. 3593; Gaz. vol. 164; p. 639.
Strike-plate and door-antirattler, Adjustable. G. F. Witman. No. 1,005,914; Oct. 17; Sp. p. 2943; Gaz. vol. 171; p. 533.
Striker apparatus, Pneumatic. M. M. Kastner and C. Katz. No. 1,008,415; Nov. 14; Sp. p. 1776; Gaz. vol. 172; p. 309.
Striking-bag apparatus. J. T. Gorman. No. 992,868; May 23; Sp. p. 4372; Gaz. vol. 166; p. 803.
Striking-line. H. K. Kiso. No. 997,831; July 11; Sp. p. 2633; Gaz. vol. 168; p. 453.
Strip-rolls, Blocking attachment for. J. M. Henderson. No. 993,990; May 30; Sp. p. 6766; Gaz. vol. 166; p. 1216.
Strip-serving device. G. R. Wyman. No. 992,097; May 9; Sp. p. 2657; Gaz. vol. 166; p. 473.
Strip-serving device. S. Waring. No. 1,012,038; Dec. 19; Sp. p. 3696; Gaz. vol. 173; p. 644.
Strips, Machine for slitting reinforced. W. A. Brownrigg. No. 1,000,664; Aug. 15; Sp. p. 3135; Gaz. vol. 169; p. 568.
Striper, Double-line. H. E. King. No. 1,004,438; Sept. 26; Sp. p. 4955; Gaz. vol. 170; p. 871.
Stropper. I. W. Irving. No. 983,142; Jan. 31; Sp. p. 6490; Gaz. vol. 162; p. 1128.
Stropping-machine. H. Clauss. No. 985,975; Mar. 7; Sp. p. 473; Gaz. vol. 164; p. 76.
Stropping-machine. J. W. Hawkins. No. 999,222; Aug. 1; Sp. p. 62; Gaz. vol. 169; p. 12.
Stropping-machine. J. W. Hawkins. No. 1,011,429; Dec. 12; Sp. p. 2305; Gaz. vol. 173; p. 394.
Stropping-machine. I. Buchler. No. 1,011,571; Dec. 12; Sp. p. 2659; Gaz. vol. 173; p. 447.
Structural material, Manufacture of. C. E. Duncan and J. Fawell. No. 996,007; June 20; Sp. p. 4149; Gaz. vol. 167; p. 723.
Structural material, Manufacture of. J. Fawell. No. 996,008; June 20; Sp. p. 4151; Gaz. vol. 167; p. 723.
Structural shapes, Method of and apparatus for producing. H. Sack. No. 999,467; Aug. 1; Sp. p. 535; Gaz. vol. 169; p. 94.
Structure embodying enameled plates, Composite. E. Richardson. No. 994,337; June 6; Sp. p. 484; Gaz. vol. 167; p. 83.
Structure, Metallic. P. M. Wege. No. 999,929; Aug. 8; Sp. p. 1474; Gaz. vol. 169; p. 280.
Structure, Reinforced. D. B. Luten. No. 989,272; Apr. 11; Sp. p. 2073; Gaz. vol. 165; p. 354.
Structure, Reinforcing. J. F. Russell. No. 984,494; Feb. 14; Sp. p. 2667; Gaz. vol. 163; p. 449.
Stud and socket fastener. A. E. England. No. 985,887; Mar. 7; Sp. p. 276; Gaz. vol. 164; p. 44.
Stud, Collar-. G. S. Butterfield. No. 982,124; Jan. 17; Sp. p. 4340; Gaz. vol. 162; p. 724.
Stud-guard. E. P. Happich and A. Knaus. No. 995,866; June 20; Sp. p. 3885; Gaz. vol. 167; p. 675.
Stud, Metallic. G. W. Pyle. No. 993,102; May 23; Sp. p. 4888; Gaz. vol. 166; p. 886.
Stud or partition construction. H. E. Marks and E. C. Roberts. No. 1,011,218; Dec. 12; Sp. p. 1844; Gaz. vol. 173; p. 319.
Studs, Machine for setting snap-fastener. A. H. Greenebaum. No. 1,004,018; Sept. 26; Sp. p. 4019; Gaz. vol. 170; p. 727.
Stuffing-box. R. L. Lovell. No. 980,542; Jan. 3; Sp. p. 798; Gaz. vol. 162; p. 128.
Stuffing-box. J. Hahn. No. 987,296; Mar. 21; Sp. p. 3253; Gaz. vol. 164; p. 586.
Stuffing-box. W. Mosley. No. 988,730; Apr. 4; Sp. p. 957; Gaz. vol. 165; p. 152.
Stuffing-box. C. D. Campbell. No. 992,109; May 9; Sp. p. 2675; Gaz. vol. 166; p. 476.
Stuffing-box. L. Cirac. No. 1,002,806; Sept. 5; Sp. p. 1379; Gaz. vol. 170; p. 210.
Stuffing-box follower. W. G. Driggs. No. 993,660; May 30; Sp. p. 6095; Gaz. vol. 166; p. 1104.

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Stuffing-box for polished rods for oil-wells. F. H. Norris. No. 1,011,236; Dec. 12; Sp. p. 1884; Gaz. vol. 173; p. 325.
Stuffing-box for rotary parts. W. Fritz. No. 1,005,954; Oct. 17; Sp. p. 3048; Gaz. vol. 171; p. 549.
Stuffing-box gland. D. P. Fleming. No. 993,673; May 30; Sp. p. 6131; Gaz. vol. 166; p. 1109.
Stuffing-box lock. V. Morrison and A. H. Schlaegel. No. 1,003,641; Sept. 19; Sp. p. 3169; Gaz. vol. 170; p. 571.
Stuffing-box, Propeller-shaft. C. B. Adams. No. 994,709; June 13; Sp. p. 1311; Gaz. vol. 167; p. 249.
Stuffing-boxes, Apparatus for preparing gromets or packings for. W. Heron. No. 988,267; Mar. 28; Sp. p. 5328; Gaz. vol. 164; p. 942.
Stuffing-boxes, Device for cleaning the threads of. J. Maglenn. No. 984,577; Feb. 21; Sp. p. 2880; Gaz. vol. 163; p. 513.
Stump-burner. F. P. Rand. No. 1,002,752; Sept. 5; Sp. p. 1275; Gaz. vol. 170; p. 191.
Stump-eradicator. M. S. Presler. No. 984,965; Feb. 21; Sp. p. 3670; Gaz. vol. 163; p. 648.
Stump-exterminator. D. C. Anderson. No. 1,012,962; Dec. 26; Sp. p. 5725; Gaz. vol. 173; p. 1004.
Stump-extractor. R. Yeo. No. 1,006,336; Oct. 17; Sp. p. 3902; Gaz. vol. 171; p. 682.
Stump-extractor. W. H. Wright. No. 1,009,369; Nov. 21; Sp. p. 3901; Gaz. vol. 172; p. 677.
Stump-puller. A. T. Fairey. No. 982,805; Jan. 31; Sp. p. 5769; Gaz. vol. 162; p. 1016.
Stump-puller. H. Gordon. No. 992,419; May 16; Sp. p. 3428; Gaz. vol. 166; p. 617.
Stump-puller. S. Burton. No. 997,901; July 11; Sp. p. 2790; Gaz. vol. 168; p. 477.
Stump-puller and land-clearing machine. C. A. Larson and J. W. Fordice. No. 993,258; May 23; Sp. p. 5200; Gaz. vol. 166; p. 933.
Stump-puller and stump-piler, Combined. I. L. Mitchell. No. 997,930; July 11; Sp. p. 2853; Gaz. vol. 168; p. 487.
Stumping-machine. M. D. Meek. No. 1,001,292; Aug. 22; Sp. p. 4494; Gaz. vol. 169; p. 816.
Submarine operating apparatus. C. Williamson. No. 1,010,559; Dec. 5; Sp. p. 348; Gaz. vol. 173; p. 55.
Submarine salvage apparatus. H. L. Bowdoin. No. 1,004,552; Oct. 3; Sp. p. 3; Gaz. vol. 171; p. 3.
Submarine workshop. W. H. Baker. No. 1,008,301; Nov. 14; Sp. p. 1438; Gaz. vol. 172; p. 268.
Substation-selector. H. O. Rugh. No. 995,294; June 13; Sp. p. 2574; Gaz. vol. 167; p. 446.
Subway construction. E. Diebitsch. No. 1,002,904; Sept. 12; Sp. p. 1632; Gaz. vol. 170; p. 282.
Subway-loops, Arrangement for intercommunicating. G. W. Jackson. No. 980,643; Jan. 3; Sp. p. 995; Gaz. vol. 162; p. 162.
Sucker-rod. O. L. McDonald and G. Mapes. No. 1,013,036; Dec. 26; Sp. p. 5883; Gaz. vol. 173; p. 1029.
Sucrose, Extracting. C. Rosenow. No. 989,876; Apr. 18; Sp. p. 3395; Gaz. vol. 165; p. 592.
Suction apparatus. F. Barby. No. 982,923; Jan. 31; Sp. p. 6033; Gaz. vol. 162; p. 1056.
Suction apparatus. A. Sauer. No. 1,006,291; Oct. 17; Sp. p. 3808; Gaz. vol. 171; p. 667.
Suction apparatus, Portable. A. Hein. No. 1,013,014; Dec. 26; Sp. p. 5840; Gaz. vol. 173; p. 1021.
Suction-box. G. H. Sagar. No. 989,195; Apr. 11; Sp. p. 1890; Gaz. vol. 165; p. 328.
Suction-cleaner. T. B. Hatch and E. W. Goeser. No. 980,944; Jan. 10; Sp. p. 1693; Gaz. vol. 162; p. 293.
Suction-cleaner. H. Harrold. No. 994,462; June 6; Sp. p. 733; Gaz. vol. 167; p. 126.
Suction-cleaner. J. B. Powell. No. 1,008,366; Nov. 14; Sp. p. 1631; Gaz. vol. 172; p. 292.
Suction-cleaner. F. A. English. No. 1,012,195; Dec. 19; Sp. p. 4059; Gaz. vol. 173; p. 697.
Suction priming-cup. O. E. Appel. No. 993,942; May 30; Sp. p. 6666; Gaz. vol. 166; p. 1199.
Suction-producing device. J. H. Goehst and J. A. Dunlap. No. 993,053; May 23; Sp. p. 4776; Gaz. vol. 166; p. 868.
Suction-roll. J. Kieren. No. 991,999; May 9; Sp. p. 2479; Gaz. vol. 166; p. 441.
Suction-roll. W. H. Millspaugh. No. 994,863; June 13; Sp. p. 1692; Gaz. vol. 167; p. 303.
Suction-roll. O. H. Dowell. No. 1,008,407; Nov. 14; Sp. p. 1756; Gaz. vol. 172; p. 306.
Suction-tread. J. R. Sanford. No. 989,514; Apr. 11; Sp. p. 2576; Gaz. vol. 165; p. 436.
Sugar, Crystallizing. P. Kestner. No. 989,366; Apr. 11; Sp. p. 2273; Gaz. vol. 165; p. 386.
Sugar-cutting attachment for sugar-centrifugals. G. Vives. No. 1,012,766; Dec. 26; Sp. p. 5235; Gaz. vol. 173; p. 937.
Sugar-driers, Centrifugal attachment for. J. C. Chaix and E. Duhé. No. 1,004,556; Oct. 3; Sp. p. 12; Gaz. vol. 171; p. 5.
Sugar, Manufacture of. H. A. J. Manoury. No. 984,578; Feb. 21; Sp. p. 2882; Gaz. vol. 163; p. 514.
Sugar manufacture, Purifying raw juices in the. M. Kowalski. No. 994,646; June 6; Sp. p. 1149; Gaz. vol. 167; p. 188.
Sugar, Manufacturing. W. Henning. No. 991,505; May 9; Sp. p. 1445; Gaz. vol. 166; p. 272.
Sugar, Refining. H. Wiese. No. 991,580; May 9; Sp. p. 1621; Gaz. vol. 166; p. 299.
Sugar syrups into crystallized sugar, Directly converting. C. Grière. No. 988,261; Mar. 28; Sp. p. 5311; Gaz. vol. 164; p. 940.
Sugar-washing machine. A. Plecher and F. Kaspar. No. 995,900; June 20; Sp. p. 3953; Gaz. vol. 167; p. 685.
Suit-case. F. Holland. No. 988,937; Apr. 4; Sp. p. 1356; Gaz. vol. 165; p. 217.
Suit-case lock. J. Roche. No. 995,722; June 20; Sp. p. 3549; Gaz. vol. 167; p. 625.
Suit-cases and the like, Attachment for. L. Spiro. No. 1,001,563; Aug. 22; Sp. p. 5036; Gaz. vol. 169; p. 908.
Suit-cases, trunks, and the like, Follower for. C. F. Fink. No. 1,003,134; Sept. 12; Sp. p. 2093; Gaz. vol. 170; p. 360.
Suit, Combination athletic. H. C. Routery. No. 989,193; Apr. 11; Sp. p. 1886; Gaz. vol. 165; p. 328.
Suit-hanger, Adjustable. H. W. Hunter. No. 1,009,522; Nov. 21; Sp. p. 4244; Gaz. vol. 172; p. 731.
Sulfur dioxid, Device for producing. P. Contamin. No. 996,215; June 27; Sp. p. 4647; Gaz. vol. 167; p. 829.
Sulfur dioxid, Making. F. Meyer. No. 1,008,847; Nov. 14; Sp. p. 2733; Gaz. vol. 172; p. 460.
Sulfur, Obtaining. W. Feld. No. 985,667; Feb. 28; Sp. p. 5219; Gaz. vol. 163; p. 922.
Sulfuric anhydrid, Making. J. McFetridge. No. 988,646; Apr. 4; Sp. p. 767; Gaz. vol. 165; p. 122.
Sulky, Child's folding. W. E. Lindley. No. 1,003,622; Sept. 19; Sp. p. 3132; Gaz. vol. 170; p. 565.
Sunshade. R. F. Bickerton. No. 1,008,109; Nov. 7; Sp. p. 995; Gaz. vol. 172; p. 160.
Superheater. W. F. Pettigrew. No. 984,294; Feb. 14; Sp. p. 2271; Gaz. vol. 163; p. 384.
Superheater. C. Howard. No. 996,765; July 4; Sp. p. 334; Gaz. vol. 168; p. 56.
Superheater. J. Milne. No. 997,688; July 11; Sp. p. 2270; Gaz. vol. 168; p. 402.
Superheater. J. F. Fink and S. T. Hill. No. 998,489; July 18; Sp. p. 4104; Gaz. vol. 168; p. 727.
Superheater. S. Munson. No. 1,011,475; Dec. 12; Sp. p. 2413; Gaz. vol. 173; p. 412.
Superheater, Tubular. W. Schmidt. No. 1,010,962; Dec. 5; Sp. p. 1243; Gaz. vol. 173; p. 197.
Superheating-generator. E. Wiart. No. 999,284; Aug. 1; Sp. p. 173; Gaz. vol. 169; p. 33.
Superphosphate, Making. R. Williams. No. 1,003,681; Sept. 19; Sp. p. 3259; Gaz. vol. 170; p. 586.
Superphosphates, Making. G. Cusatelli. No. 997,968; July 18; Sp. p. 2957; Gaz. vol. 168; p. 542.
Support, Adjustable. A. R. Barnett. No. 1,003,865; Sept. 19; Sp. p. 3641; Gaz. vol. 170; p. 647.
Support for hinged or other movable members. C. Vallone. No. 988,052; Mar. 28; Sp. p. 4916; Gaz. vol. 164; p. 872.
Supporting and tipping stand. G. A. Minor. No. 996,658; July 4; Sp. p. 129; Gaz. vol. 168; p. 23.
Supporting-brace. W. Wait. No. 1,000,465; Aug. 15; Sp. p. 2673; Gaz. vol. 169; p. 496.
Supporting devices, Appliance for. T. A. B. Carver. No. 1,001,351; Aug. 22; Sp. p. 4634; Gaz. vol. 169; p. 837.
Supporting-guide. A. E. Miller. No. 1,005,055; Oct. 3; Sp. p. 1053; Gaz. vol. 171; p. 176.
Supporting-hook. J. Howard. No. 1,005,838; Oct. 17; Sp. p. 2777; Gaz. vol. 171; p. 506.
Supporting mechanism. A. Scheible. No. 987,175; Mar. 21; Sp. p. 2987; Gaz. vol. 164; p. 542.
Supporting-rack. G. Winter. No. 1,002,104; Aug. 29; Sp. p. 6190; Gaz. vol. 169; p. 1119.
Suprarenal gland, Preparing extractive compounds of the. C. E. Vanderkleed. No. 1,000,214; Aug. 8; Sp. p. 2126; Gaz. vol. 169; p. 378.
Surface defects, Removing. F. N. Speller. No. 1,006,602; Oct. 24; Sp. p. 4528; Gaz. vol. 171; p. 807.
Surface-gage, Protractor. F. Romancsik. No. 1,001,986; Aug. 29; Sp. p. 5976; Gaz. vol. 169; p. 1082.
Surfacing-machine. E. J. Bein. No. 981,159; Jan. 10; Sp. p. 2240; Gaz. vol. 162; p. 370.
Surfacing-machine. G. Alloway. No. 982,408; Jan. 24; Sp. p. 4928; Gaz. vol. 162; p. 853.
Surfacing-machine. F. R. Allen. No. 992,730; May 16; Sp. p. 4057; Gaz. vol. 166; p. 724.
Surfacing-machine steering-gear. R. and W. Stipe. No. 984,450; Feb. 14; Sp. p. 2569; Gaz. vol. 163; p. 435.
Surfacing material and producing same. M. A. Pophess. No. 1,008,433; Nov. 14; Sp. p. 1813; Gaz. vol. 172; p. 314.
Surgical apparatus for drying wounds or the like. H. A. W. Grube. No. 1,008,815; Nov. 14; Sp. p. 2674; Gaz. vol. 172; p. 449.
Surgical appliance. S. G. Leyson. No. 992,013; May 9; Sp. p. 2503; Gaz. vol. 166; p. 445.
Surgical appliance. J. E. Heyser. No. 995,600; June 20; Sp. p. 3300; Gaz. vol. 167; p. 581.
Surgical appliance. G. A. Conrad. No. 996,836; July 4; Sp. p. 482; Gaz. vol. 168; p. 80.
Surgical appliance. J. W. Lang. No. 997,067; July 4; Sp. p. 1006; Gaz. vol. 168; p. 161.
Surgical appliance. C. S. Baxter. No. 1,011,146; Dec. 12; Sp. p. 1679; Gaz. vol. 173; p. 295.

Alphabetical list of inventions—Continued.

Surgical atomizer. A. Truesdale and W. S. Virgin. No. 984,619; Feb. 21; Sp. p. 2979; Gaz. vol. 163; p. 529.
Surgical forceps. P. Frisch. No. 984,756; Feb. 21; Sp. p. 3275; Gaz. vol. 163; p. 578.
Surgical forceps. W. H. Hudson. No. 988,939; Apr. 4; Sp. p. 1359; Gaz. vol. 165; p. 217.
Surgical implement. J. A. Fulton. No. 1,011,607; Dec. 12; Sp. p. 2750; Gaz. vol. 173; p. 461.
Surgical instrument. W. W. Stewart. No. 994,884; June 13; Sp. p. 1757; Gaz. vol. 167; p. 310.
Surgical instrument. R. A. Bachmann. No. 998,148; July 18; Sp. p. 3360; Gaz. vol. 168; p. 606.
Surgical instrument. F. R. Mueller and L. Rehthaler. No. 1,002,427; Sept. 5; Sp. p. 568; Gaz. vol. 170; p. 80.
Surgical instrument. J. A. Boffin. No. 1,006,052; Oct. 17; Sp. p. 3248; Gaz. vol. 171; p. 581.
Surgical instrument for cutting bandages. O. Hasselmann. No. 989,255; Apr. 11; Sp. p. 2042; Gaz. vol. 165; p. 349.
Surgical needle. C. G. Davis. No. 989,234; Apr. 11; Sp. p. 1985; Gaz. vol. 165; p. 341.
Surgical operating-table. H. L. Davenport. No. 1,011,038; Dec. 5; Sp. p. 1390; Gaz. vol. 173; p. 221.
Surgical operations, Sewing device for. F. Hahn and R. Graf. No. 1,009,065; Nov. 21; Sp. p. 3211; Gaz. vol. 172; p. 569.
Surveying and cruising instrument. J. Barbow. No. 994,901; June 13; Sp. p. 1791; Gaz. vol. 167; p. 315.
Surveying bore-holes, Instrument for. G. J. Maas. No. 1,003,624; Sept. 19; Sp. p. 3136; Gaz. vol. 170; p. 566.
Surveying instrument. D. C. Harrison. No. 984,138; Feb. 14; Sp. p. 1915; Gaz. vol. 163; p. 329.
Surveying instrument. J. Barbow. No. 991,598; May 9; Sp. p. 1662; Gaz. vol. 166; p. 306.
Surveying instrument. A. M. Weimer. No. 994,665; June 6; Sp. p. 1195; Gaz. vol. 167; p. 194.
Surveying instrument. J. Wainwright. No. 997,222; July 4; Sp. p. 1314; Gaz. vol. 168; p. 214.
Surveying instrument. P. Jones. No. 997,826; July 11; Sp. p. 2625; Gaz. vol. 168; p. 451.
Surveying instrument. C. L. Berger. No. 1,003,419; Sept. 19; Sp. p. 2684; Gaz. vol. 170; p. 493.
Surveying instrument, Multimeter. D. W. Adams. No. 1,003,857; Sept. 19; Sp. p. 3620; Gaz. vol. 170; p. 644.
Surveying instruments or transits, Attachment for. C. M. Pidgeon. No. 989,288; Apr. 11; Sp. p. 2114; Gaz. vol. 165; p. 360.
Surveyor's combination grip and level. A. Rogers. No. 1,004,084; Sept. 26; Sp. p. 4214; Gaz. vol. 170; p. 751.
Surveyor's instrument. E. G. Adams. No. 999,538; Aug. 1; Sp. p. 683; Gaz. vol. 169; p. 117.
Suspender cast-off. A. Oppenheim and E. Cleary. No. 981,676; Jan. 17; Sp. p. 3350; Gaz. vol. 162; p. 569.
Suspender-end cast-off. E. H. Humphrey. No. 986,060; Mar. 7; Sp. p. 652; Gaz. vol. 164; p. 105.
Suspender, Sock and like. P. E. Bailly, M. A. Vautier, and E. C. M. Godard. No. 997,033; July 4; Sp. p. 945; Gaz. vol. 168; p. 150.
Suspenders. J. C. Hodges. No. 983,900; Feb. 14; Sp. p. 1413; Gaz. vol. 163; p. 250.
Suspenders. M. Cohen. No. 986,362; Mar. 7; Sp. p. 1272; Gaz. vol. 164; p. 205.
Suspenders. E. P. Hudson and F. W. Mally. No. 993,527; May 30; Sp. p. 5791; Gaz. vol. 166; p. 1057.
Suspenders. C. H. Stites. No. 1,010,703; Dec. 5; Sp. p. 666; Gaz. vol. 173; p. 107.
Suspenders, Adjustable back attachment for. L. Katzner. No. 994,165; June 6; Sp. p. 127; Gaz. vol. 167; p. 23.
Suspenders, Garment-. I. M. Webber. No. 984,172; Feb. 14; Sp. p. 1985; Gaz. vol. 163; p. 340.
Suspending structure for fragile articles. S. W. Oglesby and F. R. Ayton. No. 987,162; Mar. 21; Sp. p. 2955; Gaz. vol. 164; p. 538.
Suspension-hook. A. W. Martin. No. 993,262; May 23; Sp. p. 5206; Gaz. vol. 166; p. 934.
Suspension-wheel. H. Clifford. No. 996,315; June 27; Sp. p. 4886; Gaz. vol. 167; p. 861.
Suspensories, Take-up for flexible. J. W. Milam. No. 980,319; Jan. 3; Sp. p. 272; Gaz. vol. 162; p. 50.
Swab. J. B. Kline. No. 1,004,280; Sept. 26; Sp. p. 4625; Gaz. vol. 170; p. 817.
Swab-holder. B. Steinert. No. 986,029; Mar. 7; Sp. p. 590; Gaz. vol. 164; p. 95.
Swage. C. P. A. Rasmussen and F. M. Taggartt. No. 1,010,954; Dec. 5; Sp. p. 1226; Gaz. vol. 173; p. 194.
Swaging-machine. G. H. Day. No. 1,006,832; Oct. 24; Sp. p. 5023; Gaz. vol. 171; p. 887.
Swather or sickle-bar head. A. Honey. No. 999,452; Aug. 1; Sp. p. 513; Gaz. vol. 169; p. 90.
Sweater. B. Rautenberg. No. 991,370; May 2; Sp. p. 1167; Gaz. vol. 166; p. 194.
Sweep attachment. J. C. Lundell. No. 983,629; Feb. 7; Sp. p. 801; Gaz. vol. 163; p. 128.
Sweep attachment. C. M. Fowler. No. 997,384; July 11; Sp. p. 1651; Gaz. vol. 168; p. 299.
Sweep-rake. C. Pearson. No. 989,036; Apr. 11; Sp. p. 1564; Gaz. vol. 165; p. 274.
Sweep-rake. E. B. Rock. No. 1,006,284; Oct. 17; Sp. p. 3798; Gaz. vol. 171; p. 665.
Sweep-rake approach. V. C. Palmer, H. Joseph, and J. F. Sullivan. No. 982,386; Jan. 24; Sp. p. 4886; Gaz. vol. 162; p. 846.
Sweeper. L. Brucker. No. 982,240; Jan. 24; Sp. p. 4563; Gaz. vol. 162; p. 794.
Sweeper. J. H. Woodbury. No. 984,336; Feb. 14; Sp. p. 2349; Gaz. vol. 163; p. 398.
Sweeping-machine. P. Haerst. No. 990,128; Apr. 18; Sp. p. 3917; Gaz. vol. 165; p. 676.
Sweeping-machine. J. Cable. No. 998,745; July 25; Sp. p. 4698; Gaz. vol. 168; p. 850.
Sweeping-machine. L. B. Hooker. No. 1,000,912; Aug. 15; Sp. p. 3645; Gaz. vol. 169; p. 655.
Swimmer's appliance. W. Enders. No. 1,004,394; Sept. 26; Sp. p. 4851; Gaz. vol. 170; p. 857.
Swimmer's device, Attachable. J. O. Massey. No. 999,821; Aug. 8; Sp. p. 1239; Gaz. vol. 169; p. 242.
Swimming and life-preserving device, Combined. G. W. Learman. No. 1,008,653; Nov. 14; Sp. p. 2333; Gaz. vol. 172; p. 394.
Swimming appliance. J. G. Alfier and M. J. Maneas. No. 998,146; July 18; Sp. p. 3356; Gaz. vol. 168; p. 605.
Swimming appliance. E. Jasper, Jr. No. 1,011,964; Dec. 19; Sp. p. 3519; Gaz. vol. 173; p. 616.
Swimming device. J. Wells. No. 993,927; May 30; Sp. p. 6623; Gaz. vol. 166; p. 1194.
Swimming device. J. A. Edwards. No. 994,136; June 6; Sp. p. 68; Gaz. vol. 167; p. 14.
Swimming device. R. N. Bressler. No. 1,002,558; Sept. 5; Sp. p. 840; Gaz. vol. 170; p. 124.
Swimming device. E. G. Halvorsen. No. 1,007,867; Nov. 7; Sp. p. 511; Gaz. vol. 172; p. 77.
Swing. R. H. King. No. 984,091; Feb. 14; Sp. p. 1832; Gaz. vol. 163; p. 315.
Swing. M. Blachmann. No. 993,747; May 30; Sp. p. 6288; Gaz. vol. 166; p. 1135.
Swing. A. F. Ewart and S. Haenny. No. 995,239; June 13; Sp. p. 2468; Gaz. vol. 167; p. 427.
Swing. G. D. Tucker. No. 1,003,828; Sept. 19; Sp. p. 3559; Gaz. vol. 170; p. 633.
Swing, Automatic. L. T. Turmelle. No. 989,517; Apr. 11; Sp. p. 2594; Gaz. vol. 165; p. 437.
Swing, Circular pleasure-. J. A. Whitlock. No. 987,419; Mar. 21; Sp. p. 3509; Gaz. vol. 164; p. 627.
Swing, Couch-. T. C. Carey. No. 1,001,812; Aug. 29; Sp. p. 5583; Gaz. vol. 169; p. 1024.
Swing, Folding. W. H. Mockabee. No. 1,006,670; Oct. 24; Sp. p. 4659; Gaz. vol. 171; p. 830.
Swing, Lawn-. W. S. Tothill. No. 993,000; May 23; Sp. p. 4659; Gaz. vol. 166; p. 849.
Swing, Lawn-. P. H. Murray. No. 995,983; June 20; Sp. p. 4108; Gaz. vol. 167; p. 715.
Swing-operated motor. E. Locke. No. 1,010,652; Dec. 5; Sp. p. 557; Gaz. vol. 173; p. 89.
Swinging gate. Y. Masuzawa. No. 990,447; Apr. 25; Sp. p. 4676; Gaz. vol. 165; p. 822.
Swinging gate. J. A. Carpenter. No. 1,012,060; Dec. 19; Sp. p. 3745; Gaz. vol. 173; p. 650.
Swingletree. E. G. Bormann. No. 982,788; Jan. 31; Sp. p. 5728; Gaz. vol. 162; p. 1011.
Swingletree. J. F. Royals. No. 984,028; Feb. 14; Sp. p. 1699; Gaz. vol. 163; p. 292.
Swingletree and neck-yoke. W. R. Yeagle. No. 994,491; June 6; Sp. p. 789; Gaz. vol. 167; p. 135.
Swingletree-clip. L. B. Hartzell. No. 1,008,715; Nov. 14; Sp. p. 2455; Gaz. vol. 172; p. 415.
Switch: *See* Automatic switch; Can-switch; Canopy-switch; Car-switch; Centrifugal switch; Circuit-controlling switch; Clock-controlled switch; Commutator-switch; Current-switch; Current potential switch; Electric switch; Electric-circuit switch; Electric-light switch; Electric snap-switch; Electric time-switch; Electric track-switch; Electrical switch; Electromagnetic switch; Electromagnetically-operated switch; Electro-thermal switch; End-cell switch; Fuse-switch; Ice-skid switch; Key-switch; Knife-switch; Lamp-socket switch; Lock-switch; Manhole-switch; Monorail-switch; Motor-controlled switch; Motor-controlling switch; Motor-starter switch; Motor-starting switch; Oil-switch; Overhead switch; Pendent switch; Pole-reversing switch; Pull-switch; Pump-controlling switch; Push-button switch; Railway-switch; Railway safety-switch; Railway-track switch; Rotary switch; Snap-switch; Solenoid-operated switch; Sparking-device switch; Spring-switch; Spring-jack switch; Tank-switch; Three-throw switch; Time-switch; Time-controlled switch; Tramway-switch; Trolley-switch; Trolley-track safety-switch; Waterproof switch.
Switch. G. E. Palmer. No. 984,238; Feb. 14; Sp. p. 2146; Gaz. vol. 163; p. 364.
Switch. C. E. Carpenter. No. 985,509; Feb. 28; Sp. p. 4903; Gaz. vol. 163; p. 869.
Switch. B. A. Clayton. No. 985,658; Feb. 28; Sp. p. 5204; Gaz. vol. 163; p. 920.
Switch. E. E. Yaxley. No. 987,338; Mar. 21; Sp. p. 3337; Gaz. vol. 164; p. 599.
Switch. G. W. Hart. No. 987,984; Mar. 28; Sp. p. 4769; Gaz. vol. 164; p. 850.
Switch. G. W. Hart. No. 987,985; Mar. 28; Sp. p. 4772; Gaz. vol. 164; p. 851.

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Switch. I. A. Groves. No. 988,089; Mar. 28; Sp. p. 4993; Gaz. vol. 164; p. 885.
Switch. G. W. Hart. No. 988,094; Mar. 28; Sp. p. 5006; Gaz. vol. 164; p. 887.
Switch. V. D. Shuster. No. 989,197; Apr. 11; Sp. p. 1892; Gaz. vol. 165; p. 329.
Switch. C. Huffman. No. 989,364; Apr. 11; Sp. p. 2270; Gaz. vol. 165; p. 385.
Switch. J. W. Jepson and W. F. Bouché. No. 993,378; May 30; Sp. p. 5466; Gaz. vol. 166; p. 1006.
Switch. F. C. Chlan. No. 993,756; May 30; Sp. p. 6306; Gaz. vol. 166; p. 1137.
Switch. C. E. Carpenter. No. 996,973; July 4; Sp. p. 782; Gaz. vol. 168; p. 128.
Switch. G. W. Hart. No. 999,782; Aug. 8; Sp. p. 1167; Gaz. vol. 169; p. 230.
Switch. H. E. Leppert. No. 999,808; Aug. 8; Sp. p. 1216; Gaz. vol. 169; p. 238.
Switch. R. Cawyer and J. D. Gattis. No. 1,003,430; Sept. 19; Sp. p. 2710; Gaz. vol. 170; p. 497.
Switch. G. G. Stout. No. 1,005,899; Oct. 17; Sp. p. 2909; Gaz. vol. 171; p. 528.
Switch. B. Haskins. No. 1,007,948; Nov. 7; Sp. p. 679; Gaz. vol. 172; p. 105.
Switch. H. Marshall. No. 1,009,677; Nov. 21; Sp. p. 4526; Gaz. vol. 172; p. 779.
Switch. O. M. Torrence. No. 1,011,673; Dec. 12; Sp. p. 2892; Gaz. vol. 173; p. 483.
Switch and cut-out device, Electric. R. Birnn. No. 992,478; May 16; Sp. p. 3553; Gaz. vol. 166; p. 637.
Switch and fuse support and cover. W. J. Gibbons. No. 984,759; Feb. 21; Sp. p. 3281; Gaz. vol. 163; p. 579.
Switch and signal device, Safety. A. Swartz and R. Holland. No. 1,012,028; Dec. 19; Sp. p. 3679; Gaz. vol. 173; p. 640.
Switch and signal mechanism, Automatic. C. M. Hurst. No. 989,977; Apr. 18; Sp. p. 3620; Gaz. vol. 165; p. 627.
Switch and signal system recorder. A. C. Horton. No. 1,005,037; Oct. 3; Sp. p. 1024; Gaz. vol. 171; p. 170.
Switch-box. C. N. Sachs. No. 1,007,802; Nov. 7; Sp. p. 347; Gaz. vol. 172; p. 55.
Switch-box, Adjustable. E. H. Kruse. No. 989,854; Apr. 18; Sp. p. 3355; Gaz. vol. 165; p. 585.
Switch-box, Electric. M. M. Disler. No. 990,120; Apr. 18; Sp. p. 3898; Gaz. vol. 165; p. 674.
Switch box or receptacle. C. C. Maison. No. 982,841; Jan. 31; Sp. p. 5843; Gaz. vol. 162; p. 1029.
Switch-clip. G. R. Hebden. No. 995,599; June 20; Sp. p. 3299; Gaz. vol. 167; p. 581.
Switch-closer, Automatic. W. Noakes. No. 994,269; June 6; Sp. p. 345; Gaz. vol. 167; p. 59.
Switch construction, Automatic-. F. Tolbert. No. 998,050; July 18; Sp. p. 3137; Gaz. vol. 168; p. 571.
Switch-controller. H. D. Waterhouse. No. 992,305; May 16; Sp. p. 3171; Gaz. vol. 166; p. 577.
Switch device. O. K. Kjolseth. No. 1,010,640; Dec. 5; Sp. p. 538; Gaz. vol. 173; p. 85.
Switch device, Electric. R. D. Moyer. No. 990,285; Apr. 25; Sp. p. 4280; Gaz. vol. 165; p. 763.
Switch-frog. J. W. Walls. No. 987,027; Mar. 14; Sp. p. 2659; Gaz. vol. 164; p. 460.
Switch instrument. C. W. Coleman. No. 1,010,864; Dec. 5; Sp. p. 1044; Gaz. vol. 173; p. 163.
Switch-key. E. B. Craft. No. 1,012,125; Dec. 19; Sp. p. 3901; Gaz. vol. 173; p. 675.
Switch-lever. C. A. Dusch. No. 989,585; Apr. 18; Sp. p. 2790; Gaz. vol. 165; p. 493.
Switch-lock. G. Wuelser. No. 986,887; Mar. 14; Sp. p. 2407; Gaz. vol. 164; p. 416.
Switch-lock. W. E. Woodhouse and T. Bate. No. 987,784; Mar. 28; Sp. p. 4275; Gaz. vol. 164; p. 780.
Switch-lock. W. Anderson. No. 991,926; May 9; Sp. p. 2341; Gaz. vol. 166; p. 416.
Switch mechanism, Automatic. R. D. Johnston, Jr. No. 1,000,917; Aug. 15; Sp. p. 3655; Gaz. vol. 169; p. 656.
Switch mechanism. Electric. H. F. Whalton. No. 1,007,998; Nov. 7; Sp. p. 770; Gaz. vol. 172; p. 122.
Switch mechanism, Electric. G. S. Tiffany. No. 1,008,392; Nov. 14; Sp. p. 1712; Gaz. vol. 172; p. 301.
Switch mechanism, Electric. R. W. Armstrong. No. 1,008,514; Nov. 14; Sp. p. 2007; Gaz. vol. 172; p. 343.
Switch mechanism, Key-socket. H. J. Morey and F. A. Brogden. No. 997,406; July 11; Sp. p. 1687; Gaz. vol. 168; p. 306.
Switch mechanism, Selective. A. V. McPartland. No. 1,006,392; Oct. 17; Sp. p. 4023; Gaz. vol. 171; p. 701.
Switch-operating apparatus. E. R. Swain. No. 991,387; May 2; Sp. p. 1201; Gaz. vol. 166; p. 200.
Switch-operating apparatus. J. Saurug. No. 992,261; May 16; Sp. p. 3077; Gaz. vol. 166; p. 561.
Switch-operating device. H. F. Scatchard. No. 981,886; Jan. 17; Sp. p. 3800; Gaz. vol. 162; p. 643.
Switch-operating device. L. T. Limpert. No. 985,814; Mar. 7; Sp. p. 92; Gaz. vol. 164; p. 19.
Switch-operating device. L. O. Harbaugh. No. 986,282; Mar. 7; Sp. p. 1094; Gaz. vol. 164; p. 176.
Switch-operating device. J. J. Kern. No. 1,006,226; Oct. 17; Sp. p. 3658; Gaz. vol. 171; p. 644.
Switch-operating device. M. W. Davison. No. 1,011,039; Dec. 5; Sp. p. 1392; Gaz. vol. 173; p. 222.
Switch-operating device, Electric. B. Henrard and L. Lévêque. No. 990,869; May 2; Sp. p. 95; Gaz. vol. 166; p. 17.
Switch-operating means, Electric-. T. Pinckney. No. 981,683; Jan. 17; Sp. p. 3384; Gaz. vol. 162; p. 571.
Switch-operating mechanism. A. B. Allen. No. 980,473; Jan. 3; Sp. p. 634; Gaz. vol. 162; p. 104.
Switch-operating mechanism. J. A. Walker. No. 987,778; Mar. 28; Sp. p. 4268; Gaz. vol. 164; p. 778.
Switch-operating mechanism. R. A. Morrisey. No. 990,376; Apr. 25; Sp. p. 4501; Gaz. vol. 165; p. 795.
Switch-operating mechanism. F. McGuire. No. 993,089; May 23; Sp. p. 4847; Gaz. vol. 166; p. 880.
Switch-operating mechanism. J. Leith. No. 993,695; May 30; Sp. p. 6177; Gaz. vol. 166; p. 1117.
Switch-operating mechanism. A. E. Kaltschmidt. No. 998,525; July 18; Sp. p. 4177; Gaz. vol. 168; p. 739.
Switch-operating mechanism. B. A. Clayton. No. 1,003,876; Sept. 19; Sp. p. 3661; Gaz. vol. 170; p. 651.
Switch-operating mechanism. R. D. Johnston, Jr. No. 1,005,226; Oct. 10; Sp. p. 1409; Gaz. vol. 171; p. 258.
Switch-operating mechanism. M. L. Shepherd. No. 1,011,501; Dec. 12; Sp. p. 2474; Gaz. vol. 173; p. 422.
Switch-operating mechanism. M. L. Shepherd. No. 1,011,502; Dec. 12; Sp. p. 2477; Gaz. vol. 173; p. 422.
Switch-operating mechanism. Automatic. P. C. Ralph and W. Pinch. No. 991,087; May 2; Sp. p. 537; Gaz. vol. 166; p. 93.
Switch-operating mechanism, Automatic. J. C. Warren. No. 995,827; June 20; Sp. p. 3795; Gaz. vol. 167; p. 661.
Switch-operating rod, Electric-. C. R. Meston and H. I. Finch. No. 1,000,536; Aug. 15; Sp. p. 2827; Gaz. vol. 169; p. 521.
Switch or circuit-opener for high-potential circuits. C. C. Badeau. No. 996,394; June 27; Sp. p. 5058; Gaz. vol. 167; p. 891.
Switch receptacle, Electric-. J. G. Peterson. No. 998,119; July 18; Sp. p. 3308; Gaz. vol. 168; p. 596.
Switch-rod. T. O'Brien. No. 986,307; Mar. 7; Sp. p. 1142; Gaz. vol. 164; p. 184.
Switch safety mechanism, Operating means for. F. C. Anderson. No. 994,108; June 6; Sp. p. 7; Gaz. vol. 167; p. 4.
Switch-shifting device. A. Johnson. No. 1,009,149; Nov. 21; Sp. p. 3370; Gaz. vol. 172; p. 596.
Switch signal, Open-. G. H. Rice. No. 1,002,083; Aug. 29; Sp. p. 6157; Gaz. vol. 169; p. 1113.
Switch-stand. T. E. Calvert. No. 981,379; Jan. 10; Sp. p. 2749; Gaz. vol. 162; p. 447.
Switch-stand. W. F. Traves. No. 981,721; Jan. 17; Sp. p. 3449; Gaz. vol. 162; p. 584.
Switch-stand. C. E. Nowlin. No. 991,531; May 9; Sp. p. 1501; Gaz. vol. 166; p. 280.
Switch-stand. J. B. Strong. No. 1,005,081; Oct. 3; Sp. p. 1091; Gaz. vol. 171; p. 184.
Switch-stand. F. C. Anderson. No. 1,008,003; Nov. 7; Sp. p. 778; Gaz. vol. 172; p. 123.
Switch-stand, Automatic. J. A. Hoffman. No. 1,010,762; Dec. 5; Sp. p. 819; Gaz. vol. 173; p. 127.
Switch-stand, Interlocking. F. C. Anderson. No. 1,007,514; Oct. 31; Sp. p. 6514; Gaz. vol. 171; p. 1178.
Switch starter, Multiple-. F. R. Bacon. No. 993,434; May 30; Sp. p. 5587; Gaz. vol. 166; p. 1025.
Switch system, High and low potential selective. R. Stearns. No. 991,556; May 9; Sp. p. 1569; Gaz. vol. 166; p. 290.
Switch-throw. L. E. Keller. No. 981,282; Jan. 10; Sp. p. 2542; Gaz. vol. 162; p. 414.
Switch-thrower, Automatic. E. McNeil. No. 985,614; Feb. 28; Sp. p. 5122; Gaz. vol. 163; p. 905.
Switch throwing and locking apparatus. N. Buras and E. P. Larry. No. 991,422; May 2; Sp. p. 1264; Gaz. vol. 166; p. 211.
Switch-throwing device. E. R. Loebner. No. 1,006,961; Oct. 24; Sp. p. 5292; Gaz. vol. 171; p. 930.
Switch-throwing device, Automatic. J. W. Iron. No. 987,465; Mar. 21; Sp. p. 3610; Gaz. vol. 164; p. 643.
Switch-throwing mechanism. N. C. McConahy. No. 982,623; Jan. 24; Sp. p. 5372; Gaz. vol. 162; p. 926.
Switch-tongue. S. Canty. No. 990,336; Apr. 25; Sp. p. 4412; Gaz. vol. 165; p. 781.
Switch-tongue-actuating mechanism. O. Sann. No. 991,752; May 9; Sp. p. 1980; Gaz. vol. 166; p. 356.
Switches, Control of electrically-operated. E. R. Carichoff. No. 982,032; Jan. 17; Sp. p. 4156; Gaz. vol. 162; p. 693.
Switches, Emergency operating means for reversing-. F. E. Case. No. 982,033; Jan. 17; Sp. p. 4159; Gaz. vol. 162; p. 693.
Switches, Locking mechanism for rotary snap electric. J. G. Peterson. No. 980,557; Jan. 3; Sp. p. 829; Gaz. vol. 162; p. 134.
Switches, Mechanical movement for end-cell. J. W. Achard. No. 988,534; Apr. 4; Sp. p. 520; Gaz. vol. 165; p. 83.
Switches, Tension adjustment for pull-. C. D. Platt. No. 1,008,729; Nov. 14; Sp. p. 2497; Gaz. vol. 172; p. 420.
Switches, Tripping-device regulator for electrical. P. Herd. No. 991,849; May 9; Sp. p. 2184; Gaz. vol. 166; p. 389.
Switchboard. T. A. Hammond. No. 987,874; Mar. 28; Sp. p. 4469; Gaz. vol. 164; p. 811.

Alphabetical list of inventions—Continued.

Switchboard-plug. O. A. Spencer. No. 1,004,306; Sept. 26; Sp. p. 4673; Gaz. vol. 170; p. 827.
Switching apparatus, Automatic. F. R. McBerty. No. 1,009,080; Nov. 21; Sp. p. 3237; Gaz. vol. 172; p. 574.
Switching device. F. W. Harris. No. 981,759; Jan. 17; Sp. p. 3529; Gaz. vol. 162; p. 598.
Switching device. H. F. Gordon. No. 987,294; Mar. 21; Sp. p. 3246; Gaz. vol. 164; p. 585.
Switching device, Electromechanical. R. R. Miller. No. 1,007,886; Nov. 7; Sp. p. 544; Gaz. vol. 172; p. 83.
Switching devices, Contact member for electric. C. A. Tucker. No. 981,821; Jan. 17; Sp. p. 3670; Gaz. vol. 162; p. 621.
Switching mechanism. K. F. Kingwell. No. 1,001,650; Aug. 29; Sp. p. 5219; Gaz. vol. 169; p. 968.
Switching mechanism, Automatic electric. J. J. Fanning. No. 980,620; Jan. 3; Sp. p. 950; Gaz. vol. 162; p. 154.
Swivel. P. J. A. Schnoor. No. 1,002,875; Sept. 12; Sp. p. 1558; Gaz. vol. 170; p. 271.
Swivel connection or coupling. A. T. Booth. No. 994,815; June 13; Sp. p. 1567; Gaz. vol. 167; p. 287.
Swivel, Hydraulic. M. E. Layne, S. N. Hall, and C. F. Layne. No. 992,363; May 16; Sp. p. 3316; Gaz. vol. 166; p. 597.
Swivel-lock. J. M. Delmore. No. 999,967; Aug. 8; Sp. p. 1549; Gaz. vol. 169; p. 292.
Synchronism between the rotation of a controlling-machine and the rotation of one or more electrically-driven machines, Method and means of producing. E. L. A. Lertourné. No. 988,792; Apr. 4; Sp. p. 1075; Gaz. vol. 165; p. 172.
Synchronizing device. F. E. A. Mathelot and H. G. Gentilhomme. No. 993,610; May 30; Sp. p. 5965; Gaz. vol. 166; p. 1086.
Synchronous machines, Control of. H. W. Peck. No. 995,171; June 13; Sp. p. 2345; Gaz. vol. 167; p. 406.
Syringe. J. J. Brin. No. 983,871; Feb. 14; Sp. p. 1341; Gaz. vol. 163; p. 241.
Syringe. J. H. Sheets. No. 984,037; Feb. 14; Sp. p. 1717; Gaz. vol. 163; p. 296.
Syringe. J. F. Milligan. No. 984,148; Feb. 14; Sp. p. 1930; Gaz. vol. 163; p. 332.
Syringe. V. W. Piper. No. 987,910; Mar. 28; Sp. p. 4573; Gaz. vol. 164; p. 824.
Syringe. A. Ciolfi. No. 1,004,369; Sept. 26; Sp. p. 4798; Gaz. vol. 170; p. 848.
Syringe. J. R. Swift. No. 1,005,356; Oct. 10; Sp. p. 1721; Gaz. vol. 171; p. 307
Syringe. J. Payne. No. 1,012,700; Dec. 26; Sp. p. 5103; Gaz. vol. 173; p. 915.
Syringe, Aspirating-. C. Bevill. No. 986,263; Mar. 7; Sp. p. 1067; Gaz. vol. 164; p. 170.
Syringe, Hypodermic. W B. Parsons. No. 996,424; June 27; Sp. p. 5145; Gaz. vol. 167; p. 901.
Syringe, Medical. J. P. Tacey. No. 1,004,103; Sept. 26; Sp. p. 4256; Gaz. vol. 170; p. 758.
Syringe, Pocket-. D. W. Rees and H. E. Carmichael. No. 991,022; May 2; Sp. p. 406; Gaz. vol. 166; p. 70.
Syringe, Power-. J. Payne and J. E. Knapp. No. 996,128; June 27; Sp. p. 4420; Gaz. vol. 167; p. 800.
Syringe, Prostatic. N. Pernice. No. 994,190; June 6; Sp. p. 186; Gaz. vol. 167; p. 32.
Syringe, Subcutaneous. A. Schroeder. No. 1,008,078; Nov. 7; Sp. p. 926; Gaz. vol. 172; p. 149.
Syringe, Thermo-electric fountain-. N. E. Houser. No. 1,000,335; Aug. 8; Sp. p. 2354; Gaz. vol. 169; p. 417.
Syringe, Vaginal. D. L. Aber. No. 989,550; Apr. 18; Sp. p. 2697; Gaz. vol. 165; p. 481.
Syringe, Vaginal. A. L. Marsh. No. 1,007,468; Oct. 31; Sp. p. 6400; Gaz. vol. 171; p. 1162.
Syringes, Attachment for hypodermic. J. McCann. No. 1,007,471; Oct. 31; Sp. p. 6403; Gaz. vol. 171; p. 1163.
Syrup containing and dispensing apparatus. B. Lowenthal. No. 1,011,828; Dec. 12; Sp. p. 3203; Gaz. vol. 173; p. 535.
T and cock, Service. H. Mueller. No. 993,093; May 23; Sp. p. 4857; Gaz. vol. 166; p. 882.
T, Service-. P. Mueller. No. 992,975; May 23; Sp. p. 4610; Gaz. vol. 166; p. 841.
Table: *See* Adjustable table; Bed and lounging table; Card-table; Casting-table; Concentrator-table; Conveyer-table; Dining-table; Edger-table; Enameling-table; Ever-level table; Extensible table; Extension-table; Folding table; Garage turn-table; Glass-flattening table; Ironing-table; Marine table; Operating-table; Ore-concentrating table; Peeler's table; Pool-table; Pool and billiard table; Revolving stand-table; Saw-table; Self-leveling table; Serving-table; Spacing-table; Steam-table; Stoneworking-table; Straightening-table; Surgical operating-table; Tentering-machine feed-table; Tile-cutting table; Toy table; Truck turn-table; Turn-table; Type-writing table; Vertically-adjustable table.
Table. J. M. Horton. No. 983,903; Feb. 14; Sp. p. 1420; Gaz. vol. 163; p. 251.
Table. M. B. Dodson. No. 1,009,958; Nov. 28; Sp. p. 5113; Gaz. vol. 172; p. 922.
Table and bed, Combination. C. Eschenbruecher. No. 981,402; Jan. 10; Sp. p. 2808; Gaz. vol. 162; p. 455.
Table and work-box, Combined. M. E. Irving. No. 1,012,856; Dec. 26; Sp. p. 5475; Gaz. vol. 173; p. 969.
Table attachment. T. E. Jones. No. 1,011,805; Dec. 12; Sp. p. 3161; Gaz. vol. 173; p. 528.
Table base-lock, Extension-. H. M. Hanson. No 982,600; Jan. 24; Sp. p. 5326; Gaz. vol. 162; p. 918.
Table for application to chairs. R. C. Johnson. No. 1,008,037; Nov. 7; Sp. p. 844; Gaz. vol. 172; p. 134.
Table lock, Extension-. C. S. Burton. No. 994,907; June 13; Sp. p. 1804; Gaz. vol. 167; p. 318.
Table lock, Pedestal-extension-. E. Tyden. No. 981,144; Jan. 10; Sp. p. 2213; Gaz. vol. 162; p. 364.
Table lock, Pedestal-extension-. J. A. Barbrake. No. 1,001,803; Aug. 29; Sp. p. 5567; Gaz. vol. 169; p. 1021.
Table locking and opening device, Extension-. H. M. Hanson. No. 1,009,902; Nov. 28; Sp. p. 4997; Gaz. vol. 172; p. 902.
Table or like stand for advertising purposes and for displaying and storing articles and goods. F. Riedl. No. 997,701; July 11; Sp. p. 2300; Gaz. vol. 168; p. 407.
Table-stop clutch. C. H. Norton. No. 1,010,303; Nov. 28; Sp. p. 5824; Gaz. vol. 172; p. 1037.
Table-top, Auxiliary. O. F. Onken. No. 1,007,727; Nov. 7; Sp. p. 162; Gaz. vol. 172; p. 27.
Table-top protector. J. L. McKay. No. 983,920; Feb. 14; Sp. p. 1458; Gaz. vol. 163; p. 257.
Table with folding chair. G. R. Dahl. No. 997,277; July 11; Sp. p. 1432; Gaz. vol. 168; p. 264.
Tablet. S. I. Atwater. No. 1,006,711; Oct. 24; Sp. p. 4730; Gaz. vol. 171; p. 843.
Tablet-forming press. E. L. Payne, G. F. Taylor, and P. A. Peterson. No. 1,012,002; Dec. 19; Sp. p. 3614; Gaz. vol. 173; p. 630.
Tablet, Loose-leaf. E. Thompson. No. 991,393; May 2; Sp. p. 1212; Gaz. vol. 166; p. 202.
Tablet-making machine. C. M. Rost. No. 1,004,303; Sept. 26; Sp. p. 4669; Gaz. vol. 170; p. 826.
Tablets of glass, Manufacturing writing-. J. Schambony. No. 1,001,775; Aug. 29; Sp. p. 5501; Gaz. vol. 169; p. 1011.
Tablets or the like in piles, Appliance for clamping and transporting. W. F. Boring. No. 1,005,148; Oct. 10; Sp. p. 1225; Gaz. vol. 171; p. 229.
Tabulating apparatus. H. Hollerith. No. 998,095; July 18; Sp. p. 3256; Gaz. vol. 168; p. 587.
Tabulating mechanism. C. Spiro. No. 987,766; Mar. 28; Sp. p. 4241; Gaz. vol. 164; p. 774.
Tabulator-stop-setting device. W. E. Palmer. No. 1,008,053; Nov. 7; Sp. p. 873; Gaz. vol. 172; p. 140.
Tachometer. M. Hoeft. No. 1,005,035; Oct. 3; Sp. p. 1020; Gaz. vol. 171; p. 170.
Tachometer, Magnetic. J. K. Stewart. No. 989,659; Apr. 18; Sp. p. 2935; Gaz. vol. 165; p. 518.
Tachometer with spring loop and pawl mechanism. A. Wetzel. No. 1,009,947; Nov. 28; Sp. p. 5089; Gaz. vol. 172; p. 918.
Tack puller, Lasting-. J. H. Ricker. No. 1,004,081; Sept. 26; Sp. p. 4205; Gaz. vol. 170; p. 751.
Tack-pulling machine. J. B. Hadaway. No. 1,006,652; Oct. 24; Sp. p. 4619; Gaz. vol. 171; p. 823.
Tack-pulling machine. J. B. Hadaway. No. 1,011,773; Dec. 12; Sp. p. 3079; Gaz. vol. 173; p. 516.
Tack-pulling tool. J. B. Hadaway. No. 988,332; Apr. 4; Sp. p. 89; Gaz. vol. 165; p. 16.
Tack-pulling tool. J. B. Hadaway. No. 995,670; June 20; Sp. p. 3441; Gaz. vol. 167; p. 606.
Tack, Thumb-. T. E. Tracy. No. 1,002,609; Sept. 5; Sp. p. 959; Gaz. vol. 170; p. 142.
Tacking machine, Welt-butt-. A. A. MacLeod. No. 1,007,711; Nov. 7; Sp. p. 129; Gaz. vol. 172; p. 21.
Tag. G. T. Riebel. No. 986,759; Mar. 14; Sp. p. 2133; Gaz. vol. 164; p. 371.
Tag. W. D. Smith. No. 1,011,869; Dec. 12; Sp. p. 3294; Gaz. vol. 173; p. 547.
Tag-attaching device. J. F. Davis. No. 1,008,704; Nov. 14; Sp. p. 2434; Gaz. vol. 172; p. 411.
Tag, Baggage-. A. W. Schaefer. No. 989,297; Apr. 11; Sp. p. 2130; Gaz. vol. 165; p. 364.
Tag for umbrellas, Name-. J. Masko. No. 990,059; Apr. 18; Sp. p. 3781; Gaz. vol. 165; p. 654.
Tag, Hinged binding-. S. M. Simons. No. 998,646; July 25; Sp. p. 4460; Gaz. vol. 168; p. 815.
Tag holder for vehicles, License-. P. Hauck. No. 994,464; June 6; Sp. p. 738; Gaz. vol. 167; p. 126.
Tag-holding clip. L. Myers. No. 992,233; May 16; Sp. p. 2995; Gaz. vol. 166; p. 551.
Tag-machine. C. F. Smith. No. 986,232; Mar. 7; Sp. p. 982; Gaz. vol. 164; p. 160.
Tag-machine. J. W. Howe. No. 1,005,548; Oct. 10; Sp. p. 2123; Gaz. vol. 171; p. 374.
Tag-making machine. S. B. Seaton and R. G. Travis. No. 981,014; Jan. 10; Sp. p. 1923; Gaz. vol. 162; p. 319.
Tag, Shipping-. W. N. Senseman. No. 1,005,894; Oct. 17; Sp. p. 2902; Gaz. vol. 171; p. 526.
Tag, Trunk-. P. D. Goldblatt. No. 1,009,735; Nov. 28; Sp. p. 4657; Gaz. vol. 172; p. 846.
Tail-holder. D. Ball. No. 983,599; Feb. 7; Sp. p. 750; Gaz. vol. 163; p. 117.

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Tail-holder. J. A. Wallace. No. 1,011,292; Dec. 12; Sp. p. 2017; Gaz. vol. 173; p. 347.
Tail-stock. H. J. Hjorth. No. 981,426; Jan. 10; Sp. p. 2877; Gaz. vol. 162; p. 464.
Tail-stock. W. A. Greaves. No. 1,005,538; Oct. 10; Sp. p. 2101; Gaz. vol. 171; p. 370.
Tail-stock clamp. G. E. Greenleaf and F. S. Thompson. No. 1,006,205; Oct. 17; Sp. p. 3616; Gaz. vol. 171; p. 637.
Tailoring device. A. Ward. No. 1,002,613; Sept. 5; Sp. p. 973; Gaz. vol. 170; p. 144.
Tailoring instrument. G. Osborne. No. 998,258; July 18; Sp. p. 3593; Gaz. vol. 168; p. 645.
Tailor's press. J. Hill and K. Kosâc. No. 981,422; Jan. 10; Sp. p. 2866; Gaz. vol. 162; p. 462.
Take-up mechanism. R. Hammersley. No. 988,091; Mar. 28; Sp. p. 4998; Gaz. vol. 164; p. 886.
Talking-machine. J. A. Rabbitt. No. 993,793; May 30; Sp. p. 6377; Gaz. vol. 166; p. 1150.
Talking-machine. H. B. Babson and A. Haug. No. 1,005,765; Oct. 10; Sp. p. 2609; Gaz. vol. 171; p. 450.
Talking-machine. W. H. Pumphrey. No. 1,006,128; Oct. 17; Sp. p. 3422; Gaz. vol. 171; p. 608.
Talking-machine. J. C. English. No. 1,011,419; Dec. 12; Sp. p. 2287; Gaz. vol. 173; p. 390.
Talking-machine. J. C. English. No. 1,013,003; Dec. 26; Sp. p. 5817; Gaz. vol. 173; p. 1017.
Talking-machine amplifying-horn. R. A. Boswell. No. 999,954; Aug. 8; Sp. p. 1529; Gaz. vol. 169; p. 289.
Talking-machine attachment. E. T. Condon, Jr. No. 1,000,582; Aug. 15; Sp. p. 2947; Gaz. vol. 169; p. 539.
Talking-machine attachment. F. W. Schmidt. No. 1,001,171; Aug. 22; Sp. p. 4242; Gaz. vol. 169; p. 776.
Talking-machine diaphragm. W. W. Young. No. 982,197; Jan. 17; Sp. p. 4465; Gaz. vol. 162; p. 749.
Talking-machine diaphragms, Making. W. W. Young. No. 980,470; Jan. 3; Sp. p. 630; Gaz. vol. 162; p. 104.
Talking-machine disks, Device for automatically stopping. J. Louvet. No. 1,001,418; Aug. 22; Sp. p. 4775; Gaz. vol. 169; p. 860.
Talking-machine horn. W. Hess, Jr. No. 981,648; Jan. 17; Sp. p. 3296; Gaz. vol. 162; p. 560.
Talking-machine motor. L. P. Valiquet. No. 987,272; Mar. 21; Sp. p. 3203; Gaz. vol. 164; p. 579.
Talking-machine motor. H. C. Miller. No. 989,629; Apr. 18; Sp. p. 2871; Gaz. vol. 165; p. 507.
Talking-machine motor. J. A. Rabbitt. No. 996,522; June 27; Sp. p. 5317; Gaz. vol. 167; p. 932.
Talking-machine needle-receptacle. J. C. English. No. 1,011,420; Dec. 12; Sp. p. 2288; Gaz. vol. 173; p. 391.
Talking-machine sound-box. A. Fischer. No. 989,139; Apr. 11; Sp. p. 1778; Gaz. vol. 165; p. 309.
Talking-machine sound-box. R. L. Gibson. No. 990,973; May 2; Sp. p. 308; Gaz. vol. 166; p. 53.
Talking-machine sound-box. J. C. English. No. 1,001,004; Aug. 22; Sp. p. 3910; Gaz. vol. 169; p. 720.
Talking-machines, Automatic stop for. D. C. and J. W. Nelson. No. 982,293; Jan. 24; Sp. p. 4700; Gaz. vol. 162; p. 812.
Talking-machines, Cabinet-latch for. H. W. Troth. No. 997,343; July 11; Sp. p. 1578; Gaz. vol. 168; p. 286.
Talking-machines, Filing inclosure or casing for the records of. E. S. Oliver. No. 989,031; Apr. 11; Sp. p. 1553; Gaz. vol. 165; p. 272.
Talking-machines, Means for automatically arresting. A. E. Spencer and F. C. Thomas. No. 998,807; July 25; Sp. p. 4822; Gaz. vol. 168; p. 871.
Talking-machines, Means for automatically arresting. A. E. Spencer and F. C. Thomas. (Reissue.) No. 13,305; Oct. 31; Sp. p. 6839; Gaz. vol. 171; p. 1230.
Talking-machines, Picture-exhibiting device for. H. C. Matthews. No. 996,101; June 27; Sp. p. 4359; Gaz. vol. 167; p. 789.
Talking-machines, Picture-exhibiting device for. H. C. Matthews. No. 996,102; June 27; Sp. p. 4363; Gaz. vol. 167; p. 790.
Tallow substitute for lubricating purposes and manufacturing the same, Raw- K. Engel. No. 1,012,830; Dec. 26; Sp. p. 5411; Gaz. vol. 173; p. 960.
Tally-board. D. E. Coughlin. No. 1,009,383; Nov. 21; Sp. p. 3946; Gaz. vol. 172; p. 682.
Tally-box. C. Bradford. No. 1,005,502; Oct. 10; Sp. p. 2269; Gaz. vol. 171; p. 389.
Tally-card system. J. B. Brophy. No. 985,108; Feb. 21; Sp. p. 3942; Gaz. vol. 163; p. 696.
Tally or checking system. J. E. Condon. No. 994,819; June 13; Sp. p. 1574; Gaz. vol. 167; p. 288.
Tallying device. C. B. Wolf and E. B. Smith. No. 999,355; Aug. 1; Sp. p. 323; Gaz. vol. 169; p. 57.
Tambour-frame. R. E. Collier. No. 986,692; Mar. 14; Sp. p. 1984; Gaz. vol. 164; p. 349.
Tamper, Hand-. W. W. Cooley. No. 1,007,536; Oct. 31; Sp. p. 6559; Gaz. vol. 171; p. 1185.
Tamping apparatus. J. W. Bragstäd. No. 990,220; Apr. 25; Sp. p. 4129; Gaz. vol. 165; p. 739.
Tamping device. F. A. Ives. No. 1,012,360; Dec. 19; Sp. p. 4400; Gaz. vol. 173; p. 753.
Tamping implement. H. B. Andrews. No. 981,517; Jan. 10; Sp. p. 3033; Gaz. vol. 162; p. 494.
Tank: *See* Balancing tank; Bath-tank; Battery-tank; Concrete water-tank; Developing-tank; Dust-tank; Film-developing tank; Flush-tank; Flushing-tank; Gasolene-tank; Grain-tank; Ice-freezing tank; Liquid-tank; Liquid-cooling tank; Oil-tank; Oil-burner tank; Photographic developing-tank; Railway track-tank; Settling-tank; Soda-tank; Stock-tank; Storage-tank; Straining-tank; Tempering-tank; Water-tank; Water-closet tank.
Tank. L. Lindenberg. No. 1,006,572; Oct. 24; Sp. p. 4464; Gaz. vol. 171; p. 797.
Tank construction, Oil-. J. G. Hitchfield. No. 991,507; May 9; Sp. p. 1448; Gaz. vol. 166; p. 272.
Tank control, Flush-. B. S. Hodgkins. No. 990,132; Apr. 18; Sp. p. 3927; Gaz. vol. 165; p. 677.
Tank-cover fastener. H. Machin. No. 996,497; June 27; Sp. p. 5276; Gaz. vol. 167; p. 925.
Tank-gate. R. M. Clark. No. 990,706; Apr. 25; Sp. p. 5266; Gaz. vol. 165; p. 909.
Tank-head-bulging machine. J. D. Murphy. No. 1,013,046; Dec. 26; Sp. p. 5902; Gaz. vol. 173; p. 1032.
Tank-heater. D. M. Dunlap. No. 1,004,391; Sept. 26; Sp. p. 4846; Gaz. vol. 170; p. 856.
Tank-indicator. T. J. Maloney. No. 1,012,677; Dec. 26; Sp. p. 5042; Gaz. vol. 173; p. 905.
Tank-level signal. S. H. Gallagher. No. 1,012,624; Dec. 26; Sp. p. 4938; Gaz. vol. 173; p. 888.
Tank or container. J. F. Webb. No. 1,007,828; Nov. 7; Sp. p. 403; Gaz. vol. 172; p. 63.
Tank-switch, Electric. H. A. Prindle. No. 989,414; Apr. 11; Sp. p. 2380; Gaz. vol. 165; p. 402.
Tank-valve ball. L. A. Cornelius. No. 1,001,621; Aug. 29; Sp. p. 5167; Gaz. vol. 169; p. 957.
Tanks, Funnel attachment for. J. Schneider. No. 999,599; Aug. 1; Sp. p. 797; Gaz. vol. 169; p. 138.
Tankage and manure press. J. J. C. Singleton. No. 987,649; Mar. 21; Sp. p. 3959; Gaz. vol. 164; p. 706.
Tannin extracts, Decolorizing. J. Paessler and H. Arnoldi. No. 1,006,977; Oct. 24; Sp. p. 5332; Gaz. vol. 171; p. 936.
Tannin-silver-albumen compound. R. Weil. No. 982,910; Jan. 31; Sp. p. 6003; Gaz. vol. 162; p. 1052.
Tanning. A. Seyewetz and L. Meunier. No. 987,750; Mar. 28; Sp. p. 4207; Gaz. vol. 164; p. 768.
Tanning. O. H. Nowak. No. 996,509; June 27; Sp. p. 5295; Gaz. vol. 167; p. 929.
Tanning leather. J. A. Hamrick. No. 989,252; Apr. 11; Sp. p. 2030; Gaz. vol. 165; p. 347.
Tantalus-stand. G. D. Heriot. No. 993,166; May 23; Sp. p. 5014; Gaz. vol. 166; p. 905.
Tap and die holder. L. H. Rogers. No. 991,543; May 9; Sp. p. 1544; Gaz. vol. 166; p. 285.
Tap attachment, Barrel-. M. J. Zwosta and G. Soehngen. No. 984,460; Feb. 14; Sp. p. 2595; Gaz. vol. 163; p. 438.
Tap for dispensing liquid under pressure. G. L. Kennedy. No. 991,725; May 9; Sp. p. 1944; Gaz. vol. 166; p. 349.
Tap, Wood-. D. W. Edwards. No. 992,946; May 23; Sp. p. 4548; Gaz. vol. 166; p. 831.
Tap-wrench. O. Parpart. No. 994,477; June 6; Sp. p. 769; Gaz. vol. 167; p. 130.
Tapping attachment, Yielding. F. P. Miller. No. 991,630; May 9; Sp. p. 1724; Gaz. vol. 166; p. 317.
Tapping device. J. C. Roth, O. C. Hartfield, and E. M. Hill. No. 983,259; Jan. 31; Sp. p. 6744; Gaz. vol. 162; p. 1169.
Tapping device. E. M. Hill, J. C. Roth, and O. C. Hartfield. No. 984,763; Feb. 21; Sp. p. 3292; Gaz. vol. 163; p. 580.
Tapping device, Liquor-. J. F. Ferry. No. 1,004,638; Oct. 3; Sp. p. 190; Gaz. vol. 171; p. 34.
Tapping-machine. N. Marshall. No. 981,665; Jan. 17; Sp. p. 3328; Gaz. vol. 162; p. 565.
Tapping-machine. O. A. Smith. No. 986,094; Mar. 7; Sp. p. 722; Gaz. vol. 164; p. 116.
Tapping machine, Pipe-. P. Mueller and A. C. Schuermann. No. 990,580; Apr. 25; Sp. p. 4971; Gaz. vol. 165; p. 867.
Tapping-wrench. R. Wolf and J. B. Goetz. No. 1,012,783; Dec. 26; Sp. p. 5301; Gaz. vol. 173; p. 944.
Tape attachment. F. J. Bowers. No. 1,006,056; Oct. 17; Sp. p. 3254; Gaz. vol. 171; p. 583.
Tape, Hanger-. A. H. Caldwell. No. 982,574; Jan. 24; Sp. p. 5276; Gaz vol. 162; p. 910.
Tape holding and displaying box. J. A. Adamson. No. 985,564; Feb. 28; Sp. p. 5018; Gaz. vol. 163; p. 888.
Tape, Insectifugal. C. Ellis. No. 1,005,180; Oct. 10; Sp. p. 1300; Gaz. vol. 171; p. 242.
Taper-gage. J. E. Ball. No. 996,901; July 4; Sp. p. 628; Gaz. vol. 168; p. 102.
Taping-machine. L. Clark. No. 986,690; Mar. 14; Sp. p. 1980; Gaz. vol. 164; p. 348.
Taplet or crossover and receptacle, Combined. J. S. Stewart. No. 998,810; July 25; Sp. p. 4829; Gaz. vol. 168; p. 872.
Tar macadam, Machine for mixing. E. W. Brackenbury. No. 1,010,114; Nov. 28; Sp. p. 5441; Gaz. vol. 172; p. 975.
Tar, Treatment of acid. W. O. T. Van Tienen. No. 1,000,646; Aug. 15; Sp. p. 3090; Gaz. vol. 169; p. 562.
Target. J. T. Dickman. No. 1,003,588; Sept. 19; Sp. p. 3060; Gaz. vol. 170; p. 552.

Alphabetical list of inventions—Continued.

Target apparatus. C. W. Harper. No. 996,712; July 4; Sp. p. 234; Gaz. vol. 168; p. 40.
Target-carrier. A. A. Stillman. No. 1,000,639; Aug. 15; Sp. p. 3087; Gaz. vol. 169; p. 559.
Target-finder, Illuminated. H. J. Hegwer. No. 995,867; June 20; Sp. p. 3887; Gaz. vol. 167; p. 675.
Target for rifle-firing practice. C. W. Dimick. No. 994,986; June 13; Sp. p. 1966; Gaz. vol. 167; p. 344.
Target-practice apparatus. H. A. Stebbins and A. A. Adams. No. 1,007,154; Oct. 31; Sp. p. 5737; Gaz. vol. 171; p. 1051.
Target, Self-registering. M. S. Ellis. No. 1,005,008; Oct. 3; Sp. p. 963; Gaz. vol. 171; p. 160.
Target-spotter. R. S. Henry. No. 992,716; May 16; Sp. p. 4026; Gaz. vol. 166; p. 719.
Target-throwing trap. E. D. Fulford. No. 986,815; Mar. 14; Sp. p. 2249; Gaz. vol. 164; p. 390.
Target-trap. N. W. Benner. No. 985,651; Feb. 28; Sp. p. 5189; Gaz. vol. 163; p. 918.
Target-trap. W. S. Bowers. No. 993,501; May 30; Sp. p. 5736; Gaz. vol. 166; p. 1048.
Target-trap. H. I. Davis. No. 1,012,526; Dec. 19; Sp. p. 4710; Gaz. vol. 173; p. 809.
Target-trap-operating mechanism. H. J. Butler. No. 990,333; Apr. 25; Sp. p. 4407; Gaz. vol. 165; p. 780.
Tattooing device, Animal-. W. Brough. No. 992,732; May 16; Sp. p. 4061; Gaz. vol. 166; p. 725.
Tax-receipt form. C. B. Mahone. No. 999,818; Aug. 8; Sp. p. 1234; Gaz. vol. 169; p. 242.
Taximeter. W. G. Bruhn. No. 993,645; May 30; Sp. p. 6044; Gaz. vol. 166; p. 1098.
Taximeter. J. G. MacPherson. No. 1,000,275; Aug. 8; Sp. p. 2238; Gaz. vol. 169; p. 398.
Taximeter. J. G. MacPherson. No. 1,000,276; Aug. 8; Sp. p. 2243; Gaz. vol. 169; p. 399.
Taximeter control. J. D. Sulsona. No. 1,002,778; Sept. 5; Sp. p. 1327; Gaz. vol. 170; p. 200.
Taximeter or fare-indicator for hired vehicles. P. Richert. No. 986,758; Mar. 14; Sp. p. 2125; Gaz. vol. 164; p. 371.
Tea and coffee maker. C. B. Crofford. No. 1,000,326; Aug. 8; Sp. p. 2343; Gaz. vol. 169; p. 415.
Tea and coffee pot. A. H. Spitzig. No. 1,006,886; Oct. 24; Sp. p. 5156; Gaz. vol. 171; p. 906.
Tea-blending machinery. C. A. Scott. No. 993,557; May 30; Sp. p. 5858; Gaz. vol. 166; p. 1068.
Tea-infuser. E. N. Bachelder. No. 996,305; June 27; Sp. p. 4865; Gaz. vol. 167; p. 858.
Tea-kettle handle. A. R. Pritchard and T. L. Ferrall. No. 1,004,683; Oct. 3; Sp. p. 288; Gaz. vol. 171; p. 48.
Tea-leaf-rolling machine. S. C. Davidson. No. 980,213; Jan. 3; Sp. p. 72; Gaz. vol. 162; p. 14.
Tea or coffee pot. J. C. Hollands. No. 985,176; Feb. 28; Sp. p. 4153; Gaz. vol. 163; p. 755.
Tea or other goods, Machine for packing. E. C. Lovell. No. 998,362; July 18; Sp. p. 3853; Gaz. vol. 168; p. 684.
Teapot, coffee-pot, and other infusing vessel. L. L. Grimwade. No. 986,458; Mar. 14; Sp. p. 1490; Gaz. vol. 164; p. 268.
Teaching aviation and testing aeroplanes, Means for. W. F. Mangels. No. 1,007,467; Oct. 31; Sp. p. 6398; Gaz. vol. 171; p. 1162.
Teaching to read, Appliance to be used in. M. H. Monteith. No. 1,010,782; Dec. 5; Sp. p. 859; Gaz. vol. 173; p. 134.
Teaching type-writing, Device for. H. E. Feakes. No. 1,008,591; Nov. 14; Sp. p. 2183; Gaz. vol. 172; p. 372.
Team-protector. R. E. Flenniken. No. 1,009,398; Nov. 21; Sp. p. 3982; Gaz. vol. 172; p. 688.
Teat-cup. D. Klein. No. 980,968; Jan. 10; Sp. p. 1811; Gaz vol. 162; p. 302.
Teat-cup. D. Klein and D. Brown. No. 1,004,279; Sept. 26; Sp. p. 4623; Gaz. vol. 170; p. 817.
Teat for baby soothers and pacifiers. F. Schutze. No. 997,331; July 11; Sp. p. 1552; Gaz. vol. 168; p. 282.
Teeth, Backing for artificial. R. B. Power. No. 1,004,302; Sept. 26; Sp. p. 4668; Gaz. vol. 170; p. 826.
Teeth, Backing-forming instrument for. J. S. McDonald. No. 995,701; June 20; Sp. p. 3499; Gaz. vol. 167; p. 617.
Teeth, Device for retaining fillings in. W. F. Baber. No. 990,621; Apr. 25; Sp. p. 5056; Gaz. vol. 165; p. 881.
Teeth, Mold for making artificial. T. D. Moore. No. 1,000,187; Aug. 8; Sp. p. 2065; Gaz. vol. 169; p. 368.
Teeth, Removable bridge for. H. A. Gollobin and N. A. Bornstein. No. 1,008,028; Nov. 7; Sp. p. 824; Gaz. vol. 172; p. 131.
Teething device. J. S. Bridges. No. 1,002,364; Sept. 5; Sp. p. 435; Gaz. vol. 170; p. 61.
Telegraph and telephone system. O. T. Lademann. No. 987,582; Mar. 21; Sp. p. 3829; Gaz. vol. 164; p. 682.
Telegraph and telephone system, Composite. C. L. Bopp. No. 1,002,803; Sept. 5; Sp. p. 1372; Gaz. vol. 170; p. 209.
Telegraph apparatus, Cable-. I. Kitsee. No. 986,396; Mar. 7; Sp. p. 1350; Gaz. vol. 164; p. 217.
Telegraph apparatus, Fire-alarm. N. H. Suren. No. 989,516; Apr. 11; Sp. p. 2579; Gaz. vol. 165; p. 437.
Telegraph apparatus, Wireless-. D. M. Moore. No. 1,010,669; Dec. 5; Sp. p. 588; Gaz. vol. 173; p. 94.
Telegraph-code system. S. M. Wilson. No. 997,890; July 11; Sp. p. 2760; Gaz. vol. 168; p. 473.
Telegraph-key. C. Bolick. No. 987,107; Mar. 21; Sp. p. 2808; Gaz. vol. 164; p. 517.
Telegraph-key. G. S. Perry. No. 1,012,906; Dec. 26; Sp. p. 5582; Gaz. vol. 173; p. 985.
Telegraph-key closer, Automatic. D. E. Motz and F. B. Hatfield. No. 1,002,735; Sept. 5; Sp. p. 1246; Gaz. vol. 170; p. 185.
Telegraph-pole. J. H. Norton. No. 982,188; Jan. 17; Sp. p. 4448; Gaz. vol. 162; p. 745.
Telegraph-poles, Means for setting. J. B. Harner. No. 1,010,903; Dec. 5; Sp. p. 1119; Gaz. vol. 173; p. 176.
Telegraph, Printing-. C. K. Jones. No. 982,274; Jan. 24; Sp. p. 4637; Gaz. vol. 162; p. 805.
Telegraph, Printing-. C. K. Jones. No. 982,275; Jan. 24; Sp. p. 4648; Gaz. vol. 162; p. 806.
Telegraph, Printing-. C. K. Jones. No. 982,276; Jan. 24; Sp. p. 4659; Gaz. vol. 162; p. 807.
Telegraph, Printing-. J. J. Vermeer. No. 985,233; Feb. 28; Sp. p. 4283; Gaz. vol. 163; p. 775.
Telegraph, Printing-. G. S. Tiffany. No. 991,672; May 9; Sp. p. 1830; Gaz. vol. 166; p. 332.
Telegraph, Printing-. C. L. Krum. No. 1,004,038; Sept. 26; Sp. p. 4076; Gaz. vol. 170; p. 734.
Telegraph, Printing-. A. S. McCaskey. No. 1,005,862; Oct. 17; Sp. p. 2831; Gaz. vol. 171; p. 515.
Telegraph, Printing-. M. S. Ayau. No. 1,006,344; Oct. 17; Sp. p. 3913; Gaz. vol. 171; p. 684.
Telegraph recorder, Ship's-. E. A. Henkle. No. 991,504; May 9; Sp. p. 1440; Gaz. vol. 166; p. 271.
Telegraph recorder, Ship's-. H. Wilson and O. R. Oehmler. No. 991,585; May 9; Sp. p. 1631; Gaz. vol. 166; p. 301.
Telegraph-register, Ink-writing. B. Hurd. No. 1,000,601; Aug. 15; Sp. p. 2988; Gaz. vol. 169; p. 546.
Telegraph-relay. Z. M. Miller. No. 989,792; Apr. 18; Sp. p. 3227; Gaz. vol. 165; p. 564.
Telegraph, Signal-. A. Goldstein. No. 981,997; Jan. 17; Sp. p. 4091; Gaz. vol. 162; p. 682.
Telegraph, signal, and telephone system, Combined. W. A. Froeckman. No. 1,004,767; Oct. 3; Sp. p. 474; Gaz. vol. 171; p. 78.
Telegraph signals, Apparatus for determining the direction of space-. O. C. Roos. No. 984,108; Feb. 14; Sp. p. 1859; Gaz. vol. 163; p. 319.
Telegraph-sounder. H. T. Johnson. No. 983,905; Feb. 14; Sp. p. 1424; Gaz. vol. 163; p. 252.
Telegraph system. I. Kitsee. No. 983,240; Jan. 31; Sp. p. 6694; Gaz. vol. 162; p. 1162.
Telegraph system. M. J. Carpenter. No. 1,007,527; Oct. 31; Sp. p. 6541; Gaz. vol. 171; p. 1183.
Telegraph system, Cable-. I. Kitsee. No. 988,878; Apr. 4; Sp. p. 1237; Gaz. vol. 165; p. 198.
Telegraph system, Combined wire and wireless. M. B. Johnson. No. 996,089; June 27; Sp. p. 4342; Gaz. vol. 167; p. 786.
Telegraph system, Printing-. A. S. McCaskey. No. 1,006,112; Oct. 17; Sp. p. 3369; Gaz. vol. 171; p. 601.
Telegraph systems, Transmitting apparatus for. A. C. Crehore. No. 1,010,413; Dec. 5; Sp. p. 15; Gaz. vol. 173; p. 5.
Telegraph-transmitter. B. P. Hayes. No. 990,485; Apr. 25; Sp. p. 4748; Gaz. vol. 165; p. 835.
Telegraph-transmitter. B. P. Hayes. No. 994,079; May 30; Sp. p. 6943; Gaz. vol. 166; p. 1246.
Telegraph-transmitter case. B. P. Hayes. No. 990,484; Apr. 25; Sp. p. 4746; Gaz. vol. 165; p. 834.
Telegraphs, Recording mechanism for engine-room. O. Deam. No. 998,077; July 18; Sp. p. 3206; Gaz. vol. 168; p. 581.
Telegraphic apparatus, Wireless. M. A. Parisano. No. 992,042; May 9; Sp. p. 2556; Gaz. vol. 166; p. 454.
Telegraphic-code concentrator. C. W. McDonald. No. 986,400; Mar. 7; Sp. p. 1358; Gaz. vol. 164; p. 218.
Telegraphic dot-transmitter. H. H. Smith. No. 982,638; Jan. 24; Sp. p. 5397; Gaz. vol. 162; p. 931.
Telegraphic instrument. G. A. Zundel. No. 1,000,314; Aug. 8; Sp. p. 2317; Gaz. vol. 169; p. 411.
Telegraphic receiving organism. I. Kitsee. No. 985,680; Feb. 28; Sp. p. 5251; Gaz. vol. 163; p. 927.
Telegraphic receiving organism. I. Kitsee. No. 985,760; Feb. 28; Sp. p. 5449; Gaz. vol. 163; p. 956.
Telegraphic recording apparatus. T. M. De Bingham. No. 997,651; July 11; Sp. p. 2203; Gaz. vol. 168; p. 390.
Telegraphic relay. I. Kitsee. No. 991,325; May 2; Sp. p. 1076; Gaz. vol. 166; p. 179.
Telegraphic-tape perforator. G. A. Arnold. No. 986,427; Mar. 14; Sp. p. 1423; Gaz. vol. 164; p. 257.
Telegraphic translator. A. O. Urban. No. 1,003,074; Sept. 12; Sp. p. 1955; Gaz. vol. 170; p. 338.
Telegraphic transmitter. G. A. Cardwell. No. 987,956; Mar. 28; Sp. p. 4705; Gaz. vol. 164; p. 841.
Telegraphy. P. B. Delany. No. 981,845; Jan. 17; Sp. p. 3722; Gaz. vol. 162; p. 630.
Telegraphy. B. P. Hayes. No. 987,720; Mar. 28; Sp. p. 4149; Gaz. vol. 164; p. 758.
Telegraphy. L. M. Potts. No. 988,811; Apr. 4; Sp. p. 1109; Gaz. vol. 165; p. 177.
Telegraphy. I. Kitsee. No. 988,879; Apr. 4; Sp. p. 1240; Gaz. vol. 165; p. 198.
Telegraphy. P. B. Delany. No. 989,576; Apr. 18; Sp. p. 2747; Gaz. vol. 165; p. 490.

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Telegraphy. P. B. Delany. No. 989,577; Apr. 18; Sp. p. 2748; Gaz. vol. 165; p. 490.
Telegraphy. I. Kitsee. No. 991,324; May 2; Sp. p. 1071; Gaz. vol. 166; p. 179.
Telegraphy. J. A. Esslinger. No. 993,442; May 30; Sp. p. 5602; Gaz. vol. 166; p. 1028.
Telegraphy. I. Kitsee. No. 1,005,715; Oct. 10; Sp. p. 2511; Gaz. vol. 171; p. 431.
Telegraphy. P. B. Delany. No. 1,011,925; Dec. 19; Sp. p. 3441; Gaz. vol. 173; p. 602.
Telegraphy. M. O. Anthony. No. 1,012,231; Dec. 19; Sp. p. 4134; Gaz. vol. 173; p. 709.
Telegraphy and telephony, Aerial for wireless. W. E. D. Stokes, Jr., and G. W. Davis. No. 1,001,227; Aug. 22; Sp. p. 4364; Gaz. vol. 169; p. 794.
Telegraphy and telephony, Receiving-circuit for wireless. W. E. D. Stokes, Jr., and G. W. Davis. No. 1,001,228; Aug. 22; Sp. p. 4365; Gaz. vol. 169; p. 795.
Telegraphy, Illustrative. N. S. Amstutz. No. 1,011,141; Dec. 12; Sp. p. 1663; Gaz. vol. 173; p. 293.
Telegraphy, Multiplex. R. A. Fessenden. No. 981,406; Jan. 10; Sp. p. 2829; Gaz. vol. 162; p. 456.
Telegraphy, Quadruplex. I. Kitsee. No. 987,630; Mar. 21; Sp. p. 3919; Gaz. vol. 164; p. 698.
Telegraphy, Quadruplex printing. I. Kitsee. No. 987,631; Mar. 21; Sp. p. 3921; Gaz. vol. 164; p. 698.
Telegraphy, Receiver for wireless. R. H. Rendahl. No. 994,426; June 6; Sp. p. 677; Gaz. vol. 167; p. 115.
Telegraphy, Reflector for wireless. R. D'Antonio. No. 986,806; Mar. 14; Sp. p. 2226; Gaz. vol. 164; p. 386.
Telegraphy, signals, and similar uses, Telescopic mast for wireless-. A. F. Juillac. No. 995,254; June 13; Sp. p. 2502; Gaz. vol. 167; p. 433.
Telegraphy, Space. J. S. Stone. No. 986,651; Mar. 14; Sp. p. 1904; Gaz. vol. 164; p. 336.
Telegraphy, Space. L. De Forest. No. 995,339; June 13; Sp. p. 2688; Gaz. vol. 167; p. 461.
Telegraphy, Space. G. S. Piggott. No. 1,006,786; Oct. 24; Sp. p. 4897; Gaz. vol. 171; p. 870.
Telegraphy, System of. R. L. Dean. No. 982,659; Jan. 24; Sp. p. 5439; Gaz. vol. 162; p. 939.
Telegraphy, Transmitting apparatus for wireless. P. O. Pedersen. No. 986,405; Mar. 7; Sp. p. 1365; Gaz. vol. 164; p. 220.
Telegraphy, Transmitting apparatus for wireless. G. Marconi. No. 997,308; July 11; Sp. p. 1508; Gaz. vol. 168; p. 274.
Telegraphy, Wave-detector for wireless. W. Schloemilch and P. F. Pichon. No. 1,003,210; Sept. 12; Sp. p. 2263; Gaz. vol. 170; p. 389.
Telegraphy, Wave-detector for wireless. W. Schloemilch and P. F. Pichon. No. 1,003,374; Sept. 12; Sp. p. 2592; Gaz. vol. 170; p. 446.
Telegraphy, Wave-detector for wireless. W. Schloemilch and P. F. Pichon. No. 1,003,375; Sept. 12; Sp. p. 2593; Gaz. vol. 170; p. 446.
Telegraphy, Wireless. J. F. McElroy. No. 992,791; May 23; Sp. p. 4191; Gaz. vol. 166; p. 774.
Telegraphy, Wireless. C. M. Green. No. 996,580; June 27; Sp. p. 5444; Gaz. vol. 167; p. 952.
Telegraphy, Wireless. J. Härdén. No. 1,011,777; Dec. 12; Sp. p. 3090; Gaz. vol. 173; p. 518.
Telemeter. A. König. No. 1,000,609; Aug. 15; Sp. p. 3011; Gaz. vol. 169; p. 549.
Telemotor. R. Janney. No. 985,899; Mar. 7; Sp. p. 300; Gaz. vol. 164; p. 49.
Telemotor. R. Janney. No. 986,065; Mar. 7; Sp. p. 662; Gaz. vol. 164; p. 106.
Telephone. W. J. C. Kenyon. No. 987,304; Mar. 21; Sp. p. 3277; Gaz. vol. 164; p. 589.
Telephone. W. C. Lockwood. No. 989,856; Apr. 18; Sp. p. 3359; Gaz. vol. 165; p. 586.
Telephone. A. G. Remhilt. No. 1,001,685; Aug. 29; Sp. p. 5308; Gaz. vol. 169; p. 980.
Telephone and electric lamp, Combined. F. J. Kerbel. No. 996,770; July 4; Sp. p. 342; Gaz. vol. 168; p. 58.
Telephone and like box. W. H. and S. Colwill. No. 996,907; July 4; Sp. p. 643; Gaz. vol. 168; p. 104.
Telephone and other circuits, Line-tapping device for. C. B. Forrest. No. 1,011,600; Dec. 12; Sp. p. 2730; Gaz. vol. 173; p. 458.
Telephone and telegraph system. H. O. Rugh. No. 981,120; Jan. 10; Sp. p. 2159; Gaz. vol. 162; p. 356.
Telephone and telegraph system, Composite. O. M. Leich. No. 999,505; Aug. 1; Sp. p. 613; Gaz. vol. 169; p. 106.
Telephone and telegraph wires, Guard for. C. J. Elliott. No. 1,005,179; Oct. 10; Sp. p. 1299; Gaz. vol. 171; p. 242.
Telephone apparatus, Coin-controlled. D. P. Meade. No. 985,616; Feb. 28; Sp. p. 5124; Gaz. vol. 163; p. 906.
Telephone apparatus, Method of and means for connecting. E. A. Gray. No. 1,002,388; Sept. 5; Sp. p. 486; Gaz. vol. 170; p. 68.
Telephone apparatus, Subscriber's. H. P. Clausen. No. 1,010,478; Dec. 5; Sp. p. 176; Gaz. vol. 173; p. 29.
Telephone attachment. C. L. Fields. No. 987,563; Mar. 21; Sp. p. 3775; Gaz. vol. 164; p. 674.
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Telephone attachment. R. E. Southwick. No. 1,002,936; Sept. 12; Sp. p. 1698; Gaz. vol. 170; p. 294.
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Telephone-call distinguisher. K. W. Gale. No. 990,972; May 2; Sp. p. 306; Gaz. vol. 166; p. 53.
Telephone-calls, System for registering. E. L. Buxbaum. No. 989,763; Apr. 18; Sp. p. 3148; Gaz. vol. 165; p. 553.
Telephone-casing. W. W. Dean. No. 1,008,122; Nov. 7; Sp. p. 1018; Gaz. vol. 172; p. 165.
Telephone-circuit reinforcer. E. F. W. Alexanderson. No. 996,391; June 27; Sp. p. 5052; Gaz. vol. 167; p. 890.
Telephone circuits and switching mechanism, Secret-service-. A. K. Adriano. No. 986,889; Mar. 14; Sp. p. 2412; Gaz. vol. 164; p. 417.
Telephone-circuits, Call system for. J. J. Graf. No. 999,367; Aug. 1; Sp. p. 349; Gaz. vol. 169; p. 61.
Telephone current-selector. E. Garretson. No. 985,024; Feb. 21; Sp. p. 3783; Gaz. vol. 163; p. 668.
Telephone desk attachment. C. W. Cochran. No. 982,795; Jan. 31; Sp. p. 5748; Gaz. vol. 162; p. 1013.
Telephone desk set. P. C. Burns. No. 1,011,405; Dec. 12; Sp. p. 2255; Gaz. vol. 173; p. 385.
Telephone-dials, Sign-holder for. R. H. Gerard. No. 1,000,794; Aug. 15; Sp. p. 3412; Gaz. vol. 169; p. 613.
Telephone-exchange. N. E. Norstrom. No. 980,883; Jan. 3; Sp. p. 1527; Gaz. vol. 162; p. 242.
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Telephone-exchange system. R. H. Manson. No. 998,705; July 25; Sp. p. 4579; Gaz. vol. 168; p. 834.
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Telephone-exchanges, Wiring system for automatic. F. R. McBerty. No. 1,000,614; Aug. 15; Sp. p. 3027; Gaz. vol. 169; p. 551.
Telephone installation. A. Pictet. No. 1,009,689; Nov. 21; Sp. p. 4550; Gaz. vol. 172; p. 784.
Telephone instrument. W. Aitken. No. 985,120; Feb. 28; Sp. p. 3987; Gaz. vol. 163; p. 735.
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Telephone instrument. W. F. Taylor and V. Durbin. No. 1,010,531; Dec. 5; Sp. p. 293; Gaz. vol. 173; p. 46.
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Telephone-lines and the like, Automatic cut-out for aerial. L. W. Carroll. No. 996,701; July 4; Sp. p. 211; Gaz. vol. 168; p. 36.
Telephone lock and call-register. E. L. Buxbaum. No. 989,761; Apr. 18; Sp. p. 3141; Gaz. vol. 165; p. 552.
Telephone-locking device. W. A. Soles. No. 986,952; Mar. 14; Sp. p. 2530; Gaz. vol. 164; p. 437.
Telephone, Magnetic. W. W. Dean. No. 998,161; July 18; Sp. p. 3380; Gaz. vol. 168; p. 610.
Telephone memorandum device. W. H. Walker. No. 990,318; Apr. 25; Sp. p. 4374; Gaz. vol. 165; p. 774.
Telephone-messages, Time-signal for. T. W. Gardner. No. 997,250; July 4; Sp. p. 1367; Gaz. vol. 168; p. 224.
Telephone meter system. G. Deakin. No. 990,638; Apr. 25; Sp. p. 5083; Gaz. vol. 165; p. 886.
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Telephone-muffler. F. W. Cook. No. 990,527; Apr. 25; Sp. p. 4866; Gaz. vol. 165; p. 849.
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Telephone police-call, Village. G. W. Herrick. No. 980,256; Jan. 3; Sp. p. 146; Gaz. vol. 162; p. 29.
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Telephone-receiver shell. J. Halldow. No. 988,706; Apr. 4; Sp. p. 906; Gaz. vol. 165; p. 143.
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Telephone-receivers and the like, Holder for. S. K. Rothschild. No. 983,570; Feb. 7; Sp. p. 692; Gaz. vol. 163; p. 107.
Telephone-receivers, Automatic adjustable holder for. S. O. Lancaster. No. 984,679; Feb. 21; Sp. p. 3097; Gaz. vol. 163; p. 549.
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Telephone relay and system. E. F. W. Alexanderson. No. 996,445; June 27; Sp. p. 5184; Gaz. vol. 167; p. 908.
Telephone-rent-collecting device. H. R. C. Spencer. No. 980,690; Jan. 3; Sp. p. 1115; Gaz. vol. 162; p. 178.
Telephone-repeater. W. Anderson. No. 997,594; July 11; Sp. p. 2061; Gaz. vol. 168; p. 368.
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Telephone selective-signaling ringer. H. L. Johnson. No. 1,001,959; Aug. 29; Sp. p. 5925; Gaz. vol. 169; p. 1073.
Telephone selector or ringing device, Automatic. R. R. Hobbs. No. 983,899; Feb. 14; Sp. p. 1412; Gaz. vol. 163; p. 250.
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Telephone-signal. C. L. Chisholm. No. 986,267; Mar. 7; Sp. p. 1070; Gaz. vol. 164; p. 171.
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Telephone-support. C. E. Flynn. No. 993,975; May 30; Sp. p. 6726; Gaz. vol. 166; p. 1210.
Telephone-support. K. B. Miller and W. Kaisling. No. 995,704; June 20; Sp. p. 3505; Gaz. vol. 167; p. 618.
Telephone-support, Detachable. B. W. Sweet. No. 1,002,783; Sept. 5; Sp. p. 1334; Gaz. vol. 170; p. 202.
Telephone switch apparatus. S. A. Koltonski. No. 982,213; Jan. 17; Sp. p. 4501; Gaz. vol. 162; p. 755.
Telephone switchboard-circuit and exchange apparatus. H. J. Roberts. No. 1,000,123; Aug. 8; Sp. p. 1925; Gaz. vol. 169; p. 347.
Telephone-switching-apparatus indicator. H. W. Dunbar. No. 1,012,066; Dec. 19; Sp. p. 3766; Gaz. vol. 173; p. 652.
Telephone system. W. W. Dean. No. 980,613; Jan. 3; Sp. p. 938; Gaz. vol. 162; p. 152.
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Telephony. G. C. Cummings. No. 997,756; July 11; Sp. p. 2450; Gaz. vol. 168; p. 427.
Telephony and telegraphy, Multiplex. G. O. Squier. No. 980,356; Jan. 3; Sp. p. 349; Gaz. vol. 162; p. 63.
Telephony and telegraphy, Multiplex. G. O. Squier. No. 980,357; Jan. 3; Sp. p. 360; Gaz. vol. 162; p. 64.
Telephony and telegraphy, Multiplex. G. O. Squier. No. 980,358; Jan. 3; Sp. p. 355; Gaz. vol. 162; p. 64.
Telephony and telegraphy, Multiplex. G. O. Squier. No. 980,359; Jan. 3; Sp. p. 364; Gaz. vol. 162; p. 64.
Telephony apparatus, Wireless-. V. Colin and M. Jeance. No. 1,010,593; Dec. 5; Sp. p. 427; Gaz. vol. 173; p. 68.
Telephony, Radio-. G. Seibt. No. 1,012,456; Dec. 19; Sp. p. 4576; Gaz. vol. 173; p. 784.
Telephony, Space. L. De Forest. No. 1,006,635; Oct. 24; Sp. p. 4591; Gaz. vol. 171; p. 818.
Telephony, Space. L. De Forest. No. 1,006,636; Oct. 24; Sp. p. 4593; Gaz. vol. 171; p. 818.
Telescope. C. Möller. No. 988,279; Mar. 28; Sp. p. 5349; Gaz. vol. 164; p. 947.
Telescope. F. B. Saegmüller. No. 1,012,715; Dec. 26; Sp. p. 5136; Gaz. vol. 173; p. 921.
Telescope, Prism-. H. Korrodi and O. Grauhering. No. 988,642; Apr. 4; Sp. p. 759; Gaz. vol. 165; p. 121.
Telescope, Sighting-. R. Straubel. No. 1,006,699; Oct. 24; Sp. p. 4707; Gaz. vol. 171; p. 838.
Telescope, Sighting-. G. M. Saegmuller and A. Grebe. No. 1,011,248; Dec. 12; Sp. p. 1917; Gaz. vol. 173; p. 331.
Telescope-sights, Reversible mounts for. W. Bennett. No. 1,000,145; Aug. 8; Sp. p. 1969; Gaz. vol. 169; p. 354.
Telescope, Single-field double-sighting. G. N. Saegmuller. No. 991,652; May 9; Sp. p. 1772; Gaz. vol. 166; p. 324.
Tellurian. H. L. Bretsch. No. 1,010,226; Nov. 28; Sp. p. 5653; Gaz. vol. 172; p. 1012.
Temperature-alarm. A. Goldstein. No. 981,996; Jan. 17; Sp. p. 4090; Gaz. vol. 162; p. 682.
Temperature-compensating device. W. H. Bristol. No. 1,000,146; Aug. 8; Sp. p. 1970; Gaz. vol. 169; p. 354.
Temperature-controlling apparatus. A. J. Chase. No. 1,005,599; Oct. 10; Sp. p. 2274; Gaz. vol. 171; p. 391.
Temperature-equalizing method and apparatus. H. B. Gale. No. 983,548; Feb. 7; Sp. p. 633; Gaz. vol. 163; p. 99.
Temperature indicator or alarm. M. L. Huberman. No. 993,168; May 23; Sp. p. 5017; Gaz. vol. 166; p. 906.
Temperature-regulating device. W. W. Curtis. No. 1,000,720; Aug. 15; Sp. p. 3245; Gaz. vol. 169; p. 587.
Temperature-regulating ventilator, Portable. R. E. Boor-aem. No. 1,000,366; Aug. 15; Sp. p. 2462; Gaz. vol. 169; p. 460.
Temperature-regulator. W. M. Fulton. No. 987,712; Mar. 28; Sp. p. 4128; Gaz. vol. 164; p. 756.
Temperature-regulator. A. N. Ozias. No. 998,117; July 18; Sp. p. 3306; Gaz. vol. 168; p. 595.
Temperatures, Instrument for high. C. Siebert and A. Kühn. No. 1,005,339; Oct. 10; Sp. p. 1685; Gaz. vol. 171; p. 300.
Tempering-machine, Time. J. Retallack. No. 1,004,591; Oct. 3; Sp. p. 87; Gaz. vol. 171; p. 16.
Tempering-tank. B. R. Benjamin. No. 993,497; May 30; Sp. p. 5729; Gaz. vol. 166; p. 1046.
Tennis nets or the like, Support for lawn-. G. Lane. No. 1,000,682; Aug. 15; Sp. p. 3167; Gaz. vol. 169; p. 574.
Tenon-joint fastener. J. S. Graham. No. 1,001,265; Aug. 22; Sp. p. 4435; Gaz. vol. 169; p. 807.
Tenoning-machine. S. N. House. No. 1,005,974; Oct. 17; Sp. p. 3090; Gaz. vol. 171; p. 555
Tenoning-machine, Hand. H. O. Taylor. No. 991,668; May 9; Sp. p. 1821; Gaz. vol. 166; p. 330.
Tenpin-spotting device. H. J. Martin. No. 1,000,184; Aug. 8; Sp. p. 2060; Gaz. vol. 169; p. 367.
Tension-adjusting coupling. H. L., A. E., and H. O. Short. No. 1,002,001; Aug. 29; Sp. p. 6006; Gaz. vol. 169; p. 1087.
Tension device. J. O. McKean. No. 1,007,787; Nov. 7; Sp. p. 313; Gaz. vol. 172; p. 49.
Tension device. J. O. McKean. No. 1,009,164; Nov. 21; Sp. p. 3402; Gaz. vol. 172; p. 602.
Tension device. X. Migliora and F. Rolker. No. 1,011,986; Dec. 19; Sp. p. 3571; Gaz. vol. 173; p. 624.
Tension device, Automatic. L. L. Almond. No. 1,007,837; Nov. 7; Sp. p. 441; Gaz. vol. 172; p. 66.
Tension mechanism. E. G. Robeson. No. 993,550; May 30; Sp. p. 5845; Gaz. vol. 166; p. 1065.
Tension regulator, Spring-. J. Raber. No. 1,005,780; Oct. 10; Sp. p. 2642; Gaz. vol. 171; p. 455.
Tension-releasing device. A. Eppler. No. 1,011,177; Dec. 12; Sp. p. 1754; Gaz. vol. 173; p. 306.
Tensioning device. C. Corley and W. E. Williams. No. 988,444; Apr. 4; Sp. p. 334; Gaz. vol. 165; p. 54.
Tensioning means. C. L. David. No. 993,963; May 30; Sp. p. 6704; Gaz. vol. 166; p. 1206.
Tent. C. H. Stonebridge. No. 988,400; Apr. 4; Sp. p. 238; Gaz. vol. 165; p. 39.
Tent. C. H. Stonebridge. No. 988,401; Apr. 4; Sp. p. 242; Gaz. vol. 165; p. 39.
Tent. R. W. Davis. No. 988,446; Apr. 4; Sp. p. 337; Gaz. vol. 165; p. 54.
Tent. H. Paul. No. 992,383; May 16; Sp. p. 3359; Gaz. vol. 166; p. 604.
Tent construction. A. Bahan. No. 985,243; Feb. 28; Sp. p. 4308; Gaz. vol. 163; p. 779.
Tent, Cot-. E. C. Rodwick. No. 1,003,801; Sept. 19; Sp. p. 3514; Gaz. vol. 170; p. 625.
Tent, Folding. H. G. Hergelroth. No. 1,008,331; Nov. 14; Sp. p. 1526; Gaz. vol. 172; p. 279.
Tent, Lambing-. F. W. Burch. No. 998,462; July 18; Sp. p. 4049; Gaz. vol. 168; p. 718.
Tent-pin, Anchoring. S. G. Gillespie. No. 1,008,323; Nov. 14; Sp. p. 1511; Gaz. vol. 172; p. 277.
Tent, Portable. F. R. Hill. No. 998,093; July 18; Sp. p. 3254; Gaz. vol. 168; p. 587.
Tent, Tourist's. W. R. Padley. No. 1,009,783; Nov. 28; Sp. p. 4766; Gaz. vol. 172; p. 863.
Tentering-machine feed-table. B. Parkinson. No. 1,008,193; Nov. 7; Sp. p. 1166; Gaz. vol. 172; p. 191.
Tentering-machine for drying and stretching woven fabrics. M. Day and A. F. Nott. No. 1,003,712; Sept. 19; Sp. p. 3335; Gaz. vol. 170; p. 597.
Terminal. C. E. Lundgren. No. 984,097; Feb. 14; Sp. p. 1841; Gaz. vol. 163; p. 316.
Terminal block for high-tension apparatus. T. Hubert. No. 1,001,035; Aug. 22; Sp. p. 3980; Gaz. vol. 169; p. 731.
Terminal block, Service. G. E. Palmer and W. E. McCoy. No. 993,098; May 23; Sp. p. 4874; Gaz. vol. 166; p. 884.
Terminal clamp. J. D. Robertson. No. 998,304; July 18; Sp. p. 3728; Gaz. vol. 168; p. 664.
Terminal clamp. J. D. Robertson. No. 998,551; July 18; Sp. p. 4221; Gaz. vol. 168; p. 748.
Terret, Harness-. B. Hanlon. No. 984,909; Feb. 21; Sp. p. 3567; Gaz. vol. 163; p. 630.
Test-indicator. G. W. Bowers. No. 1,001,121; Aug. 22; Sp. p. 4165; Gaz. vol. 169; p. 761.
Test-indicator. E. M. Erb. No. 1,006,924; Oct. 24; Sp. p. 5224; Gaz. vol. 171; p. 918.
Testing apparatus. W. S. Bickley. No. 987,609; Mar. 21; Sp. p. 3877; Gaz. vol. 164; p. 690.
Testing apparatus. W. S. Bickley. No. 987,667; Mar. 21; Sp. p. 4003; Gaz. vol. 164; p. 713.

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Testing apparatus. L. C. Christie. No. 998,591; July 18; Sp. p. 4320; Gaz. vol. 168; p. 763.
Testing apparatus. L. V. Lewis. No. 1,012,209; Dec. 19; Sp. p. 4087; Gaz. vol. 173; p. 701.
Testing instrument. H. W. Secor. No. 1,000,300; Aug. 8; Sp. p. 2296; Gaz. vol. 169; p. 407.
Testing-machine. S. H. McKnight. No. 993,700; May 30; Sp. p. 6187; Gaz. vol. 166; p. 1119.
Testing mechanism. J. F. O'Connor. No. 994,531; June 6; Sp. p. 891; Gaz. vol. 167; p. 148.
Tether. J. W. Brown. No. 982,469; Jan. 24; Sp. p. 5077; Gaz. vol. 162; p. 876.
Tether, Decoy-. J. H. Wattenburger. No. 985,084; Feb. 21; Sp. p. 3898; Gaz. vol. 163; p. 689.
Textile-board. F. J. Motz. No. 1,012,267; Dec. 19; Sp. p. 4205; Gaz. vol. 173; p. 721.
Textile-conditioning apparatus. I. E. Palmer. No. 1,001,435; Aug. 22; Sp. p. 4803; Gaz. vol. 169; p. 865.
Textile fabric, Reinforced. Z. S. Blackadar. No. 1,004,622; Oct. 3; Sp. p. 160; Gaz. vol. 171; p. 28.
Textile-machine double traverse. H. C. Sturdevant. No. 1,011,137; Dec. 5; Sp. p. 1618; Gaz. vol. 173; p. 256.
Textile machinery, Sliver-funnel for. J. Cooper. No. 984,195; Feb. 14; Sp. p. 2027; Gaz. vol. 163; p. 349.
Textile material, Conditioning. I. E. Palmer. No. 1,008,613; Nov. 14; Sp. p. 2238; Gaz. vol. 172; p. 381.
Textile material with fluids, Preparing and treating. J. C. Hebden and F. H. Daniell. No. 997,292; July 11; Sp. p. 1469; Gaz. vol. 168; p. 269.
Textile materials, Treating. R. Weiss. No. 986,332; Mar. 7; Sp. p. 1201; Gaz. vol. 164; p. 194.
Theater and stage construction. H. W. Bishop. No. 1,008,886; Nov. 14; Sp. p. 2807; Gaz. vol. 172; p. 472.
Theatrical apparatus. M. E. Moore. No. 1,007,790; Nov. 7; Sp. p. 318; Gaz. vol. 172; p. 50.
Theatrical appliance. C. F. Autenrieth and R. Chandler. No. 1,008,516; Nov. 14; Sp. p. 2010; Gaz. vol. 172; p. 344.
Therapeutic apparatus, Electromagnetic sound-wave. E. Bachelet. No. 1,001,236; Aug. 22; Sp. p. 4386; Gaz. vol. 169; p. 798.
Thermo-electric battery. J. Marschall. No. 985,426; Feb. 28; Sp. p. 4704; Gaz. vol. 163; p. 838.
Thermo-electric circuit-breaker. E. W. Leeper. No. 997,924; July 11; Sp. p. 2835; Gaz. vol. 168; p. 485.
Thermometer. A. Roesch. No. 996,679; July 4; Sp. p. 165; Gaz. vol. 168; p. 29.
Thermometer, Alarm-. A. Banhart. No. 992,145; May 16; Sp. p. 2784; Gaz. vol. 166; p. 520.
Thermometer and ventilator, Oven. H. C. Ferbrache. No. 995,854; June 20; Sp. p. 3859; Gaz. vol. 167; p. 670.
Thermometer-case. H. R. Smith. No. 1,008,746; Nov. 14; Sp. p. 2526; Gaz. vol. 172; p. 425.
Thermometer case, Clinical-. J. C. Jenkins. No. 984,003; Feb. 14; Sp. p. 1645; Gaz. vol. 163; p. 284.
Thermometer casing, Clinical-. R. F. Schneider. No. 987,749; Mar. 28; Sp. p. 4205; Gaz. vol. 164; p. 768.
Thermometer, Clinical. R. F. Schneider. No. 994,482; June 6; Sp. p. 776; Gaz. vol. 167; p. 132.
Thermometer, Electrical alarm-. R. Heddle. No. 983,443; Feb. 7; Sp. p. 390; Gaz. vol. 163; p. 64.
Thermometer holder, Individual-. E. T. Baker. No. 990,415; Apr. 25; Sp. p. 4607; Gaz. vol. 165; p. 810.
Thermometer, Oven-. A. E. Whittier. No. 1,003,387; Sept. 12; Sp. p. 2616; Gaz. vol. 170; p. 449.
Thermometer receptacle or case. J. Howe. No. 990,269; Apr. 25; Sp. p. 4247; Gaz. vol. 165; p. 758.
Thermometer utilizing tension of saturated vapors. J. B. Fournier. No. 997,188; July 4; Sp. p. 1243; Gaz. vol. 168; p. 202.
Thermometer utilizing tension of vapors. J. B. Fournier. No. 997,187; July 4; Sp. p. 1241; Gaz. vol. 168; p. 201.
Thermometers and the like, Receptacle or case for. H. J. Winn. No. 990,325; Apr. 25; Sp. p. 4390; Gaz. vol. 165; p. 777.
Thermostat. J. Boekel. No. 983,345; Feb. 7; Sp. p. 184; Gaz. vol. 163; p. 32.
Thermostat. H. Y. Norwood. No. 986,023; Mar. 7; Sp. p. 581; Gaz. vol. 164; p. 93.
Thermostat. L. L. Claxton. No. 986,801; Mar. 14; Sp. p. 2216; Gaz. vol. 164; p. 385.
Thermostat. M. J. Briggs. No. 992,541; May 16; Sp. p. 3691; Gaz. vol. 166; p. 660.
Thermostat. M. J. Briggs. No. 992,542; May 16; Sp. p. 3694; Gaz. vol. 166; p. 661.
Thermostat. I. F. and F. C. Beers. No. 1,000,661; Aug. 15; Sp. p. 3129; Gaz. vol. 169; p. 567.
Thermostat. A. S. Cubitt. No. 1,010,414; Dec. 5; Sp. p. 23; Gaz. vol. 173; p. 5.
Thermostat. J. D. Gould. No. 1,011,942; Dec. 19; Sp. p. 3477; Gaz. vol. 173; p. 608.
Thermostat. G. P. Wild. No. 1,012,952; Dec. 26; Sp. p. 5709; Gaz. vol. 173; p. 1001.
Thermostat. G. P. Wild. No. 1,012,953; Dec. 26; Sp. p. 5711; Gaz. vol. 173; p. 1002.
Thermostat, Electrical. A. Goldstein. No. 989,347; Apr. 11; Sp. p. 2241; Gaz. vol. 165; p. 380.
Thermostat, Electrical. W. P. Allen. No. 1,000,482; Aug. 15; Sp. p. 2706; Gaz. vol. 169; p. 502.

Thermostat-ventilator. E. E. Gold. No. 1,007,862; Nov. 7; Sp. p. 501; Gaz. vol. 172; p. 75.
Thermostats, Clock attachment for electric. J. C. Kersteter. No. 1,012,365; Dec. 19; Sp. p. 4411; Gaz. vol. 173; p. 755.
Thermostatic alarm. C. H. Pool. No. 983,861; Feb. 7; Sp. p. 1301; Gaz. vol. 163; p. 207.
Thermostatic motor. F. Marti. No. 984,579; Feb. 21; Sp. p. 2883; Gaz. vol. 163; p. 514.
Thermostatic switch. B. J. Smith. No. 1,008,870; Nov. 14; Sp. p. 2775; Gaz. vol. 172; p. 467.
Thermotelephones, Manufacturing hot wires for. B. Gwóźdź. No. 998,965; July 25; Sp. p. 5198; Gaz. vol. 168; p. 928.
Thill. E. Boyd. No. 985,390; Feb. 28; Sp. p. 4612; Gaz. vol. 163; p. 827.
Thill attachment, Vehicle. T. E. Gallup. No. 986,704; Mar. 14; Sp. p. 2003; Gaz. vol. 164; p. 352.
Thill-coupling. J. F. Galvin. No. 991,497; May 9; Sp. p. 1430; Gaz. vol. 166; p. 269.
Thill-coupling. W. Johnston. No. 992,429; May 16; Sp. p. 3449; Gaz. vol. 166; p. 620.
Thill-coupling. E. Erickson. No. 993,441; May 30; Sp. p. 5601; Gaz. vol. 166; p. 1027.
Thill-coupling. R. S. Roberts. No. 995,906; June 20; Sp. p. 3963; Gaz. vol. 167; p. 688.
Thill-coupling. P. Bedwell. No. 1,000,143; Aug. 8; Sp. p. 1964; Gaz. vol. 169; p. 353.
Thill-support. S. B. Hays. No. 1,006,941; Oct. 24; Sp. p. 5258; Gaz. vol. 171; p. 924.
Thimble and soot-catcher, Combined. W. D. Harrell. No. 1,010,624; Dec. 5; Sp. p. 506; Gaz. vol. 173; p. 79.
Thimble attachment. J. T. Ohman. No. 993,709; May 30; Sp. p. 6207; Gaz. vol. 166; p. 1122.
Thimble, Sewing-. A. Constantine. No. 981,173; Jan. 10; Sp. p. 2275; Gaz. vol. 162; p. 376.
Thread and forming same. E. Claviez. No. 999,008; July 25; Sp. p. 5293; Gaz. vol. 168; p. 942.
Thread-beams, Tension for rotary. W. M. Conrad and K. G. List. No. 989,123; Apr. 11; Sp. p. 1743; Gaz. vol. 165; p. 303.
Thread-board. W. O. Aldrich. No. 1,004,227; Sept. 26; Sp. p. 4524; Gaz. vol. 170; p. 801.
Thread-board, Self-balanced. C. E. Williams. No. 998,441; July 18; Sp. p. 4007; Gaz. vol. 168; p. 711.
Thread-cutter. J. W. Cowell. No. 1,005,604; Oct. 10; Sp. p. 2287; Gaz. vol. 171; p. 393.
Thread cutter, Float-. E. H. Marble. No. 1,002,415; Sept. 5; Sp. p. 537; Gaz. vol. 170; p. 76.
Thread cutter, Wrapping-. W. Kunde. No. 985,531; Feb. 28; Sp. p. 4957; Gaz. vol. 163; p. 877.
Thread-cutting die. G. G. Brown. No. 984,745; Feb. 21; Sp. p. 3250; Gaz. vol. 163; p. 574.
Thread-cutting die. F. E. Wells. No. 1,007,317; Oct. 31; Sp. p. 6092; Gaz. vol. 171; p. 1110.
Thread-cutting die and milling device, Combined. P. I. Clark. No. 980,864; Jan. 3; Sp. p. 1472; Gaz. vol. 162; p. 236.
Thread-cutting mechanism. H. P. Kraft. No. 986,724; Mar. 14; Sp. p. 2048; Gaz. vol. 164; p. 359.
Thread-cutting tool. F. O. Jaques, Jr. No. 998,520; July 18; Sp. p. 4170; Gaz. vol. 168; p. 737.
Thread-cutting tool. S. A. Larson. No. 1,003,922; Sept. 19; Sp. p. 3740; Gaz. vol. 170; p. 667.
Thread-cutting tool. R. B. Tewksbury. No. 1,006,511; Oct. 24; Sp. p. 4309; Gaz. vol. 171; p. 773.
Thread-cutting tool. R. B. Tewksbury. No. 1,006,512; Oct. 24; Sp. p. 4312; Gaz. vol. 171; p. 773.
Thread-cutting tool, Taper-. B. Borden and W. A. Neracher. No. 1,005,147; Oct. 10; Sp. p. 1222; Gaz. vol. 171; p. 229.
Thread-dispenser. E. L. Yale. No. 992,324; May 16; Sp. p. 3216; Gaz. vol. 166; p. 584.
Thread-finishing machine. W. C. Keyworth. No. 989,983; Apr. 18; Sp. p. 3641; Gaz. vol. 165; p. 630.
Thread-finishing machine. W. C. Keyworth. No. 990,564; Apr. 25; Sp. p. 4938; Gaz. vol. 165; p. 862.
Thread-finishing machine. W. C. Keyworth. No. 991,856; May 9; Sp. p. 2197; Gaz. vol. 166; p. 392.
Thread-forming apparatus. D. Dreier. No. 981,624; Jan. 17; Sp. p. 3261; Gaz. vol. 162; p. 553.
Thread-gage. J. A. Adell. No. 1,002,019; Aug. 29; Sp. p. 6040; Gaz. vol. 169; p. 1093.
Thread-guide. I. E. Palmer. No. 988,283; Mar. 28; Sp. p. 5359; Gaz. vol. 164; p. 948.
Thread-guide. W. O. Aldrich. No. 1,001,119; Aug. 22; Sp. p. 4161; Gaz. vol. 169; p. 761.
Thread guide and cleaner. J. F. Schenck. No. 991,899; May 9; Sp. p. 2280; Gaz. vol. 166; p. 407.
Thread machine, Wax-. O. E. Brown. No. 1,002,217; Sept. 5; Sp. p. 44; Gaz. vol. 170; p. 5.
Thread-protector. P. J. Shrum. No. 985,946; Mar. 7; Sp. p. 406; Gaz. vol. 164; p. 65.
Thread-protector. P. J. Shrum. No. 994,880; June 13; Sp. p. 1748; Gaz. vol. 167; p. 309.
Thread, Sponge. R. A. Dunning. No. 1,002,829; Sept. 12; Sp. p. 1434; Gaz. vol. 170; p. 255.
Threads, Manufacturing artificial. E. Bechtel. No. 988,430; Apr. 4; Sp. p. 299; Gaz. vol. 165; p. 50.

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Threads or films, as also artificial horsehair, Preparing artificial. F. Lehner. No. 986,017; Mar. 7; Sp. p. 565; Gaz. vol. 164; p. 90.
Threading device. G. T. Sampson. No. 1,001,893; Aug. 29; Sp. p. 5769; Gaz. vol. 169; p. 1052.
Threading-die. W. Richmond. No. 992,903; May 23; Sp. p. 4447; Gaz. vol. 166; p. 815.
Threading-tool. A. Niedhammer. No. 985,690; Feb. 28; Sp. p. 5286; Gaz. vol. 163; p. 931.
Three-high-roll mill. C. L. Taylor. No. 1,004,500; Sept. 26; Sp. p. 5073; Gaz. vol. 170; p. 893.
Three-horse evener. C. Dietrich. No. 1,011,329; Dec. 12; Sp. p. 2114; Gaz. vol. 173; p. 361.
Three-position signal. L. A. Hawkins. No. 1,003,902; Sept. 19; Sp. p. 3704; Gaz. vol. 170; p. 659.
3.6-diaminoacridinium and its salts. P. Ehrlich and L. Benda. No. 1,005,176; Oct. 10; Sp. p. 1292; Gaz. vol. 171; p. 240.
Three-throw switch. A. Fournier. No. 984,423; Feb. 14; Sp. p. 2517; Gaz. vol. 163; p. 426.
Three-wire generator. H. F. T. Erben and J. L. Burnham. No. 993,973; May 30; Sp. p. 6721; Gaz. vol. 166; p. 1210.
Thresher-concave. J. Pelican. No. 993,193; May 23; Sp. p. 5061; Gaz. vol. 166; p. 913.
Thresher-feeder. J. J. Heser. No. 981,085; Jan. 10; Sp. p. 2080; Gaz. vol. 162; p. 343.
Thresher feeder attachment. F. H. Mielke. No. 986,302; Mar. 7; Sp. p. 1129; Gaz. vol. 164; p. 182.
Thresher-rack. J. R. Harrison. No. 993,323; May 23; Sp. p. 5328; Gaz. vol. 166; p. 955.
Thresher-rack. J. R. Harrison. No. 999,716; Aug. 1; Sp. p. 1024; Gaz. vol. 169; p. 177.
Thresher, Standing-grain. C. C. Baldwin. No. 1,004,134; Sept. 26; Sp. p. 4324; Gaz. vol. 170; p. 769.
Threshers and other vehicles, Leveling attachment for. R. Risner. No. 980,439; Jan. 3; Sp. p. 545; Gaz. vol. 162; p. 92.
Threshing and recleaning machine, Peanut. M. B. Bates. No. 1,002,116; Aug. 29; Sp. p. 6216; Gaz. vol. 169; p. 1123.
Threshing-machine. A. Reason. No. 990,007; Apr. 18; Sp. p. 3681; Gaz. vol. 165; p. 638.
Threshing-machine. J. E. Miller. No. 990,284; Apr. 25; Sp. p. 4275; Gaz. vol. 165; p. 763.
Threshing-machine. C. M. Frick. No. 999,640; Aug. 1; Sp. p. 870; Gaz. vol. 169; p. 151.
Threshing-machine. C. Van Bergh. No. 1,000,056; Aug. 8; Sp. p. 1731; Gaz. vol. 169; p. 323.
Threshing-machine. N. Hystad. No. 1,009,971; Nov. 28; Sp. p. 5134; Gaz. vol. 172; p. 925.
Threshing-machine attachment. L. M. Thomson. No. 997,641; July 11; Sp. p. 2180; Gaz. vol. 168; p. 386.
Threshing-machine attachment. W. J. Lattimer. No. 1,007,297; Oct. 31; Sp. p. 6044; Gaz. vol. 171; p. 1103.
Threshing-machine attachment. A. L. Reese. No. 1,011,370; Dec. 12; Sp. p. 2194; Gaz. vol. 173; p. 374.
Threshing-machine concave. G. Langehennig. No. 984,094; Feb. 14; Sp. p. 1837; Gaz. vol. 163; p. 316.
Threshing-machine cylinder. O. C. Shaw. No. 1,011,379; Dec. 12; Sp. p. 2206; Gaz. vol. 173; p. 376.
Threshing-machine cylinder-bar. W. A. Thielbar. No. 1,010,201; Nov. 28; Sp. p. 5604; Gaz. vol. 172; p. 1004.
Threshing-machine feed-hopper. F. F. Landis. No. 995,689; June 20; Sp. p. 3478; Gaz. vol. 167; p. 613.
Threshing-machine feeder. W. Weis. No. 992,308; May 16; Sp. p. 3181; Gaz. vol. 166; p. 578.
Threshing-machine feeder. W. Weis. (Reissue.) No. 13,242; May 16; Sp. p. 4096; Gaz. vol. 166; p. 732.
Threshing-machine feeding device. T. E. Mahoney. No. 981,580; Jan. 10; Sp. p. 3158; Gaz. vol. 162; p. 515.
Threshing-machine-leveling device. W. A. Pennington. No. 999,123; July 25; Sp. p. 5507; Gaz. vol. 168; p. 980.
Threshing-machines and the like, Feeder for. J. W. Schneider. No. 1,012,922; Dec. 26; Sp. p. 5618; Gaz. vol. 173; p. 991.
Threshing-machines, Self-feeder and band-cutter for. R. and B. Crain. No. 1,004,377; Sept. 26; Sp. p. 4821; Gaz. vol. 170; p. 851.
Thumb-knife. E. D. Arwine. No. 1,000,226; Aug. 8; Sp. p. 2148; Gaz. vol. 169; p. 382.
Ticket. H. W. Hargis. No. 992,557; May 16; Sp. p. 3723; Gaz. vol. 166; p. 666.
Ticket, Car-. O. Asselin. No. 997,729; July 11; Sp. p. 2372; Gaz. vol. 168; p. 416.
Ticket, Coupon passenger-. R. D. Smith. No. 986,095; Mar. 7; Sp. p. 723; Gaz. vol. 164; p. 116.
Ticket-delivering apparatus. D. Sanneman and E. S. Mayland. No. 989,647; Apr. 18; Sp. p. 2913; Gaz. vol. 165; p. 514.
Ticket-holder. F. L. O'Bryan. No. 984,841; Feb. 21; Sp. p. 3439; Gaz. vol. 163; p. 607.
Ticket holder, Car-. A. E. Hindle. No. 1,001,402; Aug. 22; Sp. p. 4745; Gaz. vol. 169; p. 855.
Ticket holder, Street-car-. A. McCulloch. No. 1,011,981; Dec. 19; Sp. p. 3562; Gaz. vol. 173; p. 623.
Ticket holder, Transfer-. F. B. Gordon. No. 1,008,135; Nov. 7; Sp. p. 1044; Gaz. vol. 172; p. 170.
Ticket-holding case. A. Stinson. No. 981,030; Jan. 10; Sp. p. 1966; Gaz. vol. 162; p. 324.
Ticket-indicator box and cash-drawer. O. Grimm. No. 995,962; June 20; Sp. p. 4065; Gaz. vol. 167; p. 708.
Ticket issuing and recording machine. J. F. Ohmer and E. H. Bridenbaugh. No. 992,380; May 16; Sp. p. 3349; Gaz. vol. 166; p. 603.
Ticket or check holder. M. Macdonald. No. 1,007,123; Oct. 31; Sp. p. 5663; Gaz. vol. 171; p. 1040.
Ticket severing and retaining device. J. C. Patterson. No. 985,445; Feb. 28; Sp. p. 4754; Gaz. vol. 163; p. 845.
Ticket, Transfer-. F. W. Shean. No. 995,917; June 20; Sp. p. 3981; Gaz. vol. 167; p. 692.
Tickets and the like, Apparatus for sale of. V. M. Madsen. No. 1,003,116; Sept. 12; Sp. p. 2061; Gaz. vol. 170; p. 355.
Tickets, Combined holder and cutter for mileage railway-. E. P. Frost. No. 1,011,888; Dec. 12; Sp. p. 3342; Gaz. vol. 173; p. 554.
Tidal hydraulic-power plant. A. Hanss. No. 986,821; Mar. 14; Sp. p. 2262; Gaz. vol. 164; p. 392.
Tidal-power device. T. G. Bird. No. 999,198; Aug. 1; Sp. p. 11; Gaz. vol. 169; p. 4.
Tide-motor. W. Schweikert. No. 1,012,722; Dec. 26; Sp. p. 5153; Gaz. vol. 173; p. 923.
Tide or wave operated motor. C. C. Atkinson. No. 987,685; Mar. 28; Sp. p. 4068; Gaz. vol. 164; p. 747.
Tide-water motor. J. Hall. No. 1,002,986; Sept. 12; Sp. p. 1793; Gaz. vol. 170; p. 310.
Tide-water motor. J. Hall. No. 1,012,075; Dec. 19; Sp. p. 3784; Gaz. vol. 173; p. 656.
Tie: *See* Bag-tie; Bale-tie; Cement and concrete railway-tie; Concrete tie; Concrete and steel tie; Concrete cross-tie; Concrete railway-tie; Concrete railway cross-tie; Cross-tie; Cross and switch tie; Fence-tie; Fodder-tie; Grape-tie; Metal tie; Metallic tie; Necktie; Package-tie; Plastic tie; Rail-tie; Rail-supporting tie; Railway-tie; Railway cross-tie; Railway metal tie; Railway-rail tie; Steel tie.
Tie. A. F. Chambliss. No. 999,094; July 25; Sp. p. 5466; Gaz. vol. 168; p. 972.
Tie. W. G. Chipley. No. 1,001,355; Aug. 22; Sp. p. 4647; Gaz. vol. 169; p. 839.
Tie. P. Hahn. No. 1,009,967; Nov. 28; Sp. p. 5129; Gaz. vol. 172; p. 924.
Tie. J. D. Flaig. No. 1,011,335; Dec. 12; Sp. p. 2126; Gaz. vol. 173; p. 363.
Tie. J. T. Wade. No. 1,012,942; Dec. 26; Sp. p. 5683; Gaz. vol. 173; p. 998.
Tie and rail-fastener. F. W. Worley. No. 994,551; June 6; Sp. p. 934; Gaz. vol. 167; p. 155.
Tie and rail-fastener. J. A. McKenna. No. 998,368; July 18; Sp. p. 3872; Gaz. vol. 168; p. 687.
Tie and rail-fastener. W. H. Newcomer. No. 998,381; July 18; Sp. p. 3897; Gaz. vol. 168; p. 691.
Tie and rail-fastener. C. Sowers. No. 1,001,470; Aug. 22; Sp. p. 4857; Gaz. vol. 169; p. 876.
Tie and rail-fastener. H. H. Wiggins. No. 1,001,569; Aug. 22; Sp. p. 5046; Gaz. vol. 169; p. 910.
Tie and rail-fastener. H. H. Wiggins. No. 1,002,103; Aug. 29; Sp. p. 6189; Gaz. vol. 169; p. 1119.
Tie and rail-fastener. W. G. Lucas. No. 1,005,050; Oct. 3; Sp. p. 1046; Gaz. vol. 171; p. 175.
Tie and rail-fastener. T. J. Spickerman. No. 1,006,309; Oct. 17; Sp. p. 3842; Gaz. vol. 171; p. 673.
Tie and rail-fastener. M. S. Reigh. No. 1,007,490; Oct. 31; Sp. p. 6458; Gaz. vol. 171; p. 1170.
Tie and rail-fastener. R. Ream. No. 1,010,073; Nov. 28; Sp. p. 5365; Gaz. vol. 172; p. 961.
Tie and rail-fastener. W. E. McKim. No. 1,012,683; Dec. 26; Sp. p. 5057; Gaz. vol. 173; p. 907.
Tie and rail-securing means. G. W. Whiteman. No. 995,748; June 20; Sp. p. 3606; Gaz. vol. 167; p. 633.
Tie device for wooden structures. J. W. Slayton. No. 989,198; Apr. 11; Sp. p. 1893; Gaz. vol. 165; p. 329.
Tie former and holder, Four-in-hand-. J. Hulett. No. 1,004,265; Sept. 26; Sp. p. 4600; Gaz. vol. 170; p. 813.
Tie holder and press. J. E. Hughes. No. 1,004,264; Sept. 26; Sp. p. 4599; Gaz. vol. 170; p. 813.
Tie-nipper. W. A. Scott. No. 1,005,658; Oct. 10; Sp. p. 2404; Gaz. vol. 171; p. 413.
Tie-pin. L. A. Rizzuto. No. 992,064; May 9; Sp. p. 2600; Gaz. vol. 166; p. 462.
Tie-plate. C. P. Byrnes. No. 981,378; Jan. 10; Sp. p. 2748; Gaz. vol. 162; p. 446.
Tie-plate. W. T. Bentz. No. 989,321; Apr. 11; Sp. p. 2194; Gaz. vol. 165; p. 372.
Tie-plate. S. Friedman. No. 997,664; July 11; Sp. p. 2225; Gaz. vol. 168; p. 393.
Tie-plate. H. Edwards. No. 997,909; July 11; Sp. p. 2809; Gaz. vol. 168; p. 480.
Tie-plate. J. M. Sellers. No. 1,000,954; Aug. 15; Sp. p. 3731; Gaz. vol. 169; p. 668.
Tie-plate. E. H. Bell. No. 1,001,921; Aug. 29; Sp. p. 5831; Gaz. vol. 169; p. 1061.
Tie-plate. E. Posson. No. 1,003,505; Sept. 19; Sp. p. 2867; Gaz. vol. 170; p. 523.
Tie-plate. B. P. Bloodworth. No. 1,006,527; Oct. 24; Sp. p. 4344; Gaz. vol. 171; p. 779.
Tie-plate. F. S. James. No. 1,006,947; Oct. 24; Sp. p. 5267; Gaz. vol. 171; p. 926.
Tie-plate. J. W. Kendrick. No. 1,011,208; Dec. 12; Sp. p. 1811; Gaz. vol. 173; p. 315.

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Tie-plate and anticreeper, Combination. P. W. Moore. No. 1,000,105; Aug. 8; Sp. p. 1884; Gaz. vol. 169; p. 340.
Tie-plate and brace. J. B. R. Counts. No. 988,174; Mar. 28; Sp. p. 5145; Gaz. vol. 164; p. 912.
Tie-plate and rail-fastener, Combined. A. W. Foix and A. Lebouvier. No. 1,009,496; Nov. 21; Sp. p. 4190; Gaz. vol. 172; p. 721.
Tie-plate and rail-fastening, Combined. H. K. Myers. No. 980,322; Jan. 3; Sp. p. 276; Gaz. vol. 162; p. 51.
Tie-plate, brace, and guard-rail, Combined. R. W. Edwards. No. 1,006,999; Oct. 24; Sp. p. 5377; Gaz. vol. 171; p. 943.
Tie plate, Sheet-. W. F. Scott. No. 987,407; Mar. 21; Sp. p. 3491; Gaz. vol. 164; p. 623.
Tie-plates, Composite rolls for forming. D. H. Lentz. No. 983,379; Feb. 7; Sp. p. 261; Gaz. vol. 163; p. 41.
Tie-plates, Forming. W. L. De Remer. No. 980,500; Jan. 3; Sp. p. 708; Gaz. vol. 162; p. 114.
Tie-remover. J. C. Burns. No. 1,003,399; Sept. 12; Sp. p. 2636; Gaz. vol. 170; p. 453.
Tie-spacer. H. All and B. M. Buckland. No. 984,638; Feb. 21; Sp. p. 3020; Gaz. vol. 163; p. 535.
Tie-wire-looping machine. F. Regenold. No. 1,011,082; Dec. 5; Sp. p. 1492; Gaz. vol. 173; p. 236.
Tile. E. F. Wiederholt. No. 989,677; Apr. 18; Sp. p. 2976; Gaz. vol. 165; p. 524.
Tile. A. J. Meier. No. 996,040; June 20; Sp. p. 4227; Gaz. vol. 167; p. 734.
Tile. W. E. Rivers. No. 998,203; July 18; Sp. p. 3463; Gaz. vol. 168; p. 624.
Tile. T. Lydon. No. 999,509; Aug. 1; Sp. p. 623; Gaz. vol. 169; p. 107.
Tile. C. C. Stutz. No. 1,003,820; Sept. 19; Sp. p. 3546; Gaz. vol. 170; p. 631.
Tile and sewer-drain protector. M. N. Hagaman, L. V. Smiley, and G. W. Hall. No. 999,106; July 25; Sp. p. 5483; Gaz. vol. 168; p. 976.
Tile and the like, Machine for making. C. G. Elmore. No. 986,448; Mar. 14; Sp. p. 1462; Gaz. vol. 164; p. 264.
Tile-backing. F. Alcan. No. 984,637; Feb. 21; Sp. p. 3019; Gaz. vol. 163; p. 535.
Tile-cutting table. M. Mueller. No. 1,004,062; Sept. 26; Sp. p. 4136; Gaz. vol. 170; p. 743.
Tile, Gutter-. J. Freund. No. 1,003,729; Sept. 19; Sp. p. 3368; Gaz. vol. 170; p. 602.
Tile, Hollow metal. J. H. Sherman. No. 1,009,865; Nov. 28; Sp. p. 4930; Gaz. vol. 172; p. 891.
Tile-laying machine. H. M. Fisk. No. 991,292; May 2; Sp. p. 994; Gaz. vol. 166; p. 168.
Tile-machine. J. Rotarius. No. 995,293; June 13; Sp. p. 2572; Gaz. vol. 167; p. 445.
Tile-machine. A. Wichertjes. No. 1,000,469; Aug. 15; Sp. p. 2679; Gaz. vol. 169; p. 498.
Tile-machine. D. Leonard. No. 1,007,214; Oct. 31; Sp. p. 5878; Gaz. vol. 171; p. 1073.
Tile-machine former-head. J. H. Stewart and J. M. Schenk. No. 1,006,603; Oct. 24; Sp. p. 4530; Gaz. vol. 171; p. 807.
Tile-machine, Power. H. and J. H. Besser. No. 981,051; Jan. 10; Sp. p. 2008; Gaz. vol. 162; p. 331.
Tile-making machine. L. B. Richmond, H. S. Holmes, and L. R. Peck. No. 998,637; July 25; Sp. p. 4435; Gaz. vol. 168; p. 811.
Tile-marker. H. P. Fogertey. No. 999,770; Aug. 8; Sp. p. 1140; Gaz. vol. 169; p. 226.
Tile-mold. J. C. Miller. No. 1,000,427; Aug. 15; Sp. p. 2592; Gaz. vol. 169; p. 483.
Tile-molding apparatus. J. Banovitch. No. 996,555; June 27; Sp. p. 5387; Gaz. vol. 167; p. 943.
Tile, Ornamental. C. H. Bellamy. No. 982,029; Jan. 17; Sp. p. 4152; Gaz. vol. 162; p. 692.
Tile, Sectional drain-. J. M. Wilson. No. 1,012,955; Dec. 26; Sp. p. 5714; Gaz. vol. 173; p. 1002.
Tile-warpage, Means for detecting and indicating. W. B. Updegraff. No. 992,460; May 16; Sp. p. 3498; Gaz. vol. 166; p. 630.
Tile with compound light-pane, Roofing-. C. C. Stutz. No. 989,440, Apr. 11; Sp. p. 2430; Gaz. vol. 165; p. 411.
Tiles and the like, Device for finishing the ends of drain-. G. E. Goldner. No. 1,001,945; Aug. 29; Sp. p. 5893; Gaz. vol. 169; p. 1068.
Tiles and the like, Machine for molding. R. H. Fair. No. 985,888; Mar. 7; Sp. p. 278; Gaz. vol. 164; p. 45.
Tiles with flanged edges for embedment in plaster, Apparatus for molding automatically ceramic. A. Weill. No. 1,005,383; Oct. 10; Sp. p. 1769; Gaz. vol. 171; p. 316.
Tiling. A. Du Montier. No. 984,126; Feb. 14; Sp. p. 1892; Gaz. vol. 163; p. 325.
Tiling for roofs. D. W. Buchanan. No. 989,328; Apr. 11; Sp. p. 2203; Gaz. vol. 165; p. 374.
Tilling-machine. G. Spalding. No. 988,741; Apr. 4; Sp. p. 973; Gaz. vol. 165; p. 154.
Tilling-machine. H. M. Parker. No. 1,010,947; Dec. 5; Sp. p. 1214; Gaz. vol. 173; p. 191.
Tilling-machine frame. G. Spalding. No. 991,461; May 2; Sp. p. 1355; Gaz. vol. 166; p. 225.
Tilling-machine moldboard. G. Spalding. No. 988,740; Apr. 4; Sp. p. 972; Gaz. vol. 165; p. 154.
Tilling the ground, Machine for. H. Kerrinnes. No. 987,577; Mar. 21; Sp. p. 3819; Gaz. vol. 164; p. 680.
Tilting rake. I. Skjeldrup. No. 984,399; Feb. 14; Sp. p. 2472; Gaz. vol. 163; p. 418.
Timber and the like, Tool for hauling. M. F. Bugge. No. 1,007,769; Nov. 7; Sp. p. 258; Gaz. vol. 172; p. 42.
Timber, Electric process for drying. A. U. Alcock. No. 1,007,513; Oct. 31; Sp. p. 6512; Gaz. vol. 171; p. 1178.
Timber, Impregnating. A. Kolossváry, S. Haltenberger, and E. Berdenich. No. 1,012,207; Dec. 19; Sp. p. 4085; Gaz. vol. 173; p. 701.
Timber-strengthening rod. F. B. Pease. No. 1,002,927; Sept. 12; Sp. p. 1685; Gaz. vol. 170; p. 291.
Timber with a preservative fluid, Treating. J. G. Paty. No. 986,751; Mar. 14; Sp. p. 2108; Gaz. vol. 164; p. 368.
Time-alarm for hotels, &c., Electric. G. M. Hinman. No. 982,495; Jan. 24; Sp. p. 5124; Gaz. vol. 162; p. 884.
Time-check board. H. Pile. No. 996,521; June 27; Sp. p. 5316; Gaz. vol. 167; p. 932.
Time-controlled apparatus. H. Bates. No. 1,007,415; Oct. 31; Sp. p. 6288; Gaz. vol. 171; p. 1144.
Time-controlled mechanism. A. Carpenter. No. 1,003,335; Sept. 12; Sp. p. 2517; Gaz. vol. 170; p. 433.
Time-controlled switch. G. W. Free. No. 1,008,634; Nov. 14; Sp. p. 2294; Gaz. vol. 172; p. 387.
Time-detector, Watchman's. P. Moosmann. (Reissue.) No. 13,201; Feb. 7; Sp. p. 1326; Gaz. vol. 163; p. 212.
Time-indicator. G. W. Robins. No. 989,807; Apr. 18; Sp. p. 3258; Gaz. vol. 165; p. 569.
Time-indicator. C. S. Comins. No. 994,126; June 6; Sp. p. 49; Gaz. vol. 167; p. 10.
Time-indicator. E. H. Corson. No. 1,002,227; Sept. 5; Sp. p. 79; Gaz. vol. 170; p. 9.
Time-lock. W. H. Taylor. No. 995,814; June 20; Sp. p. 3769; Gaz. vol. 167; p. 657.
Time-lock for safes and vaults. C. A. Miller. No. 991,629; May 9; Sp. p. 1720; Gaz. vol. 166; p. 316.
Time-lock for safes and vaults. W. H. Taylor. No. 991,669; May 9; Sp. p. 1822; Gaz. vol. 166; p. 331.
Time-lock for submarine mines. C. R. Gabriel. No. 1,010,039; Nov. 28; Sp. p. 5297; Gaz. vol. 172; p. 949.
Time-recorder. W. H. Bundy. No. 983,533; Feb. 7; Sp. p. 583; Gaz. vol. 163; p. 94.
Time-recorder. W. L. Green and W. S. Eaton. No. 986,457; Mar. 14; Sp. p. 1484; Gaz. vol. 164; p. 268.
Time-recorder. E. E. Yaxley. No. 997,353; July 11; Sp. p. 1597; Gaz. vol. 168; p. 289.
Time-recorder. R. S. Blair. No. 1,010,575; Dec. 5; Sp. p. 387; Gaz. vol. 173; p. 61.
Time-regulator. T. E. Hunt. No. 985,593; Feb. 28; Sp. p. 5084; Gaz. vol. 163; p. 899.
Time-switch. A. W. Koiner. No. 980,288; Jan. 3; Sp. p. 205; Gaz. vol. 162; p. 40.
Time-switch. C. E. Campbell. No. 984,191; Feb. 14; Sp. p. 2017; Gaz. vol. 163; p. 347.
Time-switch. J. M. Chappel. No. 996,616; July 4; Sp. p. 44; Gaz. vol. 168; p. 9.
Time-switch. F. Schmid, Jr. No. 1,012,721; Dec. 26; Sp. p. 5149; Gaz. vol. 173; p. 923.
Time-switch, Automatic. R. W. Lawson and H. B. Snell. No. 989,527; Apr. 11; Sp. p. 2615; Gaz. vol. 165; p. 441.
Timer. G. T. Brown. No. 997,746; July 11; Sp. p. 2430; Gaz. vol. 168; p. 424.
Timer and distributer-magneto, Combined. W. E. Dow. No. 991,490; May 9; Sp. p. 1417; Gaz. vol. 166; p. 267.
Timing device. H. K. Hathaway. No. 995,597; June 20; Sp. p. 3294; Gaz. vol. 167; p. 580.
Timepiece. F. J. Reaves. No. 1,011,246; Dec. 12; Sp. p. 1913; Gaz. vol. 173; p. 330.
Timepiece winding-indicator. W. L. Johnson. No. 1,011,437; Dec. 12; Sp. p. 2323; Gaz. vol. 173; p. 397.
Timepieces, Time indicator or marker for. F. Whitney. No. 998,312; July 18; Sp. p. 3754; Gaz. vol. 168; p. 667.
Tin or like plates, Apparatus for the manufacture of. S. C. Stiner and R. H. Kehring. (Reissue.) No. 13,287; Aug. 29; Sp. p. 6409; Gaz. vol. 169; p. 1155.
Tin-plate-finishing machine. L. C. Steele. No. 995,639; June 20; Sp. p. 3379; Gaz. vol. 167; p. 595.
Tin-scrap, Detinning. K. Goldschmidt and J. Weber. No. 1,005,022; Oct. 3; Sp. p. 990; Gaz. vol. 171; p. 165.
Tin scraps, Detinning. C. von der Linde. No. 981,775; Jan. 17; Sp. p. 3560; Gaz. vol. 162; p. 604.
Tin scraps preparatory to detinning the same, Purifying. C. Von der Linde. No. 996,380; June 27; Sp. p. 5032; Gaz. vol. 167; p. 886.
Tinder-box, Mechanical. O. Gergacsevics. No. 992,766; May 23; Sp. p. 4138; Gaz. vol. 166; p. 766.
Tintype-machine. F. B. Dickason. No. 994,064; May 30; Sp. p. 6911; Gaz. vol. 166; p. 1241.
Tipping vessel with traveling carriage, Self-acting. W. Thele. No. 986,325; Mar. 7; Sp. p. 1182; Gaz. vol. 164; p. 191.
Tire. F. Reed. No. 982,634; Jan. 24; Sp. p. 5393; Gaz. vol. 162; p. 930.
Tire. T. W. Peet. No. 984,597; Feb. 21; Sp. p. 2924; Gaz. vol. 163; p. 520.
Tire. A. B. Thoman and P. H. Slamin. No. 985,302; Feb. 28; Sp. p. 4440; Gaz. vol. 163; p. 798.
Tire. V. O. Mervine. No. 986,930; Mar. 14; Sp. p. 2483; Gaz. vol. 164; p. 429.
Tire. W. D. Furey. No. 987,292; Mar. 21; Sp. p. 3240; Gaz. vol. 164; p. 585.

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Tire. W. A. Köneman. No. 988,475; Apr. 4; Sp. p. 397; Gaz. vol. 165; p. 64.
Tire. E. P. Beach. No. 990,214; Apr. 25; Sp. p. 4116; Gaz. vol. 165; p. 737.
Tire. S. Z. de Ferranti. No. 990,350; Apr. 25; Sp. p. 4439; Gaz. vol. 165; p. 785.
Tire. J. B. Crawford and J. R. Milliken. No. 990,848; May 2; Sp. p. 45; Gaz. vol. 166; p. 10.
Tire. D. C. Thomas. No. 991,563; May 9; Sp. p. 1586; Gaz. vol. 166; p. 292.
Tire. J. P. Schmand. No. 992,604; May 16; Sp. p. 3828; Gaz. vol. 166; p. 682.
Tire. C. L. Schwarz. No. 997,708; July 11; Sp. p. 2313; Gaz. vol. 168; p. 409.
Tire. G. S. Connor. No. 998,753; July 25; Sp. p. 4712; Gaz. vol. 168; p. 853.
Tire. J. J. Patton. No. 998,980; July 25; Sp. p. 5237; Gaz. vol. 168; p. 933.
Tire. D. Lippy. No. 999,810; Aug. 8; Sp. p. 1221; Gaz. vol. 169; p. 239.
Tire. J. W. and G. F. Burgess. No. 1,001,348; Aug. 22; Sp. p. 4630; Gaz. vol. 169; p. 837.
Tire. F. Power. No. 1,002,604; Sept. 5; Sp. p. 951; Gaz. vol. 170; p. 141.
Tire. O. H. Hinds. No. 1,002,693; Sept. 5; Sp. p. 1131; Gaz. vol. 170; p. 170.
Tire. E. A. Sundvall. No. 1,003,071; Sept. 12; Sp. p. 1950; Gaz. vol. 170; p. 337.
Tire. A. F. Kramer. No. 1,003,363; Sept. 12; Sp. p. 2573; Gaz. vol. 170; p. 443.
Tire. D. Nelson. No. 1,004,895; Oct. 3; Sp. p. 767; Gaz. vol. 171; p. 123.
Tire. H. O. Wilson. No. 1,004,950; Oct. 3; Sp. p. 866; Gaz. vol. 171; p. 141.
Tire. J. M. Abrams. No. 1,005,122; Oct. 10; Sp. p. 1176; Gaz. vol. 171; p. 221.
Tire. C. L. Rempes. No. 1,005,470; Oct. 10; Sp. p. 1956; Gaz. vol. 171; p. 345.
Tire. M. F., Jr., and L. A. Fiset. No. 1,005,627; Oct. 10; Sp. p. 2334; Gaz. vol. 171; p. 401.
Tire. T. J. Thatcher. No. 1,007,015; Oct. 24; Sp. p. 5407; Gaz. vol. 171; p. 948.
Tire. J. B. Price. No. 1,007,889; Nov. 7; Sp. p. 550; Gaz. vol. 172; p. 84.
Tire. R. E. Olds. No. 1,008,051; Nov. 7; Sp. p. 869; Gaz. vol. 172; p. 140.
Tire. J. M. Benham and G. W. Slater. No. 1,008,688; Nov. 14; Sp. p. 2401; Gaz. vol. 172; p. 405.
Tire. W. H. Reed. No. 1,011,894; Dec. 12; Sp. p. 3354; Gaz. vol. 173; p. 556.
Tire. F. H. Lathrop. No. 1,012,375; Dec. 19; Sp. p. 4428; Gaz. vol. 173; p. 758.
Tire-alarm. L. E. Cowey. No. 995,224; June 13; Sp. p. 2438; Gaz. vol. 167; p. 422.
Tire and rim, Vehicle. J. E. Hale. No. 1,010,137; Nov. 28; Sp. p. 5486; Gaz. vol. 172; p. 983.
Tire and tire-carrying rim for the wheels of motor-cars, &c. J. S. Clarke. No. 987,344; Mar. 21; Sp. p. 3352; Gaz. vol. 164; p. 601.
Tire and wheel-rim, Combined sectional. F. M. Henry. No. 1,010,258; Nov. 28; Sp. p. 5717; Gaz. vol. 172; p. 1022.
Tire antiskidding armor. W. M. Paul. No. 982,630; Jan. 24; Sp. p. 5386; Gaz. vol. 162; p. 929.
Tire antislipping and antiskidding attachment. C. B. Woodworth. No. 1,009,368; Nov. 21; Sp. p. 3898; Gaz. vol. 172; p. 677.
Tire antislipping device, Resilient-. O. A. Trana. No. 995,428; June 13; Sp. p. 2914; Gaz. vol. 167; p. 492.
Tire-applying tool. T. W. Burt. No. 1,003,030; Sept. 12; Sp. p. 1897; Gaz. vol. 170; p. 324.
Tire-armor. R. G. Dunwody. No. 980,930; Jan. 10; Sp. p. 1667; Gaz. vol. 162; p. 289.
Tire-armor. H. C. Willis. No. 982,453; Jan. 24; Sp. p. 5050; Gaz. vol. 162; p. 871.
Tire-armor. H. M. Ramsay and A. McGary. No. 985,935; Mar. 7; Sp. p. 385; Gaz. vol. 164; p. 61.
Tire-armor. J. M. Barnett. No. 994,969; June 13; Sp. p. 1930; Gaz. vol. 167; p. 339.
Tire-armor. A. M. Bruce. No. 997,646; July 11; Sp. p. 2191; Gaz. vol. 168; p. 388.
Tire-armor. H. J. Von der Lieth. No. 1,005,377; Oct. 10; Sp. p. 1758; Gaz. vol. 171; p. 314.
Tire-armor. M. Pelz. No. 1,009,092; Nov. 21; Sp. p. 3267; Gaz. vol. 172; p. 578.
Tire, Armored. G. D. Moore and R. L. Morgan. No. 992,796; May 23; Sp. p. 4201; Gaz. vol. 166; p. 776.
Tire, Armored pneumatic. C. F. Williams. No. 1,001,492; Aug. 22; Sp. p. 4894; Gaz. vol. 169; p. 884.
Tire, Automobile-. A. R. Brewer. No. 981,611; Jan. 17; Sp. p. 3230; Gaz. vol. 162; p. 548.
Tire, Automobile-. H. P. Farnsworth. No. 981,627; Jan. 17; Sp. p. 3268; Gaz. vol. 162; p. 554.
Tire, Automobile-. C. L. Vandervort, O. J. Pitt, and C. F. Vandervort. No. 983,008; Jan. 31; Sp. p. 6220; Gaz. vol. 162; p. 1084.
Tire, Automobile-. H. E. Rechner. No. 990,456; Apr. 25; Sp. p. 4690; Gaz. vol. 165; p. 825.
Tire, Automobile-. G. E. Tomlinson. No. 990,609; Apr. 25; Sp. p. 5035; Gaz. vol. 165; p. 877.
Tire, Automobile-. S. J. Moore. No. 991,737; May 9; Sp. p. 1960; Gaz. vol. 166; p. 352.
Tire, Automobile-. A. D. Simpson. No. 994,610; June 6; Sp. p. 1058; Gaz. vol. 167; p. 176.
Tire, Automobile-. C. E. Scheuring. No. 1,004,695; Oct. 3; Sp. p. 309; Gaz. vol. 171; p. 53.
Tire, Automobile-. D. L. Gates. No. 1,007,778; Nov. 7; Sp. p. 285; Gaz. vol. 172; p. 45.
Tire, Automobile-. F. M. Crispin. No. 1,009,284; Nov. 21; Sp. p. 3711; Gaz. vol. 172; p. 646.
Tire, Automobile-. T. Christopherson. No. 1,010,234; Nov. 28; Sp. p. 5675; Gaz. vol. 172; p. 1015.
Tire, Automobile spring-. N. A. Schneider. No. 1,005,332; Oct. 10; Sp. p. 1666; Gaz. vol. 171; p. 298.
Tire-bolt wrench. T. W. Hutchinson. No. 980,527; Jan. 3; Sp. p. 773; Gaz. vol. 162; p. 123.
Tire-building machine. R. Rowley. No. 990,392; Apr. 25; Sp. p. 4543; Gaz. vol. 165; p. 802.
Tire-case. B. A. Alperin. No. 993,632; May 30; Sp. p. 6016; Gaz. vol. 166; p. 1093.
Tire-case. C. H. Semple. No. 998,042; July 18; Sp. p. 3125; Gaz. vol. 168; p. 568.
Tire-casing. H. R. Holbrook. No. 983,231; Jan. 31; Sp. p. 6677; Gaz. vol. 162; p. 1159.
Tire-chain. A. B. Saliger. No. 995,372; June 13; Sp. p. 2773; Gaz. vol. 167; p. 473.
Tire-chain. V. Mancini. No. 998,366; July 18; Sp. p. 3871; Gaz. vol. 168; p. 687.
Tire-clamp for vehicle-wheels. F. M., J. S., and W. W. Hilton. No. 1,011,345; Dec. 12; Sp. p. 2144; Gaz. vol. 173; p. 366.
Tire-cleat. T. J. McKenzie. No. 998,369; July 18; Sp. p. 3873; Gaz. vol. 168; p. 688.
Tire construction. C. N. Harrison. No. 997,809; July 11; Sp. p. 2593; Gaz. vol. 168; p. 445.
Tire construction. P. E. Wirt. No. 1,009,364; Nov. 21; Sp. p. 3882; Gaz. vol. 172; p. 676.
Tire construction. P. E. Wirt. No. 1,009,365; Nov. 21; Sp. p. 3885; Gaz. vol. 172; p. 676.
Tire construction. P. E. Wirt. No. 1,009,366; Nov. 21; Sp. p. 3892; Gaz. vol. 172; p. 676.
Tire cover, Pneumatic-. A. J. Michelin. No. 997,687; July 11; Sp. p. 2270; Gaz. vol. 168; p. 402.
Tire cover, Pneumatic-. R. Latour. No. 1,006,570; Oct. 24; Sp. p. 4461; Gaz. vol. 171; p. 796.
Tire cover, Spare-. H. Cohen. No. 1,012,247; Dec. 19; Sp. p. 4166; Gaz. vol. 173; p. 715.
Tire-covers, Stud for. A. Noël. No. 992,239; May 16; Sp. p. 3005; Gaz. vol. 166; p. 554.
Tire, Cushion-. J. A. Mollitor. No. 981,213; Jan. 10; Sp. p. 2354; Gaz. vol. 162; p. 388.
Tire, Cushion-. L. Knapp. No. 982,968; Jan. 31; Sp. p. 6126; Gaz. vol. 162; p. 1070.
Tire, Cushion-. A. W. Shank. No. 987,751; Mar. 28; Sp. p. 4210; Gaz. vol. 164; p. 768.
Tire, Cushion-. D. J. Thayer. No. 988,045; Mar. 28; Sp. p. 4904; Gaz. vol. 164; p. 870.
Tire, Cushion-. C. L. Drake. No. 988,318; Apr. 4; Sp. p. 45; Gaz. vol. 165; p. 10.
Tire, Cushion-. G. H. Matteson. No. 995,620; June 20; Sp. p. 3340; Gaz. vol. 167; p. 589.
Tire, Cushion-. P. Schau. No. 1,005,326; Oct. 10; Sp. p. 1654; Gaz. vol. 171; p. 296.
Tire, Cushion-. M. J. Altland. No. 1,005,589; Oct. 10; Sp. p. 2258; Gaz. vol. 171; p. 389.
Tire, Cushion-. G. H. Matteson. No. 1,006,665; Oct. 24; Sp. p. 4646; Gaz. vol. 171; p. 828.
Tire-cushioning device. E. Favary. No. 981,253; Jan. 10; Sp. p. 2485; Gaz. vol. 162; p. 404.
Tire demountable rim, Vehicle-wheel-. J. G. and J. G. Hodgson, Jr. No. 981,265; Jan. 10; Sp. p. 2507; Gaz. vol. 162; p. 408.
Tire demountable vehicle-rim, Resilient-. J. G. and J. G. Hodgson, Jr. No. 981,266; Jan. 10; Sp. p. 2509; Gaz. vol. 162; p. 408.
Tire device. D. W. Wilt. No. 1,010,560; Dec. 5; Sp. p. 351; Gaz. vol. 173; p. 56.
Tire, Elastic. F. Schiller. No. 992,603; May 16; Sp. p. 3827; Gaz. vol. 166; p. 682.
Tire, Elastic. C. S. Doty and J. D. Show. No. 1,002,046; Aug. 29; Sp. p. 6096; Gaz. vol. 169; p. 1101.
Tire, Emergency-. C. M. Culp. No. 1,001,623; Aug. 29; Sp. p. 5169; Gaz. vol. 169; p. 958.
Tire-fastener. J. W. Farnoff. No. 981,182; Jan. 10; Sp. p. 2290; Gaz. vol. 162; p. 378.
Tire-filler. F. T. Roberts. No. 992,904; May 23; Sp. p. 4451; Gaz. vol. 166; p. 816.
Tire-fillers, Making. F. T. Roberts. No. 1,012,161; Dec. 19; Sp. p. 3973; Gaz. vol. 173; p. 686.
Tire, Flexible metallic. W. C. Nicholson. No. 994,651; June 6; Sp. p. 1156; Gaz. vol. 167; p. 190.
Tire for automobile-wheels, Cushioned. S. Gordon. No. 991,612; May 9; Sp. p. 1693; Gaz. vol. 166; p. 311.
Tire for automobile-wheels, &c., Emergency-. W. Budesheim and J. D. Stinchcomb. No. 1,010,014; Nov. 28; Sp. p. 5250; Gaz. vol. 172; p. 940.
Tire for motor-vehicles, Rubberless. G. W. Killin. No. 1,003,186; Sept. 12; Sp. p. 2206; Gaz. vol. 170; p. 379.

Alphabetical list of inventions—Continued.

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Tire for wheels, Elastic. C. A. Wheaton. No. 994,353; June 6; Sp. p. 517; Gaz. vol. 167; p. 89.
Tire for wheels, Pneumatic. H. N. Carragher. No. 1,007,064; Oct. 31; Sp. p. 5513; Gaz. vol. 171; p. 1018.
Tire-grip. A. F. Bergin. No. 1,000,662; Aug. 15; Sp. p. 3132; Gaz. vol. 169; p. 567.
Tire-grip. L. B. Gaylor. No. 1,001,633; Aug. 29; Sp. p. 5187; Gaz. vol. 169; p. 962.
Tire grip-tread, Vehicle-. C. J. Ohlsson. No. 991,013; May 2; Sp. p. 391; Gaz. vol. 166; p. 67.
Tire, Guarded-spring. L. P. Brotherton. No. 1,005,406; Oct. 10; Sp. p. 1818; Gaz. vol. 171; p. 324.
Tire-holder. W. F. Bright. No. 988,305; Apr. 4; Sp. p. 18; Gaz. vol. 165; p. 6.
Tire-holder. F. S. Garrett. No. 1,000,508; Aug. 15; Sp. p. 2761; Gaz. vol. 169; p. 511.
Tire-holder. F. S. Garrett. No. 1,001,632; Aug. 29; Sp. p. 5186; Gaz. vol. 169; p. 961.
Tire-holder. N. P. Sjoholm. No. 1,009,591; Nov. 21; Sp. p. 4369; Gaz. vol. 172; p. 753.
Tire holder, Spare-. A. L. Shutter. No. 1,007,394; Oct. 31; Sp. p. 6251; Gaz. vol. 171; p. 1137.
Tire, Inflated. A. J. Roussey. No. 999,402; Aug. 1; Sp. p. 417; Gaz. vol. 169; p. 74.
Tire-inflater. E. Rector. No. 1,012,098; Dec. 19; Sp. p. 3840; Gaz. vol. 173; p. 664.
Tire-inflating device, Automobile. A. C. Danver. No. 1,011,121; Dec. 5; Sp. p. 1583; Gaz. vol. 173; p. 251.
Tire-inflating means, Pneumatic-. H. L. Corson. No. 993,655; May 30; Sp. p. 6086; Gaz. vol. 166; p. 1102.
Tire-inflation-testing appliance. E. A. Terpening. No. 984,453; Feb. 14; Sp. p. 2580; Gaz. vol. 163; p. 436.
Tire leak-alarm, Pneumatic-. E. J. F. Quirin. No. 983,837; Feb. 7; Sp. p. 1251; Gaz. vol. 163; p. 199.
Tire, Leather. R. J. Elledge. No. 993,159; May 23; Sp. p. 4993; Gaz. vol. 166; p. 903.
Tire, Mechanically-adjustable resilient. B. Dahl. No. 983,878; Feb. 14; Sp. p. 1358; Gaz. vol. 163; p. 244.
Tire, Metallic. J. B. Crawford and J. R. Milliken. No. 1,005,607; Oct. 10; Sp. p. 2291; Gaz. vol. 171; p. 394.
Tire-mold. J. W. Thropp. No. 983,785; Feb. 7; Sp. p. 1127; Gaz. vol. 163; p. 180.
Tire, Non-pneumatic elastic vehicle-. O. Grenier. No. 1,005,962; Oct. 17; Sp. p. 3070; Gaz. vol. 171; p. 551.
Tire-patch. G. J. Martel. No. 985,532; Feb. 28; Sp. p. 4958; Gaz. vol. 163; p. 877.
Tire-patching device. G. J. Martel. No. 1,003,002; Sept. 12; Sp. p. 1824; Gaz. vol. 170; p. 316.
Tire-patching device. G. J. Martel. No. 1,003,003; Sept. 12; Sp. p. 1825; Gaz. vol. 170; p. 316.
Tire-plug. G. A. E. Kaul. No. 1,000,524; Aug. 15; Sp. p. 2800; Gaz. vol. 169; p. 516.
Tire, Pneumatic. H. R. Krastel. No. 981,091; Jan. 10; Sp. p. 2091; Gaz. vol. 162; p. 345.
Tire, Pneumatic. J. MacDonnell. No. 981,208; Jan. 10; Sp. p. 2344; Gaz. vol. 162; p. 387.
Tire, Pneumatic. A. Hormel. No. 984,672; Feb. 21; Sp. p. 3083; Gaz. vol. 163; p. 546.
Tire, Pneumatic. P. E. Doolittle. No. 990,965; May 2; Sp. p. 293; Gaz. vol. 166; p. 51.
Tire, Pneumatic. F. A. Macon. No. 997,398; July 11; Sp. p. 1672; Gaz. vol. 168; p. 303.
Tire, Pneumatic. T. Dunn. No. 997,443; July 11; Sp. p. 1756; Gaz. vol. 168; p. 318.
Tire, Pneumatic. M. A. Dees. No. 999,302; Aug. 1; Sp. p. 209; Gaz. vol. 169; p. 39.
Tire, Pneumatic. C. E. Brower. No. 1,000,069; Aug. 8; Sp. p. 1778; Gaz. vol. 169; p. 328.
Tire, Pneumatic. A. Bernier. No. 1,002,214; Sept. 5; Sp. p. 39; Gaz. vol. 170; p. 4.
Tire, Pneumatic. J. C. Barker. No. 1,004,343; Sept. 26; Sp. p. 4743; Gaz. vol. 170; p. 839.
Tire, Pneumatic. R. B. Gray. No. 1,005,960; Oct. 17; Sp. p. 3061; Gaz. vol. 171; p. 550.
Tire, Pneumatic. W. E. Andrew. No. 1,008,772; Nov. 14; Sp. p. 2592; Gaz. vol. 172; p. 435.
Tire, Pneumatic. J. W. and E. H. Haase. No. 1,009,966; Nov. 28; Sp. p. 5127; Gaz. vol. 172; p. 924.
Tire, Pneumatic. J. G. A. Kitchen and I. H. Storey. No. 1,011,305; Dec. 12; Sp. p. 2047; Gaz. vol. 173; p. 352.
Tire, Pneumatic. W. A. McCool. No. 1,011,471; Dec. 12; Sp. p. 2405; Gaz. vol. 173; p. 411.
Tire, Pneumatic. J. G. A. Kitchen and I. H. Storey. No. 1,011,901; Dec. 19; Sp. p. 3387; Gaz. vol. 173; p. 594.
Tire, Pneumatic rubber. C. E. Eckrode. No. 999,157; July 25; Sp. p. 5573; Gaz. vol. 168; p. 991.
Tire, Pneumatic vehicle-. G. Lambright. No. 996,351; June 27; Sp. p. 4967; Gaz. vol. 167; p. 875.
Tire-protecting armor, Pneumatic-. W. R. Malcolm. No. 987,733; Mar. 28; Sp. p. 4178; Gaz. vol. 164; p. 763.
Tire-protective rivet. E. B. Stimpson. No. 984,500; Feb. 14; Sp. p. 2687; Gaz. vol. 163; p. 451.
Tire-protector. R. M. Halliday. No. 981,640; Jan. 17; Sp. p. 3285; Gaz. vol. 162; p. 558.
Tire-protector. R. G. Hartle. No. 990,046; Apr. 18; Sp. p. 3761; Gaz. vol. 165; p. 650.
Tire-protector. H. A. Mielke. No. 991,003; May 2; Sp. p. 373; Gaz. vol. 166; p. 64.
Tire-protector. J. F. Collins. No. 995,119; June 13; Sp. p. 2234; Gaz. vol. 167; p. 388.
Tire-protector. E. C. Hoelsche. No. 996,247; June 27; Sp. p. 4715; Gaz. vol. 167; p. 839.
Tire-protector. M. J. Frambach and A. R. Corrington. No. 1,001,518; Aug. 22; Sp. p. 4941; Gaz. vol. 169; p. 892.
Tire-protector. J. I. Hall. No. 1,003,356; Sept. 12; Sp. p. 2563; Gaz. vol. 170; p. 441.
Tire-protector. C. R. Ragsdale. No. 1,005,873; Oct. 17; Sp. p. 2856; Gaz. vol. 171; p. 519.
Tire-protector. R. Aue. No. 1,006,712; Oct. 24; Sp. p. 4731; Gaz. vol. 171; p. 843.
Tire-protector. D. N. Jones. No. 1,007,874; Nov. 7; Sp. p. 525; Gaz. vol. 172; p. 79.
Tire-protector. G. C. Cross. No. 1,009,051; Nov. 21; Sp. p. 3176; Gaz. vol. 172; p. 563.
Tire-protector. J. O. Caldwell, Jr. No. 1,012,325; Dec. 19; Sp. p. 4323; Gaz. vol. 173; p. 742.
Tire-protector. J. C. Hammer. No. 1,012,353; Dec. 19; Sp. p. 4387; Gaz. vol. 173; p. 751.
Tire-protector, Automobile. A. A. Oilar. No. 993,710; May 30; Sp. p. 6208; Gaz. vol. 166; p. 1122.
Tire protector, Pneumatic-. D. B. Stevenson. No. 994,210; June 6; Sp. p. 230; Gaz. vol. 167; p. 39.
Tire protector, Pneumatic-. E. T. Clark. No. 997,752; July 11; Sp. p. 2443; Gaz. vol. 168; p. 426.
Tire-protector, Storage. B. S. Wescott. No. 981,047; Jan. 10; Sp. p. 1997; Gaz. vol. 162; p. 330.
Tire-protector, Vehicle. C. Scott. No. 1,003,815; Sept. 19; Sp. p. 3537; Gaz. vol. 170; p. 629.
Tire-puncture-closing device, Pneumatic-. A. Smith. No. 998,413; July 18; Sp. p. 3959; Gaz. vol. 168; p. 701.
Tire, Puncture-proof. T. M. Eynon. No. 986,049; Mar. 7; Sp. p. 630; Gaz. vol. 164; p. 101.
Tire, Puncture-proof. T. M. Eynon. No. 986,050; Mar. 7; Sp. p. 632; Gaz. vol. 164; p. 102.
Tire, Puncture-proof. W. W. Lower. No. 1,010,061; Nov. 28; Sp. p. 5336; Gaz. vol. 172; p. 957.
Tire, Quick-detachable wheel-. L. H. Lamkin. No. 991,328; May 2; Sp. p. 1081; Gaz. vol. 166; p. 180.
Tire, Reinforced puncture-proof. J. Anthony. No. 1,003,314; Sept. 12; Sp. p. 2475; Gaz. vol. 170; p. 426.
Tire-remover. S. C. Plant. No. 990,387; Apr. 25; Sp. p. 4534; Gaz. vol. 165; p. 800.
Tire-removing apparatus. J. Lassale. No. 985,683; Feb. 28; Sp. p. 5258; Gaz. vol. 163; p. 928.
Tire repair-patch, Pneumatic-. G. J. Martel. No. 1,003,004; Sept. 12; Sp. p. 1827; Gaz. vol. 170; p. 316.
Tire, Resilient. H. M., T. J., W. J., and H. N. Deeth. No. 983,270; Feb. 7; Sp. p. 21; Gaz. vol. 163; p. 6.
Tire, Resilient. C. A. Fox. No. 988,085; Mar. 28; Sp. p. 4984; Gaz. vol. 164; p. 884.
Tire, Resilient. J. G. A. Kitchen. No. 993,306; May 23; Sp. p. 5285; Gaz. vol. 166; p. 948.
Tire, Resilient. G. W. Rowell. No. 995,573; June 20; Sp. p. 3229; Gaz. vol. 167; p. 571.
Tire, Resilient. J. Thissen. No. 996,299; June 27; Sp. p. 4830; Gaz. vol. 167; p. 856.
Tire, Resilient. A. A. Curry. No. 996,839; July 4; Sp. p. 486; Gaz. vol. 168; p. 81.
Tire, Resilient. R. A. Falkenberg. No. 1,004,003; Sept. 26; Sp. p. 3989; Gaz. vol. 170; p. 722.
Tire, Resilient. C. W. Blake. No. 1,008,110; Nov. 7; Sp. p. 995; Gaz. vol. 172; p. 160.
Tire, Resilient. C. W. Blake. No. 1,008,111; Nov. 7; Sp. p. 997; Gaz. vol. 172; p. 161.
Tire, Resilient. J. Hart. No. 1,008,819; Nov. 14; Sp. p. 2680; Gaz. vol. 172; p. 450.
Tire, Resilient vehicle-. W. H. Clark. No. 995,115; June 13; Sp. p. 2225; Gaz. vol. 167; p. 387.
Tire-rim. F. M. Miller and A. F. Steyer. No. 988,890; Apr. 4; Sp. p. 1260; Gaz. vol. 165; p. 201.
Tire-rim, Automobile. G. H. Bogenhagen. No. 984,186; Feb. 14; Sp. p. 2008; Gaz. vol. 163; p. 345.
Tire-rim, Demountable. B. C. Ball. No. 999,086; July 25; Sp. p. 5448; Gaz. vol. 168; p. 969.
Tire rim, Pneumatic-. S. C. Force. No. 1,004,639; Oct. 3; Sp. p. 193; Gaz. vol. 171; p. 34.
Tire-rims, Forming. B. C. Ball. No. 999,085; July 25; Sp. p. 5447; Gaz. vol. 168; p. 969.
Tire, Rubber. P. Ernenwein. No. 992,177; May 16; Sp. p. 2857; Gaz. vol. 166; p. 532.
Tire, Rubber. G. H. Gillette. No. 1,004,642; Oct. 3; Sp. p. 198; Gaz. vol. 171; p. 35.
Tire-saver. L. Willour. No. 987,523; Mar. 21; Sp. p. 3705; Gaz. vol. 164; p. 662.
Tire-saver. L. Willour. No. 995,583; June 20; Sp. p. 3253; Gaz. vol. 167; p. 575.
Tire-seating rim for motor-car or other vehicle wheels, Demountable resilient-. J. G. and J. G. Hodgson, Jr. No. 981,594; Jan. 10; Sp. p. 3187; Gaz. vol. 162; p. 520.
Tire-seating rim for vehicle-wheels, Resilient-. J. G. Hodgson. No. 996,246; June 27; Sp. p. 4714; Gaz. vol. 167; p. 839.
Tire, Sectional vehicle-. A. H. Peloubet. No. 991,744; May 9; Sp. p. 1971; Gaz. vol. 166; p. 354.

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Tire-setter. B. E. Martin. No. 984,382; Feb. 14; Sp. p. 2442; Gaz. vol. 163; p. 413.
Tire-setter. B. F. Hobson. No. 993,995; May 30; Sp. p. 6776; Gaz. vol. 166; p. 1217.
Tire-setting machine. H. M. Lourie. No. 989,913; Apr. 18; Sp. p. 3475; Gaz. vol. 165; p. 604.
Tire-shield. J. W. Downes. No. 999,760; Aug. 8; Sp. p. 1125; Gaz. vol. 169; p. 223.
Tire-shield, Vehicle. J. E. Joslen. No. 986,007; Mar. 7; Sp. p. 547; Gaz. vol. 164; p. 87.
Tire-shoe. R. Rowley and J. J. Coomber. No. 991,894; May 9; Sp. p. 2271; Gaz. vol. 166; p. 405.
Tire-shoe. C. A. Whyland. No. 1,012,951; Dec. 26; Sp. p. 5708; Gaz. vol. 173; p. 1001.
Tire-shoe-building apparatus. R. Rowley and J. J. Coomber. No. 991,458; May 2; Sp. p. 1347; Gaz. vol. 166; p. 223.
Tire-shoe, Vehicle. T. F. Baldwin. No. 986,670; Mar. 14; Sp. p. 1942; Gaz. vol. 164; p. 342.
Tire shoes, Core for manufacturing pneumatic-. W. S. Doll. No. 983,354; Feb. 7; Sp. p. 206; Gaz. vol. 163; p. 36.
Tire-signal, Low-pressure. J. M. Collins. No. 1,010,726; Dec. 5; Sp. p. 726; Gaz. vol. 173; p. 114.
Tire-sleeve. A. E. Berg. No. 982,465; Jan. 24; Sp. p. 5071; Gaz. vol. 162; p. 875.
Tire, Spring-. P. J. Peterson. No. 993,711; May 30; Sp. p. 6210; Gaz. vol. 166; p. 1122.
Tire, Spring-. J. A. Waters. No. 997,223; July 4; Sp. p. 1316; Gaz. vol. 168; p. 214.
Tire, Spring-. J. P. Kopetka. No. 997,834; July 11; Sp. p. 2638; Gaz. vol. 168; p. 454.
Tire, Spring-. H. Pierce. No. 998,798; July 25; Sp. p. 4802; Gaz. vol. 168; p. 868.
Tire, Spring-. J. W. Graham. No. 1,000,796; Aug. 15; Sp. p. 3416; Gaz. vol. 169; p. 614.
Tire, Spring-. J. M. Keller. No. 1,004,658; Oct. 3; Sp. p. 228; Gaz. vol. 171; p. 40.
Tire, Spring vehicle-. E. Hess. No. 989,973; Apr. 18; Sp. p. 3613; Gaz. vol. 165; p. 626.
Tire, Steel. C. J. Simonson and T. Fagervik. No. 1,002,003; Aug. 29; Sp. p. 6012; Gaz. vol. 169; p. 1088.
Tire-support, Adjustable. E. W. Kingsley. No. 994,644; June 6; Sp. p. 1147; Gaz. vol. 167; p. 188.
Tire-support and tool-case, Combined. J. C. Temple. No. 1,008,680; Nov. 14; Sp. p. 2389; Gaz. vol. 172; p. 403.
Tire-tightener. F. F. Slay and S. M. Henry. No. 985,073; Feb. 21; Sp. p. 3880; Gaz. vol. 163; p. 685.
Tire-tool. J. L. Butler. No. 1,007,640; Oct. 31; Sp. p. 6788; Gaz. vol. 171; p. 1220.
Tire-tool. C. Owen, W. W. Heckethorn, and S. W. Cole. No. 1,008,430; Nov. 14; Sp. p. 1805; Gaz. vol. 172; p. 314.
Tire-tool. P. J. Nolan. No. 1,009,781; Nov. 28; Sp. p. 4761; Gaz. vol. 172; p. 862.
Tire-tool, Automobile. G. A. Morris. No. 1,001,670; Aug. 29; Sp. p. 5275; Gaz. vol. 169; p. 975.
Tire-tread. N. J. Busby. No. 993,222; May 23; Sp. p. 5120; Gaz. vol. 166; p. 923.
Tire-treads, Machine for forming automobile. W. H. Crook. No. 981,981; Jan. 17; Sp. p. 4057; Gaz. vol. 162; p. 676.
Tire-valve. W. W. Potter. No. 1,004,464; Sept. 26; Sp. p. 5005; Gaz. vol. 170; p. 880.
Tire valve, Pneumatic-. W. C. Wetherholt. No. 1,006,159; Oct. 17; Sp. p. 3494; Gaz. vol. 171; p. 620.
Tire, Vehicle-. J. Corwin. No. 981,618; Jan. 17; Sp. p. 3244; Gaz. vol. 162; p. 551.
Tire, Vehicle-. E. C. Bruen. No. 987,668; Mar. 21; Sp. p. 4004; Gaz. vol. 164; p. 713.
Tire, Vehicle-. J. G. Funk. No. 988,997; Apr. 11; Sp. p. 1491; Gaz. vol. 165; p. 261.
Tire, Vehicle-. A. P. Burrus. No. 989,332; Apr. 11; Sp. p. 2209; Gaz. vol. 165; p. 375.
Tire, Vehicle-. M. A. Phillips. No. 992,052; May 9; Sp. p. 2572; Gaz. vol. 166; p. 458.
Tire, Vehicle-. J. W. Gilliam. No. 994,309; June 6; Sp. p. 420; Gaz. vol. 167; p. 72.
Tire, Vehicle-. J. Thomsen. No. 995,738; June 20; Sp. p. 3593; Gaz. vol. 167; p. 630.
Tire, Vehicle-. E. Siegel and M. J. Cantor. No. 998,127; July 18; Sp. p. 3820; Gaz. vol. 168; p. 599.
Tire, Vehicle-. J. W. Driscoll. No. 998,476; July 18; Sp. p. 4075; Gaz. vol. 168; p. 723.
Tire, Vehicle-. F. H. Holton. No. 1,000,000; Aug. 8; Sp. p. 1618; Gaz. vol. 169; p. 304.
Tire, Vehicle-. J. B. Fischer. No. 1,000,165; Aug. 8; Sp. p. 2011; Gaz. vol. 169; p. 360.
Tire, Vehicle-. W. R. Barbour. No. 1,001,237; Aug. 22; Sp. p. 4388; Gaz. vol. 169; p. 798.
Tire, Vehicle-. A. H. Marks. No. 1,001,663; Aug. 29; Sp. p. 5257; Gaz. vol. 169; p. 973.
Tire, Vehicle-. W. H. Mahlow. No. 1,003,280; Sept. 12; Sp. p. 2407; Gaz. vol. 170; p. 414.
Tire, Vehicle-. P. G. Seward. No. 1,004,480; Sept. 26; Sp. p. 5036; Gaz. vol. 170; p. 886.
Tire, Vehicle-. P. G. Seward. No. 1,004,481; Sept. 26; Sp. p. 5037; Gaz. vol. 170; p. 887.
Tire, Vehicle-. M. J. Cantor and E. Siegel. No. 1,004,626; Oct. 3; Sp. p. 168; Gaz. vol. 171; p. 29.
Tire, Vehicle-. S. H. Gilson. No. 1,004,867; Oct. 3; Sp. p. 695; Gaz. vol. 171; p. 113.
Tire, Vehicle-. F. A. Schultz. No. 1,006,295; Oct. 17; Sp. p. 3815; Gaz. vol. 171; p. 668.
Tire, Vehicle-. H. Wilson and C. Guder. No. 1,007,018; Oct. 24; Sp. p. 5411; Gaz. vol. 171; p. 949.
Tire, Vehicle-. E. Tallman. No. 1,010,980; Dec. 5; Sp. p. 1279; Gaz. vol. 173; p. 203.
Tire, Vehicle-. A. Beldam. No. 1,011,013; Dec. 5; Sp. p. 1340; Gaz. vol. 173; p. 213.
Tire, Vehicle-. W. J. Cunningham. No. 1,012,331; Dec. 19; Sp. p. 4343; Gaz. vol. 173; p. 744.
Tire, Vehicle-. A. L. Siegrist. No. 1,012,459; Dec. 19; Sp. p. 4583; Gaz. vol. 173; p. 785.
Tire, Vehicle wheel-. C. G. Deming. No. 983,880; Feb. 14; Sp. p. 1361; Gaz. vol. 163; p. 245.
Tire, Vehicle wheel-. L. A. Coleman. No. 985,397; Feb. 28; Sp. p. 4623; Gaz. vol. 163; p. 829.
Tire, Vehicle wheel-. E. B. Killen. No. 988,640; Apr. 4; Sp. p. 756; Gaz. vol. 165; p. 120.
Tire, Vehicle wheel-. A. T. Scaramuzzi. No. 989,431; Apr. 11; Sp. p. 2416; Gaz. vol. 165; p. 407.
Tire, Vehicle wheel-. H. Mulholland. No. 990,664; Apr. 25; Sp. p. 5160; Gaz. vol. 165; p. 895.
Tire, Vehicle wheel-. M. Clark. No. 990,956; May 2; Sp. p. 278; Gaz. vol. 166; p. 48.
Tire, Vehicle wheel. M. B. Carmody. No. 993,957; May 30; Sp. p. 6694; Gaz. vol. 166; p. 1204.
Tire, Vehicle wheel-. J. B. Barnes. No. 998,668; July 25; Sp. p. 4508; Gaz. vol. 168; p. 822.
Tire, Vehicle wheel-. S. Heinrich. No. 998,956; July 25; Sp. p. 5199; Gaz. vol. 168; p. 928.
Tire, Vehicle wheel-. W. D. McNaull. No. 1,004,582; Oct. 3; Sp. p. 68; Gaz. vol. 171; p. 13.
Tire, Vehicle wheel-. W. T. Whitlock. No. 1,013,085; Dec. 26; Sp. p. 5985; Gaz. vol. 173; p. 1047.
Tire-vulcanizer, Electric. F. F. Schwentker. No. 1,011,860; Dec. 12; Sp. p. 3276; Gaz. vol. 173; p. 545.
Tire, Wheel-. J. D. Marvil. No. 980,808; Jan. 3; Sp. p. 1346; Gaz. vol. 162; p. 216.
Tire, Wheel-. J. D. Marvil. No. 999,511; Aug. 1; Sp. p. 628; Gaz. vol. 169; p. 108.
Tire, Wheel-. F. Dowd. No. 1,002,654; Sept. 5; Sp. p. 1048; Gaz. vol. 170; p. 156.
Tire, Wheel-. F. Gallagher. No. 1,006,376; Oct. 17; Sp. p. 3991; Gaz. vol. 171; p. 695.
Tire, Wheel-. D. Ronconi. No. 1008,284; Nov. 7; Sp. p. 1379; Gaz. vol. 172; p. 224.
Tire, Wheel-. F. Vitali. No. 1,010,539; Dec. 5; Sp. p. 306; Gaz. vol. 173; p. 48.
Tire, Wheel-. J. B. Beam. No. 1,012,186; Dec. 19; Sp. p. 4029; Gaz. vol. 173, p. 694.
Tire-wrapping machine. A. De Laski and P. D. Thropp. No. 1,011,450; Dec. 12; Sp. p. 2349; Gaz. vol. 173; p. 402.
Tires, Air-tight valve for pneumatic. M. Levrant. No. 999,506; Aug. 1; Sp. p. 616; Gaz. vol. 169; p. 107.
Tires, Air-valve for pneumatic. F. M. Neal. No. 1,012,898; Dec. 26; Sp. p. 5569; Gaz. vol. 173; p. 982.
Tires, Apparatus for forming figured threads on. L. P. Destribats. No. 1,007,434; Oct. 31; Sp. p. 6339; Gaz. vol. 171; p. 1151.
Tires, Automatic valve for pneumatic. H. W. and W. M. Brink. No. 1,005,149; Oct. 10; Sp. p. 1228; Gaz. vol. 171; p. 230.
Tires, Combination pressure-gage and pump connection for pneumatic. D. Barnard. No. 986,672; Mar. 14; Sp. p. 1944; Gaz. vol. 164; p. 343.
Tires, Core for molding. F. S. Stiles and J. Yemiker. No. 995,732; June 20; Sp. p. 3576; Gaz. vol. 167; p. 628.
Tires, Filling hollow. W. H. Goodfellow. No. 993,054; May 23; Sp. p. 4777; Gaz. vol. 166; p. 869.
Tires, Machine for manufacturing pneumatic. A. Mathern. No. 1,009,765; Nov. 28; Sp. p. 4732; Gaz. vol. 172; p. 857.
Tires, Manufacturing vehicle-. J. Huebner. No. 1,009,752; Nov. 28; Sp. p. 4700; Gaz. vol. 172; p. 852.
Tires, Mechanism for manufacturing pneumatic. T. Sloper. No. 983,408; Feb. 7; Sp. p. 319; Gaz. vol. 163; p. 54.
Tires, Metal rim for vehicle-. J. C. Cole. No. 987,216; Mar. 21; Sp. p. 3081; Gaz. vol. 164; p. 558.
Tires of vehicle-wheels, Apparatus for inflating. F. Kassner. No. 1,008,646; Nov. 14; Sp. p. 2320; Gaz. vol. 172; p. 392.
Tires, Outer cover of pneumatic. J. C. Barker. No. 1,004,344; Sept. 26; Sp. p. 4744; Gaz. vol. 170; p. 839.
Tires, Protection and antiskidding armor for pneumatic. C. Reichel. No. 1,012,159; Dec. 19; Sp. p. 3971; Gaz. vol. 173; p. 685.
Tires, Repairing-patch and repairing material for pneumatic. F. Woodgates and T. W. Jourdan. No. 995,106; June 13; Sp. p. 2212; Gaz. vol. 167; p. 385.
Tires, Safety-valve for pneumatic. B. Burkett. No. 1,004,986; Oct. 3; Sp. p. 926; Gaz. vol. 171; p. 154.
Tires to the rims of wheels, Means for securing pneumatic and other. E. Owen. No. 981,792; Jan. 17; Sp. p. 3593; Gaz. vol. 162; p. 610.
Tires to wheel-rims, Device for securing. A. L. Cadé. No. 982,573; Jan. 24; Sp. p. 5275; Gaz. vol. 162; p. 910.

Alphabetical list of inventions—Continued.

Tires, Valve-base for pneumatic. G. W. Greene. No. 995,961; June 20; Sp. p. 4064; Gaz. vol. 167; p. 707.
Tires, Vulcanizing device for rubber. W. C. and M. W. Risbridger. No. 997,853; July 11; Sp. p. 2676; Gaz. vol. 168; p. 460.
Tires, Vulcanizing-mold for rubber. A. M. Scheurle and J. M. Stine. No. 997,212; July 4; Sp. p. 1296; Gaz. vol. 168; p. 211.
Tissues, Machine for the manufacture of artificial. C. Baj. No. 995,652; June 20; Sp. p. 3407; Gaz. vol. 167; p. 600.
Titanium and nickel alloyed together and producing the same, Article composed of. A. J. Rossi. No. 1,003,806; Sept. 19; Sp. p. 3522; Gaz. vol. 170; p. 626.
Toaster. H. P. Knoblock. No. 1,011,813; Dec. 12; Sp. p. 3172; Gaz. vol. 173; p. 530.
Toaster and griddle, Electric. H. B. Gale. No. 992,417; May 16; Sp. p. 3423; Gaz. vol. 166; p. 617.
Toaster, Bread-. A. Guissart and E. Barbe. No. 996,082; June 27; Sp. p. 4325; Gaz. vol. 167; p. 784.
Tobacco and like packing machine. H. M. Smitt. No. 997,712; July 11; Sp. p. 2317; Gaz. vol. 168; p. 410.
Tobacco-barn. G. Kretzschmar. No. 990,749; Apr. 25; Sp. p. 5351; Gaz. vol. 165; p. 923.
Tobacco-barn implement. E. S. Clark. No. 1,006,721; Oct. 24; Sp. p. 4746; Gaz. vol. 171; p. 846.
Tobacco-box. K. Albert. No. 997,593; July 11; Sp. p. 2060; Gaz. vol. 168; p. 368.
Tobacco can and receptacle. F. Lewitz. No. 981,293; Jan. 10; Sp. p. 2562; Gaz. vol. 162; p. 417.
Tobacco-cartridge maker and tobacco-pipe filler. A. Falk. No. 981,252; Jan. 10; Sp. p. 2484; Gaz. vol. 162; p. 404.
Tobacco-caser. J. C. Brann. No. 1,004,624; Oct. 3; Sp. p. 165; Gaz. vol. 171; p. 28.
Tobacco-cutting machine. A. H. Anstey. No. 997,595; July 11; Sp. p. 2062; Gaz. vol. 168; p. 369.
Tobacco-feeding device. L. A. Clément. No. 991,277; May 2; Sp. p. 967; Gaz. vol. 166; p. 163.
Tobacco-flavoring compound. J. A. Ashburn. No. 981,605; Jan. 17; Sp. p. 3218; Gaz. vol. 162; p. 546.
Tobacco-leaf-stringing machine. A. W. Olds. No. 980,430; Jan. 3; Sp. p. 518; Gaz. vol. 162; p. 88.
Tobacco-moistening device. F. W. Henschel. No. 991,301; May 2; Sp. p. 1020; Gaz. vol. 166; p. 171.
Tobacco packing and shipping box, Leaf-. F. L. Short and A. J. Rieth. No. 987,752; Mar. 28; Sp. p. 4211; Gaz. vol. 164; p. 769.
Tobacco-paper from pure tobacco-stems and product resulting therefrom, Manufacturing. F. Giordano. No. 999,986; Aug. 8; Sp. p. 1586; Gaz. vol. 169; p. 299.
Tobacco-pipe. H. G. Noble. No. 980,551; Jan. 3; Sp. p. 816; Gaz. vol. 162; p. 131.
Tobacco-pipe. W. H. Bray. No. 981,369; Jan. 10; Sp. p. 2733; Gaz. vol. 162; p. 444.
Tobacco-pipe. J. F. Meloun and M. McCune. No. 982,383; Jan. 24; Sp. p. 4882; Gaz. vol. 162; p. 845.
Tobacco-pipe. M. Loewenstein. No. 983,152; Jan. 31; Sp. p. 6510; Gaz. vol. 162; p. 1132.
Tobacco-pipe. F. H. Bush. No. 986,436; Mar. 14; Sp. p. 1441; Gaz. vol. 164; p. 260.
Tobacco-pipe. J. R. Perry. No. 987,822; Mar. 28; Sp. p. 4359; Gaz. vol. 164; p. 793.
Tobacco-pipe. J. R. Perry. No. 987,824; Mar. 28; Sp. p. 4363; Gaz. vol. 164; p. 794.
Tobacco-pipe. D. Payton. No. 988,023; Mar. 28; Sp. p. 4851; Gaz. vol. 164; p. 863.
Tobacco-pipe. W. A. Pratt. No. 989,639; Apr. 18; Sp. p. 2896; Gaz. vol. 165; p. 511.
Tobacco-pipe. H. Hamper. No. 995,456; June 20; Sp. p. 2966; Gaz. vol. 167; p. 529.
Tobacco-pipe. L. Demuth. No. 996,006; June 20; Sp. p. 4148; Gaz. vol. 167; p. 722.
Tobacco-pipe. J. Allen. No. 997,357; July 11; Sp. p. 1604; Gaz. vol. 168; p. 291.
Tobacco-pipe. J. de Meza. No. 999,120; July 25; Sp. p. 5501; Gaz. vol. 168; p. 979.
Tobacco-pipe. G. Knochenhauer and C. Beuthe. No. 1,001,414; Aug. 22; Sp. p. 4771; Gaz. vol. 169; p. 859.
Tobacco-pipe. B. J. Such. No. 1,001,785; Aug. 29; Sp. p. 5524; Gaz. vol. 169; p. 1014.
Tobacco-pipe. W. T. Kline. No. 1,003,914; Sept. 19; Sp. p. 3725; Gaz. vol. 170; p. 664.
Tobacco-pipe. E. Gilbert. No. 1,006,648; Oct. 24; Sp. p. 4613; Gaz. vol. 171; p. 822.
Tobacco-pipe. T. W. Salusbury. No. 1,009,792; Nov. 28; Sp. p. 4784; Gaz. vol. 172; p. 866.
Tobacco-pipe. L. J. Rossiter. No. 1,009,860; Nov. 28; Sp. p. 4923; Gaz. vol. 172; p. 889.
Tobacco-pipe. C. D. Hill. No. 1,012,548; Dec. 19; Sp. p. 4762; Gaz. vol. 173; p. 817.
Tobacco-pipe. H. W. Jacobs. No. 1,013,019; Dec. 26; Sp. p. 5850; Gaz. vol. 173; p. 1023.
Tobacco-pipe, Antinicotin. W. H. Wood. No. 984,335; Feb. 14; Sp. p. 2349; Gaz. vol. 163; p. 397.
Tobacco-pipe attachment. E. H. Ziebarth. No. 1,000,569; Aug. 15; Sp. p. 2913; Gaz. vol. 169; p. 534.
Tobacco-pipe cartridge and device for inserting the same. P. A. Drucklieb. No. 997,974; July 18; Sp. p. 2966; Gaz. vol. 168; p. 544.
Tobacco-pipe, Sanitary. S. G. Penney. No. 1,005,067; Oct. 3; Sp. p. 1072; Gaz. vol. 171; p. 180.
Tobacco-pipe stem. W. C. Bastian. No. 980,476; Jan. 3; Sp. p. 641; Gaz. vol. 162; p. 106.
Tobacco-pipe strainer. L. H. Westcott. No. 1,004,322; Sept. 26; Sp. p. 4707; Gaz. vol. 170; p. 832.
Tobacco-plug cutter. H. C. Izor. No. 990,272; Apr. 25; Sp. p. 4250; Gaz. vol. 165; p. 759.
Tobacco-press. D. Eagleson. No. 1,002,975; Sept. 12; Sp. p. 1771; Gaz. vol. 170; p. 307.
Tobacco-receptacle. H. Berg. No. 1,001,242; Aug. 22; Sp. p. 4395; Gaz. vol. 169; p. 799.
Tobacco, Removing nicotin from. J. Sartig. No. 999,674; Aug. 1; Sp. p. 942; Gaz. vol. 169; p. 165.
Tobacco-smoking pipe. W. G. Watts, J. L. Brusse, and F. E. Tiedemann. No. 997,164; July 4; Sp. p. 1205; Gaz. vol. 168; p. 194.
Tobacco-smoking pipe. S. E. Creasey. No. 1,005,104; Oct. 3; Sp. p. 1135; Gaz. vol. 171; p. 192.
Tobacco-stripper. W. F. Ganzer. No. 998,492; July 18; Sp. p. 4109; Gaz. vol. 168; p. 728.
Tobacco-stripper. F. Salomon. No. 1,003,951; Sept. 19; Sp. p. 3861; Gaz. vol. 170; p. 678.
Tobacco stripping and booking machine. M. and E. M. Deiller. No. 985,984; Mar. 7; Sp. p. 497; Gaz. vol. 164; p. 79.
Tobacco-treating compound. G. Bercy. No. 996,830; July 4; Sp. p. 470; Gaz. vol. 168; p. 78.
Toboggan-slide, Mechanical. W. F. Mangels. No. 997,071; July 4; Sp. p. 1014; Gaz. vol. 168; p. 162.
Toe-calk. W. J. Kent. No. 1,012,364; Dec. 19; Sp. p. 4409; Gaz. vol. 173; p. 754.
Toe-calks, Machine for making. W. J. Kent. No. 1,001,862; Aug. 29; Sp. p. 5689; Gaz. vol. 169; p. 1041.
Toe, Molded box-. J. W. Harney. No. 991,299; May 2; Sp. p. 1013; Gaz. vol. 166; p. 170.
Toe or boot clip for the pedals of cycles and the like. R. Wineberg. No. 990,090; Apr. 18; Sp. p. 3838; Gaz. vol. 165; p. 665.
Toggle. M. Theimer. No. 998,431; July 18; Sp. p. 3991; Gaz. vol. 168; p. 708.
Toggle-bolt. C. J. Clements. No. 991,426; May 2; Sp. p. 1272; Gaz. vol. 166; p. 213.
Toggle-bolt. C. J. Clements. No. 991,427; May 2; Sp. p. 1274; Gaz. vol. 166; p. 213.
Toilet. M. E. Connelly. No. 987,112; Mar. 21; Sp. p. 2817; Gaz. vol. 164; p. 519.
Toilet-case-holding device. W. Hughes. No. 996,766; July 4; Sp. p. 336; Gaz. vol. 168; p. 57.
Toilet-pad. J. M. G. Darms. No. 992,173; May 16; Sp. p. 2853; Gaz. vol. 166; p. 531.
Toilet, Sanitary. M. B. Rosenstock. No. 1,005,075; Oct. 3; Sp. p. 1083; Gaz. vol. 171; p. 182.
Toilet-seat, Child's. M. L. Handy. No. 1,009,838; Nov. 28; Sp. p. 4884; Gaz. vol. 172; p. 882.
Tomb for receiving coffins. F. and J. Skowronski. No. 991,033; May 2; Sp. p. 429; Gaz. vol. 166; p. 74.
Tone-modifier. E. McLaren. No. 983,509; Feb. 7; Sp. p. 541; Gaz. vol. 163; p. 86.
Tongs. S. W. Lee. No. 990,994; May 2; Sp. p. 348; Gaz. vol. 166; p. 60.
Tongs. A. B. Jensen. No. 999,455; Aug. 1; Sp. p. 516; Gaz. vol. 169; p. 91.
Tongs. J. F. Loreman. No. 1,009,760; Nov. 28; Sp. p. 4722; Gaz. vol. 172; p. 855.
Tongs, Brick-. J. Deer. No. 1,008,589; Nov. 14; Sp. p. 2181; Gaz. vol. 172; p. 372.
Tongs, Casing-. W. Lewin. No. 1,008,654; Nov. 14; Sp. p. 2334; Gaz. vol. 172; p. 394.
Tongs, Cuspidor-. J. R. Easton. No. 982,354; Jan. 24; Sp. p. 4819; Gaz. vol. 162; p. 834.
Tongs, Electrical-fuse. A. M. Hubbard and C. H. Causey. No. 981,857; Jan. 17; Sp. p. 3747; Gaz. vol. 162; p. 633.
Tongs, Food-. W. H. Wheeler. No. 999,614; Aug. 1; Sp. p. 820; Gaz. vol. 169; p. 143.
Tongs, Log-loading. C. H. Kelley. No. 994,750; June 13; Sp. p. 1434; Gaz. vol. 167; p. 265.
Tongs, Pie-. G. Cooper. No. 985,569; Feb. 28; Sp. p. 5031; Gaz. vol. 163; p. 890.
Tongue-and-groove joint. T. E. Camp. No. 986,439; Mar. 14; Sp. p. 1448; Gaz. vol. 164; p. 261.
Tongue-support. J. W. Stahl. No. 1,008,749; Nov. 14; Sp. p. 2533; Gaz. vol. 172; p. 427.
Tongue support, Wagon-. J. Harridge. No. 980,943; Jan. 10; Sp. p. 1692; Gaz. vol. 162; p. 293.
Tongue-supporting device. T. I. Loudermilk. No. 991,332; May 2; Sp. p. 1086; Gaz. vol. 166; p. 181.
Tongue, Switch-. E. Wadsack. No. 1,006,153; Oct. 17; Sp. p. 3482; Gaz. vol. 171; p. 618.
Tongues, Runner for draft-. O. Jennings. No. 996,251; June 27; Sp. p. 4722; Gaz. vol. 167; p. 840.
Tonsorial apparatus. W. J. Citron. No. 1,004,849; Oct. 3; Sp. p. 655; Gaz. vol. 171; p. 107.
Tool. H. L. Owen. No. 981,220; Jan. 10; Sp. p. 2418; Gaz. vol. 162; p. 391.
Tool. H. T. Montgomery. No. 981,786; Jan. 17; Sp. p. 3583; Gaz. vol. 162; p. 608.
Tool. J. R. Morris. No. 986,419; Mar. 7; Sp. p. 1392; Gaz. vol. 164; p. 225.
Tool. W. J. Strealy. No. 993,207; May 23; Sp. p. 5094; Gaz. vol. 166; p. 918.

Alphabetical list of inventions—Continued.

Tool. P. E. Doolittle. No. 1,005,815; Oct. 17; Sp. p. 2721; Gaz. vol. 171; p. 498.
Tool. E. M. Hibbler. No. 1,005,834; Oct. 17; Sp. p. 2771; Gaz. vol. 171; p. 505.
Tool. F. A. Hek. No. 1,011,343; Dec. 12; Sp. p. 2142; Gaz. vol. 173; p. 366.
Tool. J. C. Owens. No. 1,012,148; Dec. 19; Sp. p. 3946; Gaz. vol. 173; p. 682.
Tool and implement, Hand-operated. J. H. Franklin. No. 988,869; Apr. 4; Sp. p. 1219; Gaz. vol. 165; p. 195.
Tool and tool-holder. H. Morris. No. 981,587; Jan. 10; Sp. p. 3176; Gaz. vol. 162; p. 518.
Tool-box and gas-tank holder, Combination. J. G. Perrin. No. 1,004,587; Oct. 3; Sp. p. 78; Gaz. vol. 171; p. 15.
Tool-box, Metal. W. H. and J. H. Sells. No. 1,001,086; Aug. 22; Sp. p. 4093; Gaz. vol. 169; p. 750.
Tool-clamp. C. W. Beck. No. 993,642; May 30; Sp. p. 6040; Gaz. vol. 166; p. 1097.
Tool, Combination-. J. Jenks. No. 981,278; Jan. 10; Sp. p. 2533; Gaz. vol. 162; p. 413.
Tool, Combination-. F. Hendrickson. No. 986,001; Mar. 7; Sp. p. 538; Gaz. vol. 164; p. 85.
Tool, Combination-. J. H. Stoddard. No. 986,239; Mar. 7; Sp. p. 1011; Gaz. vol. 164; p. 162.
Tool, Combination-. B. C. Dillon. No. 987,120; Mar. 21; Sp. p. 2835; Gaz. vol. 164; p. 522.
Tool, Combination-. G. F. McKee. No. 989,625; Apr. 18; Sp. p. 2865; Gaz. vol. 165; p. 506.
Tool, Combination-. J. Schneider. No. 991,094; May 2; Sp. p. 554; Gaz. vol. 166; p. 96.
Tool, Combination-. A. P. Johnson. No. 991,316; May 2; Sp. p. 1055; Gaz. vol. 166; p. 176.
Tool, Combination-. M. E. Heinzman. No. 996,242; June 27; Sp. p. 4705; Gaz. vol. 167; p. 837.
Tool, Combination-. W. H. Stanley. No. 999,899; Aug. 8; Sp. p. 1420; Gaz. vol. 169; p. 270.
Tool, Combination-. W. H. Stuart and J. W. Hallard. No. 1,001,229; Aug. 22; Sp. p. 4366; Gaz. vol. 169; p. 795.
Tool, Combination-. J. W. Morrison. No. 1,001,425; Aug. 22; Sp. p. 4787; Gaz. vol. 169; p. 862.
Tool, Combination-. A. Martenson. No. 1,004,054; Sept. 26; Sp. p. 4122; Gaz. vol. 170; p. 741.
Tool, Combination-. E. Oehrle. No. 1,006,121; Oct. 17; Sp. p. 3407; Gaz. vol. 171; p. 605.
Tool, Combination-. H. Wenneborg, Jr. No. 1,009,609; Nov. 21; Sp. p. 4399; Gaz. vol. 172; p. 758.
Tool, Combination-. L. S. Starrett. No. 1,011,262; Dec. 12; Sp. p. 1947; Gaz. vol. 173; p. 335.
Tool, Combination-. C. N. Richardson. No. 1,012,442; Dec. 19; Sp. p. 4551; Gaz. vol. 173; p. 779.
Tool, Combination test-. F. Hermann and L. Schneider. No. 997,815; July 11; Sp. p. 2608; Gaz. vol. 168; p. 447.
Tool, Combined rotating and reciprocable. C. A. Gustavson and H. C. Karlson. No. 994,386; June 6; Sp. p. 601; Gaz. vol. 167; p. 102.
Tool, Compound. M. H. Tyler. No. 988,605; Apr. 4; Sp. p. 682; Gaz. vol. 165; p. 109.
Tool, Compound. F. J. Vlchek. No. 998,660; July 25; Sp. p. 4488; Gaz. vol. 168; p. 819.
Tool, Compound. J. Joss and J. Kline. No. 1,004,173; Sept. 26; Sp. p. 4421; Gaz. vol. 170; p. 782.
Tool, Convertible. E. T. Remisch. No. 984,778; Feb. 21; Sp. p. 3326; Gaz. vol. 163; p. 586.
Tool, Electrically-heated. H. Hertzberg, A. A. Low, and M. J. Wohl. No. 990,265; Apr. 25; Sp. p. 4239; Gaz vol. 165; p. 756.
Tool, Electrically-heated. G. E. Stevens. No. 1,010,529; Dec. 5; Sp. p. 290; Gaz. vol. 173; p. 45.
Tool, Fluid-actuated. J. W. Canty. No. 981,530; Jan. 10; Sp. p. 3059; Gaz. vol. 162; p. 499.
Tool, Fluid-pressure. A. C. McFarlane. No. 1,010,660; Dec. 5; Sp. p. 570; Gaz. vol. 173; p. 91.
Tool, Hand-. V. J. Wahlstrom. No. 994,804; June 13; Sp. p. 1543; Gaz. vol. 167; p. 283.
Tool, Hand-. J. F. Joy. No. 1,008,157; Nov. 7; Sp. p. 1081; Gaz. vol. 172; p. 177.
Tool-handle, Ratchet. M. Suster. No. 1,004,496; Sept. 26; Sp. p. 5066; Gaz. vol. 170; p. 892.
Tool-holder. A. F. Marconini. No. 980,309; Jan. 3; Sp. p. 244; Gaz. vol. 162; p. 46.
Tool-holder. R. J. Saum. No. 983,461; Feb. 7; Sp. p. 436; Gaz. vol. 163; p. 70.
Tool-holder. A. Lawson. No. 987,307; Mar. 21; Sp. p. 3283; Gaz. vol. 164; p. 590.
Tool-holder. P. B. Christensen. No. 989,117; Apr. 11; Sp. p. 1732; Gaz. vol. 165; p. 302.
Tool-holder. R. E. Dette. No. 992,860; May 23; Sp. p. 4358; Gaz. vol. 166; p. 800.
Tool-holder. A. Bergstrom. No. 993,335; May 30; Sp. p. 5371; Gaz. vol. 166; p. 993.
Tool-holder. A. K. Rosenbeck. No. 993,553; May 30; Sp. p. 5850; Gaz. vol. 166; p. 1066.
Tool-holder. J. Ward. No. 993,569; May 30; Sp. p. 5882; Gaz. vol. 166; p. 1072.
Tool-holder. H. F. Clifford. No. 993,759; May 30; Sp. p. 6311; Gaz. vol. 166; p. 1139.
Tool-holder. H. R. Huling. No. 995,603; June 20; Sp. p. 3305; Gaz. vol. 167; p. 582.
Tool-holder. G. Johansen. No. 995,679; June 20; Sp. p. 3457; Gaz. vol. 167; p. 609.
Tool-holder. F. J. Bahni. No. 996,195; June 27; Sp. p. 4612; Gaz. vol. 167; p. 823.
Tool-holder. H. Fish. No. 996,709; July 4; Sp. p. 228; Gaz. vol. 168; p. 39.
Tool-holder. J. E. Emley. No. 997,121; July 4; Sp. p. 1100; Gaz. vol. 168; p. 178.
Tool-holder. A. T. Duncan. No. 1,008,022; Nov. 7; Sp. p. 815; Gaz. vol. 172; p. 129.
Tool-holder. G. Stroner and W. C. Buege. No. 1,010,975; Dec. 5; Sp. p. 1269; Gaz. vol. 173; p. 201.
Tool-holder. W. H. Taylor. No. 1,011,667; Dec. 12; Sp. p. 2885; Gaz. vol. 173; p. 481.
Tool-holder. J. G. Baker. No. 1,011,714; Dec. 12; Sp. p. 2960; Gaz. vol. 173; p. 495.
Tool-holder. J. G. Baker. No. 1,011,717; Dec. 12; Sp. p. 2964; Gaz. vol. 173; p. 496.
Tool-holder and tool-post. L. T. Weiss. No. 989,674; Apr. 18; Sp. p. 2969; Gaz. vol. 165; p. 523.
Tool-holder, Friction. B. F. Vickery. No. 993,421; May 30; Sp. p. 5560; Gaz. vol. 166; p. 1021.
Tool holder or bracket. O. A. Smith. No. 1,008,677; Nov. 14; Sp. p. 2381; Gaz. vol. 172; p. 402.
Tool holder or clip. E. Hamerly. No. 1,004,781; Oct. 3; Sp. p. 503; Gaz. vol. 171; p. 83.
Tool holders, Adjustable stop for machine-. W. A. Johnson and C. H. Knothe. No. 1,000,011; Aug. 8; Sp. p. 1644; Gaz. vol. 169; p. 308.
Tool holding and driving device. F. H. Kasperson. No. 986,829; Mar. 14; Sp. p. 2278; Gaz. vol. 164; p. 395.
Tool, Machine-. G. O. Gridley. No. 1,012,630; Dec. 26; Sp. p. 4950; Gaz. vol. 173; p. 890.
Tool, Multiple. V. H. Keller. No. 1,001,280; Aug. 22; Sp. p. 4467; Gaz. vol. 169; p. 811.
Tool-operating machine. A. Perrett. No. 986,856; Mar. 14; Sp. p. 2330; Gaz. vol. 164; p. 404.
Tool, Pivoted. C. S. Evens. No. 996,231; June 27; Sp. p. 4678; Gaz. vol. 167; p. 834.
Tool, Pneumatic. H. Schumacher. No. 984,112; Feb. 14; Sp. p. 1868; Gaz. vol. 163; p. 321.
Tool, Pneumatic. G. H. Gilman. No. 995,593; June 20; Sp. p. 3280; Gaz. vol. 167; p. 578.
Tool, Pneumatic. W. H. Van Sickel. No. 998,659; July 25; Sp. p. 4486; Gaz. vol. 168; p. 819.
Tool, Pneumatic. A. Ball. No. 1,000,884; Aug. 15; Sp. p. 3591; Gaz. vol. 169; p. 645.
Tool, Pressure-fed. G. H. Gilman. No. 1,000,905; Aug. 15; Sp. p. 3629; Gaz. vol. 169; p. 652.
Tool-rest, Combination. C. B. Lawrence. No. 983,378; Feb. 7; Sp. p. 260; Gaz. vol. 163; p. 41.
Tool, Right and left hand side and turning. J. G. Baker. No. 1,011,715; Dec. 12; Sp. p. 2961; Gaz. vol. 173; p. 495.
Tool-securing means. C. J. Carr. No. 995,055; June 13; Sp. p. 2118; Gaz. vol. 167; p. 367.
Tool-shank. G. E. Hackett. No. 994,154; June 6; Sp. p. 100; Gaz. vol. 167; p. 19.
Tool-steel retainer for percussive tools. W. Prellwitz. No. 1,000,036; Aug. 8; Sp. p. 1689; Gaz. vol. 169; p. 317.
Tool-support, Duplex. C. Winkler. No. 1,009,005; Nov. 14; Sp. p. 3075; Gaz. vol. 172; p. 511.
Tools, Locking means for pivoted. J. E. Fuller. No. 996,235; June 27; Sp. p. 4686; Gaz. vol. 167; p. 835.
Tools or the like, Throttling device for pneumatic. G. H. Gilman. No. 984,424; Feb. 14; Sp. p. 2518; Gaz. vol. 163; p. 426.
Tools or tool-sockets, Shank for tang-driven. G. H. and E. S. Gross. No. 990,545; Apr. 25; Sp. p. 4907; Gaz. vol. 165; p. 855.
Tooling device for stone and the like. C. N. Johnson. No. 1,000,813; Aug. 15; Sp. p. 3445; Gaz. vol. 169; p. 620.
Tooth. M. E. Merker. No. 996,502; June 27; Sp. p. 5285; Gaz. vol. 167; p. 927.
Tooth, Artificial. F. J. Claypool. No. 983,685; Feb. 7; Sp. p. 930; Gaz. vol. 163; p. 147.
Tooth, Artificial. H. Wienand. No. 987,203; Mar. 21; Sp. p. 3058; Gaz. vol. 164; p. 554.
Tooth, Artificial. T. McCullough. No. 988,581; Apr. 4; Sp. p. 631; Gaz. vol. 165; p. 101.
Tooth, Artificial. H. A. Gollobin and N. A. Bornstein. No. 989,245; Apr. 11; Sp. p. 2011; Gaz. vol. 165; p. 345.
Tooth, Artificial. H. A. Gollobin and N. A. Bornstein. No. 989,246; Apr. 11; Sp. p. 2011; Gaz. vol. 165; p. 345.
Tooth, Artificial. H. A. Gollobin and N. A. Bornstein. No. 989,247; Apr. 11; Sp. p. 2012; Gaz. vol. 165; p. 345.
Tooth, Artificial. H. A. Gollobin and N. A. Bornstein. No. 989,248; Apr. 11; Sp. p. 2013; Gaz. vol. 165; p. 346.
Tooth, Artificial. F. A. Carter. No. 998,600; July 25; Sp. p. 4350; Gaz. vol. 168; p. 798.
Tooth, Artificial. G. W. Todd. No. 1,005,365; Oct. 10; Sp. p. 1739; Gaz. vol. 171; p. 310.
Tooth, Artificial. I. Stern. No. 1,008,569; Nov. 14; Sp. p. 2138; Gaz. vol. 172; p. 364.
Tooth-bending attachment. H. W. Sage. No. 989,727; Apr. 18; Sp. p. 3070; Gaz. vol. 165; p. 541.
Tooth-cleaning device. A. L. Paschall. No. 1,003,785; Sept. 19; Sp. p. 3486; Gaz. vol. 170; p. 620.
Tooth crown, Artificial-. H. J. Goslee. No. 996,921; July 4; Sp. p. 668; Gaz. vol. 168; p. 109.

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Tooth-crown, Reinforced. S. G. Supplee. No. 986,653; Mar. 14; Sp. p. 1914; Gaz. vol. 164; p. 337.
Tooth crowns, Device for the removal of artificial-post-. W. H. Mosley. No. 996,113; June 27; Sp. p. 4388; Gaz. vol. 167; p. 794.
Tooth-crowns, Form for producing artificial. E. R. Stevenson. No. 1,002,773; Sept. 5; Sp. p. 1318; Gaz. vol. 170; p. 198.
Tooth-crowns, Making. E. Mohr. No. 988,647; Apr. 4; Sp. p. 768; Gaz. vol. 165; p. 123.
Tooth cusp, Artificial-. T. Steele. No. 997,472; July 11; Sp. p. 1808; Gaz. vol. 168; p. 327.
Tooth-extractor. W. Clemow, C. L. Heid, and A. W. Speicher. No. 1,010,862; Dec. 5; Sp. p. 1038; Gaz. vol. 173; p. 162.
Tooth-facing, Detachable. G. W. Patten. No. 983,516; Feb. 7; Sp. p. 554; Gaz. vol. 163; p. 88.
Tooth for bridgework and crown-work. H. B. Gregory. No. 1,010,896; Dec. 5; Sp. p. 1104; Gaz. vol. 173; p. 173.
Tooth-paste, Dispensing. G. A. Madison. No. 987,808; Mar. 28; Sp. p. 4329; Gaz. vol. 164; p. 788.
Tooth-pin anchors, Machine for making. J. Dimelow. No. 1,005,006; Oct. 3; Sp. p. 958; Gaz. vol. 171; p. 160.
Tooth-powder container. A. F. Hetherington. No. 987,986; Mar. 28; Sp. p. 4773; Gaz. vol. 164; p. 851.
Tooth restoration, Device for. F. S. Welden. No. 996,818; July 4; Sp. p. 449; Gaz. vol. 168; p. 74.
Toothpicks or articles of similar splint-like form, Server for. L. H. Tangen. No. 1,004,933; Oct. 3; Sp. p. 834; Gaz. vol. 171; p. 135.
Top. J. R. Myers. No. 999,839; Aug. 8; Sp. p. 1271; Gaz. vol. 169; p. 248.
Top. E. W. Gibbs. No. 1,005,020; Oct. 3; Sp. p. 987; Gaz. vol. 171; p. 165.
Top-fastener. S. B. Thomas. No. 984,319; Feb. 14; Sp. p. 2318; Gaz. vol. 163; p. 392.
Top, Gyroscopic. J. A. Irving. No. 1,011,202; Dec. 12; Sp. p. 1802; Gaz. vol. 173; p. 314.
Top, Humming-. S. Plaut. No. 1,004,814; Oct. 3; Sp. p. 571; Gaz. vol. 171; p. 94.
Top, Kaleidoscopic. E. B. T. Spencer. No. 984,044; Feb. 14; Sp. p. 1727; Gaz. vol. 163; p. 297.
Top lift. T. Lund. No. 999,049; July 25; Sp. p. 5386; Gaz. vol. 168; p. 958.
Top-lift-molding machine. B. F. Mayo. No. 1,012,681; Dec. 26; Sp. p. 5049; Gaz. vol. 173; p. 907.
Top, Spinning-. C. E. Coe. No. 1,003,985; Sept. 26; Sp. p. 3944; Gaz. vol. 170; p. 716.
Top, Whipping-. H. Kowsky. No. 1,011,817; Dec. 12; Sp. p. 3179; Gaz. vol. 173; p. 531.
Topographic views, Apparatus for producing. L. H. Kleinschmidt. No. 994,935; June 13; Sp. p. 1861; Gaz. vol. 167; p. 327.
Torch. O. Bartel. No. 991,191; May 2; Sp. p. 779; Gaz. vol. 166; p. 132.
Torch, Automatic pressure-. O. Bernz. No. 992,399; May 16; Sp. p. 3384; Gaz. vol. 166; p. 610.
Torch, Blow-. E. G. Brandt. No. 985,391; Feb. 28; Sp. p. 4613; Gaz. vol. 163; p. 827.
Torch, Blow-. J. Weintz. No. 1,006,034; Oct. 17; Sp. p. 3205; Gaz. vol. 171; p. 575.
Torch, Spraying-. E. F. Roy and T. Argleben. No. 1,008,733; Nov. 14; Sp. p. 2503; Gaz. vol. 172; p. 421.
Torch, Welding-. H. Brousseau. No. 992,156; May 16; Sp. p. 2815; Gaz. vol. 166; p. 524.
Torches, Burner for concentrators'. A. F. Jenkins. No. 1,009,315; Nov. 21; Sp. p. 3769; Gaz. vol. 172; p. 657.
Torches, Burner for self-vaporizing. J. R. Donnelly. No. 997,278; July 11; Sp. p. 1434; Gaz. vol. 168; p. 264.
Torpedo, Aerial. J. W. Currell. No. 981,069; Jan. 10; Sp. p. 2056; Gaz. vol. 162; p. 339.
Torpedo, Automatic air-. O. A. Langos. No. 1,004,043; Sept. 26; Sp. p. 4097; Gaz. vol. 170; p. 737.
Torpedo, Automobile. H. G. Gillmor. No. 980,243; Jan. 3; Sp. p. 123; Gaz. vol. 162; p. 24.
Torpedo, Automobile. A. E. Jones. No. 996,412; June 27; Sp. p. 5121; Gaz. vol. 167; p. 897.
Torpedo, Automobile. J. M. O'Kelly. No. 998,383; July 18; Sp. p. 3898; Gaz. vol. 168; p. 692.
Torpedo, Automobile. W. M. Douglas. No. 998,475; July 18; Sp. p. 4074; Gaz. vol. 168; p. 722.
Torpedo-cases, Making fiber. F. Dutcher. No. 991,282; May 2; Sp. p. 977; Gaz. vol. 166; p. 165.
Torpedo-clipping machine. F. Dutcher. No. 984,892; Feb. 21; Sp. p. 3533; Gaz. vol. 163; p. 624.
Torpedo-clipping machine. F. Dutcher. No. 999,101; July 25; Sp. p. 5476; Gaz. vol. 168; p. 974.
Torpedo, Dirigible aerial. J. W. Currell. No. 981,068; Jan. 10; Sp. p. 2055; Gaz. vol. 162; p. 338.
Torpedo-fork. O. S. Obenchain. No. 983,394; Feb. 7; Sp. p. 294; Gaz. vol. 163; p. 50.
Torpedo-launching tube, Submarine broadside. C. C. A. Fallenius. No. 990,429; Apr. 25; Sp. p. 4640; Gaz. vol. 165; p. 816.
Torpedo-net. A. D. Carnagy. No. 1,010,856; Dec. 5; Sp. p. 1026; Gaz. vol. 173; p. 159.
Torpedo-net. A. D. Carnagy. No. 1,010,857; Dec. 5; Sp. p. 1026; Gaz. vol. 173; p. 160.
Torpedo-net. A. D. Carnagy. No. 1,010,858; Dec. 5; Sp. p. 1027; Gaz. vol. 173; p. 160.
Torpedo or bomb. W. J. Turnbull. No. 983,786; Feb. 7; Sp. p. 1129; Gaz. vol. 163; p. 181.
Torpedo placer, Railway-. E. S. Lafferty. No. 993,177; May 23; Sp. p. 5032; Gaz. vol. 166; p. 908.
Torpedo, Railway-. A. H. Knapp. No. 999,113; July 25; Sp. p. 5491; Gaz. vol. 168; p. 977.
Torpedo, Railway signal-. F. Dutcher. No. 1,009,137; Nov. 21; Sp. p. 3353; Gaz. vol. 172; p. 593.
Torpedo, Railway signal-. F. Dutcher. No. 1,009,138; Nov. 21; Sp. p. 3354; Gaz. vol. 172; p. 593.
Torpedo, Railway signal-. F. Dutcher. No. 1,009,139; Nov. 21; Sp. p. 3356; Gaz. vol. 172; p. 594.
Torpedo, Railway signal-. F. Dutcher. No. 1,009,228; Nov. 21; Sp. p. 3586; Gaz. vol. 172; p. 626.
Torpedo, Railway signal-. F. Dutcher. No. 1,012,342; Dec. 19; Sp. p. 4368; Gaz. vol. 173; p. 748.
Torpedo-tube cap. H. Hertzberg and M. J. Wohl. No. 1,006,212; Oct. 17; Sp. p. 3630; Gaz. vol. 171; p. 639.
Torpedoes discharged from submarine boats, Compensating for. L. Y. Spear. No. 997,713; July 11; Sp. p. 2323; Gaz. vol. 168; p. 411.
Torpedoes, Means for the propulsion of automobile. A. E. Jones. No. 1,005,647; Oct. 10; Sp. p. 2383; Gaz. vol. 171; p. 409.
Torpedoes, Percussion mechanism of automobile. A. E. Jones. No. 1,005,042; Oct. 3; Sp. p. 1033; Gaz. vol. 171; p. 172.
Torpedoes, Water-jet marker for. G. P. Helfrich. No. 995,138; June 13; Sp. p. 2278; Gaz. vol. 167; p. 395.
Torque-opposing device. N. W. Storer. No. 996,735; July 4; Sp. p. 268; Gaz. vol. 168; p. 47.
Torsionmeters, Collector-brush for. A. Barr and W. Stroud. No. 998,272; July 18; Sp. p. 3642; Gaz. vol. 168; p. 651.
Tourist's harness or pack-bag. A. W. Carlson. No. 990,837; May 2; Sp. p. 19; Gaz. vol. 166; p. 6.
Tow-line package. J. D. Bascom. No. 1,009,633; Nov. 21; Sp. p. 4440; Gaz. vol. 172; p. 765.
Towel-rack. O. A. Boehm. No. 1,006,626; Oct. 24; Sp. p. 4576; Gaz. vol. 171; p. 815.
Towel, Roller-. H. C. Wheeler. No. 980,720; Jan. 3; Sp. p. 1173; Gaz. vol. 162; p. 186.
Tower, Pneumatic observation-. J. J. Stoetzel. No. 989,821; Apr. 18; Sp. p. 3290; Gaz. vol. 165; p. 574.
Toy. F. W. Carpenter. No. 981,977; Jan. 17; Sp. p. 4046; Gaz. vol. 162; p. 675.
Toy. C. A. Knight. No. 982,609; Jan. 24; Sp. p. 5349; Gaz. vol. 162; p. 922.
Toy. A. T. Goldfield. No. 983,133; Jan. 31; Sp. p. 6477; Gaz. vol. 162; p. 1126.
Toy. A. Coaske. No. 983,207; Jan. 31; Sp. p. 6609; Gaz. vol. 162; p. 1150.
Toy. L. C. Bailey. No. 984,735; Feb. 21; Sp. p. 3226; Gaz. vol. 163; p. 571.
Toy. J. C. Turner. No. 985,078; Feb. 21; Sp. p. 3889; Gaz. vol. 163; p. 687.
Toy. H. P. Townsend. No. 989,732; Apr. 18; Sp. p. 3080; Gaz. vol. 165; p. 542.
Toy. P. C. Testman. No. 992,292; May 16; Sp. p. 3136; Gaz. vol. 166; p. 571.
Toy. W. H. Bradfield. No. 995,053; June 13; Sp. p. 2115; Gaz. vol. 167; p. 367.
Toy. J. B. Kusnell. No. 996,416; June 27; Sp. p. 5131; Gaz. vol. 167; p. 898.
Toy. A. J. Keck. No. 996,721; July 4; Sp. p. 248; Gaz. vol. 168; p. 43.
Toy. C. G. Pickett. No. 996,793; July 4; Sp. p. 386; Gaz. vol. 168; p. 65.
Toy. E. M. Myers. No. 997,407; July 11; Sp. p. 1690; Gaz. vol. 168; p. 307.
Toy. W. Green. No. 997,666; July 11; Sp. p. 2228; Gaz. vol. 168; p. 394.
Toy. K. Ostlund. No. 997,695; July 11; Sp. p. 2283; Gaz. vol. 168; p. 404.
Toy. E. T. Gibson. No. 998,243; July 18; Sp. p. 3568; Gaz. vol. 168; p. 639.
Toy. M. A. Burthe. No. 1,000,777; Aug. 15; Sp. p. 3383; Gaz. vol. 169; p. 608.
Toy. R. L. French. No. 1,001,263; Aug. 22; Sp. p. 4432; Gaz. vol. 169; p. 806.
Toy. C. L. Cruver. No. 1,002,969; Sept. 12; Sp. p. 1757; Gaz. vol. 170; p. 305.
Toy. A. Hirmer. No. 1,003,359; Sept. 12; Sp. p. 2566; Gaz. vol. 170; p. 442.
Toy. F. W. Preyer. No. 1,005,070; Oct. 3; Sp. p. 1076; Gaz. vol. 171; p. 181.
Toy. T. D. Floto. No. 1,006,840; Oct. 24; Sp. p. 5048; Gaz. vol. 171; p. 890.
Toy. T. Sekikawa. No. 1,007,011; Oct. 24; Sp. p. 5401; Gaz. vol. 171; p. 946.
Toy. J. J. Mahan. No. 1,007,218; Oct. 31; Sp. p. 5884; Gaz. vol. 171; p. 1074.
Toy. C. B. Johnson. No. 1,008,547; Nov. 14; Sp. p. 2076; Gaz. vol. 172; p. 355.
Toy. J. Borges. No. 1,009,640; Nov. 21; Sp. p. 4451; Gaz. vol. 172; p. 767.
Toy. J. A. Wallace and J. W. Martin. No. 1,009,870; Nov. 28; Sp. p. 4938; Gaz. vol. 172; p. 892.
Toy. J. A. Welch. No. 1,010,549; Dec. 5; Sp. p. 321; Gaz. vol. 173; p. 51.

Toy. G. A. Ringler. No. 1,012,279; Dec. 19; Sp. p. 4234; Gaz. vol. 173; p. 726.
Toy. J. Monper. No. 1,012,409; Dec. 19; Sp. p. 4494; Gaz. vol. 173; p. 769.
Toy, Aerial. J. Knowles. No. 983,147; Jan. 31; Sp. p. 6500; Gaz. vol. 162; p. 1130.
Toy, Aerial. F. A. Terry. No. 985,301; Feb. 28; Sp. p. 4439; Gaz. vol. 163; p. 798.
Toy, Aerial. J. D. Mills. No. 1,002,171; Aug. 29; Sp. p. 6317; Gaz. vol. 169; p. 1141.
Toy, Aerial projectile. C. E. Coe. No. 991,138; May 2; Sp. p. 660; Gaz. vol. 166; p. 112.
Toy aeroplane. W. Mooney. No. 1,010,783; Dec. 5; Sp. p. 860; Gaz. vol. 173; p. 134.
Toy and lung-tester. W. Zolper. No. 988,057; Mar. 28; Sp. p. 4926; Gaz. vol. 164; p. 874.
Toy, Automatic. O. L. Lewis. No. 991,217; May 2; Sp. p. 832; Gaz. vol. 166; p. 141.
Toy badge. J. J. Meehan. No. 1,005,993; Oct. 17; Sp. p. 3126; Gaz. vol. 171; p. 561.
Toy balloon. T. M. Gregory. No. 1,008,641; Nov. 14; Sp. p. 2310; Gaz. vol. 172; p. 390.
Toy blow-gun. J. A. Gilchrist. No. 1,009,063; Nov. 21; Sp. p. 3207; Gaz. vol. 172; p. 568.
Toy bridge. F. A. Richter. No. 999,466; Aug. 1; Sp. p. 533; Gaz. vol. 169; p. 94.
Toy building-blocks. F. M. Burrowes. No. 1,009,468; Nov. 21; Sp. p. 4134; Gaz. vol. 172; p. 712.
Toy building-blocks. F. M. Burrowes. No. 1,009,469; Nov. 21; Sp. p. 4125; Gaz. vol. 172; p. 712.
Toy-building roof. F. A. Richter. No. 997,008; July 4; Sp. p. 889; Gaz. vol. 168; p. 141.
Toy canister. M. Kamenstein. No. 1,003,610; Sept. 19; Sp. p. 3110; Gaz. vol. 170; p. 561.
Toy, Child's. R. W. Nicol. No. 1,005,285; Oct. 10; Sp. p. 1556; Gaz. vol. 171; p. 281.
Toy, Dancing. C. W. Clark. No. 992,111; May 9; Sp. p. 2699; Gaz. vol. 166; p. 477.
Toy, Dancing. R. E. Baker and J. F. Scolaro. No. 994,236; June 6; Sp. p. 282; Gaz. vol. 167; p. 48.
Toy device. E. Komar. No. 986,578; Mar. 14; Sp. p. 1745; Gaz. vol. 164; p. 309.
Toy device. J. N. Mitchell. No. 990,154; Apr. 18; Sp. p. 3973; Gaz. vol. 165; p. 686.
Toy device. H. Schulz. No. 996,286; June 27; Sp. p. 4806; Gaz. vol. 167; p. 852.
Toy drum. I. Schlesinger. No. 1,003,125; Sept. 12; Sp. p. 2074; Gaz. vol. 170; p. 357.
Toy dump-car. H. T. Kingsbury. No. 995,153; June 13; Sp. p. 2305; Gaz. vol. 167; p. 400.
Toy, Educational. L. B. Lewis. No. 1,005,853; Oct. 17; Sp. p. 2814; Gaz. vol. 171; p. 512.
Toy, Electric. A. Huck. No. 983,717; Feb. 7; Sp. p. 993; Gaz. vol. 163; p. 158.
Toy, Electric. E. Sollmann. No. 993,727; May 30; Sp. p. 6242; Gaz. vol. 166; p. 1128.
Toy electric movement. W. G. Viall. No. 988,914; Apr. 4; Sp. p. 1302; Gaz. vol. 165; p. 209.
Toy, Explosive. A. A. Coup. No. 1,003,879; Sept. 19; Sp. p. 3668; Gaz. vol. 170; p. 652.
Toy fan. A. Newbold. No. 1,004,677; Oct. 3; Sp. p. 270; Gaz. vol. 171; p. 47.
Toy fence. F. Carney. No. 1,002,641; Sept. 5; Sp. p. 1024; Gaz. vol. 170; p. 153.
Toy, Figure. W. J. Herbst. No. 1,001,395; Aug. 22; Sp. p. 4729; Gaz. vol. 169; p. 853.
Toy fireworks. E. F. Hamill. No. 993,363; May 30; Sp. p. 5440; Gaz. vol. 166; p. 1002.
Toy, Flying. O. Schulze. No. 989,067; Apr. 11; Sp. p. 1641; Gaz. vol. 165; p. 286.
Toy flying-machine. C. D. Wilson. No. 982,653; Jan. 24; Sp. p. 5428; Gaz. vol. 162; p. 937.
Toy flying-machine. W. B. Luce. No. 984,683; Feb. 21; Sp. p. 3105; Gaz. vol. 163; p. 551.
Toy flying-machine. L. A. Carter. No. 1,010,585; Dec. 5; Sp. p. 412; Gaz. vol. 173; p. 65.
Toy gun. P. W. Cohrs. No. 990,228; Apr. 25; Sp. p. 4152; Gaz. vol. 165; p. 743.
Toy gun. F. A. Kopp. No. 1,009,531; Nov. 21; Sp. p. 4259; Gaz. vol. 172; p. 734.
Toy gun, Rapid-firing. A. T. Giles. No. 1,010,615; Dec. 5; Sp. p. 482; Gaz. vol. 173; p. 75.
Toy hand-car. H. T. Kingsbury. No. 989,268; Apr. 11; Sp. p. 2066; Gaz. vol. 165; p. 352.
Toy hen and chicken. J. A. Ekelund. No. 998,285; July 18; Sp. p. 3685; Gaz. vol. 168; p. 657.
Toy kicking horse. J. A. Ekelund. No. 998,566; July 18; Sp. p. 4261; Gaz. vol. 168; p. 753.
Toy kinematograph. A. Z. Baker. No. 1,002,483; Sept. 5; Sp. p. 685; Gaz. vol. 170; p. 100.
Toy, Locomotive. D. P. Clark. No. 991,276; May 2; Sp. p. 964; Gaz. vol. 166; p. 162.
Toy, Mechanical. C. A. Lewis. No. 985,746; Feb. 28; Sp. p. 5418; Gaz. vol. 163; p. 950.
Toy, Mechanical. C. E. Koester, Jr. No. 1,004,440; Sept. 26; Sp. p. 4957; Gaz. vol. 170; p. 872.
Toy, Mechanically-operated. D. P. Clark. No. 991,275; May 2; Sp. p. 960; Gaz. vol. 166; p. 162.
Toy merry-go-round. J. J. Connolly, Jr. No. 990,035; Apr. 18; Sp. p. 3738; Gaz. vol. 165; p. 647.
Toy money-box. C. F. Gates. No. 993,979; May 30; Sp. p. 6732; Gaz. vol. 166; p. 1211.
Toy monorail system. H. Rehbach. No. 993,104; May 23; Sp. p. 4891; Gaz. vol. 166; p. 886.
Toy, Musical advertising. T. S. Spivey. No. 986,776; Mar. 14; Sp. p. 2159; Gaz. vol. 164; p. 376.
Toy, Optical. W. H. S. Pearce. No. 991,534; May 9; Sp. p. 1515; Gaz. vol. 166; p. 282.
Toy parachute. M. E. Wright. No. 994,490; June 6; Sp. p. 787; Gaz. vol. 167; p. 135.
Toy pistol. G. J. J. Clark. No. 991,956; May 9; Sp. p. 2400; Gaz. vol. 166; p. 426.
Toy pistol. R. A. Moore. No. 994,649; June 6; Sp. p. 1154; Gaz. vol. 167; p. 189.
Toy pistol. F. Hornquist. No. 1,000,522; Aug. 15; Sp. p. 2796; Gaz. vol. 169; p. 516.
Toy pistol. H. E. Sanford. No. 1,012,719; Dec. 26; Sp. p. 5145; Gaz. vol. 173; p. 922.
Toy puzzle. Z. Mendel. No. 1,008,659; Nov. 14; Sp. p. 2343; Gaz. vol. 172; p. 396.
Toy, Pyrotechnic. L. A. Petow. No. 986,944; Mar. 14; Sp. p. 2517; Gaz. vol. 164; p. 434.
Toy-railway-car governor. E. R. Ives. No. 988,940; Apr. 4; Sp. p. 1362; Gaz. vol. 165; p. 218.
Toy, Repeating explosive. J. M. Robinson. No. 983,402; Feb. 7; Sp. p. 308; Gaz. vol. 163; p. 52.
Toy, Roller-pole. T. S. Spivey. No. 1,003,537; Sept. 19; Sp. p. 2933; Gaz. vol. 170; p. 535.
Toy, Rolling. R. Sato. No. 991,898; May 9; Sp. p. 2279; Gaz. vol. 166; p. 406.
Toy sand-grabber. J. A. Wallace and J. W. Martin. No. 1,006,705; Oct. 24; Sp. p. 4719; Gaz. vol. 171; p. 840.
Toy savings-bank. J. L. McGloudy. No. 998,194; July 18; Sp. p. 3447; Gaz. vol. 168; p. 622.
Toy, Sounding. R. O. Barler. No. 986,892; Mar. 14; Sp. p. 2423; Gaz. vol. 164; p. 418.
Toy, Sounding. F. Juhasz. No. 993,380; May 30; Sp. p. 5472; Gaz. vol. 166; p. 1007.
Toy spinner. W. H. Phenice. No. 989,286; Apr. 11; Sp. p. 2112; Gaz. vol. 165; p. 360.
Toy, Spinning. O. Heider. No. 990,130; Apr. 18; Sp. p. 3923; Gaz. vol. 165; p. 677.
Toy steamboat. J. Fleming and J. L. Niman. No. 997,492; July 11; Sp. p. 1849; Gaz. vol. 168; p. 334.
Toy table and playhouse, Combined. P. Butler. No. 992,337; May 16; Sp. p. 3260; Gaz. vol. 166; p. 588.
Toy torpedo. J. Berg. No. 989,829; Apr. 18; Sp. p. 3304; Gaz. vol. 165; p. 577.
Toy vehicle. C. M. Bartholomew. No. 1,006,045; Oct. 17; Sp. p. 3237; Gaz. vol. 171; p. 580.
Toy vehicle, Reciprocating. C. M. Bartholomew. No. 987,688; Mar. 28; Sp. p. 4072; Gaz. vol. 164; p. 748.
Toy, Wheeled. H. T. Kingsbury. No. 989,269; Apr. 11; Sp. p. 2067; Gaz. vol. 165; p. 352.
Toy, Wheeled. D. P. Clark. No. 1,012,815; Dec. 26; Sp. p. 5381; Gaz. vol. 173; p. 955.
Toy, Wheeled figure. J. B. Hill. No. 1,008,822; Nov. 14; Sp. p. 2685; Gaz. vol. 172; p. 451.
Trace. C. L. Ward. No. 1,011,534; Dec. 12; Sp. p. 2557; Gaz. vol. 173; p. 433.
Trace attachment, Harness. W. F. Beckett. No. 1,003,581; Sept. 19; Sp. p. 3052; Gaz. vol. 170; p. 550.
Trace-carrier. J. T. Lutz. No. 1,003,929; Sept. 19; Sp. p. 3806; Gaz. vol. 170; p. 669.
Trace-fastener. J. W. Cable. No. 992,405; May 16; Sp. p. 3401; Gaz. vol. 166; p. 612.
Trace-fastener. T. A. Bakken. No. 1,009,461; Nov. 21; Sp. p. 4115; Gaz. vol. 172; p. 710.
Trace-holder. J. W. Meredith. No. 980,984; Jan. 10; Sp. p. 1845; Gaz. vol. 162; p. 308.
Trace-holder. A. D. Krause. No. 996,349; June 27; Sp. p. 4965; Gaz. vol. 167; p. 874.
Trace-holder, Safety. J. B. Levy. No. 982,835; Jan. 31; Sp. p. 5832; Gaz. vol. 162; p. 1026.
Trace-lock. E. V. Burrow. No. 990,104; Apr. 18; Sp. p. 3869; Gaz. vol. 165; p. 668.
Trace-protector. C. A. Noland. No. 1,011,360; Dec. 12; Sp. p. 2178; Gaz. vol. 173; p. 371.
Track: *See* Railway-track.
Track. J. M. Bruns. No. 997,541; July 11; Sp. p. 1950; Gaz. vol. 168; p. 349.
Track and means for supporting same. H. L. Ferris. No. 983,615; Feb. 7; Sp. p. 775; Gaz. vol. 163; p. 123.
Track and track-hanger, Suspended. G., W. G., and M. J. Beatty. No. 983,262; Feb. 7; Sp. p. 5; Gaz. vol. 163; p. 3.
Track-brake. F. Ingersoll and W. W. Macfarren. No. 980,272; Jan. 3; Sp. p. 173; Gaz. vol. 162; p. 34.
Track-cleaner. J. A. Simon. No. 1,013,078; Dec. 26; Sp. p. 5964; Gaz. vol. 173; p. 1044.
Track-clearer. T. F. Kelly. No. 983,827; Feb. 7; Sp. p. 1232; Gaz. vol. 163; p. 196.
Track connection. J. W. Blower. No. 999,743; Aug. 8; Sp. p. 1092; Gaz. vol. 169; p. 217.
Track connection. J. W. Blower. No. 999,744; Aug. 8; Sp. p. 1093; Gaz. vol. 169; p. 217.
Track-fastening. J. W. Stephenson. No. 1,010,971; Dec. 5; Sp. p. 1262; Gaz. vol. 173; p. 200.
Track-fastening. J. W. Stephenson. No. 1,010,972; Dec. 5; Sp. p. 1264; Gaz. vol. 173; p. 200.

Track for litter-carriers. C. M. Stevenson. No. 1,003,128; Sept. 12; Sp. p. 2080; Gaz. vol. 170; p. 358.
Track for railway-cars and other vehicles. J. B. Lott. No. 1,011,978; Dec. 10; Sp. p. 3558; Gaz. vol. 173; p. 622.
Track-gage. J. Dobbins. No. 1,003,886; Sept. 19; Sp. p. 3679; Gaz. vol. 170; p. 654.
Track-intersection structure. J. B. Strong and J. D. McPherson. No. 988,909; Apr. 4; Sp. p. 1292; Gaz. vol. 165; p. 208.
Track-laying apparatus. C. Leon. No. 1,006,488; Oct. 24; Sp. p. 4256; Gaz. vol. 171; p. 764.
Track-laying machine. C. G. Smith and A. C. Aulin. No. 989,931; Apr. 18; Sp. p. 3519; Gaz. vol. 165; p. 611.
Track-laying machine. A. L. Peasley. No. 993,869; May 30; Sp. p. 6524; Gaz. vol. 166; p. 1176.
Track lifter and liner. E. Warthen. No. 982,401; Jan. 24; Sp. p. 4916; Gaz. vol. 162; p. 851.
Track manifold sanding device. J. W. White. No. 984,405; Feb. 14; Sp. p. 2482; Gaz. vol. 163; p. 420.
Track, Monorailway-. W. H. Shepard. No. 1,004,210; Sept. 26; Sp. p. 4489; Gaz. vol. 170; p. 795.
Track-moving machine. E. L. Hayward. No. 1,000,908; Aug. 15; Sp. p. 3634; Gaz. vol. 169; p. 653.
Track, Overhead. H. L. Ferris. No. 1,003,097; Sept. 12; Sp. p. 2021; Gaz. vol. 170; p. 347.
Track, Overhead. C. M. Stevenson. No. 1,003,667; Sept. 19; Sp. p. 3222; Gaz. vol. 170; p. 581.
Track-rebuilding. J. D. Morgan. No. 1,000,431; Aug. 15; Sp. p. 2599; Gaz. vol. 169; p. 484.
Track-sander. S. S. Underwood. No. 1,000,055; Aug. 8; Sp. p. 1729; Gaz. vol. 169; p. 322.
Track-sander. W. Jenkins. No. 1,003,608; Sept. 19; Sp. p. 3107; Gaz. vol. 170; p. 560.
Track-sander. J. F. Pearce. No. 1,005,462; Oct. 10; Sp. p. 1941; Gaz. vol. 171; p. 343.
Track-sanding device. F. D. Bowen and M. C. Hagler. No. 985,972; Mar. 7; Sp. p. 464; Gaz. vol. 164; p. 74.
Track-sanding device. J. Gapp. No. 991,145; May 2; Sp. p. 674; Gaz. vol. 166; p. 115.
Track-sanding device. T. N. Locke. No. 1,010,280; Nov. 28; Sp. p. 5782; Gaz. vol. 172; p. 1030.
Track-sanding mechanism for street-cars and the like. W. W. Rogers. No. 992,990; May 23; Sp. p. 4638; Gaz. vol. 166; p. 846.
Track-spike. H. Stephens. No. 996,893; July 4; Sp. p. 607; Gaz. vol. 168; p. 100.
Tracker. T. P. Brown. No. 1,011,568; Dec. 12; Sp. p. 2653; Gaz. vol. 173; p. 445.
Tracker-board. C. L. Davis. No. 998,877; July 25; Sp. p. 4995; Gaz. vol. 168; p. 897.
Tracker-board. H. Pierce. (Reissue.) No. 13,345; Dec. 26; Sp. p. 6010; Gaz. vol. 173; p. 1053.
Tracker mechanism. L. W. Southgate. No. 1,012,175; Dec. 19; Sp. p. 4009; Gaz. vol. 173; p. 690.
Traction device. G. E. Baker. No. 1,003,025; Sept. 12; Sp. p. 1868; Gaz. vol. 170; p. 323.
Traction-engine. O. P. Conger and W. H. Corbett. No. 985,566; Feb. 28; Sp. p. 5020; Gaz. vol. 163; p. 888.
Traction-engine. A. B. Howard. No. 985,897; Mar. 7; Sp. p. 298; Gaz. vol. 164; p. 48.
Traction-engine. R. Parker and W. E. Harrison. No. 989,035; Apr. 11; Sp. p. 1562; Gaz. vol. 165; p. 273.
Traction-engine. J. M. Mittendorf. No. 990,374; Apr. 25; Sp. p. 4490; Gaz. vol. 165; p. 794.
Traction-engine. C. H. Köhn. No. 992,211; May 16; Sp. p. 2924; Gaz. vol. 166; p. 544.
Traction-engine. P. E. Holt. No. 994,317; June 6; Sp. p. 435; Gaz. vol. 167; p. 75.
Traction-engine. D. O. De Witt. No. 1,002,043; Aug. 29; Sp. p. 6090; Gaz. vol. 169; p. 1101.
Traction-engine. J. H. Venners. No. 1,010,988; Dec. 5; Sp. p. 1293; Gaz. vol. 173; p. 205.
Traction-motor. J. B. Heverling. No. 995,538; June 20; Sp. p. 3139; Gaz. vol. 167; p. 558.
Traction-reel, Reversible. J. W. Master and N. S. Abrahamson. No. 1,009,163; Nov. 21; Sp. p. 3400; Gaz. vol. 172; p. 601.
Traction system, Electric. O. E. Longsdorf. No. 980,540; Jan. 3; Sp. p. 792; Gaz. vol. 162; p. 127.
Traction-wheel. W. A. McKinney. No. 980,981; Jan. 10; Sp. p. 1841; Gaz. vol. 162; p. 307.
Traction-wheel. S. M. Bower. No. 983,023; Jan. 31; Sp. p. 6263; Gaz. vol. 162; p. 1090.
Traction-wheel. A. H. Meyer. No. 990,579; Apr. 25; Sp. p. 4967; Gaz. vol. 165; p. 867.
Traction-wheel. J. S. Ulfers. No. 991,396; May 2; Sp. p. 1217; Gaz. vol. 166; p. 203.
Traction-wheel. M. J. Todd. No. 994,348; June 6; Sp. p. 503; Gaz. vol. 167; p. 87.
Traction-wheel. M. Froehlich. No. 1,002,665; Sept. 5; Sp. p. 1068; Gaz. vol. 170; p. 160.
Traction-wheel. W. S. Plummer. No. 1,003,500; Sept. 19; Sp. p. 2851; Gaz. vol. 170; p. 521.
Traction-wheel. C. R. Traxler. No. 1,004,313; Sept. 26; Sp. p. 4686; Gaz. vol. 170; p. 829.
Traction-wheel-drive elevator, Magnetic-. D. L. Lindquist. No. 996,933; July 4; Sp. p. 690; Gaz. vol. 168; p. 114.
Tractor. J. B. Coffron. No. 983,256; Jan. 31; Sp. p. 6736; Gaz. vol. 162; p. 1168.
Tractor. P. E. Holt. No. 1,003,110; Sept. 12; Sp. p. 2049; Gaz. vol. 170; p. 352.
Tractor, Agricultural. A. E. Zock. No. 992,100; May 9; Sp. p. 2664; Gaz. vol. 166; p. 474.
Tractor, Farm-. H. Pence, Jr. No. 993,194; May 23; Sp. p. 5063; Gaz. vol. 166; p. 913.
Traffic-controlling device. W. K. Howe. No. 1,012,080; Dec. 19; Sp. p. 3797; Gaz. vol. 173; p. 658.
Traffic system, Railway, road, water, and like. R. C. Sayer. No. 1,001,170; Aug. 22; Sp. p. 4239; Gaz. vol. 169; p. 776.
Train-coaling device, Moving-. C. M. Miller. No. 986,484; Mar. 14; Sp. p. 1549; Gaz. vol. 164; p. 277.
Train controlling and stopping mechanism. E. J. Clarke and P. F. Dewitt. No. 1,004,148; Sept. 26; Sp. p. 4365; Gaz. vol. 170; p. 774.
Train-controlling mechanism. R. T. and F. T. Jones. No. 1,010,372; Nov. 28; Sp. p. 5963; Gaz. vol. 172; p. 1059.
Train-controlling mechanism, Automatic. N. Lang. No. 982,611; Jan. 24; Sp. p. 5352; Gaz. vol. 162; p. 923.
Train-controlling system. W. O. Medford. No. 993,266; May 23; Sp. p. 5216; Gaz. vol. 166; p. 936.
Train emergency-stop. W. L. Matchett. No. 1,005,726; Oct. 10; Sp. p. 2533; Gaz. vol. 171; p. 435.
Train-generator and driving mechanism therefor. W. M. McDougall. No. 1,007,221; Oct. 31; Sp. p. 5889; Gaz. vol. 171; p. 1076.
Train-heating system. W. J. Hatch. No. 1,003,603; Sept. 19; Sp. p. 3095; Gaz. vol. 170; p. 558.
Train-indicating apparatus. J. B. Edings. No. 996,069; June 27; Sp. p. 4297; Gaz. vol. 167; p. 780.
Train-lighting system. J. P. Crouch and J. Etchells. No. 1,001,358; Aug. 22; Sp. p. 4652; Gaz. vol. 169; p. 840.
Train-line attachment, Automatic safety. G. C. Gale. No. 991,968; May 9; Sp. p. 2418; Gaz. vol. 166; p. 430.
Train-line coupling. J. B. Genin. No. 1,006,745; Oct. 24; Sp. p. 4807; Gaz. vol. 171; p. 854.
Train-line coupling, Automatic electric. W. L. Bliss. No. 1,011,402; Dec. 12; Sp. p. 2248; Gaz. vol. 173; p. 384.
Train-line recharging and brake-retaining device. L. B. Jahn. No. 1,002,274; Sept. 5; Sp. p. 194; Gaz. vol. 170; p. 25.
Train-number indicator. W. S. Hamm. No. 994,838; June 13; Sp. p. 1640; Gaz. vol. 167; p. 295.
Train-order deliverer. F. Dutcher. No. 1,006,373; Oct. 17; Sp. p. 3986; Gaz. vol. 171; p. 694.
Train-order device, Duplicate-. A. G. Godwin. No. 1,000,906; Aug. 15; Sp. p. 3631; Gaz. vol. 169; p. 653.
Train order or message delivering device. T. Hartsook. No. 1,004,022; Sept. 26; Sp. p. 4036; Gaz. vol. 170; p. 729.
Train-pipes, Apparatus for truing ports of automatic connectors for. P. Beahm. No. 1,007,632; Oct. 31; Sp. p. 6774; Gaz. vol. 171; p. 1218.
Train-recording apparatus. F. A. Pierce. No. 995,634; June 20; Sp. p. 3366; Gaz. vol. 167; p. 593.
Train-signal, Electric. E. F. von Dreden. No. 1,001,742; Aug. 29; Sp. p. 5433; Gaz. vol. 169; p. 1001.
Train-stopping device, Automatic. F. A. Pierce. No. 998,260; July 18; Sp. p. 3600; Gaz. vol. 168; p. 646.
Train-stopping mechanism, Electrically-controlled. C. J. Hurley. No. 1,004,790; Oct. 3; Sp. p. 518; Gaz. vol. 171; p. 86.
Trains, Device for delivering written orders and messages to moving. L. V. Thayer. No. 988,046; Mar. 28; Sp. p. 4906; Gaz. vol. 164; p. 870.
Training and amusement purposes, Apparatus for. C. Berzac. No. 994,567; June 6; Sp. p. 971; Gaz. vol. 167; p. 160.
Trammel-head. F. C. and H. S. Jewell. No. 998,616; July 25; Sp. p. 4385; Gaz. vol. 168; p. 803.
Trammel-head. A. Bjorklund. No. 1,007,424; Oct. 31; Sp. p. 6311; Gaz. vol. 171; p. 1148.
Tramway, Cable-. S. P. Watt. No. 993,423; May 30; Sp. p. 5562; Gaz. vol. 166; p. 1021.
Tramway, Double-rope. S. A. Cooney. No. 998,280; July 18; Sp. p. 3662; Gaz. vol. 168; p. 654.
Tramway-grip. F. W. Grice. No. 1,007,561; Oct. 31; Sp. p. 6620; Gaz. vol. 171; p. 1194.
Tramway-switch. F. Pawel. No. 1,012,001; Dec. 19; Sp. p. 3612; Gaz. vol. 173; p. 630.
Tramway system. W. C. Lawson. No. 996,653; July 4; Sp. p. 120; Gaz. vol. 168; p. 21.
Tramways and the like, Point-controlling mechanism for. J. J. Thomas. No. 997,871; July 11; Sp. p. 2719; Gaz. vol. 168; p. 466.
Tramways, Tightening and supporting means for wire-rope. H. A. Weicher. No. 997,526; July 11; Sp. p. 1924; Gaz. vol. 168; p. 345.
Transfer mechanism. T. R. Cook. No. 985,398; Feb. 28; Sp. p. 4624; Gaz. vol. 163; p. 829.
Transfer mechanism. D. F. Crawford. No. 1,000,585; Aug. 15; Sp. p. 2954; Gaz. vol. 169; p. 541.
Transfer system, Freight-. M. B. Waterman. No. 985,647; Feb. 28; Sp. p. 5182; Gaz. vol. 163; p. 916.
Transformer. C. L. Fortescue. No. 996,755; July 4; Sp. p. 318; Gaz. vol. 168; p. 54.
Transformer. F. Conrad. No. 1,005,163; Oct. 10; Sp. p. 1264; Gaz. vol. 171; p. 235.

Alphabetical list of inventions—Continued.

Transformer. M. O. Troy. No. 1,008,623; Nov. 14; Sp. p. 2253; Gaz. vol. 172; p. 383.
Transformer. H. C. Soule. No. 1,010,083; Nov. 28; Sp. p. 5382; Gaz. vol. 172; p. 965.
Transformer. S. E. Johannesen. No. 1,010,500; Dec. 5; Sp. p. 228; Gaz. vol. 173; p. 36.
Transformer, Oil-cooled. O. Kulka. No. 1,002,527; Sept. 5; Sp. p. 773; Gaz. vol. 170; p. 113.
Transformer, Outdoor. K. C. Randall. No. 1,005,307; Oct. 10; Sp. p. 1613; Gaz. vol. 171; p. 289.
Transformer, Polyphase. W. M. McConahey. No. 999,825; Aug. 8; Sp. p. 1247; Gaz. vol. 169; p. 244.
Transformer-secondary. E. Thomson. No. 1,003,547; Sept. 19; Sp. p. 2954; Gaz. vol. 170; p. 539.
Transformer system. H. C. Caldwell. No. 1,008,293; Nov. 7; Sp. p. 1402; Gaz. vol. 172; p. 227.
Transhipping apparatus, Freight-. J. F. Murdock. No. 983,301; Feb. 7; Sp. p. 95; Gaz. vol. 163; p. 17.
Transit. A. Angel. No. 1,010,339; Nov. 28; Sp. p. 5894; Gaz. vol. 172; p. 1050.
Transmission apparatus. A. Winden. No. 1,009,204; Nov. 21; Sp. p. 3496; Gaz. vol. 172; p. 616.
Transmission device. J. W. Ketterman. No. 995,152; June 13; Sp. p. 2302; Gaz. vol. 167; p. 399.
Transmission device. A. E. Baum. No. 1,011,905; Dec. 19; Sp. p. 3396; Gaz. vol. 173; p. 595.
Transmission device, Safety. A. M. Leoni. No. 990,757; Apr. 25; Sp. p. 5368; Gaz. vol. 165; p. 926.
Transmission mechanism. P. Menzies, A. F. and S. A. Cullon. No. 981,298; Jan. 10; Sp. p. 2573; Gaz. vol. 162; p. 419.
Transmission mechanism. J. L. Ish. No. 982,501; Jan. 24; Sp. p. 5143; Gaz. vol. 162; p. 887.
Transmission mechanism. M. L. Jenkins. No. 984,565; Feb. 21; Sp. p. 2862; Gaz. vol. 163; p. 510.
Transmission mechanism. S. C. Carter. No. 988,973; Apr. 11; Sp. p. 1423; Gaz. vol. 165; p. 252.
Transmission mechanism. E. A. Thiem. No. 992,083; May 9; Sp. p. 2632; Gaz. vol. 166; p. 468.
Transmission mechanism. G. W. Gerlach and L. Edwards. No. 999,643; Aug. 1; Sp. p. 878; Gaz. vol. 169; p. 152.
Transmission mechanism. J. Becker. No. 1,004,732; Oct. 3; Sp. p. 399; Gaz. vol. 171; p. 67.
Transmission mechanism. H. W. Fellows. No. 1,005,183; Oct. 10; Sp. p. 1306; Gaz. vol. 171; p. 243.
Transmission mechanism. H. Ford. No. 1,005,186; Oct. 10; Sp. p. 1315; Gaz. vol. 171; p. 244.
Transmission mechanism. C. R. Minor. No. 1,006,867; Oct. 24; Sp. p. 5098; Gaz. vol. 171; p. 899.
Transmission mechanism. O. Rash and F. Hawes. No. 1,007,890; Nov. 7; Sp. p. 552; Gaz. vol. 172; p. 84.
Transmission mechanism. R. L. Morgan. No. 1,009,435; Nov. 21; Sp. p. 4069; Gaz. vol. 172; p. 701.
Transmission mechanism, Frictional. B. J. Carter. No. 983,349; Feb. 7; Sp. p. 190; Gaz. vol. 163; p. 34.
Transmission system. G. C. Cummings and A. Wray. No. 1,000,077; Aug. 8; Sp. p. 1800; Gaz. vol 169; p. 330.
Transmitter, Morse. T. Habermann. No. 1,002,267; Sept. 5; Sp. p. 182; Gaz. vol. 170; p. 23.
Transmitting apparatus. H. Shoemaker. No. 1,005,338; Oct. 10; Sp. p. 1681; Gaz. vol. 171; p. 300.
Transmitting intelligence, System for. G. C. Cummings and J. A. Kick. No. 1,000,078; Aug. 8; Sp. p. 1820; Gaz. vol. 169; p. 331.
Transom-adjuster. F. Castelli. No. 993,754; May 30; Sp. p. 6303; Gaz. vol. 166; p. 1137.
Transom-lift. E. E. Bell. No. 983,474; Feb. 7; Sp. p. 469; Gaz. vol. 163; p. 74.
Transom-lift. L. H. Dyer. No. 983,485; Feb. 7; Sp. p. 492; Gaz. vol. 163; p. 78.
Transom-lifter. R. T. Savage. No. 993,719; May 30; Sp. p. 6223; Gaz. vol. 166; p. 1125.
Transom-lock. R. Gold. No. 985,894; Mar. 7; Sp. p. 293; Gaz. vol. 164; p. 47.
Transom-mover. C. T. Rogers. No. 1,005,315; Oct. 10; Sp. p. 1630; Gaz. vol. 171; p. 292.
Transom-pivot. P. G. Emery. No. 1,004,560; Oct. 3; Sp. p. 26; Gaz. vol. 171; p. 6.
Transom support and fastener. W. Roper. No. 1,000,691; Aug. 15; Sp. p. 3194; Gaz. vol. 169; p. 577.
Transparencies, Preparing. C. A. Bigelow. No. 981,364; Jan. 10; Sp. p. 2722; Gaz. vol. 162; p. 442.
Transplanter. B. Wieler, A. Beuligmann, and J. Ayres. No. 981,509; Jan. 10; Sp. p. 3015; Gaz. vol. 162; p. 491.
Transplanter. J. B. Carpenter. No. 982,575; Jan. 24; Sp. p. 5278; Gaz. vol. 162; p. 911.
Transplanter. A. G. Jacobs. No. 985,596; Feb. 28; Sp. p. 5088; Gaz. vol. 163; p. 900.
Transplanter. E. Schlatter. No. 1,007,241; Oct. 31; Sp. p. 5934; Gaz. vol. 171; p. 1083.
Transplanter, Hand-. J. W. Thompson. No. 1,007,752; Nov. 7; Sp. p. 227; Gaz. vol. 172; p. 36.
Transplanting-machine. A. Larose. No. 997,923; July 11; Sp. p. 2835; Gaz. vol. 168; p. 485.
Transplanting machine, Tree-. A. Hill. No. 986,390; Mar. 7; Sp. p. 1336; Gaz. vol. 164; p. 215.
Transplating-pot. C. Kleeman. No. 980,873; Jan. 3; Sp. p. 1489; Gaz. vol. 162; p. 239.
Transportation-scrip and mileage-ticket. C. Messick. No. 1,011,223; Dec. 12; Sp. p. 1857; Gaz. vol. 173; p. 321.
Transportation system, Cable. F. Neale. No. 987,253; Mar. 21; Sp. p. 3155; Gaz. vol. 164; p. 571.
Transportation system for vehicles and their cargoes. D. E. Falvey. No. 986,153; Mar. 7; Sp. p. 821; Gaz. vol. 164; p. 134.
Transporting bodies, Approach for moving. E. L. Hocquart. No. 982,816; Jan. 31; Sp. p. 5795; Gaz. vol. 162; p. 1020.
Transporting mechanism. M. F. vom Hoff. No. 993,684; May 30; Sp. p. 6149; Gaz. vol. 166; p. 1112.
Trap: *See* Animal-trap; Ant-trap; Antisiphoning trap; Ash-trap; Ball-trap; Bath-trap; Burglar-trap; Cage-trap; Car-vestibule trap; Cockroach-trap; Concentrating-trap; Dust-trap; Electric trap; Electrocuting-trap; Fish-trap; Fly-trap; Frog-trap; Gopher-trap; Insect-Trap; Insect catching and destroying trap; Intercepting-trap; Light-trap; Liquid-trap; Minnow-trap; Mouse-trap; Pipe-trap; Plumber's trap; Pump sand-trap; Rat-trap; Rat catching and electrocuting trap; Rat or mouse trap; Refrigerator-trap; Sanitary trap; Self-setting trap; Separator-trap; Sewer-trap; Spring-trap; Steam-trap; Steel trap; Steel jaw-trap; Target-trap; Target-throwing trap; Water-trap; Weevil-trap; Wicket-trap.
Trap. T. Hardegen. No. 982,001; Jan. 17; Sp. p. 4100; Gaz. vol. 162; p. 683.
Trap. W. Parker. No. 982,387; Jan. 24; Sp. p. 4888; Gaz. vol. 162; p. 847.
Trap. D. F. Runion. No. 983,934; Feb. 14; Sp. p. 1482; Gaz. vol. 163; p. 261.
Trap. W. H. Kennedy. No. 986,010; Mar. 7; Sp. p. 553; Gaz. vol. 164; p. 88.
Trap. A. P. Lambert. No. 986,015; Mar. 7; Sp. p. 563; Gaz. vol. 164; p. 90.
Trap. H. Scott. No. 986,088; Mar. 7; Sp. p. 708; Gaz. vol. 164; p. 113.
Trap. J. L. Whitney. No. 986,254; Mar. 7; Sp. p. 1043; Gaz. vol. 164; p. 167.
Trap. A. C. Warner. No. 986,612; Mar. 14; Sp. p. 1817; Gaz. vol. 164; p. 322.
Trap. W. J. Clark. No. 987,284; Mar. 21; Sp. p. 3226; Gaz. vol. 164; p. 582.
Trap. L. C. Accola. No. 987,530; Mar. 21; Sp. p. 3716; Gaz. vol. 164; p. 664.
Trap. A. Fauls. No. 988,259; Mar. 28; Sp. p. 5308; Gaz. vol. 164; p. 939.
Trap. G. W. Crabtree. No. 988,863; Apr. 4; Sp. p. 1208; Gaz. vol. 165; p. 193.
Trap. J. L. Hayes. No. 990,129; Apr. 18; Sp. p. 3922; Gaz. vol. 165; p. 676.
Trap. W. H. Watkins. No. 995,207; June 13; Sp. p. 2399; Gaz. vol. 167; p. 416.
Trap. A. F. Elder. No. 995,233; June 13; Sp. p. 2459; Gaz. vol. 167; p. 425.
Trap. H. A. Stilson. No. 995,733; June 20; Sp. p. 3579; Gaz. vol. 167; p. 629.
Trap. E. H. Dierks. No. 996,067; June 27; Sp. p. 4294; Gaz. vol. 167; p. 779.
Trap. R. M. Franklin. No. 997,123; July 4; Sp. p. 1104; Gaz. vol. 168; p. 179.
Trap. J. C. McAtee. No. 997,841; July 11; Sp. p. 2657; Gaz. vol. 168; p. 456.
Trap. H. A. Stilson. No. 998,047; July 18; Sp. p. 3133; Gaz. vol. 168; p. 570.
Trap. H. W. Miller. No. 998,256; July 18; Sp. p. 3589; Gaz. vol. 168; p. 644.
Trap. J. S. Anderson. No. 1,000,358; Aug. 15; Sp. p. 2430; Gaz. vol. 169; p. 457.
Trap. S. M. McDaniel. No. 1,002,925; Sept. 12; Sp. p. 1681; Gaz. vol. 170; p. 290.
Trap. T. H. Taylor. No. 1,003,303; Sept. 12; Sp. p. 2451; Gaz. vol. 170; p. 422.
Trap. A. Norstebon and N. Nelson. No. 1,005,868; Oct. 17; Sp. p. 2845; Gaz. vol. 171; p. 517.
Trap. J. A. Johnson, Jr. No. 1,008,967; Nov. 14; Sp. p. 2987; Gaz. vol. 172; p. 498.
Trap. M. O. Cox. No. 1,009,283; Nov. 21; Sp. p. 3710; Gaz. vol. 172; p. 646.
Trap. R. H. Harris. No. 1,010,256; Nov. 28; Sp. p. 5712; Gaz. vol. 172; p. 1021.
Trap. R. A. Jones and W. C. Grant. No. 1,010,373; Nov. 28; Sp. p. 5968; Gaz. vol. 172; p. 1060.
Trap. J. Emel, Sr. No. 1,010,605; Dec. 5; Sp. p. 465; Gaz. vol. 173; p. 72.
Trap. W. P. McCombs. No. 1,012,400; Dec. 19; Sp. p. 4471; Gaz. vol. 173; p. 766.
Trap-operating means. C. D. Tillison. No. 1,007,616; Oct. 31; Sp. p. 6740; Gaz. vol. 171; p. 1212.
Trap-setting device. J. J. Schofield. No. 981,887; Jan. 17; Sp. p. 3802; Gaz. vol. 162; p. 643.
Traps, Air-inlet for. B. E. Slack. No. 1,001,779; Aug. 29; Sp. p. 5509; Gaz. vol. 169; p. 1012.
Traps and clean-outs for soil-pipes, Cover for. L. and F. Nair. No. 986,847; Mar. 14; Sp. p. 2316; Gaz. vol. 164; p. 401.
Traveling-grate furnace. H. A. Poppenhusen. No. 1,003,503; Sept. 19; Sp. p. 2861; Gaz. vol. 170; p. 523.
Traveling shears. J. T. McGrath. No. 997,686; July 11; Sp. p. 2268; Gaz. vol. 168; p. 401.
Tray. C. H. Clark and W. H. Van Dyne. No. 995,114; June 13; Sp. p. 2224; Gaz. vol. 167; p. 387.

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Tray. W. H. Rapp. No. 1,010,801; Dec. 5; Sp. p. 894; Gaz. vol. 173; p. 140.
Tray, Baker's. E. E. Brodhead. No. 1,007,670; Nov. 7; Sp. p. 19; Gaz. vol. 172; p. 6.
Tray, Electrically-heated. F. L. Crombie. No. 1,005,166; Oct. 10; Sp. p. 1269; Gaz. vol. 171; p. 236.
Tray, Letter-. E. L. Dennis. No. 994,984; June 13; Sp. p. 1964; Gaz. vol. 167; p. 344.
Tray-machine. F. E. Kuster. No. 988,359; Apr. 4; Sp. p. 136; Gaz. vol. 165; p. 25.
Tray, Ring-. W. B. Dahl. No. 989,571; Apr. 18; Sp. p. 2737; Gaz. vol. 165; p. 488.
Tray, Sectional honey-. R. L. Gaylord. No. 1,010,392; Dec. 5; Sp. p. 1096; Gaz. vol. 173; p. 172.
Tray, Stacking-. T. W. Bunte. No. 1,008,239; Nov. 7; Sp. p. 1279; Gaz. vol. 172; p. 209.
Tray-support. C. F. Booth. No. 990,519; Apr. 25; Sp. p. 4857; Gaz. vol. 165; p. 847.
Tread, Safety-. T. P. Farmer. No. 990,968; May 2; Sp. p. 301; Gaz. vol. 166; p. 52.
Treadle. E. Vallette. No. 996,301; June 27; Sp. p. 4859; Gaz. vol. 167; p. 857.
Treadle, Folding. T. Danquard. No. 1,008,310; Nov. 14; Sp. p. 1484; Gaz. vol. 172; p. 272.
Treating materials. F. W. Yost. No. 1,003,682; Sept. 19; Sp. p. 3261; Gaz. vol. 170; p. 586.
Treating materials. F. W. Yost. No. 1,003,683; Sept. 19; Sp. p. 3268; Gaz. vol. 170; p. 587.
Treating materials. F. W. Yost. No. 1,003,684; Sept. 19; Sp. p. 3275; Gaz. vol. 170; p. 587.
Tree: *See* Boot-tree; Christmas tree; Clothes-tree; Hall-tree; Shoe-tree; Swingletree; Wardrobe-tree.
Tree and brush cutter. R. L. Andrews. No. 984,412; Feb. 14; Sp. p. 2494; Gaz. vol. 163; p. 422.
Tree-bundling machine. A. N. Johnson. No. 988,347; Apr. 4; Sp. p. 114; Gaz. vol. 165; p. 21.
Tree-felling machine. W. A. Gröndahl. No. 1,002,678; Sept. 5; Sp. p. 1096; Gaz. vol. 170; p. 165.
Tree-prop, Extension. C. P. Tatro. No. 999,908; Aug. 8; Sp. p. 1435; Gaz. vol. 169; p. 273.
Tree-protector. R. H. Bremer. No. 989,325; Apr. 11; Sp. p. 2199; Gaz. vol. 165; p. 373.
Tree-trimmer. G. A. Strong. No. 1,010,817; Dec. 5; Sp. p. 921; Gaz. vol. 173; p. 145.
Tree ventilator, Fruit-. S. Dennis. No. 1,011,170; Dec. 12; Sp. p. 1743; Gaz. vol. 173; p. 304.
Trees for extracting sap, Treating. J. T. Gilmer. No. 1,012,541; Dec. 19; Sp. p. 4743; Gaz. vol. 173; p. 815.
Trees, Vermin and bug shield for. A. M. and R. D. Barry. No. 983,114; Jan. 31; Sp. p. 6448; Gaz. vol. 162; p. 1120.
Trench-filling machine. C. A. Kenney. No. 992,359; May 16; Sp. p. 3309; Gaz. vol. 166; p. 596.
Trestle. G. Marsh. No. 986,189; Mar. 7; Sp. p. 904; Gaz. vol. 164; p. 146.
Trestle. J. Dannebohm. No. 1,011,923; Dec. 19; Sp. p. 3435; Gaz. vol. 173; p. 602.
Trestle, Adjustable. A. C. Boyer. No. 1,001,344; Aug. 22; Sp. p. 4622; Gaz. vol. 169; p. 835.
Trestle-clamp. F. P. Douglass. No. 993,229; May 23; Sp. p. 5128; Gaz. vol. 166; p. 924.
Trestle-jack. O. Nelson. No. 1,002,741; Sept. 5; Sp. p. 1258; Gaz. vol. 170; p. 188.
Trestle, Knockdown. J. W. Smith. No. 1,010,458; Dec. 5; Sp. p. 104; Gaz. vol. 173; p. 21.
Triangle, Drafting-. R. Saas. No. 987,917; Mar. 28; Sp. p. 4592; Gaz. vol. 164; p. 826.
Triangle, Draftsman's. F. I. Du Pont. No. 1,012,340; Dec. 19; Sp. p. 4365; Gaz. vol. 173; p. 747.
Trick-box. A. A. Heidtmann. No. 988,191; Mar. 28; Sp. p. 5173; Gaz. vol. 164; p. 917.
Trick device. J. A. Petrie. No. 1,010,794; Dec. 5; Sp. p. 882; Gaz. vol. 173; p. 138.
Tricycle. D. Crockett. No. 997,439; July 11; Sp. p. 1747; Gaz. vol. 168; p. 317.
Tricycle. W. W. Annable. No. 1,006,518; Oct. 24; Sp. p. 4322; Gaz. vol. 171; p. 775.
Trigger safety-lock. H. F. Siegel. No. 989,817; Apr. 18; Sp. p. 3280; Gaz. vol. 165; p. 572.
Trigging device. H. Platt. No. 995,714; June 20; Sp. p. 3529; Gaz. vol. 167; p. 622.
Trimmer: *See* Grass-trimmer; Hedge-trimmer; Hoof-trimmer; Lawn-trimmer; Lawn-edge trimmer; Shade-trimmer; Tree-trimmer.
Trimming. F. A. Byram. No. 996,001; June 20; Sp. p. 4142; Gaz. vol. 167; p. 721.
Trimming-machine. A. Latham. No. 1,011,451; Dec. 12; Sp. p. 2355; Gaz. vol. 173; p. 402.
Trimming mechanism, Adjustable. A. W. Le Boeuf. No. 998,619; July 25; Sp. p. 4392; Gaz. vol. 168; p. 804.
Trip-block. F. P. Sneed. No. 995,300; June 13; Sp. p. 2582; Gaz. vol. 167; p. 447.
Tripod. F. L. Watrous. No. 992,395; May 16; Sp. p. 3379; Gaz. vol. 166; p. 609.
Tripod. F. W. Barnes. No. 1,007,322; Oct. 31; Sp. p. 6101; Gaz. vol. 171; p. 1111.
Tripod. F. W. Barnes. No. 1,009,374; Nov. 21; Sp. p. 3921; Gaz. vol. 172; p. 679.
Tripod, Camera-. I. W. Boeshans. No. 1,004,352; Sept. 26; Sp. p. 4764; Gaz. vol. 170; p. 842.
Tripod with hinged legs. F. Meyer. No. 1,000,618; Aug. 15; Sp. p. 3042; Gaz. vol. 169; p. 553.
Tripping mechanism. W. Scott. No. 981,484; Jan. 10; Sp. p. 2976; Gaz. vol. 162; p. 483.
Trolley. F. M. Russell. No. 980,344; Jan. 3; Sp. p. 328; Gaz. vol. 162; p. 59.
Trolley. F. Stone. No. 986,240; Mar. 7; Sp. p. 1012; Gaz. vol. 164; p. 162.
Trolley. J. S. McCabe. No. 986,842; Mar. 14; Sp. p. 2303; Gaz. vol. 164; p. 399.
Trolley. C. H. Bierbaum. No. 988,754; Apr. 4; Sp. p. 1000; Gaz. vol. 165; p. 159.
Trolley. F. H. Howard. No. 991,207; May 2; Sp. p. 813; Gaz. vol. 166; p. 138.
Trolley. V. Pedersen. No. 991,231; May 2; Sp. p. 858; Gaz. vol. 166; p. 146.
Trolley. W. W. Irwin. No. 997,135; July 4; Sp. p. 1129; Gaz. vol. 168; p. 183.
Trolley. J. Wdowicki. No. 997,165; July 4; Sp. p. 1207; Gaz. vol. 168; p. 194.
Trolley. E. Y. Moore. No. 997,690; July 11; Sp. p. 2273; Gaz. vol. 168; p. 403.
Trolley. R. Black. No. 999,624; Aug. 1; Sp. p. 840; Gaz. vol. 169; p. 147.
Trolley. G. E. Palmer. No. 1,000,116; Aug. 8; Sp. p. 1908; Gaz. vol. 169; p. 344.
Trolley. A. Nash. No. 1,000,189; Aug. 8; Sp. p. 2074; Gaz. vol. 169; p. 369.
Trolley. C. A. Gouty. No. 1,001,636; Aug. 29; Sp. p. 5193; Gaz. vol. 169; p. 963.
Trolley. F. Criest. No. 1,003,881; Sept. 19; Sp. p. 3671; Gaz. vol. 170; p. 653.
Trolley. S. M. Balzer. No. 1,005,794; Oct. 17; Sp. p. 2673; Gaz. vol. 171; p. 490.
Trolley. F. H. Howard. No. 1,008,543; Nov. 14; Sp. p. 2071; Gaz. vol. 172; p. 354.
Trolley. H. Jolly. No. 1,008,968; Nov. 14; Sp. p. 2988; Gaz. vol. 172; p. 498.
Trolley. G. Friválszky. No. 1,010,889; Dec. 5; Sp. p. 1091; Gaz. vol. 173; p. 171.
Trolley. C. and J. Kordek. No. 1,010,922; Dec. 5; Sp. p. 1167; Gaz. vol. 173; p. 183.
Trolley. W. E. Marshall. No. 1,011,462; Dec. 12; Sp. p. 2382; Gaz. vol. 173; p. 407.
Trolley and trolley-support. C. E. Eveleth. No. 1,003,890; Sept. 19; Sp. p. 3684; Gaz. vol. 170; p. 656.
Trolley attachment. F. J. Moeller and F. J. Seyerle. No. 984,286; Feb. 14; Sp. p. 2257; Gaz. vol. 163; p. 381.
Trolley attachment. J. P. Henderson. No. 1,004,785; Oct. 3; Sp. p. 511; Gaz. vol. 171; p. 84.
Trolley-boom swinger, Coal-tower-. H. L. Hurd. No. 981,268; Jan. 10; Sp. p. 2513; Gaz. vol. 162; p. 409.
Trolley-catcher. F. W. Geoghegan. No. 1,002,983; Sept. 12; Sp. p. 1787; Gaz. vol. 170; p. 309.
Trolley-circuit closer. G. R. Livergood and B. C. Donnelly. No. 985,685; Feb. 28; Sp. p. 5261; Gaz. vol. 163; p. 929.
Trolley-clamp. E. Y. Moore. No. 999,393; Aug. 1; Sp. p. 399; Gaz. vol. 169; p. 71.
Trolley-control system. F. E. Case. No. 1,000,779; Aug. 15; Sp. p. 3385; Gaz. vol. 169; p. 608.
Trolley-cord-grounding device. F. E. Case. No. 1,011,741; Dec. 12; Sp. p. 3024; Gaz. vol. 173; p. 505.
Trolley-crossing, Insulated adjustable. H. W. Clapp and B. C. Edgar. No. 1,010,722; Dec. 5; Sp. p. 715; Gaz. vol. 173; p. 113.
Trolley device. J. H. Finch, Jr. No. 1,009,059; Nov. 21; Sp. p. 3199; Gaz. vol. 172; p. 566.
Trolley, Electric-railway. J. H. Mountain. No. 997,576; July 11; Sp. p. 2028; Gaz. vol. 168; p. 362.
Trolley frog and crossing. R. E. Noble and L. E. Mitchell. No. 1,004,811; Oct. 3; Sp. p. 566; Gaz. vol. 171; p. 93.
Trolley-guard. C. Heron. No. 990,870; May 2; Sp. p. 98; Gaz. vol. 166; p. 18.
Trolley guard and finder. H. E. Bayer. No. 1,005,797; Oct. 17; Sp. p. 2678; Gaz. vol. 171; p. 492.
Trolley-guard attachment. G. J. Burns. No. 998,674; July 25; Sp. p. 4518; Gaz. vol. 168; p. 824.
Trolley-guard, Resilient. J. P. Hoffer. No. 1,003,906; Sept. 19; Sp. p. 3711; Gaz. vol. 170; p. 661.
Trolley-guide. E. De Planque. No. 992,174; May 16; Sp. p. 2853; Gaz. vol. 166; p. 531.
Trolley-harp. I. H. Black. No. 989,323; Apr. 11; Sp. p. 2196; Gaz. vol. 165; p. 373.
Trolley-harp. J. L. Perkins and C. W. Putnam. No. 993,792; May 30; Sp. p. 6376; Gaz. vol. 166; p. 1149.
Trolley-harp. J. A. Norton. No. 1,000,034; Aug. 8; Sp. p. 1683; Gaz. vol. 169; p. 316.
Trolley-harp. J. T. Archer. No. 1,004,962; Oct. 3; Sp. p. 885; Gaz. vol. 171; p. 145.
Trolley-head. A. Shaver. No. 986,027; Mar. 7; Sp. p. 587; Gaz. vol. 164; p. 94.
Trolley-head. J. F. McKinzie. No. 989,626; Apr. 18; Sp. p. 2866; Gaz. vol. 165; p. 506.
Trolley-head. P. Brandell. No. 997,957; July 18; Sp. p. 2932; Gaz. vol. 168; p. 538.
Trolley-head. J. J. Bennett. No. 1,004,618; Oct. 3; Sp. p. 155; Gaz. vol. 171; p. 27.
Trolley head and harp. J. Siragusa and R. E. Wood. No. 994,039; May 30; Sp. p. 6863; Gaz. vol. 166; p. 1232.

Alphabetical list of inventions—Continued.

Trolley, High-speed. A. H. Armstrong. No. 1,003,862; Sept. 19; Sp. p. 3636; Gaz. vol. 170; p. 646.
Trolley-hoist. E. Y. Moore. No. 1,005,452; Oct. 10; Sp. p. 1921; Gaz. vol. 171; p. 339.
Trolley, Overhead. H. D. Murdock. No. 989,394; Apr. 11; Sp. p. 2339; Gaz. vol. 165; p. 395.
Trolley, Overhead. J. H. Howard. No. 1,006,382; Oct. 17; Sp. p. 4001; Gaz. vol. 171; p. 697.
Trolley-placer. W. D. Reist. No. 1,002,755; Sept. 5; Sp. p. 1279; Gaz. vol. 170; p. 192.
Trolley-pole. F. L. Cross. No. 981,535; Jan. 10; Sp. p. 3069; Gaz. vol. 162; p. 501.
Trolley-pole. C. E. Bradford. No. 989,112; Apr. 11; Sp. p. 1723; Gaz. vol. 165; p. 300.
Trolley-pole. O. W. Swanson. No. 991,389; May 2; Sp. p. 1206; Gaz. vol. 166; p. 200.
Trolley-pole. J. Coan. No. 1,001,251; Aug. 22; Sp. p. 4411; Gaz. vol. 169; p. 802.
Trolley-pole arrester. R. S. Lillico. No. 1,010,651; Dec. 5; Sp. p. 555; Gaz. vol. 173; p. 88.
Trolley-pole attachment. F. H. Crane. No. 991,957; May 9; Sp. p. 2401; Gaz. vol. 166; p. 427.
Trolley-pole attachment. W. A. Peffer. No. 994,030; May 30; Sp. p. 6847; Gaz. vol. 166; p. 1229.
Trolley-pole, Automatic. J. W. Lang. No. 984,767; Feb. 21; Sp. p. 3302; Gaz. vol. 163; p. 582.
Trolley-pole base and catcher, Combined. H. E. Vail. No. 1,009,357; Nov. 21; Sp. p. 3867; Gaz. vol. 172; p. 673.
Trolley-pole-controlling mechanism. M. Kern. No. 992,360; May 16; Sp. p. 3311; Gaz. vol. 166; p. 596.
Trolley-pole coupling, Detachable. O. W. Smith. No. 995,810; June 20; Sp. p. 3758; Gaz. vol. 167; p. 656.
Trolley-pole-operating means. A. A. Strange and W. Anderson. No. 991,039; May 2; Sp. p. 440; Gaz. vol. 166; p. 76.
Trolley-pole support. A. Feja. No. 1,007,438; Oct. 31; Sp. p. 6345; Gaz. vol. 171; p. 1152.
Trolley-poles, Pressure-controlled operating means for. A. A. Strange and W. Anderson. No. 991,040; May 2; Sp. p. 443; Gaz. vol. 166; p. 76.
Trolley-restorer. W. H. Stebbins, Jr. No. 984,712; Feb. 21; Sp. p. 3181; Gaz. vol. 163; p. 563.
Trolley-retriever. R. F. Levens and A. H. Whatley. No. 981,865; Jan. 17; Sp. p. 3759; Gaz. vol. 162; p. 636.
Trolley, Safety-. G. Sitka. No. 995,191; June 13; Sp. p. 2376; Gaz. vol. 167; p. 412.
Trolley-signals, Circuit-closer for. W. M. Chapman. No. 1,006,996; Oct. 24; Sp. p. 5366; Gaz. vol. 171; p. 942.
Trolley-stand. B. B. Bowers. No. 985,654; Feb. 28; Sp. p. 5196; Gaz. vol. 163; p. 919.
Trolley-switch. C. P. Nachod. No. 992,035; May 9; Sp. p. 2538; Gaz. vol. 166; p. 452.
Trolley-switch for station-indicators, &c. O. E. Kellum. No. 999,312; Aug. 1; Sp. p. 226; Gaz. vol. 169; p. 42.
Trolley-system street-indicating device. W. C. Bisell. No. 1,009,637; Nov. 21; Sp. p. 4448; Gaz. vol. 172; p. 767.
Trolley-track safety-switch. C. M. Ayres. No. 981,237; Jan. 10; Sp. p. 2454; Gaz. vol. 162; p. 398.
Trolley tracks, Switch construction for overhead-. H. Sawyer. No. 1,000,124; Aug. 8; Sp. p. 1930; Gaz. vol. 169; p. 347.
Trolley tracks, Switch for overhead-. N. Whichello. No. 1,000,136; Aug. 8; Sp. p. 1952; Gaz. vol. 169; p. 351.
Trolley-wheel. J. L. Perkins, C. W. Putnam, and C. M. Munson. No. 980,432; Jan. 3; Sp. p. 528; Gaz. vol. 162; p. 89.
Trolley-wheel. J. A. Deady. No. 992,484; May 16; Sp. p. 3566; Gaz. vol. 166; p. 639.
Trolley-wheel. J. R. Gilman. No. 992,713; May 16; Sp. p. 4021; Gaz. vol. 166; p. 718.
Trolley-wheel. L. J. Tetlow. No. 1,000,854; Aug. 15; Sp. p. 3527; Gaz. vol. 169; p. 634.
Trolley-wheel. C. M. Brennan. No. 1,002,128; Aug. 29; Sp. p. 6237; Gaz. vol. 169; p. 1128.
Trolley-wheel. J. Spaeth and A. Tokarski. No. 1,003,380; Sept. 12; Sp. p. 2598; Gaz. vol. 170; p. 447.
Trolley-wheel. A. C. Sloan. No. 1,006,303; Oct. 17; Sp. p. 3831; Gaz. vol. 171; p. 671.
Trolley wheel and finder. B. R. Beach. No. 1,011,723; Dec. 12; Sp. p. 2992; Gaz. vol. 173; p. 498.
Trolley wheel, Electric-. W. H. Bean. No. 997,262; July 11; Sp. p. 1400; Gaz. vol. 168; p. 258.
Trolley-wheel-restoring device. J. D. Carey. No. 991,423; May 2; Sp. p. 1266; Gaz. vol. 166; p. 212.
Trolley-wheel support. C. A. Welsbacher and J. Staub. No. 1,008,506; Nov. 14; Sp. p. 1994; Gaz. vol. 172; p. 341.
Trolley-wire hanger. W. A. McCallum. No. 986,843; Mar. 14; Sp. p. 2305; Gaz. vol. 164; p. 399.
Trolley-wire-splicing shield. G. Wiedenbeck. No. 995,643; June 20; Sp. p. 3389; Gaz. vol. 167; p. 597.
Trolley-wires and the like, Suspension device for. G. A. Mead. No. 1,007,370; Oct. 31; Sp. p. 6193; Gaz. vol. 171; p. 1129.
Trolley-wires, Device for cutting sleet from. E. Slingluff. No. 1,005,483; Oct. 10; Sp. p. 1989; Gaz. vol. 171; p. 350.
Trolley-wires, Insulating-hanger for. J. L. Wagner. No. 987,515; Mar. 21; Sp. p. 3696; Gaz. vol. 164; p. 660.
Trolley-wires of electric railways, Catenary suspension device for. W. A. McCallum. No. 995,621; June 20; Sp. p. 3342; Gaz. vol. 167; p. 589.
Trolling-hook. E. and W. Hautala. No. 999,559; Aug. 1; Sp. p. 730; Gaz. vol. 169; p. 125.
Trolling-hook. J. P. Telford. No. 1,002,785; Sept. 5; Sp. p. 1338; Gaz. vol. 170; p. 202.
Trombone-lock. A. E. Klingler. No. 1,006,229; Oct. 17; Sp. p. 3661; Gaz. vol. 171; p. 645.
Trombone, Slide-. L. S. Shields. No. 987,922; Mar. 28; Sp. p. 4602; Gaz. vol. 164; p. 828.
Trough: *See* Conveyer-trough; Eaves-trough; Feed-trough; Feeding-trough; Filter-trough; Hog-trough; Hog-scalding trough; Watering-trough.
Trough arm-sling or the like. W. C. Wermuth. No. 980,464; Jan. 3; Sp. p. 616; Gaz. vol. 162; p. 101.
Trousers. A. W. Stern. No. 987,412; Mar. 21; Sp. p. 3498; Gaz. vol. 164; p. 625.
Trousers. H. Jacobs. No. 1,000,812; Aug. 15; Sp. p. 3445; Gaz. vol. 169; p. 620.
Trousers. J. Fishman. No. 1,005,526; Oct. 10; Sp. p. 2076; Gaz. vol. 171; p. 365.
Trousers. I. E. Mayer and O. C. Yates. No. 1,012,395; Dec. 19; Sp. p. 4461; Gaz. vol. 173; p. 764.
Trousers. M. J. Nathan and W. E. Glutsch. No. 1,012,897; Dec. 26; Sp. p. 5567; Gaz. vol. 173; p. 982.
Trousers and garment hanger. C. T. Seipp. No. 1,012,169; Dec. 19; Sp. p. 3990; Gaz. vol. 173; p. 688.
Trousers-belt fastener. J. Neuman. No. 988,134; Mar. 28; Sp. p. 5070; Gaz. vol. 164; p. 900.
Trousers-creaser. J. A. Doley. No. 996,912; July 4; Sp. p. 652; Gaz. vol. 168; p. 106.
Trousers-creaser. A. Dombrowsky. No. 1,004,390; Sept. 26; Sp. p. 4845; Gaz. vol. 170; p. 855.
Trousers' creaser and stretcher. W. Dixon. No. 1,003,039; Sept. 12; Sp. p. 1895; Gaz. vol. 170; p. 327.
Trousers-fastening device. F. H. Sprague. No. 1,008,441; Nov. 14; Sp. p. 1842; Gaz. vol. 172; p. 317.
Trousers-hanger. J. D. Coney. No. 992,855; May 23; Sp. p. 4341; Gaz. vol. 166; p. 798.
Trousers-protector. T. C. Young. No. 1,005,401; Oct. 10; Sp. p. 1809; Gaz. vol. 171; p. 322.
Trousers-stretcher. J. H. Berry. No. 986,893; Mar. 14; Sp. p. 2425; Gaz. vol. 164; p. 419.
Trousers-stretcher. E. R. Brinker. No. 992,402; May 16; Sp. p. 3395; Gaz. vol. 166; p. 611.
Trousers-stretcher. A. E. Eastlund. No. 996,570; June 27; Sp. p. 5422; Gaz. vol. 167; p. 948.
Trousers-stretcher. E. P. Dorward. No. 1,010,241; Nov. 28; Sp. p. 5692; Gaz. vol. 172; p. 1017.
Trousers-supporter. I. S. Perkins. No. 984,441; Feb. 14; Sp. p. 2553; Gaz. vol. 163; p. 433.
Trousers-supporter. A. R. Bryte. No. 991,694; May 9; Sp. p. 1883; Gaz. vol. 166; p. 340.
Trowel. C. C. Wright. No. 989,684; Apr. 18; Sp. p. 2988; Gaz. vol. 165; p. 526.
Trowel. T. N. Wilson. No. 1,003,388; Sept. 12; Sp. p. 2618; Gaz. vol. 170; p. 449.
Trowel. J. R. Morris. No. 1,005,279; Oct. 10; Sp. p. 1538; Gaz. vol. 171; p. 278.
Truck. A. L. Hoover. No. 981,761; Jan. 17; Sp. p. 3534; Gaz. vol. 162; p. 599.
Truck. J. J. Laber. No. 986,580; Mar. 14; Sp. p. 1749; Gaz. vol. 164; p. 310.
Truck. B. A. Ballinger. No. 990,416; Apr. 25; Sp. p. 4608; Gaz. vol. 165; p. 810.
Truck. E. M. West. No. 990,936; May 2; Sp. p. 230; Gaz. vol. 166; p. 40.
Truck. G. W. Smith. No. 992,276; May 16; Sp. p. 3105; Gaz. vol. 166; p. 565.
Truck. E. M. West. No. 993,008; May 23; Sp. p. 4673; Gaz. vol. 166; p. 852.
Truck. S. Cyr. No. 993,037; May 23; Sp. p. 4736; Gaz. vol. 166; p. 862.
Truck. W. J. McCoy. No. 993,265; May 23; Sp. p. 5212; Gaz. vol. 166; p. 935.
Truck. E. Langille. No. 996,723; July 4; Sp. p. 251; Gaz. vol. 168; p. 44.
Truck. W. J. McCoy. No. 1,000,102; Aug. 8; Sp. p. 1877; Gaz. vol. 169; p. 339.
Truck. H. C. Grant. No. 1,001,587; Aug. 22; Sp. p. 5079; Gaz. vol. 169; p. 915.
Truck. W. Z. Haight. No. 1,006,083; Oct. 17; Sp. p. 3313; Gaz. vol. 171; p. 591.
Truck. R. W. Rosebrough. No. 1,006,287; Oct. 17; Sp. p. 3801; Gaz. vol. 171; p. 666.
Truck. I. M. De Pew. No. 1,006,364; Oct. 17; Sp. p. 3971; Gaz. vol. 171; p. 692.
Truck. W. G. Winans. No. 1,006,891; Oct. 24; Sp. p. 5165; Gaz. vol. 171; p. 907.
Truck. W. C. Smith. No. 1,006,985; Oct. 24; Sp. p. 5349; Gaz. vol. 171; p. 938.
Truck. E. B. King. No. 1,012,139; Dec. 19; Sp. p. 3926; Gaz. vol. 173; p. 679.
Truck. W. Kassebeer. No. 1,012,649; Dec. 26; Sp. p. 4991; Gaz. vol. 173; p. 896.
Truck and fodder-binder, Husking-. W. S. Ruffner. No. 981,477; Jan. 10; Sp. p. 2964; Gaz. vol. 162; p. 481.
Truck, Automatic. C. A. and O. S. Nordstrom. No. 1,005,063; Oct. 3; Sp. p. 1064; Gaz. vol. 171; p. 179.
Truck, Automobile-. H. L. Parrish. No. 1,005,065; Oct. 3; Sp. p. 1070; Gaz. vol. 171; p. 179.
Truck, Baggage-. T. V. Buckwalter. No. 993,823; May 30; Sp. p. 6446; Gaz. vol. 166; p. 1161.

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Truck-bolster. A. Becker. No. 1,011,310; Dec. 12; Sp. p. 2066; Gaz. vol. 173; p. 353.
Truck, Brickmaker's. B. C. Heater. No. 985,259; Feb. 28; Sp. p. 4336; Gaz. vol. 163; p. 784.
Truck, Can-. G. L. Stanley. No. 990,076; Apr. 18; Sp. p. 3808; Gaz. vol. 165; p. 660.
Truck, Car-. J. C. Barber. No. 980,739; Jan. 3; Sp. p. 1203; Gaz. vol. 162; p. 193.
Truck, Car-. J. C. Barber. No. 980,740; Jan. 3; Sp. p. 1206; Gaz. vol. 162; p. 193.
Truck, Car-. J. E. Osmer. No. 984,595; Feb. 21; Sp. p. 2922; Gaz. vol. 163; p. 520.
Truck, Car-. H. A. F. Campbell. No. 985,657; Feb. 28; Sp. p. 5202; Gaz. vol. 163; p. 919.
Truck, Car-. C. A. Lincoln. No. 986,185; Mar. 7; Sp. p. 897; Gaz. vol. 164; p. 145.
Truck, Car-. J. J. Sullivan. No. 986,242; Mar. 7; Sp. p. 1016; Gaz. vol. 164; p. 163.
Truck, Car-. J. Allison. No. 987,033; Mar. 14; Sp. p. 2673; Gaz. vol. 164; p. 462.
Truck, Car-. H. C. Buhoup. No. 987,695; Mar. 28; Sp. p. 4086; Gaz. vol. 164; p. 750.
Truck, Car-. A. J. McCauley. No. 989,859; Apr. 18; Sp. p. 3363; Gaz. vol. 165; p. 586.
Truck, Car-. S. P. Bush. No. 991,697; May 9; Sp. p. 1888; Gaz. vol. 166; p. 341.
Truck, Car-. C. A. Lindström. No. 993,083; May 23; Sp. p. 4839; Gaz. vol. 166; p. 878.
Truck, Car-. H. S. Hart. No. 993,522; May 30; Sp. p. 5779; Gaz. vol. 166; p. 1056.
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Truck, Car-. H. C. Buhoup. No. 994,635; June 6; Sp. p. 1120; Gaz. vol. 167; p. 184.
Truck, Car-. J. J. Byers. No. 996,000; June 20; Sp. p. 4141; Gaz. vol. 167; p. 721.
Truck, Car-. S. S. Knight. No. 997,395; July 11; Sp. p. 1666; Gaz. vol. 168; p. 302.
Truck, Car-. W. H. Heulings, Jr. No. 1,000,407; Aug. 15; Sp. p. 2549; Gaz. vol. 169; p. 475.
Truck, Car-. W. S. Adams. No. 1,000,480; Aug. 15; Sp. p. 2702; Gaz. vol. 169; p. 501.
Truck, Car-. S. S. Knight. No. 1,001,653; Aug. 29; Sp. p. 5226; Gaz. vol. 169; p. 969.
Truck, Car-. C. A. Lincoln. No. 1,003,277; Sept. 12; Sp. p. 2402; Gaz. vol. 170; p. 413.
Truck, Car-. H. C. Hodges. No. 1,006,943; Oct. 24; Sp. p. 5262; Gaz. vol. 171; p. 925.
Truck, Car-. H. M. Pflager and H. C. Van Buskirk. No. 1,007,140; Oct. 31; Sp. p. 5710; Gaz. vol. 171; p. 1047.
Truck, Car-. A. J. McCauley. No. 1,007,472; Oct. 31; Sp. p. 6404; Gaz. vol. 171; p. 1163.
Truck, Car-. A. J. McCauley. No. 1,007,473; Oct. 31; Sp. p. 6406; Gaz. vol. 171; p. 1163.
Truck, Car-. D. Gerber. No. 1,007,686; Nov. 7; Sp. p. 59; Gaz. vol. 172; p. 12.
Truck, Car-. P. Williams. No. 1,007,906; Nov. 7; Sp. p. 590; Gaz. vol. 172; p. 91.
Truck, Car-. G. Komarek. No. 1,008,721; Nov. 14; Sp. p. 2469; Gaz. vol. 172; p. 417.
Truck, Car-. K. M. Hamilton. No. 1,009,242; Nov. 21; Sp. p. 3612; Gaz. vol. 172; p. 630.
Truck, Car-. H. H. Hewitt. No. 1,009,747; Nov. 28; Sp. p. 4687; Gaz. vol. 172; p. 851.
Truck, Car-. W. S. Adams. No. 1,011,303; Dec. 12; Sp. p. 2043; Gaz. vol. 173; p. 351.
Truck, Car-. H. C. Stickel. No. 1,011,518; Dec. 12; Sp. p. 2511; Gaz. vol. 173; p. 427.
Truck construction for electric-railway signal systems, Car-. G. B. Gray. No. 1,008,030; Nov. 7; Sp. p. 827; Gaz. vol. 172; p. 132.
Truck construction, Motor-. W. R. McKeen, Jr. No. 980,546; Jan. 3; Sp. p. 804; Gaz. vol. 162; p. 129.
Truck, Dumping or unpacking. W. V. Ellis. No. 1,000,163; Aug. 8; Sp. p. 2007; Gaz. vol. 169; p. 359.
Truck, Electric-locomotive. A. F. Batchelder. No. 1,008,581; Nov. 14; Sp. p. 2164; Gaz. vol. 172; p. 369.
Truck, Elevating-. W. H. Thornburg. No. 981,329; Jan. 10; Sp. p. 2638; Gaz. vol. 162; p. 430.
Truck, Elevating-. J. L. Sellers. No. 985,212; Feb. 28; Sp. p. 4232; Gaz. vol. 163; p. 768.
Truck equalizer, Car-. O. B. Schoenky. No. 1,009,795; Nov. 28; Sp. p. 4788; Gaz. vol. 172; p. 867.
Truck for disk harrows, Transport-. J. W. Platt and H. F. Rodemeyer. No. 1,003,648; Sept. 19; Sp. p. 3184; Gaz. vol. 170; p. 573.
Truck for harvesters, Pole-. C. A. A. Rand. No. 991,540; May 9; Sp. p. 1530; Gaz. vol. 166; p. 284.
Truck for railway-cars, Compensating. A. J. Kellogg. No. 999,192; July 25; Sp. p. 5635; Gaz. vol. 168; p. 1002.
Truck-frame. A. L. Hastings. No. 1,006,549; Oct. 24; Sp. p. 4417; Gaz. vol. 171; p. 788.
Truck-frame. V. M. Summa. No. 1,009,112; Nov. 21; Sp. p. 3307; Gaz. vol. 172; p. 585.
Truck, Hand-. S. B. Brown. No. 980,485; Jan. 3; Sp. p. 669; Gaz. vol. 162; p. 109.
Truck, Hand-. F. Stebler. No. 990,402; Apr. 25; Sp. p. 4566; Gaz. vol. 165; p. 805.
Truck, Hand-. E. B. Eddy and W. R. Clark. No. 1,007,677; Nov. 7; Sp. p. 38; Gaz. vol. 172; p. 9.
Truck, Jack-. O. H. Ames. No. 983,418; Feb. 7; Sp. p. 334; Gaz. vol. 163; p. 57.
Truck loader, Lumber-. F. W. Karches. No. 999,310; Aug. 1; Sp. p. 223; Gaz. vol. 169; p. 42.
Truck, Loading-. T. S. Chesnutt. No. 991,137; May 2; Sp. p. 657; Gaz. vol. 166; p. 112.
Truck-lock, Automatic. J. C. McNaught. No. 985,363; Feb. 28; Sp. p. 4558; Gaz. vol. 163; p. 818.
Truck, Log-. G. Komarek. No. 1,008,921; Nov. 14; Sp. p. 2874; Gaz. vol. 172; p. 483.
Truck, Mowing-machine. A. Stahly. No. 987,836; Mar. 28; Sp. p. 4391; Gaz. vol. 164; p. 799.
Truck, Pivoted front steering-. P. E. Holt. No. 994,318; June 6; Sp. p. 437; Gaz. vol. 167; p. 76.
Truck, Radiator-. D. P. Larkins. No. 984,941; Feb. 21; Sp. p. 3631; Gaz. vol. 163; p. 640.
Truck, Rail-traversing. L. H. Flanders. No. 999,709; Aug. 1; Sp. p. 1006; Gaz. vol. 169; p. 175.
Truck, Railway-. A. M. Clark. No. 983,478; Feb. 7; Sp. p. 476; Gaz. vol. 163; p. 76.
Truck, Railway-. W. M. Fawcett and G. L. Swabb. No. 994,252; June 6; Sp. p. 311; Gaz. vol. 167; p. 54.
Truck, Railway-car. J. Chamberlin. No. 993,755; May 30; Sp. p. 6304; Gaz. vol. 166; p. 1137.
Truck, Reinforced car-. G. G. Floyd. No. 1,010,035; Nov. 28; Sp. p. 5292; Gaz. vol. 172; p. 948.
Truck, Shingle-. J. J. Botten. No. 993,341; May 30; Sp. p. 5383; Gaz. vol. 166; p. 995.
Truck, Shock-. G. Marshall. No. 998,707; July 25; Sp. p. 4586; Gaz. vol. 168; p. 835.
Truck side frame. E. C. Covert. No. 993,575; May 30; Sp. p. 5891; Gaz. vol. 166; p. 1074.
Truck side frame. E. C. Covert. No. 993,576; May 30; Sp. p. 5892; Gaz. vol. 166; p. 1074.
Truck side frame. E. C. Covert. No. 993,577; May 30; Sp. p. 5894; Gaz. vol. 166; p. 1074.
Truck side frame. E. C. Covert. No. 993,578; May 30; Sp. p. 5897; Gaz. vol. 166; p. 1074.
Truck side frame. E. C. Covert. No. 994,093; May 30; Sp. p. 6973; Gaz. vol. 166; p. 1250.
Truck side frame. A. O. Buckius, Jr. No. 995,949; June 20; Sp. p. 4043; Gaz. vol. 167; p. 703.
Truck side frame. A. O. Buckius, Jr. No. 996,035; June 20; Sp. p. 4218; Gaz. vol. 167; p. 732.
Truck side frame and journal-box, Car-. G. G. Floyd. No. 986,559; Mar. 14; Sp. p. 1711; Gaz. vol. 164; p. 303.
Truck side frame and journal-box, Car-. G. G. Floyd. No. 1,010,034; Nov. 28; Sp. p. 5290; Gaz. vol. 172; p. 948.
Truck side frame and tie-bar, Car-. J. A. Lamont. No. 1,009,979; Nov. 28; Sp. p. 5154; Gaz. vol. 172; p. 928.
Truck side frame, Car-. O. S. Pulliam. No. 987,014; Mar. 14; Sp. p. 2640; Gaz. vol. 164; p. 456.
Truck side frame, Car-. H. W. Blake. No. 990,189; Apr. 18; Sp. p. 4058; Gaz. vol. 165; p. 698.
Truck side frame, Car-. W. P. Bettendorf. No. 994,053; May 30; Sp. p. 6889; Gaz. vol. 166; p. 1237.
Truck side frame, Car-. W. D. Forsyth. No. 996,629; July 4; Sp. p. 76; Gaz. vol. 168; p. 13.
Truck side frame, Car-. V. M. Summa. No. 1,002,335; Sept. 5; Sp. p. 353; Gaz. vol. 170; p. 50.
Truck side frame, Car-. H. E. Doerr. No. 1,010,737; Dec. 5; Sp. p. 755; Gaz. vol. 173; p. 118.
Truck side frame, Car-. G. Komarek. No. 1,010,773; Dec. 5; Sp. p. 845; Gaz. vol. 173; p. 131.
Truck side-frame construction, Railway-car-. E. E. Bishop. No. 997,231; July 4; Sp. p. 1330; Gaz. vol. 168; p. 217.
Truck, Six-wheel. J. G. Lawler. No. 1,008,723; Nov. 14; Sp. p. 2472; Gaz. vol. 172; p. 418.
Truck, Tip-. K. Malcher. No. 1,010,655; Dec. 5; Sp. p. 562; Gaz. vol. 173; p. 89.
Truck, Tipping. K. Malcher. No. 995,618; June 20; Sp. p. 3335; Gaz. vol. 167; p. 587.
Truck, Tongue-. C. A. A. Rand. No. 991,019; May 2; Sp. p. 402; Gaz. vol. 166; p. 69.
Truck, Tongue-. C. A. A. Rand. No. 994,787; June 13; Sp. p. 1507; Gaz. vol. 167; p. 277.
Truck, Tray-. O. Olson. No. 987,592; Mar. 21; Sp. p. 3851; Gaz. vol. 164; p. 686.
Truck, Tie-. T. V. Buckwalter. No. 981,975; Jan. 17; Sp. p. 4044; Gaz. vol. 162; p. 674.
Truck, Vehicle-. R. Siegfried. No. 1,005,340; Oct. 10; Sp. p. 1686; Gaz. vol. 171; p. 301.
Truck, Vineyard and orchard. J. Porteous. No. 995,716; June 20; Sp. p. 3533; Gaz. vol. 167; p. 623.
Truck, Warehouse-. W. Vanmanen. No. 988,677; Apr. 4; Sp. p. 827; Gaz. vol. 165; p. 133.
Truck, Warehouse-. R. S. Bergsather. No. 990,187; Apr. 18; Sp. p. 4053; Gaz. vol. 165; p. 697.
Truck-wheel. W. H. Clark. No. 990,339; Apr. 25; Sp. p. 4418; Gaz. vol. 165; p. 782.
Trucks, Deck for. S. M. Chase. No. 990,110; Apr. 18; Sp. p. 3879; Gaz. vol. 165; p. 670.
Trucks, Engine-support for car-. W. W. Henderson. No. 987,802; Mar. 28; Sp. p. 4318; Gaz. vol. 164; p. 786.
Trucks, Suspension of railway and tramway vehicle-. J. E. Anger. No. 1,008,103; Nov. 7; Sp. p. 982; Gaz. vol. 172; p. 158.

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Trucks, Tension device for car-. C. H. Knobbs. No. 995,470; June 20; Sp. p. 2993; Gaz. vol. 167; p. 534.
Truing-machine. O. E. Hunt. No. 991,996; May 9; Sp. p. 2474; Gaz. vol. 166; p. 439.
Trunk. L. Doll. No. 983,693; Feb. 7; Sp. p. 949; Gaz. vol. 163; p. 150.
Trunk. G. Stocker. No. 993,469; May 30; Sp. p. 5664; Gaz. vol. 166; p. 1036.
Trunk. C. A. Kuntzendorf. No. 1,003,616; Sept. 19; Sp. p. 3122; Gaz. vol. 170; p. 562.
Trunk. S. Klein. No. 1,008,971; Nov. 14; Sp. p. 2994; Gaz. vol. 172; p. 499.
Trunk. S. W. Bonsall. No. 1,009,825; Nov. 28; Sp. p. 4856; Gaz. vol. 172; p. 877.
Trunk. E. W. Hawley. No. 1,012,354; Dec. 19; Sp. p. 4389; Gaz. vol. 173; p. 751.
Trunk. A. Davis. No. 1,012,606; Dec. 26; Sp. p. 4888; Gaz. vol. 173; p. 880.
Trunk and bed, Convertible. K. J. and C. W. Stump. No. 992,616; May 16; Sp. p. 3845; Gaz. vol. 166; p. 685.
Trunk, bed, and couch. C. F. D. Jackson. No. 1,005,709; Oct. 10; Sp. p. 2502; Gaz. vol. 171; p. 429.
Trunk-fastener. P. Mayfield. No. 986,841; Mar. 14; Sp. p. 2302; Gaz. vol. 164; p. 399.
Trunk-lock. J. G. Keene. No. 1,006,099; Oct. 17; Sp. p. 3344; Gaz. vol. 171; p. 597.
Trunk-roper. B. K. Deal. No. 1,011,326; Dec. 12; Sp. p. 2110; Gaz. vol. 173; p. 360.
Trunk roping and fastening appliance. J. M. Robinson. No. 987,321; Mar. 21; Sp. p. 3310; Gaz. vol. 164; p. 594.
Trunk, Wardrobe-. G. H. Wheary. No. 987,275; Mar. 21; Sp. p. 3213; Gaz. vol. 164; p. 580.
Trunk, Wardrobe-. W. C. Likly and J. J. Cannan. No. 1,011,631; Dec. 12; Sp. p. 2813; Gaz. vol. 173; p. 469.
Trunks and the like, Suspension fixture device for. C. T. and E. E. Wilt. No. 1,000,654; Aug. 15; Sp. p. 3112; Gaz. vol. 169; p. 564.
Trunks, Folding leg for. R. C. Bain. No. 995,942; June 20; Sp. p. 4033; Gaz. vol. 167; p. 702.
Trunks, Packing-board for. M. S. Mosby. No. 993,393; May 30; Sp. p. 5492; Gaz. vol. 166; p. 1012.
Truss. P. S. Haehn. No. 995,864; June 20; Sp. p. 3881; Gaz. vol. 167; p. 674.
Truss. W. H. Allen. No. 1,000,481; Aug. 15; Sp. p. 2705; Gaz. vol. 169; p. 502.
Truss. L. L. Baker. No. 1,002,625; Sept. 5; Sp. p. 1002; Gaz. vol. 170; p. 148.
Truss. J. R. Knox. No. 1,005,043; Oct. 3; Sp. p. 1035; Gaz. vol. 171; p. 173.
Truss. W. Jones. No. 1,005,978; Oct. 17; Sp. p. 3098; Gaz. vol. 171; p. 556.
Truss, Scrotal. A. J. F. Ehrich. No. 1,011,418; Dec. 12; Sp. p. 2286; Gaz. vol. 173; p. 390.
Trusses or trussed beams, Apparatus for forming. N. H. Davis. No. 1,012,334; Dec. 19; Sp. p. 4348; Gaz. vol. 173; p. 745.
Trussed structure. A. J. Bates. No. 1,006,047; Oct. 17; Sp. p. 3240; Gaz. vol. 171; p. 580.
Trussed structures, Making. A. J. Bates. No. 1,005,925; Oct. 17; Sp. p. 2980; Gaz. vol. 171; p. 538.
Tub: *See* Butter-tub.
Tub-cover fastener. H. Pletsch. No. 985,933; Mar. 7; Sp. p. 383; Gaz. vol. 164; p. 60.
Tubs or buckets, Machine for notching lids or covers for. F. Arlt. No. 989,753; Apr. 18; Sp. p. 3127; Gaz. vol. 165; p. 550.
Tubs, Shelf attachment for. J. M. Cahaney. No. 992,641; May 16; Sp. p. 3889; Gaz. vol. 166; p. 695.
Tubbing. W. Huttanus. No. 985,177; Feb. 28; Sp. p. 4155; Gaz. vol. 163; p. 755.
Tube: *See* Amplifying-tube; Automobile radiator-cooling tube; Boiler-tube; Cigar-tube; Collapsible tube; Cone-tube; Cop-tube; Draining-tube; Drinking-tube; Embalmer's draining-tube; Embalming-tube; Evaporating-tube; Expansible tube; Flexible tube; Foil tube; Inner tube; Insulating-tube; Lock-seam tube; Pile-tube; Smoking-tube; Vacuum-tube; X-ray tube.
Tube. M. F. Anderson and G. W. Buchanan. No. 986,960; Mar. 14; Sp. p. 2541; Gaz. vol. 164; p. 440.
Tube and bar trough. J. S. Worth and W. F. Harrison. No. 1,007,510; Oct. 31; Sp. p. 6507; Gaz. vol. 171; p. 1176.
Tube beader and expander. W. Flanagan. No. 990,039; Apr. 18; Sp. p. 3745; Gaz. vol. 165; p. 648.
Tube-bending apparatus. G. H. Reynolds. No. 995,568; June 20; Sp. p. 3200; Gaz. vol. 167; p. 569.
Tube-bending machine. J. C. Wilson. No. 983,664; Feb. 7; Sp. p. 876; Gaz. vol. 163; p. 140.
Tube-bending machine. R. Tattu. No. 986,654; Mar. 14; Sp. p. 1915; Gaz. vol. 164; p. 337.
Tube-boring appliance. J. Rowe. No. 1,002,457; Sept. 5; Sp. p. 628; Gaz. vol. 170; p. 90.
Tube-boring machine. J. Rowe. No. 995,572; June 20; Sp. p. 3224; Gaz. vol. 167; p. 570.
Tube-cleaner. S. S. Poole. No. 997,935; July 11; Sp. p. 2865; Gaz. vol. 168; p. 489.
Tube-cleaner. E. E. Hauer. No. 999,993; Aug. 8; Sp. p. 1603; Gaz. vol. 169; p. 302.
Tube-cleaner. H. F. Weinland. No. 1,000,060; Aug. 8; Sp. p. 1755; Gaz. vol. 169; p. 324.
Tube-cleaner. A. Fraissinet. No. 1,002,255; Sept. 5; Sp. p. 154; Gaz. vol. 170; p. 19.
Tube construction. R. R. Ellis. No. 988,083; Mar. 28; Sp. p. 4982; Gaz. vol. 164; p. 883.
Tube-coupling. F. X. Müller. No. 996,114; June 27; Sp. p. 4389; Gaz. vol. 167; p. 795.
Tube-cutting machine. H. R. Heyl. No. 1,002,690; Sept. 5; Sp. p. 1126; Gaz. vol. 170; p. 169.
Tube ends, Clamp for tightening elastic. H. Schubart. No. 1,006,294; Oct. 17; Sp. p. 3814; Gaz. vol. 171; p. 668.
Tube-extractor. T. J. Boroff. No. 989,757; Apr. 18; Sp. p. 3133; Gaz. vol. 165; p. 551.
Tube-machine. J. R. Harbeck. No. 994,998; June 13; Sp. p. 1991; Gaz. vol. 167; p. 348.
Tube-making machine. S. M. Langston. No. 981,774; Jan. 17; Sp. p. 3557; Gaz. vol. 162; p. 604.
Tube-making machine. B. W. Tucker. No. 994,801; June 13; Sp. p. 1531; Gaz. vol. 167; p. 282.
Tube-making machine, Spiral-. J. W. Wallis. No. 998,214; July 18; Sp. p. 3489; Gaz. vol. 168; p. 629.
Tube-making machines, Severing mechanism for. F. C. Osborn. No. 1,006,399; Oct. 17; Sp. p. 4038; Gaz. vol. 171; p. 704.
Tube-mill. P. T. Lindhard. No. 983,068; Jan. 31; Sp. p. 6361; Gaz. vol. 162; p. 1106.
Tube-mill. P. T. Lindhard. No. 983,069; Jan. 31; Sp. p. 6362; Gaz. vol. 162; p. 1106.
Tube-mill and ball-mill lining. F. C. Brown. No. 991,421; May 2; Sp. p. 1262; Gaz. vol. 166; p. 211.
Tube-mill liner. G. H. Kirsch. No. 1,002,406; Sept. 5; Sp. p. 521; Gaz. vol. 170; p. 73.
Tube-rolling. R. C. Stiefel. No. 988,834; Apr. 4; Sp. p. 1153; Gaz. vol. 165; p. 184.
Tube-rolling machine. O. Pfrengle. No. 987,598; Mar. 21; Sp. p. 3861; Gaz. vol. 164; p. 688.
Tube-scaling tool, Percussive. F. Gilman and G. F. Clements. No. 1,008,812; Nov. 14; Sp. p. 2668; Gaz. vol. 172; p. 448.
Tube-setting. J. J. Finnigan. No. 998,886; July 25; Sp. p. 5017; Gaz. vol. 168; p. 900.
Tube-thread protector. J. W. West. No. 1,001,718; Aug. 29; Sp. p. 5376; Gaz. vol. 169; p. 962.
Tube-welding machine. W. F. Harrison. No. 993,988; May 30; Sp. p. 6763; Gaz. vol. 166; p. 1215.
Tube-winding device. C. F. Jenkins. No. 982,430; Jan. 24; Sp. p. 4977; Gaz. vol. 162; p. 861.
Tubes and rods, Straightening. J. B. Fischer. No. 981,407; Jan. 10; Sp. p. 2832; Gaz. vol. 162; p. 457.
Tubes, Apparatus for making square metal. P. H. Seery. No. 997,709; July 11; Sp. p. 2314; Gaz. vol. 168; p. 409.
Tubes, bobbins, or pirns, Apparatus for stripping waste off single-headed. N. D. Walker. No. 993,422; May 30; Sp. p. 5561; Gaz. vol. 166; p. 1021.
Tubes, Flanging. G. H. Reynolds. No. 1,000,122; Aug. 8; Sp. p. 1923; Gaz. vol. 169; p. 346.
Tubes from ductile metal, Producing thin hard. J. E. Wilson. No. 987,093, Mar. 14; Sp. p. 2777; Gaz. vol. 164; p. 481.
Tubes from fibrous materials, Machine for making. C. T. Hansen. No. 990,043; Apr. 18; Sp. p. 3757; Gaz. vol. 165; p. 649.
Tubes, Machine for making spirally-wound. F. C. Osborn. No. 1,006,976; Oct. 24; Sp. p. 5328; Gaz. vol. 171; p. 935.
Tubes, Making steel or alloy. J. J. Dunn. No. 1,006,186; Oct. 17; Sp. p. 3560; Gaz. vol. 171; p. 630.
Tubes, Manufacturing corrugated. W. Maciejewski. No. 1,010,931; Dec. 5; Sp. p. 1180; Gaz. vol. 173; p. 186.
Tubes, Reeling. J. J. Dunn. No. 999,635; Aug. 1; Sp. p. 863; Gaz. vol. 169; p. 150.
Tubes, rods, and the like, Apparatus for polishing. F. Werth. No. 997,167; July 4; Sp. p. 1208; Gaz. vol. 168; p. 195.
Tubes to discover obstructions therein, Apparatus for testing. V. C. Gilpin. No. 1,001,196; Aug. 22; Sp. p. 4301; Gaz. vol. 169; p. 785.
Tubing. E. T. Greenfield. No. 1,009,964; Nov. 28; Sp. p. 5123; Gaz. vol. 172; p. 923.
Tubing and casing elevator. A. G. Heggem. No. 986,388; Mar. 7; Sp. p. 1330; Gaz. vol. 164; p. 214.
Tubing-covering machine, Flexible-. A. E. Chernack. No. 982,249; Jan. 24; Sp. p. 4584; Gaz. vol. 162; p. 796.
Tubing, Flexible metal. E. James. No. 992,426; May 16; Sp. p. 3437; Gaz. vol. 166; p. 619.
Tubing, Flexible metallic. C. T. Schoen. No. 984,856; Feb. 21; Sp. p. 3463; Gaz. vol. 163; p. 612.
Tubing, Method of and means for making. W. C. Frick. No. 989,497; Apr. 11; Sp. p. 2535; Gaz. vol. 165; p. 430.
Tubing, Plate-metal. P. H. Friel. No. 997,799; July 11; Sp. p. 2579; Gaz. vol. 168; p. 442.
Tubing-spear. W. Lang. No. 985,263; Feb. 28; Sp. p. 4343; Gaz. vol. 163; p. 785.
Tubular boiler. J. Van Oosterwyck. No. 1,004,315; Sept. 26; Sp. p. 4691; Gaz. vol. 170; p. 830.
Tubular fabric upon a longitudinally-moving mandrel or former, Automatic machine for the manufacture of unwoven. E. D. C. Bayne and L. A. Subers. No. 991,266; May 2; Sp. p. 938; Gaz. vol. 166; p. 159.
Tubular ribbed fabric. W. E. Smith. No. 1,009,450; Nov. 21; Sp. p. 4097; Gaz. vol. 172; p. 706.

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Tubular structure. J. H. Brown. No. 1,004,142; Sept. 26; Sp. p. 4356; Gaz. vol. 170; p. 772.
Tug and buckle, Hame-. C. T. Sheppard. No. 1,005,896; Oct. 17; Sp. p. 2904; Gaz. vol. 171; p. 527.
Tug clip, Hame-. J. J. Creedon. No. 994,979; June 13; Sp. p. 1951; Gaz. vol. 167; p. 342.
Tug, Harness-. J. C. Semler. No. 1,000,760; Aug. 15; Sp. p. 3327; Gaz. vol. 169; p. 601.
Tug-hook. H. D. Odegard. No. 981,105; Jan. 10; Sp. p. 2126; Gaz. vol. 162; p. 351.
Tug, Shaft-. A. Bernstein. No. 1,005,502; Oct. 10; Sp. p. 2031; Gaz. vol. 171; p. 356.
Tugs to hames, Device for fastening. S. J. Lutz. No. 980,543; Jan. 3; Sp. p. 799; Gaz. vol. 162; p. 128.
Tumbler case or holder. E. C. Baldwin. No. 992,471; May 16; Sp. p. 3532; Gaz. vol. 166; p. 634.
Tumbler-washer. J. P. Nace. No. 980,324; Jan. 3; Sp. p. 281; Gaz. vol. 162; p. 51.
Tumbler-washer. M. Levin. No. 1,002,714; Sept. 5; Sp. p. 1195; Gaz. vol. 170; p. 178.
Tumblers or other articles, Machine for finishing. A. B. Knight. No. 1,009,249; Nov. 21; Sp. p. 3627; Gaz. vol. 172; p. 633.
Tungsten dioxid, Manufacture of. A. Lederer. No. 984,143; Feb. 14; Sp. p. 1923; Gaz. vol. 163; p. 330.
Tungsten-furnace. A. Appelberg. No. 1,006,620; Oct. 24; Sp. p. 4562; Gaz. vol. 171; p. 814.
Tungsten, Treating. A. O. Appelberg. No. 1,011,708; Dec. 12; Sp. p. 2951; Gaz. vol. 173; p. 494.
Tuning instrument. L. W. Norcross. No. 987,159; Mar. 21; Sp. p. 2937; Gaz. vol. 164; p. 537.
Tunnel. J. E. Meyer. No. 1,004,889; Oct. 3; Sp. p. 759; Gaz. vol. 171; p. 121.
Tunnel-construction apparatus. C. King and M. B. Rundle. No. 1,002,524; Sept. 5; Sp. p. 764; Gaz. vol. 170; p. 112.
Tunnel-form. C. D. McArthur. No. 1,009,848; Nov. 28; Sp. p. 4897; Gaz. vol. 172; p. 885.
Tunnel-lining, Metallic. R. B. Woodworth. No. 984,337; Feb. 14; Sp. p. 2351; Gaz. vol. 163; p. 398.
Tunnels, Mucker for removing ore, rock, dirt, &c., from. J. G. Leyner and S. A. Knowles. No. 1,000,336; Aug. 8; Sp. p. 2357; Gaz. vol. 169; p. 417.
Tunnels, Oscillating-shovel muck-remover for. J. G. Leyner and S. A. Knowles. No. 1,000,337; Aug. 8; Sp. p. 2362; Gaz. vol. 169; p. 418.
Tunneling and shaft-boring machine. F. M. Iler. No. 986,293; Mar. 7; Sp. p. 1111; Gaz. vol. 164; p. 179.
Tunneling-machine. G. A. Fowler. No. 996,842; July 4; Sp. p. 490; Gaz. vol. 168; p. 82.
Tunneling-machine. W. R. Collins. No. 1,000,075; Aug. 8; Sp. p. 1794; Gaz. vol. 169; p. 329.
Tunneling-machines, Muck shoveling, catching, and conveying apparatus for. G. A. Fowler. No. 994,144; June 6; Sp. p. 84; Gaz. vol. 167; p. 16.
Turbine. J. Knight. No. 980,644; Jan. 3; Sp. p. 997; Gaz. vol. 162; p. 162.
Turbine. W. E. Snow. No. 981,021; Jan. 10; Sp. p. 1949; Gaz. vol. 162; p. 321.
Turbine. J. H. Corthésy. No. 981,175; Jan. 10; Sp. p. 2276; Gaz. vol. 162; p. 376.
Turbine. J. H. Rivers. No. 981,311; Jan. 10; Sp. p. 2605; Gaz. vol. 162; p. 424.
Turbine. W. S. Elliott and F. M. Faber. No. 983,032; Jan. 31; Sp. p. 6286; Gaz. vol. 162; p. 1093.
Turbine. B. Stevens. No. 983,653; Feb. 7; Sp. p. 856; Gaz. vol. 163; p. 136.
Turbine. C. Roth. No. 984,493; Feb. 14; Sp. p. 2664; Gaz. vol. 163; p. 449.
Turbine. H. F. Schmidt No. 986,317; Mar. 7; Sp. p. 1168; Gaz. vol. 164; p. 189.
Turbine. G. de Laval and E. E. F. Fagerström. No. 986,472; Mar. 14; Sp. p. 1518; Gaz. vol. 164; p. 273.
Turbine. C. A. Parsons and S. S. Cook. No. 986,749; Mar. 14; Sp. p. 2099; Gaz. vol. 164; p. 367.
Turbine. C. A. Parsons. No. 986,942; Mar. 14; Sp. p. 2504; Gaz. vol. 164; p. 433.
Turbine. E. Fisher, Jr. No. 988,990; Apr. 11; Sp. p. 1473; Gaz. vol. 165; p. 259.
Turbine. R. H. Rice. No. 989,723; Apr. 18; Sp. p. 3062; Gaz. vol. 165; p. 539.
Turbine. J. C. Britcher. No. 990,523; Apr. 25; Sp. p. 4860; Gaz. vol. 165; p. 848.
Turbine. W. G. Ross. No. 990,781; Apr. 25; Sp. p. 5422; Gaz. vol. 165; p. 935.
Turbine. H. L. Bowdoin. No. 996,698; July 4; Sp. p. 206; Gaz. vol. 168; p. 35.
Turbine. F. Ljungström. No. 1,000,097; Aug. 8; Sp. p. 1866; Gaz. vol. 169; p. 337.
Turbine. F. F. Rathke. No. 1,001,551; Aug. 22; Sp. p. 5009; Gaz. vol. 169; p. 903.
Turbine. R. May. No. 1,001,874; Aug. 29; Sp. p. 5722; Gaz. vol. 169; p. 1046.
Turbine. V. Gelpke. No. 1,002,669; Sept. 5; Sp. p. 1074; Gaz. vol. 170; p. 162.
Turbine. T. J. Loftus. No. 1,003,144; Sept. 12; Sp. p. 2109; Gaz. vol. 170; p. 363.
Turbine. C. A. Parsons, S. S. Cook, and J. Turnbull. No. 1,005,294; Oct. 10; Sp. p. 1573; Gaz. vol. 171; p. 284.
Turbine. L. V. Barnabé. No. 1,008,106; Nov. 7; Sp. p. 988; Gaz. vol. 172; p. 159.
Turbine. J. F. Brady. No. 1,008,306; Nov. 14; Sp. p. 1475; Gaz. vol. 172; p. 271.
Turbine. P. A. Chaleil. No. 1,012,813; Dec. 26; Sp. p. 5376; Gaz. vol. 173; p. 954.
Turbine. W. E. Snow. No. 1,013,080; Dec. 26; Sp. p. 5968; Gaz. vol. 173; p. 1045.
Turbine-blade. A. Kienast. No. 994,166; June 6; Sp. p. 128; Gaz. vol. 167; p. 23.
Turbine-blade shroud. J. S. Green. No. 1,010,749; Dec. 5; Sp. p. 785; Gaz. vol. 173; p. 123.
Turbine-blade shroud. J. S. Green. No. 1,010,750; Dec. 5; Sp. p. 786; Gaz. vol. 173; p. 123.
Turbine-blade strips or sections, Producing. L. A. Haines. No. 986,974; Mar. 14; Sp. p. 2560; Gaz. vol. 164; p. 443.
Turbine-blades, Securing means for. C. E. Sweet. No. 998,862; July 25; Sp. p. 4954; Gaz. vol. 168; p. 891.
Turbine-blades, Strips for. C. A. Parsons. No. 994,029; May 30; Sp. p. 6845; Gaz. vol. 166; p. 1229.
Turbine-blading. G. Westinghouse. No. 990,321; Apr. 25; Sp. p. 4379; Gaz. vol. 165; p. 775.
Turbine-blading. G. Westinghouse. No. 998,820; July 25; Sp. p. 4848; Gaz. vol. 168; p. 875.
Turbine blading and lining. C. E. Sweet. No. 997,216; July 4; Sp. p. 1302; Gaz. vol. 168; p. 212.
Turbine-blading means. L. A. Haines. No. 991,296; May 2; Sp. p. 1007; Gaz. vol. 166; p. 169.
Turbine-blading means. C. E. Sweet. No. 1,012,749; Dec. 26; Sp. p. 5202; Gaz. vol. 173; p. 932.
Turbine-bucket. E. Kallberg. No. 980,283; Jan. 3; Sp. p. 198; Gaz. vol. 162; p. 38.
Turbine-bucket. E. W. Rice, Jr. No. 980,563; Jan. 3; Sp. p. 839; Gaz. vol. 162; p. 135.
Turbine-bucket construction. E. W. Rice, Jr. No. 980,562; Jan. 3; Sp. p. 837; Gaz. vol. 162; p. 135.
Turbine bucket, Elastic-fluid-. W. Fritz. No. 994,254; June 6; Sp. p. 315; Gaz. vol. 167; p. 54.
Turbine-bucket structure. A. S. Anderson. No. 980,732; Jan. 3; Sp. p. 1193; Gaz. vol. 162; p. 190.
Turbine, Combination-. S. Z. de Ferranti. No. 999,976; Aug. 8; Sp. p. 1569; Gaz. vol. 169; p. 296.
Turbine, Combined ahead and astern. H. W. Ridsdale and S. S. Cook. No. 1,009,789; Nov. 28; Sp. p. 4777; Gaz. vol. 172; p. 865.
Turbine, Condensing-. G. Westinghouse. No. 998,821; July 25; Sp. p. 4850; Gaz. vol. 168; p. 876.
Turbine, Current-. A. H. Perry. No. 988,735; Apr. 4; Sp. p. 965; Gaz. vol. 165; p. 153.
Turbine cylinder-lining. F. Hodgkinson. No. 994,680; June 6; Sp. p. 1226; Gaz. vol. 167; p. 200.
Turbine cylinder-lining, Steam-. F. Hodgkinson. No. 994,681; June 6; Sp. p. 1229; Gaz. vol. 167; p. 200.
Turbine, Elastic-fluid. C. G. Curtis. No. 985,885; Mar. 7; Sp. p. 267; Gaz. vol. 164; p. 44.
Turbine, Elastic-fluid. C. G. Curtis. No. 985,982; Mar. 7; Sp. p. 493; Gaz. vol. 164; p. 78.
Turbine, Elastic-fluid. C. G. Curtis. No. 986,368; Mar. 7; Sp. p. 1284; Gaz. vol. 164; p. 208.
Turbine, Elastic-fluid. B. Wolff. No. 987,336; Mar. 21; Sp. p. 3334; Gaz. vol. 164; p. 599.
Turbine, Elastic-fluid. C. R. Waller. No. 987,842; Mar. 28; Sp. p. 4398; Gaz. vol. 164; p. 800.
Turbine, Elastic-fluid. W. J. A. London. No. 992,433; May 16; Sp. p. 3455; Gaz. vol. 166; p. 621.
Turbine, Elastic-fluid. G. Westinghouse. No. 995,508; June 20; Sp. p. 3073; Gaz. vol. 167; p. 548.
Turbine, Elastic-fluid. C. G. Curtis. No. 996,317; June 27; Sp. p. 4888; Gaz. vol. 167; p. 862.
Turbine, Elastic-fluid. F. Hodgkinson. No. 996,855; July 4; Sp. p. 529; Gaz. vol. 168; p. 87.
Turbine, Elastic-fluid. W. J. A. London. No. 998,019; July 18; Sp. p. 3075; Gaz. vol. 168; p. 560.
Turbine, Elastic-fluid. C. B. Rearick. No. 1,003,203; Sept. 12; Sp. p. 2241; Gaz. vol. 170; p. 386.
Turbine, Elastic-fluid. C. B. Rearick. No. 1,003,204; Sept. 12; Sp. p. 2248; Gaz. vol. 170; p. 386.
Turbine, Elastic-fluid. W. L. R. Emmet. No. 1,006,637; Oct. 24; Sp. p. 4594; Gaz. vol. 171; p. 819.
Turbine, Elastic-fluid. T. Bell. No. 1,006,714; Oct. 24; Sp. p. 4735; Gaz. vol. 171; p. 843.
Turbine, Elastic-fluid. W. E. Snow. No. 1,007,249; Oct. 31; Sp. p. 5947; Gaz. vol. 171; p. 1086.
Turbine, Elastic-fluid. T. H. Holroyd. No. 1,008,824; Nov. 14; Sp. p. 2690; Gaz. vol. 172; p. 452.
Turbine, Elastic-fluid. R. Harrison. No. 1,010,905; Dec. 5; Sp. p. 1127; Gaz. vol. 173; p. 177.
Turbine-engine, Explosive-gas. J. Brown. No. 990,222; Apr. 25; Sp. p. 4134; Gaz. vol. 165; p. 740.
Turbine, Explosive-gas. A. Patschke. No. 995,803; June 20; Sp. p. 3744; Gaz. vol. 167; p. 653.
Turbine, Fluid-actuated. W. J. A. London. No. 992,434; May 16; Sp. p. 3456; Gaz. vol. 166; p. 622.
Turbine, Fluid-operated. E. Brown. No. 986,901; Mar. 14; Sp. p. 2435; Gaz. vol. 164; p. 421.
Turbine, Fluid-operated. E. Brown. No. 986,902; Mar. 14; Sp. p. 2436; Gaz. vol. 164; p. 421.
Turbine, Fluid-pressure. F. Hodgkinson. No. 992,194; May 16; Sp. p. 2886; Gaz. vol. 166; p. 538.
Turbine, Fluid-pressure. K. Alquist. No. 994,049; May 30; Sp. p. 6882; Gaz. vol. 166; p. 1236.
Turbine for locomotives, Steam-. J. B. Dumas. No. 1,010,878; Dec. 5; Sp. p. 1067; Gaz. vol. 173; p. 167.

Turbine for water-meters. J. M. Burton. No. 983,535; Feb. 7; Sp. p. 587; Gaz. vol. 163; p. 95.
Turbine, Gas-. E. K. A. Baumann. No. 990,185; Apr. 18; Sp. p. 4050; Gaz. vol. 165; p. 696.
Turbine, Gas-. A. Stodola. No. 991,179; May 2; Sp. p. 747; Gaz. vol. 166; p. 127.
Turbine, Gas-. P. Krause. No. 1,000,924; Aug. 15; Sp. p. 3669; Gaz. vol. 169; p. 658.
Turbine-governing mechanism. C. E. Little. No. 980,303; Jan. 3; Sp. p. 233; Gaz. vol. 162; p. 44.
Turbine-governing mechanism. F. Hodgkinson. No. 982,819; Jan. 31; Sp. p. 5803; Gaz. vol. 162; p. 1021.
Turbine-governing mechanism. R. H. Rice. No. 989,722; Apr. 18; Sp. p. 3059; Gaz. vol. 165; p. 539.
Turbine-governing mechanism. L. C. Loewenstein. No. 1,008,550; Nov. 14; Sp. p. 2082; Gaz. vol. 172; p. 356.
Turbine-governing mechanism. R. H. Rice and J. G. Callan. No. 1,013,061; Dec. 26; Sp. p. 5930; Gaz. vol. 173; p. 1038.
Turbine-governing mechanism, Elastic-fluid. J. G. Callan. No. 980,487; Jan. 3; Sp. p. 671; Gaz. vol. 162; p. 109.
Turbine-governing mechanism, Gas-. S. A. Moss. No. 1,000,968; Aug. 15; Sp. p. 3767; Gaz. vol. 169; p. 673.
Turbine-governing mechanism, Mixed-pressure-. F. Samuelson. (Reissue.) No. 13,229; Apr. 18; Sp. p. 4100; Gaz. vol. 165; p. 706.
Turbine installation, Marine. C. A. Parsons. No. 1,009,784; Nov. 28; Sp. p. 4770; Gaz. vol. 172; p. 863.
Turbine installation, Water-. I. Pálinkás. No. 996,789; July 4; Sp. p. 377; Gaz. vol. 168; p. 64.
Turbine, Marine steam-. C. G. Curtis. No. 1,008,529; Nov. 14; Sp. p. 2036; Gaz. vol. 172; p. 348.
Turbine, Marine steam-. C. G. Curtis. No. 1,008,530; Nov. 14; Sp. p. 2041; Gaz. vol. 172; p. 349.
Turbine, Marine steam-. C. G. Curtis. No. 1,008,531; Nov. 14; Sp. p. 2045; Gaz. vol. 172; p. 349.
Turbine, Mixed-pressure. L. Cubelic. No. 1,000,783; Aug. 15; Sp. p. 3391; Gaz. vol. 169; p. 609.
Turbine-motor, Wind-propelled. F. W. Hibbs. No. 1,008,148; Nov. 7; Sp. p. 1067; Gaz. vol. 172; p. 174.
Turbine, Reversible. A. E. Buck. No. 992,335; May 16; Sp. p. 3258; Gaz. vol. 166; p. 588.
Turbine, Reversible. W. Robinson. No. 994,201; June 6; Sp. p. 209; Gaz. vol. 167; p. 36.
Turbine, Reversible. G. H. Humm. No. 996,486; June 27; Sp. p. 5258; Gaz. vol. 167; p. 922.
Turbine, Reversing-. H. T. Werber. No. 996,177; June 27; Sp. p. 4575; Gaz. vol. 167; p. 816.
Turbine, Rotary condenser and condensing steam-. E. S. G. Rees. No. 1,000,195; Aug. 8; Sp. p. 2086; Gaz. vol. 169; p. 371.
Turbine space-block. A. K. Warren. No. 1,008,758; Nov. 14; Sp. p. 2548; Gaz. vol. 172; p. 430.
Turbine, Steam-. E. F. Edgar. No. 980,503; Jan. 3; Sp. p. 712; Gaz. vol. 162; p. 114.
Turbine, Steam-. E. F. Edgar. No. 980,504; Jan. 3; Sp. p. 714; Gaz. vol. 162; p. 115.
Turbine, Steam-. G. C. N. Wallace. No. 984,788; Feb. 21; Sp. p. 3345; Gaz. vol. 163; p. 590.
Turbine, Steam-. J. Procner. No. 989,926; Apr. 18; Sp. p. 3500; Gaz. vol. 165; p. 609.
Turbine, Steam-. D. Kemble. No. 992,566; May 16; Sp. p. 3737; Gaz. vol. 166; p. 669.
Turbine, Steam-. W. H. Lieber. No. 995,358; June 13; Sp. p. 2745; Gaz. vol. 167; p. 468.
Turbine, Steam-. J. F. M. Patitz. No. 995,367; June 13; Sp. p. 2764; Gaz. vol. 167; p. 471.
Turbine, Steam-. C. F. Barth. No. 995,397; June 13; Sp. p. 2827; Gaz. vol. 167; p. 480.
Turbine, Steam-. A. Barbezat. No. 995,517; June 20; Sp. p. 3100; Gaz. vol. 167; p. 551.
Turbine, Steam-. J. Blaeker. No. 997,264; July 11; Sp. p. 1404; Gaz. vol. 168; p. 259.
Turbine, Steam-. G. W. Gilleland. No. 1,001,134; Aug. 22; Sp. p. 4188; Gaz. vol. 169; p. 766.
Turbine, Steam-. M. Rotter. No. 1,002,813; Sept. 5; Sp. p. 1391; Gaz. vol. 170; p. 212.
Turbine, Steam-. G. Belluzzo. No. 1,003,324; Sept. 12; Sp. p. 2487; Gaz. vol. 170; p. 428.
Turbine, Wind-. J. G. Childs. (Reissue.) No. 13,319; Nov. 21; Sp. p. 4610; Gaz. vol. 172; p. 797.
Turbine, Wind-. J. G. Childs. No. 1,010,586; Dec. 5; Sp. p. 414; Gaz. vol. 173; p. 66.
Turbine wind-engine, Telescope-. H. E. Giddings. No. 1,002,833; Sept. 12; Sp. p. 1440; Gaz. vol. 170; p. 257.
Turbines, Balancing means for elastic-fluid. W. J. A. London. No. 1,011,826; Dec. 12; Sp. p. 3198; Gaz. vol. 173; p. 534.
Turbines, Blade-holding means for. F. Hodgkinson. No. 1,010,630; Dec. 5; Sp. p. 518; Gaz. vol. 173; p. 81.
Turbines, Emergency governing mechanism for. O. Junggren. No. 993,832; May 30; Sp. p. 6463; Gaz. vol. 166; p. 1163.
Turbines, Gearing for. C. A. Parsons. No. 997,635; July 11; Sp. p. 2163; Gaz. vol. 168; p. 384.
Turbines, Governing mechanism for low-pressure. M. B. Carroll. No. 991,951; May 9; Sp. p. 2390; Gaz. vol. 166; p. 425.
Turbines, Labyrinth-packing for. F. Ljungström. No. 997,629; July 11; Sp. p. 2152; Gaz. vol. 168; p. 381.
Turbines, Leakage-reducing device for steam-. O. Junggren. No. 980,282; Jan. 3; Sp. p. 196; Gaz. vol. 162; p. 38.
Turbines, Means for providing permanent access to the working and regulating mechanism of water-. J. Orten-Böving. No. 1,007,230; Oct. 31; Sp. p. 5910; Gaz. vol. 171; p. 1079.
Turbines, Nozzle-casing for steam-. H. Lentz. No. 1,000,928; Aug. 15; Sp. p. 3677; Gaz. vol. 169; p. 660.
Turbo-compressors, Cooling apparatus for. W. Grun. No. 985,161; Feb. 28; Sp. p. 4115; Gaz. vol. 163; p. 749.
Turbo-displacement engine. L. H. Nash. No. 988,133; Mar. 28; Sp. p. 5067; Gaz. vol. 164; p. 899.
Turbo-generators, Unipolar exciter for. H. Hertz. No. 988,340; Apr. 4; Sp. p. 102; Gaz. vol. 165; p. 19.
Turbo-rotor construction. S. H. Mortensen. No. 1,003,120; Sept. 12; Sp. p. 2066; Gaz. vol. 170; p. 356.
Turn-table. P. McLaren. No. 988,276; Mar. 28; Sp. p. 5344; Gaz. vol. 164; p. 946.
Turn-table. H. Hastings. No. 996,641; July 4; Sp. p. 101; Gaz. vol. 168; p. 18.
Turn-table. H. M. Verplanck. No. 1,004,114; Sept. 26; Sp. p. 4279; Gaz. vol. 170; p. 762.
Turn-table. E. Burr. No. 1,004,143; Sept. 26; Sp. p. 4357; Gaz. vol. 170; p. 772.
Turn-table. F. H. Adams. No. 1,006,172; Oct. 17; Sp. p. 3526; Gaz. vol. 171; p. 625.
Turn-table and winch, Combination truck. H. Zering. No. 1,004,838; Oct. 3; Sp. p. 634; Gaz. vol. 171; p. 103.
Turn-table, Automatic automobile. P. A. Rasmus. No. 984,967; Feb. 21; Sp. p. 3673; Gaz. vol. 163; p. 648.
Turn-table for stone-polishing and other purposes. J. Ratcliffe. No. 983,517; Feb. 7; Sp. p. 555; Gaz. vol. 163; p. 89.
Turn-table mechanism for railway pile-drivers and the like. W. Ferris. No. 982,418; Jan. 24; Sp. p. 4949; Gaz. vol. 162; p. 856.
Turn-table-operating mechanism. J. C. Fleming. No. 998,888; July 25; Sp. p. 5019; Gaz. vol. 168; p. 901.
Turn-table, Truck. H. Zering. No. 1,005,495; Oct. 10; Sp. p. 2019; Gaz. vol. 171; p. 354.
Turning-machine. F. W. Potter. No. 1,005,069; Oct. 3; Sp. p. 1075; Gaz. vol. 171; p. 180.
Turning mechanism. R. F. Scott. No. 1,004,088; Sept. 26; Sp. p. 4220; Gaz. vol. 170; p. 753.
Turning-tool. D. L. Calahan. No. 1,003,584; Sept. 19; Sp. p. 3056; Gaz. vol. 170; p. 551.
Turning-tools, Work-supporting rest for. J. Hartness. No. 985,411; Feb. 28; Sp. p. 4660; Gaz. vol. 163; p. 833.
Turnbuckle. B. H. Green. No. 1,003,355; Sept. 12; Sp. p. 2560; Gaz. vol. 170; p. 441.
Turnbuckle. A. W. Gustafsson. No. 1,011,949; Dec. 19; Sp. p. 3486; Gaz. vol. 173; p. 611.
Turnbuckle. W. F. Post. No. 1,012,008; Dec. 19; Sp. p. 3631; Gaz. vol. 173; p. 633.
Turnbuckle, Elastic. C. L. Keddy. No. 1,006,950; Oct. 24; Sp. p. 5271; Gaz. vol. 171; p. 927.
Turnstile. J. F. Perey. No. 985,544; Feb. 28; Sp. p. 4983; Gaz. vol. 163; p. 882.
Turnstile. C. Driver. No. 987,445; Mar. 21; Sp. p. 3561; Gaz. vol. 164; p. 635.
Turnstile. H. A. Gordon. No. 990,728; Apr. 25; Sp. p. 5310; Gaz. vol. 165; p. 916.
Turnstile, Self-checking registering-. E. W. Davis. No. 1,007,927; Nov. 7; Sp. p. 635; Gaz. vol. 172; p. 98.
Turpentine and rosin from resinous woods, Extracting. H. T. Yaryan. No. 992,325; May 16; Sp. p. 3217; Gaz. vol. 166; p. 584.
Turpentine-collecting cup. C. Stollberg. No. 989,660; Apr. 18; Sp. p. 2938; Gaz. vol. 165; p. 518.
Turpentine-cup. J. M. Towns. No. 1,006,150; Oct. 17; Sp. p. 3476; Gaz. vol. 171; p. 617.
Turpentine-cup. H. H. Boyer. No. 1,009,641; Nov. 21; Sp. p. 4452; Gaz. vol. 172; p. 767.
Turpentine-cup. W. J. L'Engle. No. 1,011,823; Dec. 12; Sp. p. 3192; Gaz. vol. 173; p. 533.
Turpentine-gatherer. L. T. Baker. No. 994,900; June 13; Sp. p. 1789; Gaz. vol. 167; p. 315.
Turpentine-gathering gutter. J. M. Towns. No. 1,011,279; Dec. 12; Sp. p. 1996; Gaz. vol. 173; p. 343.
Tweezers. F. Gundorph. No. 1,004,871; Oct. 3; Sp. p. 700; Gaz. vol. 171; p. 114.
Tweezers. F. R. Cunningham. No. 1,008,018; Nov. 7; Sp. p. 804; Gaz. vol. 172; p. 128.
Twine-cutter. H. Rau, Jr. No. 1,009,342; Nov. 21; Sp. p. 3829; Gaz. vol. 172; p. 667.
Twine-cutter. M. Forst. No. 1,010,357; Nov. 28; Sp. p. 5927; Gaz. vol. 172; p. 1055.
Twine-holder. J. Stange. No. 988,222; Mar. 28; Sp. p. 5236; Gaz. vol. 164; p. 928.
Twine-holder. S. J. Curry. No. 990,961; May 2; Sp. p. 288; Gaz. vol. 166; p. 50.
Twine-holder. F. E. Clark. No. 1,004,994; Oct. 3; Sp. p. 937; Gaz. vol. 171; p. 156.
Twine-holder. G. E. Chatillon. No. 1,005,155; Oct. 10; Sp. p. 1245; Gaz. vol. 171; p. 232.
Twine-holder. M. M. Fuller. No. 1,007,552; Oct. 31; Sp. p. 6605; Gaz. vol. 171; p. 1191.
Twine-holding device. F. H. Généreux. No. 1,005,702; Oct. 10; Sp. p. 2493; Gaz. vol. 171; p. 427.

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Twine machine, Grass-. O. T. Waite. No. 1,000,763; Aug. 15; Sp. p. 3331; Gaz. vol. 169; p. 602.
Twine machine, Grass-. G. L. Gray. No. 1,010,360; Nov. 28; Sp. p. 5934; Gaz. vol. 172; p. 1056.
Twine or yarn, Making flax. B. S. Summers. No. 1,007,704; Aug. 29; Sp. p. 5354; Gaz. vol. 169; p. 987.
Twist-drill. E. B. Mather. No. 989,379; Apr. 11; Sp. p. 2304; Gaz. vol. 165; p. 390.
Twist-drill. J. L. Osgood. No. 991,884; May 9; Sp. p. 2256; Gaz. vol. 166; p. 402.
Twist-drill. F. W. Hoefer. No. 1,002,846; Sept. 12; Sp. p. 1477; Gaz. vol. 170; p. 261.
Twister. A. E. Rhoades. No. 989,050; Apr. 11; Sp. p. 1592; Gaz. vol. 165; p. 279.
Twisting-machine. J. L. Sackett. No. 980,346; Jan. 3: Sp. p. 331; Gaz. vol. 162; p. 60.
Twyer. C. A. Case. No. 982,244; Jan. 24; Sp. p. 4573; Gaz. vol. 162; p. 795.
Twyer, Blazing. C. A. Case. No. 985,394; Feb. 28; Sp. p 4617; Gaz. vol. 163; p. 828.
Twyer, Converter-. E. A. C. Smith. No. 1,007,149; Oct. 31; Sp. p. 5730; Gaz. vol. 171; p. 1050.
Tying and tufting machine. S. A. Miller. No. 986,019; Mar. 7; Sp. p. 568; Gaz. vol. 164; p. 91.
Tying device and label-holder, Combined. E. F. Maffry. No. 985,265; Feb. 28; Sp. p. 4350; Gaz. vol. 163; p. 786.
Tying device for bundling purposes. D. B. Williams. No. 1,004,514; Sept. 26; Sp. p. 5097; Gaz. vol. 170; p. 897.
Tympan-sheet. E. D. Johnson. No. 982,726; Jan. 24; Sp. p. 5585; Gaz. vol. 162; p. 961.
Type. S. C. Gaunt. No. 984,207; Feb. 14; Sp. p. 2088; Gaz. vol. 163; p. 353.
Type. D. C. Hughes. No. 997,390; July 11; Sp. p. 1661; Gaz. vol. 168; p. 301.
Type assembling and distributing mechanism. H. C. Osborn. No. 990,584; Apr. 25; Sp. p. 4980; Gaz. vol. 165; p. 869.
Type-assembling device. J. Steel. No. 1,004,601; Oct. 3; Sp. p. 114; Gaz. vol. 171; p. 20.
Type-bar mechanism. C. Spiro. No. 987,762; Mar. 28; Sp. p. 4226; Gaz. vol. 164; p. 772.
Type-bar-operating mechanism. E. B. Cram. No. 988,979; Apr. 11; Sp. p. 1438; Gaz. vol. 165; p. 254.
Type-bodies, Machine for casting and composing. E. B. Barber. No. 1,002,212; Sept. 5; Sp. p. 6; Gaz. vol. 170; p. 3.
Type-cabinet. M. E. Chapman. No. 997,239; July 4; Sp. p. 1348; Gaz. vol. 168; p. 220.
Type-case. W. Chipperfield. No. 983,350; Feb. 7; Sp. p. 192; Gaz. vol. 163; p. 34.
Type-cases and the like, Apparatus for extracting dust from. T. H. Fishburn. No. 1,009,294; Nov. 21; Sp. p. 3733; Gaz. vol. 172; p. 650.
Type casting and composing machine and type-writer. R. P. Link and A. C. Morgan. No. 984,947; Feb. 21; Sp. p. 3642; Gaz. vol. 163; p. 642.
Type-casting machine. R. P. Link and A. G. Hyde. No. 981,438; Jan. 10; Sp. p. 2894; Gaz. vol. 162; p. 468.
Type-casting machine. R. Paton. No. 989,997; Apr. 18; Sp. p. 3665; Gaz. vol. 165; p. 635.
Type-casting machine. A. E. Miller. No. 999,513; Aug. 1; Sp. p. 632; Gaz. vol. 169; p. 109.
Type-casting machine. O. V. Sigurdsson. No. 1,002,325; Sept. 5; Sp. p. 324; Gaz. vol. 170; p. 45.
Type-casting machine. F. H. Pierpont. No. 1,008,364; Nov. 14; Sp. p. 1625; Gaz. vol. 172; p. 291.
Type-casting machine. E. B. Barber. No. 1,011,558; Dec. 12; Sp. p. 2611; Gaz. vol. 173; p. 441.
Type-casting-machine mold and mold-adjusting mechanism. F. H. Pierpont. No. 989,637; Apr. 18; Sp. p. 2891; Gaz. vol. 165; p. 510.
Type-casting machines, Centering-pin adjustment for. J. S. Bancroft and M. C. Indahl. No. 989,556; Apr. 18; Sp. p. 2711; Gaz. vol. 165; p. 483.
Type-casting machines, Matrix-holder for. J. S. Bancroft and M. C. Indahl. No. 989,554; Apr. 18; Sp. p. 2704; Gaz. vol. 165; p. 482.
Type-chase. S. A. Neidich. No. 989,277; Apr. 11; Sp. p. 2082; Gaz. vol. 165; p. 356.
Type-chase. C. E. Adamson. No. 1,000,315; Aug. 8; Sp. p. 2317; Gaz. vol. 169; p. 411.
Type-containing channels, Holder for. A. A. Low and L. K. Johnson. No. 988,274; Mar. 28; Sp. p. 5340; Gaz. vol. 164; p. 945.
Type-disk-supporting device. J. Steel. No. 1,000,635; Aug. 15; Sp. p. 3076; Gaz. vol. 169; p. 558.
Type-galley. F. W. Neumayer. No. 1,010,302; Nov. 28; Sp. p. 5822; Gaz. vol. 172; p. 1037.
Type-holder. H. J. Gore. No. 998,169; July 18; Sp. p. 3398; Gaz. vol. 168; p. 613.
Type-machine die-case equipment. M. C. Indahl and W. E. Chalfant. No. 980,959; Jan. 10; Sp. p. 1792; Gaz. vol. 162; p. 299.
Type-machine matrix. M. C. Indahl and W. E. Chalfant. No. 981,195; Jan. 10; Sp. p. 2315; Gaz. vol. 162; p. 382.
Type, Machine or apparatus for the automatic justification of lines of. E. A. Adcock. No. 1,008,936; Nov. 14; Sp. p. 2903; Gaz. vol. 172; p. 487.
Type-matrix-side-grooving machine. J. S. Bancroft and M. C. Indahl. No. 980,903; Jan. 10; Sp. p. 1600; Gaz. vol. 162; p. 279.
Type-metal pot. E. B. Barber. No. 1,011,718; Dec. 12; Sp. p. 2966; Gaz. vol. 173; p. 496.
Type-mold. M. C. Indahl and A. L. Knight. No. 980,960; Jan. 10; Sp. p. 1794; Gaz. vol. 162; p. 299.
Type-mold. B. F. Bellows. No. 1,002,959; Sept. 12; Sp. p. 1742; Gaz. vol. 170; p. 309.
Type-mold equipment, Low-quad. A. L. Knight. No. 980,970; Jan. 10; Sp. p. 1815; Gaz. vol. 162; p. 302.
Type, Printing-. D. Gestetner. No. 1,008,132; Nov. 7; Sp. p. 1040; Gaz. vol. 172; p. 169.
Type-rings and other articles, Forming. W. Hess, Jr. No. 985,032; Feb. 21; Sp. p. 3797; Gaz. vol. 163; p. 671.
Type-setting and line-casting machine. H. Degener. No. 982,172; Jan. 17; Sp. p. 4415; Gaz. vol. 162; p. 740.
Type-setting and line-casting machine. H. Degener. No. 1,010,401; Nov. 28; Sp. p. 6033; Gaz. vol. 172; p. 1069.
Type-setting apparatus. H. Drewell. No. 988,984; Apr. 11; Sp. p. 1445; Gaz. vol. 165; p. 256.
Type-setting machine. J. J. Hummel. No. 980,957; Jan. 10; Sp. p. 1725; Gaz. vol. 162; p. 298.
Type-setting-machine-operating keyboard. J. J. Hummel. No. 997,131; July 4; Sp. p. 1122; Gaz. vol. 168; p. 182.
Type-setting-machine slug-indicator. A. B. Chilton. No. 991,955; May 9; Sp. p. 2398; Gaz. vol. 166; p. 426.
Type-setting machines, Machine for perforating the operating-bands of. H. Drewell. No. 1,001,825; Aug. 29; Sp. p. 5605; Gaz. vol. 169; p. 1028.
Type-setting machines, Magazine for. J. J. Hummel. No. 997,130; July 4; Sp. p. 1119; Gaz. vol. 168; p. 181.
Type-treating apparatus. L. M. Smith. No. 1,012,285; Dec. 19; Sp. p. 4244; Gaz. vol. 173; p. 728.
Type, Underscore-. J. R. Blumenberg. No. 1,009,718; Nov. 28; Sp. p. 4627; Gaz. vol. 172; p. 841.
Type-writer. H. D. Robinson. No. 981,116; Jan. 10; Sp. p. 2153; Gaz. vol. 162; p. 355.
Type-writer. J. W. Barnberger. No. 987,103; Mar. 21; Sp. p. 2799; Gaz. vol. 164; p. 515.
Type-writer. W. P. Kidder. No. 988,576; Apr. 4; Sp. p. 613; Gaz. vol. 165; p. 99.
Type-writer. W. G. Babcock. No. 989,222; Apr. 11; Sp. p. 1953; Gaz. vol. 165; p. 338.
Type-writer. G. G. Going and J. A. Ruffin. No. 992,125; May 9; Sp. p. 2722; Gaz. vol. 166; p. 482.
Type-writer. C. Olivetti. No. 993,189; May 23; Sp. p. 5052; Gaz. vol. 166; p. 912.
Type-writer. W. P. Kidder. No. 997,562; July 11; Sp. p. 1994; Gaz. vol. 168; p. 356.
Type-writer. G. W. Donning. No. 997,656; July 11; Sp. p. 2212; Gaz. vol. 168; p. 392.
Type-writer. C. A. Crowell. No. 1,001,359; Aug. 22; Sp. p. 4658; Gaz. vol. 169; p. 841.
Type-writer. C. G. Thompson. No. 1,004,108; Sept. 26; Sp. p. 4264; Gaz. vol. 170; p. 760.
Type-writer. G. W. Donning. No. 1,004,538; Sept. 26; Sp. p. 5142; Gaz. vol. 170; p. 905.
Type-writer. W. Van der Eerden. No. 1,007,825; Nov. 7; Sp. p. 396; Gaz. vol. 172; p. 62.
Type-writer. R. Seidelinger. No. 1,008,497; Nov. 14; Sp. p. 1970; Gaz. vol. 172; p. 337.
Type-writer. G. G. Going and J. A. Ruffin. No. 1,008,964; Nov. 14; Sp. p. 2980; Gaz. vol. 172; p. 497.
Type-writer. J. W. Dunlap. No. 1,009,391; Nov. 21; Sp. p. 3964; Gaz. vol. 172; p. 685.
Type-writer. J. W. Dunlap. No. 1,009,392; Nov. 21; Sp. p. 3966; Gaz. vol. 172; p. 685.
Type-writer. L. Bach and H. Dreyer. No. 1,012,583; Dec. 26; Sp. p. 4849; Gaz. vol. 173; p. 874.
Type-writer, Adding. J. G. Kingsbury. No. 982,606; Jan. 24; Sp. p. 5344; Gaz. vol. 162; p. 921.
Type-writer, Adding. J. Mallman. No. 999,664; Aug. 1; Sp. p. 918; Gaz. vol. 169; p. 160.
Type-writer and computer, Combined. H. Marshall. No. 982,517; Jan. 24; Sp. p. 5173; Gaz. vol. 162; p. 892.
Type-writer and computer, Combined. H. Marshall. No. 982,518; Jan. 24; Sp. p. 5177; Gaz. vol. 162; p. 892.
Type-writer attachment. C. C. Griffee. No. 981,415; Jan. 10; Sp. p. 2849; Gaz. vol. 162; p. 460.
Type-writer attachment. B. Dummit. No. 989,582; Apr. 18; Sp. p. 2772; Gaz. vol. 165; p. 492.
Type-writer attachment. L. Brown. No. 990,223; Apr. 25; Sp. p. 4139; Gaz. vol. 165; p. 741.
Type-writer attachment. C. M. Turton. No. 998,814; July 25; Sp. p. 4837; Gaz. vol. 168; p. 874.
Type-writer attachment. J. B. Vidal. No. 1,001,482; Aug. 22; Sp. p. 4876; Gaz. vol. 169; p. 880.
Type-writer attachment. J. A. Paquet. No. 1,007,233; Oct. 31; Sp. p. 5915; Gaz. vol. 171; p. 1080.
Type-writer attachment. E. Z. Lewis. No. 1,007,581; Oct. 31; Sp. p. 6667; Gaz. vol. 171; p. 1201.
Type-writer attachment. L. L. Day. No. 1,011,416; Dec. 12; Sp. p. 2283; Gaz. vol. 173; p. 390.
Type-writer back-spacer. G. W. Davis. No. 988,551; Apr. 4; Sp. p. 552; Gaz. vol. 165; p. 89.
Type-writer cabinet. K. M. Byron. No. 992,640; May 16; Sp. p. 3888; Gaz. vol. 166; p. 695.
Type-writer carriage-feed mechanism. W. A. McCool. No. 1,012,884; Dec. 26; Sp. p. 5541; Gaz. vol. 173; p. 977.
Type-writer carriage-governor. J. Raber. No. 1,005,781; Oct. 10; Sp. p. 2644; Gaz. vol. 171; p. 456.
Type-writer carriage-stop. C. W. and G. W. Davis. No. 1,002,042; Aug. 29; Sp. p. 6089; Gaz. vol. 169; p. 1100.

Alphabetical list of inventions—Continued.

Type-writer carriages, Rebound-check for. H. D. Bolton. No. 996,607; July 4; Sp. p. 14; Gaz. vol. 168; p. 5.
Type-writer cover and copy-holder, Combined. G. S. Anderson. No. 999,539; Aug. 1; Sp. p. 685; Gaz. vol. 169; p. 117.
Type-writer desk. C. A. Hart. No. 1,008,143; Nov. 7; Sp. p. 1060; Gaz. vol. 172; p. 173.
Type-writer desks, Work-holder attachment for. H. S. Dukes. No. 992,931; May 23; Sp. p. 4505; Gaz. vol. 166; p. 826.
Type-writer escapement mechanism. G. W. Davis. No. 993,585; May 30; Sp. p. 5911; Gaz. vol. 166; p. 1077.
Type-writer for music. F. Groyen. No. 1,002,266; Sept. 5; Sp. p. 181; Gaz. vol. 170; p. 23.
Type-writer for the blind. J. C. Heater. No. 980,778; Jan. 3; Sp. p. 1280; Gaz. vol. 162; p. 206.
Type-writer inking attachment. V. A. Kemper. No. 1,004,175; Sept. 26; Sp. p. 4423; Gaz. vol. 170; p. 782.
Type-writer interchangeable platen. D. P. Moore. No. 980,879; Jan. 3; Sp. p. 1501; Gaz. vol. 162; p. 241.
Type-writer keyboard. L. A. Williams. No. 992,316; May 16; Sp. p. 3197; Gaz. vol. 166; p. 581.
Type-writer line-lock. G. W. Davis. No. 997,374; July 11; Sp. p. 1633; Gaz. vol. 168; p. 296.
Type-writer line-spacing mechanism. G. W. Davis. No. 993,584; May 30; Sp. p. 5909; Gaz. vol. 166; p. 1077.
Type-writer line-stop mechanism. C. H. Gill. No. 996,638; July 4; Sp. p. 93; Gaz. vol. 168; p. 17.
Type-writer operating mechanism. T. A. McCall. No. 1,000,741; Aug. 15; Sp. p. 3288; Gaz. vol. 169; p. 594.
Type-writer paper-carriage-feed mechanism. T. E. Buschmann. No. 994,973; June 13; Sp. p. 1934; Gaz. vol. 167; p. 340.
Type-writer platen and other roller. R. P. Heron. No. 998,510; July 18; Sp. p. 4146; Gaz. vol. 168; p. 734.
Type-writer platen and other roller. R. P. Heron. No. 998,512; July 18; Sp. p. 4153; Gaz. vol. 168; p. 735.
Type-writer platen-carriage. G. F. Rose. No. 995,186; June 13; Sp. p. 2368; Gaz. vol. 167; p. 410.
Type-writer platen-checking device. A. E. Zumpe. No. 983,340; Feb. 7; Sp. p. 175; Gaz. vol. 163; p. 31.
Type-writer platen-shifting mechanism. D. B. Westin. No. 1,013,084; Dec. 26; Sp. p. 5980; Gaz. vol. 173; p. 1047.
Type-writer platens, Clutch mechanism for. G. M. Howe. No. 989,605; Apr. 18; Sp. p. 2824; Gaz. vol. 165; p. 499.
Type-writer registering device. H. P. Harmon. No. 996,409; June 27; Sp. p. 5115; Gaz. vol. 167; p. 896.
Type-writer ribbon mechanism. G. A. Greenwood. No. 996,016; June 20; Sp. p. 4173; Gaz. vol. 167; p. 726.
Type-writer ribbon-reverse mechanism. G. W. Davis. No. 1,003,345; Sept. 12; Sp. p. 2539; Gaz. vol. 170; p. 437.
Type-writer ribbon-spool. Z. E. Prickett. No. 1,003,791; Sept. 19; Sp. p. 3499; Gaz. vol. 170; p. 622.
Type-writer roller or platen. W. J. Smith. No. 1,010,698; Dec. 5; Sp. p. 656; Gaz. vol. 173; p. 105.
Type-writer shift-frames, Auxiliary support for. G. J. Griffiths. No. 984,906; Feb. 21; Sp. p. 3558; Gaz. vol. 163; p. 628.
Type-writer shift-frames, Brace mechanism for. T. L. Knapp. No. 983,557; Feb. 7; Sp. p. 666; Gaz. vol. 163; p. 102.
Type-writer tabulating attachment. H. Harvis and M. H. Blakeslee. No. 997,622; July 11; Sp. p. 2135; Gaz. vol. 168; p. 379.
Type-writer tabulating mechanism. J. B. Hammond. No. 1,007,098; Oct. 31; Sp. p. 5605; Gaz. vol. 171; p. 1030.
Type-writer tabulator mechanism. G. W. Davis. No. 993,583; May 30; Sp. p. 5906; Gaz. vol. 166; p. 1076.
Type-writer word-register. S. P. Patterson. No. 990,162; Apr. 18; Sp. p. 3989; Gaz. vol. 165; p. 688.
Type-writers and recording-machines, Escapement for. J. Raber. No. 1,005,783; Oct. 10; Sp. p. 2647; Gaz. vol. 171; p. 456.
Type-writers and recording-machines, Escapement for. J. Raber. No. 1,005,784; Oct. 10; Sp. p. 2649; Gaz. vol. 171; p. 457.
Type-writers, Apparatus for automatically operating. T. A. McCall. No. 996,993; July 4; Sp. p. 842; Gaz. vol. 168; p. 135.
Type-writers, Automatic envelop and card feeding attachment for. W. H. and R. B. McArdle. No. 985,429; Feb. 28; Sp. p. 4719; Gaz. vol. 163; p. 840.
Type-writers, Automatic feeder for. W. H. and R. B. McArdle. No. 985,428; Feb. 28; Sp. p. 4713; Gaz. vol. 163; p. 839.
Type-writers, Combination device for. H. H. Yelf. No. 1,012,786; Dec. 26; Sp. p. 5309; Gaz. vol. 173; p. 945.
Type-writers, Paper-carriage feed mechanism for. T. E. Buschmann. No. 984,073; Feb. 14; Sp. p. 1791; Gaz. vol. 163; p. 308.
Type-writers, Sheet and envelop feeder for. W. H. and R. B. McArdle. No. 987,097; Mar. 14; Sp. p. 2783; Gaz. vol. 164; p. 482.
Type-writers, &c., Type-bar connection for. C. W. Davis. No. 993,582; May 30; Sp. p. 5905; Gaz. vol. 166; p. 1076.
Type-writers, Variable-line-spacing mechanism for. W. D. Fricks. No. 986,916; Mar. 14; Sp. p. 2462; Gaz. vol. 164; p. 425.
Type-writing and adding machine, Combined. G. O. Degener. No. 990,238; Apr. 25; Sp. p. 4189; Gaz. vol. 165; p. 747.
Type-writing and adding machine, Combined. A. H. Ellis. No. 998,759; July 25; Sp. p. 4720; Gaz. vol. 168; p. 854.
Type-writing and adding machines, Yielding depressor-plate for combined. W. L. Dench. No. 992,342; May 16; Sp. p. 3269; Gaz. vol. 166; p. 590.
Type-writing and calculating machine. J. A. Smith. No. 1,001,698; Aug. 29; Sp. p. 5334; Gaz. vol. 169; p. 985.
Type-writing and similar machine. C. Crisp. No. 1,006,065; Oct. 17; Sp. p. 3273; Gaz. vol. 171; p. 586.
Type-writing machine. W. S. Ireland. No. 980,273; Jan. 3; Sp. p. 174; Gaz. vol. 162; p. 34.
Type-writing machine. W. S. Ireland. No. 980,274; Jan. 3; Sp. p. 178; Gaz. vol. 162; p. 35.
Type-writing machine. W. S. Ireland. No. 980,275; Jan. 3; Sp. p. 179; Gaz. vol. 162; p. 35.
Type-writing machine. W. S. Ireland. No. 980,276; Jan. 3; Sp. p. 182; Gaz. vol. 162; p. 35.
Type-writing machine. W. S. Ireland. No. 980,277; Jan. 3; Sp. p. 184; Gaz. vol. 162; p. 36.
Type-writing machine. W. S. Ireland. No. 980,280; Jan. 3; Sp. p. 191; Gaz. vol. 162; p. 37.
Type-writing machine. W. G. Dunham. No. 980,408; Jan. 3; Sp. p. 472; Gaz. vol. 162; p. 81.
Type-writing machine. J. C. McLaughlin. No. 980,547; Jan. 3; Sp. p. 809; Gaz. vol. 162; p. 130.
Type-writing machine. C. E. Smith. No. 980,689; Jan. 3; Sp. p. 1109; Gaz. vol. 162; p. 177.
Type-writing machine. A. H. Workman. No. 980,729; Jan. 3; Sp. p. 1190; Gaz. vol. 162; p. 190.
Type-writing machine. E. J. Sheehan. No. 981,016; Jan. 10; Sp. p. 1933; Gaz. vol. 162; p. 320.
Type-writing machine. B. C. Stickney. No. 981,028; Jan. 10; Sp. p. 1960; Gaz. vol. 162; p. 324.
Type-writing machine. C. P. Mosher. No. 981,214; Jan. 10; Sp. p. 2355; Gaz. vol. 162; p. 389.
Type-writing machine. H. H. Steele. No. 981,808; Jan. 17; Sp. p. 3634; Gaz. vol. 162; p. 616.
Type-writing machine. H. H. Steele. No. 981,809; Jan. 17; Sp. p. 3641; Gaz. vol. 162; p. 616.
Type-writing machine. F. P. Strauss. No. 981,895; Jan. 17; Sp. p. 3838; Gaz. vol. 162; p. 647.
Type-writing machine. A. T. Brown and A. J. Briggs. No. 981,974; Jan. 17; Sp. p. 4038; Gaz. vol. 162; p. 674.
Type-writing machine. C. B. Corcoran. No. 982,171; Jan. 17; Sp. p. 4413; Gaz. vol. 162; p. 739.
Type-writing machine. A. G. F. Kurowski. No. 982,183; Jan. 17; Sp. p. 4440; Gaz. vol. 162; p. 744.
Type-writing machine. L. Ney. No. 982,187; Jan. 17; Sp. p. 4446; Gaz. vol. 162; p. 745.
Type-writing machine. W. E. Shrayer. No. 982,307; Jan. 24; Sp. p. 4729; Gaz. vol. 162; p. 817.
Type-writing machine. C. B. Corcoran. No. 982,657; Jan. 24; Sp. p. 5436; Gaz. vol. 162; p. 938.
Type-writing machine. J. K. Lux. No. 982,684; Jan. 24; Sp. p. 5492; Gaz. vol. 162; p. 947.
Type-writing machine. W. E. Barnard. No. 982,701; Jan. 24; Sp. p. 5531; Gaz. vol. 162; p. 952.
Type-writing machine. L. Ney. No. 983,164; Jan. 31; Sp. p. 6531; Gaz. vol. 162; p. 1135.
Type-writing machine. J. Z. Glenzing. No. 983,358; Feb. 7; Sp. p. 215; Gaz. vol. 163; p. 38.
Type-writing machine. H. H. Steele. No. 983,462; Feb. 7; Sp. p. 438; Gaz. vol. 163; p. 70.
Type-writing machine. C. B. Yaw. No. 983,470; Feb. 7; Sp. p. 459; Gaz. vol. 163; p. 73.
Type-writing machine. C. Gabrielson. No. 983,490; Feb. 7; Sp. p. 500; Gaz. vol. 163; p. 80.
Type-writing machine. A. G. Snyder. No. 983,651; Feb. 7; Sp. p. 850; Gaz. vol. 163; p. 135.
Type-writing machine. Z. G. Sholes. No. 983,941; Feb. 14; Sp. p. 1495; Gaz. vol. 163; p. 263.
Type-writing machine. L. C. Myers. No. 984,234; Feb. 14; Sp. p. 2141; Gaz. vol. 163; p. 363.
Type-writing machine. E. B. Hess. No. 984,275; Feb. 14; Sp. p. 2236; Gaz. vol. 163; p. 378
Type-writing machine. J. F. McBirney. No. 984,284; Feb. 14; Sp. p. 2255; Gaz. vol. 163; p. 381.
Type-writing machine. C. B. Yaw. No. 984,338; Feb. 14; Sp. p. 2352; Gaz. vol. 163; p. 398.
Type-writing machine. F. X. Wagner. No. 984,621; Feb. 21; Sp. p. 2983; Gaz. vol. 163; p. 529.
Type-writing machine. J. Felbel. No. 984,654; Feb. 21; Sp. p. 3053; Gaz. vol. 163; p. 541.
Type-writing machine. E. B. Hess. No. 984,671; Feb. 21; Sp. p. 3079; Gaz. vol. 163; p. 545.
Type-writing machine. A. T. Brown. No. 984,744; Feb. 21; Sp. p. 3241; Gaz. vol. 163; p. 574.
Type-writing machine. O. Woodward. No. 985,093; Feb. 21; Sp. p. 3919; Gaz. vol. 163; p. 692.
Type-writing machine. A. T. Brown. No. 985,506; Feb. 28; Sp. p. 4892; Gaz. vol. 163; p. 868.
Type-writing machine. H. Hopkins. No. 985,675; Feb. 28; Sp. p. 5237; Gaz. vol. 163; p. 925.
Type-writing machine. C. F. Laganke. No. 986,471; Mar. 14; Sp. p. 1514; Gaz. vol. 164; p. 272.
Type-writing machine. H. H. Steele. No. 986,515; Mar. 14; Sp. p. 1614; Gaz. vol. 164; p. 287.

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Type-writing machine. J. C. McLaughlin. No. 986,583; Mar. 14; Sp. p. 1756; Gaz. vol. 164; p. 311.
Type-writing machine. C. P. Mosher. No. 987,813; Mar. 28; Sp. p. 4337; Gaz. vol. 164; p. 790.
Type-writing machine. L. C. Myers. No. 987,907; Mar. 28; Sp. p. 4565; Gaz. vol. 164; p. 822.
Type-writing machine. J. S. Stewart. No. 987,925; Mar. 28; Sp. p. 4606; Gaz. vol. 164; p. 829.
Type-writing machine. C. P. Mosher. No. 988,013; Mar. 28; Sp. p. 4824; Gaz. vol. 164; p. 860.
Type-writing machine. F. R. Wainwright. No. 988,053; Mar. 28; Sp. p. 4918; Gaz. vol. 164; p. 873.
Type-writing machine. G. A. Seib. No. 988,147; Mar. 28; Sp. p. 5093; Gaz. vol. 164; p. 903.
Type-writing machine. F. A. Young. No. 988,531; Apr. 4; Sp. p. 512; Gaz. vol. 165; p. 82.
Type-writing machine. H. H. Steele. No. 989,308; Apr. 11; Sp. p. 2154; Gaz. vol. 165; p. 367.
Type-writing machine. H. H. Steele. No. 989,309; Apr. 11; Sp. p. 2159; Gaz. vol. 165; p. 368.
Type-writing machine. J. Felbel. No. 989,591; Apr. 18; Sp. p. 2800; Gaz. vol. 165; p. 495.
Type-writing machine. B. P. Finigan. No. 989,592; Apr. 18; Sp. p. 2802; Gaz. vol. 165; p. 495.
Type-writing machine. B. C. Stickney. No. 989,820; Apr. 18; Sp. p. 3285; Gaz. vol. 165; p. 574.
Type-writing machine. T. L. Knapp. No. 989,851; Apr. 18; Sp. p. 3350; Gaz. vol. 165; p. 584.
Type-writing machine. H. M. Ashe and W. D. Fricks. No. 989,889; Apr. 18; Sp. p. 3414; Gaz. vol. 165; p. 596.
Type-writing machine. L. Ney. No. 989,922; Apr. 18; Sp. p. 3493; Gaz. vol. 165; p. 608.
Type-writing machine. B. C. Stickney. No. 990,169; Apr. 18; Sp. p. 4001; Gaz. vol. 165; p. 690.
Type-writing machine. B. C. Stickney. No. 990,170; Apr. 18; Sp. p. 4006; Gaz. vol. 165; p. 691.
Type-writing machine. W. W. Lasker. No. 990,276; Apr. 25; Sp. p. 4260; Gaz. vol. 165; p. 760.
Type-writing machine. A. W. Smith. No. 990,306; Apr. 25; Sp. p. 4326; Gaz. vol. 165; p. 771.
Type-writing machine. H. H. Steele. No. 990,307; Apr. 25; Sp. p. 4342; Gaz. vol. 165; p. 771.
Type-writing machine. B. C. Stickney. No. 990,309; Apr. 25; Sp. p. 4350; Gaz. vol. 165; p. 772.
Type-writing machine. R. H. Strother. No. 990,312; Apr. 25; Sp. p. 4360; Gaz. vol. 165; p. 772.
Type-writing machine. R. H. Strother. No. 990,406; Apr. 25; Sp. p. 4577; Gaz. vol. 165; p. 807.
Type-writing machine. H. T. Foddrill. No. 990,481; Apr. 25; Sp. p. 4735; Gaz. vol. 165; p. 833.
Type-writing machine. E. B. Hess. No. 990,736; Apr. 25; Sp. p. 5324; Gaz. vol. 165; p. 919.
Type-writing machine. W. E. Barnard. No. 990,797; Apr. 25; Sp. p. 5460; Gaz. vol. 165; p. 940.
Type-writing machine. L. D. Broughton. No. 990,834; May 2; Sp. p. 14; Gaz. vol. 166; p. 5.
Type-writing machine. H. H. Steele. No. 990,919; May 2; Sp. p. 197; Gaz. vol. 166; p. 35.
Type-writing machine. A. W. Steiger. No. 990,920; May 2; Sp. p. 200; Gaz. vol. 166; p. 35.
Type-writing machine. F. A. Young. No. 990,939; May 2; Sp. p. 235; Gaz. vol. 166; p. 41.
Type-writing machine. F. A. Young. No. 990,940; May 2; Sp. p. 239; Gaz. vol. 166; p. 41.
Type-writing machine. H. A. Moyer and O. C. Kavle. No. 991,166; May 2; Sp. p. 721; Gaz. vol. 166; p. 122.
Type-writing machine. E. F. M. Branson. No. 991,692; May 9; Sp. p. 1879; Gaz. vol. 166; p. 339.
Type-writing machine. J. J. Cooper. No. 991,702; May 9; Sp. p. 1896; Gaz. vol. 166; p. 342.
Type-writing machine. A. S. Dennis. No. 991,706; May 9; Sp. p. 1906; Gaz. vol. 166; p. 344.
Type-writing machine. O. L. Ingram. No. 992,200; May 16; Sp. p. 2898; Gaz. vol. 166; p. 540.
Type-writing machine. J. T. Schaaff. No. 992,263; May 16; Sp. p. 3082; Gaz. vol. 166; p. 562.
Type-writing machine. C. J. Bond. No. 992,844; May 23; Sp. p. 4310; Gaz. vol. 166; p. 794.
Type-writing machine. G. A. Seib. No. 992,912; May 23; Sp. p. 4467; Gaz. vol. 166; p. 819.
Type-writing machine. H. C. Ford. No. 993,234; May 23; Sp. p. 5138; Gaz. vol. 166; p. 926.
Type-writing machine. E. B. Hess. No. 993,681; May 30; Sp. p. 6144; Gaz. vol. 166; p. 1111.
Type-writing machine. G. H. Smith. No. 993,725; May 30; Sp. p. 6236; Gaz. vol. 166; p. 1127.
Type-writing machine. A. W. Steiger. No. 994,209; June 6; Sp. p. 224; Gaz. vol. 167; p. 39.
Type-writing machine. J. C. McLaughlin. No. 994,327; June 6; Sp. p. 462; Gaz. vol. 167; p. 79.
Type-writing machine. W. J. Kauffman. No. 995,150; June 13; Sp. p. 2298; Gaz. vol. 167; p. 398.
Type-writing machine. W. J. Roche. No. 995,483; June 20; Sp. p. 3028; Gaz. vol. 167; p. 539.
Type-writing machine. C. B. Yaw. No. 995,514; June 20; Sp. p. 3090; Gaz. vol. 167; p. 550.
Type-writing machine. C. B. Yaw. No. 995,515; June 20; Sp. p. 3095; Gaz. vol. 167; p. 551.
Type-writing machine. G. A. Greenwood. No. 995,669; June 20; Sp. p. 3438; Gaz. vol. 167; p. 606.
Type-writing machine. C. B. Yaw. No. 995,752; June 20; Sp. p. 3621; Gaz. vol. 167; p. 635.
Type-writing machine. C. B. Yaw. No. 995,753; June 20; Sp. p. 3633; Gaz. vol. 167; p. 635.
Type-writing machine. F. J. Tanner and E. F. Griffin. No. 996,538; June 27; Sp. p. 5361; Gaz. vol. 167; p. 938.
Type-writing machine. C. Gabrielson. No. 996,576; June 27; Sp. p. 5435; Gaz. vol. 167; p. 951.
Type-writing machine. J. Felbel. No. 996,753; July 4; Sp. p. 303; Gaz. vol. 168; p. 53.
Type-writing machine. H. H. Steele. No. 996,809; July 4; Sp. p. 423; Gaz. vol. 168; p. 71.
Type-writing machine. C. E. Tomlinson. No. 996,813; July 4; Sp. p. 432; Gaz. vol. 168; p. 72.
Type-writing machine. J. T. Schaaff. No. 997,010; July 4; Sp. p. 891; Gaz. vol. 168; p. 142.
Type-writing machine. J. D. Daugherty. No. 997,441; July 11; Sp. p. 1752; Gaz. vol. 168; p. 318.
Type-writing machine. G. B. Webb. No. 997,482; July 11; Sp. p. 1824; Gaz. vol. 168; p. 330.
Type-writing machine. H. H. Steele. No. 997,517; July 11; Sp. p. 1897; Gaz. vol. 168; p. 341.
Type-writing machine. E. H. Berry. No. 997,537; July 11; Sp. p. 1944; Gaz. vol. 168; p. 348.
Type-writing machine. O. C. Kavle. No. 997,559; July 11; Sp. p. 1988; Gaz. vol. 168; p. 355.
Type-writing machine. E. S. McAll. No. 997,632; July 11; Sp. p. 2157; Gaz. vol. 168; p. 382.
Type-writing machine. W. J. Barron. No. 997,892; July 11; Sp. p. 2763; Gaz. vol. 168; p. 473.
Type-writing machine. C. Gabrielson. No. 997,911; July 11; Sp. p. 2811; Gaz. vol. 168; p. 480.
Type-writing machine. A. W. Hewitt. No. 998,092; July 18; Sp. p. 3240; Gaz. vol. 168; p. 587.
Type-writing machine. W. P. McLaughlin. No. 998,710; July 25; Sp. p. 4594; Gaz. vol. 168; p. 837.
Type-writing machine. H. H. Steele. No. 998,861; July 25; Sp. p. 4952; Gaz. vol. 168; p. 890.
Type-writing machine. W. J. Barron. No. 998,946; July 25; Sp. p. 5157; Gaz. vol. 168; p. 921.
Type-writing machine. A. W. Smith. No. 999,347; Aug. 1; Sp. p. 291; Gaz. vol. 169; p. 54.
Type-writing machine. M. Klaczko. No. 999,502; Aug. 1; Sp. p. 607; Gaz. vol. 169; p. 105.
Type-writing machine. J. T. Schaaff. No. 999,879; Aug. 8; Sp. p. 1359; Gaz. vol. 169; p. 263.
Type-writing machine. C. B. Yaw. No. 999,942; Aug. 8; Sp. p. 1498; Gaz. vol. 169; p. 284.
Type-writing machine. L. W. Labofish. No. 1,000,019; Aug. 8; Sp. p. 1656; Gaz. vol. 169; p. 311.
Type-writing machine. J. H. Barr. No. 1,000,361; Aug. 15; Sp. p. 2435; Gaz. vol. 169; p. 458.
Type-writing machine. O. Woodward. No. 1,000,476; Aug. 15; Sp. p. 2695; Gaz. vol. 169; p. 500.
Type-writing machine. A. T. Brown. No. 1,000,986; Aug. 22; Sp. p. 3828; Gaz. vol. 169; p. 713.
Type-writing machine. R. S. Douthat. No. 1,001,370; Aug. 22; Sp. p. 4680; Gaz. vol. 169; p. 845.
Type-writing machine. R. S. Douthat. No. 1,001,515; Aug. 22; Sp. p. 4934; Gaz. vol. 169; p. 892.
Type-writing machine. W. R. Fox. No. 1,001,749; Aug. 29; Sp. p. 5446; Gaz. vol. 169; p. 1003.
Type-writing machine. H. H. Simms. No. 1,002,606; Sept. 5; Sp. p. 954; Gaz. vol. 170; p. 141.
Type-writing machine. B. P. Fortin and G. H. Horton. No. 1,002,809; Sept. 5; Sp. p. 1384; Gaz. vol. 170; p. 211.
Type-writing machine. H. H. Steele. No. 1,002,939; Sept. 12; Sp. p. 1702; Gaz. vol. 170; p. 295.
Type-writing machine. E. E. Barney. No. 1,003,084; Sept. 12; Sp. p. 1973; Gaz. vol. 170; p. 342.
Type-writing machine. S. Kanschine. No. 1,003,361; Sept. 12; Sp. p. 2569; Gaz. vol. 170; p. 442.
Type-writing machine. W. J. Barron. No. 1,003,415; Sept. 19; Sp. p. 2670; Gaz. vol. 170; p. 492.
Type-writing machine. W. J. Barron. No. 1,003,580; Sept. 19; Sp. p. 3049; Gaz. vol. 170; p. 550.
Type-writing machine. W. J. Barron. No. 1,003,972; Sept. 26; Sp. p. 3913; Gaz. vol. 170; p. 711.
Type-writing machine. W. J. Barron. No. 1,003,974; Sept. 26; Sp. p. 3918; Gaz. vol. 170; p. 712.
Type-writing machine. G. B. Brand. No. 1,004,236; Sept. 26; Sp. p. 4547; Gaz. vol. 170; p. 804.
Type-writing machine. S. V. Clevenger. No. 1,005,158; Oct. 10; Sp. p. 1251; Gaz. vol. 171; p. 233.
Type-writing machine. M. H. Lockwood. No. 1,005,245; Oct. 10; Sp. p. 1456; Gaz. vol. 171; p. 265.
Type-writing machine. P. D. Du Pont. No. 1,006,060; Oct. 17; Sp. p. 3261; Gaz. vol. 171; p. 584.
Type-writing machine. M. H. Lockwood. No. 1,006,489; Oct. 24; Sp. p. 4259; Gaz. vol. 171; p. 765.
Type-writing machine. B. C. Stickney. No. 1,007,746; Nov. 7; Sp. p. 209; Gaz. vol. 172; p. 33.
Type-writing machine. J. O. Strong and F. E. Baer. No. 1,007,748; Nov. 7; Sp. p. 216; Gaz. vol. 172; p. 34.
Type-writing machine. W. E. Barnard. No. 1,007,839; Nov. 7; Sp. p. 446; Gaz. vol. 172; p. 67.
Type-writing machine. E. E. Barney. No. 1,007,840; Nov. 7; Sp. p. 448; Gaz. vol. 172; p. 67.
Type-writing machine. J. Waldheim. No. 1,007,994; Nov. 7; Sp. p. 760; Gaz. vol. 172; p. 120.

Alphabetical list of inventions—Continued.

Type-writing machine. O. C. Kavle. No. 1,008,158; Nov. 7; Sp. p. 1082; Gaz. vol. 172; p. 178.
Type-writing machine. H. H. Steele. No. 1,008,387; Nov. 14; Sp. p. 1682; Gaz. vol. 172; p. 299.
Type-writing machine. A. W. Steiger. No. 1,008,388; Nov. 14; Sp. p. 1686; Gaz. vol. 172; p. 300.
Type-writing machine. S. W. Turner. No. 1,008,394; Nov. 14; Sp. p. 1716; Gaz. vol. 172; p. 302.
Type-writing machine. J. C. Doane and B. H. Self. No. 1,008,961; Nov. 14; Sp. p. 2969; Gaz. vol. 172; p. 496.
Type-writing machine. C. H. Shepard. No. 1,009,189; Nov. 21; Sp. p. 3458; Gaz. vol. 172; p. 611.
Type-writing machine. M. G. Goldberg. No. 1,009,299; Nov. 21; Sp. p. 3741; Gaz. vol. 172; p. 652.
Type-writing machine. H. H. Steele. No. 1,009,351; Nov. 21; Sp. p. 3853; Gaz. vol. 172; p. 671.
Type-writing machine. C. B. Yaw. No. 1,009,371; Nov. 21; Sp. p. 3904; Gaz. vol. 172; p. 678.
Type-writing machine. E. B. Hess. No. 1,009,513; Nov. 21; Sp. p. 4225; Gaz. vol. 172; p. 727.
Type-writing machine. E. B. Hess. No. 1,009,514; Nov. 21; Sp. p. 4226; Gaz. vol. 172; p. 727.
Type-writing machine. H. H. Steele. No. 1,010,087; Nov. 28; Sp. p. 5389; Gaz. vol. 172; p. 966.
Type-writing machine. J. F. McBirney. No. 1,010,290; Nov. 28; Sp. p. 5796; Gaz. vol. 172; p. 1033.
Type-writing machine. J. Felbel. No. 1,010,418; Dec. 5; Sp. p. 29; Gaz. vol. 173; p. 7.
Type-writing machine. H. H. Steele. No. 1,010,528; Dec. 5; Sp. p. 282; Gaz. vol. 173; p. 45.
Type-writing machine. C. B. Yaw. No. 1,010,711; Dec. 5; Sp. p. 680; Gaz. vol. 173; p. 109.
Type-writing machine. W. E. Burnett. No. 1,010,852; Dec. 5; Sp. p. 1017; Gaz. vol. 173; p. 158.
Type-writing machine. H. H. Steele. No. 1,010,970; Dec. 5; Sp. p. 1258; Gaz. vol. 173; p. 199.
Type-writing machine. A. R. Ames. No. 1,011,551; Dec. 12; Sp. p. 2594; Gaz. vol. 173; p. 439.
Type-writing machine. G. J. Barrett. No. 1,011,719; Dec. 12; Sp. p. 2968; Gaz. vol. 173; p. 497.
Type-writing machine. G. J. Barrett. No. 1,011,720; Dec. 12; Sp. p. 2974; Gaz. vol. 173; p. 497.
Type-writing machine. G. J. Barrett. No. 1,011,721; Dec. 12; Sp. p. 2981; Gaz. vol. 173; p. 498.
Type-writing machine. G. J. Barrett. No. 1,011,722; Dec. 12; Sp. p. 2986; Gaz. vol. 173; p. 498.
Type-writing machine. F. W. Hillard. No. 1,011,786; Dec. 12; Sp. p. 3114; Gaz. vol. 173; p. 521.
Type-writing machine. J. D. Daugherty. No. 1,011,924; Dec. 19; Sp. p. 3436; Gaz. vol. 173; p. 602.
Type-writing machine. J. W. Koerner. No. 1,011,970; Dec. 19; Sp. p. 3536; Gaz. vol. 173; p. 619.
Type-writing machine. J. D. Daugherty. No. 1,012,062; Dec. 19; Sp. p. 3748; Gaz. vol. 173; p. 651.
Type-writing machine. J. D. Daugherty. No. 1,012,128; Dec. 19; Sp. p. 3906; Gaz. vol. 173; p. 676.
Type-writing machine. V. W. Miller. No. 1,012,143; Dec. 19; Sp. p. 3935; Gaz. vol. 173; p. 680.
Type-writing machine. G. A. Seib. No. 1,012,168; Dec. 19; Sp. p. 3986; Gaz. vol. 173; p. 688.
Type-writing machine. C. B. Yaw. No. 1,012,785; Dec. 26; Sp. p. 5305; Gaz. vol. 173; p. 945.
Type-writing machine. S. L. W. Merlin. No. 1,012,888; Dec. 26; Sp. p. 5549; Gaz. vol. 173; p. 979.
Type-writing machine. C. H. Shepard. No. 1,012,924; Dec. 26; Sp. p. 5620; Gaz. vol. 173; p. 991.
Type-writing machine. C. E. Smith. No. 1,012,925; Dec. 26; Sp. p. 5631; Gaz. vol. 173; p. 991.
Type-writing machine. H. H. Steele. No. 1,012,928; Dec. 26; Sp. p. 5639; Gaz. vol. 173; p. 992.
Type-writing machine. H. H. Steele. No. 1,012,929; Dec. 26; Sp. p. 5643; Gaz. vol. 173; p. 993.
Type-writing machine. H. H. Steele. No. 1,012,930; Dec. 26; Sp. p. 5651; Gaz. vol. 173; p. 993.
Type-writing machine. J. Waldheim. No. 1,012,943; Dec. 26; Sp. p. 5684; Gaz. vol. 173; p. 998.
Type-writing-machine cabinet. G. W. Donning. No. 993,588; May 30; Sp. p. 5917; Gaz. vol. 166; p. 1078.
Type-writing-machine calculating attachment. F. J. Tillman. No. 1,003,671; Sept. 19; Sp. p. 3229; Gaz. vol. 170; p. 582.
Type-writing-machine carriage-feed mechanism. O. C. Kavle. No. 997,137; July 4; Sp. p. 1132; Gaz. vol. 168; p. 184.
Type-writing machine carriage-feeding mechanism. W. W. Lasker. No. 990,569; Apr. 25; Sp. p. 4947; Gaz. vol. 165; p. 864.
Type-writing machine, Electric. A. T. MacCoy. No. 985,824; Mar. 7; Sp. p. 109; Gaz. vol. 164; p. 23.
Type-writing-machine eraser attachment. L. A. Carter and W. J. Haldan. No. 989,230; Apr. 11; Sp. p. 1978; Gaz. vol. 165; p. 340.
Type-writing-machine feeding attachment. H. M. Burch. No. 994,905; June 13; Sp. p. 1801; Gaz. vol. 167; p. 317.
Type-writing-machine indicator. C. Holland. No. 983,860; Feb. 7; Sp. p. 1298; Gaz. vol. 163; p. 207.
Type-writing-machine paper-carriage. T. L. Knapp. No. 981,927; Jan. 17; Sp. p. 3921; Gaz. vol. 162; p. 658.
Type-writing-machine paper-feeding mechanism. F. J. Tanner and I. E. Jones. No. 1,012,113; Dec. 19; Sp. p. 3874; Gaz. vol. 173; p. 669.
Type-writing-machine platen-lock. I. N. Crabb. No. 981,386; Jan. 10; Sp. p. 2765; Gaz. vol. 162; p. 449.
Type-writing-machine ribbon-carrier. J. Harper. No. 1,009,305; Nov. 21; Sp. p. 3751; Gaz. vol. 172; p. 654.
Type-writing-machine ribbon mechanism. O. C. Kavle. No. 991,154; May 2; Sp. p. 697; Gaz. vol. 166; p. 118.
Type-writing-machine ribbon mechanism. C. S. Nickerson. No. 1,012,094; Dec. 19; Sp. p. 3827; Gaz. vol. 173; p. 663.
Type-writing-machine ribbon-reverse. O. Thieme. No. 996,164; June 27; Sp. p. 4491; Gaz. vol. 167; p. 812.
Type-writing-machine ribbon-spool. F. J. Tanner and I. E. Jones. No. 983,180; Jan. 31; Sp. p. 6556; Gaz. vol. 162; p. 1141.
Type-writing-machine tabulating mechanism. O. C. Kavle. No. 1,013,020; Dec. 26; Sp. p. 5851; Gaz. vol. 173; p. 1023.
Type-writing machines, Apparatus for assembling. J. F. McBirney. No. 993,390; May 30; Sp. p. 5488; Gaz. vol. 166; p. 1011.
Type-writing machines, Bell-ringing mechanism for. G. J. Griffiths and C. Roderick. No. 984,907; Feb. 21; Sp. p. 3560; Gaz. vol. 163; p. 629.
Type-writing machines, Controlling mechanism for the carriages of. J. B. Secor. No. 982,885; Jan. 31; Sp. p. 5953; Gaz. vol. 162; p. 1044.
Type-writing machines, Marginal release for. O. Thieme. No. 996,539; June 27; Sp. p. 5363; Gaz. vol. 167; p. 938.
Type-writing machines, Means for automatically indicating the approximate number of words and other characters written by. R. J. Sharp and M. Quelch. No. 988,037; Mar. 28; Sp. p. 4883; Gaz. vol. 164; p. 868.
Type-writing machines, Paper-carriage for. J. H. Taylor. No. 983,581; Feb. 7; Sp. p. 715; Gaz. vol. 163; p. 111.
Type-writing machines, Platen-release for. O. Thieme. No. 985,713; Feb. 28; Sp. p. 5361; Gaz. vol. 163; p. 939.
Type-writing machines, Ribbon-carrier mechanism for. A. H. Benzee. No. 1,001,608; Aug. 29; Sp. p. 5141; Gaz. vol. 169; p. 953.
Type-writing machines, Stop for universal bars of. W. P. Kidder and C. W. Sponsel. No. 981,657; Jan. 17; Sp. p. 3310; Gaz. vol. 162; p. 562.
Type-writing machines, System of type-levers for. A. Futterknecht. No. 1,006,202; Oct. 17; Sp. p. 3606; Gaz. vol. 171; p. 635.
Type-writing machines, Tabulating mechanism for. T. L. Knapp. No. 984,934; Feb. 21; Sp. p. 3619; Gaz. vol. 163; p. 638.
Type-writing machines, Type-bar frame for. S. Danielski-Busch. No. 1,005,613; Oct. 10; Sp. p. 2302; Gaz. vol. 171; p. 397.
Type-writing machines, Word-counter for. O. B. Smith. No. 981,703; Jan. 17; Sp. p. 3415; Gaz. vol. 162; p. 578.
Type-writing or other machine time-controlling mechanism. C. B. Corcoran. No. 990,112; Apr. 18; Sp. p. 3882; Gaz. vol. 165; p. 671.
Type-written headings, Device for centering. E. Schwartz. No. 1,005,892; Oct. 17; Sp. p. 2899; Gaz. vol. 171; p. 526.
Typographic machine. H. Degener. No. 1,004,386; Sept. 26; Sp. p. 4838; Gaz. vol. 170; p. 854.
Typographical gage. G. H. Riehl and W. Honegger. No. 989,512; Apr. 11; Sp. p. 2570; Gaz. vol. 165; p. 439.
Umbrella. B. E. Sutlive. No. 980,849; Jan. 3; Sp. p. 1429; Gaz. vol. 162; p. 229.
Umbrella. R. H. Roney. No. 985,842; Mar. 7; Sp. p. 179; Gaz. vol. 164; p. 29.
Umbrella. C. F. Burton. No. 990,632; Apr. 25; Sp. p. 5073; Gaz. vol. 165; p. 884.
Umbrella. H. J. Finerty. No. 995,124; June 13; Sp. p. 2241; Gaz. vol. 167; p. 390.
Umbrella. H. Miller. No. 995,168; June 13; Sp. p. 2341; Gaz. vol. 167; p. 405.
Umbrella. C. Schonert. No. 996,369; June 27; Sp. p. 5006; Gaz. vol. 167; p. 882.
Umbrella. J. C. Redford. No. 1,001,076; Aug. 22; Sp. p. 4071; Gaz. vol. 169; p. 747.
Umbrella. L. Mako. No. 1,003,366; Sept. 12; Sp. p. 2579; Gaz. vol. 170; p. 444.
Umbrella. L. C. Bair. No. 1,006,454; Oct. 24; Sp. p. 4168; Gaz. vol. 171; p. 752.
Umbrella. O. L. Carroll. No. 1,006,531; Oct. 24; Sp. p. 4352; Gaz. vol. 171; p. 780.
Umbrella. E. C. Speiden. No. 1,007,812; Nov. 7; Sp. p. 370; Gaz. vol. 172; p. 58.
Umbrella. J. J. McCready and S. Rothamel. No. 1,008,174; Nov. 7; Sp. p. 1116; Gaz. vol. 172; p. 184.
Umbrella and like frame. J. Bradbury. No. 1,001,728; Aug. 29; Sp. p. 5393; Gaz. vol. 169; p. 995.
Umbrella attachment. C. H. Borden. No. 1,007,669; Nov. 7; Sp. p. 18; Gaz. vol. 172; p. 6.
Umbrella-butt. C. F. Wurster. No. 997,029; July 4; Sp. p. 937; Gaz. vol. 168; p. 149.
Umbrella butt and tip. C. F. Wurster. No. 1,007,320; Oct. 31; Sp. p. 6098; Gaz. vol. 171; p. 1111.
Umbrella-carrier. F. E. Hopkins. No. 996,340; June 27; Sp. p. 4947; Gaz. vol. 167; p. 871.

Alphabetical list of inventions—Continued.

Umbrella cloth or covering. J. Bister. No. 997,740; July 11; Sp. p. 2417; Gaz. vol. 168; p. 421.
Umbrella, Collapsible. H. V. De Witt. No. 992,861; May 23; Sp. p. 4360; Gaz. vol. 166; p. 801.
Umbrella fabric-clamp. C. Raber and G. Gundlach. No. 989,416; Apr. 11; Sp. p. 2385; Gaz. vol. 165; p. 402.
Umbrella-fastener. W. Kootz. No. 985,606; Feb. 28; Sp. p. 5111; Gaz. vol. 163; p. 903.
Umbrella, Folding. A. D. Hammett. No. 982,489; Jan. 24; Sp. p. 5114; Gaz. vol. 162; p. 882.
Umbrella, Folding. W. C. Wolfe. No. 987,208; Mar. 21; Sp. p. 3068; Gaz. vol. 164; p. 556.
Umbrella, Folding. L. J. Whittaker. No. 988,956; Apr. 4; Sp. p. 1387; Gaz. vol. 165; p. 223.
Umbrella, Folding. A. C. Pfaff and P. W. Hansen. No. 990,001; Apr. 18; Sp. p. 3671; Gaz. vol. 165; p. 636.
Umbrella, Folding. H. B. Anderson. No. 990,329; Apr. 25; Sp. p. 4398; Gaz. vol. 165; p. 778.
Umbrella, Folding. J. P. J. O'Neil. No. 991,451; May 2; Sp. p. 1324; Gaz. vol. 166; p. 221.
Umbrella, Folding. G. Mroczkowski. No. 991,632; May 9; Sp. p. 1730; Gaz. vol. 166; p. 318.
Umbrella, Folding. S. Sibo. No. 992,608; May 16; Sp. p. 3834; Gaz. vol. 166; p. 683.
Umbrella, Folding. E. A. Lundberg. No. 995,266; June 13; Sp. p. 2528; Gaz. vol. 167; p. 437.
Umbrella, Folding. J. A. Gregory. No. 998,503; July 18; Sp. p. 4129; Gaz. vol. 168; p. 732.
Umbrella, Folding. G. Mroczkowski. No. 1,002,736; Sept. 5; Sp. p. 1247; Gaz. vol. 170; p. 186.
Umbrella, Folding. C. H. Selhaver. No. 1,007,244; Oct. 31; Sp. p. 5940; Gaz. vol. 171; p. 1084.
Umbrella, Folding. Z. Mroczkowski. No. 1,009,680; Nov. 21; Sp. p. 4531; Gaz. vol. 172; p. 780.
Umbrella, Folding. Z. Mroczkowski. No. 1,009,925; Nov. 28; Sp. p. 5039; Gaz. vol. 172; p. 909.
Umbrella, Folding. A. Szabados. No. 1,010,089; Nov. 28; Sp. p. 5396; Gaz. vol. 172; p. 967.
Umbrella-handle-attaching device. J. Konigsberg and J. Forsheim. No. 1,002,158; Aug. 29; Sp. p. 6286; Gaz. vol. 169; p. 1137.
Umbrella-handle, Detachable. E. D. Howe. No. 1,007,572; Oct. 31; Sp. p. 6644; Gaz. vol. 171; p. 1197.
Umbrella, &c., holder. H. C. Engelberg No. 988,180; Mar. 28; Sp. p. 5153; Gaz. vol. 164; p. 914.
Umbrella-locking device. J. R. Barnes, Jr. No. 988,240; Mar. 28; Sp. p. 5268; Gaz. vol. 164; p. 935.
Umbrella-marker. J. A. Day. No. 991,608; May 9; Sp. p. 1686; Gaz. vol. 166; p. 309.
Umbrella or parasol. M. Perell. No. 997,846; July 11; Sp. p. 2665; Gaz. vol. 168; p. 458.
Umbrella rib and stretcher joint. M. H. Hartzell. No. 990,551; Apr. 25; Sp. p. 4915; Gaz. vol. 165; p. 857.
Umbrella staff, Folding. C. H. Ely. No. 980,227; Jan. 3; Sp. p. 97; Gaz. vol. 162; p. 19.
Umbrella-stand. P. P. McMenamin. No. 984,955; Feb. 21; Sp. p. 3656; Gaz. vol. 163; p. 644.
Umbrella-supporter. J. C. Mitchell. No. 988,485; Apr. 4; Sp. p. 414; Gaz. vol. 165; p. 67.
Umbrella, tent, or canopy, Foldable. S. McClellan. No. 993,264; May 23; Sp. p. 5210; Gaz. vol. 166; p. 935.
Umbrella-tip. J. H. Sprague. No. 988,904; Apr. 4; Sp. p. 1280; Gaz. vol. 165; p. 205.
Umbrella, Walking-stick. I. M. Hoppenstand. No. 1,000,911; Aug. 15; Sp. p. 3643; Gaz. vol. 169; p. 654.
Umbrella, Windproof. J. T. Wolfe. No. 986,532; Mar. 14; Sp. p. 1647; Gaz. vol. 164; p. 293.
Uncoupling-rod bracket. C. J. Schultz. No. 1,000,299; Aug. 8; Sp. p. 2295; Gaz. vol. 169; p. 407.
Undercheck. C. T. Friedrich. No. 997,386; July 11; Sp. p. 1653; Gaz. vol. 168; p. 299.
Undercutter. J. W. Donahue. No. 980,928; Jan. 10; Sp. p. 1666; Gaz. vol. 162; p. 288.
Undergarment. J. A. Struthers. No. 981,815; Jan. 17; Sp. p. 3660; Gaz. vol. 162; p. 619.
Undergarment. L. A. Diffenbaugh. No. 991,960; May 9; Sp. p. 2405; Gaz. vol. 166; p. 427.
Undergarment, Body-supporting. H. G. and M. L. Albers. No. 1,007,047; Oct. 31; Sp. p. 5472; Gaz. vol. 171; p. 1013.
Underreamer. B. L. Peterson. No. 980,331; Jan. 3; Sp. p. 299; Gaz. vol. 162; p. 54.
Underreamer. E. C. Wilson. No. 981,510; Jan. 10; Sp. p. 3017; Gaz. vol. 162; p. 492.
Underreamer. A. G. Heggem. No. 982,059; Jan. 17; Sp. p. 4216; Gaz. vol. 162; p. 702.
Underreamer. P. H. Mack. No. 982,513; Jan. 24; Sp. p. 5163; Gaz. vol. 162; p. 890.
Underreamer. P. H. Mack. No. 982,514; Jan. 24; Sp. p. 5166; Gaz. vol. 162; p. 891.
Underreamer. F. C. Voltz. No. 985,956; Mar. 7; Sp. p. 423; Gaz. vol. 164; p. 68.
Underreamer. J. C. Swan. No. 997,718; July 11; Sp. p. 2337; Gaz. vol. 168; p. 413.
Underreamer. A. G. Heggem and G. P. Ritter. No. 997,812; July 11; Sp. p. 2601; Gaz. vol. 168; p. 446.
Underreamer. J. M. Delmore. No. 1,006,446; Oct. 17; Sp. p. 4140; Gaz. vol. 171; p. 720.
Underreamer. E. North. No. 1,007,134; Oct. 31; Sp. p. 5695; Gaz. vol. 171; p. 1045.
Undershirt. T. Fanta. No. 1,000,390; Aug. 15; Sp. p. 2509; Gaz. vol. 169; p. 469.
Underwaist. B. L. Moore. No. 992,376; May 16; Sp. p. 3344; Gaz. vol. 166; p. 602.
Underwaist and corset, Combined. H. E. Nickle. No. 990,582; Apr. 25; Sp. p. 4977; Gaz. vol. 165; p. 868.
Underwear, Union. J. E. Richards. No. 1,000,947; Aug. 15; Sp. p. 3721; Gaz. vol. 169; p. 666.
Union suit, Skirted. E. I. Webb. No. 1,007,995; Nov. 7; Sp. p. 767; Gaz. vol. 172; p. 121.
Unit-lock. H. G. Voight. No. 997,524; July 11; Sp. p. 1918; Gaz. vol. 168; p. 344.
Universal joint. G. B. Kinsler. No. 980,966; Jan. 10; Sp. p. 1806; Gaz. vol. 162; p. 301.
Universal joint. S. S. Hall. No. 982,598; Jan. 24; Sp. p. 5324; Gaz. vol. 162; p. 918.
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Universal joint. E. H. Messiter. No. 993,701; May 30; Sp. p. 6189; Gaz. vol. 166; p. 1119.
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Universal joint. P. A. Merten. No. 999,831; Aug. 8; Sp. p. 1255; Gaz. vol. 169; p. 245.
Universal joint. A. D. Robbins. No. 1,012,443; Dec. 19; Sp. p. 4552; Gaz. vol. 173; p. 779.
Unloading apparatus. B. Bertke. No. 1,001,922; Aug. 29; Sp. p. 5833; Gaz. vol. 169; p. 1061.
Unloading device. H. W. Cheney. No. 995,401; June 13; Sp. p. 2833; Gaz. vol. 167; p. 481.
Unloading device. E. S. Aeling. No. 995,937; June 20; Sp. p. 4025; Gaz. vol. 167; p. 700.
Unloading device. C. G. Sprado. No. 1,002,770; Sept. 5; Sp. p. 1310; Gaz. vol. 170; p. 197.
Unwinding device. C. Ryden. No. 981,950; Jan. 17; Sp. p. 3990; Gaz. vol. 162; p. 666.
Upholstered bottom. F. Roever. No. 989,053; Apr. 11; Sp. p. 1603; Gaz. vol. 165; p. 281.
Upholstery device, Spring. M. and U. Feig. No. 1,008,895; Nov. 14; Sp. p. 2828; Gaz. vol. 172; p. 476.
Upholstery-machine. R. Deimel. No. 993,657; May 30; Sp. p. 6090; Gaz. vol. 166; p. 1103.
Upholstery-machine. H. L. E. Krueger. No. 1,004,037; Sept. 26; Sp. p. 4074; Gaz. vol. 170; p. 734.
Upper-creasing machine. J. Cavanagh. No. 1,009,721; Nov. 28; Sp. p. 4632; Gaz. vol. 172; p. 842.
Upsetting-machine. G. H. Reynolds. No. 989,805; Apr. 18; Sp. p. 3250; Gaz. vol. 165; p. 568.
Upsetting-press. J. Johnson. No. 986,295; Mar. 7; Sp. p. 1115; Gaz. vol. 164; p. 180.
Urethroscope. F. Cerbo. No. 1,003,232; Sept. 12; Sp. p. 2314; Gaz. vol. 170; p. 397.
Urinal. I. L. Hammond. No. 1,008,328; Nov. 14; Sp. p. 1522; Gaz. vol. 172; p. 279.
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Urn. J. Nelson. No. 1,009,777; Nov. 28; Sp. p. 4752; Gaz. vol. 172; p. 861.
Urn or glass holder. A. C. E. Erichsen. No. 1,001,628; Aug. 29; Sp. p. 5178; Gaz. vol. 169; p. 960.
Vacuum apparatus. P. H. Thomas. No. 981,498; Jan. 10; Sp. p. 2997; Gaz. vol. 162; p. 488.
Vacuum apparatus. P. C. Little. No. 996,991; July 4; Sp. p. 836; Gaz. vol. 168; p. 135.
Vacuum apparatus, Evacuating. O. Schaller. No. 1,010,456; Dec. 5; Sp. p. 103; Gaz. vol. 173; p. 21.
Vacuum apparatus for hyperemic treatments. R. A. C. Holz. No. 1,000,001; Aug. 8; Sp. p. 1619; Gaz. vol. 169; p. 304.
Vacuum-cleaner. F. C. Wheeler. No. 984,628; Feb. 21; Sp. p. 3000; Gaz. vol. 163; p. 532.
Vacuum-cleaner. J. F. Shea. No. 985,945; Mar. 7; Sp. p. 404; Gaz. vol. 164; p. 64.
Vacuum-cleaner. J. W. Smith. No. 995,299; June 13; Sp. p. 2580; Gaz. vol. 167; p. 447.
Vacuum-cleaner. J. E. Gearhart. No. 998,891; July 25; Sp. p. 5023; Gaz. vol. 168; p. 902.
Vacuum-cleaner. W. H. Keller. No. 999,371; Aug. 1; Sp. p. 355; Gaz. vol. 169; p. 63.
Vacuum-cleaner. F. Kenney. No. 1,002,521; Sept. 5; Sp. p. 761; Gaz. vol. 170; p. 111.
Vacuum-cleaner. L. Van Nette. No. 1,004,504; Sept. 26; Sp. p. 5079; Gaz. vol. 170; p. 894.
Vacuum-cleaner. W. J. Ackley. No. 1,004,840; Oct. 3; Sp. p. 638; Gaz. vol. 171; p. 104.
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Vacuum cleaner apparatus. B. W. Junk. No. 995,969; June 20; Sp. p. 4084; Gaz. vol. 167; p. 710.
Vacuum-cleaner dust-receiver. W. A. Lee. No. 1,010,646; Dec. 5; Sp. p. 549; Gaz. vol. 173; p. 87.
Vacuum-cleaner for carpets, &c. J. H. Russell and A. A. Carson. No. 993,202; May 23; Sp. p. 5085; Gaz. vol. 166; p. 917.
Vacuum-cleaner-operating means. C. I. Matson. No. 1,011,467; Dec. 12; Sp. p. 2398; Gaz. vol. 173; p. 409.
Vacuum-cleaner shoe. O. Drake. No. 1,000,383; Aug. 15; Sp. p. 2495; Gaz. vol. 169; p. 467.

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Vacuum cleaning apparatus. O. H. Mohr. No. 1,011,989; Dec. 19; Sp. p. 3577; Gaz. vol. 173; p. 625.
Vacuum cleaning device. G. J. Sheppard and H. F. Adams. No. 1,002,324; Sept. 5; Sp. p. 321; Gaz. vol. 170; p. 45.
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Vacuum cleaning-machine. C. Boyer. No. 1,012,800; Dec. 26; Sp. p. 5336; Gaz. vol. 173; p. 950.
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Vacuum cleaning systems, Separator-tank for. C. R. Green. No. 984,810; Feb. 21; Sp. p. 3383; Gaz. vol. 163; p. 596.
Vacuum cleaning-tool. J. S. Thurman. No. 986,245; Mar. 7; Sp. p. 1025; Gaz. vol. 164; p. 165.
Vacuum-clip. C. B. Ulrich. No. 1,000,858; Aug. 15; Sp. p. 3536; Gaz. vol. 169; p. 636.
Vacuum drying apparatus. O. S. Sleeper. No. 980,444; Jan. 3; Sp. p. 555; Gaz. vol. 162; p. 93.
Vacuum drying apparatus. E. W. Strohn. No. 981,494; Jan. 10; Sp. p. 2990; Gaz. vol. 162; p. 486.
Vacuum drying apparatus. L. W. Treichler. No. 981,501; Jan. 10; Sp. p. 3002; Gaz. vol. 162; p. 489.
Vacuum-package apparatus. G. Staunton. No. 1,005,349; Oct. 10; Sp. p. 1704; Gaz. vol. 171; p. 304.
Vacuum-pan. A. Gartley. No. 1,005,533; Oct. 10; Sp. p. 2089; Gaz. vol. 171; p. 368.
Vacuum-producing machine. J. B. Kirby. No. 1,010,388; Nov. 28; Sp. p. 6004; Gaz. vol. 172; p. 1065.
Vacuum-producing means. P. H. Thomas. No. 981,141; Jan. 10; Sp. p. 2205; Gaz. vol. 162; p. 363.
Vacuum-renovator. A. W. Nohe. No. 982,011; Jan. 17; Sp. p. 4118; Gaz. vol. 162; p. 687.
Vacuum-separator. H. A. Simpson. No. 997,864; July 11; Sp. p. 2705; Gaz. vol. 168; p. 464.
Vacuum supporting device. R. Hazelrigg. No. 993,989; May 30; Sp. p. 6765; Gaz. vol. 166; p. 1215.
Vacuum supporting device. R. Hazelrigg. No. 1,010,363; Nov. 28; Sp. p. 5943; Gaz. vol. 172; p. 1057.
Vacuum-sweeper. F. B. Shafer. No. 983,574; Feb. 7; Sp. p. 697; Gaz. vol. 163; p. 108.
Vacuum-tube. D. M. Moore. No. 984,016; Feb. 14; Sp. p. 1670; Gaz. vol. 163; p. 288.
Vacuum-tube. W. A. Winter and C. M. Peabody. No. 984,726; Feb. 21; Sp. p. 3212; Gaz. vol. 163; p. 568.
Vacuum-tubes, Automatic gas-feed for. D. M. Moore. No. 1,010,670; Dec. 5; Sp. p. 592; Gaz. vol. 173; p. 95.
Vacuum-tubes, Mechanical joint for. D. M. Moore. No. 995,025; June 13; Sp. p. 2046; Gaz. vol. 167; p. 358.
Vaginal appliance. A. Svejnar. No. 1,003,821; Sept. 19; Sp. p. 3547; Gaz. vol. 170; p. 631.
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Valve. J. C. Kahle. No. 1,010,149; Nov. 28; Sp. p. 5506; Gaz. vol. 172; p. 986.
Valve. C. Wainwright. No. 1,010,206; Nov. 28; Sp. p. 5622; Gaz. vol. 172; p. 1006.
Valve. G. R. Severin. No. 1,010,811; Dec. 5; Sp. p. 909; Gaz. vol. 173; p. 143.
Valve. J. B. Woodworth. No. 1,010,837; Dec. 5; Sp. p. 975; Gaz. vol. 173; p. 152.
Valve. C. H. Jarvis. No. 1,010,917; Dec. 5; Sp. p. 1159; Gaz. vol. 173; p. 181.
Valve. S. E. Bennett. No. 1,011,147; Dec. 12; Sp. p. 1680; Gaz. vol. 173; p. 296.
Valve. G. Parsons. No. 1,011,640; Dec. 12; Sp. p. 2834; Gaz. vol. 173; p. 472.
Valve. H. F. Lampman. No. 1,011,821; Dec. 12; Sp. p. 3189; Gaz. vol. 173; p. 533.
Valve. E. Fisher, Jr. No. 1,012,070; Dec. 19; Sp. p. 3775; Gaz. vol. 173; p. 654.
Valve. B. T. Williston. No. 1,012,492; Dec. 19; Sp. p. 4645; Gaz. vol. 173; p. 797.
Valve. F. E. Damron. No. 1,012,604; Dec. 26; Sp. p. 4885; Gaz. vol. 173; p. 880.
Valve. M. Leitch. No. 1,012,870; Dec. 26; Sp. p. 5503; Gaz. vol. 173; p. 973.
Valve. R. W. Scott. No. 1,013,075; Dec. 26; Sp. p 5960; Gaz. vol. 173; p. 1043.
Valve-action for explosive-engines. E. S. Cameron. No. 981,165; Jan. 10; Sp. p. 2257; Gaz. vol. 162; p. 373.
Valve-actuating device for radiators. E. L. Wilson. No. 1,002,351; Sept. 5; Sp. p. 398; Gaz. vol. 170; p. 56.
Valve actuator for locomotives, Emergency slide-. F. P. Sasaman. No. 983,089; Jan. 31; Sp. p. 6402; Gaz. vol. 162; p. 1112.
Valve adjuster, Slide-. C. W. Smith. No. 997,098; July 4; Sp. p. 1062; Gaz. vol. 168; p. 171.
Valve, Air-. L. Iversen. No. 982,680; Jan. 24; Sp. p. 5485; Gaz. vol. 162; p. 946.
Valve, Air-. C. E. Norman. No. 991,530; May 9; Sp. p. 1499; Gaz. vol. 166; p. 280.
Valve, Air-. F. H. Sauer. No. 994,481; June 6; Sp. p. 775; Gaz. vol. 167; p. 132.
Valve, Air-. F. W. Leuthesser. No. 1,008,279; Nov. 7; Sp. p. 1364; Gaz. vol. 172; p. 223.
Valve and attachment therefor, Radiator-. J. A. Serrell. No. 991,550; May 9; Sp. p. 1558; Gaz. vol. 166; p. 288.
Valve and cock. J. T. Garratt. No. 995,247; June 13; Sp. p. 2481; Gaz. vol. 167; p. 429.
Valve and cut-off, Reversible check-. H. G. Dunlap. No. 1,005,523; Oct. 10; Sp. p. 2072; Gaz. vol. 171; p. 364.
Valve and fire-alarm combined, Automatic shut-off. C. D. Miller. No. 996,110; June 27; Sp. p. 4379; Gaz. vol. 167; p. 793.
Valve and horn. I. E. Stump. No. 990,923; May 2; Sp. p. 207; Gaz. vol. 166; p. 36.
Valve and horn. I. E. Stump. No. 990,924; May 2; Sp. p. 209; Gaz. vol. 166; p. 36.
Valve and means for operating same, Reducing-. J. A. Hicks. No. 1,001,401; Aug. 22; Sp. p. 4742; Gaz. vol. 169; p. 855.
Valve and oiler, Combined throttle-. L. C. Bayles. No. 982,927; Jan. 31; Sp. p. 6042; Gaz. vol. 162; p. 1057.
Valve and operating mechanism therefor. C. J. Brethauer. No. 998,275; July 18; Sp. p. 3652; Gaz. vol. 168; p. 652.
Valve and operating mechanism therefor, Reversing-. J. C. Cromwell. No. 1,002,968; Sept. 12; Sp. p. 1755; Gaz. vol. 170; p. 304.
Valve and slip-joint, Throttle-. J. H. Freeman. No. 1,006,644; Oct. 24; Sp. p. 4606; Gaz. vol. 171; p. 821.
Valve and tap, Stop-. J. T. Sheldon. No. 1,002,000; Aug. 29; Sp. p. 6005; Gaz. vol. 169; p. 1086.
Valve and trap, Combined. W. Brunton. No. 1,004,239; Sept. 26; Sp. p. 4553; Gaz. vol. 170; p. 805.
Valve and tube-cleaning device, Ferrule-. W. P. McCloskey. No. 986,844; Mar. 14; Sp. p. 2307; Gaz. vol. 164; p. 400.
Valve and valve-actuating means. C. J. Siddall. No. 982,887; Jan. 31; Sp. p. 5956; Gaz. vol. 162; p. 1044.
Valve apparatus. J. B. Beauvais. No. 994,564; June 6; Sp. p. 964; Gaz. vol. 167; p. 159.
Valve arrangement for fluid transmission-gears. H. Lentz. No. 986,834; Mar. 14; Sp. p. 2289; Gaz. vol. 164; p. 397.
Valve arrangement, Reverse-. G. L. Dzwonkowski. No. 1,002,047; Aug. 29; Sp. p. 6097; Gaz. vol. 169; p. 1102.
Valve, Automatic. T. H. Walker. No. 982,400; Jan. 24; Sp. p. 4913; Gaz. vol. 162; p. 851.
Valve, Automatic check-. J. E. Staples. No. 1,003,819; Sept. 19; Sp. p. 3545; Gaz. vol. 170; p. 631.
Valve, Automatic choker-. B. H. Burgess and L. Camp. No. 997,900; July 11; Sp. p. 2787; Gaz. vol. 168; p. 476.
Valve, Automatic expansion-. G. Knox. No. 1,005,716. Oct. 10; Sp. p. 2514; Gaz. vol. 171; p. 432.
Valve, Automatic flush-. G. W. Goeddel. No. 1,005,703; Oct. 10; Sp. p. 2494; Gaz. vol. 171; p. 428.
Valve, Automatic flushing-. S. C. Laidley. No. 990,751; Apr. 25; Sp. p. 5353; Gaz. vol. 165; p. 924.
Valve, Automatic flushometer-. A. Dufty. No. 990,530; Apr. 25; Sp. p. 4871; Gaz. vol. 165; p. 850.
Valve, Automatic gas-. L. Scott. No. 1,001,997; Aug. 29; Sp. p. 6000; Gaz. vol. 169; p. 1086.
Valve, Automatic radiator-. A. O'Brien. No. 1,004,298; Sept. 26; Sp. p. 4661; Gaz. vol. 170; p. 825.
Valve, Automatic retaining-. G. W. Martin. No. 993,263; May 23; Sp. p. 5207; Gaz. vol. 166; p. 934.
Valve, Automatic throttle governor-. O. A. A. O. Walker. No. 993,921; May 30; Sp. p. 6612; Gaz. vol. 166; p. 1192.
Valve, Automatic time-. F. S. Hutchins. No. 981,271; Jan. 10; Sp. p. 2520; Gaz. vol. 162; p. 410.
Valve, Automatic vacuum air-. A. O'Brien. No. 998,033; July 18; Sp. p. 3107; Gaz. vol. 168; p. 565.
Valve, Automatically-operable. C. E. Hasty. No. 998,507; July 18; Sp. p. 4134; Gaz. vol. 168; p. 733.
Valve, Automatically-operable. C. E. Hasty. No. 1,010,626; Dec. 5; Sp. p. 510; Gaz. vol. 173; p. 79.
Valve, Automatically-operated. L. Koch. No. 1,005,044; Oct. 3; Sp. p. 1036; Gaz. vol. 171; p. 173.
Valve, Balanced. B. M. Aslakson. No. 985,879; Mar. 7; Sp. p. 253; Gaz. vol. 164; p. 41.
Valve, Balanced. W. F. Gould. No. 992,350; May 16; Sp. p. 3292; Gaz. vol. 166; p. 593.
Valve, Balanced. C. A. Cummings. No. 1,000,588; Aug. 15; Sp. p. 2959; Gaz. vol. 169; p. 542.
Valve, Balanced relief-. H. M. Miller. No. 996,873; July 4; Sp. p. 567; Gaz. vol. 168; p. 93.
Valve, Balanced rotary. G. B. Petsche. No. 993,401; May 30; Sp. p. 5507; Gaz. vol. 166; p. 1014.
Valve, Balanced slide-. W. F. Gould. No. 992,349; May 16; Sp. p. 3289; Gaz. vol. 166; p. 593.
Valve ball, Flush-. E. E. Walldren. No. 1,003,555; Sept. 19; Sp. p. 2967; Gaz. vol. 170; p. 541.
Valve, Blow-off. A. N. Anderson and F. W. Frank. No. 980,392; Jan. 3; Sp. p. 437; Gaz. vol. 162; p. 76.
Valve, Blow-off. F. M. Snyder. No. 993,726; May 30; Sp. p. 6240; Gaz. vol. 166; p. 1127.
Valve, Blow-off. F. A. Wardlaw. No. 993,742; May 30; Sp. p. 6278; Gaz. vol. 166; p. 1133.
Valve, Brake-. D. M. Robinson. No. 981,313; Jan. 10; Sp. p. 2610; Gaz. vol. 162; p. 424.
Valve, By-pass. A. W. Woodward. No. 999,536; Aug. 1; Sp. p. 678; Gaz. vol. 169; p. 116.
Valve, Check-. J. W. Cumley. No. 988,175; Mar 28; Sp. p. 5147; Gaz. vol. 164; p. 913.
Valve, Check-. F. W. Leidecker. No. 996,099; June 27; Sp. p. 4356; Gaz. vol. 167; p. 789.
Valve, Check-. J. Johnson. No. 1,004,654; Oct. 3; Sp. p. 223; Gaz. vol. 171; p. 39.

Valve, Check-. W. Lamb and J. S. Shields. No. 1,010,924; Dec. 5; Sp. p. 1169; Gaz. vol. 173; p. 183.
Valve-closing mechanism. H. B. Morrill. No. 994,948; June 13; Sp. p. 1886; Gaz. vol. 167; p. 332.
Valve-closure-controlling device. D. L. Knowles, Z. A. Baird, and C. Heselden. No. 1,011,814; Dec. 12; Sp. p. 3174; Gaz. vol. 173; p. 531.
Valve-closure for receptacles. J. W. Estes. No. 982,043; Jan. 17; Sp. p. 4188; Gaz. vol. 162; p. 698.
Valve-closure for water cocks or faucets, Automatic. V. L. Garcia. No. 997,124; July 4; Sp. p. 1107; Gaz. vol. 168; p. 180.
Valve, Combined shut-off and check. E. G. Watrous. No. 1,010,547; Dec. 5; Sp. p. 318; Gaz. vol. 173; p. 51.
Valve, Combined throttle and automatic stop. A. W. Lenderoth. No. 997,681; July 11; Sp. p. 2259; Gaz. vol. 168; p. 400.
Valve, Combined union and check. G. L. Kennedy. No. 996,588; June 27; Sp. p. 5460; Gaz. vol. 167; p. 955.
Valve, Compound. J. A. Burleigh. No. 998,672; July 25; Sp. p. 4514; Gaz. vol. 168; p. 823.
Valve, Compression stop and waste. J. M. Kerst. No. 980,793; Jan. 3; Sp. p. 1314; Gaz. vol. 162; p. 211.
Valve-control system. M. B. Carroll. No. 991,950; May 9; Sp. p. 2388; Gaz. vol. 166; p. 424.
Valve-controlled mechanism for gas and other fluids. H. V. Cornell. No. 981,174; Jan. 10; Sp. p. 2275; Gaz. vol. 162; p. 376.
Valve-controller mechanism. H. G. Geissinger. No. 989,543; Apr. 11; Sp. p. 2665; Gaz. vol. 165; p. 448.
Valve-controlling mechanism. T. Hughes. No. 985,414; Feb. 28; Sp. p. 4675; Gaz. vol. 163; p. 834.
Valve coupling, Float-. T. D. Millea. No. 1,009,031; Nov. 14; Sp. p. 3127; Gaz. vol. 172; p. 520.
Valve, Cut-off. J. D. Buckalew. No. 1,006,353; Oct. 17; Sp. p. 3935; Gaz. vol. 171; p. 688.
Valve device. B. Pierson. No. 1,005,465; Oct. 10; Sp. p. 1947; Gaz. vol. 171; p. 344.
Valve device, Flushing-. R. W. Killin. No. 1,005,713; Oct. 10; Sp. p. 2507; Gaz. vol. 171; p. 430.
Valve device, Thermostatic. E. W. Comfort. No. 1,004,684; Oct. 3; Sp. p. 289; Gaz. vol. 171; p. 49.
Valve device, Triple-. J. S. Custer and H. M. P. Murphy. No. 988,629; Apr. 4; Sp. p. 735; Gaz. vol. 165; p. 117.
Valve, Diaphragm-. G. Dalén. No. 1,011,922; Dec. 19; Sp. p. 3434; Gaz. vol. 173; p. 601.
Valve, Direct-pressure. C. A. Wulf. No. 984,410; Feb. 14; Sp. p. 2488; Gaz. vol. 163; p. 422.
Valve, Drain-. C. L. Armstrong. No. 984,994; Feb. 21; Sp. p. 3720; Gaz. vol. 163; p. 657.
Valve, Drain-. E. S. Stotts. No. 996,600; June 27; Sp. p. 5481; Gaz. vol. 167; p. 959.
Valve, Drain-. W. C. Hammond. No. 1,008,817; Nov. 14; Sp. p. 2677; Gaz. vol. 172; p. 449.
Valve, Electrically-controlled. R. T. Jones. No. 993,072; May 23; Sp. p. 4818; Gaz vol. 166; p. 874.
Valve, Engine-. L. Skinner. No. 990,304; Apr. 25; Sp. p. 4322; Gaz. vol. 165; p. 769.
Valve, Engine-. L. Skinner. No. 990,305; Apr. 25; Sp. p. 4324; Gaz. vol. 165; p. 770.
Valve, Engine pressure-equalizing. C. G. Stone. No. 1,004,493; Sept. 26; Sp. p. 5062; Gaz. vol. 170; p. 891.
Valve, Engineer's. E. Gonzenbach. No. 990,976; May 2; Sp. p. 313; Gaz. vol. 166; p. 54.
Valve, Engineer's. J. Reichmann. No. 1,001,552; Aug. 22; Sp. p. 5011; Gaz. vol. 169; p. 904.
Valve, Engineer's. W. A. Pendry. No. 1,006,498; Oct. 24; Sp. p. 4281; Gaz. vol. 171; p. 769.
Valve, Escape-. J. D. Brower, Jr. No. 1,005,686; Oct. 10; Sp. p. 2460; Gaz. vol. 171; p. 422.
Valve, Feed-water-strainer. J. H. Watters. No. 999,532; Aug. 1; Sp. p. 670; Gaz. vol. 169; p. 115.
Valve, Float-. G. C. Elliott. No. 980,225; Jan. 3; Sp. p. 95; Gaz. vol. 162; p. 19.
Valve, Float-. J. Rothchild and H. S. Conover. No. 1,007,009; Oct. 24; Sp. p. 5396; Gaz. vol. 171; p. 946.
Valve, Float-. T. F. Foley. No. 1,007,191; Oct. 31; Sp. p. 5835; Gaz. vol. 171; p. 1065.
Valve-float. L. A. Cornelius. No. 992,546; May 16; Sp. p. 3700; Gaz. vol. 166; p. 662.
Valve, Fluid-. W. C. Westaway. No. 1,011,686; Dec. 12; Sp. p. 2910; Gaz. vol. 173; p. 486.
Valve, Fluid-operated. E. P. Noyes. No. 988,495; Apr. 4; Sp. p. 432; Gaz. vol. 165; p. 71.
Valve, Fluid-pressure. L. J. Bordo. No. 988,689; Apr. 4; Sp. p. 849; Gaz. vol. 165; p. 137.
Valve, Fluid-pressure. W. W. Temples. No. 999,273; Aug. 1; Sp. p. 154; Gaz. vol. 169; p. 29.
Valve, Flush-. W. R. Willetts. No. 996,186; June 27; Sp. p. 4592; Gaz. vol. 167; p. 819.
Valve, Flush-. J. Lafrance. No. 1,006,956; Oct. 24; Sp. p. 5279; Gaz. vol. 171; p. 929.
Valve, Flush-. M. S. Matthias. No. 1,012,394; Dec. 19; Sp. p. 4460; Gaz. vol. 173; p. 764.
Valve, Flushing-. W. G. Miller, Jr. No. 981,212; Jan. 10; Sp. p. 2352; Gaz. vol. 162; p. 388.
Valve, Flushing-. J. H. Mahoney. No. 986,478; Mar. 14; Sp. p. 1531; Gaz. vol. 164; p. 275.
Valve, Flushing-. J. L. Williams and J. C. Sturgeon. No. 992,315; May 16; Sp. p. 3196; Gaz. vol. 166; p. 580.
Valve, Flushing-. T. W. Keen. No. 996,346; June 27; Sp. p. 4959; Gaz. vol. 167; p. 873.
Valve, Flushing-. G. O. Hilton. No. 1,004,650; Oct. 3; Sp. p. 215; Gaz. vol. 171; p. 37.
Valve, Flushing-. J. S. Judell. No. 1,005,117; Oct. 3; Sp. p. 1161; Gaz. vol. 171; p. 196.
Valve, Flushing-. H. R. Gilson. No. 1,005,641; Oct. 10; Sp. p. 2361; Gaz. vol. 171; p. 405.
Valve, Foot-operated. V. D. Renwick, Jr. No. 1,004,467; Sept. 26; Sp. p. 5010; Gaz. vol. 170; p. 881.
Valve for air-brake systems. C. W. Carroll. No. 1,011,318; Dec. 12; Sp. p. 2085; Gaz. vol. 173; p. 357.
Valve for air-brake systems, Automatic retaining-. A. Milligan. No. 1,008,353; Nov. 14; Sp. p. 1575; Gaz. vol. 172; p. 286.
Valve for air-brakes, Distributing-. S. G. Neal. No. 1,012,693; Dec. 26; Sp. p. 5076; Gaz. vol. 173; p. 911.
Valve for air-brakes, Triple. S. G. Neal. No. 1,012,694; Dec. 26; Sp. p. 5081; Gaz. vol. 173; p. 911.
Valve for air-brakes, Triple. S. G. Neal. No. 1,012,695; Dec. 26; Sp. p. 5085; Gaz. vol. 173; p. 912.
Valve for beer-tapping apparatus, Check-. H. Rasbridge. No. 1,000,121; Aug. 8; Sp. p. 1922; Gaz. vol. 169; p. 346.
Valve for blowing-engines. L. Iversen. No. 1,012,359; Dec. 19; Sp. p. 4397; Gaz. vol. 173; p. 753.
Valve for boilers, Check-. E. J. Shearer and A. A. Gervais. No. 997,862; July 11; Sp. p. 2702; Gaz. vol. 168; p. 463.
Valve for brake mechanism, Automatic triple. W. S. Nicholson. No. 996,117; June 27; Sp. p. 4393; Gaz. vol. 167; p. 796.
Valve for controlling the water-inlet of automatic sprinkler systems. R. B. Hewitt. No. 982,719; Jan. 24; Sp. p. 5570; Gaz. vol. 162; p. 958.
Valve for elevators, Automatic shut-off. T. Larsson. No. 1,009,074; Nov. 21; Sp. p. 3226; Gaz. vol. 172; p. 572.
Valve for fire-engines, Relief-. T. J. Pagel. No. 996,125; June 27; Sp. p. 4414; Gaz. vol. 167; p. 799.
Valve for fluid-pressure brakes, Triple. J. W. Robinson and F. L. Douglas. No. 1,005,314; Oct. 10; Sp. p. 1628; Gaz. vol. 171; p. 291.
Valve for gas-burners. C. R. Franks. No. 981,630; Jan. 17; Sp. p. 3271; Gaz. vol. 162; p. 555.
Valve for gas-engines, Exhaust-. G. B. Petsche. No. 989,536; Apr. 11; Sp. p. 2649; Gaz. vol. 165; p. 445.
Valve for gas-engines, Governing-. W. O. Platt. No. 984,023; Feb. 14; Sp. p. 1690; Gaz. vol. 163; p. 291.
Valve for gas-engines, Starting-. B. M. Aslakson. No. 1,009,626; Nov. 21; Sp. p. 4431; Gaz. vol. 172; p. 763.
Valve for gas-jets, Cut-off. T. A. Barrett. No. 981,606; Jan. 17; Sp. p. 3219; Gaz. vol. 162; p. 546.
Valve for gas-lamps. T. J. Litle, Jr. No. 1,003,001; Sept. 12; Sp. p. 1822; Gaz. vol. 170; p. 315.
Valve for gas-producer plants, Purge-. N. H. Henderson. No. 1,001,028; Aug. 22; Sp. p. 3966; Gaz. vol. 169; p. 729.
Valve for gasolene-engines, Generator-. F. L. Swanberg. No. 994,886; June 13; Sp. p. 1759; Gaz. vol. 167; p. 311.
Valve for heating systems. E. E. Gold. No. 985,410; Feb. 28; Sp. p. 4657; Gaz. vol. 163; p. 833.
Valve for hydraulic elevators, Automatic stop-. I. H. Venn. No. 986,328; Mar. 7; Sp. p. 1193; Gaz. vol. 164; p. 193.
Valve for hydrocarbon-engines, Mixing-. P. D. Johnston. No. 981,825; Jan. 17; Sp. p. 5815; Gaz. vol. 162; p. 1023.
Valve for internal-combustion engines. C. N. Teetor. No. 1,009,599; Nov. 21; Sp. p. 4380; Gaz. vol. 172; p. 755.
Valve for internal-combustion engines. J. E. Sears. No. 1,011,861; Dec. 12; Sp. p. 3278; Gaz. vol. 173; p. 545.
Valve for internal-combustion engines, Fuel-. G. O. Tobias. No. 981,819; Jan. 17; Sp. p. 3667; Gaz. vol. 162; p. 620.
Valve for internal-combustion engines, Mixing-. P. D. Johnston. No. 982,826; Jan. 24; Sp. p. 5818; Gaz. vol. 162; p. 1023.
Valve for internal-combustion engines, Rotary. W. H. Clegg. No. 980,761; Jan. 3; Sp. p. 1244; Gaz. vol. 162; p. 200.
Valve for measured liquid-supply, Ported plug-. D., D. R., and R. C. Grundy. No. 992,190; May 16; Sp. p. 2878; Gaz. vol. 166; p. 536.
Valve for motors. J. M. Barbé. No. 1,008,687; Nov. 14; Sp. p. 2399; Gaz. vol. 172; p. 405.
Valve for oil and gas wells, Shut-off. W. A. Ruth. No. 998,400; July 18; Sp. p. 3934; Gaz. vol. 168; p. 697.
Valve for oil-tanks, Air-. J. M. McDonald. No. 980,810; Jan. 3; Sp. p. 1349; Gaz. vol. 162; p. 216.
Valve for pipes which convey melted sulfur. H. Frasch. No. 988,994; Apr. 11; Sp. p. 1482; Gaz. vol. 165; p. 260.
Valve for pneumatic cleaning systems, Wall-. J. T. Hope. No. 980,418; Jan. 3; Sp. p. 496; Gaz. vol. 162; p. 85.
Valve for pneumatic-despatch-tube apparatus. I. W. Litchfield. No. 992,784; May 23; Sp. p. 4181; Gaz. vol. 166; p. 772.
Valve for refrigerating systems, Expansion-. C. W. Spellmeyer. No. 1,002,463; Sept. 5; Sp. p. 646; Gaz. vol. 170; p. 93.
Valve for sewers, Regulator-. C. H. Dodd and R. J. McNulty. No. 993,587; May 30; Sp. p. 5914; Gaz. vol. 166; p. 1078.

Alphabetical list of inventions—Continued.

Valve for steam and hot-water radiators, Automatic. W. Houser. No. 991,064; May 2; Sp. p. 488; Gaz. vol. 166; p. 84.
Valve for steam apparatus, Automatic. J. L. Fitts and J. E. G. Montgomery. No. 1,002,252; Sept. 5; Sp. p. 149; Gaz. vol. 170; p. 18.
Valve for steam-boilers and the like, Mud-eduction. H. Baltes. No. 994,438; June 6; Sp. p. 698; Gaz. vol. 167; p. 119.
Valve for steam-chests, Lubricator-. F. W. Edwards. No. 981,544; Jan. 10; Sp. p. 3090; Gaz. vol. 162; p. 504.
Valve for steam-engines, Throttle-. W. F. Hartzell. No. 994,587; June 6; Sp. p. 1010; Gaz. vol. 167; p. 168.
Valve for train-pipe couplings, Automatic check-. J. C. Kepner. No. 986,992; Mar. 14; Sp. p. 2595; Gaz. vol. 164; p. 449.
Valve for two-cylinder engines. A. B. Wilmot. No. 998,064; July 18; Sp. p. 3175; Gaz. vol. 168; p. 576.
Valve for vapor-burners. T. Nagel. No. 984,776; Feb. 21; Sp. p. 3322; Gaz. vol. 163; p. 586.
Valve for vessels containing liquids, Venting and discharging. T. F. Fitzsimons. No. 1,011,936; Dec. 19; Sp. p. 3465; Gaz. vol. 173; p. 606.
Valve for water-gages, Automatic safety-. W. H. Bray. No. 981,370; Jan. 10; Sp. p. 2734; Gaz. vol. 162; p. 444.
Valve for water-heaters. B. R. Parrott. No. 984,440; Feb. 14; Sp. p. 2551; Gaz. vol. 163; p. 432.
Valve for water-heaters, Automatic. W. E. Kay. No. 981,571; Jan. 10; Sp. p. 3143; Gaz. vol. 162; p. 513.
Valve for water or other liquid carrying conduits, Vent-. E. Burgess. No. 1,009,044; Nov. 21; Sp. p. 3164; Gaz. vol. 172; p. 561.
Valve for water-pipes, &c., Auxiliary. G. A. Blake. No. 1,010,220; Nov. 28; Sp. p. 5643; Gaz. vol. 172; p. 1010.
Valve for water-taps. W. Lentz. No. 988,943; Apr. 4; Sp. p. 1368; Gaz. vol. 165; p. 219.
Valve, Gas-. M. Popkin. No. 984,701; Feb. 21; Sp. p. 3155; Gaz. vol. 163; p. 558.
Valve, Gas-. G. M. S. Tait. No. 998,931; July 25; Sp. p. 5103; Gaz. vol. 168; p. 915.
Valve, Gas-. J. A. Herrick. No. 1,001,399; Aug. 22; Sp. p. 4736; Gaz. vol. 169; p. 854.
Valve, Gas-engine. O. Ducker. No. 1,010,353; Nov. 28; Sp. p. 5921; Gaz. vol. 172; p. 1054.
Valve, Gas-regulating. A. G. Baker. No. 1,007,664; Nov. 7; Sp. p. 8; Gaz. vol. 172; p. 4.
Valve, Gate-. A. J. Collar. No. 982,036; Jan. 17; Sp. p. 4164; Gaz. vol. 162; p. 695.
Valve, Gate-. C. L. Bowker. No. 991,690; May 9; Sp. p. 1874; Gaz. vol. 166; p. 338.
Valve, Gate-. F. R. Banks. No. 992,933; May 23; Sp. p. 4522; Gaz. vol. 166; p. 827.
Valve, Gate-. W. E. Crist. No. 1,005,165; Oct. 10; Sp. p. 1267; Gaz. vol. 171; p. 236.
Valve, Gate-. G. Hanley. No. 1,006,084; Oct. 17; Sp. p. 3315; Gaz. vol. 171; p. 592.
Valve, Gate-. F. P. Snow. No. 1,012,173; Dec. 19; Sp. p. 4003; Gaz. vol. 173; p. 689.
Valve-gear. M. M. and D. J. Mulvihill, J. P. and M. L. Rooney. No. 980,820; Jan. 3; Sp. p. 1376; Gaz. vol. 162; p. 220.
Valve-gear. T. C. Sewell. No. 983,843; Feb. 7; Sp. p. 1260; Gaz. vol. 163; p. 212.
Valve-gear. D. P. Davies. No. 995,229; June 13; Sp. p. 2452; Gaz. vol. 167; p. 424.
Valve-gear. A. C. Smith and W. E. Rickey. No. 1,001,899; Aug. 29; Sp. p. 5784; Gaz. vol. 169; p. 1054.
Valve-gear. J. B. Allfree. No. 1,002,112; Aug. 29; Sp. p. 6204; Gaz. vol. 169; p. 1122.
Valve-gear. A. D. Skinner. No. 1,003,664; Sept. 19; Sp. p. 3217; Gaz. vol. 170; p. 580.
Valve-gear. J. Davidson. No. 1,008,121; Nov. 7; Sp. p. 1017; Gaz. vol. 172; p. 165.
Valve-gear. C. B. Ross. No. 1,012,711; Dec. 26; Sp. p. 5128; Gaz. vol. 173; p. 919.
Valve-gear, Corliss. I. J. Lauhon. No. 991,330; May 2; Sp. p. 1083; Gaz. vol. 166; p. 181.
Valve-gear for apparatus for raising liquids. H. Pauling. No. 998,388; July 18; Sp. p. 3914; Gaz. vol. 168; p. 693.
Valve gear for compound engines, Controlling-. F. E. Norton. No. 1,004,296; Sept. 26; Sp. p. 4654; Gaz. vol. 170; p. 824.
Valve-gear for engines. C. D. Parker. No. 983,564; Feb. 7; Sp. p. 681; Gaz. vol. 163; p. 105.
Valve-gear for engines, Reversing. G. W. Shank. No. 1,013,076; Dec. 26; Sp. p. 5961; Gaz. vol. 173; p. 1043.
Valve-gear for engines, Variable-cut-off. A. D. Baker. No. 1,008,405; Nov. 14; Sp. p. 1744; Gaz. vol. 172; p. 305.
Valve-gear for fluid-pressure engines. A. M. Stanley. No. 995,384; June 13; Sp. p. 2794; Gaz. vol. 167; p. 476.
Valve-gear for fluid-pressure engines. H. W. Aylward. No. 1,005,923; Oct. 17; Sp. p. 2977; Gaz. vol. 171; p. 538.
Valve-gear for stationary engines. C. J. Pilliod. No. 982,987; Jan. 31; Sp. p. 6165; Gaz. vol. 162; p. 1077.
Valve gear, Liberating cut-off-. N. W. Twiss. No. 1,006,808; Oct. 24; Sp. p. 4956; Gaz. vol. 171; p. 878.
Valve-gear, Link-motion. N. K. Rensland. No. 1,006,275; Oct. 17; Sp. p. 3766; Gaz. vol. 171; p. 662.
Valve-gear, Locomotive. H. J. Pilliod. No. 982,989; Jan. 31; Sp. p. 6171; Gaz. vol. 162; p. 1078.
Valve-gear, Locomotive. H. J. Pilliod. No. 982,990; Jan. 31; Sp. p. 6178; Gaz. vol. 162; p. 1078.
Valve-gear, Locomotive. H. J. Pilliod. No. 982,991; Jan. 31; Sp. p. 6182; Gaz. vol. 162; p. 1078.
Valve-gear, Locomotive. A. Jendrusik. No. 990,656; Apr. 25; Sp. p. 5148; Gaz. vol. 165; p. 892.
Valve-gear of internal-combustion engines. F. W. Lanchester. No. 990,752; Apr. 25; Sp. p. 5359; Gaz. vol. 165; p. 925.
Valve-gear, Reversible. O. T. Isaacson. No. 1,012,084; Dec. 19; Sp. p. 3805; Gaz. vol. 173; p. 659.
Valve-gear, Turbine. C. E. Little. No. 992,432; May 16; Sp. p. 3452; Gaz. vol. 166; p. 621.
Valve-gear, Turbine. H. J. Hanzlik. No. 1,006,654; Oct. 24; Sp. p. 4624; Gaz. vol. 171; p. 824.
Valve-gearing. G. H. Jones. No. 986,175; Mar. 7; Sp. p. 876; Gaz. vol. 164; p. 141.
Valve, Globe-. J. L. Schrode. No. 991,095; May 2; Sp. p. 556; Gaz. vol. 166; p. 96.
Valve, Globe-. S. A. Dennis. No. 1,004,752; Oct. 3; Sp. p. 442; Gaz. vol. 171; p. 74.
Valve-governor. F. L. Cross. No. 983,876; Feb. 14; Sp. p. 1354; Gaz. vol. 163; p. 243.
Valve-grinder. J. Y. Porter, Jr. No. 983,084; Jan. 31; Sp. p. 6391; Gaz. vol. 162; p. 1110.
Valve-grinder. E. E. Townsend. No. 996,435; June 27; Sp. p. 5166; Gaz. vol. 167; p. 904.
Valve-grinder P. Recconi. No. 1,000,553; Aug. 15; Sp. p. 2874; Gaz. vol. 169; p. 527.
Valve-grinding apparatus. W. L. Milner. No. 1,005,864; Oct. 17; Sp. p. 2838; Gaz. vol. 171; p. 516.
Valve-grinding device. D. G. Vaughn. No. 1,010,829; Dec. 5; Sp. p. 955; Gaz. vol. 173; p. 149.
Valve-grinding implement. E. Colburn. No. 998,957; July 25; Sp. p. 5181; Gaz. vol. 168; p. 925.
Valve-grinding machine. H. F. Waters. No. 1,003,832; Sept. 19; Sp. p. 3568; Gaz. vol. 170; p. 635.
Valve-grinding tool. C. A. Herle. No. 995,002; June 13; Sp. p. 2001; Gaz. vol. 167; p. 350.
Valve-guard. J. J. Kelly. No. 994,409; June 6; Sp. p. 644; Gaz. vol. 167; p. 110.
Valve, High-pressure packless. F. C. Emrick. No. 1,012,067; Dec. 19; Sp. p. 3767; Gaz. vol. 173; p. 653.
Valve, Hot-blast. F. McCarthy. No. 997,461; July 11; Sp. p. 1786; Gaz. vol. 168; p. 324.
Valve, Hydraulic. C. Sutter and L. L. Willfong. No. 994,544; June 6; Sp. p. 923; Gaz. vol. 167; p. 152.
Valve-indicator. J. A. Cole. No. 989,835; Apr. 18; Sp. p. 3316; Gaz. vol. 165; p. 579.
Valve, Injector-. W. Vial. No. 1,002,884; Sept. 12; Sp. p. 1586; Gaz. vol. 170; p. 275.
Valve, Inspection and mixing. J. B. Livingston. No. 999,575; Aug. 1; Sp. p. 757; Gaz. vol. 169; p. 131.
Valve, Irrigation-. V. V. Messer. No. 989,920; Apr. 18; Sp. p. 3490; Gaz. vol. 165; p. 607.
Valve, Irrigation-. F. P. Snow. No. 999,409; Aug. 1; Sp. p. 425; Gaz. vol. 169; p. 75.
Valve, Laundry-washer. H. Hessenius and J. M. Kolkema. No. 981,854; Jan. 17; Sp. p. 3744; Gaz. vol. 162; p. 632.
Valve, Lever-actuated locking-. J. E. Rickertt. No. 1,005,311; Oct. 10; Sp. p. 1623; Gaz. vol. 171; p. 290.
Valve levers, Stop for throttle-. C. L. Dickert. No. 1,004,388; Sept. 26; Sp. p. 4843; Gaz. vol. 170; p. 855.
Valve, Liquid-seal back-pressure. H. Knapp. No. 994,645; June 6; Sp. p. 1148; Gaz. vol. 167; p. 188.
Valve, Lock-. M. J. Austin. No. 985,100; Feb. 21; Sp. p. 3929; Gaz. vol. 163; p. 694.
Valve-locking device. F. C. Shepard. No. 1,003,211; Sept. 12; Sp. p. 2264; Gaz. vol. 170; p. 389.
Valve, Locomotive-. C. W. Mannooch. No. 990,057; Apr. 18; Sp. p. 3778; Gaz. vol. 165; p. 653.
Valve, Lubricating-. C. Senn and D. C. Demarest. No. 984,305; Feb. 14; Sp. p. 2296; Gaz. vol. 163; p. 388.
Valve mechanism. J. W. Ledoux. No. 984,820; Feb. 21; Sp. p. 3403; Gaz. vol. 163; p. 600.
Valve mechanism. W. K. Rankin. No. 986,592; Mar. 14; Sp. p. 1778; Gaz. vol. 164; p. 314.
Valve mechanism. G. H. Watt. No. 992,089; May 9; Sp. p. 2643; Gaz. vol. 166; p. 470.
Valve mechanism. A. D. Catlin. No. 992,161; May 16; Sp. p. 2826; Gaz. vol. 166; p. 526.
Valve mechanism. F. C. Merrege. No. 992,729; May 16; Sp. p. 4055; Gaz. vol. 166; p. 724.
Valve mechanism. A. J. Richmond. No. 993,621; May 30; Sp. p. 5995; Gaz. vol. 166; p. 1091.
Valve mechanism. W. Rabsilber. No. 998,801; July 25; Sp. p. 4805; Gaz. vol. 168; p. 869.
Valve mechanism. B. Meyer. No. 999,392; Aug. 1; Sp. p. 398; Gaz. vol. 169; p. 70.
Valve mechanism. J. W. Ledoux. No. 1,000,022; Aug. 8; Sp. p. 1665; Gaz. vol. 169; p. 312.
Valve mechanism. W. B. Hughes. No. 1,000,173; Aug. 8; Sp. p. 2029; Gaz. vol. 169; p. 363.
Valve mechanism. L. S. Chadwick. No. 1,001,352; Aug. 22; Sp. p. 4637; Gaz. vol. 169; p. 838.
Valve mechanism. W. I. Morgan. No. 1,004,892; Oct. 3; Sp. p. 762; Gaz. vol. 171; p. 122.
Valve mechanism. L. Saussard. No. 1,007,609; Oct. 31; Sp. p. 6723; Gaz. vol. 171; p. 1210.

Valve mechanism. H. S. Humphrey. No. 1,007,699; Nov. 7; Sp. p. 100; Gaz. vol. 172; p. 16.
Valve mechanism. C. Christiansen. No. 1,010,859; Dec. 5; Sp. p. 1028; Gaz. vol. 173; p. 160.
Valve mechanism comprising a rotary valve. W. W. Clark. No. 987,215; Mar. 21; Sp. p. 3079; Gaz. vol. 164; p. 558.
Valve mechanism, Engine. O. Treier. No. 997,105; July 4; Sp. p. 1075; Gaz. vol. 168; p. 174.
Valve mechanism, Fluid-controlling. W. B. Thompson. No. 1,001,324; Aug. 22; Sp. p. 4580; Gaz. vol. 169; p. 828.
Valve mechanism, Flush-. J. M. Young. No. 999,619; Aug. 1; Sp. p. 832; Gaz. vol. 169; p. 145.
Valve mechanism for air-compressors. J. Astrom. No. 986,122; Mar. 7; Sp. p. 769; Gaz. vol. 164; p. 124.
Valve mechanism for explosion-engines. C. R. Greuter. No. 987,801; Mar. 28; Sp. p. 4316; Gaz. vol. 164; p. 786.
Valve mechanism for gas. C. H. Miller. No. 1,010,665; Dec. 5; Sp. p. 582; Gaz. vol. 173; p. 93.
Valve mechanism for internal-combustion engines. C. E. Drummond and F. J. Bostock. No. 983,220; Jan. 31; Sp. p. 6645; Gaz. vol. 162; p. 1156.
Valve mechanism for internal-combustion engines. A. E. Osborn. No. 987,164; Mar. 21; Sp. p. 2962; Gaz. vol. 164; p. 539.
Valve mechanism for internal-combustion engines. J. H. Richards and B. Bellingham. No. 993,875; May 30; Sp. p. 6535; Gaz. vol. 166; p. 1178.
Valve mechanism for internal-combustion engines. A. P. Plaut. No. 1,006,677; Oct. 24; Sp. p. 4670; Gaz. vol. 171; p. 832.
Valve mechanism for regenerative furnaces. L. N. McDonald. No. 987,734; Mar. 28; Sp. p. 4179; Gaz. vol. 164; p. 763.
Valve mechanism for steam hydraulic presses. H. A. Jensenius. No. 1,005,225; Oct. 10; Sp. p. 1406; Gaz. vol. 171; p. 257.
Valve mechanism for street-hydrants. C. L. Howes. No. 997,192; July 4; Sp. p. 1249; Gaz. vol. 168; p. 203.
Valve mechanism for supplying locomotives with water, Bridge-. F. C. Anderson. No. 995,584; June 20; Sp. p. 3254; Gaz. vol. 167; p. 575.
Valve mechanism for water-columns. F. C. Anderson. No. 981,352; Jan. 10; Sp. p. 2705; Gaz. vol. 162; p. 438.
Valve mechanism, Gas-engine. R. M. Roof. No. 995,807; June 20; Sp. p. 3753; Gaz. vol. 167; p. 654.
Valve mechanism, Reversing-. W. C. Post. No. 1,000,193; Aug. 8; Sp. p. 2083; Gaz. vol. 169; p. 370.
Valve mechanism, Water-wheel. C. S. Wenger. No. 992,309; May 16; Sp. p. 3184; Gaz. vol. 166; p. 579.
Valve, Mixing-. E. F. Niedecken. No. 1,001,431; Aug. 22; Sp. p. 4797; Gaz. vol. 169; p. 864.
Valve-motion. S. B. Adams. No. 991,186; May 2; Sp. p. 763; Gaz. vol. 166; p. 129.
Valve-motion for rock-drills. L. C. Bayles. (Reissue.) No. 13,317; Nov. 21; Sp. p. 4597; Gaz. vol. 172; p. 793.
Valve, Motive-fluid-supply. E. Hubbard. No. 999,033; July 25; Sp. p. 5351; Gaz. vol. 168; p. 952.
Valve, Needle-. F. L. Ordway. No. 997,506; July 11; Sp. p. 1877; Gaz. vol. 168; p. 338.
Valve, Non-pulsating automatic fluid-. S. A. Reeve. No. 1,013,093; Dec. 26; Sp. p. 5999; Gaz. vol. 173; p. 1049.
Valve, Non-scalding. F. Hoffmann. No. 982,498; Jan. 24; Sp. p. 5132; Gaz. vol. 162; p. 885.
Valve of internal-combustion engines. J. E. Sears. No. 1,010,189; Nov. 28; Sp. p. 5584; Gaz. vol. 172; p. 1000.
Valve-opening device. G. A. Farrah. No. 984,084; Feb. 14; Sp. p. 1819; Gaz. vol. 163; p. 313.
Valve operating and indicating mechanism. L. F. Bellingrath. No. 1,003,131; Sept. 12; Sp. p. 2085; Gaz. vol. 170; p. 359.
Valve-operating device for tanks, Automatic. C. M. Moore. No. 997,844; July 11; Sp. p. 2662; Gaz. vol. 168; p. 457.
Valve-operating gear for steam-engines. G. Dixon. No. 1,009,652; Nov. 21; Sp. p. 4472; Gaz. vol. 172; p. 771.
Valve-operating mechanism. J. F. Jennings. No. 996,587; June 27; Sp. p. 5458; Gaz. vol. 167; p. 954.
Valve-operating mechanism. J. Allingham. No. 1,002,953; Sept. 12; Sp. p. 1732; Gaz. vol. 170; p. 300.
Valve-operating mechanism. G. J. Wittmann and P. E. King. No. 1,009,611; Nov. 21; Sp. p. 4403; Gaz. vol. 172; p. 759.
Valve-operating mechanism, Flushing-. J. M. Young. No. 987,030; Mar. 14; Sp. p. 2666; Gaz. vol. 164; p. 461.
Valve-operating mechanism for explosive-engines. A. Winton. No. 1,011,695; Dec. 12; Sp. p. 2926; Gaz. vol. 173; p. 489.
Valve or gate. F. P. Snow. No. 989,201; Apr. 11; Sp. p. 1904; Gaz. vol. 165; p. 330.
Valve, Oscillating-engine. J. Fitzgerald. No. 994,582; June 6; Sp. p. 999; Gaz. vol. 167; p. 166.
Valve, Overbalanced fluid-pressure. E. P. Noyes. No. 991,230; May 2; Sp. p. 854; Gaz. vol. 166; p. 145.
Valve, Packless and quick-acting. C. Patock. No. 999,333; Aug. 1; Sp. p. 267; Gaz. vol. 169; p. 49.
Valve, Piston-. J. F. Schiller. No. 996,680; July 4; Sp. p. 167; Gaz. vol. 168; p. 30.
Valve, Piston-. M. Christman and E. Johnson. (Reissue.) No. 13,272; July 18; Sp. p. 4325; Gaz. vol. 168; p. 764.
Valve, Plug and gate. F. L. Smith and T. B. Williams. No. 982,446; Jan. 24; Sp. p. 5026; Gaz. vol. 162; p. 868.
Valve, Pressure flush-. J. F. Diaz. No. 1,001,256; Aug. 22; Sp. p. 4420; Gaz. vol. 169; p. 803.
Valve, Pressure-regulating. G. Holmen. No. 990,557; Apr. 25; Sp. p. 4926; Gaz. vol. 165; p. 859.
Valve, Radiator-. J. B. Morgan and M. F. Clark. No. 985,196; Feb. 28; Sp. p. 4189; Gaz. vol. 163; p. 762.
Valve, Radiator air-. A. O'Brien. No. 992,039; May 9; Sp. p. 2549; Gaz. vol. 166; p. 453.
Valve, Radiator return-. S. D. Chapman. No. 1,006,629; Oct. 24; Sp. p. 4580; Gaz. vol. 171; p. 816.
Valve raiser, Oil-well-. H. Sark. No. 1,003,207; Sept. 12; Sp. p. 2259; Gaz. vol. 170; p. 388.
Valve, Reducing-. J., A., Jr., and D. A. Graham. No. 986,165; Mar. 7; Sp. p. 850; Gaz. vol. 164; p. 137.
Valve, Reducing-. C. J. Coleman. No. 997,272; July 11; Sp. p. 1421; Gaz. vol. 168; p. 261.
Valve, Regenerative-furnace. W. Ahlen. No. 991,592; May 9; Sp. p. 1653; Gaz. vol. 166; p. 304.
Valve, Regulating-. E. T. Winkler. No. 982,195; Jan. 17; Sp. p. 4463; Gaz. vol. 162; p. 748.
Valve, Regulating-. E. C. Sherman. No. 986,410; Mar. 7; Sp. p. 1375; Gaz. vol. 164; p. 222.
Valve, Regulating-. G. Taylor. No. 993,806; May 30; Sp. p. 6400; Gaz. vol. 166; p. 1154.
Valve, Regulating-. G. W. Collin. No. 1,001,620; Aug. 29; Sp. p. 5165; Gaz. vol. 169; p. 957.
Valve regulator, Exhaust-. H. J. Criner. No. 998,327; July 18; Sp. p. 3782; Gaz. vol. 168; p. 672.
Valve-release mechanism for steam-engines. A. Van Brunt. No. 1,003,165; Sept. 12; Sp. p. 2154; Gaz. vol. 170; p. 370.
Valve-releasing mechanism for dumping-cars. J. M. Goodwin. No. 980,629; Jan. 3; Sp. p. 964; Gaz. vol. 162; p. 157.
Valve-releasing tool. C. Billhoff. No. 1,006,185; Oct. 17; Sp. p. 3559; Gaz. vol. 171; p. 630.
Valve, Relief-. E. Rothlisberger. No. 989,809; Apr. 18; Sp. p. 3261; Gaz. vol. 165; p. 569.
Valve, Relief-. J. S. Thurman. No. 991,671; May 9; Sp. p. 1828; Gaz. vol. 166; p. 331.
Valve-removing apparatus. N. P. Sjöholm. No. 1,000,559; Aug. 15; Sp. p. 2885; Gaz. vol. 169; p. 529.
Valve-removing device. F. J. Whitelaw. No. 1,009,875; Nov. 28; Sp. p. 4947; Gaz. vol. 172; p. 894.
Valve-reseating machines on large valve-cases, Adjustable plate for fixing small. A. E. Carr. No. 981,747; Jan. 17; Sp. p. 3499; Gaz. vol. 162; p. 593.
Valve-reseating tool. F. Nold. No. 996,664; July 4; Sp. p. 138; Gaz. vol. 168; p. 24.
Valve, Retarded-release. J. S. Custer. No. 1,003,990; Sept. 26; Sp. p. 3962; Gaz. vol. 170; p. 717.
Valve, Reversible stop and check. J. W. Grantland. No. 1,007,560; Oct. 31; Sp. p. 6618; Gaz. vol. 171; p. 1193.
Valve, Reversing-. H. E. Schild. No. 1,000,629; Aug. 15; Sp. p. 3061; Gaz. vol. 169; p. 556.
Valve-reversing gear. O. A. Donath. No. 991,489; May 9; Sp. p. 1416; Gaz. vol. 166; p. 266.
Valve-rod and wrist-pin connection. A. Bergeron. No. 1,011,148; Dec. 12; Sp. p. 1682; Gaz. vol. 173; p. 296.
Valve, Rotary. B. Smartt. No. 981,019; Jan. 10; Sp. p. 1946; Gaz. vol. 162; p. 321.
Valve, Rotary. C. H. Harkins. No. 986,284; Mar. 7; Sp. p. 1096; Gaz. vol. 164; p. 176.
Valve, Rotary. P. L. Tenney. No. 994,620; June 6; Sp. p. 1072; Gaz. vol. 167; p. 179.
Valve, Rotary. C. E. Mead. No. 1,007,040; Oct. 24; Sp. p. 5458; Gaz. vol. 171; p. 956.
Valve, Rotary gas-engine. W. E. Ewart. No. 983,546; Feb. 7; Sp. p. 629; Gaz. vol. 163; p. 99.
Valve, Safety-. N. Goodyear. No. 985,160; Feb. 28; Sp. p. 4114; Gaz. vol. 163; p. 749.
Valve, Safety centrifugal. J. O. Johnson. No. 998,906; July 25; Sp. p. 5056; Gaz. vol. 168; p. 907.
Valve safety device. L. Friedrichs. No. 996,013; June 20; Sp. p. 4167; Gaz. vol. 167; p. 725.
Valve-seat, Detachable. E. O. Berg. No. 984,062; Feb. 14; Sp. p. 1770; Gaz. vol. 163; p. 304.
Valve-seating machine. J. F. Higbee. No. 983,228; Jan. 31; Sp. p. 6664; Gaz. vol. 162; p. 1158.
Valve-seating tool. L. A. Cornelius. No. 1,007,068; Oct. 31; Sp. p. 5540; Gaz. vol. 171; p. 1020.
Valve, Self-closing. H. C. Montgomery. No. 981,787; Jan. 17; Sp. p. 3585; Gaz. vol. 162; p. 608.
Valve, Self-grinding. E. W. Hoyt. No. 981,087; Jan. 10; Sp. p. 2085; Gaz. vol. 162; p. 344.
Valve, Self-lubricating air-. C. Senn. No. 1,006,691; Oct. 24; Sp. p. 4697; Gaz. vol. 171; p. 836.
Valve, Shut-off. S. A. Ross. No. 995,485; June 20; Sp. p. 3032; Gaz. vol. 167; p. 540.
Valve-silencer. P. A. Isenberg. No. 997,296; July 11; Sp. p. 1481; Gaz. vol. 168; p. 270.
Valve-spring-compressing device. C. L. Hahn. No. 995,595; June 20; Sp. p. 3290; Gaz. vol. 167; p. 579.
Valve-spring-lifting device. O. Wisenant. No. 1,012,311; Dec. 19; Sp. p. 4298; Gaz. vol. 173; p. 737.
Valve-starter alarm. J. A. Poché. No. 992,139; May 9; Sp. p. 2754; Gaz. vol. 166; p. 487.
Valve, Steam-actuated. G. J. O. D. Dikkers. No. 993,293; May 23; Sp. p. 5260; Gaz. vol. 166; p. 944.
Valve, Steam, air, and water trap-. J. E. Boegen. No. 986,797; Mar. 14; Sp. p. 2201; Gaz. vol. 164; p. 383.

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Valve-stems, Fluid-tight joint for rotary. J. E. Willcox. No. 1,008,398; Nov. 14; Sp. p. 1728; Gaz. vol. 172; p. 303.
Valve, Sucker-. J. D. Benson. No. 999,737; Aug. 8; Sp. p. 1082; Gaz. vol. 169; p. 215.
Valve, Switch-. H. Moeller, E. Kieweg, and F. Wagner. No. 989,175; Apr. 11; Sp. p. 1856; Gaz. vol. 165; p. 322.
Valve, Tank-. F. B. Charroin. No. 990,337; Apr. 25; Sp. p. 4414; Gaz. vol. 165; p. 781.
Valve, Thermostatic. F. W. Robertshaw. No. 986,760; Mar. 14; Sp. p. 2135; Gaz. vol. 164; p. 371.
Valve, Thermostatic. F. W. Robertshaw. No. 998,262; July 18; Sp. p. 3604; Gaz. vol. 168; p. 646.
Valve, Throttle-. W. J. Lilly. No. 986,184; Mar. 7; Sp. p. 895; Gaz. vol. 164; p. 145.
Valve, Throttle-. C. Roesener. No. 1,002,085; Aug. 29; Sp. p. 6160; Gaz. vol. 169; p. 1114.
Valve, Throttle-. D. S. Waugh. No. 1,006,514; Oct. 24; Sp. p. 4315; Gaz. vol. 171; p. 774.
Valve, Tire-. F. B. Carlisle. No. 991,949; May 9; Sp. p. 2386; Gaz. vol. 166; p. 424.
Valve, Train-line-venting. F. A. Pierce. No. 983,643; Feb. 7; Sp. p. 829; Gaz. vol. 163; p. 132.
Valve, Train-pipe release-. W. V. Turner. No. 1,011,529; Dec. 12; Sp. p. 2545; Gaz. vol. 173; p. 431.
Valve, Water-. J. P. Reinecke. No. 993,106; May 23; Sp. p. 4893; Gaz. vol. 166; p. 887.
Valve, whistle, and safety alarm-valve, Combined muffler-cut-out. H. G. Weaver. No. 1,004,833; Oct. 3; Sp. p. 614; Gaz. vol. 171; p. 101.
Valves, Device for automatically opening and closing. G. Dalén. No. 1,011,755; Dec. 12; Sp. p. 3048; Gaz. vol. 173; p. 509.
Valves, fire-plugs, and the like, Box for street-. E. Prendergast. No. 1,012,432; Dec. 19; Sp. p. 4532; Gaz. vol. 173; p. 776.
Valves, fire-plugs, meters, &c., Truncated box for street-. E. Prendergast. No. 1,012,433; Dec. 19; Sp. p. 4534; Gaz. vol. 173; p. 776.
Valves from a distance, System for opening and closing. E. Renkewitz. No. 980,334; Jan. 3; Sp. p. 304; Gaz. vol. 162; p. 55.
Valves, Mechanical movement for engine-. J. S. Shields and W. Lamb. No. 1,005,897; Oct. 17; Sp. p. 2906; Gaz. vol. 171; p. 527.
Valves of gas-engines, &c., Device for truing up the. A. C. Sargent. No. 983,571; Feb. 7; Sp. p. 693; Gaz. vol. 163; p. 107.
Valves, Silencer for intake-. W. S. Harley. No. 1,001,846; Aug. 29; Sp. p. 5656; Gaz. vol. 169; p. 1035.
Valves, Spring-holding device for. W. H. Shimpf. No. 982,539; Jan. 24; Sp. p. 5215; Gaz. vol. 162; p. 900.
Valves, Valve-cage for oscillating. T. Hall. No. 1,006,748; Oct. 24; Sp. p. 4813; Gaz. vol. 171; p. 856.
Vamp-creaser. J. H. Reed. No. 996,138; June 27; Sp. p. 4436; Gaz. vol. 167; p. 803.
Vamp-marker. J. F. Rogers. No. 991,892; May 9; Sp. p. 2268; Gaz. vol. 166; p. 405.
Vanadium from its ores, Extracting. G. A. Koenig. No. 986,180; Mar. 7; Sp. p. 888; Gaz. vol. 164; p. 143.
Vanilla extract, Making. J. K. Gowen. No. 1,010,043; Nov. 28; Sp. p. 5303; Gaz. vol. 172; p. 950.
Vapor-bath. J. B. Pinard, J. Cassidy, and R. M. Mellor. No. 1,007,603; Oct. 31; Sp. p. 6711; Gaz. vol. 171; p. 1208.
Vapor-burner. J. M. L. Fleming. No. 984,657; Feb. 21; Sp. p. 3060; Gaz. vol. 163; p. 542.
Vapor-burner. H. C. Wright. No. 990,327; Apr. 25; Sp. p. 4393; Gaz. vol. 165; p. 777.
Vapor-burner. H. C. Wright. No. 990,692; Apr. 25; Sp. p. 5237; Gaz. vol. 165; p. 904.
Vapor-burner. H. C. Wright. No. 994,436; June 6; Sp. p. 695; Gaz. vol. 167; p. 119.
Vapor-burner. B. Appel and S. S. Goldman. No. 995,107; June 13; Sp. p. 2213; Gaz. vol. 167; p. 385.
Vapor-burner. M. A. Galvao. No. 999,712; Aug. 1; Sp. p. 1014; Gaz. vol. 169; p. 176.
Vapor-burner. J.-B. V. L. Harlé. No. 1,003,601; Sept. 19; Sp. p. 3089; Gaz. vol. 170; p. 557.
Vapor-burner. E. R. Huber. No. 1,005,431; Oct. 10; Sp. p. 1878; Gaz. vol. 171; p. 332.
Vapor-burner. W. A. Hare. No. 1,005,965; Oct. 17; Sp. p. 3074; Gaz. vol. 171; p. 552.
Vapor-condenser. G. M. Hilger. No. 980,637; Jan. 3; Sp. p. 977; Gaz. vol. 162; p. 160.
Vapor-converter. P. C. Hewitt. No. 1,007,694; Nov. 7; Sp. p. 89; Gaz. vol. 172; p. 14.
Vapor-converter and controlling device therefor. P. H. Thomas. No. 1,004,106; Sept. 26; Sp. p. 4261; Gaz. vol. 170; p. 759.
Vapor-converters in series, Means for starting. P. H. Thomas. No. 984,248; Feb. 14; Sp. p. 2166; Gaz. vol. 163; p. 367.
Vapor device, Mercury-. E. Thomson. No. 1,006,805; Oct. 24; Sp. p. 4952; Gaz. vol. 171; p. 877.
Vapor-diffusing device. H. W. Forbes and F. Linick. No. 1,007,026; Oct. 24; Sp. p. 5429; Gaz. vol. 171; p. 951.
Vapor-electric-device-operating means. P. H. Thomas. No. 981,229; Jan. 10; Sp. p. 2439; Gaz. vol. 162; p. 395.
Vapor-engine. J. Timmins. No. 982,449; Jan. 24; Sp. p. 5037; Gaz. vol. 162; p. 869.
Vapor, Generating high-temperature. E. Thomson. No. 997,940; July 11; Sp. p. 2874; Gaz. vol. 168; p. 491.
Vapor or gas generating apparatus. W. N. Norwood. No. 986,202; Mar. 7; Sp. p. 927; Gaz. vol. 164; p. 150.
Vapor-rectifier system. C. P. Steinmetz. No. 993,899; May 30; Sp. p. 6576; Gaz. vol. 166; p. 1185.
Vapor-rectifier system. C. M. Green. No. 996,848; July 4; Sp. p. 510; Gaz. vol. 168; p. 84.
Vapor-rectifier system. S. Ferguson. No. 1,009,494; Nov. 21; Sp. p. 4187; Gaz. vol. 172; p. 721.
Vapors, Apparatus for treating arsenical. I. F. Peck. No. 996,516; June 27; Sp. p. 5305; Gaz. vol. 167; p. 930.
Vapors from air, &c., Apparatus for recovering solvent. A. Collard. No. 1,003,089; Sept. 12; Sp. p. 2004; Gaz. vol. 170; p. 345.
Vaporizer. C. C. Riotte. No. 1,006,130; Oct. 17; Sp. p. 3426; Gaz. vol. 171; p. 609.
Vaporizer. J. N. M. Wilson. No. 1,009,816; Nov. 28; Sp. p. 4836; Gaz. vol. 172; p. 874.
Vaporizer and separator. C. A. Rush. No. 992,260; May 16; Sp. p. 3076; Gaz. vol. 166; p. 560.
Varnish and impregnation and insulation substance and its production. G. G. Diesser. No. 981,178; Jan. 10; Sp. p. 2282; Gaz. vol. 162; p. 377.
Varnish-can. W. R. Masher. No. 1,008,856; Nov. 14; Sp. p. 2748; Gaz. vol. 172; p. 463.
Varnishes, Manufacture of. E. H. Strange. No. 1,011,659; Dec. 12; Sp. p. 2868; Gaz. vol. 173; p. 479.
Varnished articles, Apparatus for drying. E. Rosenberg. No. 992,991; May 23; Sp. p. 4639; Gaz. vol. 166; p. 847.
Vase, Fly-. A. Lilge. No. 983,977; Feb. 14; Sp. p. 1581; Gaz. vol. 163; p. 275.
Vat: *See* Dyeing-vat; Pulp-straining vat; Store-vat.
Vat-washing-machine ring. H. Hipp. No. 986,712; Mar. 14; Sp. p. 2025; Gaz. vol. 164; p. 355.
Vaudeville apparatus. J. E. Nicholson. No. 984,019; Feb. 14; Sp. p. 1675; Gaz. vol. 163; p. 289.
Vault. W. H. Hollar. No. 1,007,568; Oct. 31; Sp. p. 6635; Gaz. vol. 171; p. 1196.
Vault and receptacle, Burial. J. T. Bond. No. 989,482; Apr. 11; Sp. p. 2508; Gaz. vol. 165; p. 425.
Vault, Burial-. J. W. Pepple. No. 980,670; Jan. 3; Sp. p. 1078; Gaz. vol. 162; p. 171.
Vault, Burial-. J. Bermel. No. 983,804; Feb. 7; Sp. p. 1166; Gaz. vol. 163; p. 187.
Vault, Burial-. G. W. Bellis. No 995,519; June 20; Sp. p. 3104; Gaz. vol. 167; p. 552.
Vault, Burial-. J. F. W. Fawcett. No. 997,548; July 11; Sp. p. 1965; Gaz. vol. 168; p. 351.
Vault-cover. H. Döring. No. 991,836; May 9; Sp. p. 2163; Gaz. vol. 166; p. 385.
Vault-door. J. R. Flood. No. 1,010,246; Nov. 28; Sp. p. 5699; Gaz. vol. 172; p. 1019.
Vault, Grave-. S. C. Baughn. No. 994,299; June 6; Sp. p. 404; Gaz. vol. 167; p. 69.
Vault-light. K. E. Lundin. No. 985,357; Feb. 28; Sp. p. 4545; Gaz. vol. 163; p. 816.
Vault-light. H. Held. No. 1,007,352; Oct. 31; Sp. p. 6154; Gaz. vol. 171; p. 1122.
Vault, Metallic grave-. J. E. Myers. No. 998,030; July 18; Sp. p. 3101; Gaz. vol. 168; p. 564.
Vault, Safe-deposit. J. W. Cooper. No. 1,003,878; Sept. 19; Sp. p. 3666; Gaz. vol. 170; p. 652.
Vaults, Mold for making burial-. C. K. Haw. No. 987,134; Mar. 21; Sp. p. 2872; Gaz. vol. 164; p. 528.
Vaults, Molding-bars for. J. G. Giesting. No. 985,796; Mar. 7; Sp. p. 59; Gaz. vol. 164; p. 13.
Vegetable crusher and strainer. S. Abitbol and M. H. Tablas. No. 1,001,235; Aug. 22; Sp. p. 4385; Gaz. vol. 169; p. 797.
Vegetable-cutter. H. E. Ramseyer. No. 990,063; Apr. 18; Sp. p. 3786; Gaz. vol. 165; p. 655.
Vegetable-cutter. L. W. Veitch. No. 1,003,674; Sept. 19; Sp. p. 3237; Gaz. vol. 170; p. 584.
Vegetable extracts, Preparing desiccated. P. Kestner. No. 1,005,554; Oct. 10; Sp. p. 2145; Gaz. vol. 171; p. 376.
Vegetable-masher. E. S. Savage. No. 990,393; Apr. 25; Sp. p. 4546; Gaz. vol. 165; p. 802.
Vegetable matter, Treating fresh. W. von Skorzewski. No. 1,003,525; Sept. 19; Sp. p. 2906; Gaz. vol. 170; p. 531.
Vegetable or meat press. A. E. Yaeger. No. 1,007,907; Nov. 7; Sp. p. 592; Gaz. vol. 172; p. 91.
Vegetable scraper or peeler. E. W. Milbado. No. 990,449; Apr. 25; Sp. p. 4681; Gaz. vol. 165; p. 823.
Vehicle. A. Waddell. No. 982,320; Jan. 24; Sp. p. 4750; Gaz. vol. 162; p. 821.
Vehicle. R. W. Wagner. No. 982,451; Jan. 24; Sp. p. 5045; Gaz. vol. 162; p. 870.
Vehicle. F. Kleinvogel. No. 984,516; Feb. 14; Sp. p. 2726; Gaz. vol. 163; p. 457.
Vehicle. J. C. and J. J. Raum. No. 985,633; Feb. 28; Sp. p. 5155; Gaz. vol. 163; p. 911.
Vehicle. A. E. Long. No. 987,895; Mar. 28; Sp. p. 4539; Gaz. vol. 164; p. 819.
Vehicle. C. Escalante and J. P. Sirgado. No. 988,181; Mar. 28; Sp. p. 5155; Gaz. vol. 164; p. 914.

Vehicle. A. E. Schultz. No. 989,652; Apr. 18; Sp. p. 2920; Gaz. vol. 165; p. 515.
Vehicle. J. Jennings. No. 990,440; Apr. 25; Sp. p. 4664; Gaz. vol. 165; p. 819.
Vehicle. J. M. Foy. No. 992,183; May 16; Sp. p. 2867; Gaz. vol. 166; p. 534.
Vehicle. C. A. Carman. No. 992,754; May 23; Sp. p. 4118; Gaz. vol. 166; p. 762.
Vehicle. J. Repetto. No. 993,796; May 30; Sp. p. 6383; Gaz. vol. 166; p. 1151.
Vehicle. A. A. Mutschler. No. 1,000,621; Aug. 15; Sp. p. 3047; Gaz. vol. 169; p. 554.
Vehicle. C. Nelson. No. 1,003,644; Sept. 19; Sp. p. 3176; Gaz. vol. 170; p. 572.
Vehicle. C. H. Meyer. No. 1,005,450; Oct. 10; Sp. p. 1918; Gaz. vol. 171; p. 339.
Vehicle. J. E. Grace. No. 1,008,713; Nov. 14; Sp. p. 2450; Gaz. vol. 172; p. 414.
Vehicle assembly-stand. H. E. Coffin. No. 1,001,619; Aug. 29; Sp. p. 5163; Gaz. vol. 169; p. 957.
Vehicle attachment. C. M. Culbertson. No. 996,749; July 4; Sp. p. 297; Gaz. vol. 168; p. 52.
Vehicle-body. A. K. Ball. No. 994,051; May 30; Sp. p. 6886; Gaz. vol. 166; p. 1237.
Vehicle-body. T. H. Parry and W. J. Byers. No. 997,508; July 11; Sp. p. 1883; Gaz. vol. 168; p. 339.
Vehicle-body, Combination convertible. W. I. Twombly. No. 992,298; May 16; Sp. p. 3150; Gaz. vol. 166; p. 574.
Vehicle body-lifting device. G. W. Pine. No. 1,012,703; Dec. 26; Sp. p. 5109; Gaz. vol. 173; p. 916.
Vehicle body structure. S. G. McDowell. No. 995,884; June 20; Sp. p. 3917; Gaz. vol. 167; p. 680.
Vehicle-box, Adjustable. F. D. Sieman. No. 987,328; Mar. 21; Sp. p. 3321; Gaz. vol. 164; p. 596.
Vehicle-brake. W. Siverd. No. 985,298; Feb. 28; Sp. p. 4426; Gaz. vol. 163; p. 797.
Vehicle-brake. H. B. Lester. No. 989,617; Apr. 18; Sp. p. 2847; Gaz. vol. 165; p. 503.
Vehicle-brake. E. H. Carroll. No. 992,848; May 23; Sp. p. 4321; Gaz. vol. 166; p. 796.
Vehicle-brake. L. H. Goodwin. No. 995,344; June 13; Sp. p. 2704; Gaz. vol. 167; p. 463.
Vehicle-brake. J. A. McGrath. No. 996,871; July 4; Sp. p. 564; Gaz. vol. 168; p. 92.
Vehicle-brake. T. A. Coleman. No. 997,273; July 11; Sp. p. 1423; Gaz. vol. 168; p. 262.
Vehicle-brake. C. E. Brigel. No. 997,959; July 18; Sp. p. 2936; Gaz. vol. 168; p. 539.
Vehicle-brake. D. F., J. E., J. A., and W. H. Bunch. No. 998,671; July 25; Sp. p. 4512; Gaz. vol. 168; p. 823.
Vehicle-brake. D. W. Evans. No. 999,554; Aug. 1; Sp. p. 717; Gaz. vol. 169; p. 123.
Vehicle-brake. J. C. Turnbull and B. J. Hatlay. No. 999,919; Aug. 8; Sp. p. 1457; Gaz. vol. 169; p. 276.
Vehicle-brake. J. O'Connor, Jr. No. 1,000,113; Aug. 8; Sp. p. 1904; Gaz. vol. 169; p. 344.
Vehicle-brake. J. D. Jarrett. No. 1,001,527; Aug. 22; Sp. p. 4956; Gaz. vol. 169; p. 895.
Vehicle-brake. W. E. Woods. No. 1,003,569; Sept. 19; Sp. p. 3027; Gaz. vol. 170; p. 546.
Vehicle-brake. S. R. Burnett. No. 1,008,782; Nov. 14; Sp. p. 2611; Gaz. vol. 172; p. 438.
Vehicle-brake. J. A. McGrath. No. 1,009,081; Nov. 21; Sp. p. 3247; Gaz. vol. 172; p. 574.
Vehicle-brake. A. A. De Mars. No. 1,009,651; Nov. 21; Sp. p. 4470; Gaz. vol. 172; p. 770.
Vehicle-brake. H. L. Keckley. No. 1,009,711; Nov. 21; Sp. p. 4591; Gaz. vol. 172; p. 791.
Vehicle-brake, Automatic. J. N. Lawrence. No. 983,294; Feb. 7; Sp. p. 75; Gaz. vol. 163; p. 15.
Vehicle-brake, Automatic. E. G. Uhl. No. 988,676; Apr. 4; Sp. p. 826; Gaz. vol. 165; p. 133.
Vehicle-brake, Automatic. J. D. Ellison. No. 1,003,174; Sept. 12; Sp. p. 2183; Gaz. vol. 170; p. 374.
Vehicle-brake for use on hay-racks. L. Brown. No. 1,006,058; Oct. 17; Sp. p. 3257; Gaz. vol. 171; p. 583.
Vehicle brake, Road-. J. J. O'Doherty. No. 998,979; July 25; Sp. p. 5235; Gaz. vol. 168; p. 932.
Vehicle braking system. W. Cooper. No. 1,003,035; Sept. 12; Sp. p. 1888; Gaz. vol. 170; p. 326.
Vehicle braking system. J. N. Mahoney. No. 1,005,252; Oct. 10; Sp. p. 1475; Gaz. vol. 171; p. 268.
Vehicle-bumper. C. P. Brown and J. L. Uhlik. No. 996,207; June 27; Sp. p. 4634; Gaz. vol. 167; p. 827.
Vehicle canopy-support. J. Reid. No. 988,814; Apr. 4; Sp. p. 1120; Gaz. vol. 165; p. 178.
Vehicle chain-drive. H. Helms. No. 1,008,330; Nov. 14; Sp. p. 1525; Gaz. vol. 172; p. 279.
Vehicle, Child's. M. Pettit and L. S. Roll. (Reissue.) No. 13,326; Nov. 28; Sp. p. 6054; Gaz. vol. 172; p. 1074.
Vehicle-closure, Removable. H. Kretz. No. 981,771; Jan. 17; Sp. p. 3552; Gaz. vol. 162; p. 603.
Vehicle compensating mechanism, Motor-. J. F. Rogers. No. 1,002,870; Sept. 12; Sp. p. 1547; Gaz. vol. 170; p. 269.
Vehicle control-levers, Locking device for motor-. E. P. Ashton. No. 986,537; Mar. 14; Sp. p. 1655; Gaz. vol. 164; p. 294.
Vehicle controlling mechanism, Motor-. C. Schmidt. No. 994,428; June 6; Sp. p. 681; Gaz. vol. 167; p. 116.
Vehicle cooling apparatus, Motor-. P. Daimler. No. 998,876; July 25; Sp. p. 4993; Gaz. vol. 168; p. 896.
Vehicle curtain-support. C. C. Blackmore. No. 985,105; Feb. 21; Sp. p. 3937; Gaz. vol. 163; p. 696.
Vehicle cushioning device. P. West. No. 988,417; Apr. 4; Sp. p. 275; Gaz. vol. 165; p. 44
Vehicle cushioning device. P. E. Barker. No. 993,287; May 23; Sp. p. 5245; Gaz. vol. 166; p. 941.
Vehicle-door. W. H. Jordan. No. 999,370; Aug. 1; Sp. p. 353; Gaz. vol. 169; p. 62.
Vehicle door handle and lock, Combined. L. W. Gates. No. 990,541; Apr. 25; Sp. p. 4899; Gaz. vol. 165; p. 854.
Vehicle driving and steering device. E. A. Gotterba. No. 989,501; Apr. 11; Sp. p. 2547; Gaz. vol. 165; p. 431.
Vehicle driving and steering gear, Self-propelled-. J. C. Van Orsdel. No. 998,725; July 25; Sp. p. 4640; Gaz. vol. 168; p. 842.
Vehicle driving and steering mechanism, Motor-. W. H. Douglas. No. 1,011,591; Dec. 12; Sp. p. 2713; Gaz. vol. 173; p. 455.
Vehicle driving-gear. C. E. Patton. No. 997,636; July 11; Sp. p. 2166; Gaz. vol. 168; p. 384.
Vehicle driving-gear, Motor-. C. Adelhelm and R. Keck. No. 983,417; Feb. 7; Sp. p. 334; Gaz. vol. 163; p. 56.
Vehicle driving-gear, Motor-. H. E. Lever. No. 992,967; May 23; Sp. p. 4597; Gaz. vol. 166; p. 838.
Vehicle driving mechanism. F. G. Gauntt. No. 1,003,135; Sept. 12; Sp. p. 2094; Gaz. vol. 170; p. 360.
Vehicle driving mechanism, Motor-. J. Eckhard. No. 1,011,174; Dec. 12; Sp. p. 1748; Gaz. vol. 173; p. 305.
Vehicle dump-bed. D. W. Carr. No. 980,922; Jan. 10; Sp. p. 1655; Gaz. vol. 162; p. 286.
Vehicle, Dumping-. C. O. Pape. No. 980,556; Jan. 3; Sp. p. 828; Gaz. vol. 162; p. 133.
Vehicle, Electrically-propelled. R. Siegfried. No. 993,559; May 30; Sp. p. 5861; Gaz. vol. 166; p. 1068.
Vehicle, Explosion-engine-driven. H. P. Hall. No. 1,004,164; Sept. 26; Sp. p. 4402; Gaz. vol. 170; p. 779.
Vehicle fender, Motor-. R. N. Harris. No. 981,260; Jan. 10; Sp. p. 2499; Gaz. vol. 162; p. 406.
Vehicle fender, Motor-. E. K. Conover. No. 1,000,668; Aug. 15; Sp. p. 3143; Gaz. vol. 169; p. 569.
Vehicle fender, Self-propelled-. G. Sparmo. No. 1,011,873; Dec. 12; Sp. p. 3299; Gaz. vol. 173; p. 548.
Vehicle folding top. T. Golde. No. 1,012,352; Dec. 19; Sp. p. 4387; Gaz. vol. 173; p. 751.
Vehicle-frame. J. H. Hand. No. 1,010,138; Nov. 28; Sp. p. 5488; Gaz. vol. 172; p. 983.
Vehicle frames and bodies, Device for resiliently supporting. J. T. Lister. No. 993,849; May 30; Sp. p. 6491; Gaz. vol. 166; p. 1169.
Vehicle gravity-feed emergency device, Motor-. E. C. Smith. No. 1,009,193; Nov. 21; Sp. p. 3471; Gaz. vol. 172; p. 613.
Vehicle hanger-strap. F. R. Batchelder. No. 992,398; May 16; Sp. p. 3383; Gaz. vol. 166; p. 609.
Vehicle illuminating device. S. Suits. No. 994,695; June 6; Sp. p. 1264; Gaz. vol. 167; p. 205.
Vehicle indicating device. H. J. Suelzen. No. 997,161; July 4; Sp. p. 1191; Gaz. vol. 168; p. 193.
Vehicle-jack. J. R. Tyson. No. 1,003,164; Sept. 12; Sp. p. 2153; Gaz. vol. 170; p. 370.
Vehicle levers, Lock for motor-. R. G. Handy. No. 993,364; May 30; Sp. p. 5441; Gaz. vol. 166; p. 1002.
Vehicle-lock. M. T. Baird. No. 981,907; Jan. 17; Sp. p. 3872; Gaz. vol. 162; p. 651.
Vehicle-lock. A. J. Borst, Jr. No. 993,499; May 30; Sp. p. 5731; Gaz. vol. 166; p. 1047.
Vehicle, Motor-. L. S. Clarke. No. 980,603; Jan. 3; Sp. p. 922; Gaz. vol. 162; p. 149.
Vehicle, Motor-. J. D. Allen and J. A. Conly. No. 983,107; Jan. 31; Sp. p. 6435; Gaz. vol. 162; p. 1118.
Vehicle, Motor-. W. Denton. No. 987,119; Mar. 21; Sp. p. 2833; Gaz. vol. 164; p. 522.
Vehicle, Motor-. E. Gruenfeldt. No. 987,358; Mar. 21; Sp. p. 3375; Gaz. vol. 164; p. 606.
Vehicle, Motor-. F. E. Lake. No. 989,615; Apr. 18; Sp. p. 2842; Gaz. vol. 165; p. 503.
Vehicle, Motor-. H. S. Baldwin. No. 992,472; May 16; Sp. p. 3535; Gaz. vol. 166; p. 635.
Vehicle, Motor-. D. J. McOsker. No. 1,000,743; Aug. 15; Sp. p. 3292; Gaz. vol. 169; p. 595.
Vehicle, Motor-. S. Stewart. No. 1,000,853; Aug. 15; Sp. p. 3525; Gaz. vol. 169; p. 634.
Vehicle, Motor-. R. Fuller. No. 1,001,837; Aug. 29; Sp. p. 5639; Gaz. vol. 169; p. 1032.
Vehicle, Motor-. R. Huff. No. 1,002,848; Sept. 12; Sp. p. 1480; Gaz. vol. 170; p. 262.
Vehicle, Motor-. R. Huff. No. 1,003,963; Sept. 19; Sp. p. 3886; Gaz. vol. 170; p. 682.
Vehicle, Motor-. S. and A. E. Phillips. No. 1,005,068; Oct. 3; Sp. p. 1074; Gaz. vol. 171; p. 180.
Vehicle, Motor-. P. L. Hussey. No. 1,009,841; Nov. 28; Sp. p. 4887; Gaz. vol. 172; p. 882.
Vehicle, Motor-. H. Ford. 1,012,620; Dec. 26; Sp. p. 4929; Gaz. vol. 173; p. 886.
Vehicle, Motor-. S. B. Gray. No. 1,012,841; Dec. 26; Sp. p. 5434; Gaz. vol. 173; p. 964.
Vehicle, Motor-. S. B. Gray. No. 1,012,842; Dec. 26; Sp. p. 5442; Gaz. vol. 173; p. 964.

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Vehicle-motor. C. A. Psilander. No. 993,619; May 30; Sp. p. 5992; Gaz. vol. 166; p. 1090.
Vehicle, Motor-driven. J. B. Heverling. No. 1,011,431; Dec. 12; Sp. p. 2308; Gaz. vol. 173; p. 395.
Vehicle, Motor-propelled and other. N. H. Sooy. No. 1,008,212; Nov. 7; Sp. p. 1211; Gaz. vol. 172; p. 198.
Vehicle movement-detector. C. J. Coleman. No. 1,010,725; Dec. 5; Sp. p. 721; Gaz. vol. 173; p. 114.
Vehicle mud-cleaner. Z. G. Leigh. No. 983,502; Feb. 7; Sp. p. 528; Gaz. vol. 163; p. 84.
Vehicle platform-gear. J. Errett. No. 984,895; Feb. 21; Sp. p. 3537; Gaz. vol. 163; p. 625.
Vehicle resilient wheel. C. G. Capwell. No. 1,007,333; Oct. 31; Sp. p. 6119; Gaz. vol. 171; p. 1116.
Vehicle-rim, Demountable. C. B. Lastreto. No. 988,722; Apr. 4; Sp. p. 936; Gaz. vol. 165; p. 148.
Vehicle-runner. W. G. Bowers and S. B. Gardner. No. 1,005,683; Oct. 10; Sp. p. 2456; Gaz. vol. 171; p. 421.
Vehicle running-gear. A. A. Merrill. No. 981,583; Jan. 10; Sp. p. 3167; Gaz. vol. 162; p. 516.
Vehicle running-gear. A. de Dion and G. Bouton. No. 991,051; May 2; Sp. p. 460; Gaz. vol. 166; p. 80.
Vehicle running-gear. A. R. Selden. No. 1,008,373; Nov. 14; Sp. p. 1647; Gaz. vol. 172; p. 294.
Vehicle running-gear. I. E. Palmer. No. 1,008,612; Nov. 14; Sp. p. 2235; Gaz. vol. 172; p. 380.
Vehicle running-gear. I. E. Palmer. No. 1,009,336; Nov. 21; Sp. p. 3819; Gaz. vol. 172; p. 665.
Vehicle running-gear, Motor-. D. M. Dearing. No. 1,005,170; Oct. 10; Sp. p. 1275; Gaz. vol. 171; p. 238.
Vehicle running-gear, Motor-. D. M. Dearing. No. 1,005,171; Oct. 10; Sp. p. 1277; Gaz. vol. 171; p. 238.
Vehicle safety device. J. B. Strauss. No. 988,520; Apr. 4; Sp. p. 494; Gaz. vol. 165; p. 79.
Vehicle safety-signal. G. F. Buente and H. C. Fling. No. 1,007,671; Nov. 7; Sp. p. 21; Gaz. vol. 172; p. 7.
Vehicle-seat and lock therefor. W. Miller. No. 1,007,041; Oct. 24; Sp. p. 5459; Gaz. vol. 171; p. 956.
Vehicle-seat spring-supports, Extension-standard for. P. H. Schwartz. No. 1,005,893; Oct. 17; Sp. p. 2901; Gaz. vol. 171; p. 526.
Vehicle, Self-propelled. A. Liwentaal. No. 987,728; Mar. 28; Sp. p. 4166; Gaz. vol. 164; p. 761.
Vehicle, Self-propelled. C. J. Hautier. No. 992,661; May 16; Sp. p. 3922; Gaz. vol. 166; p. 669.
Vehicle shock-absorber. C. A. Garvey. No. 991,437; May 2; Sp. p. 1298; Gaz. vol. 166; p. 216.
Vehicle shock-absorber. H. Terhorst. No. 994,546; June 6; Sp. p. 926; Gaz. vol. 167; p. 153.
Vehicle shock-absorber. D. E. Bennett. No. 995,995; June 20; Sp. p. 4132; Gaz. vol. 167; p. 719.
Vehicle shock-absorber. J. B. Burroughs. No. 1,007,917; Nov. 7; Sp. p. 619; Gaz. vol. 172; p. 95.
Vehicle shock-absorber. H. S. Bergen. No. 1,011,311; Dec. 12; Sp. p. 2067; Gaz. vol. 173; p. 353.
Vehicle shock-absorber, Motor-. A. Loomis. No. 982,282; Jan. 24; Sp. p. 4678; Gaz. vol. 162; p. 809.
Vehicle shock-absorbing apparatus. C. H. Cox. No. 992,708; May 16; Sp. p. 4010; Gaz. vol. 166; p. 716.
Vehicle-signal. L. O'Brien. No. 1,001,881; Aug. 29; Sp. p. 5743; Gaz. vol. 169; p. 1048.
Vehicle signal device. C. S. Moore. No. 992,795; May 23; Sp. p. 4199; Gaz. vol. 166; p. 776.
Vehicle sleigh attachment. H. L. Jones. No. 1,002,916; Sept. 12; Sp. p. 1660; Gaz. vol. 170; p. 287.
Vehicle sleigh attachment. A. Hofacker. No. 1,005,215; Oct. 10; Sp. p. 1379; Gaz. vol. 171; p. 254.
Vehicle speed-controller, Motor-. B. F. Lord, Jr. No. 1,009,675; Nov. 21; Sp. p. 4519; Gaz. vol. 172; p. 778.
Vehicle-spindle. J. C. Hoover. No. 991,991; May 9; Sp. p. 2466; Gaz. vol. 166; p. 438.
Vehicle spindle, Wheeled-. J. D. Aton. No. 983,855; Feb. 7; Sp. p. 1283; Gaz. vol. 163; p. 205.
Vehicle-spring. M. Tulbovitch. No. 983,097; Jan. 31; Sp. p. 6415; Gaz. vol. 162; p. 1115.
Vehicle-spring. L. Hayes. No. 986,169; Mar. 7; Sp. p. 859; Gaz. vol. 164; p. 139.
Vehicle-spring. C. Escalante and J. P. Sirgado. No. 986,969; Mar. 14; Sp. p. 2554; Gaz. vol. 164; p. 442.
Vehicle-spring. A. R. Selden. No. 987,833; Mar. 28; Sp. p. 4380; Gaz. vol. 164; p. 797.
Vehicle-spring. M. M. McIntyre. No. 991,000; May 2; Sp. p. 362; Gaz. vol. 166; p. 63.
Vehicle-spring. W. Friedrichsen. No. 993,236; May 23; Sp. p. 5150; Gaz. vol. 166; p. 926.
Vehicle-spring. A. L. Snow. No. 997,470; July 11; Sp. p. 1803; Gaz. vol. 168; p. 326.
Vehicle-spring. R. M. McGahee. No. 999,826; Aug. 8; Sp. p. 1248; Gaz. vol. 169; p. 244.
Vehicle-spring. A. R. Graves. No. 1,002,055; Aug. 29; Sp. p. 6109; Gaz. vol. 169; p. 1104.
Vehicle-spring. W. E. Eastman. No. 1,002,830; Sept. 12; Sp. p. 1434; Gaz. vol. 170; p. 253.
Vehicle-spring. J. A. Perry. No. 1,006,872; Oct. 24; Sp. p. 5111; Gaz. vol. 171; p. 901.
Vehicle-spring. C. M. Leech. No. 1,007,120; Oct. 31; Sp. p. 5657; Gaz. vol. 171; p. 1039.
Vehicle-spring. F. J. Nice. No. 1,007,479; Oct. 31; Sp. p. 6418; Gaz. vol. 171; p. 1166.
Vehicle-spring. L. Mayer. No. 1,008,422; Nov. 14; Sp. p. 1787; Gaz. vol. 172; p. 311.
Vehicle spring-gear. W. L. Manning. No. 992,569; May 16; Sp. p. 3743; Gaz. vol. 166; p. 270.
Vehicle spring-mounting. G. W. Morris. No. 996,997; July 4; Sp. p. 858; Gaz. vol. 168; p. 137.
Vehicle-spring, Pneumatic. F. W. Mills. No. 991,165; May 2; Sp. p. 720; Gaz. vol. 166; p. 122.
Vehicle-spring, Shock-absorbing. E. H. Johnson. No. 993,379; May 30; Sp. p. 5470; Gaz. vol. 166; p. 1007.
Vehicle spring suspension. W. E. Eastman. No. 1,007,077; Oct. 31; Sp. p. 5558; Gaz. vol. 171; p. 1023.
Vehicle spring suspension, Motor-. E. A. Nelson. No. 1,005,284; Oct. 10; Sp. p. 1555; Gaz. vol. 171; p. 280.
Vehicle, Steam motor-. L. Doillet and P. R. Faure. No. 997,654; July 11; Sp. p. 2210; Gaz. vol. 168; p. 391.
Vehicle steering and controlling mechanism, Motor-. G. F. Smith. No. 1,010,082; Nov. 28; Sp. p. 5380; Gaz. vol. 172; p. 964.
Vehicle steering device. F. E. Morey. No. 984,960; Feb. 21; Sp. p. 3662; Gaz. vol. 163; p. 646.
Vehicle steering-gear and control mechanism, Motor-. G. W. Dunham. No. 1,001,258; Aug. 22; Sp. p. 4422; Gaz. vol. 169; p. 804.
Vehicle steering mechanism, Power-driven-. F. Garver. No. 1,003,894; Sept. 19; Sp. p. 3690; Gaz. vol. 170; p. 657.
Vehicle steering mechanism, Self-propelled-. C. B. and C. B. Hatfield, Jr. No. 989,846; Apr. 18; Sp. p. 3341; Gaz. vol. 165; p. 582.
Vehicle steering-wheel, Auto-. W. O. Fest, Jr. No. 1,002,663; Sept. 5; Sp. p. 1065; Gaz. vol. 170; p. 160.
Vehicle-step. W. Lewis. No. 991,625; May 9, Sp. p. 1715; Gaz. vol. 166; p. 315.
Vehicle storm-apron. O. P. Fritchle. No. 995,450; June 20; Sp. p. 2955; Gaz. vol. 167; p. 527.
Vehicle storm-front. W. V. Deahl. No. 1,000,241; Aug. 8; Sp. p. 2171; Gaz. vol. 169; p. 387.
Vehicle storm-top. W. A. Hunter. (Reissue.) No. 13,235; May 9; Sp. p. 2757; Gaz. vol. 166; p. 488.
Vehicle suspension. J. K. Gardner. No. 980,508; Jan. 3; Sp. p. 727; Gaz. vol. 162; p. 117.
Vehicle suspension. W. S. Palmer. No. 988,500; Apr. 4; Sp. p. 442; Gaz. vol. 165; p. 72.
Vehicle suspension, Pneumatic. W. H. Shankland. No. 982,190; Jan. 17; Sp. p. 4452; Gaz. vol. 162; p. 746.
Vehicle suspension, Pneumatic. G. A. Murphy. No. 984,233; Feb. 14; Sp. p. 2140; Gaz. vol. 163; p. 362.
Vehicle-top. H. H. Christie. No. 981,168; Jan. 10; Sp. p. 2263; Gaz. vol. 162; p. 374.
Vehicle-top. A. M. Wingate. No. 1,007,168; Oct. 31; Sp. p. 5775; Gaz. vol. 171; p. 1056.
Vehicle-top. G. H. Smith. No. 1,009,999; Nov. 28; Sp. p. 5204; Gaz. vol. 172; p. 934.
Vehicle-top backstay-fastener. T. W. Pickard. No. 987,396; Mar. 21; Sp. p. 3467; Gaz. vol. 164; p. 620.
Vehicle-top bow-holder. S. T. Allen. No. 984,340; Feb. 14; Sp. p. 2361; Gaz. vol. 163; p. 399.
Vehicle-top bow-holder. S. T. Allen. No. 994,107; June 6; Sp. p. 6; Gaz. vol. 167; p. 4.
Vehicle-top bow-holder. C. L. Bair. No. 1,010,110; Nov. 28; Sp. p. 5433; Gaz. vol. 172; p. 974.
Vehicle-top bow-separator. A. Loomis. No. 994,852; June 13; Sp. p. 1668; Gaz. vol. 167; p. 299.
Vehicle top-fastener. W. Spickernagle. No. 1,010,968; Dec. 5; Sp. p. 1256; Gaz. vol. 173; p. 199.
Vehicle-top, Folding. J. H. Wooddell. No. 986,533; Mar. 14; Sp. p. 1648; Gaz. vol. 164; p. 293.
Vehicle-tractor. J. D. R. Lamson. No. 1,002,997; Sept. 12; Sp. p. 1813; Gaz. vol. 170; p. 314.
Vehicle, Under-water. S. Z. de Ferranti. No. 981,546; Jan. 10; Sp. p. 3093; Gaz. vol. 162; p. 504.
Vehicle weather-screen. A. C. Auster. No. 998,320; July 18; Sp. p. 3767; Gaz. vol. 168; p. 670.
Vehicle-wheel. C. M. Backman. No. 980,474; Jan. 3; Sp. p. 437; Gaz. vol. 162; p. 105.
Vehicle-wheel. L. L. Rogers. No. 981,947; Jan. 17; Sp. p. 3985; Gaz. vol. 162; p. 665.
Vehicle-wheel. E. S. Frey. No. 982,047; Jan. 17; Sp. p. 4194; Gaz. vol. 162; p. 699.
Vehicle-wheel. G. B. Lambert. No. 982,143; Jan. 17; Sp. p. 4369; Gaz. vol. 162; p. 730.
Vehicle-wheel. W. J. Straight. No. 983,177; Jan. 31; Sp. p. 6552; Gaz. vol. 162; p. 1140.
Vehicle-wheel. W. H. Fahrney. No. 983,612; Feb. 7; Sp. p. 770; Gaz. vol. 163; p. 121.
Vehicle-wheel. J. A. Toohey. No. 983,848; Feb. 7; Sp. p. 1268; Gaz. vol. 163; p. 203.
Vehicle-wheel. H. C. Gibson. No. 986,452; Mar. 14; Sp. p. 1473; Gaz. vol. 164; p. 265.
Vehicle-wheel. W. S. Carroll and J. T. Rowles. No. 986,687; Mar. 14; Sp. p. 1971; Gaz. vol. 164; p. 347.
Vehicle-wheel. C. Collier. No. 986,691; Mar. 14; Sp. p. 1982; Gaz. vol. 164; p. 348.
Vehicle-wheel. J. B. Adt. No. 988,685; Apr. 4; Sp. p. 843; Gaz. vol. 165; p. 136.
Vehicle-wheel. R. Reininger. No. 989,049; Apr. 11; Sp. p. 1588; Gaz. vol. 165; p. 279.
Vehicle-wheel. N. S. Airhart and J. I. Rhea. No. 989,750; Apr. 18; Sp. p. 3123; Gaz. vol. 165; p. 549.
Vehicle-wheel. H. M. Young. No. 990,328; Apr. 25; Sp. p. 4396; Gaz. vol. 165; p. 778.

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Vehicle-wheel. W. L. Howard. No. 991,311; May 2; Sp. p. 1048; Gaz. vol. 166; p. 175.
Vehicle-wheel. W. L. Howard. No. 991,312; May 2; Sp. p. 1050; Gaz. vol. 166; p. 175.
Vehicle-wheel. H. G. Tucker. No. 992,085; May 9; Sp. p. 2637; Gaz. vol. 166; p. 469.
Vehicle-wheel. G. W. Dudley. No. 993,043; May 23; Sp. p. 4751; Gaz. vol. 166; p. 864.
Vehicle-wheel. J. G. McAlpine. No. 993,088; May 23; Sp. p. 4846; Gaz. vol. 166; p. 880.
Vehicle-wheel. A. W. Abernathy. No. 993,332; May 23; Sp. p. 5345; Gaz. vol. 166; p. 958.
Vehicle-wheel. G. J. Spohrer. No. 993,466; May 30; Sp. p. 5655; Gaz. vol. 166; p. 1035.
Vehicle-wheel. S. E. Chapman. No. 994,571; June 6; Sp. p. 978; Gaz. vol. 167; p. 162.
Vehicle-wheel. T. B. Jeffery. No. 995,010; June 13; Sp. p. 2014; Gaz. vol. 167; p. 353.
Vehicle-wheel. R. B. Love. No. 996,493; June 27; Sp. p. 5270; Gaz. vol. 167; p. 924.
Vehicle-wheel. N. Braibant. No. 996,831; July 4; Sp. p. 471; Gaz. vol. 168; p. 78.
Vehicle-wheel. W. C. Cole. No. 996,835; July 4; Sp. p. 480; Gaz. vol. 168; p. 79.
Vehicle-wheel. J. J. Haines. No. 997,668; July 11; Sp. p. 2235; Gaz. vol. 168; p. 395.
Vehicle-wheel. K. C. Laughlin. No. 997,837; July 11; Sp. p. 2643; Gaz. vol. 168; p. 455.
Vehicle-wheel. S. B. Griffen. No. 998,893; July 25; Sp. p. 5026; Gaz. vol. 168; p. 902.
Vehicle-wheel. A. Jutila. No. 1,000,013; Aug. 8; Sp. p. 1647; Gaz. vol. 169; p. 309.
Vehicle-wheel. S. D. Brooks. No. 1,000,322; Aug. 8; Sp. p. 2338; Gaz. vol. 169; p. 413.
Vehicle-wheel. A. Williams. No. 1,000,472; Aug. 15; Sp. p. 2688; Gaz. vol. 169; p. 499.
Vehicle-wheel. M. Danner. No. 1,001,000; Aug. 22; Sp. p. 3888; Gaz. vol. 169; p. 718.
Vehicle-wheel. S. Whiting. No. 1,001,329; Aug. 22; Sp. p. 4588; Gaz. vol. 169; p. 830.
Vehicle-wheel. C. Ulmer. No. 1,001,907; Aug. 29; Sp. p. 5801; Gaz. vol. 169; p. 1056.
Vehicle-wheel. J. H. Reed. No. 1,001,982; Aug. 29; Sp. p. 5968; Gaz. vol. 169; p. 1081.
Vehicle-wheel. A. James. No. 1,002,154; Aug. 29; Sp. p. 6281; Gaz. vol. 169; p. 1136.
Vehicle-wheel. L. Forse. No. 1,002,254; Sept. 5; Sp. p. 153; Gaz. vol. 170; p. 19.
Vehicle-wheel. B. W. Hammond. No. 1,002,582; Sept. 5; Sp. p. 897; Gaz. vol. 170; p. 133.
Vehicle-wheel. G. E. Brock. No. 1,002,636; Sept. 5; Sp. p. 1017; Gaz. vol. 170; p. 152.
Vehicle-wheel. A. Brooker. No. 1,002,638; Sept. 5; Sp. p. 1020; Gaz. vol. 170; p. 152.
Vehicle-wheel. G. Koch and J. A. Gates. No. 1,002,705; Sept. 5; Sp. p. 1160; Gaz. vol. 170; p. 175.
Vehicle-wheel. W. H. Fahrney. No. 1,004,397; Sept. 26; Sp. p. 4854; Gaz. vol. 170; p. 857.
Vehicle-wheel. J. C. Thoen. No. 1,004,501; Sept. 26; Sp. p. 5075; Gaz. vol. 170; p. 893.
Vehicle-wheel. L. B. Lodge. No. 1,004,667; Oct. 3; Sp. p. 248; Gaz. vol. 171; p. 43.
Vehicle-wheel. L. C. Smoot. No. 1,004,703; Oct. 3; Sp. p. 324; Gaz. vol. 171; p. 56.
Vehicle-wheel. E. L. Reguin. No. 1,004,819; Oct. 3; Sp. p. 579; Gaz. vol. 171; p. 95.
Vehicle-wheel. J. Callan. No. 1,004,988; Oct. 3; Sp. p. 928; Gaz. vol. 171; p. 154.
Vehicle-wheel. H. Moore. No. 1,005,276; Oct. 10; Sp. p. 1531; Gaz. vol. 171; p. 277.
Vehicle-wheel. A. R. Wylie and J. G. Wright. No. 1,005,399; Oct. 10; Sp. p. 1805; Gaz. vol. 171; p. 321.
Vehicle-wheel. A. R. Wylie and J. G. Wright. No. 1,005,400; Oct. 10; Sp. p. 1806; Gaz. vol. 171; p. 322.
Vehicle-wheel. M. C. Schwab. No. 1,005,891; Oct. 17; Sp. p. 2897; Gaz. vol. 171; p. 525.
Vehicle-wheel. E. S. Bottomly. No. 1,006,055; Oct. 17; Sp. p. 3252; Gaz. vol. 171; p. 582.
Vehicle-wheel. A. C. Huckelbridge. No. 1,006,219; Oct. 17; Sp. p. 3645; Gaz. vol. 171; p. 641.
Vehicle-wheel. A. E. Beall and C. F. Skellenger. No. 1,006,525; Oct. 24; Sp. p. 4340; Gaz. vol. 171; p. 778.
Vehicle-wheel. C. E. Goss. No. 1,006,650; Oct. 24; Sp. p. 4616; Gaz. vol. 171; p. 823.
Vehicle-wheel. J. S. Gammon. No. 1,007,088; Oct. 31; Sp. p. 5582; Gaz. vol. 171; p. 1026.
Vehicle-wheel. W. Enright. No. 1,007,436; Oct. 31; Sp. p. 6342; Gaz. vol. 171; p. 1152.
Vehicle-wheel. F. M. Tatum. No. 1,007,615; Oct. 31; Sp. p. 6735; Gaz. vol. 171; p. 1212.
Vehicle-wheel. J. H. Phillips. No. 1,007,728; Nov. 7; Sp. p. 165; Gaz. vol. 172; p. 27.
Vehicle-wheel. A. B. Simpson. No. 1,008,083; Nov. 7; Sp. p. 934; Gaz. vol. 172; p. 150.
Vehicle-wheel. F. W. Damitz. No. 1,009,226; Nov. 21; Sp. p. 3583; Gaz. vol. 172; p. 626.
Vehicle-wheel. J. Bustanoby. No. 1,009,720; Nov. 28; Sp. p. 4630; Gaz. vol. 172; p. 841.
Vehicle-wheel. I. W. Misensol and M. Boyer. No. 1,009,850; Nov. 28; Sp. p. 4901; Gaz. vol. 172; p. 886.
Vehicle-wheel. B. E. Dohner and A. J. Huff. No. 1,011,332; Dec. 12; Sp. p. 2122; Gaz. vol. 173; p. 362.
Vehicle-wheel. G. Mazzeo and P. Iarussi. No. 1,011,469; Dec. 12; Sp. p. 2401; Gaz. vol. 173; p. 410.
Vehicle-wheel. J. N. Bartie. No. 1,012,796; Dec. 26; Sp. p. 5330; Gaz. vol. 173; p. 949.
Vehicle-wheel and tire. M. Clark. No. 993,028; May 23; Sp. p. 4720; Gaz. vol. 166; p. 859.
Vehicle-wheel and tire. M. Clark. No. 1,006,465; Oct. 24; Sp. p. 4196; Gaz. vol. 171; p. 756.
Vehicle-wheel and tire. M. Clark. No. 1,008,116; Nov. 7; Sp. p. 1007; Gaz. vol. 172; p. 163.
Vehicle-wheel, Antiskidding. M. Clark. No. 985,884; Mar. 7; Sp. p. 266; Gaz. vol. 164; p. 43.
Vehicle-wheel, Resilient. R. T. Evans. No. 987,561; Mar. 21; Sp. p. 3771; Gaz. vol. 164; p. 673.
Vehicle-wheel, Resilient. G. Barker. No. 990,184; Apr. 18; Sp. p. 4048; Gaz. vol. 165; p. 696.
Vehicle-wheel, Resilient. R. L. Watts and A. G. Onstead. No. 1,004,318; Sept. 26; Sp. p. 4699; Gaz. vol. 170; p. 831.
Vehicle-wheel, Resilient metallic. W. H. Wales, Jr. No. 1,008,224; Nov. 7; Sp. p. 1246; Gaz. vol. 172; p. 203.
Vehicle wheel, Road-. J. A. C. Wright. No. 1,001,794; Aug. 29; Sp. p. 5540; Gaz. vol. 169; p. 1017.
Vehicle-wheel, Spring. W. H. Fahrney. No. 993,670; May 30; Sp. p. 6120; Gaz. vol. 166; p. 1107.
Vehicle-wheel, Spring. W. H. Fahrney. No. 998,241; July 18; Sp. p. 3565; Gaz. vol. 168; p. 639.
Vehicle, Wheeled. J. Göhring. No. 989,841; Apr. 18; Sp. p. 3334; Gaz. vol. 165; p. 581.
Vehicle wind-guard. M. L. Williams. No. 1,000,137; Aug. 8; Sp. p. 1956; Gaz. vol. 169; p. 352.
Vehicle wind-guard. M. L. Williams. No. 1,011,892; Dec. 12; Sp. p. 3349; Gaz. vol. 173; p. 556.
Vehicle wind-screens, Oscillating device for motor-. J. W. Earl. No. 988,448; Apr. 4; Sp. p. 340; Gaz. vol. 165; p. 55.
Vehicle wind-shield, Motor-. E. T. Burrowes. No. 985,883; Mar. 7; Sp. p. 261; Gaz. vol. 164; p. 43.
Vehicle wind-shield, Motor-. A. Loomis. No. 1,012,670; Dec. 26; Sp. p. 5027; Gaz. vol. 173; p. 903.
Vehicle-wrench. W. G. Hollowell. No. 1,006,216; Oct. 17; Sp. p. 3641; Gaz. vol. 171; p. 640.
Vehicles, Automatically controlling headlights for. B. M. Lincoln. No. 1,002,924; Sept. 12; Sp. p. 1679; Gaz. vol. 170; p. 290.
Vehicles, Collapsible cover or hood for motor and like. W. Reutter. No. 1,003,656; Sept. 19; Sp. p. 3204; Gaz. vol. 170; p. 577.
Vehicles, Combined steering and propelling means for. R. Fautsch. No. 1,006,925; Oct. 24; Sp. p. 5227; Gaz. vol. 171; p. 919.
Vehicles, Compound spring suspension for. J. J. Heilmann. No. 1,001,394; Aug. 22; Sp. p. 4726; Gaz. vol. 169; p. 852.
Vehicles, Compressed-air suspension for. L. Delpeuch. No. 1,009,287; Nov. 21; Sp. p. 3717; Gaz. vol. 172; p. 647.
Vehicles, Current-collector for electrically-propelled. W. Köhler. No. 1,004,884; Oct. 3; Sp. p. 747; Gaz. vol. 171; p. 120.
Vehicles, Cushioning device for. M. G. McGuire. No. 1,005,449; Oct. 10; Sp. p. 1916; Gaz. vol. 171; p. 338.
Vehicles, Detachable-rim device for road-. A. Flett. No. 1,003,728; Sept. 19; Sp. p. 3366; Gaz. vol. 170; p. 601.
Vehicles, Device for discharging and receiving articles from moving. D. D. Miles, Jr. No. 984,015; Feb. 14; Sp. p. 1666; Gaz. vol. 163; p. 288.
Vehicles, Device for reducing amount of energy required for propulsion of wheeled. C. Stefan. No. 1,000,564; Aug. 15; Sp. p. 2901; Gaz. vol. 169; p. 532.
Vehicles, Driving-gearing for motor-. C. T. Bangs. No. 992,104; May 9; Sp. p. 2668; Gaz. vol. 166; p. 475.
Vehicles, Friction driving mechanism for motor-. E. G. Owen. No. 1,005,291; Oct. 10; Sp. p. 1566; Gaz. vol. 171; p. 283.
Vehicles from one set of rails to another, Apparatus for transferring track-traversing. F. Cornelius and G. Schatte. No. 981,617; Jan. 17; Sp. p. 3242; Gaz. vol. 162; p. 551.
Vehicles, Front driving and steering mechanism for motor-. M. W. Sappington and E. S. Hornbeek. No. 990,073; Apr. 18; Sp. p. 3802; Gaz. vol. 165; p. 658.
Vehicles, Lantern-holder for. H. J. Holmes. No. 984,563; Feb. 21; Sp. p. 2859; Gaz. vol. 163; p. 509.
Vehicles, Non-skid device for motor road-. F. G. Garrett. No. 1,001,194; Aug. 22; Sp. p. 4296; Gaz. vol. 169; p. 784.
Vehicles, Riding attachment for. H. G. McCool. No. 995,363; June 13; Sp. p. 2757; Gaz. vol. 167; p. 470.
Vehicles, Runner attachment for. T. Schou. No. 998,406; July 18; Sp. p. 3948; Gaz. vol. 168; p. 700.
Vehicles, Spur attachment for. C. S. Judy. No. 996,257; June 27; Sp. p. 4735; Gaz. vol. 167; p. 842.
Vehicles, Steerable front wheel of motor-driven. P. Daimler. No. 980,211; Jan. 3; Sp. p. 69; Gaz. vol. 162; p. 14.

Alphabetical list of inventions—Continued.

Veil-fastener. H. A. Sadler. No. 992,450; May 16; Sp. p. 3483; Gaz. vol. 166; p. 627.
Velocipede. D. G. Caswell. No. 984,648; Feb. 21; Sp. p. 3042; Gaz. vol. 163; p. 538.
Velocipede. D. G. Caswell. No. 1,011,408; Dec. 12; Sp. p. 2261; Gaz. vol. 173; p. 386.
Velocipede. A. W. Raettig. No. 1,012,707; Dec. 26; Sp. p. 5115; Gaz. vol. 173; p. 917.
Velocipede driving and brake mechanism. J. Archer. No. 994,359; June 6; Sp. p. 530; Gaz. vol. 167; p. 91.
Velocipede, Hobby-horse. R. G. Jamison. No. 1,011,204; Dec. 12; Sp. p. 1805; Gaz. vol. 173; p. 314.
Velocity. Mechanism for gradually changing rotative. F. F. Stauffer. No. 1,000,633; Aug. 15; Sp. p. 3073; Gaz. vol. 169; p. 557.
Velvet-burnishing tool. R. Rohsow and F. Loewer. No. 998,397; July 18; Sp. p. 3930; Gaz. vol. 168; p. 696.
Velvet, plush, carpet, imitation fur, and the like, Manufacture of. H. Marche. No. 1,012,389; Dec. 19; Sp. p. 4453; Gaz. vol. 173; p. 763.
Velvet, ribbons, &c., Device for renovating. A. Litton. No. 1,005,244; Oct. 10; Sp. p. 1455; Gaz. vol. 171; p. 265.
Vending apparatus. A. R. Wetherly. No. 986,664; Mar. 14; Sp. p. 1934; Gaz. vol. 164; p. 341.
Vending apparatus. E. X. Somers. No. 994,882; June 13; Sp. p. 1752; Gaz. vol. 167; p. 310.
Vending apparatus. O. Jaeger. No. 1,007,873; Nov. 7; Sp. p. 521; Gaz. vol. 172; p. 79.
Vending apparatus, Milk-. W. Stellard. No. 1,007,501; Oct. 31; Sp. p. 6484; Gaz. vol. 171; p. 1173.
Vending-apparatus selective mechanism. E. Stern and W. Paciorkiewicz. No. 1,009,265; Nov. 21; Sp. p. 3665; Gaz. vol. 172; p. 639.
Vending apparatus, Stamp or ticket. G. L. Richards. No. 1,009,179; Nov. 21; Sp. p. 3430; Gaz. vol. 172; p. 607.
Vending device. C. E. Bridges. No. 996,610; July 4; Sp. p. 20; Gaz. vol. 168; p. 6.
Vending device. A. Pestel. No. 1,001,117; Aug. 8; Sp. p. 1909; Gaz. vol. 169; p. 344.
Vending-machine. F. I. Judson. No. 982,431; Jan. 24; Sp. p. 4978; Gaz. vol. 162; p. 861.
Vending-machine. J. Kriz and F. Schorik. No. 984,433; Feb. 14; Sp. p. 2556; Gaz. vol. 163; p. 429.
Vending-machine. J. H. Walter. No. 985,382; Feb. 28; Sp. p. 4592; Gaz. vol. 163; p. 823.
Vending-machine. L. H. Dupont and T. A. Killman. No. 985,516; Feb. 28; Sp. p. 4919; Gaz. vol. 163; p. 872.
Vending-machine. L. Fossee. No. 985,794; Mar. 7; Sp. p. 54; Gaz. vol. 164; p. 12.
Vending-machine. B. Lovatt. No. 987,634; Mar. 21; Sp. p. 3930; Gaz. vol. 164; p. 700.
Vending-machine. L. J. Barrow and G. S. Cobb. No. 988,297; Apr. 4; Sp. p. 4; Gaz. vol. 165; p. 3.
Vending-machine. G. F. Baker. No. 989,318; Apr. 11; Sp. p. 2179; Gaz. vol. 165; p. 371.
Vending-machine. L. Horinko. No. 989,363; Apr. 11; Sp. p. 2268; Gaz. vol. 165; p. 385.
Vending-machine. G. W. Peter. No. 990,899; May 2; Sp. p. 149; Gaz. vol. 166; p. 28.
Vending-machine. R. Fergusson. No. 991,143; May 2; Sp. p. 667; Gaz. vol. 166; p. 114.
Vending-machine. J. Schiemer. No. 991,900; May 9; Sp. p. 2282; Gaz. vol. 166; p. 407.
Vending-machine. C. F. Cress. No. 992,113; May 9; Sp. p. 2703; Gaz. vol. 166; p. 478.
Vending-machine. H. O. Brown. No. 993,021; May 23; Sp. p. 4705; Gaz. vol. 166; p. 857.
Vending-machine. S. L. W. Coe and H. Werden. No. 994,059; May 30; Sp. p. 6897; Gaz. vol. 166; p. 1239.
Vending-machine. G. R. Hammond. No. 995,865; June 20; Sp. p. 3882; Gaz. vol. 167; p. 674.
Vending-machine. L. H. Dupont and T. A. Killman. No. 997,546; July 11; Sp. p. 1959; Gaz. vol. 168; p. 351.
Vending-machine. A. R. Hussey. No. 999,790; Aug. 8; Sp. p. 1181; Gaz. vol. 169; p. 233.
Vending-machine. G. F. Linck. No. 1,000,027; Aug. 8; Sp. p. 1673; Gaz. vol. 169; p. 314.
Vending-machine. J. Schmidt. No. 1,000,347; Aug. 8; Sp. p. 2397; Gaz. vol. 169; p. 422.
Vending-machine. J. F. Dixon. No. 1,000,788; Aug. 15; Sp. p. 3401; Gaz. vol. 169; p. 611.
Vending-machine. G. J. Tubergen. No. 1,000,857; Aug. 15; Sp. p. 3534; Gaz. vol. 169; p. 635.
Vending-machine. C. J. Pfohl. No. 1,001,438; Aug. 22; Sp. p. 4808; Gaz. vol. 169; p. 866.
Vending-machine. H. S. Mills. No. 1,002,535; Sept. 5; Sp. p. 796; Gaz. vol. 170; p. 116.
Vending-machine. W. D. C. Wright. No. 1,003,167; Sept. 12; Sp. p. 2161; Gaz. vol. 170; p. 371.
Vending-machine. C. S. Hardy. No. 1,003,256; Sept. 12; Sp. p. 2364; Gaz. vol. 170; p. 406.
Vending-machine. C. H. Scofield. No. 1,003,814; Sept. 19; Sp. p. 3533; Gaz. vol. 170; p. 629.
Vending-machine. J. H. Walter. No. 1,004,832; Oct. 3; Sp. p. 611; Gaz. vol. 171; p. 100.
Vending-machine. E. L. Robinson. No. 1,005,749; Oct. 10; Sp. p. 2576; Gaz. vol. 171; p. 443.
Vending-machine. C. C. Clawson. No. 1,006,723; Oct. 24; Sp. p. 4747; Gaz. vol. 171; p. 846.

Vending-machine. A. A. Caille and H. B. Conover. No. 1,010,231; Nov. 28; Sp. p. 5667; Gaz. vol. 172; p. 1014.
Vending-machine. J. Fritsche. No. 1,010,888; Dec. 5; Sp. p. 1086; Gaz. vol. 173; p. 170.
Vending-machine. E. S. Church. No. 1,011,319; Dec. 12; Sp. p. 2086; Gaz. vol. 173; p. 357.
Vending-machine. L. A. Vandiver. No. 1,012,940; Dec. 26; Sp. p. 5676; Gaz. vol. 173; p. 997.
Vending-machine, Automatic. A. Moses. No. 986,078; Mar. 7; Sp. p. 687; Gaz. vol. 164; p. 110.
Vending-machine, Automatic. R. B. Craig and A. Coffman. No. 987,701; Mar. 28; Sp. p. 4099; Gaz. vol. 164; p. 752.
Vending-machine, Automatic. R. B. Craig and A. Coffman. No. 987,702; Mar. 28; Sp. p. 4108; Gaz. vol. 164; p. 752.
Vending-machine, Automatic. J. Samuel. No. 988,595; Apr. 4; Sp. p. 662; Gaz. vol. 165; p. 106.
Vending machine, Bottle-. C. A. Jones. No. 984,223; Feb. 14; Sp. p. 2115; Gaz. vol. 163; p. 359.
Vending machine, Bottle-. W. H. Herman. No. 1,013,015; Dec. 26; Sp. p. 5842; Gaz. vol. 173; p. 1022.
Vending machine, Check-controlled postage-stamp-. C. Simon. No. 1,007,983; Nov. 7; Sp. p. 741; Gaz. vol. 172; p. 116.
Vending machine, Cigar and pencil. J. B. Baker. No. 998,667; July 25; Sp. p. 4505; Gaz. vol. 168; p. 822.
Vending-machine, Coin. J. V. Morris and H. E. Oliver. No. 986,490; Mar. 14; Sp. p. 1563; Gaz. vol. 164; p. 279.
Vending-machine, Coin. J. A. Webster. No. 1,005,382; Oct. 10; Sp. p. 1767; Gaz. vol. 171; p. 315.
Vending-machine, Coin-controlled. E. F. Spaulding. No. 981,891; Jan. 17; Sp. p. 3812; Gaz. vol. 162; p. 644.
Vending-machine, Coin-controlled. E. F. Spaulding. No. 981,892; Jan. 17; Sp. p. 3825; Gaz. vol. 162; p. 645.
Vending-machine, Coin-controlled. J. G. C. Mantle. No. 987,636; Mar. 21; Sp. p. 3934; Gaz. vol. 164; p. 701.
Vending-machine, Coin-controlled. H. E. Boucher. No. 994,115; June 6; Sp. p. 22; Gaz. vol. 167; p. 6.
Vending-machine, Coin-controlled. H. Francis. No. 994,916; June 13; Sp. p. 1826; Gaz. vol. 167; p. 321.
Vending-machine, Coin-controlled. J. V. Morris and N. D. Edmondson. No. 999,837; Aug. 8; Sp. p. 1264; Gaz. vol. 169; p. 247.
Vending-machine, Coin-controlled. J. W. Mathes. No. 1,002,722; Sept. 5; Sp. p. 1212; Gaz. vol. 170; p. 181.
Vending-machine, Coin-controlled. J. W. Mabin. No. 1,008,167; Nov. 7; Sp. p. 1101; Gaz. vol. 172; p. 181.
Vending-machine, Coin-controlled. E. F. Spaulding. No. 1,008,384; Nov. 14; Sp. p. 1674; Gaz. vol. 172; p. 298.
Vending-machine coin-controlled apparatus. O. J. Hotaling. No. 992,774; May 23; Sp. p. 4152; Gaz. vol. 166; p. 768.
Vending-machine coin-controlled mechanism. B. Worthington. No. 1,010,838; Dec. 5; Sp. p. 877; Gaz. vol. 173; p. 153.
Vending-machine coin-controlled operating mechanism. F. W. Waterman. No. 989,459; Apr. 11; Sp. p. 2464; Gaz. vol. 165; p. 416.
Vending machine, Coin-controlled ticket-. F. J. Rowse. No. 995,988; June 20; Sp. p. 4115; Gaz. vol. 167; p. 716.
Vending-machine coin-operated mechanism. L. Horinko. No. 986,985; Mar. 14; Sp. p. 2577; Gaz. vol. 164; p. 446.
Vending-machine coin-testing device. P. A. Robichon. No. 993,878; May 30; Sp. p. 6541; Gaz. vol. 166; p. 1179.
Vending machine, Cup-. R. Robbins. No. 1,012,444; Dec. 19; Sp. p. 4554; Gaz. vol. 173; p. 780.
Vending-machine ejector. A. D. Grover and E. E. Barber. No. 982,812; Jan. 31; Sp. p. 5786; Gaz. vol. 162; p. 1019.
Vending-machine for post-cards or like articles, Automatic. R. Barta. No. 1,007,049; Oct. 31; Sp. p. 5475; Gaz. vol. 171; p. 1013.
Vending-machine for postage-stamps, Automatic. T. W. Suggs. No. 990,020; Apr. 18; Sp. p. 3703; Gaz. vol. 165; p. 642.
Vending machine, Liquid-. C. H. Curtis. No. 990,344; Apr. 25; Sp. p. 4426; Gaz. vol. 165; p. 783.
Vending machine, Newspaper-. W. H. Fuerst. No. 1,008,130; Nov. 7; Sp. p. 1033; Gaz. vol. 172; p. 168.
Vending machine, Package-. W. H. Sigley. No. 1,004,094; Sept. 26; Sp. p. 4232; Gaz. vol. 170; p. 755.
Vending machine, Perfume-. W. C. Flinn. No. 988,701; Apr. 4; Sp. p. 890; Gaz. vol. 165; p. 141.
Vending machine, Post-card-. J. E. Gossman and J. Brucken. No. 983,045; Jan. 31; Sp. p. 6312; Gaz. vol. 162; p. 1098.
Vending-machine power mechanism. S. T. Castleman. No. 1,011,576; Dec. 12; Sp. p. 2676; Gaz. vol. 173; p. 449.
Vending machine, Stamp-. G. Trombley. No. 986,247; Mar. 7; Sp. p. 1027; Gaz. vol. 164; p. 165.
Vending machine, Stamp-. E. H. Sperberg. No. 997,714; July 11; Sp. p. 2328; Gaz. vol. 168; p. 411.
Vending machine, Stamp or ticket. F. J. Schumann. No. 1,009,102; Nov. 21; Sp. p. 3282; Gaz. vol. 172; p. 581.
Vending machine, Ticket-. B. F. McGrath. No. 992,024; May 9; Sp. p. 2521; Gaz. vol. 166; p. 449.
Vending machine, Ticket-. A. A. Caille. No. 1,004,144; Sept. 26; Sp. p. 4358; Gaz. vol. 170; p. 772.
Vending machines, Delivery mechanism for newspaper-. C. A. Dawes. No. 1,004,856; Oct. 3; Sp. p. 671; Gaz. vol. 171; p. 109.

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Veneer-cutting-machine attachment. A. E. Baxter. No. 1,004,345; Sept. 26; Sp. p. 4745; Gaz. vol. 170; p. 839.
Veneer-drier. C. A. Haas. No. 993,775; May 30; Sp. p. 6345; Gaz. vol. 166; p. 1144.
Veneer-drier. E. F. Smith. No. 1,008,211; Nov. 7; Sp. p. 1209; Gaz. vol. 172; p. 198.
Veneer-drier. E. F. Smith. (Reissue.) No. 13,341; Dec. 19; Sp. p. 4823; Gaz. vol. 173; p. 828.
Veneer-sizing machine. J. H. Totten. No. 1,000,855; Aug. 15; Sp. p. 3528; Gaz. vol. 169; p. 635.
Veneer-taping machine. A. A. Dennis. No. 1,012,609; Dec. 26; Sp. p. 4895; Gaz. vol. 173; p. 882.
Veneers, Machine for edge-uniting. J. Black. No. 1,010,846; Dec. 5; Sp. p. 996; Gaz. vol. 173; p. 156.
Veneering. P. Reckow. No. 1,007,973; Nov. 7; Sp. p. 723; Gaz. vol. 172; p. 113.
Vent-stopper. W. E. and J. A. Rowe. No. 994,691; June 6; Sp. p. 1257; Gaz. vol. 167; p. 204.
Ventilating apparatus. F. E. Swift. No. 983,179; Jan. 31; Sp. p. 6555; Gaz. vol. 162; p. 1140.
Ventilating-cap. P. Mueller. No. 993,705; May 30; Sp. p. 6198; Gaz. vol. 166; p. 1120.
Ventilating device. J. A. Glass. No. 981,635; Jan. 17; Sp. p. 3279; Gaz. vol. 162; p. 556.
Ventilating device. L. A. Bright. No. 984,262; Feb. 14; Sp. p. 2210; Gaz. vol. 163; p. 373.
Ventilating device. M. B. Cunningham. No. 985,730; Feb. 28; Sp. p. 5394; Gaz. vol. 163; p. 945.
Ventilating device. L. S. Hackney. No. 988,463; Apr. 4; Sp. p. 374; Gaz. vol. 165; p. 60.
Ventilating device. F. J. Nies. No. 1,006,119; Oct. 17; Sp. p. 3400; Gaz. vol. 171; p. 604.
Ventilating mechanism. B. A. Stowe. No. 992,824; May 23; Sp. p. 4263; Gaz. vol. 166; p. 787.
Ventilating-pipes, Roof-jacket for. H. P. Wallace. No. 1,010,100; Nov. 28; Sp. p. 5414; Gaz. vol. 172; p. 970.
Ventilating-screen. L. A. Karlson. No. 998,690; July 25; Sp. p. 4554; Gaz. vol. 168; p. 829.
Ventilating system. M. Gans. No. 993,592; May 30; Sp. p. 5929; Gaz. vol. 166; p. 1080.
Ventilating system. E. M. Matthews. No. 999,385; Aug. 1; Sp. p. 386; Gaz. vol. 169; p. 68.
Ventilating system for factories, printing-offices, &c. H. C. Zenke. No. 980,471; Jan. 3; Sp. p. 632; Gaz. vol. 162; p. 104.
Ventilator. *See* Adjustable ventilator; Car-ventilator; Closet-bowl ventilator; Receptacle-ventilator; Temperature-regulating ventilator; Thermostat-ventilator; Tree-ventilator; Window-ventilator.
Ventilator. R. O. Bone. No. 982,235; Jan. 24; Sp. p. 4556; Gaz. vol. 162; p. 792.
Ventilator. W. H. Cummings. No. 985,148; Feb. 28; Sp. p. 4084; Gaz. vol. 163; p. 745.
Ventilator. E. E. Gold. No. 985,158; Feb. 28; Sp. p. 4109; Gaz. vol. 163; p. 748.
Ventilator. T. M. Barbee. No. 985,244; Feb. 28; Sp. p. 4310; Gaz. vol. 163; p. 779.
Ventilator. R. L. Crescy. No. 987,434; Mar. 21; Sp. p. 3535; Gaz. vol. 164; p. 632.
Ventilator. E. Stephany. No. 987,504; Mar. 21; Sp. p. 3676; Gaz. vol. 164; p. 656.
Ventilator. H. Obermann. No. 988,496; Apr. 4; Sp. p. 437; Gaz. vol. 165; p. 71.
Ventilator. E. B. Freeman. No. 990,536; Apr. 25; Sp. p. 4890; Gaz. vol. 165; p. 853.
Ventilator. W. J. Lindemeyer. (Reissue.) No. 13,239; May 9; Sp. p. 2766; Gaz. vol. 166; p. 490.
Ventilator. H. A. Dirkes. No. 996,320; June 27; Sp. p. 4894; Gaz. vol. 167; p. 864.
Ventilator. M. H. Haines. No. 997,806; July 11; Sp. p. 2588; Gaz. vol. 168; p. 444.
Ventilator. A. Fletcher. No. 998,608; July 25; Sp. p. 4371; Gaz. vol. 168; p. 800.
Ventilator. D. C. McCandless. No. 1,001,421; Aug. 22; Sp. p. 4780; Gaz. vol. 169; p. 861.
Ventilator. W. F. Gulnerich. No. 1,002,056; Aug. 29; Sp. p. 6110; Gaz. vol. 169; p. 1104.
Ventilator. A. G. Wilson. No. 1,002,549; Sept. 5; Sp. p. 820; Gaz. vol. 170; p. 120.
Ventilator. E. Posson. No. 1,003,504; Sept. 19; Sp. p. 2863; Gaz. vol. 170; p. 523.
Ventilator. W. McDermott No. 1,006,668; Oct. 24; Sp. p. 4653; Gaz. vol. 171; p. 829.
Ventilator. E. Rosenheim. No. 1,011,494; Dec. 12; Sp. p. 2461; Gaz. vol. 173; p. 419.
Ventilator. J. M. Cromley. No. 1,011,587; Dec. 12; Sp. p. 2706; Gaz. vol. 173; p. 453.
Ventilator and dust-arrester, Combined. A. C. Crenshaw. No. 986,144; Mar. 7; Sp. p. 804; Gaz. vol. 164; p. 130.
Ventilator and heating apparatus, Combined. W. T. Claycomb. No. 994,057; May 30; Sp. p. 6894; Gaz. vol. 166; p. 1238.
Ventilator and storm-shield. B. J. Crandall. No. 990,474; Apr. 25; Sp. p. 4725; Gaz. vol. 165; p. 831.
Ventilator for buildings and chimney-tops. T. H. Garland. No. 1,006,930; Oct. 24; Sp. p. 5236; Gaz. vol. 171; p. 921.
Ventilator-frame. G. Kahn. No. 993,529; May 30; Sp. p. 5793; Gaz. vol. 166; p. 1058.
Verdigris, Producing. G. Schneider. No. 1,009,864; Nov. 28; Sp. p. 4928; Gaz. vol. 172; p. 890.
Vertical boiler. W. P. Barclay. No. 1,009,275; Nov. 21; Sp. p. 3695; Gaz. vol. 172; p. 643.
Vertically-adjustable table. F. Schimmel. No. 982,882; Jan. 31; Sp. p. 5948; Gaz. vol. 162; p. 1043.
Vessel and other craft. P. Maggio. No. 990,759; Apr. 25; Sp. p. 5373; Gaz. vol. 165; p. 927.
Vessel and propeller. A. H. Wheeler. No. 1,001,914; Aug. 29; Sp. p. 5820; Gaz. vol. 169; p. 1059.
Vessel and the closure thereof. H. Marles. No. 1,012,390; Dec. 19; Sp. p. 4454; Gaz. vol. 173; p. 763.
Vessel closure, Dispensing-. J. E. Keily. No. 983,725; Feb. 7; Sp. p. 1005; Gaz. vol. 163; p. 160.
Vessel-closures, Apparatus for applying. J. Conley. No. 982,797; Jan. 31; Sp. p. 5750; Gaz. vol. 162; p. 1014.
Vessel construction. R. O. King. No. 988,354; Apr. 4; Sp. p. 128; Gaz. vol. 165; p. 23.
Vessel, Double-walled. G. P. Altenberg and F. Boehm. No. 991,409; May 2; Sp. p. 1238; Gaz. vol. 166; p. 207.
Vessel, Double-walled. G. P. Altenberg and F. Boehm. No. 991,410; May 2; Sp. p. 1241; Gaz. vol. 166; p. 207.
Vessel, Electrically-heated. M. Marzetti. No. 992,021; May 9; Sp. p. 2514; Gaz. vol. 166; p. 448.
Vessel, Electrically-heated. H. Mieth. No. 993,314; May 23; Sp. p. 5300; Gaz. vol. 166; p. 951.
Vessel elevator, Marine-. H. Barlow. No. 1,006,044; Oct. 17; Sp. p. 3236; Gaz. vol. 171; p. 579.
Vessel-fender. A. Geering. No. 991,055; May 2; Sp. p. 466; Gaz. vol. 166; p. 81.
Vessel-fender. M. Morhászky. No. 991,224; May 2; Sp. p. 842; Gaz. vol. 166; p. 143.
Vessel, Fluid-jet-propelled. P. G. Somers. No. 1,007,811; Nov. 7; Sp. p. 369; Gaz. vol. 172; p. 58.
Vessel, Freight. A. J. Peebles. No. 995,557; June 20; Sp. p. 3183; Gaz. vol. 167; p. 566.
Vessel, Hydroplane. G. R. Clifford. No. 998,278; July 18; Sp. p. 3658; Gaz. vol. 168; p. 653.
Vessel indicator and register. Marine-. E. A. Fish. No. 1,008,457; Nov. 14; Sp. p. 1895; Gaz. vol. 172; p. 324.
Vessel lid, Metallic-. A. Mauser. No. 990,448; Apr. 25; Sp. p. 4678; Gaz. vol. 165; p. 822.
Vessel-loading apparatus. J. T. Clark. No. 1,003,706; Sept. 19; Sp. p. 3321; Gaz. vol. 170; p. 595.
Vessel-making machine. J. J. Porter. No. 985,631; Feb. 28; Sp. p. 5152; Gaz. vol. 163; p. 910.
Vessel, Marine. H. R. Henderson. No. 1,000,678; Aug. 15; Sp. p. 3160; Gaz. vol. 169; p. 572.
Vessel, Metallic. W. J. Corliss. No. 994,128; June 6; Sp. p. 52; Gaz. vol. 167; p. 11.
Vessel, Metallic. L. O. Brown. No. 1,005,933; Oct. 17; Sp. p. 3004; Gaz. vol. 171; p. 541.
Vessel, Submarine. M. A. Laubeuf. No. 989,371; Apr. 11; Sp. p. 2290; Gaz. vol. 165; p. 387.
Vessel ventilating apparatus, Submarine-. H. Hertzberg. A. A. Low, and M. J. Wohl. No. 1,006,380; Oct. 17; Sp. p. 3999; Gaz. vol. 171; p. 696.
Vessels, Apparatus for inserting closures in. K. O. Olson. No. 1,010,304; Nov. 28; Sp. p. 5826; Gaz. vol. 172; p. 1007.
Vessels, Apparatus for raising sunken. J. B. Serres. No. 1,002,184; Aug. 29; Sp. p. 6340; Gaz. vol. 169; p. 1146.
Vessels, Apparatus for raising sunken. C. Williamson. No. 1,009,123; Nov. 21; Sp. p. 3326; Gaz. vol. 172; p. 588.
Vessel's cargo, Apparatus for indicating the weight of a. D. Mackay. No. 1,002,857; Sept. 12; Sp. p. 1500; Gaz. vol. 170; p. 265.
Vessels, Conning-tower for submarine and diving. G. J. K. Behrmann and E. Hurlbrink. No. 1,011,012; Dec. 5; Sp. p. 1338; Gaz. vol. 173; p. 213.
Vessels, Determining position of. R. A. Fessenden. No. 1,002,141; Aug. 29; Sp. p. 6259; Gaz. vol. 169; p. 1132.
Vessels, Device for raising sunken. L. Sanguinetti. No. 998,403; July 18; Sp. p. 3944; Gaz. vol. 168; p. 699.
Vessels, Device for raising sunken. C. H. Brown. No. 1,005,408; Oct. 10; Sp. p. 1820; Gaz. vol. 171; p. 324.
Vessels, Fitting submarine signaling apparatus to. T. S. Bailey. No. 996,395; June 27; Sp. p. 5062; Gaz. vol. 167; p. 891.
Vessels, Hull of navigable. G. and J. Fawkes. No. 1,009,230; Nov. 21; Sp. p. 3588; Gaz. vol 172; p. 627.
Vessels' hulls, Method of and apparatus for constructing. S. Lake. No. 1,013,024; Dec. 26; Sp. p. 5862; Gaz. vol. vol. 173; p. 1025.
Vessels, Manufacture of hollow-wall. O. J. W. Higbee. No. 1,012,547; Dec. 19; Sp. p. 4760; Gaz. vol. 173; p. 817.
Vessels, Means for raising sunken. J. Skatschkoff. No. 994,611; June 6; Sp. p. 1059; Gaz. vol. 167; p. 176.
Vessels, Method and apparatus for producing exhausted. I. Langmuir. No. 994,010; May 30; Sp. p. 6812; Gaz. vol. 166; p. 1223.
Vessels, Method of and means for raising or repairing. J. F. O'Rourke. No. 988,136; Mar. 28; Sp. p. 5073; Gaz. vol. 164; p. 900.
Vessels using oil fuel, Deck-plate filler for. A. Winton. No. 999,688; Aug. 1; Sp. p. 965; Gaz. vol. 169; p. 169.
Vest-holder. M. Schwartz. No. 987,262; Mar. 21; Sp. p. 3180; Gaz. vol. 164; p. 575.
Vestibule doors and traps, Device for operating. J. L. Miller and J. E. Hine. No. 995,889; June 20; Sp. p. 3935; Gaz. vol. 167; p. 682.

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Vestibule storm-shield. C. F. Wensinger. No. 995,933; June 20; Sp. p. 4019; Gaz. vol. 167; p. 699.
Veterinary dental halter. R. D. Speck. No. 1,005,666; Oct. 10; Sp. p. 2419; Gaz. vol. 171; p. 416.
Veterinary forceps. H. W. Overbeck. No. 1,007,136; Oct. 31; Sp. p. 5701; Gaz. vol. 171; p. 1046.
Veterinary instrument. O. Crittenden. No. 1,008,017; Nov. 7; Sp. p. 802; Gaz. vol. 172; p. 128.
Veterinary medicine-spoon. M. E. Pfaff. No. 1,010,795; Dec. 5; Sp. p. 883; Gaz. vol. 173; p. 138.
Veterinary molar-extractor. S. B. Dunn. No. 991,772; May 9; Sp. p. 2016; Gaz. vol. 166; p. 363.
Veterinary obstetrical forceps. C. A. Coe. No. 1,009,475; Nov. 21; Sp. p. 4146; Gaz. vol. 172; p. 714.
Veterinary-surgeon's float. J. Sklar. No. 994,483; June 6; Sp. p. 778; Gaz. vol. 167; p. 132.
Vial-necking machine. E. E. Kimble and J. M. Levis. No. 1,009,418; Nov. 21; Sp. p. 4026; Gaz. vol. 172; p. 695.
Vibrating cup. W. E. Snyder. No. 1,000,700; Aug. 15; Sp. p. 3212; Gaz. vol. 169; p. 580.
Vibrating device, Electrical. H. N. Cupp. No. 1,005,612; Oct. 10; Sp. p. 2300; Gaz. vol. 171; p. 396.
Vibration-diffuser, Pneumatic. C. H. Cox. No. 992,483; May 16; Sp. p. 3564; Gaz. vol. 166; p. 639.
Vibration-recorder for automobiles and other vehicles. E. S. Phelps. No. 1,001,220; Aug. 22; Sp. p. 4349; Gaz. vol. 169; p. 792.
Vibrations of bodies, Device for damping. H. Frahm. No. 989,958; Apr. 18; Sp. p. 3576; Gaz. vol. 165; p. 620.
Vibrator-box. H. C. Thomson. No. 1,009,940; Nov. 28; Sp. p. 5069; Gaz. vol. 172; p. 914.
Vibrator, Electrical. H. I. Blattle and P. Newman. No. 994,300; June 6; Sp. p. 405; Gaz. vol. 167; p. 69.
Vibrator, Electrically-operated. H. Z. Sands. No. 1,006,684; Oct. 24; Sp. p. 4686; Gaz. vol. 171; p. 834.
Vibrator, Electromagnetic. C. H. Thordarson. No. 983,657; Feb. 7; Sp. p. 864; Gaz. vol. 163; p. 138.
Vibrator, Fluid-actuated. J. B. Kirby. No. 1,008,476; Nov. 14; Sp. p. 1933; Gaz. vol. 172; p. 330.
Vibrator for local application to the person, Electromagnetic. A. Rosenberg. No. 1,000,294; Aug. 8; Sp. p. 2285; Gaz. vol. 169; p. 405.
Vibrator, Hand-. G. C. Liller and F. C. Kauffman. No. 1,010,928; Dec. 5; Sp. p. 1177; Gaz. vol. 173; p. 185.
Vibrator, Magnetic. F. V. Smith. No. 994,957; June 13; Sp. p. 1906; Gaz. vol. 167; p. 335.
Vibrator, Turbine-. R. Messlin. No. 1,006,770; Oct. 24; Sp. p. 4864; Gaz. vol. 171; p. 864.
Vibroscope. C. F. Hopewell. No. 999,225; Aug. 1; Sp. p. 67; Gaz. vol. 169; p. 13.
View-finder. W. F. Folmer. No. 989,240; Apr. 11; Sp. p. 1999; Gaz. vol. 165; p. 343.
Vine-cutter. C. J. Barnes. No. 989,224; Apr. 11; Sp. p. 1962; Gaz. vol. 165; p. 338.
Violin. O. O. Storle. No. 1,012,743; Dec. 26; Sp. p. 5194; Gaz. vol. 173; p. 930.
Violin-bow. T. Kurth. No. 1,000,611; Aug. 15; Sp. p. 3013; Gaz. vol. 169; p. 549.
Violin-bow guide. L. G. Garrett. No. 987,061; Mar. 14; Sp. p. 2728; Gaz. vol. 164; p. 471.
Violin-bows, Device for hairing. W. H. McKinney. No. 993,184; May 23; Sp. p. 5042; Gaz. vol. 166; p. 910.
Violin-tuning peg. M. O. Wickes. No. 980,578; Jan. 3; Sp. p. 875; Gaz. vol. 162; p. 140.
Violins and like instruments, Attachment for. G. Somerville. No. 992,454; May 16; Sp. p. 3489; Gaz. vol. 166; p. 628.
Viscose, Concentrating and maturing. L. Naudin. No. 986,306; Mar. 7; Sp. p. 1139; Gaz. vol. 164; p. 184.
Vise. W. S. Ducharme. No. 982,483; Jan. 24; Sp. p. 5106; Gaz. vol. 162; p. 881.
Vise. G. A. Hertlein. No. 985,807; Mar. 7; Sp. p. 81; Gaz. vol. 164; p. 17.
Vise. H. G. Miller. No. 986,485; Mar. 14; Sp. p. 1551; Gaz. vol. 164; p. 277.
Vise. B. M. W. Hanson. No. 989,004; Apr. 11; Sp. p. 1500; Gaz. vol. 165; p. 263.
Vise. B. M. W. Hanson. No. 989,005; Apr. 11; Sp. p. 1503; Gaz. vol. 165; p. 264.
Vise. J. M. Lewis. No. 993,181; May 23; Sp. p. 5038; Gaz. vol. 166; p. 910.
Vise. C. D. Bingham. No. 994,240; June 6; Sp. p. 292; Gaz. vol. 167; p. 50.
Vise. E. Fisher. No. 999,978; Aug. 8; Sp. p. 1573; Gaz. vol. 169; p. 296.
Vise. E. Fisher. No. 999,979; Aug. 8; Sp. p. 1575; Gaz. vol. 169; p. 296.
Vise. H. S. Kuhn. No. 1,000,416; Aug. 15; Sp. p. 2571; Gaz. vol. 169; p. 479.
Vise. A. Gogarten. No. 1,001,752; Aug. 29; Sp. p. 5455; Gaz. vol. 169; p. 1004.
Vise. R. W. and L. H. Bateman. No. 1,002,486; Sept. 5; Sp. p. 693; Gaz. vol. 170; p. 101.
Vise. W. A. Hyle. No. 1,009,970; Nov. 28; Sp. p. 5132; Gaz. vol. 172; p. 925.
Vise. L. S. Starrett. No. 1,012,226; Dec. 19; Sp. p. 4126; Gaz. vol. 173; p. 708.
Vise and work-holder, Universal. L. L. Skow and E. M. F. M. Petersen. No. 983,091; Jan. 31; Sp. p. 6405; Gaz. vol. 162; p. 1113.
Vise attachment. A. D. Bach. No. 986,619; Mar. 14; Sp. p. 1828; Gaz. vol. 164; p. 324.
Vise, Bench-. T. A. Gannoe. No. 983,131; Jan. 31; Sp. p. 6475; Gaz. vol. 162; p. 1126.
Vise, Bench-. H. L. Lightfoot and C. L. Freeman. No. 1,006,571; Oct. 24; Sp. p. 4462; Gaz. vol. 171; p. 796.
Vise, Blacksmith's. M. M. Haberlein. No. 1,009,407; Nov. 21; Sp. p. 3998; Gaz. vol. 172; p. 691.
Vise, Carpenter's saw-. D. P. Daley. No. 997,243; July 4; Sp. p. 1354; Gaz. vol. 168; p. 222.
Vise, Hand-. B. Jahn. No. 998,248; July 18; Sp. p. 3577; Gaz. vol. 168; p. 641.
Vise, Horseshoer's foot-. T. K. Snyder. No. 1,003,665; Sept. 19; Sp. p. 3219; Gaz. vol. 170; p. 580.
Vise-jaw attachment. L. S. Starrett. No. 1,006,509; Oct. 24; Sp. p. 4306; Gaz. vol. 171; p. 772.
Vise, Pipe-. J. L. Lanter. No. 1,008,277; Nov. 7; Sp. p. 1361; Gaz. vol. 172; p. 222.
Vise, Turret-. H. S. Kuhn. No. 1,000,417; Aug. 15; Sp. p. 2573; Gaz. vol. 169; p. 479.
Vises, Elbow-former attachment for pipe-. I. D. Powell. No. 998,924; July 25; Sp. p. 5089; Gaz. vol. 168; p. 913.
Vitreous compounds turbid, Rendering. L. Weiss. No. 1,001,789; Aug. 29; Sp. p. 5531; Gaz. vol. 169; p. 1016.
Volatile products from wood, Extracting. F. A. Kummer. No. 984,818; Feb. 21; Sp. p. 3400; Gaz. vol. 163; p. 599.
Volatilizer apparatus. R. A. Carter, Jr. No. 1,003,702; Sept. 19; Sp. p. 3313; Gaz. vol. 170; p. 593.
Volt and ammeter. H. Fish. No. 999,977; Aug. 8; Sp. p. 1572; Gaz. vol. 169; p. 296.
Voltage controller, Multiple-. H. W. Cheney. No. 987,698; Mar. 28; Sp. p. 4091; Gaz. vol. 164; p. 751.
Voltage controller, Multiple-. E. W. Stull and G. B. Schley. No. 992,289; May 16; Sp. p. 3130; Gaz. vol. 166; p. 570.
Voltage of alternating-current machines, Regulation of the. C. A. Parsons and A. H. Law. No. 1,005,293; Oct. 10; Sp. p. 1569; Gaz. vol. 171; p. 283.
Voltage regulation, System of. A. A. Tirrill. No. 1,001,711; Aug. 29; Sp. p. 5367; Gaz. vol. 169; p. 990.
Voltage-regulator. S. B. Storer. No. 1,004,102; Sept. 26; Sp. p. 4253; Gaz. vol. 170; p. 758.
Voltage-regulator, Automatic. G. A. Burnham. No. 985,109; Feb. 21; Sp. p. 3943; Gaz. vol. 163; p. 697.
Voltage-regulator, Automatic. G. A. Burnham. No. 988,441; Apr. 4; Sp. p. 327; Gaz. vol. 165; p. 53.
Voltage-regulator, Automatic. G. A. Burnham. No. 988,442; Apr. 4; Sp. p. 330; Gaz. vol. 165; p. 53.
Voltage-regulator, Automatic. G. D'Eustachio and P. von Lehoczky. No. 1,005,107; Oct. 3; Sp. p. 1141; Gaz. vol. 171; p. 193.
Voltage-regulator, Feeder. B. P. Rucker. No. 1,011,855; Dec. 12; Sp. p. 3271; Gaz. vol. 173; p. 543.
Voltmeter, ammeter, and pneumatic pressure-gage, Combination. L. P. Norton. No. 998,115; July 18; Sp. p. 3301; Gaz. vol. 168; p. 594.
Voltmeter, Electrostatic. H. E. Heath. No. 993,062; May 23; Sp. p. 4789; Gaz. vol. 166; p. 871.
Voting and other machines, Interlocking mechanism for. C. H. Ocumpaugh. No. 984,150; Feb. 14; Sp. p. 1943; Gaz. vol. 163; p. 333.
Voting-booth. A. E. and R. E. Patterson. No. 982,858; Jan. 31; Sp. p. 5898; Gaz. vol. 162; p. 1035.
Voting-booth. A. D. Albrecht. No. 1,005,789; Oct. 17; Sp. p. 2661; Gaz. vol. 171; p. 489.
Voting device, Independent-. C. H. Ocumpaugh. No. 992,040; May 9; Sp. p. 2552; Gaz. vol. 166; p. 454.
Voting-machine. J. H. McElroy. No. 982,736; Jan. 24; Sp. p. 5600; Gaz. vol. 162; p. 963.
Voting-machine. J. H. Dean. No. 982,775; Jan. 24; Sp. p. 5696; Gaz. vol. 162; p. 977.
Voting-machine. C. H. Ocumpaugh. No. 984,149; Feb. 14; Sp. p. 1932; Gaz. vol. 163; p. 332.
Voting-machine. L. R. Winslow. No. 986,789; Mar. 14; Sp. p. 2184; Gaz. vol. 164; p. 381.
Voting-machine. L. R. Winslow. No. 986,790; Mar. 14; Sp. p. 2188; Gaz. vol. 164; p. 381.
Voting-machine. A. McCarthy. No. 988,366; Apr. 4; Sp. p. 165; Gaz. vol. 165; p. 27.
Voting-machine. W. Langrill. No. 989,017; Apr. 11; Sp. p. 1520; Gaz. vol. 165; p. 267.
Voting-machine. C. H. Ocumpaugh. No. 991,882; May 9; Sp. p. 2249; Gaz. vol. 166; p. 401.
Voting-machine. G. G. Felland. No. 993,671; May 30; Sp. p. 6121; Gaz. vol. 166; p. 1108.
Voting-machine. W. H. Dana. No. 994,131; June 6; Sp. p. 57; Gaz. vol. 167; p. 12.
Voting-machine. W. H. Dana. No. 994,132; June 6; Sp. p. 60; Gaz. vol. 167; p. 12.
Voting-machine. S. Loe. No. 994,763; June 13; Sp. p. 1458; Gaz. vol. 167; p. 269.
Voting-machine. J. V. Prior. No. 995,093; June 13; Sp. p. 2196; Gaz. vol. 167; p. 381.
Voting-machine. H. C. H. Cooper. No. 995,326; June 13; Sp. p. 2628; Gaz. vol. 167; p. 455.
Voting-machine. J. H. Dean. No. 995,329; June 13; Sp. p. 2657; Gaz. vol. 167; p. 457.
Voting-machine. J. H. Dean. No. 995,330; June 13; Sp. p. 2665; Gaz. vol. 167; p. 458.
Voting-machine. J. H. Dean. No. 995,331; June 13; Sp. p. 2669; Gaz. vol. 167; p. 458.

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Voting-machine. F. Keiper. No. 995,351; June 13; Sp. p. 2719; Gaz. vol. 167; p. 465.
Voting-machine. W. J. Lausterer. No. 995,357; June 13; Sp. p. 2739; Gaz. vol. 167; p. 468.
Voting-machine. A. J. Gillespie. No. 995,424; June 13; Sp. p. 2889; Gaz. vol. 167; p. 490.
Voting-machine. C. H. Ocumpaugh. No. 995,708; June 20; Sp. p. 3515; Gaz. vol. 167; p. 620.
Voting-machine. L. R. Winslow. No. 1,000,062; Aug. 8; Sp. p. 1760; Gaz. vol. 169; p. 325.
Voting-machine. W. A. Swaren. No. 1,001,705; Aug. 29; Sp. p. 5355; Gaz. vol. 169; p. 987.
Voting-machine. E. B. Cummings. No. 1,001,732; Aug. 29; Sp. p. 5399; Gaz. vol. 169; p. 996.
Voting-machine. C. H. Ocumpaugh. No. 1,001,767; Aug. 29; Sp. p. 5486; Gaz. vol. 169; p. 1008.
Voting-machine. S. L. McLaurin. No. 1,004,669; Oct. 3; Sp. p. 252; Gaz. vol. 171; p. 44.
Voting-machine. E. B. Cummings. No. 1,010,596; Dec. 5; Sp. p. 432; Gaz. vol. 173; p. 69.
Voting-machine interlocking device. C. H. Ocumpaugh. No. 996,027; June 20; Sp. p. 4195; Gaz. vol. 167; p. 729.
Voting-machine lock-out. A. J. Gillespie. No. 995,342; June 13; Sp. p. 2694; Gaz. vol. 167; p. 462.
Voting-machine lock-out for primary elections. W. J. Lausterer. No. 982,731; Jan. 24; Sp. p. 5590; Gaz. vol. 162; p. 962.
Voting-machines, Grouping mechanism for. C. C. Abbott. No. 980,390; Jan. 3; Sp. p. 431; Gaz. vol. 162; p. 75.
Voting-machines, Key-resetting mechanism for. C. H. Ocumpaugh. No. 991,881; May 9; Sp. p. 2245; Gaz. vol. 166; p. 401.
Voting mechanism, Independent-. C. H. Ocumpaugh. No. 1,003,645; Sept. 19; Sp. p. 3177; Gaz. vol. 170; p. 572.
Vulcanizer. T. G. Lewis. No. 988,361; Apr. 4; Sp. p. 148; Gaz. vol. 165; p. 26.
Vulcanizer. S. H. Horne. No. 1,008,469; Nov. 14; Sp. p. 1922; Gaz. vol. 172; p. 328.
Vulcanizer-press. A. Adamson. No. 988,295; Apr. 4; Sp. p. 1; Gaz. vol. 165; p. 3.
Vulcanizing. J. R. Gammeter. No. 1,004,865; Oct. 3; Sp. p. 691; Gaz. vol. 171; p. 113.
Vulcanizing apparatus. J. E. Hitch. No. 999,029; July 25; Sp. p. 5339; Gaz. vol. 168; p. 950.
Vulcanizing apparatus. B. P. and F. I. Remy. No. 1,004,820; Oct. 3; Sp. p. 581; Gaz. vol. 171; p. 96.
Vulcanizing device. J. M. Robbins and J. F. Crew. No. 1,013,063; Dec. 26; Sp. p. 5938; Gaz. vol. 173; p. 1039.
Vulcanizing-press. M. P. Fellingham. No. 1,004,864; Oct. 3; Sp. p. 689; Gaz. vol. 171; p. 112.
Wafer-cutting machine. W. Wollbrinck. No. 1,012,230; Dec. 19; Sp. 4131; Gaz. vol. 173; p. 709.
Waffle-iron. R. O. Bingham. No. 995,520; June 20; Sp. p. 3106; Gaz. vol. 167; p. 553.
Waffle-irons, frying-pans, &c., Attachment for. F. W. Ljung. No. 1,010,059; Nov. 28; Sp. p. 5333; Gaz. vol. 172; p. 956.
Wagon. F. Farney. No. 996,323; June 27; Sp. p. 4900; Gaz. vol. 167; p. 865.
Wagon. T. B. Mason. No. 1,009,541; Nov. 21; Sp. p. 4274; Gaz. vol. 172; p. 736.
Wagon. S. Little. No. 1,012,666; Dec. 26; Sp. p. 5021; Gaz. vol. 173; p. 901.
Wagon and surf-boat, Combined beach-. J. A. Howell. No. 992,775; May 23; Sp. p. 4155; Gaz. vol. 166; p. 769.
Wagon-bodies, Double step for. D. S. Lloyd. No. 992,785; May 23; Sp. p. 4182; Gaz. vol. 166; p. 773.
Wagon-body lining. T. L. Steffen. No. 995,923; June 20; Sp. p. 3997; Gaz. vol. 167; p. 694.
Wagon, Bottom-dumping. M. L. Senderling. No. 997,861; July 11; Sp. p. 2698; Gaz. vol. 168; p. 463.
Wagon-bottom, Sectional. M. S. Bowdish. No. 988,543; Apr. 4; Sp. p. 539; Gaz. vol. 165; p. 86.
Wagon-box. J. F. O'Brien. No. 1,002,174; Aug. 29; Sp. p. 6323; Gaz. vol. 169; p. 1142.
Wagon-box and hay-rack remover. J. O. Johnson. No. 983,285; Feb. 7; Sp. p. 60; Gaz. vol. 163; p. 12.
Wagon-box bracket. F. J. Fardon. No. 986,913; Mar. 14; Sp. p. 2459; Gaz. vol. 164; p. 425.
Wagon-box clamp. W. C. Harp and J. W. Keeney. No. 989,906; Apr. 18; Sp. p. 3455; Gaz. vol. 165; p. 602.
Wagon-box fastener. H. E. Bart. No. 1,000,886; Aug. 15; Sp. p. 3596; Gaz. vol. 169; p. 646.
Wagon-box lifter or rack-jack. J. L. Pepper and A. V. Mikalson. No. 1,000,841; Aug. 15; Sp. p. 3502; Gaz. vol. 169; p. 630.
Wagon, Boy's. J. E. Yost. No. 1,006,708; Oct. 24; Sp. p. 4723; Gaz. vol. 171; p. 841.
Wagon-brake. J. W. Finch. No. 980,621; Jan. 3; Sp. p. 952; Gaz. vol. 162; p. 155.
Wagon-brake. J. F. Jackson and H. Tamm. No. 981,088; Jan. 10; Sp. p. 2087; Gaz. vol. 162; p. 344.
Wagon-brake. A. Wagner. No. 988,680; Apr. 4; Sp. p. 834; Gaz. vol. 165; p. 134.
Wagon-brake. H. B. Deakins. No. 990,117; Apr. 18; Sp. p. 3895; Gaz. vol. 165; p. 673.
Wagon-brake. L. Alexander and R. H. Lemmon. No. 998,825; July 25; Sp. p. 4858; Gaz. vol. 168; p. 877.
Wagon-brake. A. A. Barnes. No. 998,829; July 25; Sp. p. 4862; Gaz. vol. 168; p. 878.
Wagon-brake. J. Pilman. No. 1,001,163; Aug. 22; Sp. p. 4230; Gaz. vol. 169; p. 774.
Wagon-brake. J. B. Clanton and E. A. Beatty. No. 1,002,807; Sept. 5; Sp. p. 1381; Gaz. vol. 170; p. 210.
Wagon-brake. J. Y. Clack. No. 1,012,985; Dec. 26; Sp. p. 5783; Gaz. vol. 173; p. 1012.
Wagon-brake, Automatic. O. Syverson. No. 981,138; Jan. 10; Sp. p. 2201; Gaz. vol. 162; p. 362.
Wagon-brake, Automatic. R. Anliker. No. 985,121; Feb. 28; Sp. p. 3989; Gaz. vol. 163; p. 735.
Wagon-brake, Automatic. A. N. Hanna. No. 989,253; Apr. 11; Sp. p. 2031; Gaz. vol. 165; p. 348.
Wagon-brake, Automatic. T. W. McPeek. No. 994,647; June 6; Sp. p. 1151; Gaz. vol. 167; p. 188.
Wagon-brake, Automatic. J. Blaska. No. 999,952; Aug. 8; Sp. p. 1523; Gaz. vol. 169; p. 288.
Wagon-brake, Automatic. J. P. and J. P. Jensen and H. C. Petersen. No. 1,002,155; Aug. 29; Sp. p. 6282; Gaz. vol. 169; p. 1136.
Wagon, Chute coal-. J. E. Townsend. No. 998,724; July 25; Sp. p. 4639; Gaz. vol. 168; p. 842.
Wagon draw-bar. P. E. Holt. No. 1,012,551; Dec. 19; Sp. p. 4766; Gaz. vol. 173; p. 818.
Wagon, Dump-. E. Ledford. No. 980,976; Jan. 10; Sp. p. 1827; Gaz. vol. 162; p. 305.
Wagon, Dump-. R. Stuckwisch. No. 986,604; Mar. 14; Sp. p. 1802; Gaz. vol. 164; p. 319.
Wagon, Dump-. C. Howland. No. 990,876; May 2; Sp. p. 107; Gaz. vol. 166; p. 20.
Wagon, Dump-. R. M. White and E. T. Adams. No. 1,001,328; Aug. 22; Sp. p. 4586; Gaz. vol. 169; p. 830.
Wagon, Dump-. W. A. Underhill. No. 1,006,151; Oct. 17; Sp. p. 3478; Gaz. vol. 171; p. 617.
Wagon, Dump-. J. J. Brown. No. 1,007,332; Oct. 31; Sp. p. 6118; Gaz. vol. 171; p. 1115.
Wagon-dump. J. H. Gilman. No. 989,961; Apr. 18; Sp. p. 3584; Gaz. vol. 165; p. 621.
Wagon-dump. C. L. Aygarn. No. 1,005,497; Oct. 10; Sp. p. 2023; Gaz. vol. 171; p. 355.
Wagon, Dumping-. J. Heberling. No. 981,419; Jan. 10; Sp. p. 2857; Gaz. vol. 162; p. 461.
Wagon, Dumping-. C. Lynch. No. 986,582; Mar. 14; Sp. p. 1754; Gaz. vol. 164; p. 310.
Wagon, Dumping-. E. Cronenwett and F. A. Smith. No. 990,849; May 2; Sp. p. 47; Gaz. vol. 166; p. 11.
Wagon, Dumping-. W. H. Scott. No. 996,730; July 4; Sp. p. 260; Gaz. vol. 168; p. 45.
Wagon, Dumping-. E. B. Symons. No. 1,001,706; Aug. 29; Sp. p. 5359; Gaz. vol. 169; p. 988.
Wagon, Dumping-. H. S. Long. No. 1,008,166; Nov. 7; Sp. p. 1098; Gaz. vol. 172; p. 180.
Wagon equalizer, Dumping-. J. T. Snoddy. No. 1,008,380; Nov. 14; Sp. p. 1666; Gaz. vol. 172; p. 296.
Wagon hay-rack. G. G. Ketcham. No. 992,778; May 23; Sp. p. 4161; Gaz. vol. 166; p. 769.
Wagon-hitch. E. V. Lawrence. No. 1,010,926; Dec. 5; Sp. p. 1173; Gaz. vol. 173; p. 184.
Wagon-jack. F. S. Chord. No. 1,003,585; Sept. 19; Sp. p. 3057; Gaz. vol. 170; p. 551.
Wagon-jack. W. T. Ellett. No. 1,004,393; Sept. 26; Sp. p. 4850; Gaz. vol. 170; p. 856.
Wagon-jack. A. A. Coon. No. 1,012,818; Dec. 26; Sp. p. 5387; Gaz. vol. 173; p. 956.
Wagon lifting device, Dumping-. C. Pay. No. 1,000,622; Aug. 15; Sp. p. 3049; Gaz. vol. 169; p. 554.
Wagon-loader. R. G. Smith. No. 1,012,734; Dec. 26; Sp. p. 5176; Gaz. vol. 173; p. 927.
Wagon-loader, Automatic. W. E. Potts. No. 1,000,844; Aug. 15; Sp. p. 3508; Gaz. vol. 169; p. 631.
Wagon-loading attachment. W. Hall and J. Wentzer. No. 999,163; July 25; Sp. p. 5584; Gaz. vol. 168; p. 993.
Wagon-loading device. R. Pedersen. No. 992,801; May 23; Sp. p. 4212; Gaz. vol. 166; p. 778.
Wagon-loading screen. W. P. Myer. No. 1,011,889; Dec. 12; Sp. p. 3343; Gaz. vol. 173; p. 555.
Wagon, Log-. W. P. Dunlap. No. 990,241; Apr. 25; Sp. p. 4196; Gaz. vol. 165; p. 748.
Wagon or truck bolster. R. J. Woodward. No. 990,793; Apr. 25; Sp. p. 5455; Gaz. vol. 165; p. 939.
Wagon-rack. J. Welfle and F. Schuler. No. 983,333; Feb. 7; Sp. p. 165; Gaz. vol. 163; p. 29.
Wagon rack, Dumping-. W. W. Ditmer. No. 987,121; Mar. 21; Sp. p. 2836; Gaz. vol. 164; p. 522.
Wagon-rack standard. O. H. Davidter. No. 1,000,787; Aug. 15; Sp. p. 3399; Gaz. vol. 169; p. 610.
Wagon-reach. J. Spaulding. No. 988,393; Apr. 4; Sp. p. 228; Gaz. vol. 165; p. 37.
Wagon running-gear. J. R. McAlister. No. 987,586; Mar. 21; Sp. p. 3836; Gaz. vol. 164; p. 684.
Wagon running-gear. F. H. Weaver. No. 1,005,909; Oct. 17; Sp. p. 2934; Gaz. vol. 171; p. 531.
Wagon-seat. A. J. Wood. No. 986,885; Mar. 14; Sp. p. 2405; Gaz. vol. 164; p. 416.
Wagon side-board. C. M. Haeske. No. 990,197; Apr. 18; Sp. p. 4072; Gaz. vol. 165; p. 700.
Wagon side, Removable and adjustable. W. H. Janvrin. No. 996,342; June 27; Sp. p. 4950; Gaz. vol. 167; p. 871.
Wagon-stake. H. and H. Wesle. No. 992,620; May 16; Sp. p. 3852; Gaz. vol. 166; p. 686.

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Wagon steering and running gear. A. T. Newell. No. 992,517; May 16; Sp. p. 3629; Gaz. vol. 166; p. 651.
Wagon stop-board. R. E. Lawler and H. L. Everhart. No. 991,792; May 9; Sp. p. 2051; Gaz. vol. 166; p. 370.
Waist adjuster, Garment-. A. K. Hurst. No. 1,012,083; Dec. 19; Sp. p. 3804; Gaz. vol. 173; p. 659.
Waist and skirt supporter. E. J. McKinney. No. 987,900; Mar. 28; Sp. p. 4549; Gaz. vol. 164; p. 820.
Walking-beam. J. W. Lauer. No. 1,003,758; Sept. 19; Sp. p. 3428; Gaz. vol. 170; p. 611.
Walking-beam. R. V. Longtine. No. 1,009,537; Nov. 21; Sp. p. 4268; Gaz. vol. 172; p. 735.
Walking-beam, Trussed. G. E. Smith. No. 992,389; May 16; Sp. p. 3371; Gaz. vol. 166; p. 607.
Wall construction. W. H. Dean. No. 983,214; Jan. 31; Sp. p. 6629; Gaz. vol. 162; p. 1153.
Wall construction. J. Davey. No. 985,663; Feb. 28; Sp. p. 5212; Gaz. vol. 163; p. 921.
Wall construction. R. Tinsley. No. 993,127; May 23; Sp. p. 4936; Gaz. vol. 166; p. 893.
Wall construction. O. K. Harry. No. 999,221; Aug. 1; Sp. p. 60; Gaz. vol. 169; p. 12.
Wall construction. F. M. Sawyer. No. 1,004,694; Oct. 3; Sp. p. 308; Gaz. vol. 171; p. 53.
Wall construction. F. M. Sawyer. No. 1,009,441; Nov. 21; Sp. p. 4079; Gaz. vol. 172; p. 703.
Wall construction. F. E. Kling. No. 1,009,754; Nov. 28; Sp. p. 4706; Gaz. vol. 172; p. 853.
Wall construction, Sea-. G. W. Lambert. No. 1,002,161; Aug. 29; Sp. p. 6290; Gaz. vol. 169; p. 1138.
Wall-coping. E. M. Campfield. No. 1,004,145; Sept. 26; Sp. p. 4361; Gaz. vol. 170; p. 773.
Wall-covering, Plaster-support for. F. L. Kane. No. 1,003,754; Sept. 19; Sp. p. 3421; Gaz. vol. 170; p. 610.
Wall-coverings, Composition of matter for forming plastic. H. P. Hermann. No. 1,007,199; Oct. 31; Sp. p. 5850; Gaz. vol. 171; p. 1068.
Wall for silos and the like. E. F. Wiederholdt. No. 992,835; May 23; Sp. p. 4290; Gaz. vol. 166; p. 791.
Wall-grip. E. Whitney. No. 1,007,759; Nov. 7; Sp. p. 239; Gaz. vol. 172; p. 39.
Wall, Outside. R. Rollinger. No. 984,517; Feb. 14; Sp. p. 2729; Gaz. vol. 163; p. 457.
Wall plug or socket. A. D. Caywood. No. 1,000,715; Aug. 15; Sp. p. 3239; Gaz. vol. 169; p. 585.
Wall-rack. M. Lowenstein. No. 983,734; Feb. 7; Sp. p. 1020; Gaz. vol. 163; p. 163.
Wall-register. F. Hoehn and A. Gerdum. No. 1,004,026; Sept. 26; Sp. p. 4045; Gaz. vol. 170; p. 730.
Wall, Retaining-. M. M. Upson. No. 982,698; Jan. 24; Sp. p. 5526; Gaz. vol. 162; p. 952.
Wall-seat wall-bed. A. L. Haley. No. 982,669; Jan. 24; Sp. p. 5465; Gaz. vol. 162; p. 943.
Wall with metallic lathing. P. Stolte. No. 1,004,100; Sept. 26; Sp. p. 4250; Gaz. vol. 170; p. 757.
Walls and ceilings of buildings, Structural frame for the support of the lath and plaster of. D. Dowd. No. 1,004,859; Oct. 3; Sp. p. 678; Gaz. vol. 171; p. 110.
Walls, Beading and wainscoting of. R. Steiner. No. 997,214; July 4; Sp. p. 1299; Gaz. vol. 168; p. 211.
Walls, Device for cutting slits in brick. H. Geyer. No. 984,132; Feb. 14; Sp. p. 1905; Gaz. vol. 163; p. 327.
Walls, Metallic reinforcement for. W. L. Collins. No. 1,011,583; Dec. 12; Sp. p. 2699; Gaz. vol. 173; p. 452.
Walls of tunnels, shafts, and the like, Means for building and reinforcing the. T. M. McAlpine. No. 1,004,288; Sept. 26; Sp. p. 4639; Gaz. vol. 170; p. 821.
Walls, Post and lath construction for. H. R. Myers. No. 982,291; Jan. 24; Sp. p. 4698; Gaz. vol. 162; p. 812.
Walled sheet-metal structure. P. M. Wege. No. 993,484; May 30; Sp. p. 5696; Gaz. vol. 166; p. 1042.
Walled sheet-metal structure. P. M. Wege. No. 993,627; May 30; Sp. p. 6008; Gaz. vol. 166; p. 1092.
Wardrobe for berths, Dust-proof collapsible. H. O. Crippen. No. 1,003,710; Sept. 19; Sp. p. 3332; Gaz. vol. 170; p. 596.
Wardrobe-tree. A. Frederickson. No. 992,764; May 23; Sp. p. 4136; Gaz. vol. 166; p. 765.
Wardrobes, Garment-support for. J. T. Batts. No. 992,105; May 9; Sp. p. 2670; Gaz. vol. 166; p. 475.
Wardrobes, Movable garment-support for. A. Vanderveld. No. 1,005,374; Oct. 10; Sp. p. 1756; Gaz. vol. 171; p. 313.
Ware drier, Clay-. H. Heuss and G. C. F. Vater. No. 1,007,565; Oct. 31; Sp. p. 6631; Gaz. vol. 171; p. 1195.
Warfare, Device for use in connection with naval. G. E. Elia. No. 984,420; Feb. 14; Sp. p. 2508; Gaz. vol. 163; p. 425.
Warfare, Device for use in connection with naval. G. E. Elia. No. 984,515; Feb. 14; Sp. p. 2723; Gaz. vol. 163; p. 456.
Warm-air register. J. J. and S. P. Burgess. No. 989,329; Apr. 11; Sp. p. 2204; Gaz. vol. 165; p. 374.
Warning-signal. C. F. Jenkins. No. 983,236; Jan. 31; Sp. p. 6684; Gaz. vol. 162; p. 1161.
Warp-frames, Beam-supporting attachment for. F. M. Morton. No. 1,010,298; Nov. 28; Sp. p. 5817; Gaz. vol. 172; p. 1036.
Warp-guide. G. F. Slipp. No. 1,011,507; Dec. 12; Sp. p. 2488; Gaz. vol. 173; p. 424.
Warp-leasing machine. G. Hiller. No. 983,995; Feb. 14; Sp. p. 1626; Gaz. vol. 163; p. 282.
Warp stop mechanism, Shipper-releasing mechanism for electrically-controlled. C. D. Lanning. No. 1,000,418; Aug. 15; Sp. p. 2574; Gaz. vol. 169; p. 479.
Warp stop-motion. J. Regan. No. 988,387; Apr. 4; Sp. p. 214; Gaz. vol. 165; p. 35.
Warp stop-motion. A. Kean. No. 1,006,386; Oct. 17; Sp. p. 4011; Gaz. vol. 171; p. 699.
Warp stop-motion. A. Kean. No. 1,013,021; Dec. 26; Sp. p. 5856; Gaz. vol. 173; p. 1024.
Warp stop-motions, Insertible detector for. G. Freudenthal. No. 1,001,750; Aug. 29; Sp. p. 5452; Gaz. vol. 169; p. 1003.
Warpers and slashers, Comb for. A. E. Rhoades. No. 984,107; Feb. 14; Sp. p. 1857; Gaz. vol. 163; p. 319.
Washer: *See* Bottle-washer; Clothes-washer; Dish-washer; Eyeglass-washer; Gas-washer; Lock-washer; Nut-locking washer; Ore-washer; Overhead washer; Photographic-print washer; Smoke-washer; Spring-washer; Tumbler-washer; Window-washer; Wool-washer.
Washer-making machine. N. W. Hunt. No. 1,011,434; Dec. 12; Sp. p. 2316; Gaz. vol. 173; p. 396.
Washing and drying machine. H. Schaub. No. 1,006,410; Oct. 17; Sp. p. 4059; Gaz. vol. 171; p. 707.
Washing clothes, renovating feathers, canning, &c., Machine for. J. T. McNorton and J. S. Stanley. No. 982,385; Jan. 24; Sp. p. 4885; Gaz. vol. 162; p. 846.
Washing device. W. D. Cox. No. 1,009,830; Nov. 28; Sp. p. 4869; Gaz. vol. 172; p. 879.
Washing device, Clothes-. C. C. Gridley. No. 999,218; Aug. 1; Sp. p. 54; Gaz. vol. 169; p. 11.
Washing-machine. J. Lichetti. No. 980,299; Jan. 3; Sp. p. 224; Gaz. vol. 162; p. 43.
Washing-machine. O. G. Pfeiffer. No. 980,558; Jan. 3; Sp. p. 830; Gaz. vol. 162; p. 134.
Washing-machine. J. Brudy. No. 980,757; Jan. 3; Sp. p. 1239; Gaz. vol. 162; p. 198.
Washing-machine. H. Symonds. No. 981,715; Jan. 17; Sp. p. 3438; Gaz. vol. 162; p. 582.
Washing-machine. A. B. Smith. No. 982,889; Jan. 31; Sp. p. 5961; Gaz. vol. 162; p. 1045.
Washing-machine. H. S. Judd and H. Pletsch. No. 983,286; Feb. 7; Sp. p. 61; Gaz. vol. 163; p. 12.
Washing-machine. G. C. Dunham. No. 983,611; Feb. 7; Sp. p. 768; Gaz. vol. 163; p. 121.
Washing-machine. T. Wright. No. 985,315; Feb. 28; Sp. p. 4459; Gaz. vol. 163; p. 802.
Washing-machine. J. W. Vines. No. 987,839; Mar. 28; Sp. p. 4395; Gaz. vol. 164; p. 799.
Washing-machine. W. Webber. No. 987,931; Mar. 28; Sp. p. 4634; Gaz. vol. 164; p. 831.
Washing-machine. H. L. Simmons. No. 989,070; Apr. 11; Sp. p. 1645; Gaz. vol. 165; p. 286.
Washing-machine. J. A. Skaer. No. 991,032; May 2; Sp. p. 427; Gaz. vol. 166; p. 73.
Washing-machine. A. M. Burnham. No. 991,946; May 9; Sp. p. 2382; Gaz. vol. 166; p. 423.
Washing-machine. J. R. Carter. No. 991,952; May 9; Sp. p. 2393; Gaz. vol. 166; p. 425.
Washing-machine. F. V. Pepper. No. 992,048; May 9; Sp. p. 2565; Gaz. vol. 166; p. 456.
Washing-machine. J. Vierling. No. 994,548; June 6; Sp. p. 929; Gaz. vol. 167; p. 154.
Washing-machine. J. C. Ross. No. 994,954; June 13; Sp. p. 1898; Gaz. vol. 167; p. 334.
Washing-machine. W. J. Thompson. No. 995,737; June 20; Sp. p. 3591; Gaz. vol. 167; p. 630.
Washing-machine. J. L. Denton. No. 997,760; July 11; Sp. p. 2456; Gaz. vol. 168; p. 429.
Washing-machine. D. C. Hof. No. 998,901; July 25; Sp. p. 5039; Gaz. vol. 168; p. 905.
Washing-machine. J. G. Steenson. No. 999,130; July 25; Sp. p. 5527; Gaz. vol. 168; p. 982.
Washing-machine. W. H. Higgins. No. 999,647; Aug. 1; Sp. p. 884; Gaz. vol. 169; p. 154.
Washing-machine. B. J. and W. L. Harrell. No. 1,000,802; Aug. 15; Sp. p. 3427; Gaz. vol. 169; p. 616.
Washing-machine. F. Pohlmann. No. 1,002,929; Sept. 12; Sp. p. 1687; Gaz. vol. 170; p. 291.
Washing-machine. H. L. Freeman. No. 1,003,177; Sept. 12; Sp. p. 2189; Gaz. vol. 170; p. 376.
Washing-machine. S. F. O'Connor. No. 1,004,065; Sept. 26; Sp. p. 4142; Gaz. vol. 170; p. 744.
Washing-machine. P. F. Berkey. No. 1,004,527; Sept. 26; Sp. p. 5122; Gaz. vol. 170; p. 902.
Washing-machine. J. B. Givens. No. 1,005,112; Oct. 3; Sp. p. 1154; Gaz. vol. 171; p. 195.
Washing-machine. F. T. Flinchbaugh. No. 1,006,073; Oct. 17; Sp. p. 3292; Gaz. vol. 171; p. 588.
Washing-machine. J. V. Kranebiel. No. 1,006,231; Oct. 17; Sp. p. 3665; Gaz. vol. 171; p. 646.
Washing-machine. E. Kohan. No. 1,007,450; Oct. 31; Sp. p. 6368; Gaz. vol. 171; p. 1156.
Washing-machine. T. H. Mace. No. 1,007,585; Oct. 31; Sp. p. 6675; Gaz. vol. 171; p. 1202.
Washing-machine. G. E. Hall. No. 1,008,458; Nov. 14; Sp. p. 1898; Gaz. vol. 172; p. 324.
Washing-machine. G. W. Dungan. No. 1,009,728; Nov. 28; Sp. p. 4646; Gaz. vol. 172; p. 844.

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Washing-machine. A. E. Kenney. No. 1,010,436; Dec. 5; Sp. p. 65; Gaz. vol. 173; p. 13.
Washing-machine. J. M. Merritt. No. 1,012,407; Dec. 19; Sp. p. 4486; Gaz. vol. 173; p. 768.
Washing-machine. G. Sampson. No. 1,012,718; Dec. 26; Sp. p. 5143; Gaz. vol. 173; p. 922.
Washing-machine and clothes-boiler, Combined. J. Bell. No. 1,010,570; Dec. 5; Sp. p. 377; Gaz. vol. 173; p. 59.
Washing-machine closure. H. S. Judd. No. 983,287; Feb. 7; Sp. p. 63; Gaz. vol. 163; p. 12.
Washing machine, Clothes-. B. V. Crumrine. No. 1,003,988; Sept. 26; Sp. p. 3960; Gaz. vol. 170; p. 717.
Washing machine, Clothes-. W. A. Cook. No. 1,011,751; Dec. 12; Sp. p. 3040; Gaz. vol. 173; p. 508.
Washing-machine driving-gear mechanism. T. W. Chapman. No. 1,011,577; Dec. 12; Sp. p. 2679; Gaz. vol. 173; p. 449.
Washing-machine-driving mechanism. P. W. Peters. No. 1,008,194; Nov. 7; Sp. p. 1168; Gaz. vol. 172; p. 192.
Washing-machine gearing. C. J. Marth. No. 984,831; Feb. 21; Sp. p. 3422; Gaz. vol. 163; p. 604.
Washing-machine gearing. N. Hardin. No. 986,283; Mar. 7; Sp. p. 1095; Gaz. vol. 164; p. 176.
Washing-machine gearing. W. J. Schoonover. No. 996,148; June 27; Sp. p. 4456; Gaz. vol. 167; p. 806.
Washing-machine gearing. J. E. Rempe. No. 997,851; July 11; Sp. p. 2677; Gaz. vol. 168; p. 459.
Washing-machine gearing. O. H. Watkins. No. 998,728; July 25; Sp. p. 4658; Gaz. vol. 168; p. 843.
Washing-machine gearing. C. J. Marth. No. 1,006,860; Oct. 24; Sp. p. 5082; Gaz. vol. 171; p. 896.
Washing-machine gearing. R. B. Goodrich. No. 1,008,537; Nov. 14; Sp. p. 2059; Gaz. vol. 172; p. 351.
Washing-machine-operating means. W. L. Cummer. No. 986,805; Mar. 14; Sp. p. 2225; Gaz. vol. 164; p. 386.
Washing-machine-operating means. W. H. Voss. No. 1,008,502; Nov. 14; Sp. p. 1980; Gaz. vol. 172; p. 339.
Washing-machine-operating mechanism. G. N. Meves. No. 987,389; Mar. 21; Sp. p. 3447; Gaz. vol. 164; p. 617.
Washing-machines, Automatic controlling means for. G. Wilson. No. 1,005,093; Oct. 3; Sp. p. 1113; Gaz. vol. 171; p. 188.
Washing or dyeing cops or similar articles, Apparatus for. E. Herzog. No. 999,499; Aug. 1; Sp. p. 600; Gaz. vol. 169; p. 104.
Washbasin, Adjustable. D. H. Donachy. No. 991,609; May 9; Sp. p. 1688; Gaz. vol. 166; p. 310.
Washbasins or the like, Plug-operated means for. H. A. Grant. No. 991,974; May 9; Sp. p. 2434; Gaz. vol. 166; p. 433.
Washbasins, Outlet and strainer for. J. Ruckstinat. No. 1,009,862; Nov. 28; Sp. p. 4926; Gaz. vol. 172; p. 890.
Washbench. F. Chaussee. No. 995,844; June 20; Sp. p. 3837; Gaz. vol. 167; p. 667.
Washboard. J. G. Brackins. No. 997,111; July 4; Sp. p. 1085; Gaz. vol. 168; p. 176.
Washboard. G. R. Prescott. No. 999,867; Aug. 8; Sp. p. 1338; Gaz. vol. 169; p. 258.
Washboard. C. Christenson. No. 1,000,990; Aug. 22; Sp. p. 3856; Gaz. vol. 169; p. 715.
Washboard attachment. J. Gavelack. No. 992,187; May 16; Sp. p. 2874; Gaz. vol. 166; p. 535.
Washboard attachment. E. A. Rowe. No. 1,002,456; Sept. 5; Sp. p. 626; Gaz. vol. 170; p. 90.
Washboard, Self-soaping. J. R. Grumman. No. 1,005,704; Oct. 10; Sp. p. 2495; Gaz. vol. 171; p. 428.
Washboard self-soaping device. W. N. Thomas. No. 1,009,601; Nov. 21; Sp. p. 4389; Gaz. vol. 172; p. 756.
Washboiler. G. A. Lamar. No. 995,158; June 13; Sp. p. 2323; Gaz. vol. 167; p. 402.
Washboiler. G. W. Connor. No. 999,096; July 25; Sp. p. 5469; Gaz. vol. 168; p. 973.
Washboiler attachment. P. Belodeau and L. Trudeau. No. 982,565; Jan. 24; Sp. p. 5260; Gaz. vol. 162; p. 907.
Washboiler attachment. L. R. Quinn and A. R. Pritchard. No. 992,247; May 16; Sp. p. 3048; Gaz. vol. 166; p. 556.
Washtub attachment. W. J. Minns. No. 990,370; Apr. 25; Sp. p. 4482; Gaz. vol. 165; p. 792.
Washtub attachment. W. J. Minns. No. 990,371; Apr. 25; Sp. p. 4484; Gaz. vol. 165; p. 793.
Washtub attachment. W. J. Minns. No. 990,372; Apr. 25; Sp. p. 4486; Gaz. vol. 165; p. 793.
Washtub attachment. W. J. Kibby. No. 990,442; Apr. 25; Sp. p. 4667; Gaz. vol. 165; p. 820.
Washtub-cover. F. H. Trow. No. 993,329; May 23; Sp. p. 5340; Gaz. vol. 166; p. 957.
Washtubs, &c., Support for. V. J. Van Horn. No. 1,012,302; Dec. 19; Sp. p. 4282; Gaz. vol. 173; p. 734.
Waste-burner. C. A. Raggio. No. 989,417; Apr. 11; Sp. p. 2385; Gaz. vol. 165; p. 403.
Waste-burner. T. Doolan. No. 1,011,762; Dec. 12; Sp. p. 3058; Gaz. vol. 173; p. 511.
Waste-can. W. Raster. No. 999,336; Aug. 1; Sp. p. 273; Gaz. vol. 169; p. 50.
Waste-collector. R. H. Cook. No. 1,002,226; Sept. 5; Sp. p. 76; Gaz. vol. 170; p. 9.
Waste-fitting. J. B. Wise. No. 1,008,400; Nov. 14; Sp. p. 1730; Gaz. vol. 172; p. 304.
Waste-supporter. F. G. Hepburn. No. 991,302; May 2; Sp. p. 1021; Gaz. vol. 166; p. 171.
Watch. I. Gold. No. 985,739; Feb. 28; Sp. p. 5408; Gaz. vol. 163; p. 948.
Watch. W. E. Porter. No. 996,727; July 4; Sp. p. 256; Gaz. vol. 168; p. 45.
Watch-balance. J. A. Petta. No. 988,139; Mar. 28; Sp. p. 5080; Gaz. vol. 164; p. 901.
Watch-barrel. C. E. De Long. No. 1,008,793; Nov. 14; Sp. p. 2635; Gaz. vol. 172; p. 441.
Watch-charm. E. Fuchs. No. 992,648; May 16; Sp. p. 3901; Gaz. vol. 166; p. 696.
Watch-charm. A. Simon. No. 993,801; May 30; Sp. p. 6394; Gaz. vol. 166; p. 1153.
Watch-charm. B. Z. Friedman. No. 1,007,193; Oct. 31; Sp. p. 5842; Gaz. vol. 171; p. 1066.
Watch, Chronograph-. E. Hart. No. 999,498; Aug. 1; Sp. p. 599; Gaz. vol. 169; p. 104.
Watch-dial fastener. J. Haley. No. 995,533; June 20; Sp. p. 3132; Gaz. vol. 167; p. 557.
Watch-fob. A. A. McRae. No. 981,782; Jan. 17; Sp. p. 3573; Gaz. vol. 162; p. 606.
Watch-fob. H. O. Beck. No. 998,452; July 18; Sp. p. 4025; Gaz. vol. 168; p. 715.
Watch-fob. C. L. Hille. No. 1,010,911; Dec. 5; Sp. p. 1140; Gaz. vol. 173; p. 179.
Watch-glass grinder. E. R. Matters. No. 1,010,506; Dec. 5; Sp. p. 247; Gaz. vol. 173; p. 39.
Watch-holder. H. L. Lang and G. Kennard. No. 994,262; June 6; Sp. p. 331; Gaz. vol. 167; p. 57.
Watch-key. J. H. Dunaway. No. 1,004,755; Oct. 3; Sp. p. 448; Gaz. vol. 171; p. 74.
Watch-movements, Pallet-end-stone cap for. W. B. Mehl. No. 981,667; Jan. 17; Sp. p. 3333; Gaz. vol. 162; p. 566.
Watch-pendant. J. McGrevy. No. 1,007,128; Oct. 31; Sp. p. 5684; Gaz. vol. 171; p. 1042.
Watch-pendent setting. G. F. Johnson. No. 1,007,292; Oct. 31; Sp. p. 6032; Gaz. vol. 171; p. 1100.
Watch-protection cover. J. M. White. No. 981,905; Jan. 17; Sp. p. 3869; Gaz. vol. 162; p. 650.
Watch-retainer, Safety. F. M. Franklin. No. 987,291; Mar. 21; Sp. p. 3238; Gaz. vol. 164; p. 584.
Watch safety appliance. A. K. Hampel. No. 1,011,951; Dec. 19; Sp. p. 3490; Gaz. vol. 173; p. 611.
Watch safety device. A. Marcante. No. 992,368; May 16; Sp. p. 3330; Gaz. vol. 166; p. 599.
Watch stem winder and pendent set. E. A. Cochran. No. 1,007,430; Oct. 31; Sp. p. 6330; Gaz. vol. 171; p. 1150.
Watch winding-indicator. W. H. Ebelhare. No. 992,118; May 9; Sp. p. 2713; Gaz. vol. 166; p. 480.
Watches, &c., Compensation balance-wheel for. J. Chaoul. No. 982,479; Jan. 24; Sp. p. 5099; Gaz. vol. 162; p. 879.
Watchcase. F. Mink. No. 998,792; July 25; Sp. p. 4791; Gaz. vol. 168; p. 866.
Watchcase. H. W. Matalene. No. 1,006,965; Oct. 24; Sp. p. 5298; Gaz. vol. 171; p. 931.
Watchmaker's appliance. A. Lepre. No. 989,714; Apr. 18; Sp. p. 3046; Gaz. vol. 165; p. 536.
Watchmaker's peg-wood sharpener. C. P. Eisenmann. No. 992,762; May 23; Sp. p. 4132; Gaz. vol. 166; p. 764.
Watchmaker's tool F. W. Bechberger. No. 983,018; Jan. 31; Sp. p. 6252; Gaz. vol. 162; p. 1088.
Watchmaker's tool. E. Campbell. No. 1,001,248; Aug. 22; Sp. p. 4403; Gaz. vol. 169; p. 801.
Watchmen, Electrical system for the supervision of. A. Goldstein. No. 982,052; Jan. 17; Sp. p. 4200; Gaz. vol. 162; p. 700.
Watchmen, Electrical system for the supervision of. A. Goldstein. No. 990,434; Apr. 25; Sp. p. 4650; Gaz. vol. 165; p. 818.
Water and gas meter. J. J. Mulhall. No. 995,278; June 13; Sp. p. 2545; Gaz. vol. 167; p. 441.
Water and sewage purification. C. R. Darnall. No. 1,007,542; Oct. 31; Sp. p. 6568; Gaz. vol. 171; p. 1187.
Water and sewage, Purifying. C. R. Darnall. No. 1,007,647; Oct. 31; Sp. p. 6799; Gaz. vol. 171; p. 1222.
Water and steam coupling. J. M. Reiter and H. L. Dout. No. 987,490; Mar. 21; Sp. p. 3656; Gaz. vol. 164; p. 651.
Water-bag. E. B. Thorning. No. 994,287; June 6; Sp. p. 381; Gaz. vol. 167; p. 65.
Water-bag. J. A. Murray. No. 998,977; July 25; Sp. p. 5229; Gaz. vol. 168; p. 932.
Water-boiler. W. H. Butcher. No. 983,680; Feb. 7; Sp. p. 922; Gaz. vol. 163; p. 146.
Water-boiler. J. T. Ketchum. No. 992,779; May 23; Sp. p. 4164; Gaz. vol. 166; p. 770.
Water by electricity, Apparatus for heating. C. Kratt. No. 1,001,654; Aug. 29; Sp. p. 5227; Gaz. vol. 169; p. 969.
Water by ozone, Apparatus for purifying. C. S. Bradley. No. 996,560; June 27; Sp. p. 5395; Gaz. vol. 167; p. 944.
Water-carbonating apparatus. T. H. Irwin. No. 1,007,701; Nov. 7; Sp. p. 109; Gaz. vol. 172; p. 17.
Water-carrier. J. C. Trulove. No. 989,449; Apr. 11; Sp. p. 2444; Gaz. vol. 165; p. 413.
Water-carrier. I. E. Offutt. No. 1,000,541; Aug. 15; Sp. p. 2840; Gaz. vol. 169; p. 523.
Water-check. J. E. Ohlson. No. 993,272; May 23; Sp. p. 5225; Gaz. vol. 166; p. 937.
Water-circulating systems, Device for filling. G. E. Hulse. No. 993,376; May 30; Sp. p. 5463; Gaz. vol. 166; p. 1006.

Alphabetical list of inventions—Continued.

Water clearing and filtering apparatus, Waste-. F. Schneider. No. 992,811; May 23; Sp. p. 4239; Gaz. vol. 166; p. 782.
Water-closet. I. C. Miller and D. F. Hott. No. 986,486; Mar. 14; Sp. p. 1557; Gaz. vol. 164; p. 278.
Water-closet. J. Morrison. No. 986,586; Mar. 14; Sp. p. 1762; Gaz. vol. 164; p. 312.
Water-closet. E. G. Watrous. No. 1,000,565; Aug. 15; Sp. p. 2903; Gaz. vol. 169; p. 532.
Water-closet. I. C. Miller and D. F. Hott. No. 1,001,973; Aug. 29; Sp. p. 5947; Gaz. vol. 169; p. 1078.
Water-closet. F. A. Schossow. No. 1,008,737; Nov. 14; Sp. p. 2511; Gaz. vol. 172; p. 423.
Water-closet. J. Clifford and J. H. Gavin. No. 1,011,159; Dec. 12; Sp. p. 1703; Gaz. vol. 173; p. 299.
Water-closet and other bowls, Device for cleaning. J. Anderson. No. 981,354; Jan. 10; Sp. p. 2709; Gaz. vol. 162; p. 439.
Water-closet bend. H. D. Bartlett and W. F. J. Lutz. No. 980,860; Jan. 3; Sp. p. 1458; Gaz. vol. 162; p. 234.
Water-closet bowl. E. J. Bloom. No. 1,008,112; Nov. 7; Sp. p. 1000; Gaz. vol. 172; p. 161.
Water-closet-controlling apparatus. J. F. Mason. No. 1,007,715; Nov. 7; Sp. p. 139; Gaz. vol. 172; p. 23.
Water-closet fixture. T. F. Ward. No. 1,006,812; Oct. 24; Sp. p. 4971; Gaz. vol. 171; p. 880.
Water-closet fixture. W. J. Frost. No. 1,010,610; Dec. 5; Sp. p. 473; Gaz. vol. 173; p. 74.
Water-closet hood-vent. M. L. Dollar. No. 990,807; Apr. 25; Sp. p. 5478; Gaz. vol. 165; p. 943.
Water-closet sanitary fixture. D. and H. H. Goldman. No. 981,636; Jan. 17; Sp. p. 3281; Gaz. vol. 162; p. 557.
Water-closet seat. W. Rosenberger. No. 1,003,802; Sept. 19; Sp. p. 3515; Gaz. vol. 170; p. 625.
Water-closet seat. M. H. Paulus. No. 1,008,055; Nov. 7; Sp. p. 879; Gaz. vol. 172; p. 141.
Water-closet, Siphonic. A. W. Cooksey. No. 1,008,787; Nov. 14; Sp. p. 2624; Gaz. vol. 172; p. 440.
Water-closet tank. C. A. Wulf. No. 983,968; Feb. 14; Sp. p. 1548; Gaz. vol. 163; p. 272.
Water-closet tanks, Supply-valve float of. J. B. Vogelbach. No. 984,117; Feb. 14; Sp. p. 1877; Gaz. vol. 163; p. 322.
Water-closet-ventilating system. K. S. Blanchard. No. 996,906; July 4; Sp. p. 640; Gaz. vol. 168; p. 104.
Water-closets, Seat-operated automatic flushing-valve for. W. A. Henn. No. 997,448; July 11; Sp. p. 1763; Gaz. vol. 168; p. 320.
Water-column. A. Van Brunt. No. 1,001,099; Aug. 22; Sp. p. 4117; Gaz. vol. 169; p. 754.
Water-controller, Automatic. W. E. Miller. No. 990,153; Apr. 18; Sp. p. 3972; Gaz. vol. 165; p. 685.
Water-cooler. A. N. Rose. (Reissue.) No. 13,286; Aug. 22; Sp. p. 5120; Gaz. vol. 169; p. 920.
Water-cooler. L. R. Steel. No. 1,004,490; Sept. 26; Sp. p. 5054; Gaz. vol. 170; p. 890.
Water-cooler. L. R. Steel. No. 1,004,927; Oct. 3; Sp. p. 825; Gaz. vol. 171; p. 134.
Water-cooler. P. P. Adolph. No. 1,005,588; Oct. 10; Sp. p. 2257; Gaz. vol. 171; p. 388.
Water-cooler. F. Conly and W. A. Hawkins. No. 1,005,809; Oct. 17; Sp. p. 2709; Gaz. vol. 171; p. 495.
Water cooler and filter, Sanitary. T. A. Stevens. No. 992,921; May 23; Sp. p. 4485; Gaz. vol. 166; p. 822.
Water-cooler, Inverted-bottle. W. E. Patnaude. No. 1,009,437; Nov. 21; Sp. p. 4072; Gaz. vol. 172; p. 702.
Water-cooling apparatus. I. J. Hollensbe. No. 1,010,495; Dec. 5; Sp. p. 211; Gaz. vol. 173; p. 35.
Water-cooling device. R. Y. Boyer and J. P. Caldwell. No. 998,460; July 18; Sp. p. 4046; Gaz. vol. 168; p. 717.
Water-decantation system. J. Daime. No. 1,005,419; Oct. 10; Sp. p. 1840; Gaz. vol. 171; p. 327.
Water-delivering apparatus. J. R. Lamb and J. Davies. No. 1,008,830; Nov. 14; Sp. p. 2703; Gaz. vol. 172; p. 454.
Water-distributer. W. H. Heidmann No. 1,005,206; Oct. 10; Sp. p. 1362; Gaz. vol. 171; p. 251.
Water-distributing system. H. E. Martin. No. 987,475; Mar. 21; Sp. p. 3627; Gaz. vol. 164; p. 646.
Water-economizer. C. De Shon. No. 987,616; Mar. 21; Sp. p. 3891; Gaz. vol. 164; p. 693.
Water-elevating apparatus. N. H. Freeman. No. 992,711; May 16; Sp. p. 4016; Gaz. vol. 166; p. 717.
Water-elevating apparatus. C. F. Young and L. A. Berger. No. 993,432; May 30; Sp. p. 5583; Gaz. vol. 166; p. 1024.
Water-elevating apparatus. T. W. Gray. No. 1,000,169; Aug. 8; Sp. p. 2019; Gaz. vol. 169; p. 362.
Water-elevating apparatus. O. A. Roed No. 1,000,345; Aug. 8; Sp. p. 2394; Gaz. vol. 169; p. 421.
Water-elevator. S. E. Ankrom. No. 980,734; Jan. 3; Sp. p. 1196; Gaz. vol. 162; p. 191.
Water-elevator. A. and C. Vaichis and H. Arvan. No. 994,487; June 6; Sp. p. 782; Gaz. vol. 167; p. 133.
Water-elevator. J. W. Thompson and J. F. Hathaway. No. 1,002,472; Sept. 5; Sp. p. 660; Gaz. vol. 170; p. 95.
Water-elevator. R. Snyder. No. 1,005,664; Oct. 10; Sp. p. 2417; Gaz. vol. 171; p. 415.
Water-elevator, Compressed-air. F. P. Callow. No. 1,000,713; Aug. 15; Sp. p. 3233; Gaz. vol. 169; p. 584.
Water-elevator, Compressed-air. G. S. Lane. No. 1,007,955; Nov. 7; Sp. p. 693; Gaz. vol. 172; p. 107.
Water-elevator, Pneumatic. V. L. Ellison. No. 997,661; July 11; Sp. p. 2221; Gaz. vol. 168; p. 392.
Water-elevator, Pneumatic. B. R. Pilcher. No. 1,003,945; Sept. 19; Sp. p. 3846; Gaz. vol. 170; p. 675.
Water-elevator, Pneumatic. B. R. Pilcher. No. 1,003,946; Sept. 19; Sp. p. 3848; Gaz. vol. 170; p. 675.
Water-fountain. B. Kaminsky. (Reissue.) No. 13,195; Jan. 10; Sp. p. 3199; Gaz. vol. 162; p. 522.
Water-fountain, Portable. R. C. Walkup. No. 1,011,290; Dec. 12; Sp. p. 2012; Gaz. vol. 173; p. 346.
Water-gage. J. J. Menville. No. 989,919; Apr. 18; Sp. p. 3490; Gaz. vol. 165; p. 607.
Water-gage. E. B. Stanton. No. 992,612; May 16; Sp. p. 3838; Gaz. vol. 166; p. 684.
Water-gage. C. Connolley. No. 993,225; May 23; Sp. p. 5124; Gaz. vol. 166; p. 923.
Water-gage. R. J. Nault. No. 995,414; June 13; Sp. p. 2865; Gaz. vol. 167; p. 486.
Water-gage. T. F. Fitzgerald. No. 1,000,394; Aug. 15; Sp. p. 2515; Gaz. vol. 169; p. 470.
Water-gage. F. J. O'Leary. No. 1,002,432; Sept. 5; Sp. p. 575; Gaz. vol. 170; p. 82.
Water-gage. J. A. Cooper and W. R. Van Buskirk. No. 1,003,236; Sept. 12; Sp. p. 2324; Gaz. vol. 170; p. 399.
Water-gage. H. R. Fay. No. 1,005,424; Oct. 10; Sp. p. 1861; Gaz. vol. 171; p. 329.
Water-gages, lubricators, or the like, Sight-feed tube for. F. Leonhardt. No. 998,104; July 18; Sp. p. 3276; Gaz. vol. 168; p. 590.
Water-gate. W. S. Dougherty and N. Stewart. No. 1,006,730; Oct. 24; Sp. p. 4764; Gaz. vol. 171; p. 848.
Water-glass guard. G. Moser. No. 986,199; Mar. 7; Sp. p. 923; Gaz. vol. 164; p. 149.
Water-governor. A. Dickerson. No. 983,216; Jan. 31; Sp. p. 6632; Gaz. vol. 162; p. 1153.
Water-heater. F. A. Nieberding. No. 980,327; Jan. 3; Sp. p. 286; Gaz. vol. 162; p. 52.
Water-heater. J. Schlosser. No. 981,317; Jan. 10; Sp. p. 2618; Gaz. vol. 162; p. 426.
Water-heater. W. J. Warner and D. A. Lichty. No. 981,725; Jan. 17; Sp. p. 3460; Gaz. vol. 162; p. 586.
Water-heater. J. J. Newton. No. 983,753; Feb. 7; Sp. p. 1063; Gaz. vol. 163; p. 169.
Water-heater. L. D. Lovekin. No. 983,912; Feb. 14; Sp. p. 1436; Gaz. vol. 163; p. 254.
Water-heater. S. W. Brown. No. 985,001; Feb. 21; Sp. p. 3734; Gaz. vol. 163; p. 659.
Water-heater. J. H. Freeman. No. 989,959; Apr. 18; Sp. p. 3580; Gaz. vol. 165; p. 621.
Water-heater. J. W. Gamble. No. 991,969; May 9; Sp. p. 2420; Gaz. vol. 166; p. 431.
Water-heater. J. W. Gamble. No. 991,970; May 9; Sp. p. 2422; Gaz. vol. 166; p. 431.
Water-heater. C. Hart. No. 993,246; May 23; Sp. p. 5174; Gaz. vol. 166; p. 929.
Water-heater. A. C. Clayton. No. 993,506; May 30; Sp. p. 5744; Gaz. vol. 166; p. 1049.
Water-heater. A. H. Merrill. No. 994,084; May 30; Sp. p. 6959; Gaz. vol. 166; p. 1248.
Water-heater. B. Vale. No. 994,432; June 6; Sp. p. 688; Gaz. vol. 167; p. 118.
Water-heater. P. C. Elsey. No. 995,063; June 13; Sp. p. 2140; Gaz. vol. 167; p. 371.
Water-heater. M. K. and A. M. Henderson. No. 995,964; June 20; Sp. p. 4069; Gaz. vol. 167; p. 708.
Water-heater. F. Reissner and H. J. Warren. No. 996,427; June 27; Sp. p. 5152; Gaz. vol. 167; p. 902.
Water-heater. H. S. Humphrey. No. 998,004; July 18; Sp. p. 3046; Gaz. vol. 168; p. 555.
Water-heater. J. B. Jones. No. 998,181; July 18; Sp. p. 3425; Gaz. vol. 168; p. 618.
Water-heater. B. A. Geurink. No. 998,609; July 25; Sp. p. 4372; Gaz. vol. 168; p. 801.
Water-heater. C. A. Borein. No. 1,000,367; Aug. 15; Sp. p. 2464; Gaz. vol. 169; p. 461.
Water-heater. H. E. Townsend. No. 1,001,096; Aug. 22; Sp. p. 4109; Gaz. vol. 169; p. 753.
Water-heater. H. E. Townsend. No. 1,001,232; Aug. 22; Sp. p. 4379; Gaz. vol. 169; p. 796.
Water-heater. I. F. C. Curtis. No. 1,002,371; Sept. 5; Sp. p. 454; Gaz. vol. 170; p. 63.
Water-heater. E. E. Graham. No. 1,006,545; Oct. 24; Sp. p. 4402; Gaz. vol. 171; p. 786.
Water-heater. H. S. Humphrey. No. 1,006,556; Oct. 24; Sp. p. 4433; Gaz. vol. 171; p. 791.
Water-heater. R. L. Templin. No. 1,007,749; Nov. 7; Sp. p. 220; Gaz. vol. 172; p. 35.
Water-heater. B. A. Schroder. No. 1,008,077; Nov. 7; Sp. p. 922; Gaz. vol. 172; p. 148.
Water-heater. G. E. Starn. No. 1,009,198; Nov. 21; Sp. p. 3479; Gaz. vol. 172; p. 614.
Water-heater. W. A. Williams. No. 1,010,005; Nov. 28; Sp. p. 5220; Gaz vol. 172; p. 937.
Water-heater. C. L. Holden. No. 1,010,764; Dec. 5; Sp. p. 823; Gaz. vol. 173; p. 128.
Water-heater. W. G. Wise. No. 1,013,094; Dec. 26; Sp. p. 6002; Gaz. vol. 173; p. 1050.
Water-heater and boiler, Combined. C. Hart. No. 985,343; Feb. 28; Sp. p. 4511; Gaz. vol. 163; p. 812.
Water-heater and grate, Combined field. G. Beyer. No. 981,609; Jan. 17; Sp. p. 3227; Gaz. vol. 162; p. 548.

Water heater and purifier. J. E. Wood. No. 986,886; Mar. 14; Sp. p. 2406; Gaz. vol. 164; p. 416.
Water-heater and steam-generator. J. Muirhead. No. 1,012,895; Dec. 26; Sp. p. 5565; Gaz. vol. 173; p. 981.
Water heater and sterilizer, Portable. H. E. Harr. No. 1,007,099; Oct. 31; Sp. p. 5608; Gaz. vol. 171; p. 1031.
Water-heater, Differential. A A. Cardwell. No. 997,749; July 11; Sp. p. 2436; Gaz. vol. 168; p. 425.
Water-heater, Electric. H. A. Burns. No. 981,244; Jan. 10; Sp. p. 2466; Gaz. vol. 162; p. 400.
Water-heater, Electric. A. Albert. No. 986,037; Mar. 7; Sp. p. 604; Gaz. vol. 164; p. 97.
Water-heater, Electric. H. N. Roche and W. R. Ray. No. 987,493; Mar. 21; Sp. p. 3659; Gaz. vol. 164; p. 652.
Water-heater, Electric. M. H. Shoenberg. No. 993,206; May 23; Sp. p. 5093; Gaz. vol. 166; p. 918.
Water-heater, Electric. J. H. Hallberg. No. 997,670; July 11; Sp. p. 2238; Gaz. vol. 168; p. 396.
Water-heater, Electric. C. O. Farrington and H. M. Hill. No. 1,002,977; Sept. 12; Sp. p. 1774; Gaz. vol. 170; p. 307.
Water-heater, Electrical. W. R. Ray. No. 991,244; May 2; Sp. p. 890; Gaz. vol. 166; p. 151.
Water-heater, Electrical. M. H. Shoenberg. No. 1,005,754; Oct. 10; Sp. p. 2587; Gaz. vol. 171; p. 445.
Water-heater, Electrical. L. Katz. No. 1,011,809; Dec. 12; Sp. p. 3165; Gaz. vol. 173; p. 529.
Water-heater, Gas. M. Ramassot. No. 988,209; Mar. 28; Sp. p. 5208; Gaz. vol. 164; p. 924.
Water-heater, Instantaneous. G. A. Shook. No. 993,723; May 30; Sp. p. 6229; Gaz. vol. 166; p. 1126.
Water-heater, Instantaneous. R. C. Frampton. No. 998,083; July 18; Sp. p. 3222; Gaz. vol. 168; p. 583.
Water heater or boiler. E. C. Hock. No. 995,139; June 13; Sp. p. 2279; Gaz. vol. 167; p. 395.
Water heater or boiler. W. C. McKeown. No. 996,995; July 4; Sp. p. 854; Gaz. vol. 168; p. 136.
Water-heater, Quick-acting. J. B. Mowry. No. 989,025; Apr. 11; Sp. p. 1542; Gaz. vol. 165; p. 270.
Water-heater, Solar. R. S. McIntyre. No. 1,004,888; Oct. 3; Sp. p. 758; Gaz. vol. 171; p. 121.
Water-heaters, Collapsible tray for. J. W. Gamble. No. 985,337; Feb. 28; Sp. p. 4500; Gaz. vol. 163; p. 810.
Water-heating and thermal storage apparatus. D. B. Morison. No. 1,008,851; Nov. 14; Sp. p. 2741; Gaz. vol. 172; p. 461.
Water-heating apparatus. J. F. Muller. No. 982,844; Jan. 31; Sp. p. 5848; Gaz. vol. 162; p. 1030.
Water-heating apparatus. J. B. Beauvais. No. 994,562; June 6; Sp. p. 958; Gaz. vol. 167; p. 159.
Water-heating apparatus. J. B. Beauvais. No. 994,563; June 6; Sp. p. 960; Gaz. vol. 167; p. 159.
Water-heating apparatus. G. H. Gibson. No. 1,002,144; Aug. 29; Sp. p. 6265; Gaz. vol. 169; p. 1133.
Water-heating apparatus. R. von Brockdorff. No. 1,002,637; Sept. 5; Sp. p. 1018; Gaz. vol. 170; p. 152.
Water-heating apparatus. A. Trepreau. No. 1,009,354; Nov. 21; Sp. p. 3860; Gaz. vol. 172; p. 672.
Water-heating apparatus, Electric. J. G. Wallmann. No. 1,004,608; Oct. 3; Sp. p. 135; Gaz. vol. 171; p. 23.
Water-hoist. A. Wickey. No. 989,741; Apr. 18; Sp. p. 3109; Gaz. vol. 165; p. 546.
Water-jacket. S. W. Traylor. No. 985,077; Feb. 21; Sp. p. 3887; Gaz. vol. 163; p. 687.
Water-jacket. S. W. Traylor. No. 998,658; July 25; Sp. p. 4485; Gaz. vol. 168; p. 818.
Water-level controller. F. A. Ray. No. 980,675; Jan. 3; Sp. p. 1087; Gaz. vol. 162; p. 173.
Water-level indicator. C. A. Tanner and A. P. Saxer. No. 1,011,270; Dec. 12; Sp. p. 1977; Gaz. vol. 173; p. 339.
Water-level indicator, Electric. E. E. Fieseler. No. 1,005,111; Oct. 3; Sp. p. 1152; Gaz. vol. 171; p. 194.
Water-level regulator. J. E. De Bisschop. No. 980,214; Jan. 3; Sp. p. 77; Gaz. vol. 162; p. 15.
Water-lift. J. E. Osmer. No. 981,301; Jan. 10; Sp. p. 2586; Gaz. vol. 162; p. 420.
Water-lift and air-compressor. R. Y. Bovee. No. 995,112; June 13; Sp. p. 2220; Gaz. vol. 167; p. 386.
Water-mains and waste-pipes, Cleaner for. J. Kohrman. No. 985,604; Feb. 28; Sp. p. 5109; Gaz. vol. 163; p. 902.
Water-meter. J. R. Kinney. No. 981,660; Jan. 17; Sp. p. 3315; Gaz. vol. 162; p. 563.
Water-meter. E. E. Gamon. No. 992,954; May 23; Sp. p. 4567; Gaz. vol. 166; p. 833.
Water-meter. A. T. Hill. No. 997,553; July 11; Sp. p. 1978; Gaz. vol. 168; p. 353.
Water-meter. J. M. Burton. No. 1,001,578; Aug. 22; Sp. p. 5062; Gaz. vol. 169; p. 912.
Water-meter. A. S. Drisko. No. 1,002,139; Aug. 29; Sp. p. 6256; Gaz. vol. 169; p. 1131.
Water-meter. T. R. Butts. No. 1,008,446; Nov. 14; Sp. p. 1854; Gaz. vol. 172; p. 319.
Water-meter disks, Manufacture of. W. L. Gumprecht. No. 990,255; Apr. 25; Sp. p. 4220; Gaz. vol. 165; p. 753.
Water-meter intermediate gearing. W. H. Larrabee. No. 998,853; July 25; Sp. p. 4932; Gaz. vol. 168; p. 887.
Water-meter, Turbine. F. Ray. No. 1,005,875; Oct. 17; Sp. p. 2859; Gaz. vol. 171; p. 520.
Water-meters, Rubber gear for. W. H. Larrabee. No. 1,007,296; Oct. 31; Sp. p. 6042; Gaz. vol. 171; p. 1102.
Water, Method of and means for extracting micro-organisms and solids from. G. W. Durbrow. No. 1,006,070; Oct. 17; Sp. p. 3287; Gaz. vol. 171; p. 587.
Water-motor. R. Ames. No. 981,514; Jan. 10; Sp. p. 3028; Gaz. vol. 162; p. 493.
Water-motor. J. B. Norton. No. 987,818; Mar. 28; Sp. p. 4349; Gaz. vol. 164; p. 791.
Water-motor. P. R. Rates and C. L. Burright. No. 989,873; Apr. 18; Sp. p. 3386; Gaz. vol. 165; p. 591.
Water-motor. E. M. Shelley. No. 993,115; May 23; Sp. p. 4917; Gaz. vol. 166; p. 890.
Water-motor. S. Nelson. No. 996,787; July 4; Sp. p. 375; Gaz. vol. 168; p. 63.
Water-motor. J. T. Tolleson and C. James. No. 997,719; July 11; Sp. p. 2350; Gaz. vol. 168; p. 413.
Water-motor. P. T. Coffield. No. 1,001,821; Aug. 29; Sp. p. 5597; Gaz. vol. 169; p. 1027.
Water-motor. J. Gonzalez. No. 1,008,257; Nov. 7; Sp. p. 1310; Gaz. vol. 172; p. 214.
Water-motor. P. T. Coffield. No. 1,008,954; Nov. 14; Sp. p. 2957; Gaz. vol. 172; p. 494.
Water-motor. B. J. Baskerville. No. 1,009,014; Nov. 14; Sp. p. 3094; Gaz. vol. 172; p. 515.
Water-motor, Balanced. P. T. Dodson. No. 988,256; Mar. 28; Sp. p. 5304; Gaz. vol. 164; p. 938.
Water-motor, Impact. J. W. Branson. No. 1,006,906; Oct. 24; Sp. p. 5192; Gaz. vol. 171; p. 912.
Water-motor, Oscillating. R. C. Smith. No. 981,889; Jan. 17; Sp. p. 3805; Gaz. vol. 162; p. 644.
Water-motor, Oscillating. A. Anderson. No. 988,426; Apr. 4; Sp. p. 290; Gaz. vol. 165; p. 47.
Water-motor, Oscillating. J. H. Rose. No. 1,012,164; Dec. 19; Sp. p. 3980; Gaz. vol. 173; p. 687.
Water-motors, Governing contrivance for jet-impelled. J. Orten-Boving. No. 993,616; May 30; Sp. p. 5987; Gaz. vol. 166; p. 1089.
Water power, Apparatus for utilizing waste-. W. T. Nicholls. No. 983,512; Feb. 7; Sp. p. 544; Gaz. vol. 163; p. 87.
Water-pressure, Means for utilizing. E. R. Brodton. No. 996,056; June 27; Sp. p. 4267; Gaz. vol. 167; p. 775.
Water purification. E. E. M. Payne. No. 1,002,603; Sept. 5; Sp. p. 950; Gaz. vol. 170; p. 141.
Water-purifier. E. Bowman and J. A. Wallace. No. 986,897; Mar. 14; Sp. p. 2429; Gaz. vol. 164; p. 420.
Water-purifier and oil-separator. M. B. Cresswell. No. 990,959; May 2; Sp. p. 283; Gaz. vol. 166; p. 49.
Water-purifier, Automatic. G. F. Day. No. 989,235; Apr. 11; Sp. p. 1986; Gaz. vol. 165; p. 341.
Water, Purifying. W. B. Bull. No. 982,704; Jan. 24; Sp. p. 5538; Gaz. vol. 162; p. 954.
Water, Purifying. W. B. Bull. No. 1,012,808; Dec. 26; Sp. p. 5351; Gaz. vol. 173; p. 952.
Water-purifying apparatus. W. B. Bull. No. 982,705; Jan. 24; Sp. p. 5541; Gaz. vol. 162; p. 954.
Water-purifying apparatus. E. S. Woods and J. C. W. Greth. No. 984,635; Feb. 21; Sp. p. 3015; Gaz. vol. 163; p. 534.
Water-purifying apparatus. A. and C. Winckler. No. 998,317; July 18; Sp. p. 3763; Gaz. vol. 168; p. 669.
Water-purifying apparatus. H. Reisert. No. 1,009,857; Nov. 28; Sp. p. 4916; Gaz. vol. 172; p. 888.
Water-purifying apparatus. W. B. Bull. No. 1,012,809; Dec. 26; Sp. p. 5353; Gaz. vol. 173; p. 953.
Water-purifying apparatus, Solution-feeder for. M. F. Newman. No. 997,318; July 11; Sp. p. 1524; Gaz. vol. 168; p. 277.
Water-recorder. C. H. Watson. No. 996,546; June 27; Sp. p. 5374; Gaz. vol. 167; p. 940.
Water-regulator, Automatic. A. C. Culver. No. 985,147; Feb. 28; Sp. p. 4081; Gaz. vol. 163; p. 744.
Water-softener. J. E. Bain. No. 989,942; Apr. 18; Sp. p. 3549; Gaz. vol. 165; p. 616.
Water-softener. R. E. Stevenson. No. 1,011,656; Dec. 12; Sp. p. 2860; Gaz. vol. 173; p. 478.
Water-softening apparatus. A. R. Holmén. No. 991,990; May 9; Sp. p. 2463; Gaz. vol. 166; p. 438.
Water-softening apparatus. F. S. Dunham. No. 993,663; May 30; Sp. p. 6099; Gaz. vol. 166; p. 1105.
Water-softening apparatus. D. W. Patterson. No. 995,556; June 20; Sp. p. 3181; Gaz. vol. 167; p. 565.
Water-softening apparatus. K. W. Bartlett. No. 1,007,176; Oct. 31; Sp. p. 5792; Gaz. vol. 171; p. 1059.
Water-softening compound. O. A. Eberbach. No. 1,001,935; Aug. 29; Sp. p. 5864; Gaz. vol. 169; p. 1065.
Water-sprinkler. W. Wittekopf. No. 988,423; Apr. 4; Sp. p. 287; Gaz. vol. 165; p. 47.
Water-sterilizing apparatus. C. D. Meeker and C. F. Wallace. No. 986,194; Mar. 7; Sp. p. 911; Gaz. vol. 164; p. 147.
Water-sterilizing apparatus. E. Zahm. No. 1,005,493; Oct. 10; Sp. p. 2006; Gaz. vol. 171; p. 353.
Water-supply system for houses, &c. C. D. Saxton. No. 989,648; Apr. 18; Sp. p. 2915; Gaz. vol. 165; p. 514.
Water-supply systems, Circulation-maintaining means for. I. Cowles. No. 993,509; May 30; Sp. p. 5748; Gaz. vol. 166; p. 1050.
Water system, Automatic. J. L. White and J. B. Polo. No. 999,075; July 25; Sp. p. 5430; Gaz. vol. 168; p. 966.
Water-tank. C. H. Miller and W. A. Bunnell. No. 1,000,619; Aug. 15; Sp. p. 3044; Gaz. vol. 169; p. 553.

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Water-tank. G. T. Horton. No. 1,008,645; Nov. 14; Sp. p. 2317; Gaz. vol. 172; p. 391.
Water-tank for fowls. P. H. Herndon. No. 988,266; Mar. 28; Sp. p. 5326; Gaz. vol. 164; p. 942.
Water-tank, Stock. C. W. Funk. No. 1,013,008; Dec. 26; Sp. p. 5829; Gaz. vol. 173; p. 1019.
Water-tower. C. W. Fink. No. 1,009,293; Nov. 21, Sp. p. 3730; Gaz. vol. 172; p. 649.
Water-tower and fire-escape, Combined. E. Magliocca. No. 1,003,967; Sept. 19; Sp. p. 3891; Gaz. vol. 170; p. 683.
Water-trap. J. Joy. No. 986,394; Mar. 7; Sp. p. 1346; Gaz. vol. 164; p. 216.
Water-trap, Steam-actuated. J. E. Jones. No. 982,967; Jan. 31; Sp. p. 6122; Gaz. vol. 162; p. 1070.
Water-tube boiler. J. L. Butler and N. Slee. No. 981,377; Jan. 10; Sp. p. 2747; Gaz. vol. 162; p. 446.
Water-tube boiler. D. Almy. No. 982,198; Jan. 17; Sp. p. 4467; Gaz. vol. 162; p. 749.
Water-tube boiler. M. W. Sewall and D. S. Jacobus. No. 983,000; Jan. 31; Sp. p. 6201; Gaz. vol. 162; p. 1081.
Water-tube boiler. M. W. Sewall and D. S. Jacobus. No. 983,171; Jan. 31; Sp. p. 6543; Gaz. vol. 162; p. 1138.
Water-tube boiler. A. Worthington. No. 983,339; Feb. 7; Sp. p. 172; Gaz. vol. 163; p. 30.
Water-tube boiler. J. E. Bell. No. 984,880; Feb. 21; Sp. p. 3507; Gaz. vol. 163; p. 620.
Water-tube boiler. M. W. Sewall. No. 986,089; Mar. 7; Sp. p. 710; Gaz. vol. 164; p. 114.
Water-tube boiler. W. D. Chester and H. B. Rust. No. 995,523; June 20; Sp. p. 3112; Gaz. vol. 167; p. 554.
Water-tube boiler. F. R. Sartor. No. 1,003,297; Sept. 12; Sp. p. 2439; Gaz. vol. 170; p. 420.
Water-tube boiler. G. Cook. No. 1,008,526; Nov. 14; Sp. p. 2031; Gaz. vol. 172; p. 347.
Water-tube boiler. O. Guilleaume. No. 1,011,190; Dec. 12; Sp. p. 1777; Gaz. vol. 173; p. 310.
Water under varying pressure, Device for maintaining a uniform delivery of. P. A. Mahoney. No. 1,007,714; Nov. 7; Sp. p. 138; Gaz. vol. 172; p. 22.
Water, vacuum, and pressure gage, automatic regulator, and safety device, Combined. W. T. Fowden. No. 987,125; Mar. 21; Sp. p. 2843; Gaz. vol. 164; p. 524.
Water-wheel. F. Overfield. No. 980,666; Jan. 3; Sp. p. 1070; Gaz. vol. 162; p. 170.
Water-wheel. W. C. Turner. No. 980,708; Jan. 3; Sp. p. 1149; Gaz. vol. 162; p. 183.
Water-wheel. J. S. Beaver. No. 985,104; Feb. 21; Sp. p. 3936; Gaz. vol. 163; p. 695.
Water-wheel. D. S. Hibbard. No. 989,149; Apr. 11; Sp. p. 1798; Gaz. vol. 165; p. 313.
Water-wheel. J. R. De Remer. No. 990,639; Apr. 25; Sp. p. 5087; Gaz. vol. 165; p. 886.
Water-wheel. W. E. Seelye. No. 1,008,372; Nov. 14; Sp. p. 1646; Gaz. vol. 172; p. 294.
Water-wheel. W. Van Scoter. No. 1,008,396; Nov. 14; Sp. p. 1718; Gaz. vol. 172; p. 302.
Water-wheel bearing. F. Trump. No. 993,420; May 30; Sp. p. 5559; Gaz. vol. 166; p. 1021.
Water-wheel, Impact. J. Kincaid. No. 990,362; Apr. 25; Sp. p. 4460; Gaz. vol. 165; p. 789.
Water-wheel mechanism. T. A. Macdonald. No. 982,079; Jan. 17; Sp. p. 4259; Gaz. vol. 162; p. 709.
Water-wheel, Tangential-impulse. S. L. Berry. No. 1,012,799; Dec. 26; Sp. p. 5334; Gaz. vol. 173; p. 950.
Water-wheel, Turbine. S. W. Reece. No. 996,525; June 27; Sp. p. 5330; Gaz. vol. 167; p. 933.
Waterfall-power-utilization system. A. F. Eells. No. 1,002,241; Sept. 5; Sp. p. 124; Gaz. vol. 170; p. 15.
Watering and spraying apparatus. H. F. Zieman. No. 985,316; Feb. 28; Sp. p. 4460; Gaz. vol. 163; p. 803.
Watering-trough. A. C. Michael. (Reissue.) No. 13,237; May 9; Sp. p. 2761; Gaz. vol. 166; p. 489.
Watering-trough. W. D. Quimby. No. 993,273; May 23; Sp. p. 5226; Gaz. vol. 166; p. 937.
Watering-trough. M. Mansfield. No. 1,000,531; Aug. 15; Sp. p. 2811; Gaz. vol. 169; p. 519.
Waterproof switch. D. M. Lang. No. 992,009; May 9; Sp. p. 2493; Gaz. vol. 166; p. 444.
Waterproofing compound and making the same, Palmitin. E. Mas. No. 982,620; Jan. 24; Sp. p. 5367; Gaz. vol. 162; p. 926.
Wattmeter. C. R. D'Arcy. No. 1,003,883; Sept. 19; Sp. p. 3673; Gaz. vol. 170; p. 653.
Wattmeter, Astatic. W. H. Pratt. No. 1,003,507; Sept. 19; Sp. p. 2871; Gaz. vol. 170; p. 524.
Wattmeters, Test-switch for recording-. H. G. Blokusewski. No. 992,539; May 16; Sp. p. 3685; Gaz. vol. 166; p. 659.
Wave and current motor. J. T. Cross. No. 986,802; Mar. 14; Sp. p. 2217; Gaz. vol. 164; p. 385.
Wave and tide motor. N. S. Edens. No. 994,728; June 13; Sp. p. 1369; Gaz. vol. 167; p. 256.
Wave apparatus, Automatic. R. M. Mobius. No. 988,012; Mar. 28; Sp. p. 4822; Gaz. vol. 164; p. 859.
Wave-detector. J. L. Creveling. No. 1,004,748; Oct. 3; Sp. p. 434; Gaz. vol. 171; p. 72.
Wave-detector. T. H. Lyon. No. 1,008,977; Nov. 14; Sp. p. 3006; Gaz. vol. 172; p. 501.
Wave-energy motor. C. M. Rhodes. No. 1,001,444; Aug. 22; Sp. p. 4816; Gaz. vol. 169; p. 868.
Wave-motor. H. P. Molander. No. 982,186; Jan. 17; Sp. p. 4444; Gaz. vol. 162; p. 745.
Wave-motor. T. J. Beaudette. No. 982,928; Jan. 31; Sp. p. 6044; Gaz. vol. 162; p. 1058.
Wave-motor. W. P. Gammons, Jr. No. 984,131; Feb. 14; Sp. p. 1904; Gaz. vol. 163; p. 327.
Wave-motor. W. A. Russell. No. 984,241; Feb. 14; Sp. p. 2152; Gaz. vol. 163; p. 365.
Wave-motor. D. M. Barteau. No. 991,264; May 2; Sp. p. 934; Gaz. vol. 166; p. 158.
Wave-motor. D. M. Barteau. No. 991,265; May 2; Sp. p. 936; Gaz. vol. 166; p. 158.
Wave-motor. R. E. Brakey. No. 993,221; May 23; Sp. p. 5119; Gaz. vol. 166; p. 922.
Wave-motor. W. F. Kelley. No. 993,835; May 30; Sp. p. 6468; Gaz. vol. 166; p. 1164.
Wave-motor. H. P. Molander. No. 996,112; June 27; Sp. p. 4386; Gaz. vol. 167; p. 794.
Wave-motor. W. W. Ford. No. 997,663; July 11; Sp. p. 2224; Gaz. vol. 168; p. 393.
Wave-motor. E. L. Ayers. No. 997,731; July 11; Sp. p. 2374; Gaz. vol. 168; p. 417.
Wave-motor. A. W. Dowe. No. 1,003,241; Sept. 12; Sp. p. 2329; Gaz. vol. 170; p. 400.
Wave-motor. A. W. Melander. No. 1,003,635; Sept. 19; Sp. p. 3161; Gaz. vol. 170; p. 569.
Wave-motor. A. F. Martel. No. 1,003,930; Sept. 19; Sp. p. 3807; Gaz. vol. 170; p. 669.
Wave-motor. W. H. Allen. No. 1,004,322; Sept. 26; Sp. p. 4723; Gaz. vol. 170; p. 835.
Wave-motor. G. H. W. Doose. No. 1,005,616; Oct. 10; Sp. p. 2307; Gaz. vol. 171; p. 397.
Wave-motor. A. Heuckendorff. No. 1,006,214; Oct. 17; Sp. p. 3634; Gaz. vol. 171; p. 639.
Wave-motor. E. A. Wall. No. 1,008,688; Nov. 14; Sp. p. 2392; Gaz. vol. 172; p. 403.
Wave-motor. V. Raschella. No. 1,009,096; Nov. 21; Sp. p. 3273; Gaz. vol. 172; p. 579.
Wave-motor. J. Smith. No. 1,009,592; Nov. 21; Sp. p. 4371; Gaz. vol. 172; p. 753.
Wave-motor, Ship's. H. E. Fisher. No. 986,627; Mar. 14; Sp. p. 1841; Gaz. vol. 164; p. 327.
Wave-motor, Vacuum-generating. G. von Post. No. 1,009,260; Nov. 21; Sp. p. 3651; Gaz. vol. 172; p. 637.
Wave-motors, Driving mechanism for. A. Dean. No. 998,756; July 25; Sp. p. 4716; Gaz. vol. 168; p. 854.
Wave-power generator. R. M. Mobius. No. 986,740; Mar. 14; Sp. p. 2083; Gaz. vol. 164; p. 364.
Wave-power machine. E. T. Allen. No. 992,745; May 23; Sp. p. 4101; Gaz. vol. 166; p. 759.
Wave-power system. A. L. Reynolds. No. 988,508; Apr. 4; Sp. p. 459; Gaz. vol. 165; p. 74.
Wave-trains by means of primary spark-circuits, Production of continuous. R. C. Galletti. No. 1,000,397; Aug. 15; Sp. p. 2521; Gaz. vol. 169; p. 471.
Wax-finish, Liquid. J. D. Bryant. No. 987,042; Mar. 14; Sp. p. 2687; Gaz. vol. 164; p. 465.
Wax from plants, Apparatus for separating. C. Hill. No. 1,003,259; Sept. 12; Sp. p. 2370; Gaz. vol. 170; p. 407.
Wax-melter. J. G. Dickson. No. 1,007,188; Oct. 31; Sp. p. 5829; Gaz. vol. 171; p. 1064.
Wax-molding machine, Sealing-. G. D. C. Coddington. No. 993,321; May 23; Sp. p. 5316; Gaz. vol. 166; p. 954.
Wax-treating apparatus, Paraffin-. A. Campbell. No. 999,628; Aug. 1; Sp. p. 847; Gaz. vol. 169; p. 148.
Weaner, Calf-. F. W. Widmann. No. 987,521; Mar. 21; Sp. p. 3703; Gaz. vol. 164; p. 661.
Weapon and tool, Combined. M. Mondragon. No. 1,003,119; Sept. 12; Sp. p. 2065; Gaz. vol. 170; p. 356.
Weather-boarding tool. T. Sarlls. No. 995,574; June 20; Sp. p. 3231; Gaz. vol. 167; p. 571.
Weather-guard and sash-lock. E. S. Kelly. No. 982,828; Jan. 31; Sp. p. 5821; Gaz. vol. 162; p. 1024.
Weather-guard for windows. A. H. Newpher. No. 994,868; June 13; Sp. p. 1705; Gaz. vol. 167; p. 304.
Weather-strip. C. R. Hammell. No. 981,416; Jan. 10; Sp. p. 2850; Gaz. vol. 162; p. 460.
Weather-strip. J. Kammerer. No. 986,828; Mar. 14; Sp. p. 2277; Gaz. vol. 164; p. 394.
Weather-strip. J. Kammerer. No. 996,345; June 27; Sp. p. 4956; Gaz. vol. 167; p. 872.
Weather-strip. A. F. Ewing. No. 997,662; July 11; Sp. p. 2222; Gaz. vol. 168; p. 393.
Weather-strip. L. Knott. No. 998,346; July 18; Sp. p. 3823; Gaz. vol. 168; p. 679.
Weather-strip. H. Higgin. No. 1,004,788; Oct. 3; Sp. p. 516; Gaz. vol. 171; p. 85.
Weather-strip. A. Solomon. No. 1,011,649; Dec. 12; Sp. p. 2851; Gaz. vol. 173; p. 476.
Weather-strip and door-check, Combined. D. E. Shipley, J. E. Lewis, and C. H. George. No. 984,306; Feb. 14; Sp. p. 2297; Gaz. vol. 163; p. 388.
Weather-strip, Automatic. G. L. Godfrey. No. 994,586; June 6; Sp. p. 1008; Gaz. vol. 167; p. 168.
Weather-strip, Meeting-rail. S. P. Bricker. No. 989,760; Apr. 18; Sp. p. 3139; Gaz. vol. 165; p. 552.
Weather-strip, Metal. A. M. Lane. No. 987,244; Mar. 21; Sp. p. 3138; Gaz. vol. 164; p. 568.
Weather-strip, Metal. J. C. McMahon. No. 991,526; May 9; Sp. p. 1492; Gaz. vol. 166; p. 279.

Weather-strip stop. M. J. Killits and J. B. Durkee. No. 1,010,150; Nov. 28; Sp. p. 5507; Gaz. vol. 172; p. 986.
Weather-strip, Window and door. G. K. Monroe. No. 984,232; Feb. 14; Sp. p. 2139; Gaz. vol. 163; p. 362.
Weather-strips, Machine for forming metal. A. M. Lane. No. 1,005,848; Oct. 17; Sp. p. 2798; Gaz. vol. 171; p. 509.
Weather-vane. W. H. Shotwell. No. 993,800; May 30; Sp. p. 6392; Gaz. vol. 166; p. 1152.
Weatherproofing. I. H. Athey. No. 1,004,336; Sept. 26; Sp. p. 4730; Gaz. vol. 170; p. 836.
Weaving, Apparatus for preparing chenille strips for. W. T. Smith. No. 1,009,594; Nov. 21; Sp. p. 4374; Gaz. vol. 172; p. 754.
Weaving device, Hand. A. Putman. No. 983,764; Feb. 7; Sp. p. 1085; Gaz. vol. 163; p. 174.
Weaving, Doup-heddle for leno-. A. E. Kelmel. No. 1,006,563; Oct. 24; Sp. p. 4446; Gaz. vol. 171; p. 793.
Weaving-machine matching device. C. H. Collins. No. 988,694; Apr. 4; Sp. p. 857; Gaz. vol. 165; p. 139.
Weaving without cards, Electric jacquard-machine for figure-. A. Regal. No. 983,862; Feb. 7; Sp. p. 1302; Gaz. vol. 163; p. 207.
Web-folding machine. C. T. Cundall. No. 1,000,670; Aug. 15; Sp. p. 3147; Gaz. vol. 169; p. 570.
Web-operating mechanism. W. H. Richardson. No. 1,001,445; Aug. 22; Sp. p. 4818; Gaz. vol. 169; p. 868.
Web-slitting mechanism. W. A. Pringle. No. 984,024; Feb. 14; Sp. p. 1692; Gaz. vol. 163; p. 291.
Weed and insect destroyer. T. E. Anderberg and A. R. Gardner. No. 992,140; May 16; Sp. p. 2771; Gaz. vol. 166; p. 519.
Weed-burning apparatus. H. P. Walton. No. 993,131; May 23; Sp. p. 4942; Gaz. vol. 166; p. 895.
Weed-cutter. S. F. Jenkins. No. 997,450; July 11; Sp. p. 1765; Gaz. vol. 168; p. 320.
Weed-cutter. C. G. Sigurd. No. 1,010,813; Dec. 5; Sp. p. 812; Gaz. vol. 173; p. 144.
Weed-cutter. B. F. Lowe. No. 1,011,455; Dec. 12; Sp. p. 2361; Gaz. vol. 173; p. 404.
Weed-cutter. P. O. Caswell. No. 1,011,917; Dec. 19; Sp. p. 3421; Gaz. vol. 173; p. 599.
Weed-exterminator. G. E. Whitney. No. 981,508; Jan. 10; Sp. p. 3013; Gaz. vol. 162; p. 491.
Weed-puller. B. F. Sweeney. No. 988,405; Apr. 4; Sp. p. 250; Gaz. vol. 165; p. 40.
Weeder. G. Thomas. No. 983,952; Feb. 14; Sp. p. 1521; Gaz. vol. 163; p. 267.
Weeder. N. J. Vanskike and G. H. Ebert. No. 987,512; Mar. 21; Sp. p. 3691; Gaz. vol. 164; p. 659.
Weeder. H. P. Stewart. No. 993,900; May 30; Sp. p. 6578; Gaz. vol. 166; p. 1185.
Weeder. G. Thomas. No. 997,640; July 11; Sp. p. 2179; Gaz. vol. 168; p. 386.
Weeder. A. E. and E. G. Quickel. No. 1,001,442; Aug. 22; Sp. p. 4814; Gaz. vol. 169; p. 867.
Weeder. E. Dettloff. No. 1,005,813; Oct. 17; Sp. p. 2716; Gaz. vol. 171; p. 497.
Weeder. F. B. Sprague. No. 1,010,084; Nov. 28; Sp. p. 5384; Gaz. vol 172; p. 965.
Weeder. J. F. Dvorak. No. 1,011,417; Dec. 12; Sp. p. 2284; Gaz. vol. 173; p. 390.
Weeder and cultivator. G. C. and H. K. Wolfe. No. 981,512; Jan. 10; Sp. p. 3025; Gaz. vol. 162; p. 493.
Weeder and cultivator, Rotary. J. Ainslie. No. 1,003,408; Sept. 19; Sp. p. 2655; Gaz. vol. 170; p. 489.
Weeder and hoe. L. E. Whitaker. No. 998,661; July 25; Sp. p. 4489; Gaz. vol. 168; p. 819.
Weeder, Rotary. W. R. Buckman. No. 980,194; Jan. 3; Sp. p. 28; Gaz. vol. 162; p. 8.
Weeding implement. W. P. Fox. No. 1,007,656; Oct. 31; Sp. p. 6823; Gaz. vol. 171; p. 1226.
Weeding-machine. H. H. Brittan. No. 981,973; Jan. 17; Sp. p. 4036; Gaz. vol. 162; p. 674.
Weeding-machine. H. B. Etheridge. No. 989,136; Apr. 11; Sp. p. 1770; Gaz. vol. 165; p. 308.
Weedless hook. E. Doddridge. No. 983,353; Feb. 7; Sp. p. 205; Gaz. vol. 163; p. 35.
Weevil, Compound for destroying boll-. R. B. Armentrout. No. 987,102; Mar. 21; Sp. p. 2799; Gaz. vol. 164; p. 515.
Weevil trap, Boll-. W. C. Lee. No. 997,141; July 4; Sp. p. 1145; Gaz. vol. 168; p. 185.
Weighing and filling machine, Automatic. F. J. Heybach. No. 991,305; May 2; Sp. p. 1026; Gaz. vol. 166; p. 172.
Weighing and packing machine, Automatic. L. Depew. No. 981,391; Jan. 10; Sp. p. 2773; Gaz. vol. 162; p. 451.
Weighing and vending machine. J. O. Fowler. No. 985,890; Mar. 7; Sp. p. 281; Gaz. vol. 164; p. 45.
Weighing apparatus. H. B. Osgood. (Reissue.) No. 13,216; Mar. 7; Sp. p. 1411; Gaz. vol. 164; p. 227.
Weighing apparatus. H. B. Osgood and G. Ayres. No. 1,007,231; Oct. 31; Sp. p. 5911; Gaz. vol. 171; p. 1079.
Weighing apparatus. H. B. Osgood. No. 1,012,270; Dec. 19; Sp. p. 4209; Gaz. vol. 173; p. 722.
Weighing apparatus, Electric. F. Feinstein and J. W. Ewart. No. 994,733; June 13; Sp. p. 1381; Gaz. vol. 167; p. 258.
Weighing attachment for refrigerators. W. P. Kennedy. No. 993,836; May 30; Sp. p. 6470; Gaz. vol. 166; p. 1165.
Weighing device. D. C. McCan. No. 982,381; Jan. 24; Sp. p. 4877; Gaz. vol. 162; p. 844.
Weighing device. W. B. Rowland and R. B. Grover. No. 990,597; Apr. 25; Sp. p. 5014; Gaz. vol. 165; p. 873.
Weighing device, Electrically-controlled. W. S. Smith. No. 1,001,562; Aug. 22; Sp. p. 5034; Gaz. vol. 169; p. 907.
Weighing device for elevators. E. P. Kilcoyne. No. 1,003,913; Sept. 19; Sp. p. 3722; Gaz. vol. 170; p. 663.
Weighing liquids contained in storage-reservoirs, Device for. T. Hillmer. No. 988,342; Apr. 4; Sp. p. 105; Gaz. vol. 165; p. 19.
Weighing-machine. J. A. Mansen. No. 995,021; June 13; Sp. p. 2034; Gaz. vol. 167; p. 356.
Weighing-machine. A. Michel. No. 997,203; July 4; Sp. p. 1270; Gaz. vol. 168; p. 207.
Weighing-machine. S. W. Groome. No. 1,012,632; Dec. 26; Sp. p. 4956; Gaz. vol. 173; p. 891.
Weighing-machine, Automatic. L. Jacobs. No. 993,069; May 23; Sp. p. 4807; Gaz. vol. 166; p. 873.
Weighing-machine, Automatic. J. Maher. No. 998,106; July 18; Sp. p. 3278; Gaz. vol. 168; p. 591.
Weighing-machine, Automatic. H. Richardson. No. 1,006,879; Oct. 24; Sp. p. 5130; Gaz. vol. 171; p. 903.
Weighing machine, Grain-. E. H. Pool. No. 999,863; Aug. 8; Sp. p. 1331; Gaz. vol. 169; p. 257.
Weighing machine, Liquid-. R. W. Ensley. No. 990,716; Apr. 25; Sp. p. 5291; Gaz. vol. 165; p. 912.
Weighing machine, Milk-. G. R. Meloney and A. F. Wood. No. 1,006,968; Oct. 24; Sp. p. 5305; Gaz. vol. 171; p. 932.
Weighing-machine, Proportioning. R. M. Cardwell and J. B. Tholen. No. 1,001,503; Aug. 22; Sp. p. 4910; Gaz. vol. 169; p. 887.
Weighing mechanism. E. H. Messiter. No. 998,974; July 25; Sp. p. 5222; Gaz. vol. 168; p. 931.
Weight, Dress-. C. E. Knapp. No. 1,004,439; Sept. 26; Sp. p. 4956; Gaz. vol. 170; p. 872.
Weight-motor. L. P. Normandin. No. 992,979; May 23; Sp. p. 4616; Gaz. vol. 166; p. 842.
Weight motor, Multiple-. J. S. Maxfield. No. 995,977; June 20; Sp. p. 4095; Gaz. vol. 167; p. 713.
Weight-recording apparatus. L. V. Labelle. No. 989,785; Apr. 18; Sp. p. 3200; Gaz. vol. 165; p. 562.
Weight registering and recording mechanism for refrigerators. J. V. Mitchell. No. 988,126; Mar. 28; Sp. p. 5053; Gaz. vol. 164; p. 897.
Welding-burner. J. B. Burdett. No. 1,002,135; Aug. 29; Sp. p. 6249; Gaz. vol. 169; p. 1130.
Welding chain-links. B. Rappos. No. 995,565; June 20; Sp. p. 3196; Gaz. vol. 167; p. 568.
Welding chain-links, Machine for electrically. C. L. Hoff. No. 1,001,271; Aug. 22; Sp. p. 4451; Gaz. vol. 169; p. 809.
Welding-clamp. A. E. Hart. No. 1,007,351; Oct. 31; Sp. p. 6153; Gaz. vol. 171; p. 1122.
Welding compound. R. N. Ruyle. No. 999,403; Aug. 1; Sp. p. 418; Gaz. vol. 169; p. 74.
Welding dies, Link-. W. Scrimgeour. No. 1,008,371; Nov. 14; Sp. p. 1645; Gaz. vol. 172; p. 293.
Welding, Electric. E. Thomson. No. 984,719; Feb. 21; Sp. p. 3200; Gaz. vol. 163; p. 566.
Welding, Electric. L. S. Lachman. No. 1,004,795; Oct. 3; Sp. p. 527; Gaz. vol. 171; p. 87.
Welding, Electric seam-. M. J. Farquhar. No. 1,000,967; Aug. 15; Sp. p. 3764; Gaz. vol. 169; p. 672.
Welding, Electrical. N. Macneale. No. 990,489; Apr. 25; Sp. p. 4784; Gaz. vol. 165; p. 836.
Welding lapped sheet metal, Electrically. G. W. Knapp. No. 993,307; May 23; Sp. p. 5286; Gaz. vol. 166; p. 948.
Welding-machine. G. E. Dean. No. 1,006,536; Oct. 24; Sp. p. 4367; Gaz. vol. 171; p. 782.
Welding-machine. G. E. Dean. No. 1,006,537; Oct. 24; Sp. p. 4369; Gaz. vol. 171; p. 783.
Welding-machine, Automatic electric. A. F. Rietzel. No. 985,838; Mar. 7; Sp. p. 164; Gaz. vol. 164; p. 28.
Welding-machine burner. A. E. Wilshusen. No. 1,006,890; Oct. 24; Sp. p. 5163; Gaz. vol. 171; p. 907.
Welding-machine contact, Electric-. A. F. Rietzel. No. 1,002,758; Sept. 5; Sp. p. 1284; Gaz. vol. 170; p. 193.
Welding-machine, Electric. L. M. Pryor and J. L. Trapp. No. 984,603; Feb. 21; Sp. p. 2944; Gaz. vol. 163; p. 523.
Welding-machine, Electric. J. L. Hall and A. Metzger. No. 996,406; June 27; Sp. p. 5108; Gaz. vol. 167; p. 894.
Welding-machine, Electric. A. F. Rietzel. No. 1,001,888; Aug. 29; Sp. p. 5762; Gaz. vol. 169; p. 1050.
Welding-machine, Electrical. E. E. McIntyre. No. 986,845; Mar. 14; Sp. p. 2308; Gaz. vol. 164; p. 400.
Welding metal. W. M. Whitney. No. 986,528; Mar. 14; Sp. p. 1638; Gaz. vol. 164; p. 291.
Welding or cutting torch. J. B. Burdett. No. 1,002,136; Aug. 29; Sp. p. 6250; Gaz. vol. 169; p. 1130.
Welding press, Chain-link-. A. S. Standish. No. 996,947; July 4; Sp. p. 724; Gaz. vol. 168; p. 118.
Welding protuberances on sheet metal, &c., Forming. E. Katzinger. No. 1,005,980; Oct. 17; Sp. p. 3102; Gaz. vol. 171; p. 557.
Welding sheet metal. O. C. Knipe. No. 1,001,049; Aug. 22; Sp. p. 4006; Gaz. vol. 169; p. 736.

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Welding tire and like joints, Apparatus for. H. Siegmann. No. 1,000,350; Aug. 8; Sp. p. 2405; Gaz. vol. 169; p. 423.
Welding-torch construction. J. B. Burdett. No. 1,002,134; Aug. 29; Sp. p. 6247; Gaz. vol. 169; p. 1129.
Well-borer. T. Noble. No. 1,002,743; Sept. 5; Sp. p. 1260; Gaz. vol. 170; p. 188.
Well-boring apparatus. A. G. Collins. No. 993,507; May 30; Sp. p. 5746; Gaz. vol. 166; p. 1050.
Well-boring machines, Spudding device for. G. P. Riggs. No. 1,006,794; Oct. 24; Sp. p. 4927; Gaz. vol. 171; p. 872.
Well-casing. H. C. Hogarth. No. 997,191; July 4; Sp. p. 1248; Gaz. vol. 168; p. 203.
Well-casing. B. U. Hiester. No. 1,001,523; Aug. 22; Sp. p. 4947; Gaz. vol. 169; p. 894.
Well-casing. B. U. Hiester. No. 1,009,515; Nov. 21; Sp. p. 4228; Gaz. vol. 172; p. 728.
Well-casing cutter. H. Mead. No. 1,001,548; Aug. 22; Sp. p. 4999; Gaz. vol. 169; p. 902.
Well-casing elevator. J. F. Thompson. No. 1,003,546; Sept. 19; Sp. p. 2952; Gaz. vol. 170; p. 538.
Well-casing perforator. H. Jam. No. 1,002,153; Aug. 29; Sp. p. 6280; Gaz. vol. 169; p. 1136.
Well-casing placer. J. Commetti. No. 995,662; June 20; Sp. p. 3426; Gaz. vol. 167; p. 604.
Well-casing slitter and perforator. F. M. Lovell. No. 1,001,205; Aug. 22; Sp. p. 4327; Gaz. vol. 169; p. 788.
Well-casing spear. J. B. Norris. No. 985,197; Feb. 28; Sp. p. 4193; Gaz. vol. 163; p. 763.
Well-casing spear. C. A. Rasmussen. No. 1,011,645; Dec. 12; Sp. p. 2844; Gaz. vol. 173; p. 474.
Well-cleaner. C. F. Smith. No. 999,603; Aug. 1; Sp. p. 802; Gaz. vol. 169; p. 140.
Well construction, Gas-. G. H. Trainer. No. 1,009,943; Nov. 28; Sp. p. 5080; Gaz. vol. 172; p. 916.
Well control, Oil-. J. E. Suits and R. B. Armstrong. No. 989,441; Apr. 11; Sp. p. 2432; Gaz. vol. 165; p. 411.
Well-digging apparatus. C. B. Martin. No. 1,003,284; Sept. 12; Sp. p. 2415; Gaz. vol. 170; p. 415.
Well discharger and cleanser. A. S. Chivers. No. 990,801; Apr. 25; Sp. p. 5469; Gaz. vol. 165; p. 941.
Well-drill. S. D. Wham. No. 1,006,160; Oct. 17; Sp. p. 3495; Gaz. vol. 171; p. 620.
Well-drill. G. M. Kriebel. No. 1,011,818; Dec. 12; Sp. p. 3182; Gaz. vol. 173; p. 532.
Well drill and underreamer, Combined. H. Jam. No. 1,002,152; Aug. 29; Sp. p. 6279; Gaz. vol. 169; p. 1135.
Well-drill, Multiple-tool. J. N. Lewis. No. 996,595; June 27; Sp. p. 5472; Gaz. vol. 167; p. 957.
Well-drills, Rope-eye for. J. J. Herndon. No. 989,257; Apr. 11; Sp. p. 2044; Gaz. vol. 165; p. 349.
Well-drilling apparatus. S. S. O'Connor. No. 989,184; Apr. 11; Sp. p. 1873; Gaz. vol. 165; p. 325.
Well-drilling apparatus. A. G. Collins. No. 996,002; June 20; Sp. p. 4143; Gaz. vol. 167; p. 721.
Well-drilling apparatus. J. Darling. No. 1,011,324; Dec. 12; Sp. p. 2104; Gaz. vol. 173; p. 359.
Well-drilling appliance. W. E. A. Pipher. No. 1,005,301; Oct. 10; Sp. p. 1596; Gaz. vol. 171; p. 287.
Well-drilling device. R. R. Sanderson. No. 993,882; May 30; Sp. p. 6548; Gaz. vol. 166; p. 1180.
Well-drilling device. J. T. Owen. No. 998,385; July 18; Sp. p. 3908; Gaz. vol. 168; p. 692.
Well-drilling, Flexible friction-splice for. J. I. Michaels and L. Gillette. No. 999,461; Aug. 1; Sp. p. 525; Gaz. vol. 169; p. 92.
Well-drilling machine. T. H. Kerr. No. 983,064; Jan. 31; Sp. p. 6353; Gaz. vol. 162; p. 1104.
Well-drilling machine. S. Morimura. No. 984,287; Feb. 14; Sp. p. 2258; Gaz. vol. 163; p. 382.
Well-drilling machine. J. W. Jennings. No. 990,743; Apr. 25; Sp. p. 5340; Gaz. vol. 165; p. 921.
Well-drilling machine. H. A. and A. M. Thomas. No. 1,000,459; Aug. 15; Sp. p. 2658; Gaz. vol. 169; p. 493.
Well-drilling machine. T. McCord and W. C. Bigler. No. 1,010,507; Dec. 5; Sp. p. 249; Gaz. vol. 173; p. 39.
Well-drilling rigs, Crown-block for. A. C. Zierath. No. 1,002,952; Sept. 12; Sp. p. 1730; Gaz. vol. 170; p. 300.
Well-drilling tool. C. E. Wilcox. No. 1,002,793; Sept. 5; Sp. p. 1351; Gaz. vol. 170; p. 205.
Well-driving point. J. H. Berky. No. 1,004,528; Sept. 26; Sp. p. 5124; Gaz. vol. 170; p. 902.
Well-heating-apparatus, Oil-. W. B. Wigle. No. 1,012,777; Dec. 26; Sp. p. 5287; Gaz. vol. 173; p. 942.
Well mechanism. M. E. Layne. No. 998,186; July 18; Sp. p. 3434; Gaz. vol. 168; p. 619.
Well-packer. A. C. Graham. No. 995,250; June 13; Sp. p. 2487; Gaz. vol. 167; p. 431.
Well packer, Oil-. P. H. Mack. No. 1,009,327; Nov. 21; Sp. p. 3802; Gaz. vol. 172; p. 662.
Well packer, Oil-. P. H. Mack. No. 1,009,328; Nov. 21; Sp. p. 3805; Gaz. vol. 172; p. 662.
Well packers, Water-discharge attachment for deep-. G. F. Hovis. No. 997,915; July 11; Sp. p. 2820; Gaz. vol. 168; p. 482.
Well-pipe lifter. J. C. Rondebush. No. 990,391; Apr. 25; Sp. p. 4541; Gaz. vol. 165; p. 802.
Well pulling and cleaning machine. O. D. Kraft and L. W. Fetzer. No. 986,181; Mar. 7; Sp. p. 889; Gaz. vol. 164; p. 144.
Well shut-off. C. B. Thompson. No. 991,392; May 2; Sp. p. 1211; Gaz. vol. 166; p. 201.
Well-sinking apparatus. G. R. Moore. No. 1,007,723; Nov. 7; Sp. p. 154; Gaz. vol. 172; p. 25.
Well-sinking machines, Trip mechanism for. H. H. Haight. No. 999,026; July 25; Sp. p. 5332; Gaz. vol. 168; p. 949.
Well spear or point, Driven-. J. Sharp. No. 1,012,727; Dec. 26; Sp. p. 5164; Gaz. vol. 173; p. 925.
Well-strainer. D. D. James. No. 1,012,557; Dec. 19; Sp. p. 4781; Gaz. vol. 173; p. 821.
Well-tubing cage or support. H. C. Harpham. No. 982,057; Jan. 17; Sp. p. 4213; Gaz. vol. 162; p. 702.
Wells, Apparatus for constructing sand. A. P. Schnyder. No. 1,001,085; Aug. 22; Sp. p. 4091; Gaz. vol. 169; p. 750.
Wells, Blow-valve for gas-. A. N. Alten and O. David. No. 999,731; Aug. 8; Sp. p. 1071; Gaz. vol. 169; p. 213.
Wells, Calf-wheel for oil-. W. A. Greer and D. L. Turner. No. 1,013,012; Dec. 26; Sp. p. 5834; Gaz. vol. 173; p. 1021.
Wells, Cementing oil-. A. A. Perkins and E. Double. No. 1,011,484; Dec. 12; Sp. p. 2441; Gaz. vol. 173; p. 416.
Wells, Ejector for. J. B. Tait and T. Maloney. No. 981,716; Jan. 17; Sp. p. 3440; Gaz. vol. 162; p. 582.
Wells, Fishing-tool for oil or other. G. A. Kemper. No. 1,000,817; Aug. 15; Sp. p. 3450; Gaz. vol. 169; p. 621.
Wells, Forming. G. S. Lodwick. No. 1,009,159; Nov. 21; Sp. p. 3390; Gaz. vol. 172; p. 600.
Wells, Heaving-plug for oil-. E. N. Moor. No. 987,812; Mar. 28; Sp. p. 4335; Gaz. vol. 164; p. 789.
Wells, Mechanism for elevating torpedoes into mouths of. L. H. Broadwater. No. 1,004,554; Oct. 3; Sp. p. 8; Gaz. vol. 171; p. 4.
Wells, Packer for operating gas, water, and oil. A. S. Cooper. No. 1,000,583; Aug. 15; Sp. p. 2949; Gaz. vol. 169; p. 540.
Wells, Rope-socket for oil-. W. C. Butler and A. L. Eaton. No. 991,196; May 2; Sp. p. 788; Gaz. vol. 166; p. 133.
Wells to generate power, Method of and means for utilizing water in driven or drive. J. C. Fountain. No. 1,010,609; Dec. 5; Sp. p. 471; Gaz. vol. 173; p. 73.
Welt-butting machine. E. E. Winkley. No. 984,631; Feb. 21; Sp. p. 3005; Gaz. vol. 163; p. 533.
Welt-laying machine. H. W. Winter. No. 1,005,394; Oct. 10; Sp. p. 1791; Gaz. vol. 171; p. 320.
Welt-shank cutter. A. B. Exler. No. 1,003,349; Sept. 12; Sp. p. 2547; Gaz. vol. 170; p. 438.
Welt-splitting device. F. H. Hawkins. No. 1,003,181; Sept. 12; Sp. p. 2195; Gaz. vol. 170; p. 377.
Welts, Machine for beating out. L. Goddu. No. 989,346; Apr. 11; Sp. p. 2238; Gaz. vol. 165; p. 379.
Welts, Machine for operating on. J. Gouldbourn. No. 996,483; June 27; Sp. p. 5253; Gaz. vol. 167; p. 921.
Wheat and vegetable extract in the form of portable unit rations and producing the same. J. C. W. Rademacher. No. 1,007,142; Oct. 31; Sp. p. 5714; Gaz. vol. 171; p. 1048.
Wheat, Preparing. J. Brewster. No. 1,012,979; Dec. 26; Sp. p. 5764; Gaz. vol. 173; p. 1010.
Wheat-scouring machine. H. A. Wallis. No. 981,828; Jan. 17; Sp. p. 3690; Gaz. vol. 162; p. 624.
Wheat-separating machine. N. L. Heldman. No. 987,460; Mar. 21; Sp. p. 3601; Gaz. vol. 164; p. 641.
Wheel: *See* Automobile-wheel; Automobile spring-wheel; Automobile steering-wheel; Buffing-wheel; Buffing or polishing wheel; Bull-wheel; Burnishing-wheel; Car-wheel; Counting-wheel; Cultivator-wheel; Cushioned wheel; Detachable wheel; Driving-wheel; Elastic wheel; Elastic-hub wheel; Engine driving-wheel; Escapement-wheel; Fifth-wheel; Flexible-band wheel; Fly-wheel; Gapped wheel; Gear-wheel; Grinding-wheel; Impulse-wheel; Metallic wheel; Paddle-wheel; Plow-motor guide-wheel; Pneumatic wheel; Pneumatic-spoke wheel; Power-wheel; Propeller-wheel; Propelling-wheel; Resilient wheel; Resilient-tread wheel; Sanding-wheel; Sectional wheel; Self-lubricating wheel; Self-oiling wheel; Skate-wheel; Spring-wheel; Spring-tire wheel; Sprocket-wheel; Steamboat-wheel; Steel-wheel; Steering-wheel; Suspension-wheel; Traction-wheel; Trolley-wheel; Truck-wheel; Variable wheel; Vehicle-wheel; Vehicle resilient wheel; Vehicle steering-wheel; Water-wheel; Wind-wheel; Yieldable wheel.
Wheel. E. H. Copenhaver and W. Colvin. No. 980,607; Jan. 3; Sp. p. 927; Gaz. vol. 162; p. 150.
Wheel. C. W. Seeley and C. S. Ross. No. 981,128; Jan. 10; Sp. p. 2180; Gaz. vol. 162; p. 359.
Wheel. M. J. and P. P. Adams. No. 982,455; Jan. 24; Sp. p. 5054; Gaz. vol. 162; p. 872.
Wheel. C. Carpenter. No. 986,906; Mar. 14; Sp. p. 2444; Gaz. vol. 164; p. 422.
Wheel. V. O. Mervine. No. 987,009; Mar. 14; Sp. p. 2631; Gaz. vol. 164; p. 454.
Wheel. J. A. Landis. No. 987,891; Mar. 28; Sp. p. 4530; Gaz. vol. 164; p. 817.
Wheel. H. W. Morgan. No. 988,368; Apr. 4; Sp. p. 169; Gaz. vol. 165; p. 28.
Wheel. N. H. Rankin. No. 989,190; Apr. 11; Sp. p. 1883; Gaz. vol. 165; p. 327.

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Wheel. J. L. Spoonts and E. M. Eubank. No. 989,437; Apr. 11; Sp. p. 2425; Gaz. vol. 165; p. 409.
Wheel. E. Geiger. No. 990,251; Apr. 25; Sp. p. 4215; Gaz. vol. 165; p. 751.
Wheel. T. L. Ramsey. No. 991,645; May 9; Sp. p. 1758; Gaz. vol. 166; p. 322.
Wheel. T. Wilhelm. No. 993,486; May 30; Sp. p. 5699; Gaz. vol. 166; p. 1043.
Wheel. D. J. Scheele. No. 995,295; June 13; Sp. p. 2576; Gaz. vol. 167; p. 446.
Wheel. J. B. Frost. No. 996,575; June 27; Sp. p. 5434; Gaz. vol. 167; p. 950.
Wheel. W. B. Lloyd. No. 999,379; Aug. 1; Sp. p. 373; Gaz. vol. 169; p. 66.
Wheel. H. Mayer. No. 1,001,058; Aug. 22; Sp. p. 4022; Gaz. vol. 169; p. 740.
Wheel. F. F. Eno. No. 1,001,939; Aug. 29; Sp. p. 5877; Gaz. vol. 169; p. 1067.
Wheel. R. Riehl. No. 1,003,123; Sept. 12; Sp. p. 2072; Gaz. vol. 170; p. 357.
Wheel. J. Heibeck. No. 1,004,023; Sept. 26; Sp. p. 4038; Gaz. vol. 170; p. 729.
Wheel. S. P. Johnson. No. 1,004,655; Oct. 3; Sp. p. 225; Gaz. vol. 171; p. 39.
Wheel. T. S. Chesnutt. No. 1,005,103; Oct. 3; Sp. p. 1134; Gaz. vol. 171; p. 191.
Wheel. G. J. Bradbury. No 1,006,179; Oct. 17; Sp. p. 3549; Gaz. vol. 171; p. 628.
Wheel. G. M. and G. T. Badger. No. 1,008,517; Nov. 14; Sp. p. 2013; Gaz. vol. 172; p. 344.
Wheel. J. E. Strietelmeier. No. 1,008,679; Nov. 14; Sp. p. 2385; Gaz. vol. 172; p. 403.
Wheel. F. A. Frommann. No. 1,009,062; Nov. 21; Sp. p. 3204; Gaz. vol. 172; p. 568.
Wheel. C. Kehr. No. 1,009,151; Nov. 21; Sp. p. 3372; Gaz. vol. 172; p. 597.
Wheel. R. von Fabrice. No. 1,010,484; Dec. 5; Sp. p. 187; Gaz. vol. 173; p. 31.
Wheel. E. J. Nelson and F. H. Lang. No. 1,010,786; Dec. 5; Sp. p. 865; Gaz. vol. 173; p. 135.
Wheel. M. A. Ewald. No. 1,011,334; Dec. 12; Sp. p. 2125; Gaz. vol. 173; p. 363.
Wheel. G. X. Leffler. No. 1,011,351; Dec. 12; Sp. p. 2162; Gaz. vol. 173; p. 368.
Wheel. I. D. and F. A. Minor. No. 1,011,987; Dec. 19; Sp. p. 3573; Gaz. vol. 173; p. 625.
Wheel and axle, Combined. G. P. Eustis. No. 990,038; Apr. 18; Sp. p. 3743; Gaz. vol. 165; p. 647.
Wheel attachment, Vehicle H. L. Keiper and F. W. Carlton. No. 992,879; May 23; Sp. p. 4390; Gaz. vol. 166; p. 806.
Wheel auxiliary rim, Vehicle-. A. Latimer. No. 1,009,423; Nov. 21; Sp. p. 4040; Gaz. vol. 172; p. 697.
Wheel-blank, Metal. E. E. Slick. No. 993,117; May 23; Sp. p. 4922; Gaz. vol. 166; p. 890.
Wheel-brake. S. D. Forman. No. 1,010,883; Dec. 5; Sp. p. 1079; Gaz. vol. 173; p. 169.
Wheel-brake, Vehicle. W. L. Sterling. No. 983,947; Feb. 14; Sp. p. 1507; Gaz. vol. 163; p. 265.
Wheel construction. E. E. Slick. No. 1,001,087; Aug. 22; Sp. p. 4094; Gaz. vol. 169; p. 750.
Wheel construction. W. H. Green. No. 1,004,417; Sept. 26; Sp. p. 4899; Gaz. vol. 170; p. 863.
Wheel-cutting machine. M. Pedersen. No. 984,777; Feb. 21; Sp. p. 3324; Gaz. vol. 163; p. 586.
Wheel-cutting machine. T. Greenwood. No. 1,008,031; Nov. 7; Sp. p. 831; Gaz. vol. 172; p. 132.
Wheel demountable rim. J. W. Farnoff. No. 981,181; Jan. 10; Sp. p. 2288; Gaz. vol. 162; p. 378.
Wheel-detacher. V. W. Straub. No. 984,978; Feb. 21; Sp. p. 3692; Gaz. vol. 163; p. 652.
Wheel-driving mechanism. J. Berends. No. 986,262; Mar. 7; Sp. p. 1066; Gaz. vol. 164; p. 170.
Wheel-fastener. J. E. Davis. No. 982,413; Jan. 24; Sp. p. 4936; Gaz. vol. 162; p. 855.
Wheel-fender. F. Lillich. No. 1,011,214; Dec. 12; Sp. p. 1834; Gaz. vol. 173; p. 318.
Wheel-flange lubricator. P. Conniff. No. 990,034; Apr. 18; Sp. p. 3735; Gaz. vol. 165; p. 647.
Wheel-grip. P. J. Stenson. No. 984,046; Feb. 14; Sp. p. 1730; Gaz. vol. 163; p. 298.
Wheel-guard. W. T. Watson. No. 993,209; May 23; Sp. p. 5097; Gaz. vol. 166; p. 919.
Wheel-guard. F. L. Sullivan. No. 1,001,902; Aug. 29; Sp. p. 5790; Gaz. vol. 169; p. 1055.
Wheel-holding device. H. H. Gallagher. No. 999,775; Aug. 8; Sp. p. 1148; Gaz. vol. 169; p. 227.
Wheel-holding device, Spare-. J. H. Hall. No. 981,555; Jan. 10; Sp. p. 3108; Gaz. vol. 162; p. 507.
Wheel lock, Steering-. T. D. Stanley. No. 985,468; Feb. 28; Sp. p. 4812; Gaz. vol. 163; p. 855.
Wheel mask and attachment, Toothed-. T. F. Broadfield. No. 1,004,980; Oct. 3; Sp. p. 914; Gaz. vol. 171; p. 151.
Wheel-mounting. W. F. Swoveland. No. 1,007,315; Oct. 31; Sp. p. 6079; Gaz. vol. 171; p. 1109.
Wheel-puller for motor-vehicles. J. B. Allen and W. Bowler. No. 1,011,140; Dec. 12; Sp. p. 1661; Gaz. vol. 173; p. 293.
Wheel-rim. H. J. Graves. No. 1,013,011; Dec. 26; Sp. p. 5833; Gaz. vol. 173; p. 1020.
Wheel-rim, Detachable. A. D. Foucart. No. 989,494; Apr. 11; Sp. p. 2531; Gaz. vol. 165; p. 428.
Wheel-rim, Detachable. J. W. Hall and C. Baynes. No. 1,010,621; Dec. 5; Sp. p. 498; Gaz. vol. 173; p. 78.
Wheel-rim, Detachable. K. Kindscherf. No. 1,012,367; Dec. 19; Sp. p. 4415; Gaz. vol. 173; p. 755.
Wheel-rim support. E. V. Hartford. No. 996,241; June 27; Sp. p. 4704; Gaz. vol. 167; p. 837.
Wheel-rim, Vehicle. G. Webb. No. 983,789; Feb. 7; Sp. p. 1135; Gaz. vol. 163; p. 182.
Wheel-rim, Vehicle. E. C. Shaw. No. 1,009,347; Nov. 21; Sp. p. 3842; Gaz. vol. 172; p. 669.
Wheel-rim, Vehicle. E. C. Shaw. No. 1,009,445; Nov. 21; Sp. p. 4086; Gaz. vol. 172; p. 704.
Wheel-rim, Vehicle. E. H. Koken. No. 1,009,529; Nov. 21; Sp. p. 4256; Gaz. vol. 172; p. 733.
Wheel-rims, Locking and shifting mechanism for demountable. J. W. Farnoff. No. 994,828; June 13; Sp. p. 1615; Gaz. vol. 167; p. 291.
Wheel sand-band, Vehicle-. J. N. Rickards. No. 982,994; Jan. 31; Sp. p. 6192; Gaz. vol. 162; p. 1079.
Wheel-scraping implement. R. Mansfield. No. 993,087; May 23; Sp. p. 4844; Gaz. vol. 166; p. 879.
Wheel-securing device. I. O. Johnson. No. 993,172; May 23; Sp. p. 5022; Gaz. vol. 166; p. 907.
Wheel shifter, Automatic friction-. A. A. Lapointe. No. 1,006,957; Oct. 24; Sp. p. 5280; Gaz. vol. 171; p. 929.
Wheel structure. M. Goldsmith. No. 1,001,753; Aug. 29; Sp. p. 5456; Gaz. vol. 169; p. 1004.
Wheel structure, Spring-. W. P. Airheart. No. 1,002,110; Aug. 29; Sp. p. 6201; Gaz. vol. 169; p. 1121.
Wheel-supports, Hub-clamp for vehicle. C. W. Richards. No. 984,026; Feb. 14; Sp. p. 1697; Gaz. vol. 163; p. 292.
Wheel-tire-carrying rim, Vehicle. G. Webb. No. 997,877; July 11; Sp. p. 2729; Gaz. vol. 168; p. 468.
Wheel traction attachment. O. H. Wisenant. No. 980,728; Jan. 3; Sp. p. 1188; Gaz. vol. 162; p. 189.
Wheel-tread, Jointed. L. T. Knowles. No. 1,009,154; Nov. 21; Sp. p. 3377; Gaz. vol. 172; p. 598.
Wheel-turning device. W. Cushing. No. 1,000,898; Aug. 15; Sp. p. 3616; Gaz. vol. 169; p. 650.
Wheel with a special rim for the brake. A. Kästner. No. 982,368; Jan. 24; Sp. p. 4854; Gaz. vol. 162; p. 840.
Wheel with multiple and balanced rims. H. Lotte. No. 987,471; Mar. 21; Sp. p. 3618; Gaz. vol. 164; p. 644.
Wheels and nuts, Tool for removing vehicle. E. Bowen. No. 1,010,223; Nov. 28; Sp. p. 5648; Gaz. vol. 172; p. 1011.
Wheels, Antislipping device for vehicle-. T. C. Martin. No. 999,384; Aug. 1; Sp. p. 383; Gaz. vol. 169; p. 67.
Wheels, Centrifugal oiling-bearing for car and other. F. A. Warren. No. 1,002,614; Sept. 5; Sp. p. 975; Gaz. vol. 170; p. 144.
Wheels, Cushion attachment for. R. Ulrich. No. 999,609; Aug. 1; Sp. p. 813; Gaz. vol. 169; p. 142.
Wheels, Gripping device for securing auxiliary or spare rims to automobile-. A. Manson. No. 1,012,879; Dec. 26; Sp. p. 5535; Gaz. vol. 173; p. 976.
Wheels, Machine for making metal. E. Einfeldt. No. 982,259; Jan. 24; Sp. p. 4607; Gaz. vol. 162; p. 800.
Wheels, Machine for refacing band-saw. H. D. Fields. No. 1,003,350; Sept. 12; Sp. p. 2550; Gaz. vol. 170; p. 439.
Wheels, Manufacturing turbine bucket-. J. Wilkinson. No. 1,005,736; Oct. 10; Sp. p. 2554; Gaz. vol. 171; p. 439.
Wheels of motor-cars and other vehicles, Detachable rim-flange for the. T. E. Bridgman. No. 997,745; July 11; Sp. p. 2427; Gaz. vol. 168; p. 423.
Wheels or pulleys, Manufacturing. E. H. Jones. No. 987,141; Mar. 21; Sp. p. 2888; Gaz. vol. 164; p. 530.
Wheels, Runner attachment for. C. J. Thim. No. 983,324; Feb. 7; Sp. p. 145; Gaz. vol. 163; p. 26.
Wheels, Sheath for vehicle-. W. K. Omick. No. 985,538; Feb. 28; Sp. p. 4971; Gaz. vol. 163; p. 880.
Wheelbarrow. W. Boszol. No. 983,200; Jan. 31; Sp. p. 6596; Gaz. vol. 162; p. 1148.
Wheelbarrow. G. Minor. No. 990,822; Apr. 25; Sp. p. 5508; Gaz. vol. 165; p. 949.
Wheelbarrow-runner attachment. N. Yack. No. 1,012,043; Dec. 19; Sp. p. 3710; Gaz. vol. 173; p. 646.
Wheelbarrows, Wearing-shoe for. G. B. Tallman. No. 993,805; May 30; Sp. p. 6399; Gaz. vol. 166; p. 1153.
Whetstone. F. J. Scrable. No. 1,002,086; Aug. 29; Sp. p. 6161; Gaz. vol. 169; p. 1114.
Whetstone-case. D. I. Whiteside. No. 1,008,878; Nov. 14; Sp. p. 2791; Gaz. vol. 172; p. 470.
Whiffletree. W. M. Byrd. No. 980,486; Jan. 3; Sp. p. 670; Gaz. vol. 162; p. 109.
Whiffletree. O. H. Smith. No. 982,639; Jan. 24; Sp. p. 5399; Gaz. vol. 162; p. 932.
Whiffletree. C. Hegeseth, Jr. No. 1,008,903; Nov. 14; Sp. p. 2840; Gaz. vol. 172; p. 478.
Whiffletree and neck-yoke safety-clip. G. S. MacLeod. No. 997,457; July 11; Sp. p. 1776; Gaz. vol. 168; p. 322.
Whiffletree attachment. W. W. Bates. No. 1,000,981; Aug. 22; Sp. p. 3820; Gaz. vol. 169; p. 712.
Whiffletree attachment. J. Whitworth. No. 1,001,790; Aug. 29; Sp. p. 5532; Gaz. vol. 169; p. 1016.
Whiffletree-clip, Safety. G. S. MacLeod. No. 992,787; May 23; Sp. p. 4184; Gaz. vol. 166; p. 773.

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Whiffletree-hook and trace-fastener. A. Roop. No. 995,908; June 20; Sp. p. 3967; Gaz. vol. 167; p. 688.
Whip. D. C. Hull. No. 983,057; Jan. 31; Sp. p. 6342; Gaz. vol. 162; p. 1102.
Whip. T. W. Reed. No. 1,005,308; Oct. 10; Sp. p. 1614; Gaz. vol. 171; p. 289.
Whip attachment. C. A. Jacky. No. 1,001,037; Aug. 22; Sp. p. 3983; Gaz. vol. 169; p. 732.
Whip-core. G. E. Whipple. No. 981,147; Jan. 10; Sp. p. 2220; Gaz. vol. 162; p. 366.
Whip-cores, Manufacturing. G. E. Whipple. No. 983,791; Feb. 7; Sp. p. 1137; Gaz. vol. 163; p. 183.
Whip-holder. G. Kaiser. No. 986,719; Mar. 14; Sp. p. 2040; Gaz. vol. 164; p. 357.
Whip-holder, Safety. L. C. Davis. No. 982,258; Jan. 24; Sp. p. 4606; Gaz. vol. 162; p. 800.
Whip-lock. J. C. Carlson. No. 984,192; Feb. 14; Sp. p. 2021; Gaz. vol. 163; p. 347.
Whip-lock. E. W. Bonner. No. 985,653; Feb. 28; Sp. p. 5194; Gaz. vol. 163; p. 918.
Whip-lock. H. K. King. No. 1,003,467; Sept. 19; Sp. p. 2791; Gaz. vol. 170; p. 511.
Whip-manipulator. L. Hancher. No. 999,989; Aug. 8; Sp. p. 1593; Gaz. vol. 169; p. 300.
Whip-operating attachment for hay-presses or the like. S. Vessot and O. Riendeau. No. 1,002,790; Sept. 5; Sp. p. 1347; Gaz. vol. 170; p. 204.
Whip-operating device. C. C. Adamson. No. 1,009,949; Nov. 28; Sp. p. 5095; Gaz. vol. 172; p. 918.
Whip-socket. R. A. Foster. No. 985,022; Feb. 21; Sp. p. 3780; Gaz. vol. 163; p. 667.
Whip-socket. W. F. Reschke and L. Rumford. No. 987,257; Mar. 21; Sp. p. 3164; Gaz. vol. 164; p. 573.
Whip-socket. C. V. Baker. No. 1,005,498; Oct. 10; Sp. p. 2024; Gaz. vol. 171; p. 355.
Whip-socket lock. W. A. Peters. No. 989,925; Apr. 18; Sp. p. 3499; Gaz. vol. 165; p. 609.
Whip-socket, Locking. C. W. Winner. No. 985,090; Feb. 21; Sp. p. 3911; Gaz. vol. 163; p. 691.
Whip-socket, Locking. B. R. Morrison. No. 996,506; June 27; Sp. p. 5291; Gaz. vol. 167; p. 928.
Whisk-broom. M. R. Hobart and J. H. Scott. No. 983,053; Jan. 31; Sp. p. 6337; Gaz. vol. 162; p. 1101.
Whistle. H. Ellison. No. 992,487; May 16; Sp. p. 3569; Gaz. vol. 166; p. 640.
Whistle. A. W. Proctor. No. 998,985; July 25; Sp. p. 5245; Gaz. vol. 168; p. 935.
Whistle. W. H. Burt. No. 1,002,493; Sept. 5; Sp. p. 704; Gaz. vol. 170; p. 103.
Whistle and fog-horn, Convertible. R. Berrenberg. No. 987,038; Mar. 14; Sp. p. 2680; Gaz. vol. 164; p. 464.
Whistle, Chime-. J. A. Anderson. No. 981,604; Jan. 17; Sp. p. 3216; Gaz. vol. 162; p. 546.
Whistle, Motor-driven. G. F. Atwood. No. 1,004,337; Sept. 26; Sp. p. 4732; Gaz. vol. 170; p. 837.
Whistle, Steam-. J. H. Yates. No. 989,936; Apr. 18; Sp. p. 3532; Gaz. vol. 165; p. 614.
Whistle, Steam-. A. T. Jolma. No. 1,000,012; Aug. 8; Sp. p. 1645; Gaz. vol. 169; p. 309.
Whistles on vessels, Device for blowing. J. S. Clarke. No. 998,159; July 18; Sp. p. 3377; Gaz. vol. 168; p. 609.
Wick, Lubricating-. E. Armstrong. No. 1,012,580; Dec. 26; Sp. p. 4839; Gaz. vol. 173; p. 873.
Wick-trimming device, Lamp-. E. Karvakko. No. 1,002,279; Sept. 5; Sp. p. 213; Gaz. vol. 170; p. 28.
Wicket-trap. A. S. Harris. No. 986,977; Mar. 14; Sp. p. 2566; Gaz. vol. 164; p. 444.
Willow. J. F. White. No. 997,723; July 11; Sp. p. 2356; Gaz. vol. 168; p. 414.
Winch. P. W. Sieurin. No. 983,845; Feb. 7; Sp. p. 1264; Gaz. vol. 163; p. 202.
Winch, Hand-logger's. F. Hogland. No. 999,369; Aug. 1; Sp. p. 353; Gaz. vol. 169; p. 62.
Winches, Gearing for. D. Wilson. No. 1,007,761; Nov. 7; Sp. p. 241; Gaz. vol. 172; p. 39.
Wind-motor. A. Norman. No. 980,995; Jan. 10; Sp. p. 1873; Gaz. vol. 162; p. 311.
Wind-motor. G. E. McClendon. No. 989,509; Apr. 11; Sp. p. 2567; Gaz. vol. 165; p. 435.
Wind-motor. C. E. Shaffer. No. 1,003,661; Sept. 19; Sp. p. 3212; Gaz. vol. 170; p. 579.
Wind-power, Apparatus for storing and distributing. S. Pichault. No. 984,599; Feb. 21; Sp. p. 2927; Gaz. vol. 163; p. 521.
Wind-shield. W. M. Bean. No. 985,245; Feb. 28; Sp. p. 4311; Gaz. vol. 163; p. 779.
Wind-shield. F. S. Avil. No. 988,538; Apr. 4; Sp. p. 529; Gaz. vol. 165; p. 84.
Wind-shield. J. H. Sprague. No. 995,301; June 13; Sp. p. 2584; Gaz. vol. 167; p. 448.
Wind-shield. R. M. Watkins. No. 995,308; June 13; Sp. p. 2599; Gaz. vol. 167; p. 450.
Wind-shield. T. Galvin. No. 996,326; June 27; Sp. p. 4911; Gaz. vol. 167; p. 866.
Wind-shield. H. L. Corbin and F. S. Martin. No. 999,631; Aug. 1; Sp. p. 853; Gaz. vol. 169; p. 149.
Wind-shield. E. Meier. No. 1,002,071; Aug. 29; Sp. p. 6136; Gaz. vol. 169; p. 1109.
Wind-shield. J. H. Sprague. No. 1,002,771; Sept. 5; Sp. p. 1312; Gaz. vol. 170; p. 197.
Wind-shield. J. Cogil. No. 1,004,850; Oct. 3; Sp. p. 657; Gaz. vol. 171; p. 107.
Wind-shield. A. L. Banker. No. 1,005,135; Oct. 10; Sp. p. 1197; Gaz. vol. 171; p. 225.
Wind-shield. A. L. Banker. No. 1,005,136; Oct. 10; Sp. p. 1200; Gaz. vol. 171; p. 225.
Wind-shield. F. A. Dillingham. No. 1,007,774; Nov. 7; Sp. p. 272; Gaz. vol. 172; p. 44.
Wind-shield. E. L. Ackerman. No. 1,010,715; Dec. 5; Sp. p. 706; Gaz. vol. 173; p. 111.
Wind-shield. T. F. Bourne. No. 1,012,239; Dec. 19; Sp. p. 4149; Gaz. vol. 173; p. 712.
Wind-shield cleaner. A. B. Beitman. No. 993,816; May 30; Sp. p. 6430; Gaz. vol. 166; p. 1159.
Wind-shield, Folding. E. H. Pratt. No. 984,848; Feb. 21; Sp. p. 3449; Gaz. vol. 163; p. 609.
Wind-shield, Sectional. W. G. Cox. No. 982,658; Jan. 24; Sp. p. 5438; Gaz. vol. 162; p. 939.
Wind-wheel. G. E. McClendon. No. 989,381; Apr. 11; Sp. p. 2310; Gaz. vol. 165; p. 390.
Wind-wheel mechanism. W. Zelnik. No. 1,005,917; Oct. 17; Sp. p. 2954; Gaz. vol. 171; p. 535.
Windmill. G. E. Feldner. No. 981,077; Jan. 10; Sp. p. 2070; Gaz. vol. 162; p. 341.
Windmill. W. P. Bennett. No. 985,131; Feb. 28; Sp. p. 4009; Gaz. vol. 163; p. 738.
Windmill. A. F. Barrow. No. 985,498; Feb. 28; Sp. p. 4875; Gaz. vol. 163; p. 865.
Windmill. J. O'Toole. No. 987,645; Mar. 21; Sp. p. 3953; Gaz. vol. 164; p. 704.
Windmill. S. Hoffer. No. 988,098; Mar. 28; Sp. p. 5012; Gaz. vol. 164; p. 889.
Windmill. A. J. Shirley. No. 989,068; Apr. 11; Sp. p. 1642; Gaz. vol. 165; p. 286.
Windmill. J. C. Hanson. No. 989,705; Apr. 18; Sp. p. 3026; Gaz. vol. 165; p. 533.
Windmill. A. F. George. No. 991,842; May 9; Sp. p. 2171; Gaz. vol. 166; p. 387.
Windmill. J. R. Sawyers. No. 992,067; May 9; Sp. p. 2604; Gaz. vol. 166; p. 463.
Windmill. C. A. Sterner. No. 993,120; May 23; Sp. p. 4926; Gaz. vol. 166; p. 891.
Windmill. F. Manning. No. 994,765; June 13; Sp. p. 1469; Gaz. vol. 167; p. 270.
Windmill. J. A. Carlson. No. 996,309; June 27; Sp. p. 4870; Gaz. vol. 167; p. 859.
Windmill. E. M. Amy. No. 998,446; July 18; Sp. p. 4016; Gaz. vol. 168; p. 713.
Windmill. C. S. and B. M. Agre. No. 999,188; July 25; Sp. p. 5629; Gaz. vol. 168; p. 1001.
Windmill. E. Woodrum. No. 999,423; Aug. 1; Sp. p. 454; Gaz. vol. 169; p. 80.
Windmill. H. Schmidt. No. 1,001,172; Aug. 22; Sp. p. 4244; Gaz. vol. 169; p. 776.
Windmill. J. McCalley. No. 1,003,630; Sept. 19; Sp. p. 3148; Gaz. vol. 170; p. 568.
Windmill. E. A. Collin. No. 1,005,602; Oct. 10; Sp. p. 2284; Gaz. vol. 171; p. 393.
Windmill. H. G. McCulloch. No. 1,006,113; Oct. 17; Sp. p. 3376; Gaz. vol. 171; p. 602.
Windmill. C. F. Craddick. No. 1,009,896; Nov. 28; Sp. p. 4985; Gaz. vol. 172; p. 900.
Windmill. K. A. Spieth. No. 1,009,935; Nov. 28; Sp. p. 5057; Gaz. vol. 172; p. 913.
Windmill. S. S. Harper. No. 1,011,618; Dec. 12; Sp. p. 2781; Gaz. vol. 173; p. 464.
Windmill-gearing. G. W. Roberts. No. 1,012,916; Dec. 26; Sp. p. 5606; Gaz. vol. 173; p. 988.
Windmill-governor. W. A. Fifield. No. 984,755; Feb. 21; Sp. p. 3272; Gaz. vol. 163; p. 577.
Windmill-lubricator. H. H. Macomber. No. 982,840; Jan. 31; Sp. p. 5840; Gaz. vol. 162; p. 1028.
Windmill-regulator. H. C. Schneider. No. 983,406; Feb. 7; Sp. p. 316; Gaz. vol. 163; p. 53.
Winder, Bobbin-. W. V. Neal. No. 997,408; July 11; Sp. p. 1691; Gaz. vol. 168; p. 307.
Winding and controlling mechanism for belts and the like. P. J. Dreher. No. 1,002,569; Sept. 5; Sp. p. 870; Gaz. vol. 170; p. 128.
Winding and measuring machine, Warp. G. W. Foster. No. 1,005,823; Oct. 17; Sp. p. 2740; Gaz. vol. 171; p. 500.
Winding and rewinding continuous webs, Device for. F. E. Caine. No. 983,602; Feb. 7; Sp. p. 754; Gaz. vol. 163; p. 118.
Winding and rolling machine, Ball. A. G. Brewer and E. H. Hawes. No. 999,482; Aug. 1; Sp. p. 561; Gaz. vol. 169; p. 99.
Winding device. H. F. Mitchell. No. 999,514; Aug. 1; Sp. p. 636; Gaz. vol. 169; p. 109.
Winding-drum. R. P. McLaughlin. No. 996,356; June 27; Sp. p. 4977; Gaz. vol. 167; p. 876.
Winding-frame. J. McCrea. No. 1,005,990; Oct. 17; Sp. p. 3117; Gaz. vol. 171; p. 560.
Winding-frames, Device for guiding and stripping thread on. A. Lentsch. No. 989,165; Apr. 11; Sp. p. 1840; Gaz. vol. 165; p. 319.
Winding-machine. R. W. Barker. No. 981,520; Jan. 10; Sp. p. 3040; Gaz. vol. 162; p. 495.

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Winding-machine. S. Kendrick. No. 992,669; May 16; Sp. p. 3936; Gaz. vol. 166; p. 702.
Winding-machine. R. C. Campbell. No. 993,151; May 23; Sp. p. 4980; Gaz. vol. 166; p. 901.
Winding-machine. W. E. Clookie. No. 995,768; June 20; Sp. p. 3671; Gaz. vol. 167; p. 640.
Winding-machine. A. Rotter. No. 998,398; July 18; Sp. p. 3931; Gaz. vol. 168; p. 696.
Winding-machine. J. Schärer-Nussbaumer. No. 1,000,695; Aug. 15; Sp. p. 3201; Gaz. vol. 169; p. 579.
Winding machine, Cross-. J. Schweiter. No. 1,003,301; Sept. 12; Sp. p. 2448; Gaz. vol. 170; p. 421.
Winding machine, Jack-. G. E. Wissmann. No. 999,616; Aug. 1; Sp. p. 823; Gaz. vol. 169; p. 144.
Winding-machine, Power. J. W. Milne. No. 988,585; Apr. 4; Sp. p. 644; Gaz. vol. 165; p. 103.
Winding machine, Tube-. C. F. Welsh. No. 1,002,888; Sept. 12; Sp. p. 1594; Gaz. vol. 170; p. 276.
Winding machine, Tube-. C. F. Welsh. No. 1,004,121; Sept. 26; Sp. p. 4297; Gaz. vol. 170; p. 764.
Winding mechanism. P. Butler. No. 998,231; July 18; Sp. p. 3546; Gaz. vol. 168; p. 636.
Winding or hauling plants, Safety device for reversible. W. Philip. No. 999,520; Aug. 1; Sp. p. 646; Gaz. vol. 169; p. 111.
Winding-reel. J. Payet. No. 1,006,784; Oct. 24; Sp. p. 4892; Gaz. vol. 171; p. 869.
Windlasses, Automatic trip and brake device for. C. Andrade, Jr. No. 988,428; Apr. 4; Sp. p. 293; Gaz. vol. 165; p. 48.
Window. W. O. Threlkel. No. 981,720; Jan. 17; Sp. p. 3447; Gaz. vol. 162; p. 584.
Window. C. Z. Hubbell. No. 981,858; Jan. 17; Sp. p. 3748; Gaz. vol. 162; p. 633.
Window. E. Gelbke. No. 984,271; Feb. 14; Sp. p. 2230; Gaz. vol. 163; p. 376.
Window. W. F. Hiatt. No. 988,778; Apr. 4; Sp. p. 1051; Gaz. vol. 165; p. 167.
Window. A. Krause. No. 989,160; Apr. 11; Sp. p. 1827; Gaz. vol. 165 p. 317.
Window. E. Potter. No. 991,237; May 2; Sp. p. 871; Gaz. vol. 166; p. 148.
Window. A. C. Badger. No. 991,471; May 9; Sp. p. 1377; Gaz. vol. 166; p. 260.
Window. P. W. Bowde. No. 993,951; May 30; Sp. p. 6682; Gaz. vol. 166; p. 1202.
Window. J. Raczka. No. 996,940; July 4; Sp. p. 712; Gaz. vol. 168; p. 116.
Window. F. Hahn. No. 998,613; July 25; Sp. p. 4379; Gaz. vol. 168; p. 802.
Window. J. Alsfasser. No. 999,357; Aug. 1; Sp. p. 329; Gaz. vol. 169; p. 58.
Window. G. B. Evans. No. 1,001,006; Aug. 22; Sp. p. 3917; Gaz. vol. 169; p. 721.
Window. A. W. Johnson. No. 1,007,208; Oct. 31; Sp. p. 5868; Gaz. vol. 171; p. 1071.
Window. G. Knappe. No. 1,009,978; Nov. 28; Sp. p. 5151; Gaz. vol. 172; p. 927.
Window adjuster, Casement-. I. D. Stine. No. 1,002,940; Sept. 12; Sp. p. 1709; Gaz. vol. 170; p. 295.
Window adjuster, Storm-. S. F. Wells. No. 994,224; June 6; Sp. p. 256; Gaz. vol. 167; p. 44.
Window and door fastener. F. C. Price. No. 1,006,788; Oct. 24; Sp. p. 4917; Gaz. vol. 171; p. 870
Window and roof jack. T. B. Fry. No. 980,240; Jan. 3; Sp. p. 118; Gaz. vol. 162; p. 23.
Window and screen attachment. R. Mohr. No. 1,001,294; Aug. 22; Sp. p. 4498; Gaz. vol. 169; p. 817.
Window attachment. S. Weinstein. No. 986,662; Mar. 14; Sp. p. 1932; Gaz. vol. 164; p. 340.
Window attachment. W. L. Schroeder. No. 993,887; May 30; Sp. p. 6558; Gaz. vol. 166; p. 1182.
Window attachment. F. Kotzki. No. 994,754; June 13; Sp. p. 1441; Gaz. vol. 167; p. 266.
Window attraction. F. M. Kennedy. No. 983,146; Jan. 31; Sp. p. 6498; Gaz. vol. 162; p. 1130.
Window-bead fastener. J. B. Dolan. No. 1,011,333; Dec. 12; Sp. p. 2124; Gaz. vol. 173; p. 362.
Window-came. W. Henderson. No. 991,847; May 9; Sp. p. 2181; Gaz. vol. 166; p. 389.
Window-casement. H. Dombrink. No. 1,009,488; Nov. 21; Sp. p. 4172; Gaz. vol. 172; p. 719.
Window-chair. S. Allinger. No. 992,841; May 23; Sp. p. 4306; Gaz. vol. 166; p. 793.
Window-cleaner. D. G. Davis and H. C. Meyerhoffer. No. 983,269; Feb. 7; Sp. p. 19; Gaz. vol. 163; p. 6.
Window-cleaner. R. H. Newman and W. N. Gartside. No. 989,398; Apr. 11; Sp. p. 2346; Gaz. vol. 165; p. 396.
Window-cleaner. J. W. Gibbons. No. 993,239; May 23; Sp. p. 5154; Gaz. vol. 166; p. 927.
Window-cleaner. J. W. Broderick. No. 1,011,022; Dec. 5; Sp. p. 1354; Gaz. vol. 173; p. 216.
Window-cleaning attachment. M. J. Davis. No. 991,140; May 2; Sp. p. 663; Gaz. vol. 166; p. 113.
Window-cleaning device. R. C. Ziringer. No. 1,005,918; Oct. 17; Sp. p. 2956; Gaz. vol. 171; p. 535.
Window-cleaning device. J. C. Carr. No. 1,007,641; Oct. 31; Sp. p. 6789; Gaz. vol. 171; p. 1221.
Window-cleaning machine. S. A. Mikool. No. 996,872; July 4; Sp. p. 565; Gaz. vol. 168; p. 93.
Window construction. W. Elmer, Jr. No. 982,580; Jan. 24; Sp. p. 5294; Gaz. vol. 162; p. 912.
Window construction. J. J. Smith. No. 984,611; Feb. 21; Sp. p. 2961; Gaz. vol. 163; p. 525.
Window construction. W. H. Worst and E. E. Kilmer. No. 984,990; Feb. 21; Sp. p. 3711; Gaz. vol. 163; p. 656.
Window construction. E. H. Lunken. No. 993,853; May 30; Sp. p. 6497; Gaz. vol. 166; p. 1170.
Window construction. A. Fromhold. No. 996,846; July 4; Sp. p. 507; Gaz. vol. 168; p. 83.
Window construction. F. T. Lippincott. No. 998,018; July 18; Sp. p. 3072; Gaz. vol. 168; p. 560.
Window construction. F. L. Molby. No. 1,004,672; Oct. 3; Sp. p. 257; Gaz. vol. 171; p. 45.
Window construction. T. H. Clark. No. 1,012,190; Dec. 19; Sp. p. 4038; Gaz. vol. 173; p. 695.
Window-decoration and similar purposes, Exhibiting-show for. H. Kempinski. No. 996,929; July 4; Sp. p. 683; Gaz. vol. 168; p. 112.
Window elevating pivot-fixture. C. D. Tabor. No. 1,001,322; Aug. 22; Sp. p. 4576; Gaz. vol. 169; p. 828.
Window-fastener. G. W. Stein. No. 998,420; July 18; Sp. p. 3977; Gaz. vol. 168; p. 704.
Window-fastener. C. A. Kind. No. 1,003,613; Sept. 19; Sp. p. 3116; Gaz. vol. 170; p. 561.
Window-fastener. C. W. Leinen and H. G. Ritter. No. 1,005,046; Oct. 3; Sp. p. 1039; Gaz. vol. 171; p. 174.
Window-fastener, Automatic. J. Brough. No. 1,012,803; Dec. 26; Sp. p. 5340; Gaz. vol. 173; p. 950.
Window-fixture. E. Bulin. No. 993,955; May 30; Sp. p. 6689; Gaz. vol. 166; p. 1203.
Window-frame. T. H. Kane. No. 1,001,147; Aug. 22; Sp. p. 4206; Gaz. vol. 169; p. 770.
Window frame and sash. T. Sondergard. No. 981,022; Jan. 10; Sp. p. 1950; Gaz. vol. 162; p. 322.
Window frame and sash. A. H. Newpher. No. 991,011; May 2; Sp. p. 386; Gaz. vol. 166; p. 66.
Window-frame, Metal. T. P. Shean. No. 996,946; July 4; Sp. p. 723; Gaz. vol. 168; p. 118.
Window-frame, Metal. W. D. Forsyth. No. 1,005,012; Oct. 3; Sp. p. 971; Gaz. vol. 171; p. 162.
Window-frame, Metal. J. T. Leonard. No. 1,008,042; Nov. 7; Sp. p. 852; Gaz. vol. 172; p. 136.
Window-frame, &c., Metallic. A. Fromhold. No. 996,845; July 4; Sp. p. 506; Gaz. vol. 168; p. 83.
Window-frame pockets, Machine for cutting. W. B. Harris. No. 997,059; July 4; Sp. p. 992; Gaz. vol. 168; p. 158.
Window-front construction. V. Ross and E. S. Rhoads. No. 1,006,408; Oct. 17; Sp. p. 4056; Gaz. vol. 171; p. 707.
Window-guard. M. Kleinegger. No. 980,535; Jan. 3; Sp. p. 784; Gaz. vol. 162; p. 125.
Window-guard. S. Rosenzweig. No. 988,510; Apr. 4; Sp. p. 462; Gaz. vol. 165; p. 75.
Window-guard. L. Conant. No. 993,654; May 30; Sp. p. 6081; Gaz. vol. 166; p. 1102.
Window-guard. F. Seifert. No. 1,006,297; Oct. 17; Sp. p. 3818; Gaz. vol. 171; p. 669.
Window-guard. W. S. Kinsley. No. 1,010,921; Dec. 5; Sp. p. 1165; Gaz. vol. 173; p. 182.
Window guard and screen, Combined. B. C. Suits. No. 999,682; Aug. 1; Sp. p. 955; Gaz. vol. 169; p. 167.
Window-lift lock and holder. C. D. Spates. No. 987,759; Mar. 28; Sp. p. 4221; Gaz. vol. 164; p. 771.
Window-lifting mechanism. H. H. Schroyer. No. 1,004,208; Sept. 26; Sp. p. 4485; Gaz. vol. 170; p. 794.
Window-lock. W. H. Hooper. No. 981,428; Jan. 10; Sp. p. 2881; Gaz. vol. 162; p. 465.
Window-lock. T. Jory. No. 988,786; Apr. 4; Sp. p. 1063; Gaz. vol. 165; p. 170.
Window-lock. H. B. Burdick. No. 1,009,131; Nov. 21; Sp. p. 3341; Gaz. vol. 172; p. 591.
Window-lock. E. D. Augur. No. 1,011,556; Dec. 12; Sp. p. 2606; Gaz. vol. 173; p. 441.
Window-lock. J. Bruno. No. 1,012,515; Dec. 19; Sp. p. 4687; Gaz. vol. 173; p. 805.
Window-lock, Safety. E. V. Amato. No. 994,556; June 6; Sp. p. 947; Gaz. vol. 167; p. 157.
Window-operating device. S. A. Lanning. No. 981,286; Jan. 10; Sp. p. 2548; Gaz. vol. 162; p. 415.
Window-operating mechanism. W. Kopp. No. 999,318; Aug. 1; Sp. p. 237; Gaz. vol. 169; p. 44.
Window or door adjusting device. J. F. Millspaugh. No. 984,101; Feb. 14; Sp. p. 1850; Gaz. vol. 163; p. 318.
Window or the like. A. H. McRonald. No. 993,861; May 30; Sp. p. 6512; Gaz. vol. 166; p. 1173.
Window-pane fastener. J. Graef. No. 981,411; Jan. 10; Sp. p. 2841; Gaz. vol. 162; p. 458.
Window-pane fastener. A. C. Stephenson. No. 983,321; Feb. 7; Sp. p. 138; Gaz. vol. 163; p. 25.
Window-pane fastener. W. Abraham. No. 1,005,404; Oct. 10; Sp. p. 1814; Gaz. vol. 171; p. 323.
Window-pane fastener. F. Vincent. No. 1,010,329; Nov. 28; Sp. p. 5874; Gaz. vol. 172; p. 1046.
Window-pane holder. H. Knoblauch. No. 987,076; Mar. 14; Sp. p. 2752; Gaz. vol. 164; p. 476.
Window-pane-securing strip. W. E. Ross. No. 1,001,169; Aug. 22; Sp. p. 4238; Gaz. vol. 169; p. 775.

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Window, Pivoted sliding. M. Häberle. No. 1,004,873; Oct. 3; Sp. p. 704; Gaz. vol. 171; p. 115.
Window-reacher. E. and F. Siegel. No. 986,771; Mar. 14; Sp. p. 2152; Gaz. vol. 164; p. 375.
Window, Reversible. A. C. Soule. No. 981,807; Jan. 17; Sp. p. 3632; Gaz. vol. 162; p. 615.
Window, Reversible. W. H. and J. L. Meixel. No. 987,903; Mar. 28; Sp. p. 4557; Gaz. vol. 164; p. 821.
Window, Reversible. W. H. and J. L. Meixel. No. 988,277; Mar. 28; Sp. p. 5345; Gaz. vol. 164; p. 946.
Window, Reversible. A. C. Soule. No. 1,005,344; Oct. 10; Sp. p. 1693; Gaz. vol. 171; p. 302.
Window, Reversible. A. C. Soule. No. 1,005,345; Oct. 10; Sp. p. 1695; Gaz. vol. 171; p. 302.
Window, Reversible. A. C. Soule. No. 1,005,346; Oct. 10; Sp. p. 1698; Gaz. vol. 171; p. 303.
Window, Reversible pivoted. C. B. Post. No. 1,012,705; Dec. 26; Sp. p. 5112; Gaz. vol. 173; p. 917.
Window-reversing appliance, Casement-. R. C. Spencer, Jr. No. 1,008,385; Nov. 14; Sp. p. 1676; Gaz. vol. 172; p. 298.
Window safety-lock. F. Meszaros. No. 986,737; Mar. 14; Sp. p. 2077; Gaz. vol. 164; p. 364.
Window, Sash-. C. Fischer. No. 983,434; Feb. 7; Sp. p. 372; Gaz. vol. 163; p. 62.
Window-screen. H. Harrild. No. 980,519; Jan. 3; Sp. p. 754; Gaz. vol. 162; p. 121
Window-screen. C. Morris. No. 980,819; Jan. 3; Sp. p. 1374; Gaz. vol. 162; p. 220.
Window-screen. W. A. Heaney and A. C. Beymer. No. 982,360; Jan. 24; Sp. p. 4832; Gaz. vol. 162; p. 837.
Window-screen. F. W. Tuerk and E. H. Goudle. No. 983,958; Feb. 14; Sp. p. 1531; Gaz. vol. 163; p. 269.
Window-screen. W. Thompson. No. 987,654; Mar. 21; Sp. p. 3971; Gaz. vol. 164; p. 708.
Window-screen. T. E. Barton. No. 988,540; Apr. 4; Sp. p. 534; Gaz. vol. 165; p. 85.
Window-screen. E. H. Lunken. No. 989,716; Apr. 18; Sp. p. 3049; Gaz. vol. 165; p. 537.
Window-screen. C. E. Stanton. No. 992,284; May 16; Sp. p. 3118; Gaz. vol. 166; p. 568.
Window-screen. C. F. Dudley. No. 992,760; May 23; Sp. p. 4129; Gaz. vol. 166; p. 764.
Window-screen. A. M. Smith. No. 994,279; June 6; Sp. p. 366; Gaz. vol. 167; p. 62.
Window-screen. E. A. Reitz. No. 996,941; July 4; Sp. p. 713; Gaz. vol. 168; p. 117.
Window-screen. A. D. Be Vier and J. Monteith. No. 997,951; July 18; Sp. p. 2922; Gaz. vol. 168; p. 536.
Window-screen. A. L. Ladwig and J. Butkus. No. 998,102; July 18; Sp. p. 3269; Gaz. vol. 168; p. 590.
Window-screen. J. E. H. Cannon. No. 998,464; July 18; Sp. p. 4052; Gaz. vol. 168; p. 718.
Window-screen. A. D. Walker. No. 1,000,352; Aug. 8; Sp. p. 2410; Gaz. vol. 169; p. 424.
Window-screen. R. B. Swart. No. 1,002,781; Sept. 5; Sp. p. 1330; Gaz. vol. 170; p. 201.
Window-screen. W. J. Baker. No. 1,004,721; Oct. 3; Sp. p. 381; Gaz. vol. 171; p. 63.
Window-screen. A. F. Hammerschmidt. No. 1,009,145; Nov. 21; Sp. p. 3365; Gaz. vol. 172; p. 595.
Window-screen. J. Hanna. No. 1,011,428; Dec. 12; Sp. p. 2303; Gaz. vol. 173; p. 393.
Window-screen and fly-trap, Combination. T. H. Nace. No. 1,006,778; Oct. 24; Sp. p. 4878; Gaz. vol. 171; p. 866.
Window-screen, Foldable. U. Sprinchorn. No. 1,007,499; Oct. 31; Sp. p. 6481; Gaz. vol. 171; p. 1172.
Window-screen, Locking. A. O. Lockwood. No. 995,408; June 13; Sp. p. 2851; Gaz. vol. 167; p. 484.
Window-screen, Roller. J. Blackburn. No. 1,002,962; Sept. 12; Sp. p. 1745; Gaz. vol. 170; p. 303.
Window-screen, Rolling. J. L. Cabral. No. 977,600; July 11; Sp. p. 2073; Gaz. vol. 168; p. 370.
Window, Sliding. M. Halász. No. 995,455; June 20; Sp. p. 2964; Gaz. vol. 167; p. 529.
Window, Sliding. C. Stürmann and A. Moll. No. 1,002,777; Sept. 5; Sp. p. 1325; Gaz. vol. 170; p. 200.
Window, Sliding and pivoting. U. Ribau. No. 1,002,757; Sept. 5; Sp. p. 1282; Gaz. vol. 170; p. 193.
Window stop-strip, Removable. L. Craig. No. 1,006,360; Oct. 17; Sp. p. 3965; Gaz. vol. 171; p. 690.
Window, Storm-. M. I. Hansen. No. 985,740; Feb. 28; Sp. p. 5410; Gaz. vol. 163; p. 948.
Window, Storm-. W. Johnston and W. Hirons. No. 1,013,090; Dec. 26; Sp. p. 5992; Gaz. vol. 173; p. 1048.
Window, Storm and screen. B. F. Aufderheide. No. 998,944; July 25; Sp. p. 5154; Gaz. vol. 168; p. 920.
Window structure. J. P. Murnane. No. 1,003,195; Sept. 12; Sp. p. 2224; Gaz. vol. 170; p. 382.
Window structure. D. J. Murnane. No. 1,008,667; Nov. 14; Sp. p. 2355; Gaz. vol. 172; p. 398.
Window-tent. O. G. Mull. No. 1,009,682; Nov. 21; Sp. p. 4535; Gaz. vol. 172; p. 781.
Window-ventilator. J. H. Franke. No. 983,989; Feb. 14; Sp. p. 1614; Gaz. vol. 163; p. 279.
Window-ventilator. W. A. Scott, Jr. No. 985,944; Mar. 7; Sp. p. 403; Gaz. vol. 164; p. 64.
Window-ventilator. B. A. Swasey. No. 988,745; Apr. 4; Sp. p. 980; Gaz. vol. 165; p. 155.
Window-ventilator. I. Pomerantz. No. 992,055; May 9; Sp. p. 2580; Gaz. vol. 166; p. 459.
Window-ventilator. J. Steinhelper. No. 994,961; June 13; Sp. p. 1912; Gaz. vol. 167; p. 336.
Window-ventilator. E. Esender. No. 995,237; June 13; Sp. p. 2466; Gaz. vol. 167; p. 427.
Window-ventilator. I. Pomerantz. No. 1,009,173; Nov. 21; Sp. p. 3419; Gaz. vol. 172; p. 605.
Window-ventilator and fly-escape. G. W. Stein. No. 998,421; July 18; Sp. p. 3978; Gaz. vol. 168; p. 705.
Window-ventilator, Sanitary. T. A. Stevens. No. 996,681; July 4; Sp. p. 168; Gaz. vol. 168; p. 30.
Window-washer. T. O'Brien. No. 987,010; Mar. 14; Sp. p. 2632; Gaz. vol. 164; p. 454.
Window-washing machine. R. B. Shryock. No. 988,215; Mar. 28; Sp. p. 5219; Gaz. vol. 164; p. 926.
Window-washing seat. M. Mishel. No. 1,005,057; Oct. 3; Sp. p. 1056; Gaz. vol. 171; p. 177.
Windows, Automatic locking device for sash-. C. A. Halbach. No. 987,675; Mar. 21; Sp. p. 4043; Gaz. vol. 164; p. 716.
Windows, Device to keep frost from. G. N. McMillan and M. L. Donaway. No. 1,009,849; Nov. 28; Sp. p. 4899; Gaz. vol. 172; p. 885.
Wine-cooler. U. Magni. No. 1,000,530; Aug. 15; Sp. p. 2810; Gaz. vol. 169; p. 518.
Wine-press. W. H. Crabtree. No. 1,011,921; Dec. 19; Sp. p. 3433; Gaz. vol. 173; p. 601.
Wing-carrier. T. L. Cummings. No. 984,353; Feb. 14; Sp. p. 2382; Gaz. vol. 163; p. 403.
Wiping and rubbing device. W. H. Clarke. No. 1,006,630; Oct. 24; Sp. p. 4581; Gaz. vol. 171; p. 817.
Wire, Automatic machine for stripping and re-covering. J. H. E. Branson. No. 999,694; Aug. 1; Sp. p. 976; Gaz. vol. 169; p. 171.
Wire-bending machine. C. H. Burbank. No. 1,002,218; Sept. 5; Sp. p. 53; Gaz. vol. 170; p. 6.
Wire-cable and the like covering machine. O. Vogel. No. 1,002,475; Sept. 5; Sp. p. 670; Gaz. vol. 170; p. 97.
Wire-clamp. W. L. Holladay and R. L. Stewart. No. 981,562; Jan. 10; Sp. p. 3121; Gaz. vol. 162; p. 509.
Wire-clamp. J. M. Kordzikowski. No. 984,484; Feb. 14; Sp. p. 2638; Gaz. vol. 163; p. 446.
Wire-clamp. O. Mabry. No. 1,010,063; Nov. 28; Sp. p. 5338; Gaz. vol. 172; p. 957.
Wire-clamping stretcher. R. G. Jaggers. No. 1,010,915; Dec. 5; Sp. p. 1154; Gaz. vol. 173; p. 181.
Wire clasp. A. A. Lind. No. 982,614; Jan. 24; Sp. p. 5360; Gaz. vol. 162; p. 924.
Wire-cloth, Electroplating. F. J. Root. No. 1,003,659; Sept. 19; Sp. p. 3209; Gaz. vol. 170; p. 578.
Wire clothes-line. C. M. Martin. No. 988,006; Mar. 28; Sp. p. 4811; Gaz. vol. 164; p. 857.
Wire-coating machine. G. Gustave. No. 1,004,251; Sept. 26; Sp. p. 4574; Gaz. vol. 170; p. 809.
Wire coil. W. Keller. No. 985,420; Feb. 28; Sp. p. 4690; Gaz. vol. 163; p. 836.
Wire connections, Machine for making steel and copper. A. Haines. No. 1,004,779; Oct. 3; Sp. p. 500; Gaz. vol. 171; p. 82.
Wire-connector. A. Freier. No. 980,770; Jan. 3; Sp. p. 1267; Gaz. vol. 162; p. 203.
Wire crimping and cutting machine, Stay-. C. A. Willmarth. No. 999,476; Aug. 1; Sp. p. 550; Gaz. vol. 169; p. 97.
Wire-cutting machine. M. W. Lewis. No. 988,197; Mar. 28; Sp. p. 5184; Gaz. vol. 164; p. 919.
Wire-drawing block. P. P. Monfils. No. 995,548; June 20; Sp. p. 3162; Gaz. vol. 167; p. 562.
Wire-drawing block. E. H. Carroll. No. 1,008,950; Nov. 14; Sp. p. 2950; Gaz. vol. 172; p. 492.
Wire-drawing dies or plates, Machine for forming. N. K. Turnbull. No. 1,008,442; Nov. 14; Sp. p. 1843; Gaz. vol. 172; p. 317.
Wire-drawing machine. L. C. Smith. No. 980,569; Jan. 3; Sp. p. 854; Gaz. vol. 162; p. 137.
Wire-drawing machine. E. H. Carroll. No. 1,000,492; Aug. 15; Sp. p. 2734; Gaz. vol. 169; p. 506.
Wire-drawing machine. E. Rolshoven. No. 1,009,344; Nov. 21; Sp. p. 3835; Gaz. vol. 172; p. 668.
Wire fabric. C. H. Gail. No. 996,919; July 4; Sp. p. 664; Gaz. vol. 168; p. 108.
Wire fabric. H. C. Powell. No. 998,036; July 18; Sp. p. 3114; Gaz. vol. 168; p. 567.
Wire fabric. J. W. Page. No. 999,249; Aug. 1; Sp. p. 115; Gaz. vol. 169; p. 21.
Wire-fabric-making machine. J. W. Dwiggins. No. 983,985; Feb. 14; Sp. p. 1595; Gaz. vol. 163; p. 278.
Wire fabric, Welded-. N. E. Clark. No. 980,602; Jan. 3; Sp. p. 920; Gaz. vol. 162; p. 149.
Wire fabric, Woven-. E. Hoffman. No. 986,569; Mar. 14; Sp. p. 1726; Gaz. vol. 164; p. 306.
Wire fastener, Ground-. M. H. Lawrence. No. 1,001,054; Aug. 22; Sp. p. 4015; Gaz. vol. 169; p. 739.
Wire-feeder. A. C. Mills. No. 986,020; Mar. 7; Sp. p. 571; Gaz. vol. 164; p. 91.
Wire frame. G. K. Rix. No. 990,166; Apr. 18; Sp. p. 3997; Gaz. vol. 165; p. 690.
Wire gate. D. P. Page. No. 982,295; Jan. 24; Sp. p. 4705; Gaz. vol. 162; p. 813.

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Wire gate. C. Robinson. No. 992,387; May 16; Sp. p. 3368; Gaz. vol. 166; p. 606.
Wire-goods-cleaning machine. G. Mafera. No. 1,012,385; Dec. 19; Sp. p. 4445; Gaz. vol. 173; p. 761.
Wire guide and cutter. C. A. Svensson. No. 996,896; July 4; Sp. p. 614; Gaz. vol. 168; p. 101.
Wire key, Order-. F. R. McBerty. No. 985,191; Feb. 28; Sp. p. 4179; Gaz. vol. 163; p. 761.
Wire, Making metallic. J. B. Clemens. No. 1,011,744; Dec. 12; Sp. p. 3029; Gaz. vol. 173; p. 505.
Wire mat, Flexible. J. F. Shelton. No. 1,010,192; Nov. 28; Sp. p. 5588; Gaz. vol. 172; p. 1001.
Wire nail. G. H. Camehl. No. 984,190; Feb. 14; Sp. p. 2016; Gaz. vol. 163; p. 346.
Wire nails and the like, Machine for the manufacture of. W. C. J. Schlie. No. 988,596; Apr. 4; Sp. p. 663; Gaz. vol. 165; p. 106.
Wire-netting machine. H. S. Combs. No. 983,539; Feb. 7; Sp. p. 599; Gaz. vol. 163; p. 96.
Wire-netting machine. F. N. Roehrich. No. 991,542; May 9; Sp. p. 1533; Gaz. vol. 166; p. 285.
Wire-netting machine, Flat-. O. Schmid. No. 1,005,480; Oct. 10; Sp. p. 1978; Gaz. vol. 171; p. 349.
Wire plug, Multiple-. H. Hertzberg and M. J. Wohl. No. 995,674; June 20; Sp. p. 3448; Gaz. vol. 167; p. 608.
Wire-puller. O. F. Dubruiel. No. 1,009,492; Nov. 21; Sp. p. 4183; Gaz. vol. 172; p. 720.
Wire rack. L. B. Williams. No. 1,004,949; Oct. 3; Sp. p. 864; Gaz. vol. 171; p. 141.
Wire rack, Screen-. G. H. Martin. No. 994,173; June 6; Sp. p. 146; Gaz. vol. 167; p. 25.
Wire-reel. S. A. McCullough. No. 1,007,039; Oct. 24; Sp. p. 5456; Gaz. vol. 171; p. 956.
Wire-retainer and insulator-guard. G. W. Crawford, Jr. No. 980,495; Jan. 3; Sp. p. 694; Gaz. vol. 162; p. 112.
Wire rods, Apparatus for treating. W. J. Powney. No. 1,013,056; Dec. 26; Sp. p. 5921; Gaz. vol. 173; p. 1036.
Wire rope. G. W. Westgarth. No. 1,011,687; Dec. 12; Sp. p. 2913; Gaz. vol. 173; p. 487.
Wire rope or cable. T. Gore. No. 986,817; Mar. 14; Sp. p. 2257; Gaz. vol. 164; p. 390.
Wire rope or cable. T. Gore. No. 1,003,597; Sept. 19; Sp. p. 3082; Gaz. vol. 170; p. 556.
Wire-splicer. S. A. D. Linn. No. 983,911; Feb. 14; Sp. p. 1435; Gaz. vol. 163; p. 254.
Wire-splicer. M. W. Fry. No. 985,023; Feb. 21; Sp. p. 3782; Gaz. vol. 163; p. 667.
Wire splicer and stretcher. N. N. Lybeck. No. 1,009,160; Nov. 21; Sp. p. 3395; Gaz. vol. 172; p. 600.
Wire splicer and tightener. S. H. Riley. No. 1,011,850; Dec. 12; Sp. p. 3264; Gaz. vol. 173; p. 542.
Wire-splicing machine. R. H. Austin. No. 1,008,234; Nov. 7; Sp. p. 1271; Gaz. vol. 172; p. 207.
Wire-splicing tool. E. Swenson. No. 1,004,309; Sept. 26; Sp. p. 4678; Gaz. vol. 170; p. 828.
Wire-stitching machine. H. H. Latham and W. Osterholm. No. 980,647; Jan. 3; Sp. p. 1004; Gaz. vol. 162; p. 164.
Wire-stitching-machine cutting mechanism. H. H. Latham and W. Osterholm. No. 980,874; Jan. 3; Sp. p. 1489; Gaz. vol. 162; p. 239.
Wire-straightener. W. T. Ashcroft. No. 1,012,964; Dec. 26; Sp. p. 5727; Gaz. vol. 173; p. 1005.
Wire straightening and cutting machine. C. Greiner. No. 998,087; July 18; Sp. p. 3230; Gaz. vol. 168; p. 584.
Wire-straightening machine. M. W. Lewis. No. 994,941; June 13; Sp. p. 1872; Gaz. vol. 167; p. 329.
Wire-stretcher. G. Scroggie. No. 981,126; Jan. 10; Sp. p. 2175; Gaz. vol. 162; p. 358.
Wire-stretcher. O. M. L. and E. K. Smith. No. 982,542; Jan. 24; Sp. p. 5220; Gaz. vol. 162; p. 900.
Wire-stretcher. J. A. Stewart. No. 983,782; Feb. 7; Sp. p. 1124; Gaz. vol. 163; p. 180.
Wire-stretcher. W. M. Lottridge. No. 985,816; Mar. 7; Sp. p. 96; Gaz. vol. 164; p. 20.
Wire-stretcher. J. V. Longan. No. 987,896; Mar. 28; Sp. p. 4543; Gaz. vol. 164; p. 819.
Wire-stretcher. A. J. Gibbens. No. 990,041; Apr. 18; Sp. p. 3752; Gaz. vol. 165; p. 648.
Wire-stretcher. J. A. Cowie. No. 990,845; May 2; Sp. p. 41; Gaz. vol. 166; p. 9.
Wire-stretcher. J. E. Wilson. No. 997,725; July 11; Sp. p. 2362; Gaz. vol. 168; p. 415.
Wire-stretcher. G. L. McMillen. No. 1,001,547; Aug. 22; Sp. p. 4998; Gaz. vol. 169; p. 902.
Wire-stretcher. J. S. Campbell. No. 1,003,333; Sept. 12; Sp. p. 2514; Gaz. vol. 170; p. 433.
Wire-stretcher. J. C. Barclay. No. 1,004,724; Oct. 3; Sp. p. 386; Gaz. vol. 171; p. 64.
Wire-stretcher. J. C. Barclay. No. 1,004,725; Oct. 3; Sp. p. 388; Gaz. vol. 171; p. 65.
Wire-stretcher. H. R. Booze. No. 1,005,802; Oct. 17; Sp. p. 2690; Gaz. vol. 171; p. 493.
Wire-stretcher. L. B. Kelley. No. 1,006,485; Oct. 24; Sp. p. 4252; Gaz. vol. 171; p. 763.
Wire-stretcher. C. Pucall. No. 1,009,175; Nov. 21; Sp. p. 3422; Gaz. vol. 172; p. 605.
Wire-stretcher. C. F. Hurd. No. 1,009,247; Nov. 21; Sp. p. 3623; Gaz. vol. 172; p. 632.
Wire-stretcher. W. H. Livingston. No. 1,009,844; Nov. 28; Sp. p. 4892; Gaz. vol. 172; p. 884.
Wire-stretcher. J. H. Matthews. No. 1,012,393; Dec. 19; Sp. p. 4459; Gaz. vol. 173; p. 764.
Wire-stretcher. C. Clark. No. 1,012,598; Dec. 26; Sp. p. 4874; Gaz. vol. 173; p. 878.
Wire stretcher and splicer. M. W. Cornett. No. 1,008,788; Nov. 14; Sp. p. 2625; Gaz. vol. 172; p. 440.
Wire stretching and holding device. O. P. M. Squires. No. 1,006,018; Oct. 17; Sp. p. 3173; Gaz. vol. 171; p. 570.
Wire, Tapering. J. A. Horton. No. 1,010,429; Dec. 5; Sp. p. 55; Gaz. vol. 173; p. 11.
Wire-tapering machine. J. A. Horton. No. 1,013,016; Dec. 26; Sp. p. 5844; Gaz. vol. 173; p. 1022.
Wire-tightener. J. Flint. No. 991,965; May 9; Sp. p. 2413; Gaz. vol. 166; p. 429.
Wire-tightening device. H. F. Heitmeyer. No. 986,058; Mar. 7; Sp. p. 644; Gaz. vol. 164; p. 104.
Wire-tool. C. T. Jordan. No. 1,011,806; Dec. 12; Sp. p. 3162; Gaz. vol. 173; p. 528.
Wire, Tool for. C. K. and O. K. Berg. No. 993,571; May 30; Sp. p. 5884; Gaz. vol. 166; p. 1072.
Wire-twisting apparatus. N. W. Young. No. 1,009,006; Nov. 14; Sp. p. 3077; Gaz. vol. 172; p. 511.
Wire-twisting device. D. W. Marshall. No. 981,444; Jan. 10; Sp. p. 2908; Gaz. vol. 162; p. 470.
Wire-twisting tool. D. A. Clawson. No. 997,754; July 11; Sp. p. 2447; Gaz. vol. 168; p. 427.
Wire-tying device. O. L. Bowers. No. 999,200; Aug. 1; Sp. p. 17; Gaz. vol. 169; p. 5.
Wire-winding machines, Notching means for. L. Fisk. No. 991,144; May 2; Sp. p. 671; Gaz. vol. 166; p. 114.
Wire-wiping machine. W. G. Miller. No. 1,008,180; Nov. 7; Sp. p. 1127; Gaz. vol. 172; p. 186.
Wire with yarn or its equivalent, Machine for covering or insulating. D. Noble. No. 1,000,109; Aug. 8; Sp. p. 1896; Gaz. vol. 169; p. 342.
Wire-working machine. E. J. McIlvried. No. 999,052; July 25; Sp. p. 5390; Gaz. vol. 168; p. 959.
Wires and cables, Elevating-jack for multiple. T. J. Cope. No. 1,002,647; Sept. 5; Sp. p. 1036; Gaz. vol. 170; p. 155.
Wires, Binding-block for terminal. C. D. Platt. No. 999,521; Aug. 1; Sp. p. 650; Gaz. vol. 169; p. 111.
Wires, Device for laying underground. J. M. Jones. No. 983,373; Feb. 7; Sp. p. 252; Gaz. vol. 163; p. 43.
Wires of refractory metals, Drawing fine. K. Farkas. No. 1,008,808; Nov. 14; Sp. p. 2660; Gaz. vol. 172; p. 446.
Wireless receiving electric system. C. Wirth. No. 1,012,496; Dec. 19; Sp. p. 4654; Gaz. vol. 173; p. 799.
Wood and making same, Preserved. J. A. De Cew. No. 1,010,122; Nov. 28; Sp. p. 5457; Gaz. vol. 172; p. 978.
Wood, Apparatus for extracting products from. F. Pope. No. 982,631; Jan. 24; Sp. p. 5387; Gaz. vol. 162; p. 929.
Wood, Coloring. K. K. Schmidt, H. Wislicenus, and M. Kleinstück. No. 1,012,283; Dec. 19; Sp. p. 4239; Gaz. vol. 173; p. 728.
Wood, &c., Composition for preserving. J. M. Long. No. 1,001,657; Aug. 29; Sp. p. 5235; Gaz. vol. 169; p. 970.
Wood-extracting device. J. W. Johnson. No. 997,557; July 11; Sp. p. 1985; Gaz. vol. 168; p. 355.
Wood, Finishing or ornamenting. W. Partridge and H. D. Gue. No. 1,009,436; Nov. 21; Sp. p. 4071; Gaz. vol. 172; p. 702.
Wood for bending, Apparatus for preparing and softening. W. E. Curry. No. 992,114; May 9; Sp. p. 2706; Gaz. vol. 166; p. 479.
Wood, Impregnating. C. S. Smith. No. 992,918; May 23; Sp. p. 4479; Gaz. vol. 166; p. 821.
Wood, &c., Impregnation of. M. Rüping. No. 1,008,864; Nov. 14; Sp. p. 2763; Gaz. vol. 172; p. 465.
Wood, Preserving. J. Dehnst. No. 991,200; May 2; Sp. p. 795; Gaz. vol. 166; p. 135.
Wood, Preserving. K. L. F. Friedemann. No. 1,006,076; Oct. 17; Sp. p. 3298; Gaz. vol. 171; p. 589.
Wood, Preserving. K. L. F. Friedemann. No. 1,006,077; Oct. 17; Sp. p. 3299; Gaz. vol. 171; p. 589.
Wood, Preserving. K. Koenman. No. 1,007,877; Nov. 7; Sp. p. 529; Gaz. vol. 172; p. 80.
Wood-preserving composition. C. Ellis. No. 991,434; May 2; Sp. p. 1293; Gaz. vol. 166; p. 216.
Wood, Preserving hard. A. F. Barry. No. 1,006,713; Oct. 24; Sp. p. 4733; Gaz. vol. 171; p. 843.
Wood-reducing apparatus. B. R. and M. J. Lyster. No. 995,796; June 20; Sp. p. 3732; Gaz. vol. 167; p. 650.
Wood, Seasoning. J. L. Fetterman. No. 990,246; Apr. 25; Sp. p. 4205; Gaz. vol. 165; p. 750.
Wood-skinning machine. C. H. Carter. No. 988,860; Apr. 4; Sp. p. 1202; Gaz. vol. 165; p. 192.
Wood-splint-cutting machine. F. Schafer. No. 987,174; Mar. 21; Sp. p. 2983; Gaz. vol. 164; p. 542.
Wood-splitting machine. M. J. Power. (Reissue.) No. 13,221; Mar. 21; Sp. p. 4064; Gaz. vol. 164; p. 720.
Wood, Treating. K. Koenman. No. 987,888; Mar. 28; Sp. p. 4519; Gaz. vol. 164; p. 816.
Wood-turner's tool-rest. H. C. Diederich. No. 988,630; Apr. 4; Sp. p. 737; Gaz. vol. 165; p. 117.
Wood-turning machine, Automatic. T. D. Smith. No. 1,001,561; Aug. 22; Sp. p. 5030; Gaz. vol. 169; p. 907.
Wood, Vulcanizing. C. Howard. No. 1,004,168; Sept. 26; Sp. p. 4413; Gaz. vol. 170; p. 780.

Alphabetical list of inventions—Continued.

Wood with metal, Machine for covering strips of. A. Beyrle. No. 990,470; Apr. 25; Sp. p. 4717; Gaz. vol. 165; p. 829.
Woods, Patching. W. C. Hobart. No. 1,005,546; Oct. 10; Sp. p. 2120; Gaz. vol. 171; p. 373.
Wooden article and producing same, Compressed. J. W. Hyatt. No. 987,368; Mar. 21; Sp. p. 3398; Gaz. vol. 164; p. 610.
Wooden blocks, Apparatus for treating. J. B. Card and F. McArdle. No. 985,392; Feb. 28; Sp. p. 4614; Gaz. vol. 163; p. 827.
Wooden bodies, Making composite. C. Tönjes. No. 1,010,706; Dec. 5; Sp. p. 672; Gaz. vol. 173; p. 108.
Woodwork and flooring, Machine for treating interior. C. H. Comstock. No. 981,383; Jan. 10; Sp. p. 2760; Gaz. vol. 162; p. 448.
Woodwork-polishing machine. A. Puggel. No. 995,179; June 13; Sp. p. 2358; Gaz. vol. 167; p. 408.
Woodworking apparatus, Portable. J. Miller. No. 1,012,688; Dec. 26; Sp. p. 5065; Gaz. vol. 173; p. 909.
Woodworking-machine. H. Rieck. No. 991,171; May 2; Sp. p. 733; Gaz. vol. 166; p. 124.
Woodworking-machine, Combination. L. F. Parks. No. 989,285; Apr. 11; Sp. p. 2105; Gaz. vol. 165; p. 359.
Woodworking-machine, Combination. G. Picher. No. 1,011,367; Dec. 12; Sp. p. 2189; Gaz. vol. 173; p. 373.
Woodworking machinery. L. F. Parks. No. 989,283; Apr. 11; Sp. p. 2095; Gaz. vol. 165; p. 358.
Woodworking machinery. L. F. Parks. No. 989,284; Apr. 11; Sp. p. 2100; Gaz. vol. 165; p. 358.
Woodworking-tool. J. Tucholski and A. E. Koziczenski. No. 992,392; May 16; Sp. p. 3377; Gaz. vol. 166; p. 608.
Wool-cleaning machine. J. R. Milson. No. 1,008,426; Nov. 14; Sp. p. 1796; Gaz. vol. 172; p. 312.
Wool-drying apparatus. J. M. Spencer. No. 983,577; Feb. 7; Sp. p. 702; Gaz. vol. 163; p. 109.
Wool fiber, Apparatus for supplying liquid to. W. J. Murray. No. 991,075; May 2; Sp. p. 512; Gaz. vol. 166; p. 88.
Wool, Scouring. P. Schmid. No. 981,008; Jan. 10; Sp. p. 1915; Gaz. vol. 162; p. 317.
Wool, Scouring or cleaning. W. J. Croston. No. 1,006,726; Oct. 24; Sp. p. 4756; Gaz. vol. 171; p. 847.
Wool, Treatment of. E. Elsässer. No. 1,008,249; Nov. 7; Sp. p. 1297; Gaz. vol. 172; p. 212.
Wool-washer. F. G. Sargent. No. 1,003,809; Sept. 19; Sp. p. 3526; Gaz. vol. 170; p. 627.
Wool-washing machine. F. G. Sargent. No. 981,123; Jan. 10; Sp. p. 2168; Gaz. vol. 162; p. 357.
Wool-washing machine. G. Malard. No. 989,622; Apr. 18; Sp. p. 2856; Gaz. vol. 165; p. 505.
Wool-washing machines, Parallel rake-motion for. F. G. Sargent. No. 982,094; Jan. 17; Sp. p. 4286; Gaz. vol. 162; p. 714.
Work-bench. A. W. Richards. No. 981,113; Jan. 10; Sp. p. 2144; Gaz. vol. 162; p. 353.
Work-bench stop. O. S. Gooch. No. 982,716; Jan. 24; Sp. p. 5562; Gaz. vol. 162; p. 957.
Work-centering device. M. J. Fogarty. No. 988,452; Apr. 4; Sp. p. 347; Gaz. vol. 165; p. 56.
Work-controlling mechanism. J. P. Weis. No. 990,411; Apr. 25; Sp. p. 4593; Gaz. vol. 165; p. 809.
Work-holder. J. A. De Bord. No. 980,924; Jan. 10; Sp. p. 1660; Gaz. vol. 162; p. 287.
Work-holder. G. Hahn. No. 982,668; Jan. 24; Sp. p. 5463; Gaz. vol. 162; p. 942.
Work-holder. A. J. Anderson and G. W. Goff. No. 995,759; June 20; Sp. p. 3649; Gaz. vol. 167; p. 637.
Work-holder, Adjustable. M. M. Kerr. No. 987,237; Mar. 21; Sp. p. 3123; Gaz. vol. 164; p. 565.
Work-holding dog. T. S. Barter. No. 1,012,967; Dec. 26; Sp. p. 5731; Gaz. vol. 173; p. 1006.
Work-support. W. C. Meyer. No. 984,772; Feb. 21; Sp. p. 3313; Gaz. vol. 163; p. 584.
Work-support. G. Goddu. No. 1,011,941; Dec. 19; Sp. p. 3472; Gaz. vol. 173; p. 608.
Work-support. J. J. Doidge. No. 1,012,998; Dec. 26; Sp. p. 5808; Gaz. vol. 173; p. 1016.
Work-support, Adjustable. A. W. Ankeny. No. 1,011,707; Dec. 12; Sp. p. 2948; Gaz. vol. 173; p. 493.
Work-support-controlling mechanism. G. A. Ambler. No. 1,005,921; Oct. 17; Sp. p. 2971; Gaz. vol. 171; p. 537.
Work-supports, Mechanism for controlling. G. A. Ambler. No. 996,043; June 27; Sp. p. 4239; Gaz. vol. 167; p. 771.
Work-supporting rack, Portable. J. F. Cavanagh. No. 982,477; Jan. 24; Sp. p. 5093; Gaz. vol. 162; p. 879.
Workman's supporting-block. S. E. Gregson. No. 994,459; June 6; Sp. p. 728; Gaz. vol. 167; p. 125.
Worm-drive and compensating gearing. D. E. Ross. No. 999,876; Aug. 8; Sp. p. 1354; Gaz. vol. 169; p. 261.
Worsted fabric. S. Belok. No. 998,454; July 18; Sp. p. 4027; Gaz. vol. 168; p. 715.
Woven fabric. J. E. Kerr. No. 1,000,016; Aug. 8; Sp. p. 1651; Gaz. vol. 169; p. 310.
Woven fabric. W. T. Smith. No. 1,008,930; Nov. 14; Sp. p. 2895; Gaz. vol. 172; p. 486.
Woven fabric. T. B. Dornan. No. 1,012,825; Dec. 26; Sp. p. 5398; Gaz. vol. 173; p. 958.
Wrapper or sheet feeding machine. H. Y. Armstrong. No. 998,737; July 25; Sp. p. 4677; Gaz. vol. 168; p. 847.
Wrappers from strips, Mechanism for cutting. H. Y. Armstrong. No. 998,736; July 25; Sp. p. 4672; Gaz. vol. 168; p. 846.
Wrapping-machine. E. C. Northrup. No. 980,329; Jan. 3; Sp. p. 291; Gaz. vol. 162; p. 53.
Wrapping-machine. N. J. Matthews, R. L. Johnstone, and A. W. Cash. No. 985,267; Feb. 28; Sp. p. 4351; Gaz. vol. 163; p. 786.
Wrapping-machine. N. J. Matthews. No. 985,268; Feb. 28; Sp. p. 4360; Gaz. vol. 163; p. 787.
Wrapping-machine. A. B. Cowles and O. A. Hanford. No. 986,548; Mar. 14; Sp. p. 1682; Gaz. vol. 164; p. 298.
Wrapping-machine. E. R. Knott. No. 993,255; May 23; Sp. p. 5186; Gaz. vol. 166; p. 932.
Wrapping-machine. H. S. Wilson. No. 996,187; June 27; Sp. p. 4594; Gaz. vol. 167; p. 820.
Wrapping-machine. J. J. Sullivan. No. 1,001,179; Aug. 22; Sp. p. 4256; Gaz. vol. 169; p. 779.
Wrapping-machine. W. P. Sargent. No. 1,006,009; Oct. 17; Sp. p. 3153; Gaz. vol. 171; p. 567.
Wrapping-machine. F. Giroud. No. 1,006,081; Oct. 17; Sp. p. 3304; Gaz. vol. 171; p. 590.
Wrapping-machine. O. Richter and L. Frederick. No. 1,008,197; Nov. 7; Sp. p. 1173; Gaz. vol. 172; p. 193.
Wrapping-machine. C. C. Page. No. 1,009,257; Nov. 21; Sp. p. 3644; Gaz. vol. 172; p. 636.
Wrapping-machine feeding mechanism. J. M. Patterson. No. 982,770; Jan. 24; Sp. p. 5686; Gaz. vol. 162; p. 975.
Wrapping machine, Package-. R. B. Cochrane. No. 996,213; June 27; Sp. p. 4642; Gaz. vol. 167; p. 828.
Wrapping machine, Parcel-. L. Ljunglof. No. 989,020; Apr. 11; Sp. p. 1528; Gaz. vol. 165; p. 268.
Wrapping or packaging machine. G. F. Hall. No. 999,556; Aug. 1; Sp. p. 724; Gaz. vol. 169; p. 124.
Wrapping sweetmeats or other articles, Machine for. F. Grover. No. 997,667; July 11; Sp. p. 2229; Gaz. vol. 168; p. 394.
Wrecking apparatus. F. Oliver. No. 984,152; Feb. 14; Sp. p. 1946; Gaz. vol. 163; p. 333.
Wrecking apparatus. J. J. Cousins. No. 988,977; Apr. 11; Sp. p. 1434; Gaz. vol. 165; p. 253.
Wrench: *See* Alligator-wrench; Basin-wrench; Buggy-wrench; Carriage-wrench; Chain wrench; Combination-wrench; Gang-wrench; Hand-wrench; Hose-tie wrench; Jar-wrench; Monkey-wrench; Multiple wrench; Nut-wrench; Pipe-wrench; Pipe-flange wrench; Quick-acting wrench; Ratchet-wrench; Screw-cutting wrench; Self-adjusting wrench; Socket-wrench; Spanner-wrench; Spigot-wrench; Tap-wrench; Tapping-wrench; Tire-bolt wrench; Vehicle-wrench.
Wrench. C. A. Hartvigsen. No. 980,632; Jan. 3; Sp. p. 971; Gaz. vol. 162; p. 158.
Wrench. J. T. Humphries. No. 980,786; Jan. 3; Sp. p. 1303; Gaz. vol. 162; p. 209.
Wrench. J. F. Wright. No. 981,234; Jan. 10; Sp. p. 2448; Gaz. vol. 162; p. 397.
Wrench. R. J. Bomblatus and F. Caviola. No. 981,523; Jan. 10; Sp. p. 3047; Gaz. vol. 162; p. 497.
Wrench. H. Horsman. No. 982,064; Jan. 17; Sp. p. 4227; Gaz. vol. 162; p. 704.
Wrench. J. M. Gilman. No. 982,589; Jan. 24; Sp. p. 5312; Gaz. vol. 162; p. 915.
Wrench. C. L. Mansfield and R. E. Matthews. No. 982,617; Jan. 24; Sp. p. 5363; Gaz. vol. 162; p. 925.
Wrench. F. H. Servatius. No. 982,886; Jan. 31; Sp. p. 5955; Gaz. vol. 162; p. 1044.
Wrench. G. W. Gruver. No. 982,951; Jan. 31; Sp. p. 6101; Gaz. vol. 162; p. 1065.
Wrench. F. Hachmann and D. C. McFee. No. 982,956; Jan. 31; Sp. p. 6105; Gaz. vol. 162; p. 1066.
Wrench. W. N. Jay. No. 983,447; Feb. 7; Sp. p. 410; Gaz. vol. 163; p. 66.
Wrench. A. J. Curtis. No. 983,483; Feb. 7; Sp. p. 489; Gaz. vol. 163; p. 78.
Wrench. R. D. Lindsay. No. 983,628; Feb. 7; Sp. p. 798; Gaz. vol. 163; p. 127.
Wrench. E. Kukuruda. No. 983,728; Feb. 7; Sp. p. 1008; Gaz. vol. 163; p. 160.
Wrench. E. Allen. No. 983,796; Feb. 7; Sp. p. 1152; Gaz. vol. 163; p. 184.
Wrench. F. Lukas. No. 984,280; Feb. 14; Sp. p. 2249; Gaz. vol. 163; p. 380.
Wrench. H. Mendenhall and B. R. Wonsmos. No. 984,691; Feb. 21; Sp. p. 3129; Gaz. vol. 163; p. 554.
Wrench. E. Green. No. 985,028; Feb. 21; Sp. p. 3791; Gaz. vol. 163; p. 669.
Wrench. L. Bekker. No. 985,129; Feb. 28; Sp. p. 4005; Gaz. vol. 163; p. 738.
Wrench. N. Nielsen. No. 985,277; Feb. 28; Sp. p. 4383; Gaz. vol. 163; p. 790.
Wrench. R. S. Clark. No. 985,396; Feb. 28; Sp. p. 4622; Gaz. vol. 163; p. 829.
Wrench. J. C. McLean. No. 986,192; Mar. 7; Sp. p. 908; Gaz. vol. 164; p. 147.
Wrench. P. Roisum. No. 986,593; Mar. 14; Sp. p. 1779; Gaz. vol. 164; p. 315.
Wrench. E. C. Doolittle. No. 987,444; Mar. 21; Sp. p. 3561; Gaz. vol. 164; p. 635.
Wrench. C. W. Horstman. No. 987,880; Mar. 28; Sp. p. 4504; Gaz. vol. 164; p. 813.

Wrench. C. N. Pollock. No. 988,142; Mar. 28; Sp. p. 5083; Gaz. vol. 164; p. 902.
Wrench. R. Geoffroy. No. 988,565; Apr. 4; Sp. p. 585; Gaz. vol. 165; p. 94.
Wrench. G. Brodhagen. No. 988,691; Apr. 4; Sp. p. 852; Gaz. vol. 165; p. 138.
Wrench. L. E. Boatwright. No. 988,967; Apr. 11; Sp. p. 1412; Gaz. vol. 165; p. 250.
Wrench. C. Parsons. No. 989,404; Apr. 11; Sp. p. 2358; Gaz. vol. 165; p. 398.
Wrench. W. J. Stolz. No. 990,078; Apr. 18; Sp. p. 3811; Gaz. vol. 165; p. 660.
Wrench. A. Fager. No. 990,718; Apr. 25; Sp. p. 5296; Gaz. vol. 165; p. 913.
Wrench. S. E. Fess. No. 991,288; May 2; Sp. p. 990; Gaz. vol. 166; p. 167.
Wrench. O. A. Nordlund. No. 991,529; May 9; Sp. p. 1498; Gaz. vol. 166; p. 280.
Wrench. F. C. Bradley. No. 991,602; May 9; Sp. p. 1674; Gaz. vol. 166; p. 307.
Wrench. W. A. Wright. No. 991,925; May 9; Sp. p. 2339; Gaz. vol. 166; p. 416.
Wrench. W. F. Hughes. No. 991,994; May 9; Sp. p. 2472; Gaz. vol. 166; p. 439.
Wrench. F. Hachmann. No. 992,126; May 9; Sp. p. 2724; Gaz. vol. 166; p. 482.
Wrench. F. Hachmann. No. 992,127; May 9; Sp. p. 2725; Gaz. vol. 166; p. 483.
Wrench. W. Benson. No. 992,150; May 16; Sp. p. 2805; Gaz. vol. 166; p. 522.
Wrench. H. W. Longfellow. No. 992,511; May 16; Sp. p. 3612; Gaz. vol. 166; p. 649.
Wrench. C. W. Rose. No. 992,597; May 16; Sp. p. 3820; Gaz. vol. 166; p. 680.
Wrench. W. A. Seils. No. 992,913; May 23; Sp. p. 4471; Gaz. vol. 166; p. 820.
Wrench. J. W. Giffen. No. 993,052; May 23; Sp. p. 4774; Gaz. vol. 166; p. 868.
Wrench. C. O. Carlyle. No. 993,223; May 23; Sp. p. 5121; Gaz. vol. 166; p. 923.
Wrench. A. S. E. Metcalf. No. 993,268; May 23; Sp. p. 5219; Gaz. vol. 166; p. 936.
Wrench. J. A. Carlson. No. 993,504; May 30; Sp. p. 5742; Gaz. vol. 166; p. 1049.
Wrench. C. Kerr. No. 993,837; May 30; Sp. p. 6472; Gaz. vol. 166; p. 1165.
Wrench. G. R. Bair. No. 994,364; June 6; Sp. p. 548; Gaz. vol. 167; p. 94.
Wrench. J. M. Hodgson. No. 994,682; June 6; Sp. p. 1231; Gaz. vol. 167; p. 201.
Wrench. J. A. Darby. No. 994,699; June 6; Sp. p. 1270; Gaz. vol. 167; p. 207.
Wrench. W. J. Miller and T. N. Cass. No. 994,945; June 13; Sp. p. 1881; Gaz. vol. 167; p. 331.
Wrench. J. B. Allen. No. 995,211; June 13; Sp. p. 2408; Gaz. vol. 167; p. 417.
Wrench. M. Courtney. No. 995,223; June 13; Sp. p. 2437; Gaz. vol. 167; p. 422.
Wrench. E. Furrh. No. 995,668; June 20; Sp. p. 3437; Gaz. vol. 167; p. 605.
Wrench. C. Kane. No. 995,876; June 20; Sp. p. 3903; Gaz. vol. 167; p. 678.
Wrench. J. A. Borland. No. 995,947; June 20; Sp. p. 4040; Gaz. vol. 167; p. 703.
Wrench. D. N. Curtis. No. 996,462; June 27; Sp. p. 5214; Gaz. vol. 167; p. 914.
Wrench. W. Thomas. No. 996,683; July 4; Sp. p. 170; Gaz. vol. 168; p. 30.
Wrench. J. J. Dixon. No. 996,841; July 4; Sp. p. 489; Gaz. vol. 168; p. 81.
Wrench. S. M. Barabe. No. 998,271; July 18; Sp. p. 3641; Gaz. vol. 168; p. 650.
Wrench. D. P. Kahle. No. 999,034; July 25; Sp. p. 5354; Gaz. vol. 168; p. 952.
Wrench. A. G. Hunter. No. 999,167; July 25; Sp. p. 5591; Gaz. vol. 168; p. 994.
Wrench. W. A. Burger. No. 999,361; Aug. 1; Sp. p. 337; Gaz. vol. 169; p. 59.
Wrench. C. E. and A. W. Lindgren. No. 999,377; Aug. 1; Sp. p. 370; Gaz. vol. 169; p. 65.
Wrench. W. F. Probst, C. E. and J. L. Elsass. No. 999,868; Aug. 8; Sp. p. 1339; Gaz. vol. 169; p. 259.
Wrench. C. H. Kenney. No. 1,000,015; Aug. 8; Sp. p. 1650; Gaz. vol. 169; p. 310.
Wrench. J. Sherbine. No. 1,000,558; Aug. 15; Sp. p. 2883; Gaz. vol. 169; p. 529.
Wrench. M. Istvan. No. 1,000,811; Aug. 15; Sp. p. 3443; Gaz. vol. 169; p. 619.
Wrench. F. R. Allen. No. 1,000,878; Aug. 15; Sp. p. 3579; Gaz. vol. 169; p. 643.
Wrench. C. E. Stone. No. 1,001,178; Aug. 22; Sp. p. 4255; Gaz. vol. 169; p. 778.
Wrench. J. J. Noon. No. 1,001,596; Aug. 22; Sp. p. 5111; Gaz. vol. 169; p. 918.
Wrench. P. T. Barker. No. 1,001,605; Aug. 29; Sp. p. 5133; Gaz. vol. 169; p. 952.
Wrench. T. J. Kennel. No. 1,002,157; Aug. 29; Sp. p. 6284; Gaz. vol. 169; p. 1136.
Wrench. R. Y. Bovee. No. 1,002,215; Sept. 5; Sp. p. 40; Gaz. vol. 170; p. 4.
Wrench. G. B. Weatherly. No. 1,002,615; Sept. 5; Sp. p. 978; Gaz. vol. 170; p. 145.
Wrench. J. L. Oliver. No. 1,003,060; Sept. 12; Sp. p. 1930; Gaz. vol. 170; p. 334.
Wrench. F. W. Fritchey. No. 1,003,247; Sept. 12; Sp. p. 2342; Gaz. vol. 170; p. 402.
Wrench. W. Bostick. No. 1,003,426; Sept. 19; Sp. p. 2699; Gaz. vol. 170; p. 496.
Wrench. W. E. Washington. No. 1,003,556; Sept. 19; Sp. p. 2969; Gaz. vol. 170; p. 542.
Wrench. A. and W. Bender. No. 1,003,975; Sept. 26; Sp. p. 3924; Gaz. vol. 170; p. 712.
Wrench. A. Dudly, Sr. No. 1,003,997; Sept. 26; Sp. p. 3979; Gaz. vol. 170; p. 720.
Wrench. J. Egan. No. 1,003,999; Sept. 26; Sp. p. 3984; Gaz. vol. 170; p. 721.
Wrench. S. R. Archer. No. 1,004,522; Sept. 26; Sp. p. 5113; Gaz. vol. 170; p. 900.
Wrench. W. H. J. Fitzgerald. No. 1,004,562; Oct. 3; Sp. p. 31; Gaz. vol. 171; p. 7.
Wrench. F. B. Rebagliati. No. 1,004,903; Oct. 3; Sp. p. 782; Gaz. vol. 171; p. 125.
Wrench. W. B. Millner and J. M. Cobb. No. 1,005,056; Oct. 3; Sp. p. 1055; Gaz. vol. 171; p. 177.
Wrench. E. Molencki. No. 1,005,058; Oct. 3; Sp. p. 1057; Gaz. vol. 171; p. 177.
Wrench. E. L. Marshall and G. P. Pavlik. No. 1,005,724; Oct. 10; Sp. p. 2530; Gaz. vol. 171; p. 434.
Wrench. A. Peterson and R. J. O'Neill. No. 1,005,747; Oct. 10; Sp. p. 2573; Gaz. vol. 171; p. 442.
Wrench. C. P. Brown. No. 1,006,057; Oct. 17; Sp. p. 3255; Gaz. vol. 171; p. 583.
Wrench. A. Beran. No. 1,006,348; Oct. 17; Sp. p. 3926; Gaz. vol. 171; p. 686.
Wrench. L. Rice. No. 1,006,679; Oct. 24; Sp. p. 4679; Gaz. vol. 171; p. 833.
Wrench. R. M. Harris and W. L. Bottoms. No. 1,007,101; Oct. 31; Sp. p. 5612; Gaz. vol. 171; p. 1032.
Wrench. F. C. Botwright. No. 1,007,179; Oct. 31; Sp. p. 5801; Gaz. vol. 171; p. 1060.
Wrench. J. R. Long. No. 1,007,298; Oct. 31; Sp. p. 6045; Gaz. vol. 171; p. 1103.
Wrench. R. V. McMullen. No. 1,007,302; Oct. 31; Sp. p. 6050; Gaz. vol. 171; p. 1104.
Wrench. R. F. Taylor. No. 1,007,819; Nov. 7; Sp. p. 386; Gaz. vol. 172; p. 60.
Wrench. H. G. Godley. No. 1,007,938; Nov. 7; Sp. p. 657; Gaz. vol. 172; p. 102.
Wrench. C. G. and C. F. Youngquist. No. 1,008,403; Nov. 14; Sp. p. 1735; Gaz. vol. 172; p. 305.
Wrench. C. H. Parker. No. 1,009,090; Nov. 21; Sp. p. 3261; Gaz. vol. 172; p. 577.
Wrench. A. L. Moore. No. 1,009,168; Nov. 21; Sp. p. 3412; Gaz. vol. 172; p. 603.
Wrench. J. Mackey. No. 1,009,429; Nov. 21; Sp. p. 4056; Gaz. vol. 172; p. 699.
Wrench. H. W. Scott. No. 1,010,188; Nov. 28; Sp. p. 5582; Gaz. vol. 172; p. 999.
Wrench. J. Chipchase and A. E. Metcalfe. No. 1,010,232; Nov. 28; Sp. p. 5670; Gaz. vol. 172; p. 1014.
Wrench. J. F. Wright. (Reissue.) No. 13,328; Nov. 28; Sp. p. 6056; Gaz. vol. 172; p. 1074.
Wrench. J. S. Collison and W. A. Wright. No. 1,010,479; Dec. 5; Sp. p. 180; Gaz. vol. 173; p. 29.
Wrench. W. S. Leighton. No. 1,011,974; Dec. 19; Sp. p. 3551; Gaz. vol. 173; p. 620.
Wrench. J. H. Vinton. No. 1,012,036; Dec. 19; Sp. p. 3693; Gaz. vol. 173; p. 643.
Wrench. J. H. Vinton. No. 1,012,037; Dec. 19; Sp. p. 3695; Gaz. vol. 173; p. 643.
Wrench. W. W. White. No. 1,012,491; Dec. 19; Sp. p. 4644; Gaz. vol. 173; p. 797.
Wrench. P. J. Johnson. No. 1,012,646; Dec. 26; Sp. p. 4987; Gaz. vol. 173; p. 896.
Wrench. J. Marsh. No. 1,012,881; Dec. 26; Sp. p. 5537; Gaz. vol. 173; p. 977.
Wrench and pliers, Combined. J. H. Brooks. No. 1,003,978; Sept. 26; Sp. p. 3929; Gaz. vol. 170; p. 713.
Wrenches, Wire-holding means for. J. H. Sullivan. No. 986,954; Mar. 14; Sp. p. 2532; Gaz. vol. 164; p. 438.
Wringer: *See* Clothes-wringer; Mop-wringer.
Wringer. S. C. Lawlor. No. 984,819; Feb. 21; Sp. p. 3402; Gaz. vol. 163; p. 600.
Wringer and washing-machine attachment. W. E. Flood. No. 987,353; Mar. 21; Sp. p. 3369; Gaz. vol. 164; p. 605.
Wringer-gearing. N. Hardin. No. 994,314; June 6; Sp. p. 432; Gaz. vol. 167; p. 75.
Wringer-support. G. H. Huenergardt. No. 993,778; May 30; Sp. p. 6350; Gaz. vol. 166; p. 1145.
Wringers, Means for operating washing-machine. W. H. Voss. No. 1,004,607; Oct. 3; Sp. p. 132; Gaz. vol. 171; p. 23.
Wringers, Safety appliance for centrifugal. F. L. Baxter. No. 981,833; Jan. 17; Sp. p. 3698; Gaz. vol. 162; p. 625.
Wrist-pad. W. R. Ballou. No. 986,620; Mar. 14; Sp. p. 1829; Gaz. vol. 164; p. 324.
Wrist-pins, Means for lubrication of. J. K. Campbell. No. 980,597; Jan. 3; Sp. p. 908; Gaz. vol. 162; p. 147.

Alphabetical list of inventions—Continued.

Writing a plurality of signatures or inscriptions, Machine for simultaneously. W. R. Woodward and F. E. Crompton. No. 1,008,099; Nov. 7; Sp. p. 970; Gaz. vol. 172; p. 156.
Writing apparatus, Electrical. D. P. F. Ghadiali. No. 983,703; Feb. 7; Sp. p. 964; Gaz. vol. 163; p. 153.
Writing by the blind, Device to facilitate. O. C. Frost. No. 980,623; Jan. 3; Sp. p. 955; Gaz. vol. 162; p. 155.
Writing exercises, Device for securing copy-books in the correct position for. J. Speckel. No. 1,012,739; Dec. 26; Sp. p. 5185; Gaz. vol. 173; p. 929.
Writing-machine. E. B. Hess. No. 1,004,425; Sept. 26; Sp. p. 4922; Gaz. vol. 170; p. 866.
Writing-machine. E. B. Hess. No. 1,004,569; Oct. 3; Sp. p. 48; Gaz. vol. 171; p. 9.
Writing-machine. E. B. Hess. No. 1,009,415; Nov. 21; Sp. p. 4021; Gaz. vol. 172; p. 694.
Writing machine, Syllable-. C. Winterling. No. 988,160; Mar. 28; Sp. p. 5118; Gaz. vol. 164; p. 908.
Writing machine, Syllable-. P. D. Du Pont. No. 1,006,061; Oct. 17; Sp. p. 3264; Gaz. vol. 171; p. 584.
Writing material. M. F. C. Stockmann. No. 987,926; Mar. 28; Sp. p. 4607; Gaz. vol. 164; p. 829.
Writing-pad holder. R. E. Wiggins. No. 1,006,329; Oct. 17; Sp. p. 3888; Gaz. vol. 171; p. 679.
Writing position and motion training card. J. L. Montgomery. No. 1,006,393; Oct. 17; Sp. p. 4025; Gaz. vol. 171; p. 702.
X-ray apparatus. W. S. Fullerton. No. 981,256; Jan. 10; Sp. p. 2492; Gaz. vol. 162; p. 405.
X-ray frame. A. Granger. No. 983,360; Feb. 7; Sp. p. 226; Gaz. vol. 163; p. 38.
X-ray system. E. Blum. No. 1,003,325; Sept. 12; Sp. p. 2497; Gaz. vol. 170; p. 430.
X-ray tube. H. F. Waite. No. 982,552; Jan. 24; Sp. p. 5244; Gaz. vol. 162; p. 904.
X-ray tube and vacuum control therefor. H. C. Snook and G. H. White. No. 1,010,197: Nov. 28; Sp. p. 5597; Gaz. vol. 172; p. 1002.
Yardstick, Calculating-. H. J. Weierhauser. No. 986,661; Mar. 14; Sp. p. 1927; Gaz. vol. 164; p. 340.
Yarn and fabric, Metallic. W. H. Underwood. No. 1,012,031; Dec. 19; Sp. p. 3685; Gaz. vol. 173; p. 641.
Yarn and thread, Device for removing snarls, kinks, slacks, &c., from. J. F. Lodge. No. 988,362; Apr. 4; Sp. p. 150; Gaz. vol. 165; p. 26.
Yarn, Apparatus for examining. W. Erben. No. 998,484; July 18; Sp. p. 4094; Gaz. vol. 168; p. 726.
Yarn carrier, Tuft-. E. H. Ryon. No. 989,060; Apr. 11; Sp. p. 1622; Gaz. vol. 165; p. 283.
Yarn-chain-unwrapping mechanism. J. W. Connelly. No. 1,005,162; Oct. 10; Sp. p. 1259; Gaz. vol. 171; p. 234.
Yarn-cleaner. J. P. Garey and J. S. Lowman. No. 983,040; Jan. 31; Sp. p. 6303; Gaz. vol. 162; p. 1096.
Yarn-cleaner for spoolers, spinning, and similar machines. J. R. and W. B. MacColl. No. 1,000,029; Aug. 8; Sp. p. 1678; Gaz. vol. 169; p. 315.
Yarn-cleansing apparatus. R. G. Jennings. No. 991,510; May 9; Sp. p. 1454; Gaz. vol. 166; p. 273.
Yarn, Elongating or drafting machine for production of recondensed. W. H. Hoyle and T. Barker. No. 984,922; Feb. 21; Sp. p. 3591; Gaz. vol. 163; p. 634.
Yarn in hanks with liquid, Apparatus for treating. A. Clavel. No. 990,802; Apr. 25; Sp. p. 5470; Gaz. vol. 165; p. 942.
Yarn-mercerizing machine. P. Hahn. No. 998,288; July 18; Sp. p. 3689; Gaz. vol. 168; p. 658.
Yarn or thread, Apparatus for gassing. J. B. Bolton. No. 1,000,770; Aug. 15; Sp. p. 3360; Gaz. vol. 169; p. 605.
Yarn-package. S. W. Wardwell. No. 998,057; July 18; Sp. p. 3156; Gaz. vol. 168; p. 574.
Yarn, Slug or bunch catcher for. T. J. Sands. No. 1,012,449; Dec. 19; Sp. p. 4564; Gaz. vol. 173; p. 781.
Yarn-testing machine. J. R. G. Briercliffe. No. 1,008,308; Nov. 14; Sp. p. 1480; Gaz. vol. 172; p. 271.
Yeast into food, Converting. P. Nolf. No. 1,012,147; Dec. 19; Sp. p. 3944; Gaz. vol. 173; p. 681.
Yeast, Manufacturing dry diastatic. P. A. Brangier. No. 986,898; Mar. 14; Sp. p. 2431; Gaz. vol. 164; p. 420.
Yieldable wheel. J. Klatt. No. 1,006,759; Oct. 24; Sp. p. 4835; Gaz. vol. 171; p. 860.
Yohimbin preparations and manufacturing same. F. Müller. No. 996,274; June 27; Sp. p. 4782; Gaz. vol. 167; p. 848.
Yoke, Animal-. A. H. Thieme. No. 987,025; Mar. 14; Sp. p. 2656; Gaz. vol. 164; p. 459.
Yoke attachment, Neck-. C. White. No. 982,556; Jan. 24; Sp. p. 5250; Gaz. vol. 162; p. 905.
Yoke, Body-. F. H. Bogart. No. 990,627; Apr. 25; Sp. p. 5066; Gaz. vol. 165; p. 882.
Yoke center, Neck-. M. Marks. No. 992,020; May 9; Sp. p. 2513; Gaz. vol. 166; p. 447.
Yoke center, Neck-. A. Nelson. No. 1,001,067; Aug. 22; Sp. p. 4043; Gaz. vol. 169; p. 743.
Yoke center, Neck-. J. Ziegler. No. 1,009,878; Nov. 28; Sp. p. 4957; Gaz. vol. 172; p. 895.
Yoke coupling, Neck-. W. A. Buchanan. No. 1,001,614; Aug. 29; Sp. p. 5156; Gaz. vol. 169; p. 955.
Yoke, Cow-. R. L. Parker. No. 989,402; Apr. 11; Sp. p. 2355; Gaz. vol. 165; p. 398.
Yoke, Neck-. P. O. Mellum. No. 1,005,995; Oct. 17; Sp. p. 3129; Gaz. vol. 171; p. 562.
Yoke, Neck-. C. P. Young. No. 1,006,617; Oct. 24; Sp. p. 4559; Gaz. vol. 171; p. 813.
Zeroizing mechanism. R. B. A. Lemaignen. No. 997,068; July 4; Sp. p. 1006; Gaz. vol. 168; p. 161.
Zinc and/or copper from complex ores or the like, Obtaining. J. R. Williams, H. W. and B. Bradley. No. 1,006,330; Oct. 17; Sp. p. 3889; Gaz. vol. 171; p. 680.
Zinc-bearing lead sulfids with or without small admixtures of other metals, Metallurgy of. E. A. Ashcroft. No. 1,011,898; Dec. 19; Sp. p. 3378; Gaz. vol. 173; p. 592.
Zinc, Electrolytic refining of. K. Namekawa, J. Miyazawa, K. Miyabara, and S. Emura. No. 998,379; July 18; Sp. p. 3894; Gaz. vol. 168; p. 691.
Zinc-extracting furnace. O. Schneemilch. No. 1,009,863; Nov. 28; Sp. p. 4927; Gaz. vol. 172; p. 890.
Zinc for smelting, Manufacture of oxid of. R. W. E. MacIvor and W. Hommel. No. 1,007,124; Oct. 31; Sp. p. 5666; Gaz. vol. 171; p. 1040.
Zinc-lead ores, Treatment of refractory. P. C. C. Isherwood. No. 1,011,962; Dec. 19; Sp. p. 3516; Gaz. vol. 173; p. 615.
Zinc, Metallurgy of. F. L. Clerc. No. 1,002,037; Aug. 29; Sp. p. 6078; Gaz. vol. 169; p. 1099.
Zinc, Metallurgy of. A. L. J. Queneau. No. 1,006,877; Oct. 24; Sp. p. 5125; Gaz. vol. 171; p. 903.
Zinc, Metallurgy of. F. L. Clerc. No. 1,012,816; Dec. 26; Sp. p. 5384; Gaz. vol. 173; p. 955.
Zinc or zinc oxid, Separating. G. Wannschaff and J. Savelsberg. No. 999,420; Aug. 1; Sp. p. 450; Gaz. vol. 169; p. 79.
Zinc ores and compounds, Metallurgy of. A. L. J. Queneau. No. 1,006,876; Oct. 24; Sp. p. 5117; Gaz. vol. 171; p. 902.
Zinc ores for the recovery of metallic zinc therefrom, Treating. H. H. Hughes. No. 980,641; Jan. 3; Sp. p. 987; Gaz. vol. 162; p. 161.
Zinc oxid from zinc ores and zinc residues, Production of. W. Hommel. No. 1,002,401; Sept. 5; Sp. p. 514; Gaz. vol. 170; p. 72.
Zinc oxid, Manufacture of. A. Blum. No. 993,019; May 23; Sp. p. 4701; Gaz. vol. 166; p. 856.
Zinc sulfid, Manufacture of. J. Koetschet and J. C. A. Meyer. No. 1,001,415; Aug. 22; Sp. p. 4772; Gaz. vol. 169; p. 860.
Zinc-sulfite sludge, Utilizing. A. A. Claflin. No. 994,502; June 6; Sp. p. 825; Gaz. vol. 167; p. 138.
Zinc sulfo-amid, Making. S. Peacock. No. 1,009,558; Nov. 21; Sp. p. 4310; Gaz. vol. 172; p. 742.
Zinc vapor to liquid metal, Method of and apparatus for condensing. C. Thierry and J. Thomson. No. 994,889; June 13; Sp. p. 1764; Gaz. vol. 167; p. 311.
Zither-keyboard. F. Menzenhauer. No. 989,275; Apr. 11; Sp. p. 2078; Gaz. vol. 165; p. 355.
Zithers and other stringed musical instruments, Playing attachment for. B. and G. Zendron. No. 984,176; Feb. 14; Sp. p. 1992; Gaz. vol. 163; p. 342.
Zwieback-cutter. H. H. Hungerford. No. 982,366; Jan. 24; Sp. p. 4848; Gaz. vol. 162; p. 839.

ALPHABETICAL LIST OF DESIGNS.

Advertising display-card. M. M. Harris. No. 41,460; June 13; Gaz. vol. 167; p. 492.
Air-circulator casing. J. Keith. No. 41,269; Mar. 28; Gaz. vol. 164; p. 955.
Aquarium. S. Jacob. No. 41,977; Dec. 12; Gaz. vol. 173; p. 563.
Arm-chair. E. P. Wanner. No. 41,617; July 25; Gaz. vol. 168; p. 1010.
Automobile-body. F. P. Stone. No. 41,827; Oct. 3; Gaz. vol. 171; p. 201.
Automobile-horn. J. J. Cohn. No. 41,154; Feb. 7; Gaz. vol. 163; p. 213.
Automobile-horn. E. Rubes. No. 41,207; Feb. 28; Gaz. vol. 163; p. 959.
Automobile-horn. E. Rubes. No. 41,345; May 2; Gaz. vol. 166; p. 229.
Automobile-horn. L. Rubes. No. 41,346; May 2; Gaz. vol. 166; p. 229.
Automobile-horn. L. Rubes. No. 41,399; May 23; Gaz. vol. 166; p. 965.
Automobile-horn. G. De Marzo. No. 41,703; Aug. 22; Gaz. vol. 169; p. 923.
Automobile-horn. S. Calautti. No. 41,897; Nov. 7; Gaz. vol. 172; p. 234.
Automobile radiator-fillers, Cap for. G. T. Verreault. No. 41,596; July 18; Gaz. vol. 168; p. 769.
Automobile side lamp-bracket. W. H. Cameron. No. 41,742; Sept. 5; Gaz. vol. 170; p. 216.
Automobile-tops, Rear window for. W. H. Cameron. No. 41,684; Aug. 15; Gaz. vol. 169; p. 680.
Automobile-tops, Spreader member for the bars of. B. Rubenstein. No. 41,597; July 18; Gaz. vol. 168; p. 770.
Automobiles, Combined radiator, lamp, and fender-bracket for. W. H. Cameron. No. 41,774; Sept. 12; Gaz. vol. 170; p. 458.
Badge. G. E. Nerney. No. 41,152; Feb. 7; Gaz. vol. 163; p. 213.
Badge. W. E. Edwards. No. 41,259; Mar. 28; Gaz. vol. 164; p. 953.
Badge. R. Baden-Powell. No. 41,412; May 30; Gaz. vol. 166; p. 1262.
Badge. J. E. West. No. 41,532; July 4; Gaz. vol. 168; p. 227.
Badge, button, or similar article. H. G. Henne. No. 41,551; July 11; Gaz. vol. 168; p. 497.
Badge or button. J. H. Klieves. No. 42,050; Dec. 26; Gaz. vol. 173; p. 1055.
Badge or emblem. O. J. Lehrer. No. 41,374; May 16; Gaz. vol. 166; p. 732.
Badge or emblem. P. J. Callowhill. No. 41,653; Aug. 8; Gaz. vol. 169; p. 427.
Badge or emblem. G. E. Nerney. No. 41,922; Nov. 14; Gaz. vol. 172; p. 524.
Badge or emblem. G. E. Van Sise. No. 41,962; Dec. 12; Gaz. vol. 173; p. 560.
Badge or emblem, Fraternity. R. C. Wagner, Jr. No. 41,761; Sept. 12; Gaz. vol. 170; p. 456.
Badge or jewel. G. E. Nerney. No. 41,180; Feb. 21; Gaz. vol. 163; p. 706.
Badge or similar article. C. D. Graton. No. 41,260; Mar. 28; Gaz. vol. 164; p. 953.
Badge or similar article. J. G. Hardy. No. 41,261; Mar. 28; Gaz. vol. 164; p. 953.
Badge or similar article. C. H. Child. No. 41,691; Aug. 22; Gaz. vol. 169; p. 921.
Badge or similar article. H. S. Martin and C. Borst. No. 41,692; Aug. 22; Gaz. vol. 169; p. 921.
Badge or similar article. A. Kopetschny. No. 42,051; Dec. 26; Gaz. vol. 173; p. 1056.
Badge, Souvenir-. C. E. Penez. No. 41,422; June 6; Gaz. vol. 167; p. 216.
Bag, Traveling-. C. Gerth. No. 41,393; May 16; Gaz. vol. 166; p. 736.
Baking-shell. A. H. Gosnell. No. 41,395; May 23; Gaz. vol. 166; p. 965.
Ball. F. A. Cigol. No. 41,920; Nov. 7; Gaz. vol. 172; p. 238.
Bandeau. G. R. Farrell. No. 41,486; June 20; Gaz. vol. 167; p. 737.
Barber-pole. G. M. Mayer. No. 41,728; Aug. 29; Gaz. vol. 169; p. 1159.
Barrette. J. E. Skiff. No. 41,360; May 9; Gaz. vol. 166; p. 491.
Barrette or comb. W. S. Bechtold. No. 41,122; Jan. 24; Gaz. vol. 162; p. 978.
Base-plate for standards or similar articles. J. H. Astruck. No. 41,686; Aug. 15; Gaz. vol. 169; p. 680.
Bath-mat. A. F. Krakauer. No. 41,194; Feb. 21; Gaz. vol. 163; p. 708.
Bed-cabinet. J. Lyons. Nos. 41,995–6; Dec. 19; Gaz. vol. 173; pp. 831–2.
Bed support, Cot-. M. R. Rodrigues. No. 41,541; July 4; Gaz. vol. 168; p. 229.
Beds, Trimming-band for metal. D. E. Evans. No. 41,818; Oct. 3; Gaz. vol. 171; p. 199.
Bedstead. J. L. Moore. Nos. 41,568–71; July 11; Gaz. vol. 168; pp. 500–1.
Bedstead. J. L. Moore. Nos. 41,639–40; Aug. 1; Gaz. vol. 169; p. 182.
Bicycle-frame. J. B. Parmelee. No. 41,564; July 11; Gaz. vol. 168; p. 499.
Billiard-table. C. Hine. No. 41,289; Apr. 4; Gaz. vol. 165; p. 228.
Billiard-table. C. Hine. No. 41,699; Aug. 22; Gaz. vol. 169; p. 923.
Billiard-table. C. Hine. No. 41,864; Oct. 24; Gaz. vol. 171; p. 961.
Billiard-table. C. Hine. No. 41,929; Nov. 14; Gaz. vol. 172; p. 525.
Border-section. G. B. Lewis. No. 41,396; May 23; Gaz. vol. 166; p. 965.
Bottle. H. O. Brawner. No. 41,238; Mar. 14; Gaz. vol. 164; p. 486.
Bottle. E. H. Marsters. No. 41,559; July 11; Gaz. vol. 168; p. 499.
Bottle. L. F. Richards. No. 41,700; Aug. 22; Gaz. vol. 169; p. 923.
Bottle. C. A. Ewing. No. 41,701; Aug. 22; Gaz. vol. 169; p. 923.
Bottle. C. A. Sutherland. No. 41,855; Oct. 24; Gaz. vol. 171; p. 959.
Bottle and stopper therefor. B. F. Hays. No. 41,560; July 11; Gaz. vol. 168; p. 499.
Bottle-cap remover. N. Roemer and R. Hawksley. No. 42,062; Dec. 26; Gaz. vol. 173; p. 1058.
Bottle-cap remover. H. L. Vaughan. No. 42,070; Dec. 26; Gaz. vol. 173; p. 1059.
Bottle-opener. E. H. Morgan. No. 41,124; Jan. 24; Gaz. vol. 162; p. 978.
Bottle-opener. I. Francis. No. 41,178; Feb. 14; Gaz. vol. 163; p. 464.
Bottle-opener. H. L. Beach. No. 41,807; Sept. 26; Gaz. vol. 170; p. 912.
Bottle-opener. J. L. Sommer. Nos. 41,894–5; Nov. 7; Gaz. vol. 172; p. 233.
Bottle-rack. R. A. Welch. No. 41,364; May 9; Gaz. vol. 166; p. 492.
Bow-holder. E. R. Juergens. No. 41,964; Dec. 12; Gaz. vol. 173; p. 560.
Bow, Pendant-. F. Mink. No. 41,552; July 11; Gaz. vol. 168; p. 497.
Bowl. J. H. Astruck. No. 41,535; July 4; Gaz. vol. 168; p. 228.
Bowl or similar article, Sugar-. A. J. Sanford. No. 41,764; Sept. 12; Gaz. vol. 170; p. 456.
Bowling-balls, Carrying-case for. J. W. Hubbell. No. 41,926; Nov. 14; Gaz. vol. 172; p. 524.
Box. A. Albright, Jr. No. 41,819; Oct. 3; Gaz. vol. 171; p. 199.
Box-mat. R. Gair. Nos. 41,272–3; Mar. 28; Gaz. vol. 164; pp. 955–6.
Box-strip. R. Gair. Nos. 41,274–5; Mar. 28; Gaz. vol. 164; p. 956.
Bracelet. J. Lukowski. No. 41,779; Sept. 19; Gaz. vol. 170; p. 686.
Braid or trimming. R. H. Averns. Nos. 42,000–12; Dec. 19; Gaz. vol. 173; pp. 833–5.
Bridge-hook and chalk-holder, Combined. G. J. Bott. No. 41,469; June 13; Gaz. vol. 167; p. 494.
Brooch. W. E. Field. No. 41,174; Feb. 14; Gaz. vol. 163; p. 463.
Brooch. F. W. Koonz. No. 41,186; Feb. 21; Gaz. vol. 163; p. 706.
Brooch, pin, buckle, or similar article. G. E. Nerney. Nos. 41,181–5; Feb. 21; Gaz. vol. 163; p. 706.
Broom. J. Fritz. No. 41,796; Sept. 19; Gaz. vol. 170; p. 690.
Broom and dust-pan hanger. W. H. Kremer. No. 41,319; Apr. 18; Gaz. vol. 165; p. 708.
Brush, Hair-. A. B. Mackenzie. No. 41,634; Aug. 1; Gaz. vol. 169; p. 181.
Brush, Hair-. J. Webster. No. 41,768; Sept. 12; Gaz. vol. 170; p. 457.
Brush, Hair-. C. H. Norton. No. 41,931; Nov. 21; Gaz. vol. 172; p. 799.
Brush-holder. E. F. Hadley and C. C. Holden. No. 41,593; July 18; Gaz. vol. 168; p. 769.
Brush holder, Tooth-. S. Sternau. No. 41,679; Aug. 15; Gaz. vol. 169; p. 679.

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Brush or similar article. T. W. Foster. Nos. 41,852–3; Oct. 24; Gaz. vol. 171; p. 959.
Brush, Shaving-. J. Webster. No. 41,266; Mar. 28; Gaz. vol. 164; p. 954.
Brush, Tooth-. J. F. Kress. No. 41,285; Apr. 4; Gaz. vol. 165; p. 227.
Brushes or similar articles, Back of. W. C. Codman. Nos. 41,264–5; Mar. 28; Gaz. vol. 164; p. 954.
Buckle, Belt-. J. R. Smith. No. 41,814; Oct. 3; Gaz. vol. 171; p. 199.
Buckle, Belt-. I. Haimovitz. No. 42,044; Dec. 26; Gaz. vol. 173; p. 1054.
Button. R. Liebmann. No. 41,808; Sept. 26; Gaz. vol. 170; p. 912.
Button, Double collar-. L. Burke. No. 41,982; Dec. 19; Gaz. vol. 173; p. 829.
C-clamp body. A. M. Colt. No. 41,287; Apr. 4; Gaz. vol. 165; p. 227.
Cabinet. L. N. Levinsohn. No. 41,391; May 16; Gaz. vol. 166; p. 736.
Cabinet. M. Keen. No. 41,402; May 23; Gaz. vol. 166; p. 966.
Cabinet. E. F. Pooley. Nos. 41,732–4; Aug. 29; Gaz. vol. 169; pp. 1160–1.
Cabinet. H. C. Gowran. No. 41,777; Sept. 12; Gaz. vol. 170; p. 459.
Cabinet, Display and dispensing. H. A. Austin. No. 41,371; May 9; Gaz. vol. 166; p. 493.
Cabinet, Kitchen-. J. H. Goehst and R. G. Carpenter. No. 41,096; Jan. 17; Gaz. vol. 162; p. 762.
Cabinet, Spool-. W. A. Leonard. No. 41,976; Dec. 12; Gaz. vol. 173; p. 563.
Cabinet table, Kitchen-. Z. Knapp. No. 41,689; Aug. 15; Gaz. vol. 169; p. 681.
Camera-casing. A. C. Ford. No. 41,900; Nov. 7; Gaz. vol. 172; p. 234.
Candlestick. G. R. West. No. 41,256; Mar. 21; Gaz. vol. 164; p. 721.
Candlestick. R. Haley. Nos. 41,300–1; Apr. 11; Gaz. vol. 165; p. 454.
Candlestick. A. J. Sanford. No. 41,590; July 18; Gaz. vol. 168; p. 768.
Candy-tongs. W. W. Bevan. Nos. 41,294–5; Apr. 11; Gaz. vol. 165; p. 453.
Cane-head. E. Sayer. No. 41,954; Dec. 5; Gaz. vol. 173; p. 266.
Canister. F. Tilford. No. 41,239; Mar. 14; Gaz. vol. 164; p. 486.
Card-back or similar article. D. S. Hawkins. No. 41,657; Aug. 8; Gaz. vol. 169; p. 428.
Card or photograph holder. W. C. Klee. No. 41,125; Jan. 24; Gaz. vol. 162; p. 978.
Cards, Suit for playing-. N. F. Nelson. No. 41,310; Apr. 11; Gaz. vol. 165; p. 456.
Carpet. E. G. Sauer. No. 41,195; Feb. 21; Gaz. vol. 163; p. 708.
Carpet. W. A. Elliot. No. 41,196; Feb. 21; Gaz. vol. 163; p. 708.
Carpet. J. H. Witzel. No. 41,231; Mar. 7; Gaz. vol. 164; p. 234.
Carpet. F. Schindler. No. 41,232; Mar. 7; Gaz. vol. 164; p. 234.
Carpet. L. W. Jones. No. 41,250; Mar. 14; Gaz. vol. 164; p. 488.
Carpet. J. Merry. No. 41,251; Mar. 14; Gaz. vol. 164; p. 488.
Carpet. J. B. Moffat. No. 41,252; Mar. 14; Gaz. vol. 164; p. 489.
Carpet. W. G. Reith. Nos. 41,253–4; Mar. 14; Gaz. vol. 164; p. 489.
Carpet. E. G. Sauer. No. 41,255; Mar. 14; Gaz. vol. 164; p. 489.
Carpet. M. R. Loudon. No. 41,458; June 6; Gaz. vol. 167; p. 223.
Carpet. E. G. Sauer. No. 41,459; June 6; Gaz. vol. 167; p. 223.
Carpet. J. Merry. Nos. 41,471–4; June 13; Gaz. vol. 167; p. 495.
Carpet. J. B. Moffat. No. 41,475; June 13; Gaz. vol. 167; p. 495.
Carpet. E. G. Sauer. No. 41,476; June 13; Gaz. vol. 167; p. 495.
Carpet. W. A. Elliot. No. 41,503; June 20; Gaz. vol. 167; p. 741.
Carpet. J. Merry. Nos. 41,504–7; June 20; Gaz. vol. 167; p. 741.
Carpet. J. B. Moffat. No. 41,508; June 20; Gaz. vol. 167; p. 741.
Carpet. W. G. Reith. No. 41,509; June 20; Gaz. vol. 167; p. 742.
Carpet. W. A. Elliot. No. 41,520; June 27; Gaz. vol. 167; p. 961.
Carpet. L. W. Jones. Nos. 41,521–2; June 27; Gaz. vol. 167; p. 962.
Carpet. J. Merry. Nos. 41,523–5; June 27; Gaz. vol. 167; p. 962.
Carpet. J. H. Witzel. No. 41,526; June 27; Gaz. vol. 167; p. 962.
Carpet. W. A. Elliot. No. 41,573; July 11; Gaz. vol. 168; p. 501.
Carpet. J. B. Moffat. No. 41,574; July 11; Gaz. vol. 168; p. 501.
Carpet. F. Schindler. Nos. 41,575–7; July 11; Gaz. vol. 168; pp. 501–2.
Carpet. W. A. Spring. No. 41,578; July 11; Gaz. vol. 168; p. 502.
Carpet. J. Merry. Nos. 41,621–4; July 25; Gaz. vol. 168; p. 1011.
Carpet. W. A. Spring. No. 41,625; July 25; Gaz. vol. 168; p. 1011.
Carpet. W. A. Elliot. Nos. 41,643–6; Aug. 1; Gaz. vol. 169; pp. 182–3.
Carpet. M. R. Loudon. Nos. 41,647–8; Aug. 1; Gaz. vol. 169; p. 183.
Carpet. J. B. Moffat. No. 41,649; Aug. 1; Gaz. vol. 169; p. 183.
Carpet. W. G. Reith. No. 41,650; Aug. 1; Gaz. vol. 169; p. 183.
Carpet. E. G. Sauer. Nos. 41,651–2; Aug. 1; Gaz. vol. 169; p. 184.
Carpet. W. A. Elliot. Nos. 41,669–71; Aug. 8; Gaz. vol. 169; p. 430.
Carpet. M. R. Loudon. Nos. 41,672–3; Aug. 8; Gaz. vol. 169; p. 431.
Carpet. E. G. Sauer. No. 41,674; Aug. 8; Gaz. vol. 169; p. 431.
Carpet. J. Spring. No. 41,675; Aug. 8; Gaz. vol. 169; p. 431.
Carpet. W. G. Reith. No. 41,751; Sept. 5; Gaz. vol. 170; p. 218.
Carpet. E. W. Trik. No. 41,752; Sept. 5; Gaz. vol. 170; p. 218.
Carpet. J. Wishart. Nos. 41,753–4; Sept. 5; Gaz. vol. 170; p. 218.
Carpet. J. Merry. Nos. 42,032–5; Dec. 19; Gaz. vol. 173; pp. 838–9.
Carpet. J. B. Moffat. No. 42,036; Dec. 19; Gaz. vol. 173; p. 839.
Carpet. W. G. Reith. Nos. 42,037–8; Dec. 19; Gaz. vol. 173; p. 839.
Carpet. E. G. Sauer. No. 42,039; Dec. 19; Gaz. vol. 173; p. 840.
Carpet. F. Schindler. No. 42,040; Dec. 19; Gaz. vol. 173; p. 840.
Carpet or rug. J. S. Brown. Nos. 41,957–8; Dec. 5; Gaz. vol. 173; pp. 266–7.
Carpet or rug. A J. Green. No. 42,043; Dec. 26; Gaz. vol. 173; p. 1054.
Carpet or rug. J. G. Pegel. Nos. 42,056–9; Dec. 26; Gaz. vol. 173; p. 1057.
Carpet or rug. W. E. Sayers. Nos. 42,063–5; Dec. 26; Gaz. vol. 173; p. 1058.
Carriage body, Baby-. J. R. Spencer. No. 41,354; May 2; Gaz. vol. 166; p. 231.
Carriages and motor-vehicles, Bumper for. M. Tibbetts. No. 41,367; May 9; Gaz. vol. 166; p. 493.
Carton. E. R. L. Thayer. No. 41,149; Jan. 31; Gaz. vol. 162; p. 1171.
Casing or carton. G. D. McLaughlin. No. 41,098; Jan. 17; Gaz. vol. 162; p. 762.
Casket handle, Burial-. C. Blesch. No. 41,193; Feb. 21; Gaz. vol. 163; p. 708.
Casket handle, Burial-. C. Blesch. Nos. 41,331–2; Apr. 25; Gaz. vol. 165; pp. 952–3.
Casket handle, Burial-. P. R. Zinser. No. 41,540; July 4; Gaz. vol. 168; p. 229.
Casket handle, Burial-. C. Blesch. No. 41,565; July 11; Gaz. vol. 168; p. 500.
Casket handle, Burial-. C. Blesch. No. 41,594; July 18; Gaz. vol. 168; p. 769.
Casserole-holder. C. D. Golden. No. 41,489; June 20; Gaz. vol. 167; p. 738.
Ceiling-plate. L. W. Andersen. No. 41,387; May 16; Gaz. vol. 166; p. 735.
Chafing-dish. A. H. S. Swan. Nos. 41,716–17; Aug. 29; Gaz. vol. 169; pp. 1156–7.
Chafing-dish and stand. C. Nelson. No. 41,325; Apr. 25; Gaz. vol. 165; p. 951.
Chafing-dish and stand. C. M. Prior and C. Nelson. No. 41,719; Aug. 29; Gaz. vol. 169; p. 1157.
Chafing-dish stand. A. H. S. Swan. No. 41,718; Aug. 29; Gaz. vol. 169; p. 1157.
Chafing-dish stand. C. M. Prior and C. Nelson. No. 41,720; Aug. 29; Gaz. vol. 169; p. 1157.
Chain, Drive-. J. M. Dodge. No. 41,351; May 2; Gaz. vol. 166; p. 230.
Chair, Barber's. W. F. Koken. No. 41,392; May 16; Gaz. vol. 166; p. 736.
Chair, Barber's. W. F. Koken. No. 41,823; Oct. 3; Gaz. vol. 171; p. 200.
Chandelier, Electric. E. F. Guth. No. 41,378; May 16; Gaz. vol. 166; p. 733.
Chandelier, Gas-. P. A. Rose. No. 41,641; Aug. 1; Gaz. vol. 169; p. 182.
Chandelier-trimming. H. Gothberg. No. 41,705; Aug. 22; Gaz. vol. 169; p. 924.
Chandeliers and lighting-fixtures, Extension-ring and body-shell for. E. L. White. Nos. 41,990–2; Dec. 19; Gaz. vol. 173; pp. 830–1.

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Cigar-cutter. O. Kampfe. No. 41,433; June 6; Gaz. vol. 167; p. 218.
Cigar-cutter case, Locket. C. M. Levy. No. 41,847; Oct. 17; Gaz. vol. 171; p. 723.
Cigar-cutter frame. K. Stenman. No. 42,066; Dec. 26; Gaz. vol. 173; p. 1059.
Cigarette-case. H. O. Bigney. No. 41,806; Sept. 26; Gaz. vol. 170; p. 912.
Cigarette-case. H. O. Bigney. No. 41,858; Oct. 24; Gaz. vol. 171; p. 960.
Clasp. A. M. Ziegler. No. 41,343; May 2; Gaz. vol 166; p. 229.
Clock-case. I. Bogdanoff. No. 41,604; July 25; Gaz. vol. 168; p. 1007.
Clock case, Alarm-. E. M. Walker. No. 41,967; Dec. 12; Gaz. vol. 173; p. 561.
Clock casing, Alarm-. G. Kern. No. 41,725; Aug. 29; Gaz. vol. 169; p. 1159.
Clocks and vending-machines, Casing for. G. L. Hogan. No. 41,320; Apr. 18; Gaz. vol. 165; p. 709.
Coaster. C. Nelson and H. Strassburger. No. 41,376; May 16; Gaz. vol. 166; p. 733.
Cocktail-glass. P. Ebeling. No. 41,236; Mar. 14; Gaz. vol. 164; p. 485.
Coffee-pot, Percolating. C. Nelson. No. 41,723; Aug. 29; Gaz. vol. 169; p. 1158.
Coin-receiver. C. C. Travis. No. 41,468; June 13; Gaz. vol. 167; p. 494.
Collar. A. Siegel. No. 41,483; June 13; Gaz. vol. 167; p. 497.
Collar. W. P. Schramm. No. 41,549; July 4; Gaz. vol. 168; p. 231.
Collar. W. Simon. No. 41,904; Nov. 7; Gaz. vol. 172; p. 235.
Collar-stay frame. J. Du Quette. No. 41,586; July 11; Gaz. vol. 168; p. 504.
Comic duck. W. K. Patrick and R. E. L. Costan. No. 41,946; Nov. 28; Gaz. vol. 172; p. 1075.
Compote-dish. R. Haley. No. 41,176; Feb. 14; Gaz. vol. 163; p. 464.
Cone-serving device. W. and H. S. Reese. No. 41,726; Aug. 29; Gaz. vol. 169; p. 1159.
Cooler. A. L. Boggs. No. 41,748; Sept. 5; Gaz. vol. 170; p. 217.
Corner-bracket. E. E. Hedelius. No. 41,862; Oct. 24; Gaz. vol. 171; p. 961.
Cornet. F. L. Hurtt. No. 41,613; July 25; Gaz. vol. 168; p. 1009.
Cotton piece goods. A. L. Lowenstein. Nos. 41,279–83; Mar. 28; Gaz. vol. 164; pp. 956–7.
Counter, Combination-. W. G. and S. J. Sherer. No. 41,208; Feb. 28; Gaz. vol. 163; p. 959.
Cover for boxes or similar articles. T. W. Foster. No. 41,384; May 16; Gaz. vol. 166; p. 735.
Crusher-machine casing. J. L. Hiller. No. 41,097; Jan. 17; Gaz. vol. 162; p. 762.
Cuspidor. J. Fedor. No. 41,704; Aug. 22; Gaz. vol. 169; p. 923.
Cuspidor. M. Bozsik. No. 41,787; Sept. 19; Gaz. vol. 170; p. 687.
Cuspidor. J. Kowalski. No. 41,788; Sept. 19; Gaz. vol. 170; p. 688.
Cuspidor. S. Megyesy. No. 41,856; Oct. 24; Gaz. vol. 171; p. 960.
Cuspidor. F. Balogh. No. 41,857; Oct. 24; Gaz. vol. 171; p. 960.
Cuspidor. K. Kolek. No. 41,925; Nov. 14; Gaz. vol. 172; p. 524.
Cuspidor. M. Filip. No. 41,934; Nov. 21; Gaz. vol. 172; p. 799.
Cycle attachment-body, Motor-. H. K. Hedges. No. 41,390; May 16; Gaz. vol. 166; p. 736.
Cycle frame, Motor-. J. S. Booth. No. 41,729; Aug. 29; Gaz. vol. 169; p. 1160.
Dentists' bracket-tables, Top for. G. W. Grant. No. 41,268; Mar. 28; Gaz. vol. 164; p. 955.
Derail-block. S. W. Hayes. No. 41,612; July 25; Gaz. vol. 168; p. 1008.
Desk. K. R. Dunton. Nos. 41,150–1; Jan. 31; Gaz. vol. 162; p. 1171.
Dish. A. J. Sanford. No. 41,533; July 4; Gaz. vol. 168; p. 228.
Dish-container. F. Edlund. No. 42,042; Dec. 26; Gaz. vol. 173; p. 1054.
Dish, Fan-scalloped. D. J. Branning. No. 41,205; Feb. 28; Gaz. vol. 163; p. 958.
Dish or similar device, Covered. C. E. Haviland. Nos. 41,463–4; June 13; Gaz. vol. 167; p. 493.
Dish, Vegetable-. T. Bender. No. 41,766; Sept. 12; Gaz. vol. 170; p. 457.
Disinfectors, Casing for drip-. M. M. Marcus. No. 41,219; Mar. 7; Gaz. vol. 164; p. 231.
Dispensing-apparatus casing. W. O. Amsler. No. 41,790; Sept. 19; Gaz. vol. 170; p. 688.
Dispensing-receptacle. C. E. MacKusick. No. 41,491; June 20; Gaz. vol. 167; p. 738.
Display-board. F. L. Fuhr. No. 41,727; Aug. 29; Gaz. vol. 169; p. 1159.
Display-case. D. Weinstock. No. 41,370; May 9; Gaz. vol. 166; p. 493.
Display-case. P. Rapoport. No. 41,975; Dec. 12; Gaz. vol. 173; p. 562.
Display-desk for sample-books, sample-cards, and swatches. E. E. Strauss. No. 41,863; Oct. 24; Gaz. vol. 171; p. 961.
Display-rack. D. H. Archibald. No. 41,087; Jan. 10; Gaz. vol. 162; p. 525.
Display-rack. O. Lee. No. 41,539; July 4; Gaz. vol. 168; p. 229.
Display-stand. H. Hohmer. No. 41,688; Aug. 15; Gaz. vol. 169; p. 681.
Display stand, Brush-. H. Alexander. No. 41,638; Aug. 1; Gaz. vol. 169; p. 181.
Display stand, Pencil-. W. H. Dalton. No. 41,538; July 4; Gaz. vol. 168; p. 229.
Doily. R. Gair. Nos. 41,276–8; Mar. 28; Gaz. vol. 164; p. 956.
Doll. B. Rosetstein. No. 41,730; Aug. 29; Gaz. vol. 169; p. 1160.
Doll. D. Rosenthal. Nos. 41,997–8; Dec. 19; Gaz. vol. 173; p. 832.
Drinking-straws, Receptacle for dispensing. F. W. Shee. No. 41,859; Oct. 24; Gaz. vol. 171; p. 960.
Drinking vessel. A. Gredelue. No. 41,341; May 2; Gaz. vol. 166; p. 229.
Edging, Woven. H. Müller. No. 41,070; Jan. 3; Gaz. vol. 162; p. 252.
Electrical conductors, Spring fastening device for. J. Schade, Jr. No. 41,493; June 20; Gaz. vol. 167; p. 739.
Electrical receptacle. W. C. Wade and R. E. Kerins. No. 41,218; Mar. 7; Gaz. vol. 164; p. 231.
Electrically-driven machines, Stand for. H. W. Spellman. No. 41,795; Sept. 19; Gaz. vol. 170; p. 689.
Electrolier-body. G. H. Ullman. Nos. 41,379–82; May 16; Gaz. vol. 166; pp. 733–4.
Emblem. A. W. Margileth. No. 41,233; Mar. 14; Gaz. vol. 164; p. 484.
Emblem. M. E. Moore. No. 41,676; Aug. 15; Gaz. vol. 169; p. 679.
Emblem, Fraternal. G. E. Nerney. No. 41,063; Jan. 3; Gaz. vol. 162; p. 251.
Engine body, Traction-. E. M. Wheelock. No. 41,707; Aug. 22; Gaz. vol. 169; p. 924.
Engines, Casing for multicylinder gas-. W. Kelly. No. 41,543; July 4; Gaz. vol. 168; p. 230.
Eyeglass-mounting guard. F. W. King. No. 41,763; Sept. 12; Gaz. vol. 170; p. 456.
Eyeglass nose-guard. A. S. Van Denburgh. No. 41,324; Apr. 25; Gaz. vol. 165; p. 951.
Fabric, Embossed textile. M. Frank. No. 41,071; Jan. 3; Gaz. vol. 162; p. 252.
Fabric, Open-mesh. A. G. Jennings. No. 41,919; Nov. 7; Gaz. vol. 172; p. 237.
Fabric or paper for covering walls or book-covers. J. N. Wiggin. No. 41,572; July 11; Gaz. vol. 168; p. 501.
Fabric or wall-paper, Textile. E. Hartman. No. 41,875; Oct. 31; Gaz. vol. 171; p. 1233.
Fabric or wall-paper, Textile. E. Hoch. Nos. 41,876–9; Oct. 31; Gaz. vol. 171; p. 1233.
Fabric or wall-paper, Textile. W. C. Korzinek. Nos. 41,880–3; Oct. 31; Gaz. vol. 171; pp. 1233–4.
Fabric or wall-paper, Textile. E. Munier. Nos. 41,884–6; Oct. 31; Gaz. vol. 171; p. 1234.
Fabric, Textile. G. M. Fauser. Nos. 41,101–5; Jan. 17; Gaz. vol. 162; pp. 763–4.
Fabric, Textile. G. Gegenheimer. No. 41,311; Apr. 11; Gaz. vol. 165; p. 456.
Fabric, Textile. J. J. Lambert. No. 41,661; Aug. 8; Gaz. vol. 169; p. 429.
Fabric, Textile. K. Nonaka. No. 41,715; Aug. 22; Gaz. vol. 169; p. 925.
Fabric, Textile. G. M. Fauser. No. 41,735; Aug. 29; Gaz. vol. 169; p. 1161.
Fabric, Textile. G. M. Fauser. Nos. 41,866–7; Oct. 24; Gaz. vol. 171; pp. 961–2.
Fabric, Textile. G. M. Fauser. No. 41,887; Oct. 31; Gaz. vol. 171; p. 1235.
Fabric, Textile. H. W. Fowler. Nos. 41,888–9; Oct. 31; Gaz. vol. 171; p. 1235.
Fabric, Textile. A. Olsson. No. 41,890; Oct. 31; Gaz. vol. 171; p. 1235.
Fabric, Textile. P. Dupont. Nos. 41,906–7; Nov. 7; Gaz. vol. 172; p. 235.
Fabric, Textile. R. Gattiker. Nos. 41,908–10; Nov. 7; Gaz. vol. 172; p. 236.
Fabric, Textile. P. Mouton. No. 41,911; Nov. 7; Gaz. vol. 172; p. 236.
Fabric, Textile. P. and F. Scheidecker. No. 41,912; Nov. 7; Gaz. vol. 172; p. 236.
Fabric, Textile. E. Sins. Nos. 41,913–18; Nov. 7; Gaz. vol. 172; pp. 236–7.
Fabric, Textile. G. M. Fauser. No. 41,935; Nov. 21; Gaz. vol. 172; p. 800.
Fabric, Textile. J. J. Lambert. Nos. 42,052–3; Dec. 26; Gaz. vol. 173; p. 1056.
Fabric, Woven textile. H. T. Loomis. No. 41,813; Sept. 26; Gaz. vol. 170; p. 913.
Fan frame and support, Electric-. H. H. Hirsch. No. 41,848; Oct. 17; Gaz. vol. 171; p. 723.
Faucet. H. S. Cornish. No. 41,840; Oct. 10; Gaz. vol. 171; p. 461.

Alphabetical list of designs—Continued.

Filament, Electric-lamp. T. A. Willard. No. 41,873; Oct. 31; Gaz. vol. 171; p. 1232.
Filter-casing. F. B. Anderson, No. 41,321; Apr. 18; Gaz. vol. 165; p. 709.
Floor-polisher. W. D. Bunny. No. 41,495; June 20; Gaz. vol. 167; p. 739.
Flower-pot cover. H. J. Smith. No. 41,710; Aug. 22; Gaz. vol. 169; p. 924.
Flushing-tank for water-closets. J. F. Kelly. No. 41,979; Dec. 12; Gaz. vol. 173; p. 563.
Fly-killer. N. H. Fogg. No. 41,606; July 25; Gaz. vol. 168; p. 1007.
Fob. A. Reininger. No. 41,693; Aug. 22; Gaz. vol. 169; p. 921.
Forks, spoons, or similar articles, Handle of. G. E. Curtiss. No. 41,561; July 11; Gaz. vol. 168; p. 499.
Fountain, Liquid-dispensing. F. W. Calvert. No. 41,365; May 9; Gaz. vol. 166; p. 493.
Fountain, Poultry-. C. Quebe. No. 42,061; Dec. 26; Gaz. vol. 173; p. 1058.
Frame for pictures, mirrors, or similar articles. J. R. Foster. No. 41,762; Sept. 12; Gaz. vol. 170; p. 456.
Garage-emblem. O. Knoerzer. No. 41,485; June 20; Gaz. vol. 167; p. 737.
Garment-hanger. M. A. Gilman. No. 41,344; May 2; Gaz. vol. 166; p. 229.
Gas-burner pillar. M. Kirchberger. No. 41,659; Aug. 8; Gaz. vol. 169; p. 428.
Gas-lighting fixture. J. Doyle. No. 41,682; Aug. 15; Gaz. vol. 169; p. 680.
Gate, Metallic. J. H. Wheelock. No. 41,307; Apr. 11; Gaz. vol. 165; p. 455.
Glass goblet or similar article. C. O Northwood. Nos. 41,677–8; Aug. 15; Gaz. vol. 169; p. 679.
Glass panel. J. S. McQuinn. No. 41,286; Apr. 4; Gaz. vol. 165; p. 227.
Glass vessel. T. C. Steimer. No. 41,092; Jan. 17; Gaz. vol. 162; p. 761.
Glass vessel. C. F. Prosch. No. 41,465; June 13; Gaz. vol. 167; p. 494.
Glass vessel, Cut-. A. Turner. No. 41,833; Oct. 10; Gaz. vol. 171; p. 459.
Glass vessel or similar article. T. G. Hawkes. No. 41,153; Feb. 7; Gaz. vol. 163; p. 213.
Glass vessel or similar article. H. P. Sinclaire. No. 41,204; Feb. 28; Gaz. vol. 163; p. 958.
Glass vessel or similar article. H. S. Hunt. No. 41,555; July 11; Gaz. vol. 168; p. 498.
Glass vessel or similar article. G. E. Gaylord. No. 41,854; Oct. 24; Gaz. vol. 171; p. 959.
Glass vessel or similar article, Cut-. T. A. Shanley. No. 41,091; Jan. 17; Gaz. vol. 162; p. 761.
Glass vessel or similar article, Cut-. W. C. Anderson. No. 41,413; May 30; Gaz. vol. 166; p. 1263.
Glass vessel or similar article, Cut-. E. Herbeck. No. 41,955; Dec. 5; Gaz. vol. 173; p 266.
Glass vessel or similar article, Cut-. L. C. Herbeck. No. 42,047; Dec. 26; Gaz. vol. 173; p. 1055.
Globe or shade, Metal-necked. T. J. Litle, Jr. No. 41,177; Feb. 14; Gaz. vol. 163; p. 464.
Goblet. P. Ebeling. No. 41,237; Mar. 14; Gaz. vol. 164; p. 485.
Golf-ball. W. Pearce. No. 41,327; Apr. 25; Gaz. vol. 165; p. 952.
Golf-ball. C. W. Royce. No. 41,698; Aug. 22; Gaz. vol. 169; p. 922.
Golf-ball. W. Pearce. No. 41,817; Oct. 3; Gaz. vol. 171; p. 199.
Gravestone. W. G. Coxwell. No. 41,446; June 6; Gaz. vol. 167; p. 220.
Hair ornament. D. A. Driscoll. No. 41,965; Dec. 12; Gaz. vol. 173; p. 560.
Hair-singer, Electric. E. Schwartz. No. 41,898; Nov. 7; Gaz. vol. 172; p. 234.
Hand-bag. D. S. Stember. No. 41,482; June 13; Gaz. vol. 167; p. 497.
Handle for carriage-doors, caskets, &c. M. Tibbetts. No. 41,368; May 9; Gaz. vol. 166; p. 493.
Harp. M. A. Clark. No. 41,987; Dec. 19; Gaz. vol. 173; p. 830.
Hat. H. Holforty. No. 41,258; Mar. 21; Gaz. vol. 164; p. 721.
Hat. M. D. Nekarda. No. 41,587; July 11; Gaz. vol. 168; p. 504.
Hat-pin guard. M. Mulcahy. No. 41,780; Sept. 19; Gaz. vol. 170; p. 686.
Hat-pin holder. F. Heinz. No. 41,945; Nov. 28; Gaz. vol. 172; p. 1075.
Headlight. R. H. Welles. No. 41,397; May 23; Gaz. vol. 166; p. 965.
Headlight. R. H. Welles. No. 41,744; Sept. 5; Gaz. vol. 170; p. 216.
Hinge. J. P. McKinney. No. 42,055; Dec. 26; Gaz. vol. 173; p. 1057.
Hinge-leaf. W. H. Hart. Nos. 41,305–6; Apr. 11; Gaz. vol. 165; p. 455.
Hoe. S. J. Rawson. No. 41,595; July 18; Gaz. vol. 168; p. 769.
Hood. H. M. Richardot. No. 41,484; June 13; Gaz. vol. 167; p. 497.
Hood and waist, Combined. A. Kingsbury. No. 41,930; Nov. 14; Gaz. vol. 172; p. 525.
Hoof-pad. E. A. J. Leahy. No. 41,330; Apr. 25; Gaz. vol. 165; p. 952.
Horn. J. W. Jones. No. 41,563; July 11; Gaz. vol. 168; p. 499.
Horn-blowers, Casing for. W. H. and O. C. Unke. No. 41,861; Oct. 24; Gaz. vol. 171; p. 960.
Horn, Duplex. M. R. Hutchison. No. 41,871; Oct. 31; Gaz. vol. 171; p. 1232.
Horse-cap. M. Orioli and C. Bertolotti. No. 41,745; Sept. 5; Gaz. vol. 170; p. 216.
Image. C. H. Forbell. No. 41,211; Mar. 7; Gaz. vol. 164; p. 229.
Image. H. C. Anderson. No. 41,802; Sept. 26; Gaz. vol. 170; p. 911.
Inkstand. C. H. Numan. No. 41,589; July 18; Gaz. vol. 168; p. 768.
Inkstand. C. H. Numan. No. 41,846; Oct. 17; Gaz. vol. 171; p. 723.
Inkstand. M. Poltorak. No. 42,060; Dec. 26; Gaz. vol. 173; p. 1058.
Jar. F. A. Brown. No. 41,635; Aug. 1; Gaz. vol. 169; p. 181.
Jar. M. R. Aubry Schwahn. No. 41,702; Aug. 22; Gaz. vol. 169; p. 923.
Jewel-setting. A. Spaney and J. W. Mayer. No. 41,981; Dec. 19; Gaz. vol. 173; p. 829.
Kettle and stand. M. Weintraub. No. 41,191; Feb. 21; Gaz. vol. 163; p. 707.
Kettle and stand. C. M. Prior and C. Nelson. No. 41,722; Aug. 29; Gaz. vol. 169; p. 1158.
Kettle-stand. C. Nelson. No. 41,721; Aug. 29; Gaz. vol. 169; p. 1158.
Kite. W. A. Collins. No. 41,189; Feb. 21; Gaz. vol. 163; p. 707.
Knife. G. Puscizna. No. 41,983; Dec. 19; Gaz. vol. 173; p. 829.
Knife. W. C. Bowlen. No. 42,041; Dec. 26; Gaz. vol. 173; p. 1054.
Knife and fork, Combined. J. S. Cameron. No. 41,767; Sept. 12; Gaz. vol. 170; p. 457.
Knife, Grape-fruit and orange. D. F. Alvord. No. 41,318; Apr. 18; Gaz. vol. 165; p. 708.
Knit neckscarf, Flat-. J. H. Way. No. 41,519; June 27; Gaz. vol. 167; p. 961.
Label-blank. R. Weigang. No. 41,837; Oct. 10; Gaz. vol. 171; p. 460.
Label-blank. W. D. Teague. No. 41,978; Dec. 12; Gaz. vol. 173; p. 563.
Label-blank. C. K. Stevens. No. 42,067; Dec. 26; Gaz. vol. 173; p. 1059.
Lace edging. M. N. Aaron and C. Strickhouser. No. 41,414; May 30; Gaz. vol. 166; p. 1263.
Lace edging. M. N. Aaron and C. Strickhouser. Nos. 41,512–13; June 20; Gaz. vol. 167; p. 742.
Lace edging. M. N. Aaron and S. N. Goodman. Nos. 41,514–15; June 20; Gaz. vol. 167; p. 743.
Lace, Levers. C. W. Birkin. No. 41,953; Nov. 28; Gaz. vol. 172; p. 1076.
Lace panel. J. Herod. No. 41,952; Nov. 28; Gaz. vol. 172; p. 1076.
Lacing-hook. W. P. Bartel. No. 41,123; Jan. 24; Gaz. vol. 162; p. 978.
Lamp. C. L. Betts. No. 41,267; Mar. 28; Gaz. vol. 164; p. 954.
Lamp. C. E. Godley. No. 41,562; July 11; Gaz. vol. 168; p. 499.
Lamp. L. Schepmoes. No. 41,591; July 18; Gaz. vol. 168; p. 768.
Lamp. C. D. Golden. No. 41,681; Aug. 15; Gaz. vol. 169; p. 679.
Lamp. W. T. Jones. No. 41,743; Sept. 5; Gaz. vol. 170; p. 216.
Lamp. E. R. Lewis and D. J. Cook. No. 41,771; Sept. 12; Gaz. vol. 170; p. 458.
Lamp. W. T. Lovell. No. 42,054; Dec. 26; Gaz. vol. 173; p. 1056.
Lamp and license-tag bracket, Combination. E. M. Rosenbluth. No. 41,609; July 25; Gaz. vol. 168; p. 1008.
Lamp and license-tag bracket, Combination. E. M. Rosenbluth. No. 41,637; Aug. 1; Gaz. vol. 169; p. 181.
Lamp and license-tag bracket, Combination. J. McGrath. No. 41,972; Dec. 12; Gaz. vol. 173; p. 562.
Lamp and license-tag bracket, Combination. E. M. Rosenbluth. No. 41,973; Dec. 12; Gaz. vol. 173; p. 562.
Lamp and reflector, Vehicle-. L. Bloch. No. 41,347; May 2; Gaz. vol. 166; p. 229.
Lamp, Automobile-. W. Gray and E. E. Taylor. No. 41,542; July 4; Gaz. vol. 168; p. 230.
Lamp-body. E. M. Rosenbluth. No. 41,971; Dec. 12; Gaz. vol. 173; p. 561.
Lamp-chimney. F. W. Dressel. No. 41,786; Sept. 19; Gaz. vol. 170; p. 687.
Lamp clusters, Diffusing-globe for incandescent-. W. D. Ryan. No. 41,784; Sept. 19; Gaz. vol. 170; p. 687.
Lamp, Electric. E. E. Taggart. No. 41,302; Apr. 11; Gaz. vol. 165; p. 454.
Lamp glass or lens. G. A. Macbeth. No. 41,093; Jan. 17; Gaz. vol. 162; p. 762.

Alphabetical list of designs—Continued.

Lamp, Inverted gas arc-. L. B. London. Nos. 41,772–3; Sept. 12; Gaz. vol. 170; p. 458.
Lamp-pedestal. R. E. Ewing. No. 41,467; June 13; Gaz. vol. 167; p. 494.
Lamp, Pillar-. E. E. Taylor. No. 41,216; Mar. 7; Gaz. vol. 164; p. 230.
Lamp-post. J. L. Hamilton. No. 41,069; Jan. 3; Gaz. vol. 162; p. 252.
Lamp-post. C. R. Weatherhogg. No. 41,518; June 27; Gaz. vol. 167; p. 961.
Lamp-post. R. H. Blacklidge. No. 41,874; Oct. 31; Gaz. vol. 171; p. 1232.
Lamp-shade. H. S. Evans. No. 41,081; Jan. 10; Gaz. vol. 162; p. 524.
Lamp-shade. L. W. Young. No. 41,680; Aug. 15; Gaz. vol. 169; p. 679.
Lamp-shade. H. S. Evans. No. 41,785; Sept. 19; Gaz. vol. 170; p. 687.
Lamp-shade. S. F. Elkins. No. 41,820; Oct. 3; Gaz. vol. 171; p. 200.
Lamp-shade. H. W. Thayer. No. 41,821; Oct. 3; Gaz. vol. 171; p. 200.
Lamp-shade. W. F. M. Hawe. No. 41,970; Dec. 12; Gaz. vol. 173; p. 561.
Lamp-shade. W. F. M. Howe. No. 42,046; Dec. 26; Gaz. vol. 173; p. 1055.
Lamp-shade, Glass. G. F. Wehr. No. 41,240; Mar. 14; Gaz. vol. 164; p. 486.
Lamp, Signal-. E. E. Taylor. No. 41,215; Mar. 7; Gaz. vol. 164; p. 230.
Lamp, Street-. G. J. Murray. No. 41,303; Apr. 11; Gaz. vol. 165; p. 454.
Lamp, Street-. J. F. Murphy. Nos. 41,436–8; June 6; Gaz. vol. 167; pp. 218–19.
Lamp, Vapor-. A. H. S. Swan. No. 41,610; July 25; Gaz. vol. 168; p. 1008.
Lamp, Vehicle-. V. G. Apple. No. 41,611; July 25; Gaz. vol. 168; p. 1008.
Lamp, Vehicle-. H. M. Dawley. No. 41,706; Aug. 22; Gaz. vol. 169; p. 924.
Lavatory. J. H. Gavin. Nos. 41,841–2; Oct. 10; Gaz. vol. 171; p. 461.
Leather, Embossed. R. C. Good. No. 41,100; Jan. 17; Gaz. vol. 162; p. 763.
Leather fabric or similar article, Imitation-. J. A. Haskell. No. 42,045; Dec. 26; Gaz. vol. 173; p. 1055.
Lens and prism for illuminated signs, Light-reflecting. C. E. Hanon. No. 41,094; Jan. 17; Gaz. vol. 162; p. 762.
Lens, Illuminated-sign. H. G. Torley. No. 41,683; Aug. 15; Gaz. vol. 169; p. 680.
Lenses, Instrument for detecting internal strains in. L. W. Bugbee. No. 41,835; Oct. 10; Gaz. vol. 171; p. 460.
Lever, Rock-. R. O. King. No. 41,329; Apr. 25; Gaz. vol. 165; p. 952.
Light-fixtures, Canopy-ring for. H. E. Gothberg, Jr. No. 41,822; Oct. 3; Gaz. vol. 171; p. 200.
Light shade, Artificial-. K. Booth. No. 41,724; Aug. 29; Gaz. vol. 169; p. 1158.
Light shade, Artificial-. K. Booth. No. 41,893; Nov. 7; Gaz. vol. 172; p. 233.
Light-standard. F. C. Stimmel. No. 41,439; June 6; Gaz. vol. 167; p. 219.
Lighting-fixture. H. M. Conner. No. 41,348; May 2; Gaz. vol. 166; p. 230.
Lighting-fixture shell. E. L. White. No. 41,083; Jan. 10; Gaz. vol. 162; p. 525.
Lighting-fixture trimming. E. L. White. No. 41,084; Jan. 10; Gaz. vol. 162; p. 525.
Linoleum or oil-cloth. C. F. Humphreys. Nos. 42,048–9; Dec. 26; Gaz. vol. 173; p. 1055.
Lubricator-casing. F. G. Stephenson. No. 41,398; May 23; Gaz. vol. 166; p. 965.
Lubricator casing, Sight-feed-. M. Tibbetts. No. 41,369; May 9; Gaz. vol. 166; p. 493.
Mantel-shelf. G. E. Wilbur. No. 41,498; June 20; Gaz. vol. 167; p. 740.
Match-holder. C. F. Klein. No. 41,969; Dec. 12; Gaz. vol. 173; p. 561.
Match or toothpick dispenser. T. Kurrell and J. Haas. No. 41,214; Mar. 7; Gaz. vol. 164; p. 230.
Match-safe. H. C. Dammann. No. 41,605; July 25; Gaz. vol. 168; p. 1007.
Match-safe. L. Lundstrom. No. 41,923; Nov. 14; Gaz. vol. 172; p. 524.
Matting. C. H. Oakley. No. 41,736; Aug. 29; Gaz. vol. 169; p. 1161.
Measuring instruments, Index needle or hand for electrical. E. Weston. No. 41,349; May 2; Gaz. vol. 166; p. 230.
Megaphone. W. Sparks. No. 41,825; Oct. 3; Gaz. vol. 171; p. 201.
Mirror and stand. C. D. Golden. Nos. 41,428–9; June 6; Gaz. vol. 167; p. 217.
Mirror, Hand-. A. B. Mackenzie. No. 41,553; July 11; Gaz. vol. 168; p. 497.
Mirror or similar article. T. W. Foster. No. 41,356; May 2; Gaz. vol. 166; p. 231.
Mirrors, brushes, or similar articles, Back for toilet. J. W. Farrell. No. 41,869; Oct. 31; Gaz. vol. 171; p. 1231.
Mirrors, brushes, or similar articles, Back for toilet. J. T. Homan. No. 41,870; Oct. 31; Gaz. vol. 171; p. 1231.
Monument, Memorial. F. J. Hanold. No. 41,566; July 11; Gaz. vol. 168; p. 500.
Mop holder and drier. W. H. Lehmann. No. 41,366; May 9; Gaz. vol. 166; p. 492.
Muff. M. Michtom. No. 41,179; Feb. 14; Gaz. vol. 163; p. 464.
Muffler. S. Meyers. No. 41,905; Nov. 7; Gaz. vol. 172; p. 235.
Musical instruments, Body for stringed. A. Shutt. No. 41,792; Sept. 19; Gaz. vol. 170; p. 689.
Neckscarf or muffler. S. S. Sampliner. No. 41,088; Jan. 10; Gaz. vol. 162; p. 525.
Padlock. C. L. Ledin. No. 41,328; Apr. 25; Gaz. vol. 165; p. 952.
Paper-cutter. E. F. Caldwell. No. 41,423; June 6; Gaz. vol. 167; p. 216.
Paper, Lithographed. R. Warrender. No. 41,224; Mar. 7; Gaz. vol. 164; p. 232.
Paper, Ornamented. S. M. Close. No. 41,099; Jan. 17; Gaz. vol. 162; p. 763.
Paper, Shelf-. T. F. Callaghan. No. 41,642; Aug. 1; Gaz. vol. 169; p. 182.
Paper wafer. R. H. Durbin. No. 41,932; Nov. 21; Gaz. vol. 172; p. 799.
Paper, Wall-. C. Becker. No. 41,502; June 20; Gaz. vol. 167; p. 740.
Paper, Wall-. H. Wearns. No. 41,812; Sept. 26; Gaz. vol. 170; p. 913.
Paper-weight and timepiece. L. L. Doolittle. No. 41,554; July 11; Gaz. vol. 168; p. 497.
Pedal. M. Tibbetts. No. 41,775; Sept. 12; Gaz. vol. 170; p. 459.
Pencil-clip. A. Fornander. No. 41,263; Mar. 28; Gaz. vol. 164; p. 954.
Pencil, Lead-. S. Kraus. No. 41,206; Feb. 28; Gaz. vol. 163; p. 958.
Penholder. W. M. Grate. No. 41,375; May 16; Gaz. vol. 166; p. 733.
Phonograph-horn support. P. Catucci. No. 41,499; June 20; Gaz. vol. 167; p. 740.
Photographic foregrounds, Scene for. W. Pinch. No. 41,844; Oct. 17; Gaz. vol. 171; p. 722.
Piano-bench, Duet. B. F. Mooney. No. 41,901; Nov. 7; Gaz. vol. 172; p. 234.
Piano-case. O. S. Hummel. No. 41,222; Mar. 7; Gaz. vol. 164; p. 231.
Piano-case. N. J. Nelson. Nos. 41,614–15; July 25; Gaz. vol. 168; p. 1009.
Piano case, Player-. F. J. Whitelaw. No. 41,826; Oct. 3; Gaz. vol. 171; p. 201.
Piano-pedal. C. M. Tremaine. No. 42,069; Dec. 26; Gaz. vol. 173; p. 1059.
Picture-frame. C. D. Golden. No. 41,430; June 6; Gaz. vol. 167; p. 217.
Pile fabric. F. H. Walker. No. 41,246; Mar. 14; Gaz. vol. 164; p. 487.
Pillow-top. W. M. Butler. No. 41,999; Dec. 19; Gaz. vol. 173; p. 832.
Pin-tray and pen-rack. D. C. Cahalane. No. 41,234; Mar. 14; Gaz. vol. 164; p. 485.
Pinwheel. R. Pruchnitzky. No. 41,517; June 27; Gaz. vol. 167; p. 961.
Plate. W. L. Smith. No. 41,986; Dec. 19; Gaz. vol. 173; p. 830.
Plate or dish. A. M. Sessions. No. 41,427; June 6; Gaz. vol. 167; p. 217.
Plate or similar article. M. W. Heinrichs. No. 41,090; Jan. 17; Gaz. vol. 162; p. 761.
Plate or similar article. J. J. Miller. Nos. 41,556–7; July 11; Gaz. vol. 168; p. 498.
Plate or similar article. J. W. Wadsworth. Nos. 41,655–6; Aug. 8; Gaz. vol. 169; pp. 427–8.
Plates, trays, or similar articles, Border-section for. G. B. Lewis. No. 41,892; Nov. 7; Gaz. vol. 172; p. 233.
Post-card. C. Stallings. Nos. 41,187–8; Feb. 21; Gaz. vol. 163; p. 707.
Propeller. S. Heath. No. 41,244; Mar. 14; Gaz. vol. 164; p. 487.
Pump or similar article, Power-. S. S. Smith. No. 41,271; Mar. 28; Gaz. vol. 164; p. 955.
Pump, Self-measuring. H. J. Grosvenor. No. 41,839; Oct. 10; Gaz. vol. 171; p. 460.
Purse, Club-. V. L. McQuistion. No. 41,067; Jan. 3; Gaz. vol. 162; p. 252.
Rack, Tool or implement. F. M. Mosher. No. 41,993; Dec. 19; Gaz. vol. 173; p. 831.
Radiator. W. C. McKeown. No. 41,811; Sept. 26; Gaz. vol. 170; p. 913.
Radiator-shields, Side or bracket for. J. W. Johnson. No. 41,608; July 25; Gaz. vol. 168; p. 1008.
Railing-block. D. B. Luten. No. 41,708; Aug. 22; Gaz. vol. 169; p. 924.
Range, Gas-. J. A. Alexander and F. K. Berry. Nos. 41,619–20; July 25; Gaz. vol. 168; p. 1010.
Razor-handle. E. Krusius. No. 41,342; May 2; Gaz. vol. 166; p. 229.
Reflector and bracket therefor. W. L. Keys. No. 41,989; Dec. 19; Gaz. vol. 173; p. 830.

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Reflector, Ceiling-. N. Macbeth. No. 41,377; May 16; Gaz. vol. 166; p. 733.
Refrigerator. H. Silver. No. 41,334; Apr. 25; Gaz. vol. 165; p. 953.
Rein-terret. O. B. Read. No. 41,746; Sept. 5; Gaz. vol. 170; p. 217.
Ribbon-clamp. F. Hendschel. No. 41,359; May 9; Gaz. vol. 166; p. 491.
Ring or similar article. C. Fischer. No. 41,654; Aug. 8; Gaz. vol. 169; p. 427.
Rings or similar articles, Stone-setting for finger-. E. C. Abel. No. 41,963; Dec. 12; Gaz. vol. 173; p. 560.
Rosette. O. E. Maul. No. 41,156; Feb. 7; Gaz. vol. 163; p. 214.
Rug. A. Petzold. Nos. 41,072–80; Jan. 3; Gaz. vol. 162; pp. 252–4.
Rug. L. W. Jones. No. 41,106; Jan. 17; Gaz. vol. 162; p. 764.
Rug. W. F. Brown. Nos. 41,107–8; Jan. 17; Gaz. vol. 162; pp. 764–5.
Rug. J. H. Witzel. Nos. 41,109–10; Jan. 17; Gaz. vol. 162; p. 765.
Rug. J. McKiernan. No. 41,111; Jan. 17; Gaz. vol. 162; p. 765.
Rug. E. G. Sauer. Nos. 41,112–14; Jan. 17; Gaz. vol. 162; p. 766.
Rug. J. Merry. Nos. 41,115–17; Jan. 17; Gaz. vol. 162; pp. 766–7.
Rug. W. A. Spring. Nos. 41,118–21; Jan. 17; Gaz. vol. 162; pp. 767–8.
Rug. W. F. Brown. Nos. 41,128–30; Jan. 24; Gaz. vol. 162; p. 979.
Rug. W. A. Elliot. Nos. 41,131–4; Jan. 24; Gaz. vol. 162; p. 980.
Rug. L. W. Jones. No. 41,135; Jan. 24; Gaz. vol. 162; p. 981.
Rug. M. R. Loudon. No. 41,136; Jan. 24; Gaz. vol. 162; p. 981.
Rug. J. Merry. No. 41,137; Jan. 24; Gaz. vol. 162; p. 981.
Rug. E. G. Sauer. Nos. 41,138–42; Jan. 24; Gaz. vol. 162; pp. 981–2.
Rug. F. Schindler. No. 41,143; Jan. 24; Gaz. vol. 162; p. 983.
Rug. J. Spring. Nos. 41,144–5; Jan. 24; Gaz. vol. 162; p. 983.
Rug. E. W. Trik. No. 41,146; Jan. 24; Gaz. vol. 162; p. 983.
Rug. J. H. Witzel. Nos. 41,147–8; Jan. 24; Gaz. vol. 162; p. 984.
Rug. W. A. Elliot. Nos. 41,157–8; Feb. 7; Gaz. vol. 163; p. 214.
Rug. M. R. Loudon. No. 41,159; Feb. 7; Gaz. vol. 163; p. 214.
Rug. J. Merry. Nos. 41,160–1; Feb. 7; Gaz. vol. 163; p. 215.
Rug. E. G. Sauer. Nos. 41,162–4; Feb. 7; Gaz. vol. 163; pp. 215–16.
Rug. F. Schindler. Nos. 41,165–6; Feb. 7; Gaz. vol. 163; p. 216.
Rug. J. Spring. Nos. 41,167–71; Feb. 7; Gaz. vol. 163; pp. 216–17.
Rug. E. W. Trik. Nos. 41,172–3; Feb. 7; Gaz. vol. 163; p. 218.
Rug. W. A. Elliot. Nos. 41,197–9; Feb. 21; Gaz. vol. 163; p. 709.
Rug. E. G. Sauer. Nos. 41,200–1; Feb. 21; Gaz. vol. 163; pp. 709–10.
Rug. W. G. Reith. No. 41,202; Feb. 21; Gaz. vol. 163; p. 710.
Rug. H. A. Miller. No. 41,210; Feb. 28; Gaz. vol. 163; p. 959.
Rug. E. G. Sauer. Nos. 41,225–6; Mar. 7; Gaz. vol. 164; p. 232.
Rug. J. Spring. Nos. 41,227–8; Mar. 7; Gaz. vol. 164; p. 233.
Rug. E. W. Trik. No. 41,229; Mar. 7; Gaz. vol. 164; p. 233.
Rug. J. H. Witzel. No. 41,230; Mar. 7; Gaz. vol. 164; p. 233.
Rug. W. A. Elliot. No. 41,247; Mar. 14; Gaz. vol. 164; p. 487.
Rug. J. Spring. No. 41,248; Mar. 14; Gaz. vol. 164; p. 488.
Rug. E. W. Trik. No. 41,249; Mar. 14; Gaz. vol. 164; p. 488.
Rug. J. Merry. No. 41,312; Apr. 11; Gaz. vol. 165; p. 456.
Rug. J. Merry. No. 41,314; Apr. 11; Gaz. vol. 165; p. 457.
Rug. E. G. Sauer. Nos. 41,315–16; Apr. 11; Gaz. vol. 165; p. 457.
Rug. W. Spring. No. 41,317; Apr. 11; Gaz. vol. 165; p. 457.
Rug. W. F. Brown. No. 41,403; May 23; Gaz. vol. 166; p. 966.
Rug. L. W. Jones. No. 41,404; May 23; Gaz. vol. 166; p. 967.
Rug. J. Merry. No. 41,405; May 23; Gaz. vol. 166; p. 967.
Rug. J. B. Moffat. No. 41,406; May 23; Gaz. vol. 166; p. 967.
Rug. A. Petzold. Nos. 41,407–10; May 23; Gaz. vol. 166; pp. 967–8.
Rug. C. L. Wilson. No. 41,411; May 23; Gaz. vol. 166; p. 968.
Rug. W. A. Elliot. No. 41,415; May 30; Gaz. vol. 166; p. 1263.
Rug. J. Spring. Nos. 41,416–17; May 30; Gaz. vol. 166; p. 1263.
Rug. W. A. Spring. Nos. 41,418–19; May 30; Gaz. vol. 166; p. 1264.
Rug. F. Schindler. No. 41,420; May 30; Gaz. vol. 166; p. 1264.
Rug. J. H. Witzel. No. 41,421; May 30; Gaz. vol. 166; p. 1264.
Rug. W. F. Brown. No. 41,447; June 6; Gaz. vol. 167; p. 220.
Rug. W. G. Reith. Nos. 41,448–9; June 6; Gaz. vol. 167; p. 221.
Rug. F. Schindler. Nos. 41,450–1; June 6; Gaz. vol. 167; p. 221.
Rug. W. A. Spring. Nos. 41,452–5; June 6; Gaz. vol. 167; pp. 221–2.
Rug. J. Spring. Nos. 41,456–7; June 6; Gaz. vol. 167; pp. 222–3.
Rug. W. A. Elliot. No. 41,477; June 13; Gaz. vol. 167; p. 496.
Rug. J. Merry. No. 41,478; June 13; Gaz. vol. 167; p. 496.
Rug. W. A. Pardoe. No. 41,479; June 13; Gaz. vol. 167; p. 496.
Rug. A. Petzold. No. 41,480; June 13; Gaz. vol. 167; p. 496.
Rug. W. G. Reith. No. 41,481; June 13; Gaz. vol. 167; p. 497.
Rug. W. G. Reith. No. 41,510; June 20; Gaz. vol. 167; p. 742.
Rug. J. Merry. No. 41,511; June 20; Gaz. vol. 167; p. 742.
Rug. J. H. Bromley. Nos. 41,527–8; June 27; Gaz. vol. 167; pp. 962–3.
Rug. E. G. Sauer. Nos. 41,529–30; June 27; Gaz. vol. 167; p. 963.
Rug. J. Spring. No. 41,531; June 27; Gaz. vol. 167; p. 963.
Rug. A. Petzold. No. 41,550; July 4; Gaz. vol. 168; p. 231.
Rug. A. D. Moniot. No. 41,579; July 11; Gaz. vol. 168; p. 502.
Rug. A. Petzold. Nos. 41,580–3; July 11; Gaz. vol. 168; pp. 502–3.
Rug. J. Spring. No. 41,584; July 11; Gaz. vol. 168; p. 503.
Rug. E. W. Trik. No. 41,585; July 11; Gaz. vol. 168; p. 503.
Rug. A. Petzold. Nos. 41,600–3; July 18; Gaz. vol. 168; pp. 770–1.
Rug. A. Petzold. Nos. 41,626–8; July 25; Gaz. vol. 168; p. 1012.
Rug. E. G. Sauer. Nos. 41,629–30; July 25; Gaz. vol. 168; p. 1012.
Rug. J. Spring. No. 41,631; July 25; Gaz. vol. 168; p. 1013.
Rug. E. W. Trik. No. 41,632; July 25; Gaz. vol. 168; p. 1013.
Rug. F. A. Haas. No. 41,662; Aug. 8; Gaz. vol. 169; p. 429.
Rug. A. Petzold. Nos. 41,663–5; Aug. 8; Gaz. vol. 169; p. 429.
Rug. E. G. Sauer. No. 41,666; Aug. 8; Gaz. vol. 169; p. 429.
Rug. J. Spring. Nos. 41,667–8; Aug. 8; Gaz. vol. 169; p. 430.
Rug. W. F. Brown. No. 41,755; Sept. 5; Gaz. vol. 170; p. 219.
Rug. R. F. Riddle. No. 41,756; Sept. 5; Gaz. vol. 170; p. 219.
Rug. E. G. Sauer. No. 41,757; Sept. 5; Gaz. vol. 170; p. 219.
Rug. W. A. Spring. Nos. 41,758–9; Sept. 5; Gaz. vol. 170; pp. 219–20.
Rug. E. W. Trik. No. 41,760; Sept. 5; Gaz. vol. 170; p. 220.
Rug. A. Petzold. No. 41,801; Sept. 19; Gaz. vol. 170; p. 691.
Rug. A. Petzold. Nos. 41,936–43; Nov. 21; Gaz. vol. 172; pp. 800–1.
Rug. A. Petzold. Nos. 41,959–61; Dec. 5; Gaz. vol. 173; p. 267.
Rug. J. Merry. Nos. 42,013–14; Dec. 19; Gaz. vol. 173; p. 835.
Rug. J. B. Moffat. No. 42,015; Dec. 19; Gaz. vol. 173; p. 835.
Rug. W. A. Pardoe. No. 42,016; Dec. 19; Gaz. vol. 173; p. 835.
Rug. A. Petzold. Nos. 42,017–18; Dec. 19; Gaz. vol. 173; pp. 835–6.
Rug. W. G. Reith. No. 42,019; Dec. 19; Gaz. vol. 173; p. 836.
Rug. R. F. Riddell. No. 42,020; Dec. 19; Gaz. vol. 173; p. 836.

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Rug. F. Schindler. Nos. 42,026–7; Dec. 19; Gaz. vol. 173; pp. 837–8.
Rug. J. Spring. No. 42,028; Dec. 19; Gaz. vol. 173; p. 838.
Rug. W. A. Spring. Nos. 42,029–30; Dec. 19; Gaz. vol. 173; p. 838.
Rug. E. W. Trik. No. 42,031; Dec. 19; Gaz. vol. 173; p. 838.
Rug, Woven. W. T. Smith. No. 41,868; Oct. 24; Gaz. vol. 171; p. 962.
Salt-shaker. U. Fischer and J. Huesler. No. 41,924; Nov. 14; Gaz. vol. 172; p. 524.
Scale-base. W. F. Stimpson. No. 41,350; May 2; Gaz. vol. 166; p. 230.
Scale-frame. M. Ruckes. No. 41,304; Apr. 11; Gaz. vol. 165; p. 455.
Scarf-pin or similar article. M. Vandewart. No. 41,850; Oct. 24; Gaz. vol. 171; p. 958.
Scraper, Foot-. H. M. Hart. No. 41,843; Oct. 10; Gaz. vol. 171; p. 461.
Screw-driver. E. S. Roberts. No. 41,896; Nov. 7; Gaz. vol. 172; p. 234.
Separator casing, Centrifugal-. C. K. Salisbury. No. 41,383; May 16; Gaz. vol. 166; p. 734.
Sewing-machine head. O. D. Kies. No. 41,288; Apr. 4; Gaz. vol. 165; p. 228.
Shade. H. McAfee. No. 41,082; Jan. 10; Gaz. vol. 162; p. 524.
Shade. R. E. Ewing. No. 41,466; June 13; Gaz. vol. 167; p. 494.
Shade and curtain holder or similar article. A. Selle. No. 41,435; June 6; Gaz. vol. 167; p. 218.
Shade-holder or similar article. A. Selle. No. 41,988; Dec. 19; Gaz. vol. 173; p. 830.
Shade, reflector, or similar article. O. A. Mygatt. No. 41,217; Mar. 7; Gaz. vol. 164; p. 231.
Shade, reflector, or similar article. O. A. Mygatt. Nos. 41,241–3; Mar. 14; Gaz. vol. 164; pp. 486–7.
Shoe. J. H. Waite. No. 41,209; Feb. 28; Gaz. vol. 163; p. 959.
Shoe horn and buttoner, Combined. C. J. Carlson. No. 41,298; Apr. 11; Gaz. vol. 165; p. 453.
Shoes, Quarter for. F. Nuzzo. No. 41,951; Nov. 28; Gaz. vol. 172; p. 1076.
Show-case. F. M. Williams, Jr. No. 42,072; Dec. 26; Gaz. vol. 173; p. 1060.
Sign. J. P. Shearer. No. 41,309; Apr. 11; Gaz. vol. 165; p. 455.
Signal, Warning-. E. Aufiero. No. 41,747; Sept. 5; Gaz. vol. 170; p. 217.
Signals, Casing and bracket for diaphragm-actuating. E. Aufiero. No. 41,791; Sept. 19; Gaz. vol. 170; p. 688.
Sink, Slop-. P. J. Madden. No. 41,441; June 6; Gaz. vol. 167; p. 219.
Siphon-head. C. De Lukacsevics. No. 41,432; June 6; Gaz. vol. 167; p. 218.
Slate, match-holder, and file, Combination. E. A. Stippich. No. 42,068; Dec. 26; Gaz. vol. 173; p. 1059.
Smoker-stand. J. J. Alvord and F. Karsitz. No. 41,537; July 4; Gaz. vol. 168; p. 228.
Smoking set. C. Nelson. Nos. 41,769–70; Sept. 12; Gaz. vol. 170; p. 457.
Smoothing-iron. M. Meyer. No. 41,974; Dec. 12; Gaz. vol. 173; p. 562.
Soap-powder-dispensing apparatus, Casing for. G. B. Stack. No. 41,789; Sept. 19; Gaz. vol. 170; p. 688.
Soda-dispensing fountain. D. E. J. Noonan. No. 41,155; Feb. 7; Gaz. vol. 163; p. 213.
Soda-fountain. F. H. Lippincott. No. 41,335; Apr. 25; Gaz. vol. 165; p. 953.
Spice-box. J. Frank. No. 41,558; July 11; Gaz. vol. 168; p. 498.
Spool-holder. G. A. Mowrey. No. 41,860; Oct. 24; Gaz. vol. 171; p. 960.
Spoon. S. H. Campbell. No. 41,588; July 18; Gaz. vol. 168; p. 768.
Spoon, fork, or similar article. H. Hillbom. No. 41,064; Jan. 3; Gaz. vol. 162; p. 251.
Spoon, fork, or similar article. H. L. Wallace. No. 41,065; Jan. 3; Gaz. vol. 162; p. 251.
Spoon, fork, or similar article. J. R. Dean. No. 41,066; Jan. 3; Gaz. vol. 162; p. 251.
Spoon, fork, or similar article. H. Hillbom. No. 41,262; Mar. 28; Gaz. vol. 164; p. 953.
Spoon, fork, or similar article. M. B. Leete. No. 41,297; Apr. 11; Gaz. vol. 165; p. 453.
Spoon, fork, or similar article. A. G. Kintz. No. 41,426; June 6; Gaz. vol. 167; p. 217.
Spoon, fork, or similar article. C. M. Prior. No. 41,462; June 13; Gaz. vol. 167; p. 493.
Spoon, fork, or similar article. G. L. Crowell, Jr. No. 41,740; Sept. 5; Gaz. vol. 170; p. 215.
Spoon, fork, or similar article. W. B. H. Dowse. No. 41,741; Sept. 5; Gaz. vol. 170; p. 216.
Spoon, fork, or similar article. F. E. Pretat. No. 41,803; Sept. 26; Gaz. vol. 170; p. 911.
Spoon, fork, or similar article. G. Strohhaker. No. 41,804; Sept. 26; Gaz. vol. 170; p. 912.
Spoon, fork, or similar article. F. A. Whelan. No. 41,815; Oct. 3; Gaz. vol. 171; p. 199.
Spoon, fork, or similar article. G. Strohhaker. No. 41,851; Oct. 24; Gaz. vol. 171; p. 959.
Spoon, Fruit-. J. G. Ridout. No. 41,832; Oct. 10; Gaz. vol. 171; p. 459.
Spoon or fork handle. A. Scholz. No. 41,695; Aug. 22; Gaz. vol. 169; p. 922.
Spoons, forks, and similar articles, Handle for. T. B. Lashar. No. 41,845; Oct. 17; Gaz. vol. 171; p. 722.
Spoons, forks, or similar articles, Handle for. G. E. Nerney. No. 41,089; Jan. 17; Gaz. vol. 162; p. 761.
Spoons, forks, or similar articles, Handle for. G. E. Nerney. No. 41,203; Feb. 28; Gaz. vol. 163; p. 958.
Spoons, forks, or similar articles, Handle for. W. C. Codman. No. 41,213; Mar. 7; Gaz. vol. 164; p. 230.
Spoons, forks, or similar articles, Handle for. W. C. Codman. No. 41,235; Mar. 14; Gaz. vol. 164; p. 485.
Spoons, forks, or similar articles, Handle for. W. C. Codman. Nos. 41,424–5; June 6; Gaz. vol. 167; p. 216.
Spoons, forks, or similar articles, Handle for. G. N. Allen. No. 41,461; June 13; Gaz. vol. 167; p. 493.
Spoons, forks, or similar articles, Handle for. P. Stewart. Nos. 41,487–8; June 20; Gaz. vol. 167; p. 738.
Spoons, forks, or similar articles, Handle for. W. C. Codman. No. 41,516; June 27; Gaz. vol. 167; p. 961.
Spoons, forks, or similar articles, Handle for. G. N. Allen. No. 41,633; Aug. 1; Gaz. vol. 169; p. 180.
Spoons, forks, or similar articles, Handle for. F. Habensack. No. 41,694; Aug. 22; Gaz. vol. 169; p. 922.
Spoons, forks, or similar articles, Handle for. G. N. Allen. No. 41,738; Sept. 5; Gaz. vol. 170; p. 215.
Spoons, forks, or similar articles, Handle for. G. E. Nerney. No. 41,739; Sept. 5; Gaz. vol. 170; p. 215.
Spoons, forks, or similar articles, Handle for. G. N. Allen. No. 41,783; Sept. 19; Gaz. vol. 170; p. 687.
Spoons, forks, or similar articles, Handle for. T. Heath. No. 41,805; Sept. 26; Gaz. vol. 170; p. 912.
Spoons, forks, or similar articles, Handle for. G. N. Allen. No. 41,831; Oct. 10; Gaz. vol. 171; p. 459.
Spoons, forks, or similar articles, Handle for. G. P. Ittig. No. 41,966; Dec. 12; Gaz. vol. 173; p. 560.
Spoons, forks, or similar articles, Handle of. F. Habensack. No. 41,175; Feb. 14; Gaz. vol. 163; p. 463.
Spur-body. J. W. Keyston, Jr. No. 41,490; June 20; Gaz. vol. 167; p. 738.
Stamp, Trading-. H. Siegel. No. 41,323; Apr. 25; Gaz. vol. 165; p. 951.
Stand. J. E. Gloekler. No. 41,431; June 6; Gaz. vol. 167; p. 217.
Stand. J. H. Astruck. No. 41,536; July 4; Gaz. vol. 168; p. 228.
Stand. S. Sternau. No. 41,687; Aug. 15; Gaz. vol. 169; p. 681.
Statuette. J. D. Murray. No. 41,293; Apr. 11; Gaz. vol. 165; p. 453.
Statuette. J. Walker. No. 41,361; May 9; Gaz. vol. 166; p. 492.
Stencil. H. S. Gosnell. No. 41,933; Nov. 21; Gaz. vol. 172; p. 799.
Stove. E. C. Cole. No. 41,086; Jan. 10; Gaz. vol. 162; p. 525.
Stove. J. Becvar. No. 41,373; May 9; Gaz. vol. 166; p. 494.
Stove. C. M. Genthner. No. 41,470; June 13; Gaz. vol. 167; p. 494.
Stove. M. L. Packer. No. 41,599; July 18; Gaz. vol. 168; p. 770.
Stove. J. F. Heister and J. Davids. Nos. 41,749–50; Sept. 5; Gaz. vol. 170; p. 217.
Stove. J. F. Heister and J. Davids. No. 41,800; Sept. 19; Gaz. vol. 170; p. 691.
Stove-base. B. Will. Nos. 41,443–4; June 6; Gaz. vol. 167; p. 220.
Stove-body. B. Will. No. 41,442; June 6; Gaz. vol. 167; p. 220.
Stove, Cooking-. E. E. O'Neill. No. 41,127; Jan. 24; Gaz. vol. 162; p. 979.
Stove-door. J. A. Alexander and F. K. Berry. No. 41,618; July 25; Gaz. vol. 168; p. 1010.
Stove, Electric. C. P. Madsen. No. 41,372; May 9; Gaz. vol. 166; p. 494.
Stove-ovens, warming-compartments, or like articles, Door-frame and doors for. W. N. Goldhamer. No. 41,270; Mar. 28; Gaz. vol. 164; p. 955.
Stove-shelf. B. Will. No. 41,445; June 6; Gaz. vol. 167; p. 220.
Stoves or similar articles, Foot for. J. T. Reznor. No. 41,658; Aug. 8; Gaz. vol. 169; p. 428.
Suit-cases or similar articles, Corner-shield for. M. Essegian. No. 41,607; July 25; Gaz. vol. 168; p. 1007.
Sweater. F. Mayer. No. 41,292; Apr. 4; Gaz. vol. 165; p. 228.
Swimming-bag. A. P. Rindskopf. No. 41,797; Sept. 19; Gaz. vol. 170; p. 690.
Switch handle, Electric-. F. E. Seeley. No. 41,494; June 20; Gaz. vol. 167; p. 739.
Switch handle, Electric-. R. Huff. No. 41,921; Nov. 7; Gaz. vol. 172; p. 238.
Switch handle, Knife-. T. H. Brady. No. 41,731; Aug. 29; Gaz. vol. 169; p. 1160.

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Syringe or similar article. P. G. MacGregor. No. 41,434; June 6; Gaz. vol. 167; p. 218.
Table. H. C. Strobel and L. Killian. No. 41,290; Apr. 4; Gaz. vol. 165; p. 228.
Table. H. C. Strobel and L. Killian. No. 41,500; June 20; Gaz. vol. 167; p. 740.
Table and refrigerator. E. B. Jewett. No. 41,221; Mar. 7; Gaz. vol. 164; p. 231.
Tack. T. M. Riggs. No. 41,838; Oct. 10; Gaz. vol. 171; p. 460.
Tail-light, sign-plate, and holder, Combined. E. E. Poole. No. 41,660; Aug. 8; Gaz. vol. 169; p. 428.
Talking-machine cabinet. J. C. English. No. 41,776; Sept. 12; Gaz. vol. 170; p. 459.
Talking-machine cabinet. J. C. English. No. 41,824; Oct. 3; Gaz. vol. 171; p. 200.
Talking-machine cabinet. J. C. English. No. 41,836; Oct. 10; Gaz. vol. 171; p. 460.
Talking-machine cabinet. H. A. Yerkes. No. 41,902; Nov. 7; Gaz. vol. 172; p. 235.
Tea-kettle. B. P. Wagner. No. 41,968; Dec. 12; Gaz. vol. 173; p. 561.
Teapot, coffee-pot, or similar article. M. Weintraub. No. 41,[illegible]; Sept. 12; Gaz. vol. 170; p. 457.
Teapot or similar article. G. E. Ball. No. 41,985; Dec. 19; Gaz. vol. 173; p. 829.
Telephone desk-stand. W. V. Dean. No. 41,616; July 25; Gaz. vol. 168; p. 1010.
Telephone desk-stand. J. G. Blessing. No. 41,794; Sept. 19; Gaz. vol. 170; p. 689.
Telephone-standard. A. Gallatin. No. 41,685; Aug. 15; Gaz. vol. 169; p. 680.
Thermometer-casing. T. H. Wurmb and R. Baumann. No. 41,534; July 4; Gaz. vol. 168; p. 228.
Thermometer casing, Self-recording-. T. H. Wurmb and R. Baumann. No. 41,592; July 18; Gaz. vol. 168; p. 769.
Tile, Roofing-. F. M. Vogan. No. 41,353; May 2; Gaz. vol. 166; p. 230.
Tile, Roofing-. F. M. Vogan. No. 41,709; Aug. 22; Gaz. vol. 169; p. 924.
Tile, Roofing-. F. M. Vogan. Nos. 41,798–9; Sept. 19; Gaz. vol. 170; p. 690.
Tile, Roofing-. F. M. Vogan. Nos. 41,828–30; Oct. 3; Gaz. vol. 171; pp. 201–2.
Tile, Roofing-. F. M. Vogan. No. 42,071; Dec. 26; Gaz. vol. 173; p. 1060.
Tire, Rubber vehicle-. A. N. Hood. Nos. 41,496–7; June 20; Gaz. vol. 167; pp. 739–40.
Tire-tread. W. T. Dorgen. No. 41,994; Dec. 19; Gaz. vol. 173; p. 831.
Tire, Vehicle-. M. Tibbetts. No. 41,400; May 23; Gaz. vol. 166; p. 966.
Tobacco-box, Sheet-metal pocket. I. J. Marcuse. No. 41,984; Dec. 19; Gaz. vol. 173; p. 829.
Tobacco-pipe. A. Johnson. No. 41,816; Oct. 3; Gaz. vol. 171; p. 199.
Tobacco-pipe mouthpiece. L. Demuth. No. 41,834; Oct. 10; Gaz. vol. 171; p. 459.
Tombstone. J. F. Kunsman. No. 41,950; Nov. 28; Gaz. vol. 172; p. 1076.
Tool member. G. H. Powell. No. 41,385; May 16; Gaz. vol. 166; p. 735.
Towel-rack. L. Strassburger, C. Nelson, and W. G. Barker. No. 41,567; July 11; Gaz. vol. 168; p. 500.
Towel-rack. C. Nelson. No. 41,956; Dec. 5; Gaz. vol. 173; p. 266.
Toy. L. Levy. No. 41,190; Feb. 21; Gaz. vol. 163; p. 707.
Toy animal. L. Rees. Nos. 41,927–8; Nov. 14; Gaz. vol. 172; p. 525.
Toy bank. C. A Bailey. No. 41,947; Nov. 28; Gaz. vol. 172; p. 1075.
Toy bank or similar article. L. S. Bixler. No. 41,697; Aug. 22; Gaz. vol. 169; p. 922.
Toy bank or similar article. L. S. Bixler. No. 41,948; Nov. 28; Gaz. vol. 172; p. 1076.
Toy banks, Grating-door for. C. A. Bailey. No. 41,326; Apr. 25; Gaz. vol. 165; p. 952.
Toy figure or like article. C. A. Hopkins. No. 41,212; Mar. 7; Gaz. vol. 164; p. 230.
Toy money-box. C. A. Bailey. No. 41,696; Aug. 22; Gaz. vol. 169; p. 922.
Transfer devices, Frame for change-. B. M. Davis. No. 41,126; Jan. 24; Gaz. vol. 162; p. 978.
Tray. J. M. Flitcraft. No. 41,394; May 23; Gaz. vol. 166; p. 965.
Trimming, Fancy. C. S. King. Nos. 41,711–14; Aug. 22; Gaz. vol. 169; p. 925.
Trough, Animal-. J. Q. Clarke. No. 41,352; May 2; Gaz. vol. 166; p. 230.
Tumbler-holder. G. H. Pratt. No. 41,296; Apr. 11; Gaz. vol. 165; p. 453.
Tumbler-holder. C. Nelson. Nos. 41,338–9; May 2; Gaz. vol. 166; p. 228.
Tumbler-holder and soap-dish, Combined. C. Nelson. No. 41,340; May 2; Gaz. vol. 166; p. 228.
Type, Font of. S. M. Weatherly. No. 41,245; Mar. 14; Gaz. vol. 164; p. 487.
Type, Font of. W. A. Schraubstadter. No. 41,336; Apr. 25; Gaz. vol. 165; p. 953.
Type, Font of printing-. S. D. Hartog. No. 41,357; May 2; Gaz. vol. 166; p. 231.
Urinal. O. C. G. Brettell and J. F. Bailey. No. 41,401; May 23; Gaz. vol. 166; p. 966.
Valve. C. Mason. No. 41,492; June 20; Gaz. vol. 167; p. 739.
Valve-body. W. L. Belknap. No. 41,636; Aug. 1; Gaz. vol. 169; p. 181.
Vase or similar article. C. Ziegler. Nos. 41,362–3; May 9; Gaz. vol. 166; p. 492.
Vehicle-body. F. F. Groff. No. 41,085; Jan. 10; Gaz. vol. 162; p. 525.
Vehicle-body. C. E. J. Lang and M. W. Gaffney. No. 41,257; Mar. 21; Gaz. vol. 164; p. 721.
Vehicle-body. E. A. Nelson. No. 41,291; Apr. 4; Gaz. vol. 165; p. 228.
Vehicle-body. C. E. J. Lang and M. W. Gaffney. No. 41,308; Apr. 11; Gaz. vol. 165; p. 455.
Vehicle-body. T. Huss. No. 41,355; May 2; Gaz. vol. 166; p. 231.
Vehicle-body. S. D. Waldon. Nos. 41,544–8; July 4; Gaz. vol. 168; pp. 230–1.
Vehicle-body. S. D. Waldon. No. 41,598; July 18; Gaz. vol. 168; p. 770.
Vehicle-body. J. C. Kaiser. No. 41,690; Aug. 15; Gaz. vol. 169; p. 681.
Vehicle body, Motor-. E. A. Nelson. No. 41,322; Apr. 18; Gaz. vol. 165; p. 709.
Vehicle body, Motor-. W. D. Allen. No. 41,949; Nov. 28; Gaz. vol. 172; p. 1076.
Vehicle coupé-body. P. Schaffhausen. No. 41,223; Mar. 7; Gaz. vol. 164; p. 232.
Vehicle number-plate support. E. M. Rosenbluth. Nos. 41,388–9; May 16; Gaz. vol. 166; p. 735.
Vehicle number-plate support. E. M. Rosenbluth. No. 41,899; Nov. 7; Gaz. vol. 172; p. 234.
Veil, Face-. A. G. Jennings. No. 41,903; Nov. 7; Gaz. vol. 172; p. 235.
Vending-machine casing. H. J. Conrad and W. F. Schmidt. No. 41,809; Sept. 26; Gaz. vol. 170; p. 912.
Ventilating-cowl. S. Ewart. No. 41,810; Sept. 26; Gaz. vol. 170; p. 913.
Vial, Perfume-. F. A. Buholzer. No. 41,299; Apr. 11; Gaz. vol. 165; p. 454.
Waist. I. Lefkowitz. No. 41,778; Sept. 12; Gaz. vol. 170; p. 459.
Wall or book covering. J. N. Wiggin. No. 41,865; Oct. 24; Gaz. vol. 171; p. 961.
Wall-plate. L. W. Andersen. No. 41,386; May 16; Gaz. vol. 166; p. 735.
Wall-rack. G. W. Hanna. No. 41,192; Feb. 21; Gaz. vol. 163; p. 708.
Watch-chain. A. S. Filson. No. 41,737; Sept. 5; Gaz. vol. 170; p. 215.
Watch-charm or similar article. M. D. Brandes. No. 41,944; Nov. 28; Gaz. vol. 172; p. 1075.
Watch-fob. S. Bienenzucht. No. 41,284; Apr. 4; Gaz. vol. 165; p. 227.
Watch-fob. E. Keil. No. 41,337; May 2; Gaz. vol. 166; p. 228.
Watch-fob or similar article. J. Mayer. No. 41,980; Dec. 19; Gaz. vol. 173; p. 829.
Watch-stem, Pendant. J. E. Johnson. Nos. 41,781–2; Sept. 19; Gaz. vol. 170; p. 686.
Water-closet bowl. A. D. Sanders and W. H. Lloyd. No. 41,333; Apr. 25; Gaz. vol. 165; p. 953.
Water-closet bowl. P. J. Madden. No. 41,440; June 6; Gaz. vol. 167; p. 219.
Water-closet bowl. B. O. Tilden. No. 41,793; Sept. 19; Gaz. vol. 170; p. 689.
Water-tank. R. E. Crane. No. 41,220; Mar. 7; Gaz. vol. 164; p. 231.
Welding-machine frame, Electric-. N. Macneale. No. 41,849; Oct. 17; Gaz. vol. 171; p. 723.
Welding-machine frame, Electric-. N. Macneale. No. 41,872; Oct. 31; Gaz. vol. 171; p. 1232.

ALPHABETICAL LIST OF TRADE-MARKS.

Abrasive articles. The Carborundum Company. No. 83,390; Sept. 12; Gaz. vol. 170; p. 477.
Abrasives, abrasive wheels, polishing and grinding grains, &c. Norton Company. No. 82,611; July 11; Gaz. vol. 168; p. 520.
Absorbent cotton and dental floss. Aseptic Products Company. No. 84,303; Nov. 28; Gaz. vol. 172; p. 1085.
Absorbent cotton, hot-water bottles, and fountain-syringes. Wm. B. Riker & Son Company. No. 80,805; Jan. 31; Gaz. vol. 162; p. 1180.
Adhesive paste. The "Gloy" Manufacturing Company. No. 82,596; July 11; Gaz. vol. 168; p. 520.
Advertising-lists. Gould Directory Company. No. 81,695; May 2; Gaz. vol. 166; p. 246.
Advertising-posters. Newark Sign Co. No. 83,002; Aug. 8; Gaz. vol. 169; p. 446.
Agricultural cable power-wagon. C. J. Eastman. No. 83,720; Oct. 10; Gaz. vol. 171; p. 477.
Alcohol, Rectified. Lanman & Kemp. Nos. 84,399–400; Dec. 12; Gaz. vol. 173; p. 579.
Alcoholic liquors, Certain. Levaggi Company. No. 83,416; Sept. 12; Gaz. vol. 170; p. 478.
Ale. Whitbread & Company. No. 81,420; Apr. 4; Gaz. vol. 165; p. 238.
Ale. Bartholomay Brewing Company. No. 82,557; July 11; Gaz. vol. 168; p. 519.
Ale and brown stout. Wm. A. Miles & Co. No. 82,346; June 20; Gaz. vol. 167; p. 759.
Ale and cola beverage, Ginger-. Everhart-Chiles Extract Company. No. 81,505; Apr. 18; Gaz. vol. 165; p. 725.
Ale and ginger-ale extract, Ginger-. J. Vernor. No. 83,107; Aug. 15; Gaz. vol. 169; p. 699.
Ale, beer, and porter. Consumers Brewing Company. No. 82,211; June 13; Gaz. vol. 167; p. 509.
Ale, Ginger-. Belfast Mineral Water Co. No. 81,320; Mar. 28; Gaz. vol. 164; p. 971.
Ale, Ginger-. Read Brothers. No. 81,824; May 9; Gaz. vol. 166; p. 508.
Ale, Ginger-. Grattan & Co. No. 83,642; Oct. 3; Gaz. vol. 171; p. 209.
Ale, porter, stout, and malt extract. S. Clague. No. 82,209; June 13; Gaz. vol. 167; p. 509.
Ale, root-beer, sarsaparilla, and lemon-soda, Ginger-. The Beaufont Lithia Water Co. No. 82,399; June 27; Gaz. vol. 167; p. 977.
Ale, root-beer, sarsaparilla, &c., Ginger-. Madison Bottling Works. No. 81,812; May 9; Gaz. vol. 166; p. 508.
Alloys of metal. The Meier Dental Manufacturing Company. No. 80,665; Jan. 17; Gaz. vol. 162; p. 780.
Almonds, Shelled. William Herron & Company. No. 83,250; Aug. 29; Gaz. vol. 169; p. 1180.
Almonds, walnuts, and pecans. William Herron & Company. No. 82,149; June 6; Gaz. vol. 167; p. 237.
Alpacas, velvets, cottons, &c. Kraus, Lambert & Co. No. 81,466; Apr. 11; Gaz. vol. 165; p. 470.
Alterative. B. V. Styles. No. 84,549; Dec 19; Gaz. vol. 173; p. 860.
Aluminum and aluminum alloys, iron and iron alloys. Société des Forces Motrices et Usines de l'Arve. No. 82,268; June 13; Gaz. vol. 167; p. 511.
Aluminum and aluminum alloys, iron and iron alloys. Société des Produits Electro-Chimiques et Métallurgiques des Pyrénées. No. 82,650; July 11; Gaz. vol. 168; p. 522.
Ammonia. The Zipp Manufacturing Company. No. 81,657; Apr. 25; Gaz. vol. 165; p. 969.
Amusement devices. J. W. Spear & Sons. No. 84,693; Dec. 26; Gaz. vol. 173; p. 1077.
Analgesic and antiseptic. Schieffelin & Co. No. 80,553; Jan. 3; Gaz. vol. 162; p. 266.
Anesthetic, Local. R. C. McKennan. No. 81,731; May 2; Gaz. vol. 166; p. 247.
Anesthetics. David B. Levy, Inc. No. 83,657; Oct. 3; Gaz. vol. 171; p. 210.
Anisette. Bosch & Co. No. 82,568; July 11; Gaz., vol. 168; p. 519.
Anisette. Bosch & Co. No. 83,318; Sept. 5; Gaz. vol. 170; p. 239.
Anticorrosive and antifouling compositions for ships' bottoms. Holzapfels Limited. No. 84,630; Dec. 26; Gaz. vol. 173; p. 1075.
Antifreezing compound. A. Mönsted Co. No. 83,759; Oct. 10; Gaz. vol. 171; p. 478.
Antimony. Cookson & Company. No. 83,325; Sept. 5; Gaz. vol. 170; p. 239.
Antinauseant and stomach-regulator. The Nesbiscera Co. No. 83,085; Aug. 15; Gaz. vol. 169; p. 698.
Antiphlogistic compound. Denver Mud Chemical Company. No. 83,718; Oct. 10; Gaz. vol. 171; p. 477.
Antirattlers. Metal Stamping Company. No. 80,666; Jan. 17; Gaz. vol. 162; p. 780.
Antiseptic. Samuel Cabot, Incorporated. No. 81,382; Apr. 4; Gaz. vol. 165; p. 237.
Antiseptic. Farbenfabriken of Elberfeld Company. No. 84,475; Dec. 19; Gaz. vol. 173; p. 858.
Antiseptic and disinfectant. Farbenfabriken of Elberfeld Company. No. 81,387; Apr. 4; Gaz. vol. 165; p. 237.
Antiseptic and disinfectant compounds. Triol Company. No. 84,146; Nov. 7; Gaz. vol. 172; p. 257.
Antiseptic and remedial preparation. Osteopathy Supply Company. No. 80,868; Feb. 7; Gaz. vol. 163; p. 228.
Antiseptic cones used in the treatment of all catarrhous affections. Konoid Chemical Company. No. 83,746; Oct. 10; Gaz. vol. 171; p. 478.
Antiseptic dressings. J. M. Sury. No. 82,842; July 25; Gaz. vol. 168; p. 1030.
Antiseptic healing-lotion. F. B. Dennie. No. 81,966; May 23; Gaz. vol. 166; p. 981.
Antiseptic liquid. The R. L. Company. No. 84,129; Nov. 7; Gaz. vol. 172; p. 256.
Antiseptic lotion. A. H. Scholle. No. 83,950; Oct. 24; Gaz. vol. 171; p. 981.
Antiseptic lotions. W. M. Decker. No. 82,481; Sept. 19; Gaz. vol. 170; p. 699.
Antiseptic powder, talcum powder, and remedy for colic. Black-Draught Stock Medicine Co. No. 83,890; Oct. 24; Gaz. vol. 171; p. 979.
Antiseptic solution. Hegner Pharmacal Company. No. 83,835; Oct. 17; Gaz. vol. 171; p. 740.
Antiseptic solution, tooth paste and powder. A. C. Clark & Company. No. 83,716; Oct. 10; Gaz. vol. 171; p. 477.
Antiseptic solutions. C. H. Franzoni. No. 82,782; July 25; Gaz. vol. 168; p. 1028.
Antiseptic solutions. F. I. Johnson. No. 82,797; July 25; Gaz. vol. 168; p. 1028.
Antiseptic surgical dressings. H. F. G. Clark. No. 80,830; Feb. 7; Gaz. vol. 163; p. 227.
Antiseptical product. Hoffmann-La Roche Chemical Works. No. 80,719; Jan. 24; Gaz. vol. 162; p. 995.
Apparatus and parts thereof, Certain. Harry Vissering & Company. No. 80,882; Feb. 7; Gaz. vol. 163; p. 228.
Apple-juice, Pure. B. I. Gorman. No. 82,075; May 30; Gaz. vol. 166; p. 1278.
Apples and peaches, Fresh. Shenandoah Valley Fruit Growers' Association. No. 84,537; Dec. 19; Gaz. vol. 173; p. 859.
Apples and pears, Fresh. A. C. Allen. No. 81,316; Mar. 28; Gaz. vol. 164; p. 971.
Apples and pears, Fresh. E. H. Craven. No. 84,467; Dec. 19; Gaz. vol. 173; p. 857.
Apples and potatoes, Fresh. C. H. & C. W. Kimball. No. 82,522; July 4; Gaz. vol. 168; p. 246.
Apples, Evaporated. Seneca Dried Fruit Company. Nos. 83,364–5; Sept. 5; Gaz. vol. 170; p. 240.
Apples, Evaporated. Seneca Dried Fruit Company. No. 83,860; Oct. 17; Gaz. vol. 171; p. 740.
Apples, Fresh. Yakima County Horticultural Union. No. 82,547; July 4; Gaz. vol. 168; p. 246.
Apples, Fresh. B. Pista. No. 83,509; Sept. 19; Gaz. vol. 170; p. 700.
Apples in boxes. The North Fork Fruit Growers Association. No. 80,731; Jan. 24; Gaz. vol. 162; p. 996.
Apron and bandage, Combination. The Walter F. Ware Company. No. 81,372; Mar. 28; Gaz. vol. 164; p. 972.
Aprons. S. A. Diamond & Bro. Co. No. 82,057; May 30; Gaz. vol. 166; p. 1277.
Aprons. Putnam-Morrill Company. No. 83,093; Aug. 15; Gaz. vol. 169; p. 698.
Aprons, dresses, petticoats, and corsets. Schott Home Made Garment Co. No. 84,342; Nov. 28; Gaz. vol. 172; p. 1086.
Arc-lights. Hunt & McCree. No. 83,158; Aug. 22; Gaz. vol. 169; p. 940.
Armpit-shields. J. J. Beyerle Mfg. Co. No. 84,586; Dec. 26; Gaz. vol. 173; p. 1073.
Asphalt compositions and paints. L. Sonneborn. No. 84,050; Oct. 31; Gaz. vol. 171; p. 1255.
Asphalt, Refined. The Paraffine Paint Company. No. 81,479; Apr. 11; Gaz. vol. 165; p. 470.
Asphalts and asphaltum products. Standard Waterproofing & Conduit Co. No. 81,920; May 16; Gaz. vol. 166; p. 749.
Athletic and sporting goods, Certain. A. J. Reach Company. No. 84,523; Dec. 19; Gaz. vol. 173; p. 859.
Automobile brake-linings. Magnesia Asbestos Supply Co. No. 81,728; May 2; Gaz. vol. 166; p. 247.
Automobile-linings, woolen, cotton, &c., piece goods. W. Wiese & Co. No. 82,190; June 6; Gaz. vol. 167; p. 238.
Automobile whistles, carbureters, and mufflers. R. D. Loose. No. 82,449; June 27; Gaz. vol. 167; p. 978.
Automobiles. Imperial Automobile Company. No. 82,442; June 27; Gaz. vol. 167; p. 978.

Alphabetical list of trade-marks—Continued.

Automobiles. Elkhart Motor Car Company. No. 80,586; Jan. 10; Gaz. vol. 162; p. 533.
Automobiles. Commercial Cars. No. 81,327; Mar. 28; Gaz. vol. 164; p. 971.
Automobiles. Societe Anonyme des Anciens Etablissements Panhard et Levassor. No. 82,370; June 20; Gaz. vol. 167; p. 759.
Automobiles. Black Manufacturing Company. No. 82,863; Aug. 1; Gaz. vol. 169; p. 199.
Automobiles. C. W. Kelsey Manufacturing Company. No. 83,261; Aug. 29; Gaz. vol. 169; p. 1180.
Automobiles and automobile-trucks. J. Luntz, Jr. No. 83,925; Oct. 24; Gaz. vol. 171; p. 980.
Automobiles, transmission and parts, &c. "Itala" Fabbrica di Automobili. No. 84,490; Dec. 19; Gaz. vol. 173; p. 858.
Bacon. T. M. Sinclair & Co. No. 83,014; Aug. 8; Gaz. vol. 169; p. 447.
Bacon, hams, lard, and brawn. Chas. & Thos. Harris & Co. No. 82,324; June 20; Gaz. vol. 167; p. 758.
Badge-buttons. National Anti-Tipping League. No. 81,816; May 9; Gaz. vol. 166; p. 508.
Bag-patches made of jute cloth. Young & Metzner. Nos. 83,797–8; Oct. 10; Gaz. vol. 171; p. 479.
Bags, Hand-. Mack & Potter. No. 83,588; Sept. 26; Gaz. vol. 170; p. 924.
Bags, wallets, purses, and pocket-books, Hand-. John Stember and Co. No. 80,812; Jan. 31; Gaz. vol. 162; p. 1180.
Bagging for baling cotton. American Manufacturing Company. No. 83,204; Aug. 29; Gaz. vol. 169; p. 1179.
Bagging for baling cotton, Jute. The American Manufacturing Company. No. 82,745; July 25; Gaz. vol. 168; p. 1027.
Bagging for covering cotton. Young & Metzner. No. 83,305; Aug. 29; Gaz. vol. 169; p. 1182.
Baking-powder. Stroud & Fletcher. No. 80,686; Jan. 17; Gaz. vol. 162; p. 780.
Baking-powder. Brock Grocery Company. No. 81,381; Apr. 4; Gaz. vol. 165; p. 237.
Baking-powder. Closset & Devers. No. 81,786; May 9; Gaz. vol. 166; p. 507.
Baking-powder. Layton Pure Food Company. No. 81,886; May 16; Gaz. vol. 166; p. 748.
Baking-powder. W. Blaurock. No. 82,043; May 30; Gaz. vol. 166; p. 1277.
Baking-powder. The Heekin Spice Company. No. 82,229; June 13; Gaz. vol. 167; p. 570.
Baking-powder. Norwine Coffee Company. No. 83,596; Sept. 26; Gaz. vol. 170; p. 924.
Baking-powder. Price Baking Powder Company. No. 83,689; Oct. 3; Gaz. vol. 171; p. 210.
Baking-powder and cream of tartar. Clarke Bros. No. 81,592; Apr. 25; Gaz. vol. 165; p. 967.
Baking-powder and laundry starch. S. Hamill Company. No. 81,213; Mar. 14; Gaz. vol. 164; p. 503.
Baking powder and soda. Ouerbacker Coffee Company. No. 82,633; July 11; Gaz. vol. 168; p. 521.
Balls, Golf-. A. G. Spalding & Bros. No. 84,692; Dec. 26; Gaz. vol. 173; p. 1077.
Banks, Savings-. The Automatic Recording Safe Company. No. 84,580; Dec. 26; Gaz. vol. 173; p. 1073.
Barrettes. Morris, Mann & Reilly. No. 82,459; June 27; Gaz. vol. 167; p. 979.
Bars, pigs, or ingots of Babbitt or antifriction metal. Diamond Anti-Friction Metal Company. No. 84,086; Nov. 7; Gaz. vol. 172; p. 255.
Base-ball bats. J. F. Hillerich & Son. Nos. 83,408–11; Sept. 12; Gaz. vol. 170; pp. 477–8.
Batiste. The H. B. Claflin Company. No. 81,252; Mar. 21; Gaz. vol. 164; p. 735.
Batteries, Dry. Manhattan Electrical Supply Company. No. 82,340; June 20; Gaz. vol. 167; p. 758.
Batteries, parts thereof, &c., Storage. Edison Storage Battery Company. No. 82,971; Aug. 8; Gaz. vol. 169; p. 445.
Batteries, Storage. J. C. Mohr. No. 80,669; Jan. 17; Gaz. vol. 162; p. 780.
Batteries, Storage. Vivax Storage Battery Company. No. 83,108; Aug. 15; Gaz. vol. 169; p. 699.
Batteries, Storage. The Miller Storage Battery Company. No. 83,681; Oct. 3; Gaz. vol. 171; p. 210.
Battery plates, Storage-. The Electric Storage Battery Company. No. 82,219; June 13; Gaz. vol. 167; p. 509.
Beans and peas. The Albert Dickinson Company. No. 84,607; Dec. 26; Gaz. vol. 173; p. 1074.
Bearing-balls. Atlas Ball Company. No. 82,196; June 13; Gaz. vol. 167; p. 509.
Bearing-balls. Atlas Ball Company. No. 82,952; Aug. 8; Gaz. vol. 169; p. 445.
Bearings, Ball-. B. L. Co. No. 83,885; Oct. 24; Gaz. vol. 171; p. 979.
Bearings, bushings, &c., Metal and graphite machine. The Graphite Lubricating Company. No. 83,488; Sept. 19; Gaz. vol. 170; p. 699.
Bearings, Oilless and antifriction. Franklin Company. No. 84,089; Nov. 7; Gaz. vol. 172; p. 255.
Beds and mattresses and bed-springs, Spring. Enterprise Bed Company. No. 80,714; Jan. 24; Gaz. vol. 162; p. 995.
Beds, Davenport-. The E. M. Hulse Company. No. 80,924; Feb. 14; Gaz. vol. 163; p. 478.
Bedspreads. Avon Mfg. Co. No. 81,774; May 9; Gaz. vol. 166; p. 507.
Beef-broth preparations. American Kitchen Products Company. No. 81,568; Apr. 25; Gaz. vol. 165; p. 967.
Beef extract. American Kitchen Products Company. No. 81,192; Mar. 14; Gaz. vol. 164; p. 503.
Beef, milk, and wheat, Extract of predigested. The Arlington Chemical Co. No. 82,195; June 13; Gaz. vol. 167; p. 509.
Beer. The Krantz Brewing Co. No. 81,725; May 2; Gaz. vol. 166; p. 247.
Beer. G. Sedlmayr, Brauerei zum Spaten. No. 82,834; July 25; Gaz. vol. 168; p. 1029.
Beer. Schaller Brewing Co. No. 82,915; Aug. 1; Gaz. vol. 169; p. 201.
Beer. Acme Brewing Co. No. 83,200; Aug. 29; Gaz. vol. 169; p. 1179.
Beer. Birk Bros. Brewing Co. No. 83,471; Sept. 19; Gaz. vol. 170; p. 699.
Beer. Birk Bros. Brewing Co. No. 83,632; Oct. 3; Gaz. vol. 171; p. 209.
Beer. Gebrüder Thomass Bierbrauerei zum Thomasbräu. No. 83,829; Oct. 17; Gaz. vol. 171; p. 740.
Beer. The Krantz Brewing Co. No. 84,183; Nov. 14; Gaz. vol. 172; p. 545.
Beer. Maier Brewing Company. No. 84,185; Nov. 14; Gaz. vol. 172; p. 546.
Beer. Golden West Brewing Company. No. 84,623; Dec. 26; Gaz. vol. 173; p. 1074.
Beer, ale, and porter. Liberty Brewing Co. No. 81,013; Feb. 21; Gaz. vol. 163; p. 724.
Beer and ale. Bartholomay Brewery Company. No. 80,696; Jan. 24; Gaz. vol. 162; p. 995.
Beer, Bottled. M. K. Goetz Brewing Co. No. 82,223; June 13; Gaz. vol. 167; p. 510.
Beer extract, Root-. Smith, Kline & French Company. No. 80,741; Jan. 24; Gaz. vol. 162; p. 996.
Beer, Ginger-. D. E. Moorefield. No. 81,160; Mar. 7; Gaz. vol. 164; p. 246.
Beer, Lager-. Oakland Brewing & Malting Co. No. 83,351; Sept. 5; Gaz. vol. 170; p 240.
Belis, Musical. J. C. Deagan. Nos. 80,898–9; Feb. 14; Gaz. vol. 163; p. 477.
Belt-dressing. The Gandy Belting Company of Baltimore City. No. 81,603; Apr. 25; Gaz. vol. 165; p. 968.
Belt-dressing compound, Power-. The Plomo Specialty Manufacturing Company. No. 83,354; Sept. 5; Gaz. vol. 170; p. 240.
Belt-fasteners. Flexible Steel Lacing Company. No. 84,224; Nov. 21; Gaz. vol. 172; p. 817.
Belt-lace, Wire. V. M. Luneburg. No. 83,077; Aug. 15; Gaz. vol. 169; p. 698.
Belt-lacing. Flexible Steel Lacing Company. No. 84,225; Nov. 21; Gaz. vol. 172; p. 817.
Belts, Composition for preventing slippage of transmission-. Cling-Surface Company. No. 84,167; Nov. 14; Gaz. vol. 172; p. 545.
Belts, Driving and carrying. F. Reddaway & Co. No. 84,680; Dec. 26; Gaz. vol. 173; p. 1076.
Belts for personal wear. W. L. De Véze. No. 81,791; May 9; Gaz. vol. 166; p. 507.
Belts for personal wear. G. E. Zeltmacher. No. 83,307; Aug. 29; Gaz. vol. 169; p. 1182.
Belts for personal wear. Whittredge Bag Company. No. 84,150; Nov. 7; Gaz. vol. 172; p. 257.
Belts, napkins and shoulder-braces, Sanitary. Mlle. Wolfe Co. No. 81,188; Mar. 7; Gaz. vol. 164; p. 247.
Belts, neckties, stocks, &c. B. Parker. No. 80,613; Jan. 10; Gaz. vol. 162; p. 534.
Belts, Rope. Aktiengesellschaft für Seil-Industrie vormals Ferdinand Wolff. No. 81,770; May 9; Gaz. vol. 166; p. 507.
Belts, Suspensory. Physicians & Surgeons Appliance Co. No. 80,616; Jan. 10; Gaz. vol. 162; p. 534.
Belting. New York Belting & Packing Company. No. 81,352; Mar. 28; Gaz. vol. 164; p. 972.
Belting. Smyth-Despard Company. No. 83,607; Sept. 26; Gaz. vol. 170; p. 925.
Belting and hose. The B. F. Goodrich Company. No. 83,575; Sept. 26; Gaz. vol. 170; p. 924.
Belting and tires. The B. F. Goodrich Company. No. 83,731; Oct. 10; Gaz. vol. 171; p. 477.
Belting, Canvas. The Gandy Belting Company of Baltimore City. No. 82,069; May 30; Gaz. vol. 166; p. 1277.
Belting, Driving and conveyer. W. L. Barrell. No. 82,492; July 4; Gaz. vol. 168; p. 245.
Belting fasteners, plates, and clamps, Machinery-. Crescent Belt Fastener Company. No. 82,212; June 13; Gaz. vol. 167; p. 509.
Belting, hose, packing, &c. Gorham Rubber Company. No. 80,523; Jan. 3; Gaz. vol. 162; p. 265.
Belting, Leather. The Bradford Belting Co. No. 80,700; Jan. 24; Gaz. vol. 162; p. 995.
Belting, Leather. American Belting & Tanning Co. Nos. 82,395–6; June 27; Gaz. vol. 167; p. 977.
Belting, Leather. Colonial Leather Company. No. 82,680; July 18; Gaz. vol. 168; p. 783.

Alphabetical list of trade-marks—Continued.

Belting, Leather machine-. The Druid Oak Belting Company. Nos. 82,683–5; July 18; Gaz. vol. 168; p. 783.
Belting, Machine-. Lewis & Tylor. No. 82,525; July 4; Gaz. vol. 168; p. 246.
Belting, Textile. Boston Belting Company. No. 82,295; June 20; Gaz. vol. 167; p. 757.
Belting, Textile. R. Hockaday. No. 83,737; Oct. 10; Gaz. vol. 171; p. 478.
Beverage. Puritan Manufacturing Company. No. 84,677; Dec. 26; Gaz. vol. 173; p. 1076.
Beverage, Fruit. Cherry Blossoms Manufacturing Company. No. 84,378; Dec. 12; Gaz. vol. 173; p. 579.
Beverage, Malt. H. Weinhard. No. 82,666; July 11; Gaz. vol. 168; p. 522.
Beverage, Non-intoxicating. W. E. Slaughter. No. 83,368; Sept. 5; Gaz. vol. 170; p. 241.
Beverage of pineapple-juice. Cuba Fruit Juice Company. No. 84,170; Nov. 14; Gaz. vol. 172; p. 545.
Beverage preparation, Liquid. W. O. Shea. No. 82,465; June 27; Gaz. vol. 167; p. 979.
Beverages. Hills Bros. No. 82,985; Aug. 8; Gaz. vol. 169; p. 446.
Beverages and containing syrups, Carbonated. J. Blaufuss. No. 84,161; Nov. 14; Gaz. vol. 172; p. 545.
Beverages and flavoring extracts therefor. Cheery Nectar Co. No. 83,392; Sept. 12; Gaz. vol. 170; p. 477.
Beverages, Carbonated. F. B. Clark. No. 84,214; Nov. 21; Gaz. vol. 172; p. 817.
Beverages, Certain. The Schuster Company. No. 82,649; July 11; Gaz. vol. 168; p. 522.
Beverages, Certain. A. H. Landsberger. No. 84,105; Nov. 7; Gaz. vol. 172; p. 256.
Beverages having a maple flavor. Arch City Bottling Co. No. 83,206; Aug. 29; Gaz. vol. 169; p. 1179.
Beverages, Non-alcoholic. Wayno Manufacturing Company. No. 82,389; June 20; Gaz. vol. 167; p. 760.
Beverages, Preparation for producing foam in. Parker-Browne Company. No. 81,412; Apr. 4; Gaz. vol. 165; p. 238.
Beverages, Syrup. A. O. Krahenbuhl. No. 82,612; July 11; Gaz. vol. 168; p. 521.
Bicycles. Iver Johnson Sporting Goods Co. No. 83,742; Oct. 10; Gaz. vol. 171; p. 478.
Bicycles, velocipedes, tricycles, &c. The Worthington Company. No. 81,376; Mar. 28; Gaz. vol. 164; p. 972.
Bill, letter, and note heads, Printed. J. S. McMillan. No. 82,620; July 11; Gaz. vol. 168; p. 521.
Billiard bowling-tables. Billiard Bowling Alley Company. No. 83,385; Sept. 12; Gaz. vol. 170; p. 477.
Binders and ledgers and leaves therefor, Loose-leaf. C. E. Sheppard Company. No. 82,917; Aug. 1; Gaz. vol. 169; p. 201.
Birds, Song-. E. D. Hooey. No. 83,252; Aug. 29; Gaz. vol. 169; p. 1180.
Biscuit. National Biscuit Company. Nos. 81,404–5; Apr. 4; Gaz. vol. 165; p. 237.
Biscuit. National Biscuit Company. No. 81,540; Apr. 18; Gaz. vol. 165; p. 726.
Biscuit. National Biscuit Company. No. 81,817; May 9; Gaz. vol. 166; p. 508.
Biscuit. Independent Baking Company. No. 82,152; June 6; Gaz. vol. 167; p. 237.
Biscuit. National Biscuit Company. No. 82,529; July 4; Gaz. vol. 168; p. 246.
Biscuit. National Biscuit Company. No. 83,858; Oct. 17; Gaz. vol. 171; p. 740.
Biscuits. W. R. Montague. No. 82,348; June 20; Gaz. vol. 167; p. 759.
Bitters. L. Bergonzi & Co. No. 82,563; July 11; Gaz. vol. 168; p. 519.
Bitters. J. Russak. No. 83,691; Oct. 3; Gaz. vol. 171; p. 210.
Bitters. L. Bergonzi & Company. No. 83,811; Oct. 17; Gaz. vol. 171; p. 739.
Bitters. F. W. Winkelmann. No. 83,878; Oct. 17; Gaz. vol. 171; p. 741.
Bitters and a remedy for certain diseases. Von Koster Bitters Co. No. 83,110; Aug. 15; Gaz. vol. 169; p. 699.
Bitters, Stomach-. Hartwig Kantorowicz Aktien-Gesellschaft. No. 81,875; May 16; Gaz. vol. 166; p. 748.
Bitters, Stomach-. The Hostetter Company. No. 84,232; Nov. 21; Gaz. vol. 172; p. 817.
Bitters, tonics, and ointments. W. G. Hughes. No. 84,632; Dec. 26; Gaz. vol. 173; p. 1075.
Bituminous binder. C. W. Andrews. No. 83,313; Sept. 5; Gaz. vol. 170; p. 239.
Blacking, dressing, and polish for shoes. Eclipse Cement & Blacking Company. No. 81,207; Mar. 14; Gaz. vol. 164; p. 503.
Blankets. Capital City Woolen Mills. No. 83,138; Aug. 22; Gaz. vol. 169; p. 939.
Blankets, Antiseptic. Blakeney Woolen Co. No. 84,075; Nov. 7; Gaz. vol. 172; p. 255.
Blankets, Cotton. The Pittsburgh Dry Goods Company. No. 82,822; July 25; Gaz. vol. 168; p. 1029.
Blasting caps and batteries, electric exploders, dynamite, &c. Independent Powder Company of Missouri. No. 83,413; Sept. 12; Gaz. vol. 170; p. 478.
Blasting-caps, electric exploders, dynamite, &c. Independent Powde. Company of Missouri. No. 84,367; Dec. 5; Gaz. vol. 173; p. 283.
Bleach for grease, tallow, oil, &c. William F. Jobbins, Incorporated. No. 81,011; Feb. 21; Gaz. vol. 163; p. 724.
Bleach for the skin. A. Armor. No. 84,450; Dec. 19; Gaz. vol. 173; p. 857.
Bleaching, Liquid compound used for. A. Wolfe. No. 81,654; Apr. 25; Gaz. vol. 165; p. 969.
Blood-purifier, herb tea, lung tea and balsam, &c. F. Otoupalik. No. 83,766; Oct. 10; Gaz. vol. 171; p. 478.
Blouses. Salant & Salant. No. 83,600; Sept. 26; Gaz. vol. 170; p. 925.
Blouses, shirts, and knee-pants, Boys'. N. Bregstone. No. 83,892; Oct. 24; Gaz. vol. 171; p. 979.
Blue and ammonia, Laundry. R. Herman. No. 80,657; Jan. 17; Gaz. vol. 162; p. 779.
Blue, Laundry. Reckitt & Sons. No. 81,910; May 16; Gaz. vol. 166; p. 749.
Bluing. J. Bauman. No. 84,583; Dec. 26; Gaz. vol. 173; p. 1073.
Bluing. J. A. Chambers. No. 84,594; Dec. 26; Gaz. vol. 173; p. 1074.
Bluing, Laundry. J. A. Chambers. Nos. 84,461–2; Dec. 19; Gaz. vol. 173; p. 857.
Bluing, Liquid. George A. Moss, Incorporated. No. 81,019; Feb. 21; Gaz. vol. 163; p. 724.
Boards of wood and fiber. Painting Machine Company. No. 82,718; July 18; Gaz. vol. 168; p. 784.
Boats. W. A. Hickman. No. 83,908; Oct. 24; Gaz. vol. 171; p. 979.
Bolting-cloth, Silk. Swiss Silk Bolting Cloth M'fg. Co. No. 83,023; Aug. 8; Gaz. vol. 169; p. 447.
Bolts, washers, and lock-nuts. The O. K. Nut Lock Company. No. 82,818; July 25; Gaz. vol. 168; p. 1029.
Bonbons and lozenges. Rigney & Company. No. 80,952; Feb. 14; Gaz. vol. 163; p. 479.
Book-cover cloths. H. B. Wiggin's Sons Company. No. 83,458; Sept. 12; Gaz. vol. 170; p. 479.
Books, Certain named. J. F. Tapley Company. No. 82,378; June 20; Gaz. vol. 167; p. 760.
Books, Illustrated. Hurst & Company. No. 80,658; Jan. 17; Gaz. vol. 162; p. 779.
Books made of textile fabrics. Dean's Rag Book Company. No. 83,146; Aug. 22; Gaz. vol. 169; p. 939.
Books of adventure. Hurst & Company. No. 81,464; Apr. 11; Gaz. vol. 165; p. 470.
Books, prints, photographs, and lithographs. Detroit Publishing Company. No. 84,364; Dec. 5; Gaz. vol. 173; p. 283.
Books, Technical. E. F. Bowman's Sons. No. 82,202; June 13; Gaz. vol. 167; p. 509.
Bookbinding. P. J. Renninger. No. 84,191; Nov. 14; Gaz. vol. 172; p. 546.
Boot and shoe counter stiffeners. C. E. Harwood Company. No. 84,316; Nov. 28; Gaz. vol. 172; p. 1085.
Boot and shoe polish. United Shoe Machinery Company. No. 84,297; Nov. 21; Gaz. vol. 172; p. 819.
Boot and shoe trees, shoe forms, lasts, and followers. O. A. Miller Treeing Machine Company. No. 83,592; Sept. 26; Gaz. vol. 170; p. 924.
Boots and shoes. The Miller Bros. Star Shoe Co. No. 80,864; Feb. 7; Gaz. vol. 163; p. 228.
Boots and shoes. Clark-Hutchinson Company. No. 81,200; Mar. 14; Gaz. vol. 164; p. 503.
Boots and shoes. A. E. Little & Company. No. 82,701; July 18; Gaz. vol. 168; p. 784.
Boots and shoes. John H. Cross Company. No. 82,763; July 25; Gaz. vol. 168; p. 1027.
Boots and shoes and parts thereof. Thomas G. Plant Co. No. 81,414; Apr. 4; Gaz. vol. 165; p. 238.
Boots and shoes, Children's. Paul Brothers. No. 81,025; Feb. 21; Gaz. vol. 163; p. 724.
Boots and shoes, Ladies' leather. W. Henne & Co. No 83,155; Aug. 22; Gaz. vol. 169; p. 940.
Boots and shoes, Leather. Saks & Company. No. 80,681; Jan. 17; Gaz. vol. 162; p. 780.
Boots and shoes, Leather. Stewart-Dawes Shoe Company. No. 80,813; Jan. 31; Gaz. vol. 162; p. 1180.
Boots and shoes, Leather. Emery & Marshall. No. 80,837; Feb. 7; Gaz. vol. 163; p. 227.
Boots and shoes, Leather. George F. Dittmann Boot & Shoe Co. No. 81,596; Apr. 25; Gaz. vol. 165; p. 968.
Boots and shoes, Leather. F. M. Hoyt Shoe Company. No. 82,086; May 30; Gaz. vol. 166; p. 1278.
Boots and shoes, Leather. The Huiskamp Bro's Co. No. 82,088; May 30; Gaz. vol. 166; p. 1278.
Boots and shoes, Leather. Parker, Holmes & Co. No. 82,106; May 30; Gaz. vol. 166; p. 1278.
Boots and shoes, Leather. Newberry Shoe Co. No. 82,627; July 11; Gaz. vol. 168; p. 521.
Boots and shoes, Leather. Heywood Boot & Shoe Company. No. 82,691; July 18; Gaz. vol. 168; p. 783.
Boots and shoes, Leather. W. L. Douglas Shoe Co. No. 82,876; Aug. 1; Gaz. vol. 169; p. 199.
Boots and shoes, Leather. Upham Bros. Co. No. 83,105; Aug. 15; Gaz. vol. 169; p. 699.
Boots and shoes, Leather. B. A. Corbin & Son Co. No. 83,326; Sept. 5; Gaz. vol. 170; p. 239.

Alphabetical list of trade-marks—Continued.

Boots and shoes, Leather and rubber. The Miller Bros. Star Shoe Co. No. 81,814; May 9; Gaz. vol. 166; p. 508.
Boots and shoes, Leather and rubber. Battreall Shoe Co. No. 83,210; Aug. 29; Gaz. vol. 169; p. 1179.
Boots, shoes, and oxfords. Honesdale Shoe Co. No. 81,337; Mar. 28; Gaz. vol. 164; p. 971.
Boots, shoes, and slippers. J. H. Aylsworth, Jr. No. 81,049; Feb. 28; Gaz. vol. 163; p. 973.
Boots, shoes, and slippers. The Beacon Falls Rubber Shoe Company. No. 83,317; Sept. 5; Gaz. vol. 170; p. 239.
Boots, shoes, leggings, &c., Leather. P. E. Marlow. No. 80,726; Jan. 24; Gaz. vol. 162; p. 996.
Boots, shoes, slippers, and moccasins, Leather. G. H. Bass & Co. No. 80,635; Jan. 17; Gaz. vol. 162; p. 779.
Boring-mill, planer and shaper, lathe and turning tools. T. Fish. No. 81,138; Mar. 7; Gaz. vol. 164; p. 245.
Bottle-stoppers. The "Dan" Patent Crown Cork Syndicate. No. 84,172; Nov. 14; Gaz. vol. 172; p. 545.
Bottles, Glass. Empire Bottle & Supply Company. No. 84,383; Dec. 12; Gaz. vol. 173; p. 579.
Bottles, ice-caps, fountain-syringes, &c., Water-. The Faultless Rubber Company. No. 83,567; Sept. 26; Gaz. vol. 170; p. 924.
Bottles, Metal hot-water. L. F. Gillette. No. 82,071; May 30; Gaz. vol. 166; p. 1278.
Bottles, &c., Metallic caps for. The Crown Cork & Seal Company. No. 83,395; Sept. 12; Gaz. vol. 170; p. 477.
Bouillon, Concentrated. American Kitchen Products Company. No. 82,288; June 20; Gaz. vol. 167; p. 757.
Boxes for holding tools and batteries. Globe Machine and Stamping Co. No. 82,072; May 30; Gaz. vol. 166; p. 1278.
Bracelets and lockets. Bliss Brothers Company. No. 83,552; Sept. 26; Gaz. vol. 170; p. 923.
Bracelets, lockets, and swivels. S. M. Einstein. No. 81,597; Apr. 25; Gaz. vol. 165; p. 968.
Bracelets, lockets, and swivels. S. M. Einstein. No. 81,863; May 16; Gaz. vol. 166; p. 747.
Braids, Dress-. Syracuse Dry Goods Company. No. 82,479; June 27; Gaz. vol. 167; p. 979.
Brake-band lining. H. W. Johns-Manville Co. No. 80,536; Jan. 3; Gaz. vol. 162; p. 266.
Brake-beams. Simplex Railway Appliance Company. No. 83,367; Sept. 5; Gaz. vol. 170; p. 240.
Brake-linings. E. H. Garcin. No. 80,774; Jan. 31; Gaz. vol. 162; p. 1179.
Brandy. C. A. Van Rensselaer & Company. No. 83,619; Sept. 26; Gaz. vol. 170; p. 925.
Brandy, Cherry. P. F. Heering. No. 82,438; June 27; Gaz. vol. 167; p. 978.
Brass and metal polishers. Kettler Brass Mfg. Co. No. 84,182; Nov. 14; Gaz. vol. 172; p. 545.
Bread. R. Vander Molen. No. 80,609; Jan. 10; Gaz. vol. 162; p. 534.
Bread. Shane Bros. & Wilson Co. No. 82,724; July 18; Gaz. vol. 168; p. 784.
Bread. E. Braun. No. 83,217; Aug. 29; Gaz. vol. 169; p. 1179.
Bread. J. S. Heinpockel & Co. No. 83,333; Sept. 5; Gaz. vol. 170; p. 239.
Bread. L. J. Greenwald. No. 83,489; Sept. 19; Gaz. vol. 170; p. 699.
Bread. G. E. Mansfield, Jr. No. 83,679; Oct. 3; Gaz. vol. 171; p. 210.
Bread. Crouch & Plassmann. No. 84,083; Nov. 7; Gaz. vol. 172; p. 255.
Bread, Rye. M. Herbst. No. 82,885; Aug. 1; Gaz. vol. 169; p. 200.
Breath-deodorizing tablets. The Hydus Chemical Co. No. 84,004; Oct. 31; Gaz. vol. 171; p. 1253.
Breathing apparatus for use in mines, &c. Siebe, Gorman & Co. Ltd. No. 83,188; Aug. 22; Gaz. vol. 169; p. 941.
Brewing material in dry form. Corn Products Refining Company. No. 82,421; June 27; Gaz. vol. 167; 977.
Brewing preparations. American Burtonizing Company. No. 83,976; Oct. 31; Gaz. vol. 171; p. 1253.
Brick. W. B. Ferris. No. 81,982; May 23; Gaz. vol. 166; p. 982.
Brick and building-blocks. Yingling-Martin Brick Company. No. 83,304; Aug. 29; Gaz. vol. 169; p. 1182.
Brick, Composition paving-. Armstrong Cork Company. No. 81,944; May 23; Gaz. vol. 166; p. 981.
Bricks. Thomas Moulding Company. Nos. 82,183–4; June 6; Gaz. vol. 167; p. 238.
Bricks. Martinsville Brick Co. No. 82,246; June 13; Gaz. vol. 167; p. 510.
Bricks. The Crucial Fire Brick Company. No. 82,871; Aug. 1; Gaz. vol. 169; p. 199.
Bricks, Fire-. American Arch Company. No. 84,357; Dec. 5; Gaz. vol. 173; p. 283.
Bricks, Front, paving, and fire. Toronto Fire Clay Company. No. 82,122; May 30; Gaz. vol. 166; p. 1279.
Bricks, tiles, and blocks, Fire-. Greenpoint Fire Brick Co. No. 80,515; Jan. 3; Gaz. vol. 162; p. 265.
Bristles. A. Richter. No. 82,109; May 30; Gaz. vol. 166; p. 1279.
Bristles. Garrels & Börner. No. 83,241; Aug. 29; Gaz. vol. 169; p. 1180.
Bristol-board for card-indexes and cover-paper. Parsons Paper Co. No. 84,404; Dec. 12; Gaz. vol. 173; p. 580.
Broom-root. Graham, Hinkley & Co. Nos. 83,406–7; Sept. 12; Gaz. vol. 170; p. 477.
Brooms. Veeder Broom Company. No. 80,561; Jan. 3; Gaz. vol. 162; p. 266.
Brooms. The Joseph Lay Company. No. 80,929; Feb. 14; Gaz. vol. 163; p. 478.
Brooms. Merkle Wiley Broom Co. No. 81,089; Feb. 28; Gaz. vol. 163; p. 974.
Brooms. Merkle-Wiley Broom Co. No. 81,349; Mar. 28; Gaz. vol. 164; p. 972.
Brooms. Memphis Broom & Brush Company. No. 83,757; Oct. 10; Gaz. vol. 171; p. 478.
Brooms. Bristol Broom Company. No. 83,983; Oct. 31; Gaz. vol. 171; p. 1253.
Brooms, brushes, and dusters, Certain. Fischer Bros. No. 82,317; June 20; Gaz. vol. 167; p. 758.
Brushes. W. A. Tottle. No. 80,560; Jan. 3; Gaz. vol. 162; p. 266.
Brushes. Hall & Lyon Co. No. 81,702; May 2; Gaz. vol. 166; p. 246.
Brushes. Holton & Adams. No. 81,710; May 2; Gaz. vol. 166; p. 246.
Brushes and powder-puffs. Holton & Adams. No. 82,084; May 30; Gaz. vol. 166; p. 1278.
Brushes, Calcimine and paint. P. Maendler. No. 80,664; Jan. 17; Gaz. vol. 162; p. 780.
Brushes, Fountain shaving-. Fesler Sales Company. No. 81,261; Mar. 21; Gaz. vol. 164; p. 735.
Brushes, Hair-. Marshall Field & Company. No. 82,588; July 11; Gaz. vol. 168; p. 520.
Brushes, Hair and tooth. Julius Schmid, Inc. No. 81,304; Mar. 21; Gaz. vol. 164; p. 737.
Brushes, Paint, varnish, and whitewash. W. A. Tottle. No. 82,379; June 20; Gaz. vol. 167; p. 760.
Brushes, Rubber-cushioned. Acker, Merrall & Condit Company. No. 81,941; May 23; Gaz. vol. 166; p. 981.
Brushes, Shaving-. The Koken Barbers' Supply Company. No. 83,745; Oct. 10; Gaz. vol. 171; p. 478.
Brushes, Tooth-. Geo. Borgfeldt & Co. No. 81,121; Mar. 7; Gaz. vol. 164; p. 245.
Brushes, Tooth-. Kolberger Anstalten für Exterikultur Wilh. Anhalt Gesellschaft mit beschränkter Haftung. No. 82,337; June 20; Gaz. vol. 167; p. 758.
Brushes, Whitewash-. W. A. Tottle. No. 80,817; Jan. 31; Gaz. vol. 162; p. 1181.
Buckles for clothing. Alma Manufacturing Company of Baltimore City. No. 82,130; June 6; Gaz. vol. 167; p. 237.
Buckles for personal wear. Alma Manufacturing Company of Baltimore City. No. 82,743; July 25; Gaz. vol. 168; p. 1027.
Buckram cloth. Atlas Buckram Company. No. 82,491; July 4; Gaz. vol. 168; p. 245.
Buffing and polishing wheels. F. L. & J. C. Codman. No. 82,210; June 13; Gaz. vol. 167; p. 509.
Building materials, Certain. J. B. King & Co. No. 80,660; Jan. 17; Gaz. vol. 162; p. 779.
Building materials, Certain. J. B. King & Co. No. 80,662; Jan. 17; Gaz. vol. 162; p. 779.
Building materials, Certain. The National Roofing Company. No. 80,936; Feb. 14; Gaz. vol. 163; p. 478.
Buildings, Sheet material for the interior finish of. Deco-Veneer Company. No. 81,965; May 23; Gaz. vol. 166; p. 981.
Bung-bushings, Metal. The United States Bung Manufacturing Company. No. 81,759; May 2; Gaz. vol. 166; p. 248.
Burner tips, Acetylene-. Acetylene Apparatus Manufacturing Co. No. 82,740; July 18; Gaz. vol. 168; p. 785.
Bust extenders and forms, stocks, hose-supporters, &c. The Spirella Company. No. 83,019; Aug. 8; Gaz. vol. 169; p. 447.
Butter. Diamond Creamery Co. No. 82,768; July 25; Gaz. vol. 168; p. 1027.
Butter. William S. Riley Co. No. 82,912; Aug. 1; Gaz. vol. 169; p. 200.
Butter. Diamond Creamery Co. No. 84,216; Nov. 21; Gaz. vol. 172; p. 817.
Butter. Diamond Creamery Co. No. 84,605; Dec. 26; Gaz. vol. 173; p. 1074.
Butter and cheese. Galloway-West Company. No. 82,593; July 11; Gaz. vol. 168; p. 520.
Butter and cream. H. W. Belden. No. 80,754; Jan. 31; Gaz. vol. 162; p. 1179.
Butter and eggs. C. H. Burmeister & Company. No. 82,756; July 25; Gaz. vol. 168; p. 1027.
Butter, cheese, and eggs. Droste & Snyder. No. 84,218; Nov. 21; Gaz. vol. 172; p. 817.
Butter, creamery-cheese, milk, cream, ice-cream, and buttermilk. Geo. N. Marshall Co. No. 83,847; Oct. 17; Gaz. vol. 171; p. 740.
Butter, eggs, and dressed poultry. Conron Bros. Company. No. 84,600; Dec. 26; Gaz. vol. 173; p. 1074.
Buttons. Morley Button Manufacturing Company. No. 81,733; May 2; Gaz. vol. 166; p. 247.
Buttons, Garment-. L. Rothschild. No. 83,007; Aug. 8; Gaz. vol. 169; p. 447.
Buttons, Link-. The Horton-Angell Company. No. 82,234; June 13; Gaz. vol. 167; p. 510.

Alphabetical list of trade-marks—Continued.

Cabinets. Geo. S. Johnston Co. No. 83,918; Oct. 24; Gaz. vol. 171; p. 980.
Cabinets and benches, Kitchen. The Cardinal Cabinet Co. No. 83,320; Sept. 5; Gaz. vol. 170; p. 239.
Cabinets, Storage. J. Messersmith. No. 81,281; Mar. 21; Gaz. vol. 164; p. 736.
Cacao, chocolate, and comfit. Hartwig & Vogel Aktiengesellschaft. No. 84,392; Dec. 12; Gaz. vol. 173; p. 579.
Cake. The F. O. Stone Baking Co. No. 82,117; May 30; Gaz. vol. 166; p. 1279.
Cake. The F. O. Stone Baking Co. No. 83,372; Sept. 5; Gaz. vol. 170; p. 241.
Cake and biscuits. Wed. B. van Doesburg. No. 80,584; Jan. 10; Gaz. vol. 162; p. 533.
Cakes, Nut and fruit. The Ohio Confection Co. No. 81,620; Apr. 25; Gaz. vol. 165; p. 968.
Cakes, sweetmeats, wafers, &c. W. C. Van der Kaaij. No. 82,991; Aug. 8; Gaz. vol. 169; p. 446.
Calcimine. Wadsworth, Howland & Co. No. 81,234; Mar. 14; Gaz. vol. 164; p. 504.
Calcimine, Paste. Arabol M'f'g. Co. No. 84,448; Dec. 19; Gaz. vol. 173; p. 857.
Calcimining compound. Bush and Ilten. No. 80,704; Jan. 24; Gaz. vol. 162; p. 995.
Cameras. Daydark Specialty Company. No. 82,215; June 13; Gaz. vol. 167; p. 509.
Cameras and photographic developing apparatus. Commercial Camera Co. No. 83,479; Sept. 19; Gaz. vol. 170; p. 699.
Candied peels. The Hills Brothers Company. No. 81,335; Mar. 28; Gaz. vol. 164; p. 971.
Candies. The Walter M. Lowney Company. No. 80,857; Feb. 7; Gaz. vol. 163; p. 228.
Candies. Excelsior Candy Co. No. 81,208; Mar. 14; Gaz. vol. 164; p. 503.
Candies. The National Candy Company. No. 81,619; Apr. 25; Gaz. vol. 165; p. 968.
Candies. M. T. Hoban. No. 81,804; May 9; Gaz. vol. 166; p. 508.
Candies. Jaynes Drug Company. No. 82,519; July 4; Gaz. vol. 168; p. 245.
Candies. A. S. Hoyt. No. 82,793; July 25; Gaz. vol. 168; p. 1028.
Candies. C. Takis. No. 83,699; Oct. 3; Gaz. vol. 171; p. 211.
Candies and chocolates. A. L. Mock. No. 81,618; Apr. 25; Gaz. vol. 165; p. 968.
Candies and nuts. Heit-Miller-Lau Co. No. 80,779; Jan. 31; Gaz. vol. 162; p. 1180.
Candies and sweet chocolate, Chocolate. M & S Cocoa and Chocolate Co. No. 84,652; Dec. 26; Gaz. vol. 173; p. 1075.
Candies, Chocolate. Central Candy Company. No. 80,573; Jan. 10; Gaz. vol. 162; p. 533.
Candies, Chocolate. W. F. Schrafft & Sons Corporation. No. 83,360; Sept. 5; Gaz. vol. 170; p. 240.
Candies, Chocolate. Levine Bros. No. 84,112; Nov. 7; Gaz. vol. 172; p. 256.
Candies, chocolates, and sweetened popcorn. Crown Chocolate Co. No. 80,645; Jan. 17; Gaz. vol. 162; p. 779.
Candy. Cedar Rapids Candy Company. No. 80,989; Feb. 21; Gaz. vol. 163; p. 723.
Candy. F. B. Washburn & Co. No. 81,041; Feb. 21; Gaz. vol. 163; p. 725.
Candy. Brown Cracker & Candy Company. No. 81,122; Mar. 7; Gaz. vol. 164; p. 245.
Candy. T. C. Dusenberg. No. 81,206; Mar. 14; Gaz. vol. 164; p. 503.
Candy. Weilman Candy Company. No. 82,248; June 13; Gaz. vol. 167; p. 510.
Candy. Weilman Candy Company. No. 82,281; June 13; Gaz. vol. 167; p. 511.
Candy. The Chandler and Rudd Company. No. 82,415; June 27; Gaz. vol. 167; p. 977.
Candy. W. F. Speck. No. 82,476; June 27; Gaz. vol. 167; p. 979.
Candy. S. F. Williams. No. 82,667; July 11; Gaz. vol. 168; p. 522.
Candy. C. A. Crane. No. 82,682; July 18; Gaz. vol. 168; p. 783.
Candy. Roddewig-Schmidt Candy Co. No. 82,913; Aug. 1; Gaz. vol. 169; p. 200.
Candy. The Hornby Company. No. 82,987; Aug. 8; Gaz. vol. 169; p. 446.
Candy. Knorpp Candy Company. No. 82,994; Aug. 8; Gaz. vol. 169; p. 446.
Candy. The Chandler & Rudd Company. No. 83,047; Aug. 15; Gaz. vol. 169; p. 697.
Candy. Johnson Biscuit Co. No. 83,161; Aug. 22; Gaz. vol. 169; p. 940.
Candy. The George Close Company. No. 83,322; Sept. 5; Gaz. vol. 170; p. 239.
Candy. S. Dempsey. No. 83,561; Sept. 26; Gaz. vol. 170; p. 923.
Candy. Kandarian Bros. No. 84,007; Oct. 31; Gaz. vol. 171; p. 1254.
Candy. A. C. Todd. No. 84,198; Nov. 14; Gaz. vol. 172; p. 546.
Candy, candy lozenges and pellets. Auto-Merchandising Company of Pittsburgh, Pennsylvania. No. 83,884; Oct. 24; Gaz. vol. 171; p. 979.
Candy, Chocolate. Palmer & Co. No. 82,166; June 6; Gaz. vol. 167; p. 238.
Candy, Chocolate. G. Haas & Sons. No. 82,434; June 27; Gaz. vol. 167; p. 978.
Candy, Chocolate. Salina Candy Company. No. 83,183; Aug. 22; Gaz. vol. 169; p. 940.
Candy, Chocolate. The Salina Candy Company. No. 83,515; Sept. 19; Gaz. vol. 170; p. 700.
Candy, Cream. Dilling & Company. No. 82,583; July 11; Gaz. vol. 168; p. 520.
Candy kisses. Dilling & Company. No. 83,993; Oct. 31; Gaz. vol. 171; p. 1253.
Candy known as "hopjes." Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao & Chocoladefabrieken. No. 82,808; July 25; Gaz. vol. 168; p. 1029.
Candles. The Procter & Gamble Company. No. 80,545; Jan. 3; Gaz. vol. 162; p. 266.
Candles. West India Oil Company. Nos. 82,034–8; May 23; Gaz. vol. 166; p. 983.
Candles. West India Oil Company. Nos. 82,735–6; July 18; Gaz. vol. 168; p. 785.
Candles. West India Oil Company. No. 82,848; July 25; Gaz. vol. 168; p. 1030.
Candles. Schaeffer Bros. & Powell Mfg. Co. Nos. 83,517–18; Sept. 19; Gaz. vol. 170; p. 700.
Candles. The Will & Baumer Company. No. 83,958; Oct. 24; Gaz. vol. 171; p. 981.
Candles and night-lights. Christr. Thomas & Bros. No. 84,213; Nov. 21; Gaz. vol. 172; p. 817.
Candles, Beeswax. The Bourgeois Company. No. 80,826; Feb. 7; Gaz. vol. 163; p. 227.
Canned and dried eggs. H. J. Keith Co. No. 84,641; Dec. 26; Gaz. vol. 173; p. 1075.
Canned corn. Cereal Food Company. No. 81,432; Apr. 11; Gaz. vol. 165; p. 469.
Canned corn. Illinois Canning Co. No. 83,840; Oct. 17; Gaz. vol. 171; p. 740.
Canned corn. The Illinois Canning Company. No. 84,005; Oct. 31; Gaz. vol. 171; p. 1254.
Canned corn and canned red kidney-beans. Grimes Canning & Preserving Company. No. 84,227; Nov. 21; Gaz. vol. 172; p. 817.
Canned corn, pumpkin, and hominy. Grimes Canning & Preserving Company. No. 83,247; Aug. 29; Gaz. vol. 169; p. 1180.
Canned crab-meat. North American Mercantile Co. No. 83,851; Oct. 17; Gaz. vol. 171; p. 740.
Canned crab-meat. North American Mercantile Co. Nos. 84,513–14; Dec. 19; Gaz. vol. 173; p. 859.
Canned, dried, and evaporated fruits. Griffin & Skelley Company. No. 81,072; Feb. 28; Gaz. vol. 163; p. 973.
Canned fruit and vegetables. California Fruit Canners Association. No. 82,203; June 13; Gaz. vol. 167; p. 509.
Canned fruit and vegetables. R. C. Williams & Co. No. 84,710; Dec. 26; Gaz. vol. 173; p. 1077.
Canned fruits. Hunt Brothers Company. No. 80,782; Jan. 31; Gaz. vol. 162; p. 1180.
Canned fruits. Carquinez Packing Co. No. 82,048; May 30; Gaz. vol. 166; p. 1277.
Canned fruits. John F. White Company. No. 83,033; Aug. 8; Gaz. vol. 169; p. 447.
Canned fruits. Griffith-Durney Company. No. 83,830; Oct. 17; Gaz. vol. 171; p. 740.
Canned fruits and evaporated milk. J. M. Paver Company. No. 81,480; Apr. 11; Gaz. vol. 165; p. 470.
Canned fruits and vegetables. J. H. Hoffecker Canning Company. No. 80,922; Feb. 14; Gaz. vol. 163; p. 478.
Canned fruits and vegetables. Fort Stanwix Canning Company. Nos. 81,065–6; Feb. 28; Gaz. vol. 163; p. 973.
Canned fruits and vegetables. John C. Moomaw Co. No. 82,011; May 23; Gaz. vol. 166; p. 983.
Canned fruits and vegetables. Moore & Brady Company. No. 82,012; May 23; Gaz. vol. 166; p. 983.
Canned fruits and vegetables. California Fruit Canners Association. No. 82,412; June 27; Gaz. vol. 167; p. 977.
Canned fruits and vegetables. Fleming & Co. No. 82,779; July 25; Gaz. vol. 168; p. 1028.
Canned fruits and vegetables. W. F. Assau Canning Co. No. 82,949; Aug. 8; Gaz. vol. 169; p. 445.
Canned fruits and vegetables. W. F. Assau Canning Co. Nos. 83,207–8; Aug. 29; Gaz. vol. 169; p. 1179.
Canned fruits and vegetables and tomato catsup. Stoddard, Gilbert & Co. No. 83,102; Aug. 15; Gaz. vol. 169; p. 698.
Canned fruits, vegetables, and oysters. Fleming & Co. No. 82,780; July 25; Gaz. vol. 168; p. 1028.
Canned fruits, vegetables, and salmon. F. E. Royston & Co. No. 80,807; Jan. 31; Gaz. vol. 162; p. 1180.
Canned fruits, vegetables, hominy, &c. The John H. Fitch Co. No. 82,973; Aug. 8; Gaz. vol. 169; p. 445.
Canned fruits, vegetables, oysters, and corn tips and kernels. H. P. Strasbaugh. No. 83,866; Oct. 17; Gaz. vol. 171; p. 741.
Canned fruits, vegetables, rice, and coffee. Jett & Wood Grocer Co. No. 83,841; Oct. 17; Gaz. vol. 171; p. 740.

Alphabetical list of trade-marks—Continued.

Canned goods and foods, Certain. Austin, Nichols & Co. No. 81,194; Mar. 14; Gaz. vol. 164; p. 503.
Canned goods and preserved fruits. Coast Products Company. No. 82,761; July 25; Gaz. vol. 168; p. 1027.
Canned goods and roasted coffee, Certain. J. H. Merrill Company. No. 82,343; June 20; Gaz. vol. 167; p. 758.
Canned goods, Certain. Virginia Canning Co. No. 80,881; Feb. 7; Gaz. vol. 163; p. 228.
Canned goods, Certain. Otto Kuehne Preserving Co. No. 81,084; Feb. 28; Gaz. vol. 163; p. 974.
Canned goods, Certain. Bass Daughtry Co. No. 81,243; Mar. 21; Gaz. vol. 164; p. 735.
Canned goods, Certain. Charles Hewitt & Sons Company. No. 81,877; May 16; Gaz. vol. 166; p. 748.
Canned goods, Certain. H. P. Strasbaugh. No. 83,524; Sept. 19; Gaz. vol. 170; p. 700.
Canned goods, Certain. P. P. Lee & Company. No. 83,656; Oct. 3; Gaz. vol. 171; p. 209.
Canned goods, Certain named. P. P. Lee & Company. No. 83,340; Sept. 5; Gaz. vol. 170; p. 240.
Canned hominy. Western Grocer Company. No. 82,487; June 27; Gaz. vol. 167; p. 979.
Canned lobster, crabs, fish, and shell-fish. Nemuro Kanzume Kabushiki Kaisha. No. 83,000; Aug. 8; Gaz. vol. 169; p. 446.
Canned oysters. A. Oemler. No. 81,410; Apr. 4; Gaz. vol. 165; p. 238.
Canned oysters. Moore & Brady Company. No. 82,249; June 13; Gaz. vol. 167; p. 510.
Canned oysters. Goldberg, Bowen & Co. No. 82,322; June 20; Gaz. vol. 167; p. 758.
Canned oysters. Moore & Brady Company. No. 83,270; Aug. 29; Gaz. vol. 169; p. 1181.
Canned oysters. G. W. Lowden. No. 83,659; Oct. 3; Gaz. vol. 171; p. 210.
Canned oysters and shrimp. Pelican Lake Oyster & Packing Company. No. 81,622; Apr. 25; Gaz. vol. 165; p. 968.
Canned oysters, canned tomatoes, and canned peas. Miller Bros. & Co. No. 81,090; Feb. 28; Gaz. vol. 163; p. 974.
Canned oysters, fruits, and vegetables. Torsch Packing Company. No. 84,553; Dec. 19; Gaz. vol. 173; p. 860.
Canned peaches. Miller Bros. & Co. No. 81,732; May 2; Gaz. vol. 166; p. 247.
Canned pineapples. Import Packing Company. No. 84,637; Dec. 26; Gaz. vol. 173; p. 1075.
Canned pork and beans. W. H. Dyer. No. 81,058; Feb. 28; Gaz. vol. 163; p. 973.
Canned, preserved, and dried fruits and canned vegetables. The Coast Products Company. No. 82,053; May 30; Gaz. vol. 166; p. 1277.
Canned, preserved, and dried fruits and canned vegetables. Coast Products Company. No. 82,498; July 4; Gaz. vol. 168; p. 245.
Canned product of asparagus. R. Hickmott Canning Co. No. 84,098; Nov. 7; Gaz. vol. 172; p. 256.
Canned salmon. Deming & Gould Co. No. 81,056; Feb. 28; Gaz. vol. 163; p. 973.
Canned salmon. Pacific American Fisheries. Nos. 81,095–6; Feb. 28; Gaz. vol. 163; p. 974.
Canned salmon. Fidalgo Island Packing Co. No. 81,137; Mar. 7; Gaz. vol. 164; p. 245.
Canned salmon. Pacific American Fisheries. No. 81,165; Mar. 7; Gaz. vol. 164; p. 246.
Canned salmon. Deming & Gould Company. No. 81,256; Mar. 21; Gaz. vol. 164; p. 735.
Canned salmon. Gorman & Company. No. 81,332; Mar. 28; Gaz. vol. 164; p. 971.
Canned salmon. Pacific American Fisheries. No. 81,411; Apr. 4; Gaz. vol. 165; p. 238.
Canned salmon. R. C. Williams & Co. No. 81,689; May 2; Gaz. vol. 166; p. 246.
Canned salmon. Union Fishermen's Co-Operative Packing Co. No. 81,835; May 9; Gaz. vol. 166; p. 509.
Canned salmon. Union Fishermen's Co-Operative Packing Company. Nos. 82,381–2; June 20; Gaz. vol. 167; p. 760.
Canned salmon. Kelley-Clarke Co. No. 82,521; July 4; Gaz. vol. 168; p. 246.
Canned salmon. Kelley-Clarke Co. No. 82,609; July 11; Gaz. vol. 168; p. 520.
Canned salmon. North Pacific Trading & Packing Co. No. 82,713; July 18; Gaz. vol. 168; p. 784.
Canned salmon. Key City Packing Co. Nos. 82,800–3; July 25; Gaz. vol. 168; p. 1028.
Canned salmon. Hawk Fish Company. Nos. 82,979–80; Aug. 8; Gaz. vol. 169; p. 446.
Canned salmon. Pillar Bay Packing Co. Nos. 83,854–5; Oct. 17; Gaz. vol. 171; p. 740.
Canned salmon. Yes Bay Canning Co. No. 83,961; Oct. 24; Gaz. vol. 171; p. 981.
Canned salmon. Lindenberger Packing Co. No. 84,014; Oct. 31; Gaz. vol. 171; p. 1254.
Canned salmon. Pillar Bay Packing Co. No. 84,039; Oct. 31; Gaz. vol. 171; p. 1254.
Canned salmon. Pillar Bay Packing Co. No. 84,255; Nov. 21; Gaz. vol. 172; p. 818.
Canned salmon. Allen Brothers Company. No. 84,375; Dec. 12; Gaz. vol. 173; p. 579.
Canned salmon and sardines. Ridenour-Baker Grocery Company. No. 81,358; Mar. 28; Gaz. vol. 164; p. 972.
Canned sardines. Frenchman's Bay Packing Co. No. 81,140; Mar. 7; Gaz. vol. 164; p. 245.
Canned sardines. Mansfield Packing Co. No. 82,341; June 20; Gaz. vol. 167; p. 758.
Canned sardines. C. B. Mitchell. No. 82,347; June 20; Gaz. vol. 167; p. 759.
Canned sardines. Wyman Canning Co. No. 83,118; Aug. 15; Gaz. vol. 169; p. 699.
Canned sardines. United Sardine Factories. No. 83,296; Aug. 29; Gaz. vol. 169; p. 1181.
Canned sardines. The Phoenix Packing Co. No. 83,381; Sept. 5; Gaz. vol. 170; p. 241.
Canned sardines. Central Brokerage Company. No. 83,634; Oct. 3; Gaz. vol. 171; p. 209.
Canned sardines. J. H. Mercian. No. 84,403; Dec. 12; Gaz. vol. 173; p. 579.
Canned sardines. New Orleans Manufacturers Agency Co. No. 84,661; Dec. 26; Gaz. vol. 173; p. 1076.
Canned sauer-kraut. The Fremont Kraut Company. No. 80,521; Jan. 3; Gaz. vol. 162; p. 265.
Canned sauer-kraut. The Fremont Kraut Company. No. 80,589; Jan. 10; Gaz. vol. 162; p. 533.
Canned smoked sardines. Neptune Packing Co. No. 81,406; Apr. 4; Gaz. vol. 165; p. 238.
Canned tomatoes. G. W. Evans. No. 82,313; June 20; Gaz. vol. 167; p. 758.
Canned tomatoes. H. P. Cannon & Son. No. 84,592; Dec. 26; Gaz. vol. 173; p. 1074.
Canned tomatoes and pumpkin and tomato catsup. The A. W. Colter Canning Company. No. 81,677; May 2; Gaz. vol. 166; p. 245.
Canned vegetables. Olney & Floyd. No. 80,610; Jan. 10; Gaz. vol. 162; p. 534.
Canned vegetables. Olney & Floyd. Nos. 80,797–8; Jan. 31; Gaz. vol. 162; p. 1180.
Canned vegetables. Granger & Company. No. 81,071; Feb. 28; Gaz. vol. 163; p. 973.
Canned vegetables. The Haserot Canneries Company. No. 81,215; Mar. 14; Gaz. vol. 164; p. 503.
Canned vegetables. Ridenour-Baker Grocery Co. No. 81,297; Mar. 21; Gaz. vol. 164; p. 736.
Canned vegetables. Peru Canning Company. No. 81,413; Apr. 4; Gaz. vol. 165; p. 238.
Canned vegetables. Fogg & Hires Company. No. 81,449; Apr. 11; Gaz. vol. 165; p. 469.
Canned vegetables. Monmouth Canning Co. No. 81,473; Apr. 11; Gaz. vol. 165; p. 470.
Canned vegetables. G. Johnson. No. 81,881; May 16; Gaz. vol. 166; p. 748.
Canned vegetables. G. Johnson. Nos. 81,996–7; May 23; Gaz. vol. 166; p. 982.
Canned vegetables. The Esterman, Verkamp, Murphy Co. No. 82,142; June 6; Gaz. vol. 167; p. 237.
Canned vegetables. G. Johnson. No. 82,332; June 20; Gaz. vol. 167; p. 758.
Canned vegetables. G. Johnson. No. 82,520; July 4; Gaz. vol. 168; p. 245.
Canned vegetables. Big Stone Canning Company. No. 82,751; July 25; Gaz. vol. 168; p. 1027.
Canned vegetables. The Colt and Dixon Packing and Manufacturing Company of Frederick Maryland. No. 83,817; Oct. 17; Gaz. vol. 171; p. 739.
Canned vegetables. Scioto Canning Company. No. 84,134; Nov. 7; Gaz. vol. 172; p. 257.
Canned vegetables and pork and beans. C. E. Sears & Company. No. 83,692; Oct. 3; Gaz. vol. 171; p. 210.
Canned vegetables and sauer-kraut. Big Stone Canning Company. No. 83,470; Sept. 19; Gaz. vol. 170; p. 699.
Canned vegetables, pickles, and condiments. The J. S. Gedney Pickle Company. No. 84,226; Nov. 21; Gaz. vol. 172; p. 817.
Canoes, row, hunting, and pleasure boats. L. F. Kennedy. No. 82,895; Aug. 1; Gaz. vol. 169; p. 200.
Caps. Charles S. Merton & Co. No. 83,174; Aug. 22; Gaz. vol. 169; p. 940.
Capsules. G. Pohl. No. 83,687; Oct. 3; Gaz. vol. 171; p. 210.
Capsules, pills, and medicated jujubes. F. W. Warrick. No. 83,874; Oct. 17; Gaz. vol. 171; p. 741.
Car bolsters, Railway-. Simplex Railway Appliance Company. No. 81,752; May 2; Gaz. vol. 166; p. 247.
Car brakes, Railway-. G. S. Ackley. No. 80,694; Jan. 24; Gaz. vol. 162; p. 995.
Car, wagon, carriage, &c., steps. The Q M S Co. No. 81,547; Apr. 18; Gaz. vol. 165; p. 726.
Car-wheels. National Car Wheel Company. No. 183,764; Oct. 10; Gaz. vol. 171; p. 478.
Caramels and cocoanut creams. Mazetta Manufacturing Company. No. 81,280; Mar. 21; Gaz. vol. 164; p. 736.
Carbid, Calcium. Union Carbide Company. No. 83,615; Sept. 26; Gaz. vol. 170; p. 925.
Carbon-decomposer and an antifreezing compound. The R. M. Hollingshead Co. No. 82,232; June 13; Gaz. vol. 167; p. 510.
Carbon gas-black. Imperial Oil & Gas Products Co. No. 81,008; Feb. 21; Gaz. vol. 163; p. 724.
Carbureters. Variable Power Gas Engine Co. No. 81,561; Apr. 18; Gaz. vol. 165; p. 727.

Alphabetical list of trade-marks—Continued.

Carbureters. F. Baverey. No. 81,845; May 16; Gaz. vol. 166; p. 747.
Carbureting apparatus. "Favorit" Vergasergesellschaft m. b. H. No. 84,476; Dec. 19; Gaz. vol. 173; p. 858.
Cards, booklets, leaflets, wedding-invitations, and valentines. E. D. Chase. No. 83,141; Aug. 22; Gaz. vol. 169; p. 939.
Cards, Motto-. Morris & Bendien. No. 83,761; Oct. 10; Gaz. vol. 171; p. 478.
Cards, Playing-. Standard Playing Card Co. No. 81,366; Mar. 28; Gaz. vol. 164; p. 972.
Cards, Playing-. D. Morrison. No. 82,623; July 11; Gaz. vol. 168; p. 521.
Carpet-sweepers. Bissell Carpet Sweeper Company. Nos. 80,976–82; Feb. 21; Gaz. vol. 163; p. 723.
Carpets. Cochrane Manufacturing Company. No. 81,675; May 2; Gaz. vol. 166; p. 245.
Carpets. A. Morton & Co. No. 83,931; Oct. 24; Gaz. vol. 171; p. 980.
Carpets, Woven. Hardwick & Magee Co. No. 83,578; Sept. 26; Gaz. vol. 170; p. 924.
Cartons and boxes. Salant & Salant. No. 84,683; Dec. 26; Gaz. vol. 173; p. 1076.
Cartridges. U. S. Cartridge Co. Nos. 83,450–1; Sept. 12; Gaz. vol. 170; p. 479.
Cash-registers. Union Computing Machine Co. No. 84,701; Dec. 26; Gaz. vol. 173; p. 1077.
Casket handles and ornaments. A. M. Holstein. No. 83,911; Oct. 24; Gaz. vol. 171; p. 980.
Casters, Furniture-. Diamond Steel Truck Co. No. 80,582; Jan. 10; Gaz. vol. 162; p. 533.
Castings, Manganese-steel. Edgar Allen American Manganese Steel Company. No. 84,068; Nov. 7; Gaz. vol. 172; p. 255.
Catalogues, Magazine-. American News Company. No. 82,854; Aug. 1; Gaz. vol. 169; p. 199.
Catamenial bandages and supports. M. M. Béchoff *née* Netter. No. 82,559; July 11; Gaz. vol. 168; p. 519.
Cathartic tablet. M. F. Schlesinger. No. 80,874; Feb. 7; Gaz. vol. 163; p. 228.
Catsup, mustard, and flavoring extracts, Tomato. W. C. Brate. No. 80,890; Feb. 14; Gaz. vol. 163; p. 477.
Cement, Adhesive. R. S. Pettet. No. 84,037; Oct. 31; Gaz. vol. 171; p. 1254.
Cement and concrete structures, Composition to be applied to. J. M. Rauhoff. No. 83,943; Oct. 24; Gaz. vol. 171; p. 980.
Cement, Asphaltic. El-Oso Asphalt Company. No. 84,473; Dec. 19; Gaz. vol. 173; p. 857.
Cement, Composition for waterproofing. R. Claus. No. 80,574; Jan. 10; Gaz. vol. 162; p. 533.
Cement flooring, Composition. F. Hickok. No. 81,461; Apr. 11; Gaz. vol. 165; p. 470.
Cement plastic flooring material and blocks or tiles. P. F. Apfel. No. 80,695; Jan. 24; Gaz. vol. 162; p. 995.
Cement, Portland. Blanc Stainless Cement Company. No. 82,132; June 6; Gaz. vol. 167; p. 237.
Cement, Portland. Peerless Portland Cement Company. No. 84,519; Dec. 19; Gaz. vol. 173; p. 859.
Cements, Adhesive. H. I. Focht. No. 80,588; Jan. 10; Gaz. vol. 162; p. 533.
Cements, Bituminous. Peoples Municipal and Highway Paving Company. No. 84,036; Oct. 31; Gaz. vol. 171; p. 1254.
Centrifugal machines or centrifuges for scientific analysis. Bausch & Lomb Optical Co. No. 82,749; July 25; Gaz. vol. 168; p. 1027.
Chafing-dishes, cooking utensils, &c. New York Stamping Company. No. 84,253; Nov. 21; Gaz. vol. 172; p. 818.
Chains and chain-links, Metallic. Taylor Iron & Steel Co. No. 81,926; May 16; Gaz. vol. 166; p. 749.
Chains, Antiskid-. Atlas Chain Company. No. 82,953; Aug. 8; Gaz. vol. 169; p. 445.
Chains, Antiskid-. Atlas Chain Company. No. 83,209; Aug. 29; Gaz. vol. 169; p. 1179.
Chains, Drive, power, and conveyer. Chain Belt Company. No. 84,211; Nov. 21; Gaz. vol. 172; p. 817.
Chains, Iron. Columbus Chain Company. No. 81,856; May 16; Gaz. vol. 166; p. 747.
Chains, Iron and steel. Standard Chain Co. No. 82,374; June 20; Gaz. vol. 167; p. 759.
Chains, Iron and steel. Standard Chain Co. No. 83,020; Aug. 8; Gaz. vol. 169; p. 447.
Chairs, cots, litters, stands, &c. Gold Medal Camp Furniture Manufacturing Co. No. 80,776; Jan. 31; Gaz. vol. 162; p. 1179.
Chairs, Portable high. Cherub Portable High Chair Co. No. 82,573; July 11; Gaz. vol. 168; p. 519.
Chamois. D. Davis. No. 83,396; Sept. 12; Gaz. vol. 170; p. 477.
Chandeliers, lamp brackets and pendents. Brandt-Dent Company. No. 82,754; July 25; Gaz. vol. 168; p. 1027.
Charms, bracelets, precious-metal hat-pins, &c. Bliss Brothers Company. No. 81,380; Apr. 4; Gaz. vol. 165; p. 237.
Cheese. L. W. Heil & Zonen. Nos. 81,270–1; Mar. 21; Gaz. vol. 164; p. 736.
Cheese. Meierei Heinrichsthal Albert Linke. No. 83,163; Aug. 22; Gaz. vol. 169; p. 940.
Cheese. G. Smith & Sons. No. 83,521; Sept. 19; Gaz. vol. 170; p. 700.
Cheese. H. Rudolff. No. 84,531; Dec. 19; Gaz. vol. 173; p. 859.
Cheese and butter. Ice Cream and Butter Co. No. 83,159; Aug. 22; Gaz. vol. 169; p. 940.
Cheese, Camembert. A. Lenoble, Aîné. No. 80,930; Feb. 14; Gaz. vol. 163; p. 478.
Cheese, Cream-. Grove, Prager & Miller. No. 81,264; Mar. 21; Gaz. vol. 164; p. 735.
Cheese, Cream-. Cleveland Cream Cheese Co. No. 83,142; Aug. 22; Gaz. vol. 169; p. 939.
Cheese, Pimento and potted. J. L. Kraft & Bros. Company. No. 81,222; Mar. 14; Gaz. vol. 164; p. 504.
Cheese, Pressed. M. Eisenberg. No. 80,519; Jan. 3; Gaz. vol. 162; p. 265.
Cheese, Soft cured. Popper, Gray & Co. No. 82,171; June 6; Gaz. vol. 167; p. 238.
Chemical to be used for cleaning purposes. The Chloroxine Company. No. 82,049; May 30; Gaz. vol. 166; p. 1277.
Chemicals, Certain. E. Merck. No. 80,861; Feb. 7; Gaz. vol. 163; p. 228.
Chemicals, Certain. Badische Anilin- & Soda-Fabrik. No. 81,426; Apr. 11; Gaz. vol. 165; p. 469.
Chemicals, Certain. Oakford and Fahnestock. No. 82,630; July 11; Gaz. vol. 168; p. 521.
Chemicals, Certain. Badische Anilin- & Soda-Fabrik. Nos. 83,541–2; Sept. 26; Gaz. vol. 170; p. 923.
Chemicals, Certain named. Société des Forces Motrices et Usines de l'Arve. Nos. 82,371–2; June 20; Gaz. vol. 167; p. 759.
Chemically-prepared goods, Certain. Jos. Middleby, Jr., Inc. No. 84,655; Dec. 26; Gaz. vol. 173; p. 1075.
Cherry phosphate. J. Bump. No. 82,496; July 4; Gaz. vol. 168; p. 245.
Chickens, ducks, turkeys, and pigeons. H. E. Seaver. No. 84,414; Dec. 12; Gaz. vol. 173; p. 580.
Chicory. H. Franck Söhne. No. 83,863; Oct. 17; Gaz. vol. 171; p. 741.
Chinaware. Greenwood Pottery Co. No. 80,526; Jan. 3; Gaz. vol. 162; p. 265.
Chocolate. H. Maillard. No. 80,725; Jan. 24; Gaz. vol. 162; p. 996.
Chocolate. Suchard, S. A. No. 80,959; Feb. 14; Gaz. vol. 163; p. 479.
Chocolate, Milk-. Dilling & Company. No. 83,967; Oct. 24; Gaz. vol. 171; p. 981.
Chocolates. Dilling & Company. No. 81,794; May 9; Gaz. vol. 166; p. 507.
Chocolates. Potter Confectionery Company. No. 81,907; May 16; Gaz. vol. 166; p. 748.
Chocolates. Schuler Chocolate Factory. No. 82,114; May 30; Gaz. vol. 166; p. 1279.
Chocolates. B. D. Hoey Company. No. 82,328; June 20; Gaz. vol. 167; p. 758.
Chocolates. Stollwerck Brothers. No. 82,375; June 20; Gaz. vol. 167; p. 759.
Chocolates. Paul F. Beich Co. No. 83,810; Oct. 17; Gaz. vol. 171; p. 739.
Chocolates. J. Massarella. No. 84,116; Nov. 7; Gaz. vol. 172; p. 256.
Chocolates. A. M. Boex. No. 84,376; Dec. 12; Gaz. vol. 173; p. 579.
Chocolates and bonbons. Balduff Pure Candy Co. No. 80,634; Jan. 17; Gaz. vol. 162; p. 779.
Chocolates and bonbons. C. G. Guth. No. 81,697; May 2; Gaz. vol. 166; p. 246.
Chocolates and bonbons. C. G. Guth. No. 81,802; May 9; Gaz. vol. 166; p. 508.
Chocolates and bonbons. The Belle Mead Sweetsmakers. No. 82,199; June 13; Gaz. vol. 167; p. 509.
Christmas trees. J. G. Piper. No. 84,408; Dec. 12; Gaz. vol. 173; p. 580.
Chucks, machine-tool attachments, and face-plate jaws. The S. E. Horton Machine Company. No. 83,492; Sept. 19; Gaz. vol. 170; p. 699.
Churns and butter-workers, Combined. Owatonna Manufacturing Company. No. 83,180; Aug. 22; Gaz. vol. 169; p. 940.
Cigarette-papers. N. S. Hanoka & M. Mishoula. Nos. 80,528–9; Jan. 3; Gaz. vol. 162; p. 265.
Cigarette-papers. N. S. Hanoka & M. Mishoula. No. 81,075; Feb. 28; Gaz. vol. 163; p. 974.
Cigarettes. Erwin-Nadal Tobacco Company. No. 80,647; Jan. 17; Gaz. vol. 162; p. 779.
Cigarettes. H. Rheinboldt. No. 80,804; Jan. 31; Gaz. vol. 162; p. 1180.
Cigarettes. J. Millhoff & Co. No. 81,158; Mar. 7; Gaz. vol. 164; p. 246.
Cigarettes. Imperial Government of Japan. Nos. 81,713–21; May 2; Gaz. vol. 166; p. 246.
Cigarettes. Monopol Tobacco Works. No. 82,456; June 27; Gaz. vol. 167; p. 978.
Cigarettes and cigars. A. Kaufman. No. 82,894; Aug. 1; Gaz. vol. 169; p. 200.
Cigarettes manufactured from Turkish tobacco. Carreras and Marcianus Cigarettes Limited. No. 82,136; June 6; Gaz. vol. 167; p. 237.
Cigarettes, smoking-tobacco, and cigars. Teofani & Co. No. 82,923; Aug. 1; Gaz. vol. 169; p. 201.

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Cigars. B. Moreda y Deben. No. 80,514; Jan. 3; Gaz. vol. 162; 265.
Cigars. The Hemmeter Cigar Co. No. 80,594; Jan. 10; Gaz. vol. 162; p. 533.
Cigars. Waldorf-Astoria Segar Co. No. 80,690; Jan. 17; Gaz. vol. 162; p. 780.
Cigars. L. Newburger & Bro. No. 80,794; Jan. 31; Gaz. vol. 162; p. 1180.
Cigars. Cuesta Rey & Co. No. 80,803; Jan. 31; Gaz. vol. 162; p. 1180.
Cigars. J. C. Newman. No. 80,937; Feb. 14; Gaz. vol. 163; p. 478.
Cigars. Wm. B. Ricker & Son Company. No. 80,953; Feb. 14; Gaz. vol. 163; p. 479.
Cigars. E. H. Gato Cigar Company. No. 80,998; Feb. 21; Gaz. vol. 163; p. 724.
Cigars. Compañia General de Tabacos de Filipinas. No. 81,128; Mar. 7; Gaz. vol. 164; p. 245.
Cigars. The Hemmeter Cigar Co. No. 81,146; Mar. 7; Gaz. vol. 164; p. 246.
Cigars. Key West Cigar Factory. No. 81,221; Mar. 14; Gaz. vol. 164; p. 503.
Cigars. H. T. Offterdinger. No. 81,291; Mar. 21; Gaz. vol. 164; p. 736.
Cigars. E. H. Gato Cigar Company. No. 81,516; Apr. 18; Gaz. vol. 165; p. 725.
Cigars. The L. C. Nicholson Co. No. 81,542; Apr. 18; Gaz. vol. 165; p. 726.
Cigars. E. A. Kline & Co. No. 81,810; May 9; Gaz. vol. 166; p. 508.
Cigars. J. F. Wilcox & Company. No. 81,837; May 9; Gaz. vol. 166; p. 509.
Cigars. G. B. Greeson. No. 82,077; May 30; Gaz. vol. 166; p. 1278.
Cigars. Jaynes Drug Company. No. 82,153; June 6; Gaz. vol. 167; p. 237.
Cigars. E. H. Gato Cigar Company. No. 82,320; June 20; Gaz. vol. 167; p. 758.
Cigars. J. F. Wilcox & Company. Nos. 82,390–1; June 20; Gaz. vol. 167; p. 760.
Cigars. Allen R. Cressman's Sons. No. 82,425; June 27; Gaz. vol. 167; p. 978.
Cigars. G. W. Van Slyke & Horton. No. 82,538; July 4; Gaz. vol. 168; p. 246.
Cigars. A. Roig & Langsdorf. No. 82,641; July 11; Gaz. vol. 168; p. 521.
Cigars. J. C. Newman. No. 82,817; July 25; Gaz. vol. 168; p. 1029.
Cigars. Gustav A. Moebs & Co. No. 82,906; Aug. 1; Gaz. vol. 169; p. 200.
Cigars. J. F. Wilcox & Company. No. 82,945; Aug. 1; Gaz. vol. 169; p. 201.
Cigars. Gordon Cigar & Cheroot Co. No. 83,064; Aug. 15; Gaz. vol. 169; p. 697.
Cigars. H. Fendrich. No. 83,149; Aug. 22; Gaz. vol. 169; p. 939.
Cigars. Grinsfelder Company. Nos. 83,152–3; Aug. 22; Gaz. vol. 169; p. 940.
Cigars. Franklin MacVeagh & Co. No. 83,420; Sept. 12; Gaz. vol. 170; p. 478.
Cigars. G. Pisipia & Co. No. 83,434; Sept. 12; Gaz. vol. 170; p. 478.
Cigars. Wm. A. Stickney Cigar Co. No. 83,446; Sept. 12; Gaz. vol. 170; p. 479.
Cigars. J. A. Dohner; G. O. Rains, guardian. No. 83,626; Sept. 26; Gaz. vol. 170; p. 925.
Cigars. Saeger & Sons. No. 84,193; Nov. 14; Gaz. vol. 172; p. 546.
Cigars. W. Boucher & Son. No. 84,360; Dec. 5; Gaz. vol. 173; p. 283.
Cigars. Germann and Company. Nos. 84,386–91; Dec. 12; Gaz. vol. 173; p. 579.
Cigars and stogies. Weideman Company. No. 80,625; Jan. 10; Gaz. vol. 162; p. 534.
Cigars and stogies. A. Epstein. No. 80,771; Jan. 31; Gaz. vol. 162; p. 1179.
Cigars and tobacco. Leschke & Pletcher. No. 84,646; Dec. 26; Gaz. vol. 173; p. 1075.
Cigars and tobacco, Little. The American Tobacco Co. No. 84,205; Nov. 21; Gaz. vol. 172; p. 817.
Cigars, cheroots, and cigarettes. W. T. Edwards. No. 80,713; Jan. 24; Gaz. vol. 162; p. 995.
Cigars, cheroots, and little cigars. Landfield & Steele. No. 80,928; Feb. 14; Gaz. vol. 163; p. 478.
Cigars, cheroots, cigarettes, and tobacco. F. T. Wise Cigar Company. No. 82,191; June 6; Gaz. vol. 167; p. 238.
Cigars, cigarettes, and smoking-tobacco. Calixto Lopez & Company. No. 84,402; Dec. 12; Gaz. vol. 173; p. 579.
Cigars, cigarettes, and tobacco. Calixto Lopez & Company. Nos. 83,418–19; Sept. 12; Gaz. vol. 170; p. 478.
Cigars, cigarettes, tobacco, and snuff. J. Garbáty-Rosenthal, Cigaretten-Fabrik J. Garbáty. No. 82,428; June 27; Gaz. vol. 167; p. 978.
Cigars, stogies, cheroots, cigarettes, and tobacco. C. Sether. No. 83,186; Aug. 22; Gaz. vol. 169; p. 941.
Citron and cocoanut. The Hills Brothers Company. No. 83,837; Oct. 17; Gaz. vol. 171; p. 740.
Clarets. Cruse & Fils Freres. No. 82,873; Aug. 1; Gaz. vol. 169; p. 199.
Clarets and sauternes. Cruse & Fils Freres. No. 82,872; Aug. 1; Gaz. vol. 169; p. 199.
Cleaner and polish, Paint and varnish. Lacko Specialty Company. No. 84,011; Oct. 31; Gaz. vol. 171; p. 1254.
Cleaner for wall-paper. Climax Cleaner & Cleveland Paste Co. No. 83,987; Oct. 31; Gaz. vol. 171; p. 1253.
Cleaner for wall-paper, glass, porcelain, &c. The Myrlite Company of America. No. 84,507; Dec. 19; Gaz. vol. 173; p. 858.
Cleaner, Vacuum-. T. Deaderick. No. 82,580; July 11; Gaz. vol. 168; p. 520.
Cleaners and generators, Vacuum. Water Power Vacuum Cleaner Company. No. 84,556; Dec. 19; Gaz. vol. 173; p. 860.
Cleaners, Vacuum-. Steam Appliance Manufacturing Co. No. 81,921; May 16; Gaz. vol. 166; p. 749.
Cleaners, Vacuum-. Keller Manufacturing Company. No. 82,242; June 13; Gaz. vol. 167; p. 510.
Cleaners, Vacuum-. The Cyclone Vacuum Cleaner Co. No. 82,308; June 20; Gaz. vol. 167; p. 757.
Cleaners, Vacuum-. The United Electric Company. No. 82,847; July 25; Gaz. vol. 168; p. 1030.
Cleaners, Vacuum-. Boston Pneumatic Action Company. No. 83,132; Aug. 22; Gaz. vol. 169; p. 939.
Cleaners, Vacuum-. Pneuvac Company. Nos. 83,275–6; Aug. 29; Gaz. vol. 169; p. 1181.
Cleaners, Vacuum-. The Hugro Manufacturing Co. No. 83,493; Sept. 19; Gaz. vol. 170; p. 699.
Cleaning and bleaching preparation. George A. Kelly Company. No. 84,321; Nov. 28; Gaz. vol. 172; p. 1085.
Cleaning and polishing cloths. Sanitary Rag Co. No. 82,647; July 11; Gaz. vol. 168; p. 522.
Cleaning and polishing preparation. R. M. Hollingshead Co. No. 83,251; Aug. 29; Gaz. vol. 169; p. 1180.
Cleaning and polishing preparation. J. W. Johnson. No. 83,260; Aug. 29; Gaz. vol. 169; p. 1180.
Cleaning apparatus, Vacuum. American Radiator Company. No. 83,205; Aug. 29; Gaz. vol. 169; p. 1179.
Cleaning clothing, Chemical compound for. E. A. Barrier. No. 81,119; Mar. 7; Gaz. vol. 164; p. 245.
Cleaning fluids. Karith Chemical Company. No. 84,492; Dec. 19; Gaz. vol. 173; p. 858.
Cleaning-machines, Vacuum. The Perry Manufacturing Company. No. 80,871; Feb. 7; Gaz. vol. 163; p. 228.
Cleaning-machines, Vacuum. Vortex Vacuum Co. No. 82,661; July 11; Gaz. vol. 168; p. 522.
Cleaning-machines, Vacuum. The Regina Company. No. 83,944; Oct. 24; Gaz. vol. 171; p. 980.
Cleaning or polishing preparation. Ronuk, Limited. No. 81,360; Mar. 28; Gaz. vol. 164; p. 972.
Cleaning pads, Cloth-. B. L. Williams. No. 80,563; Jan. 3; Gaz. vol. 162; 266.
Cleaning preparation. Burckhardt & Company. No. 81,430; Apr. 11; Gaz. vol. 165; p. 469.
Cleaning preparation. Bobrick Chemical Co. No. 82,957; Aug. 8; Gaz. vol. 169; p. 445.
Cleaning preparation for polished metal, &c. Argento Manufacturing Syndicate. No. 84,449; Dec. 19; Gaz. vol. 173; p. 857.
Cleaning straw hats, Preparation for. M. Queisner. No. 80,618; Jan. 10; Gaz. vol. 162; p. 534.
Cleansing and scouring the hands, &c., Compound for. Nickel Plate Stove Polish Co. No. 81,023; Feb. 21; Gaz. vol. 163; p. 724.
Cleansing compound, Granulated chemical. Oakley Chemical Co. No. 80,673; Jan. 17; Gaz. vol. 162; p. 780.
Cleansing-powder and soap. W. H. Hayward. No. 82,437; June 27; Gaz. vol. 167; p. 978.
Cloaks and outer suits, Ladies'. L. Goldstein. No. 82,224; June 13; Gaz. vol. 167; p. 510.
Cloaks, dresses, and coats. H. Goldwater. No. 81,873; May 16; Gaz. vol. 166; p. 747.
Cloaks, outer suits, and skirts. L. F. Bowman & Co. No. 83,203; Aug. 29; Gaz. vol. 169; p. 1179.
Clocks, Alarm-. Marshall-Wells Hardware Company. No. 80,539; Jan. 3; Gaz. vol. 162; p. 266.
Clocks and watches. The Western Clock Mfg. Co. No. 80,627; Jan. 10; Gaz. vol. 162; p. 534.
Clocks and watches. The Western Clock Manufacturing Company. No. 83,877; Oct. 17; Gaz. vol. 171; p. 741.
Clocks, watches, and parts thereof. Vereinigten Uhrenfabriken von Gebrüder Junghans & Thomas Haller A-G. No. 82,660; July 11; Gaz. vol. 168; p. 522.
Clocks, watches, clockworks, and parts thereof. Vereinigten Uhrenfabriken von Gebrüder Junghans & Thomas Haller A-G. No. 83,623; Sept. 26; Gaz. vol. 170; p. 925.
Closet tanks and seats. Century Sanitary Manufacturing Company. No. 81,855; May 16; Gaz. vol. 166; p. 747.
Closets, Dry-. C. F. Merriman. No. 83,504; Sept. 19; Gaz. vol. 170; p. 700.
Cloth stamped to be embroidered. Kemp, Lundberg & Beatley. No. 81,341; Mar. 28; Gaz. vol. 164; p. 971.
Clothing. Wallace, Scott & Co. No. 81,040; Feb. 21; Gaz. vol. 163; p. 725.
Clothing and house-coats, Sporting. Alfred Nelson Company. No. 83,936; Oct. 24; Gaz. vol. 171; p. 980.
Clothing, Boys' outer. Becker, Mayer & Co. No. 83,211; Aug. 29; Gaz. vol. 169; p. 1179.
Clothing, Certain. Salant & Salant. No. 80,547; Jan. 3; Gaz. vol. 162; p. 266.
Clothing, Certain. B. Parker. No. 80,614; Jan. 10; Gaz. vol. 162; p. 534.

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Clothing, Certain. Burch, Bailey & Co. No. 80,891; Feb. 14; Gaz. vol. 163; p. 377.
Clothing, Certain. A. D. Richey. No. 80,951; Feb. 14; Gaz. vol. 163; p. 479.
Clothing, Certain. G. B. Williams Company. No. 81,422; Apr. 4; Gaz. vol. 165; p. 238.
Clothing, Certain. The Jno. Gerber Co. No. 81,798; May 9; Gaz. vol. 166; p. 507.
Clothing, Certain. The Gem Shirt Company. No. 82,689; July 18; Gaz. vol. 168; p. 783.
Clothing, Certain. Wilson Brothers. No. 82,850; July 25; Gaz. vol. 168; p. 1030.
Clothing, Certain. David Bros. No. 82,874; Aug. 1; Gaz. vol. 169; p. 199.
Clothing, Certain. C. Commichau & Co. No. 82,964; Aug. 8; Gaz. vol. 169; p. 445.
Clothing, Certain. William Hollins & Co. No. 83,068; Aug. 15; Gaz. vol. 169; p. 697.
Clothing, Certain. Spirella Company. No. 83,099; Aug. 15; Gaz. vol. 169; p. 698.
Clothing, Certain. Gerretson Company. No. 83,243; Aug. 29; Gaz. vol. 169; p. 1180.
Clothing, Certain. Gurnsey B. Williams Company. No. 84,151; Nov. 7; Gaz. vol. 172; p. 257.
Clothing, Infants'. M. P. Offutt. No. 80,796; Jan. 31; Gaz. vol. 162; p. 1180.
Clothing, Men's and boys'. Harris-Lipsitz Company. No. 80,917; Feb. 14; Gaz. vol. 163; p. 478.
Clothing, Men's and boys'. W. R. Manufacturing Company. No. 84,555; Dec. 19; Gaz. vol. 173; p. 860.
Clothing, Women's, misses', and children's. R. Lowenbaum Manufacturing Company. No. 84,501; Dec. 19; Gaz. vol. 173; p. 858.
Clover-hulling machine. The Aultman & Taylor Machinery Company. No. 84,579; Dec. 26; Gaz. vol. 173; p. 1073.
Coal. The Anderson-Shaffer Company. No. 80,885; Feb. 14; Gaz. vol. 163; p. 477.
Coal. Beaver Pond Coal Company. No. 80,972; Feb. 21; Gaz. vol. 163; p. 723.
Coal. Sycamore Coal Company. No. 82,922; Aug. 1; Gaz. vol. 169; p. 201.
Coal. Sycamore Coal Company. No. 83,024; Aug. 8; Gaz. vol. 169; p. 447.
Coal. City Fuel Company. No. 83,224; Aug. 29; Gaz. vol. 169; p. 1179.
Coal. Omaha Lumber & Coal Company. No. 83,273; Aug. 29; Gaz. vol. 169; p. 1181.
Coal. McAlester-Edwards Coal Company. No. 83,423; Sept. 12; Gaz. vol. 170; p. 478.
Coal. Montana Coal and Iron Co. No. 83,593; Sept. 26; Gaz. vol. 170; p. 924.
Coaster-wagons. A. M. Bollinger. No. 80,639; Jan. 17; Gaz. vol. 162; p. 779.
Coats, cloaks, capes, &c. The Salt's Textile Manufacturing Company. No. 80,548; Jan. 3; Gaz. vol 162; p. 266.
Coats, pantaloons, and vests, Suits consisting of. Siegel Brothers & Goodman. No. 81,918; May 16; Gaz. vol. 166; p. 749.
Coats, pants, and vests, Boys'. Brill Brothers. No. 80,512; Jan. 3; Gaz. vol. 162; p. 265.
Coats, Sporting-. Alfred Nelson Company. No. 84,511; Dec. 19; Gaz. vol. 173; p. 859.
Coats, suits, capes, and dresses, Ladies'. Crown Embroidery Works. No. 82,764; July 25; Gaz. vol. 168; p. 1027.
Coats, vests, and pantaloons. American Clothing Manufacturing Company. No. 81,567; Apr. 25; Gaz. vol. 165; p. 967.
Coats, vests, and trousers. Popular Dry Goods Co. No. 82,257; June 13; Gaz. vol. 167; p. 511.
Coats, vests, trousers, and overcoats. Riverside Tailoring Company. No. 83,096; Aug. 15; Gaz. vol. 169; p. 698.
Coats, vests, trousers, and overcoats. E. Baker. No 83,315; Sept. 5; Gaz. vol. 170; p. 239.
Coats, vests, trousers, and overcoats. J. Goldsmith. No. 83,904; Oct. 24; Gaz. vol. 171; p. 979.
Coats, Waterproof. C. Kenyon Co. No. 82,002; May 23; Gaz. vol. 166; p. 982.
Cocktails and egg-nog. J. H. Friedenwald & Company. No. 82,068; May 30; Gaz. vol. 166; p. 1277.
Cocoa. J. G. McDonald Chocolate Company. No. 81,088; Feb. 28; Gaz. vol. 163; p. 974.
Cocoa. H. Hamstra & Co. No. 83,248; Aug. 29; Gaz. vol. 169; p. 1180.
Cocoa and chocolate with milk. Nestlé & Anglo Swiss Condensed Milk Co. No. 82,462; June 27; Gaz. vol. 167; p. 979.
Cocoa, chocolate, and cocoa butter. Internationale Cacaofabrieken. No. 83,257; Aug. 29; Gaz. vol. 169; p. 1180.
Cocoanut, Shredded. The Franklin Baker Company. No. 83,827; Oct. 17; Gaz. vol. 171; p. 739.
Codfish and salt mackerel. Gorton-Pew Fisheries Company. No. 82,225; June 13; Gaz. vol. 167; p. 510.
Coffee. Closset & Devers. Nos. 80,575–80; Jan. 10; Gaz. vol. 162; p. 533.
Coffee. Western Grocer Company. No. 80,628; Jan. 10; Gaz. vol. 162; p. 534.
Coffee. J. Bremond. No. 80,641; Jan. 17; Gaz. vol. 162; p. 779.
Coffee. E. B. Millar & Co. No. 80,667; Jan. 17; Gaz. vol. 162; p. 780.
Coffee. Closset & Devers. No. 80,762; Jan. 31; Gaz. vol. 162; p. 1179.
Coffee. E. B. Millar & Co. No. 81,402; Apr. 4; Gaz. vol. 165; p. 237.
Coffee. I. Newlin. No. 81,407; Apr. 4; Gaz. vol. 165; p. 238.
Coffee. Jas. H. Forbes Tea & Coffee Company. No. 81,450; Apr. 11; Gaz. vol. 165; p. 469.
Coffee. Granger & Co. Nos. 81,455–6; Apr. 11; Gaz. vol. 165; p. 470.
Coffee. Fletcher Coffee & Spice Co. No. 81,601; Apr. 25; Gaz. vol. 165; p. 968.
Coffee. C. A. Hadjopulo. No. 81,608; Apr. 25; Gaz. vol. 165; p. 968.
Coffee. The Consolidated Boat Store Company. No. 81,956; May 23; Gaz. vol. 166; p. 981.
Coffee. Halligan Coffee Co. No. 82,228; June 13; Gaz. vol. 167; p. 510.
Coffee. The Bour Company. No. 82,408; June 27; Gaz. vol. 167; p. 977.
Coffee. Goldberg, Bowen & Co. No. 82,690; July 18; Gaz. vol. 168; p. 783.
Coffee. Bour Company. No. 82,958; Aug. 8; Gaz. vol. 169; p. 445.
Coffee. J. Zinsmeister & Sons. No. 83,198; Aug. 22; Gaz. vol. 169; p. 941.
Coffee. Allen Brothers Company. No. 83,627; Oct. 3; Gaz. vol. 171; p. 209.
Coffee. Wm. M. Flanders Co. No. 83,826; Oct. 17; Gaz. vol. 171; p. 739.
Coffee. Jett & Wood Gro. Co. No. 83,842; Oct. 17; Gaz. vol. 171; p. 740.
Coffee. Norwine Coffee Company. No. 84,187; Nov. 14; Gaz. vol. 172; p. 546.
Coffee. Phillips & Sheedy. No. 84,254; Nov 21; Gaz. vol. 172; p. 818.
Coffee. William S. Scull Company. No. 84,686; Dec. 26; Gaz. vol. 173; p. 1075.
Coffee and canned fruits, vegetables, fish, and oysters. Boren-Stewart Company. No. 80,699; Jan. 24; Gaz. vol. 162; p. 995.
Coffee and chicory compound. Potter-Sloan O'Donohue Company. No. 82,638; July 11; Gaz. vol. 168; p. 521.
Coffee and tea. Phelps, Krag & Co. No. 81,741; May 2; Gaz. vol. 166; p. 247.
Coffee and tea, Blended. Asmus Brothers. No. 80,633; Jan. 17; Gaz. vol. 162; p. 779.
Coffee and tea, Blended. Western Grocer Company. No. 82,937; Aug. 1; Gaz. vol. 169; p. 201.
Coffee, Blended. Halligan Coffee Co. No. 81,001; Feb. 21; Gaz. vol. 163; p. 724.
Coffee, Blended. McFadden Coffee & Spice Co. No. 81,016; Feb. 21; Gaz. vol. 163; p. 724.
Coffee, Blended. Closset & Devers. No. 81,127; Mar. 7; Gaz. vol. 164; p. 245.
Coffee, Blended. R. W. Weir & Company. No. 81,185; Mar. 7; Gaz. vol. 164; p. 247.
Coffee, Blended. The C. F. Ware Coffee Company. No. 81,370; Mar. 28; Gaz. vol. 164; p. 972.
Coffee, Blended. The Great Atlantic and Pacific Tea Company. No. 81,800; May 9; Gaz. vol. 166; p. 508.
Coffee, Blended. The Climax Coffee & Baking Powder Company. No. 82,051; May 30; Gaz. vol. 166; p. 1277.
Coffee, Blended. Goldberg, Bowen & Co. No. 82,430; June 27; Gaz. vol. 167; p. 978.
Coffee, Blended. Fly & Hobson Company. No. 82,590; July 11; Gaz. vol. 168; p. 520.
Coffee, Blended. Bour Company. No. 82,753; July 25; Gaz. vol. 168; p. 1027.
Coffee, Blended. Woolson Spice Company. No. 82,823; July 25; Gaz. vol. 168; p. 1029.
Coffee, Blended. The Bour Company. No. 83,386; Sept. 12; Gaz. vol. 170; p. 477.
Coffee, Blended. William S. Scull Company. No. 83,693; Oct. 3; Gaz. vol. 171; p. 211.
Coffee, Blended. S. Zechnowitz. No. 83,705; Oct. 3; Gaz. vol. 171; p. 211.
Coffee, Blended. Black Hawk Coffee & Spice Co. No. 84,307; Nov. 28; Gaz. vol. 172; p. 1085.
Coffee, cereal, and chicory, Compound of. Fletcher & Wilson Coffee Co. No. 83,999; Oct. 31; Gaz. vol. 171; p. 1253.
Coffee, Imitation. L. Coltrin. No. 81,789; May 9; Gaz. vol. 166; p. 507.
Coffee, Imitation. W. H. Sharadin. No. 82,835; July 25; Gaz. vol. 168; p. 1029.
Coffee, Roasted. Green & De Laittre Company. No. 80,593; Jan. 10; Gaz. vol. 162; p. 533.
Coffee, Roasted. Nave-McCord Mercantile Company. No. 81,541; Apr. 18; Gaz. vol. 165; p. 726.
Coffee-settler. Crystal Gelatine Company. No. 83,640; Oct. 3; Gaz. vol. 171; p. 209.
Coffee, spices, and food-flavoring extracts. Jas, H. Forbes Tea & Coffee Company. No. 82,591; July 11; Gaz. vol. 168; p. 520.
Coffee, tea, spices, flavoring extract, &c. H. R. Hall Co. No. 82,227; June 13; Gaz. vol. 167; p. 510.
Coffee, tea, spices, flavoring extracts, &c. Korten Brothers Company. No. 81,811; May 9; Gaz. vol. 166; p. 508.
Coffees, Blended. McFadden Coffee & Spice Co. No. 82,527; July 4; Gaz. vol. 168; p. 246.

Alphabetical list of trade-marks—Continued.

Coffees, teas, and flavoring extracts. McFadden Coffee & Spice Co. No. 80,605; Jan. 10; Gaz. vol. 162; p. 534.
Coffees, teas, cocoa, fruit, &c. India Tea Company. No. 82,239; June 13; Gaz. vol. 167; p. 510.
Coiffures. Yvette Hair Goods Company. No. 84,154; Nov. 7; Gaz. vol. 172; p. 257.
Coin-receiver, Automatic. The National Thrift System Co. No. 83,083; Aug. 15; Gaz. vol. 169; p. 698.
Collar stiffeners and supports. Poulain & Steer. No. 81,295; Mar. 21; Gaz. vol. 164; p. 736.
Collar-supporters. J. W. Schloss & Co. No. 83,361; Sept. 5; Gaz. vol. 170; p. 240.
Collar-supporters. G. Keitel. No. 84,493; Dec. 19; Gaz. vol. 173; p. 858.
Collar supports, Lace-. "Tryune" Gesellschaft m. b. H. No. 82,483; June 27; Gaz. vol. 167; p. 979.
Collars, Textile. Tim & Co. No. 84,552; Dec. 19; Gaz. vol. 173; p. 860.
Coloring, Mortar-. Clinton Metallic Paint Company. No. 82,052; May 30; Gaz. vol. 166; p. 1277.
Colors, Flat. F. W. Devoe & C. T. Raynolds Co. No. 81,792; May 9; Gaz. vol. 166; p. 507.
Columns. J. L. Pease Co. No. 81,820; May 9; Gaz. vol. 166; p. 508.
Combs. Marshall Field & Company. No. 83,265; Aug. 29; Gaz. vol. 169; p. 1181.
Combs. The Arlington Company. No. 83,538; Sept. 26; Gaz. vol. 170; p. 923.
Combs, barrettes, collar and link buttons, buckles, &c. Feisenthal Bros. & Co. No. 82,314; June 20; Gaz. vol. 167; p. 758.
Combs, Toilet-. J. G. Higgins. No. 81,003; Feb. 21; Gaz. vol. 163; p. 724.
Combs, Toilet-. H. Buss. No. 83,388; Sept. 12; Gaz. vol. 170; p. 477.
Combs, Toilet-. Seeby Drug Company. No. 84,535; Dec. 19; Gaz. vol. 173; p. 859.
Comforts. The Pittsburgh Dry Goods Company. No. 82,821; July 25; Gaz. vol. 168; p. 1029.
Compasses, dividers, bow instruments, &c. H. P. Richter. No. 81,912; May 16; Gaz. vol. 166; p. 749.
Composition for destroying blasting-fumes. Globe Chemical Works. No. 82,786; July 25; Gaz. vol 168; p. 1028.
Compound for pulmonary affections, and an anodyne. Lanman & Kemp. No. 84,106; Nov. 7; Gaz. vol. 172; p. 256.
Compound for removing scorches, burns, and color-stains from wool and cotton. F. L. Alloway No. 82,742; July 25; Gaz. vol. 168; p. 1027.
Concrete-mixers and appliances for handling concrete. The Marsh Capron Manufacturing Company. No. 81,401; Apr. 4; Gaz. vol. 165; p. 237.
Concrete mixing, conveying, and distributing machines and parts thereof. William B. Hough Company. No. 81,878; May 16; Gaz. vol. 166; p. 748.
Concrete-reinforcing members, Metal devices for supporting and spacing. William B. Hough Company. No. 81,463; Apr. 11; Gaz. vol. 165; p. 470.
Concrete tiles. Commonwealth Roofing Company. No. 81,678; May 2; Gaz. vol. 166; p. 245.
Confection. Piedmont Candy Co. No. 83,508; Sept. 19; Gaz. vol. 170; p. 700.
Confection. L. R. Kanaga. No. 84,639; Dec. 26; Gaz. vol. 173; p. 1075.
Confection, Chocolate. Ambrosia Chocolate Company. No. 82,744; July 25; Gaz. vol. 168; p. 1027.
Confections, Chocolate. Heit-Miller-Lau Co. No. 83,067; Aug. 15; Gaz. vol. 169; p. 697.
Confectionery lozenges. J. P. Rademaker. No. 82,824; July 25; Gaz. vol. 168; p. 1029.
Construction material, Certain. Iroquois Door Co. No. 83,160; Aug. 22; Gaz. vol. 169; p. 940.
Construction materials, Certain. Wm. Cameron & Company. No. 81,588; Apr. 25; Gaz. vol. 165; p. 967.
Cooking utensils, kitchen and table ware. National Enameling & Stamping Co. No. 80,934; Feb. 14; Gaz. vol. 163; p. 478.
Coops, Chicken-. Yesterlaid Egg Farms Co. No. 80,939; Feb. 14; Gaz. vol. 163; p. 478.
Cordial. L. Bergonzi & Co. No. 83,041; Aug. 15; Gaz. vol. 169; p. 697.
Cordial or liqueur. Congregation of the Chartreux. No. 83,988; Oct. 31; Gaz. vol. 171; p. 1253.
Cordials. H. Kantorowicz. No. 83,338; Sept. 5; Gaz. vol. 170; p. 240.
Cordials. M. Bagger. No. 84,160; Nov. 14; Gaz. vol. 172; p. 545.
Cork, Composition of matter resembling. The Lenhart and Ingersoll Manufacturing Company. No. 81,223; Mar. 14; Gaz. vol. 164; p. 504.
Corks. Armstrong Cork Company. Nos. 84,358–9; Dec. 5; Gaz. vol. 173; p. 283.
Corn and bunion plasters, belladonna plasters, and sulfur candles. Aseptic Products Company. No. 84,206; Nov. 21; Gaz. vol. 172; p. 817.
Corn-flakes, Toasted. Yours Truly Company. No. 82,668; July 11; Gaz. vol. 168; p. 522.
Corn-starch. C. Morningstar & Co. No. 81,474; Apr. 11; Gaz. vol. 165; p. 470.
Corn-starch. The French Manufacturing Company. No. 81,602; Apr. 25; Gaz. vol. 165; p. 968.
Cornmeal. The Great Western Cereal Company. No. 81,523; Apr. 18; Gaz. vol. 165; p. 725.
Cornmeal. C. L. Plumb. No. 81,626; Apr. 25; Gaz. vol. 165; p. 968.
Cornmeal. The Heffner Milling Company. No. 82,513; July 4; Gaz. vol. 168; p. 245.
Cornmeal. The Heffner Milling Company. No. 83,834; Oct. 17; Gaz. vol. 171; p. 740.
Cornmeal and wheat-flour. Holt & Company. No. 81,993; May 23; Gaz. vol. 166; p. 982.
Corset stays and fasteners. Lange & Pohle. No. 82,095; May 30; Gaz. vol. 166; p. 1278.
Corsets. Madame Irène. No. 80,533; Jan. 3; Gaz. vol. 162; p. 265.
Corsets. Mme. Mariette Company. No. 80,604; Jan. 10; Gaz. vol. 162; p. 534.
Corsets. Birdsey-Somers Co. No. 80,698; Jan. 24; Gaz. vol. 162; p. 995.
Corsets. Kops Bros. No. 81,083; Feb. 28; Gaz. vol. 163; p. 974.
Corsets. Mme. Mariette Company. No. 81,155; Mar. 7; Gaz. vol. 164; p. 246.
Corsets. International Corset Company. No. 81,220; Mar. 14; Gaz. vol. 164; p. 503.
Corsets. John Wanamaker, New York. No. 81,418; Apr. 4; Gaz. vol. 165; p. 238.
Corsets. Harris Emery Company. No. 81,459; Apr. 11; Gaz. vol. 165; p. 470.
Corsets. Kops Bros. No. 81,613; Apr. 25; Gaz. vol. 165; p. 968.
Corsets. Connecticut Corset Company. No. 81,788; May 9; Gaz. vol. 166; p. 507.
Corsets. The Warner Brothers Company. No. 82,186; June 6; Gaz. vol. 167; p. 238.
Corsets. The Warner Bros. Co. No. 82,280; June 13; Gaz. vol. 167; p. 511.
Corsets. Jordan Marsh Company. No. 82,798; July 25; Gaz. vol. 168; p. 1028.
Corsets. Chas. A. Stevens & Bros. No. 84,545; Dec. 19; Gaz. vol. 173; p. 860.
Corsets and underwaists. Sears, Roebuck and Co. No. 80,740; Jan. 24; Gaz. vol. 162; p. 996.
Corsets, brassières, bust-supporters, and bustles. Benjamin & Johnes. No. 84,454; Dec 19; Gaz. vol. 173; p. 857.
Corsets, corset-waists, brassières, and underwaists. The Crown Corset Company. No. 81,594; Apr. 25; Gaz. vol. 165; p. 968.
Corsets, corset-waists, brassières, and underwaists. The H & W Company. No. 81,698; May 2; Gaz. vol. 166; p. 246.
Corundum, Re-fused. Manufacturers Corundum Company. No. 83,264; Aug. 29; Gaz. vol. 169; p. 1180.
Cotton and cotton and woolen cloth in the piece. Peters Manufacturing Co. No. 81,624; Apr. 25; Gaz. vol. 165; p. 968.
Cotton and linen piece goods. Trippe Barker & Company. No. 81,180; Mar. 7; Gaz. vol. 164; p. 246.
Cotton and linen piece goods. Trippe Barker & Company. No. 82,732; July 18; Gaz. vol. 168; p. 785.
Cotton bedspreads. Pittsburgh Dry Goods Company. No. 82,719; July 18; Gaz. vol. 168; p. 784.
Cotton dometts and flannels. Brogon Mills. No. 82,300; June 20; Gaz. vol. 167; p. 757.
Cotton dress and piece goods. Lorraine Manufacturing Company. No. 84,015; Oct. 31; Gaz. vol. 171; p. 1254.
Cotton duck and sheeting. The Putnam-Hooker Company. No. 83,770; Oct. 10; Gaz. vol. 171; p. 479.
Cotton flannels. Whittenton Manufacturing Co. No. 80,691; Jan. 17; Gaz. vol. 162; p. 780.
Cotton, linen, wool, silk, &c., piece goods. Sanger Brothers. No. 82,022; May 23; Gaz. vol. 166; p. 983.
Cotton piece goods. Franklin Mfg. Co. No. 80,520; Jan. 3; Gaz. vol. 162; p. 265.
Cotton piece goods. The Chas. A. Maish Co. No. 80,859; Feb. 7; Gaz. vol. 163; p. 228.
Cotton piece goods. G. Willis & Co. No. 80,914; Feb. 14; Gaz. vol. 163; p. 477.
Cotton piece goods. White Brothers. No. 81,186; Mar. 7; Gaz. vol. 164; p. 247.
Cotton piece goods. Otis Co. No. 81,227; Mar. 14; Gaz. vol. 164; p. 504.
Cotton piece goods. National Cloak & Suit Company. No. 81,284; Mar. 21; Gaz. vol. 164; p. 736.
Cotton piece goods. Berkeley Company. No. 81,428; Apr. 11; Gaz. vol. 165; p. 469.
Cotton piece goods. Lonsdale Company. Nos. 81,888–9; May 16; Gaz. vol. 166; p. 748.
Cotton piece goods. G. Willis & Co. No. 81,990; May 23; Gaz. vol. 166; p. 982.
Cotton piece goods. Chas. A. Maish Co. No. 82,007; May 23; Gaz. vol. 166; p. 983.
Cotton piece goods. Rice-Stix Dry Goods Company. No. 82,020; May 23; Gaz. vol. 166; p. 983.
Cotton piece goods. Berkeley Company. No. 82,042; May 30; Gaz. vol. 166; p. 1277.
Cotton piece goods. American Printing Company. No. 82,194; June 13; Gaz. vol. 167; p. 509.
Cotton piece goods. Hope Company. No. 82,233; June 13; Gaz. vol. 167; p. 510.

Alphabetical list of trade-marks—Continued.

Cotton piece goods. W. Simpson Sons & Co. No. 82,265; June 13; Gaz. vol. 167; p. 511.
Cotton piece goods. Blackstone Mfg. Company. No. 82,293; June 20; Gaz. vol. 167; p. 757.
Cotton piece goods. Lonsdale Company. No. 82,339; June 20; Gaz. vol. 167; p. 758.
Cotton piece goods. Wilmerding & Bisset. No. 82,392; June 20; Gaz. vol. 167; p. 760.
Cotton piece goods. Rice-Stix Dry Goods Company. No. 82,720; July 18; Gaz. vol. 168; p. 784.
Cotton piece goods. Lonsdale Company. No. 82,900; Aug. 1; Gaz. vol. 169; p. 200.
Cotton piece goods. A. L. Reid & Co. No. 83,095; Aug. 15; Gaz. vol. 169; p. 698.
Cotton piece goods. Merrimack Manufacturing Co. No. 83,173; Aug. 22; Gaz. vol. 169; p. 940.
Cotton piece goods. William R. Moore Dry Goods Company. No. 83,342; Sept. 5; Gaz. vol. 170; p. 240.
Cotton piece goods. Merrimack Manufacturing Company. No. 83,426; Sept. 12; Gaz. vol. 170; p. 478.
Cotton piece goods. Rice-Stix Dry Goods Company. No. 84,045; Oct. 31; Gaz. vol. 171; p. 1255.
Cotton piece goods. Bedford Mills. No. 84,453; Dec. 19; Gaz. vol. 173; p. 857.
Cotton piece goods. Massachusetts Cotton Mills. No. 84,503; Dec. 19; Gaz. vol. 173; p. 858.
Cotton piece goods and cotton and silk or all-silk piece goods. The Windsor Print Works. No. 82,489; June 27; Gaz. vol. 167; p. 979.
Cotton piece goods, Bleached. Carson, Pirie, Scott & Co. No. 81,052; Feb. 28; Gaz. vol. 163; p. 973.
Cotton piece goods, Printed. William R. Moore Dry Goods Company. No. 83,760; Oct. 10; Gaz. vol. 171; p. 478.
Cotton plaids. Neuss, Hesslein & Co. No. 84,512; Dec. 19; Gaz. vol. 173; p. 859.
Cotton, silk, wool, &c., piece goods. Baltimore Bargain House. No. 81,050; Feb. 28; Gaz. vol. 163; p. 973.
Cotton, wool, &c., piece goods. W. Simpson, Sons & Co. No. 82,920; Aug. 1; Gaz. vol. 169; p. 201.
Cough-drops. W. H. Graner. No. 80,524; Jan. 3; Gaz. vol. 162; p. 265.
Cough-drops. S. B. Curry. No. 80,710; Jan. 24; Gaz. vol. 162; p. 995.
Cough-drops. Dilling & Company. No. 82,582; July 11; Gaz. vol. 168; p. 520.
Counter-irritant. J. H. Green. No. 83,645; Oct. 3; Gaz. vol. 171; p. 209.
Crackers. Bishop & Company. No. 83,129; Aug. 22; Gaz. vol. 169; p. 939.
Crackers. Bishop & Company. No. 83,889; Oct. 24; Gaz. vol. 171; p. 979.
Crackers, cakes, and candy. Johnson Biscuit Company. No. 81,995; May 23; Gaz. vol. 166; p. 982.
Cravats. I. Isaac. No. 84,489; Dec. 19; Gaz. vol. 173; p. 858.
Cravats and neckties. A. L. Eisenstaedt. No. 83,562; Sept. 26; Gaz. vol. 170; p. 923.
Cream and remedies for the treatment of certain diseases, Face-. McKinney Remedy Co. No. 83,341; Sept. 5; Gaz. vol. 170; p. 240.
Cream, Cold-. French Toilet Co. No. 81,389; Apr. 4; Gaz. vol. 165; p. 237.
Cream, Cold-. F. W. C. Ross. No. 82,642; July 11; Gaz. vol. 168; p. 521.
Cream, Dental. Healy & Bigelow. No. 83,579; Sept. 26; Gaz. vol. 170; p. 924.
Cream, Deodorizing. Wagner & Leech. No. 81,562; Apr. 18; Gaz. vol. 165; p. 727.
Cream, Face-. V. A. Smith. No. 82,266; June 13; Gaz. vol. 167; p. 511.
Cream, Face, hair-dressing, and shampoo. L. S. Swain. No. 82,653; July 11; Gaz. vol. 168; p. 522.
Cream, Facial. D'Or Company. No. 83,178; Aug. 22; Gaz. vol. 169; p. 940.
Cream, perfumery, and toilet water, Cold-. A. F. Wood. No. 83,880; Oct. 17; Gaz. vol. 171; p. 741.
Cream, talcum and face powder, Massage and toilet. Goodrich Drug Co. No. 82,597; July 11; Gaz. vol. 168; p. 520.
Cream, Toilet. American Druggists Syndicate. No. 81,661; May 2; Gaz. vol. 166; p. 245.
Cream, Toilet. E. M. Candow & Co. No. 81,852; May 16; Gaz. vol. 166; p. 747.
Cream, Toilet. Coffin Redington Co. No. 82,574; July 11; Gaz. vol. 168; p. 519.
Cream, Toilet. The Victoria Cream Co. No. 84,554; Dec. 19; Gaz. vol. 173; p. 860.
Cream, Toilet or massage. E. F. Shofner. No. 83,696; Oct. 3; Gaz. vol. 171; p. 211.
Cream, Tooth-. Grumme & Son. No. 82,789; July 25; Gaz. vol. 168; p. 1028.
Creams and waters and hair-tonics, Toilet. General Drug Company. No. 80,911; Feb. 14; Gaz. vol. 163; p. 477.
Creams, Facial. Barclay & Barclay. No. 81,242; Mar. 21; Gaz. vol. 164; p. 735.
Crochet-hooks, knitting pins and needles. C. J. Bates & Son. No. 82,558; July 11; Gaz. vol. 168; p. 519.
Crushing, disintegrating, &c., mills and parts of the same. E. H. Stroud. No. 83,022; Aug. 8; Gaz. vol. 169; p. 447.
Cultivators and parts thereof. Gale Manufacturing Company. No. 81,692; May 2; Gaz. vol. 166; p. 246.
Cultivators and parts thereof. Gale Manufacturing Company. No. 82,222; June 13; Gaz. vol. 167; p. 510.
Currants. The W. H. Marvin Company. Nos. 81,535–6; Apr. 18; Gaz. vol. 165; p. 726.
Currants. The W. H. Marvin Company. No. 81,538; Apr. 18; Gaz. vol. 165; p. 726.
Currants. The W. H. Marvin Company. No. 81,615; Apr. 25; Gaz. vol. 165; p. 968.
Curtain-fasteners. G. W. J. Murphy Co. No. 84,251; Nov. 21; Gaz. vol. 172; p. 818.
Curtain-rollers. The Curtain Supply Company. No. 81,679; May 2; Gaz. vol. 166; p. 245.
Cushions, pillows, and mattresses. The J. C. Hirschman Company. No. 82,327; June 20; Gaz. vol. 167; p. 758.
Cutlery. Rolka & Klein. Nos. 81,105–6; Feb. 28; Gaz. vol. 163; p. 974.
Cutlery and machinery, Certain. E. Krusius. No. 81,467; Apr. 11; Gaz. vol. 165; p. 470.
Cutlery and machines, Certain pocket and table. Folsom & Tillman. No. 81,690; May 2; Gaz. vol. 166; p. 246.
Cutlery and tools, Certain. The Thomas Mfg. Co. No. 84,350; Nov. 28; Gaz. vol. 172; p. 1086.
Cutlery, Certain. A. Kastor & Bros. No. 80,853; Feb. 7; Gaz. vol. 163; p. 227.
Cutlery, Certain named. Geo. Borgfeldt & Co. No. 84,077; Nov. 7; Gaz. vol. 172; p. 255.
Cutlery, machines, and tools, Certain. Needham, Veall & Tyzack. No. 84,660; Dec. 26; Gaz. vol. 173; p. 1076.
Dental alloy, gold and tin foil, and molding compound. Consolidated Dental Manufacturing Co. No. 82,576; July 11; Gaz. vol. 168; p. 519.
Dental alloys. S. S. White Dental Mfg. Co. No. 83,704; Oct. 3; Gaz. vol. 171; p. 211.
Dental and surgical instruments. Wilhelm Müller Fabrik zahnärztlicher Instrumente und Maschinen. No. 84,559; Dec. 19; Gaz. vol. 173; p. 860.
Dental castings, inlays, and crowns. T. D. Mayfield. No. 84,328; Nov. 28; Gaz. vol. 172; p. 1086.
Dental compounds used in casting dental molds. T. D. Mayfield. No. 84,329; Nov. 28; Gaz. vol. 172; p. 1086.
Dental disk mandrels, porte-polishers, &c. Morgan and Maxfield. No. 80,729; Jan. 24; Gaz. vol. 162; p. 996.
Dental, medical, and surgical appliances, Certain. Holton & Adams. No. 81,078; Feb. 28; Gaz. vol. 163; p. 974.
Dental molding material. K. Henning. Nos. 80,780–1; Jan. 31; Gaz. vol. 162; p. 1180.
Dental regulating appliances. The Meier Dental Manufacturing Company. No. 80,728; Jan. 24; Gaz. vol. 162; p. 996.
Dentifrices and remedies for certain diseases. Smith, Kline & French Company. No. 80,683; Jan. 17; Gaz. vol. 162; p. 780.
Dentifrices, Paste. H. C. Woodman. No. 84,153; Nov. 7; Gaz. vol. 172; p. 257.
Desks. E. Dubied & Cie. No. 84,610; Dec. 26; Gaz. vol. 173; p. 1074.
Detergent. California Compounding Corporation. Nos. 84,163–4; Nov. 14; Gaz. vol. 172; p. 545.
Detergents, Certain. United Drug Company. No. 80,880; Feb. 7; Gaz. vol. 163; p. 228.
Dietetic preparations. Bauer & Cie. No. 80,971; Feb. 21; Gaz. vol. 163; p. 723.
Discus. E. M. Burr. No. 84,590; Dec. 26; Gaz. vol. 173; p. 1073.
Dishes, China and earthenware. L. Straus & Sons. No. 82,275; June 13; Gaz. vol. 167; p. 511.
Disinfectant. Farbenfabriken of Elberfeld Company. No. 84,384; Dec. 12; Gaz. vol. 173; p. 579.
Disinfectant and deodorizer, Liquid. The Cresaseptic Company. No. 83,480; Sept. 19; Gaz. vol. 170; p. 699.
Disinfectant and vermin-exterminator. J. Silverstein. No. 84,345; Nov. 28; Gaz. vol. 172; p. 1086.
Disinfectant, deodorant, germicide, and insecticide. Rural Home Chemical Company. No. 80,622; Jan. 10; Gaz. vol. 162; p. 534.
Disinfectant germ-destroyer and deodorizer. S. Coleman. No. 84,311; Nov. 28; Gaz. vol. 172; p. 1085.
Disinfectants. N. H. Griffith. No. 81,801; May 9; Gaz. vol. 166; p. 508.
Disinfectants. S. Schlesinger. No. 83,777; Oct. 10; Gaz. vol. 171; p. 479.
Disinfectants. Frederick Disinfectant Co. No. 83,973; Oct. 24; Gaz. vol. 171; p. 981.
Display-fixtures. Multiplex Display Fixture Co. No. 83,345; Sept. 5; Gaz. vol. 170; p. 240.
Dolls. L. M. Scurlock. No. 81,552; Apr. 18; Gaz. vol. 165; p. 726.
Dolls. M. D. Nekarda. No. 82,999; Aug. 8; Gaz. vol. 169; p. 446.
Dolls. E. I. Horsman Co. No. 81,711; May 2; Gaz. vol. 166; p. 246.
Dolls. The A. Schoenhut Company. Nos. 82,178–9; June 6; Gaz. vol. 167; p. 238.
Dolls. M. D. Nekarda. No. 82,626; July 11; Gaz. vol. 168; p. 521.
Dolls. L. Wolf & Co. No. 83,302; Aug. 29; Gaz. vol. 169; p. 1182.

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Dolls. J. N. G. Singleton. No. 83,606; Sept. 26; Gaz. vol. 170; p. 925.
Dolls. A Steinhardt & Bro. No. 83,610; Sept. 26; Gaz. vol. 170; p. 925.
Dolls and their apparel. A. Steinhardt & Bro. No. 83,288; Aug. 29; Gaz. vol. 169; p. 1181.
Dolls, Animal. Samstag & Hilder Brothers. No. 80,873; Feb. 7; Gaz. vol. 163; p. 228.
Doors, window-sashes, and wainscoting. Conway Veneered Door and Mantel Company. No. 82,870; Aug. 1; Gaz. vol. 169; p. 199.
Dough mixing and molding machines, dough-dividers, &c. P. F. Carroll. No. 82,414; June 27; Gaz. vol. 167; p. 977.
Draftsmen's supplies. Eugene Dietzgen Company. No. 81,057; Feb. 28; Gaz. vol. 163; p. 973.
Drapery fabrics, Textile. Carson, Pirie, Scott & Co. No. 81,051; Feb. 28; Gaz. vol. 163; p. 973.
Dress-patterns. L. Lanners. No. 84,111; Nov. 7; Gaz. vol. 172; p. 256.
Dress-shields. Samstag & Hilder Brothers. No. 81,363; Mar. 28; Gaz. vol. 164; p. 972.
Dress-shields. The Omo Manufacturing Company. No. 83,352; Sept. 5; Gaz. vol. 170; p. 240.
Dress-shields. I. B. Kleinert Rubber Company. No. 84,495; Dec. 19; Gaz. vol. 173; p. 858.
Dress, shirt, and under waists, Ladies'. Matinee Waist Co. No. 82,245; June 13; Gaz. vol. 167; p. 510.
Dresses. Barmon Brothers. No. 82,862; Aug. 1; Gaz. vol. 169; p. 199.
Dresses, dress and shirt waists, wrappers, &c. Waldorf Manufacturing Company. No. 82,733; July 18; Gaz. vol. 168; p. 785.
Dresses, Infants', children's, and misses'. Cadillac Garment Manufacturing Co. No. 84,458; Dec. 19; Gaz. vol. 173; p. 857.
Drills for drilling slate, bone, rock-salt, &c. Scranton Electric Construction Co. No. 81,827; May 9; Gaz. vol. 166; p. 508.
Drills, Rock-. W. Lloyd. No. 83,075; Aug. 15; Gaz. vol. 169; p. 698.
Drills, sheetings, flannel, and cotton duck. Garrels & Börner. No. 83,242; Aug. 29; Gaz. vol. 169; p. 1180.
Drink, Cereal-food. The Genesee Pure Food Company. No. 82,879; Aug. 1; Gaz. vol. 169; p. 199.
Drink, Non-alcoholic. E. B. Hawk. No. 80,716; Jan. 24; Gaz. vol. 162; p. 995.
Drinks and natural aerated water, Certain soft. Water Delivery Company. No. 84,705; Dec. 26; Gaz. vol. 173; p. 1077.
Drinks, Fruit. Fritz Erle Gesellschaft mit beschränkter Haftung. No. 80,838; Feb. 7; Gaz. vol. 163; p. 227.
Drinks, Fruit. P. Hoppe. No. 83,157; Aug. 22; Gaz. vol. 169; p. 940.
Dumb and bar bells and ring-weights. A. Calvert. No. 83,814; Oct. 17; Gaz. vol. 171; p. 739.
Duplicating-machines and parts thereof. A. B. Dick Company. No. 81,205; Mar. 14; Gaz. vol. 164; p. 503.
Dusters, mops, brushes, &c. Parker Supply Co. No. 83,004; Aug. 8; Gaz. vol. 169; p. 446.
Dusting-cloths. Milton Chemical Co. No. 81,898; May 16; Gaz. vol. 166; p. 748.
Dyeing and printing preparation for textile fabrics. C. Bischoff & Co. No. 81,668; May 2; Gaz. vol. 166; p. 245.
Dyes. French Renovating Company. No. 81,866; May 16; Gaz. vol. 166; p. 747.
Dyes and dyestuffs. Cassella Color Company. No. 81,325; Mar. 28; Gaz. vol. 164; p. 971.
Dyes, Egg-. Paas Dye Company. Nos. 82,104–5; May 30; Gaz. vol. 166; p. 1278.
Dyestuffs. L. Givaudan. No. 81,868; May 16; Gaz. vol. 166; p. 747.
Dynamite. Independent Powder Company of Missouri. No. 83,414; Sept. 12; Gaz. vol. 170; p. 478.
Dynamite. H. H. Thomas. No. 83,448; Sept. 12; Gaz. vol. 170; p. 479.
Dynamite. Independent Powder Company of Missouri. No. 83,740; Oct. 10; Gaz. vol. 171; p. 478.
Dynamite and powder. Independent Powder Company of Missouri. No. 83,741; Oct. 10; Gaz. vol. 171; p. 478.
Edgers, trimmers, &c. The Gordon Hollow Blast Grate Company. No. 83,487; Sept. 19; Gaz. vol. 170; p. 699.
Eggs. S. E. Waters. No. 82,188; June 6; Gaz. vol. 167; p. 238.
Eggs. G. R. Bliss. No. 83,812; Oct. 17; Gaz. vol. 171; p. 739.
Eggs. D. Munro. No. 84,119; Nov. 7; Gaz. vol. 172; p. 256.
Eggs. L. S. Bache. No. 84,581; Dec. 26; Gaz. vol. 173; p. 1073.
Elastic webbing. Nashawannuck Mfg. Co. No. 84,024; Oct. 31; Gaz. vol. 171; p. 1254.
Electric apparatus, machines, and supplies. Daimler-Motoren-Gesellschaft. No. 83,233; Aug. 29; Gaz. vol. 169; p. 1180.
Electric appliance, Certain. P. E. Charles. No. 81,783; May 9; Gaz. vol. 166; p. 507.
Electric batteries. Universal Electric Storage Battery Company. No. 80,687; Jan. 17; Gaz. vol. 162; p. 780.
Electric batteries. Western Electric Company. No. 81,935; May 16; Gaz. vol. 166; p. 749.
Electric batteries. American Ever Ready Company. No. 82,669; July 18; Gaz. vol. 168; p. 783.
Electric batteries. Western Electric Company. No. 83,114; Aug. 15; Gaz. vol. 169; p. 699.
Electric circuits, Inductive fault-finding and measuring apparatus for. Electric Specialty Manufacturing Company. No. 83,329; Sept. 5; Gaz. vol. 170; p. 239.
Electric conductors. Standard Underground Cable Company. No. 83,523; Sept. 19; Gaz. vol. 170; p. 700.
Electric conductors and cables, Insulated. F. M. Ferrin. No. 83,971; Oct. 24; Gaz. vol. 171; p. 981.
Electric-conduit fittings. J. C. Phelps. No. 82,254; June 13; Gaz. vol. 167; p. 511.
Electric fans and switches. H. F. Keil. No. 84,640; Dec. 26; Gaz. vol. 173; p. 1075.
Electric generators. F. H. Teagle. No. 82,277; June 13; Gaz. vol. 167; p. 511.
Electric-light carbons. Charles L. Kiewert Company. No. 80,659; Jan. 17; Gaz. vol. 162; p. 779.
Electric-lighting apparatus. J. Bijur. Nos. 83,543–4; Sept. 26; Gaz. vol. 170; p. 923.
Electric motors. Century Electric Co. No. 83,046; Aug. 15; Gaz. vol. 169; p. 697.
Electric motors and certain other named electric machinery. The Premier Manufacturing Company. No. 82,534; July 4; Gaz. vol. 168; p. 246.
Electric transformers. Crocker-Wheeler Company. No. 80,513; Jan. 3; Gaz. vol. 162; p. 265.
Electric wall and knife switches, panel-boards, &c. Metropolitan Electric Mfg. Co. No. 83,081; Aug. 15; Gaz. vol. 169; p. 698.
Electrical apparatus and supplies. Arrow Electric Company. No. 82,555; July 11; Gaz. vol. 168; p. 519.
Electrical apparatus and supplies, Certain. Electric Service Supplies Co. No. 80,769; Jan. 31; Gaz. vol. 162; p. 1179.
Electrical apparatus, Certain. Metropolitan Engineering Company. No. 83,082; Aug. 15; Gaz. vol. 169; p. 698.
Electrical apparatus, Certain. E. B. Meyrowitz. No. 84,118; Nov. 7; Gaz. vol. 172; p. 256.
Electrical apparatus, machines, and supplies therefor, Certain. R. J. Sachers. No. 84,132; Nov. 7; Gaz. vol. 172; p. 257.
Electrical conducting material. National Carbon Company. No. 80,866; Feb. 7; Gaz. vol. 163; p. 228.
Electrical equipment. Electrical Engineers Equipment Company. No. 81,797; May 9; Gaz. vol. 166; p. 507.
Electrical goods and incandescent electric lamps, Certain named. Imperial Rubber Co. Nos. 83,334–7; Sept. 5; Gaz. vol. 170; pp. 239–40.
Electrical goods, Certain. Edwards & Co. Nos. 81,686–7; May 2; Gaz. vol. 166; pp. 245–6.
Electrical goods, Certain. A. J. Lindemann & Hoverson Co. No. 84,241; Nov. 21; Gaz. vol. 172; p. 818.
Electrical goods, Certain. Imperial Rubber Co. No. 84,636; Dec. 26; Gaz. vol. 173; p. 1075.
Electrical machines and appliances therefor. W. Meyer. No. 81,897; May 16; Gaz. vol. 166; p. 748.
Electrical machines, Automatic advertising. National Automatic Roll Advertising Company. No. 83,934; Oct. 24; Gaz. vol. 171; p. 980.
Electrical purposes, Wires and cables for. The Electric Cable Company. No. 81,688; May 2; Gaz. vol. 166; p. 246.
Electrical supplies. Imperial Rubber Co. No. 80,598; Jan. 10; Gaz. vol. 162; p. 533.
Electrical supplies. Runzel-Lenz Electric Mfg. Co. No. 82,644; July 11; Gaz. vol. 168; p. 521.
Electrical supplies, Certain. Star Expansion Bolt Company. No. 80,684; Jan. 17; Gaz. vol. 162; p. 780.
Electrical supplies, Certain. Hemming Manufacturing Company. No. 84,628; Dec. 26; Gaz. vol. 173; p. 1075.
Electrical wires and cables. The Electric Cable Co. No. 81,134; Mar. 7; Gaz. vol. 164; p. 245.
Electrical wires, cables, and cores, Covered. Habirshaw Wire Company. No. 83,577; Sept. 26; Gaz. vol. 170; p. 924.
Embossing machines and tools. Orro Manufacturing Co. No. 82,715; July 18; Gaz. vol. 168; p. 784.
Embroideries. Zahner and Schiess and Company. Nos. 83,196–7; Aug. 22; Gaz. vol. 169; p. 941.
Embroideries and certain notions. E. de Grandmont. No. 81,333; Mar. 28; Gaz. vol. 164; p. 971.
Embroideries, White. Krower & Tynberg. No. 80,856; Feb. 7; Gaz. vol. 163; p. 228.
Embroidery fabrics and textile braids, Stamped. Bentley-Franklin Co. No. 81,846; May 16; Gaz. vol. 166; p. 747.
Embroidery forms, molds, cuts, &c. Campbell, Metzger & Jacobson. No. 82,302; June 20; Gaz. vol. 167; p. 757.
Embroidery materials and crochet and knitting thread, Certain. Campbell, Metzger & Jacobson. No. 83,557; Sept. 26; Gaz. vol. 170; p. 923.
Embroidery materials, Certain. Campbell, Metzger & Jacobson. No. 83,556; Sept. 26; Gaz. vol. 170; p. 923.
Embroidery materials, Certain. Campbell, Metzger & Jacobson. No. 83,713; Oct. 10; Gaz. vol. 171; p. 477.
Embroidery materials, Certain. Campbell, Metzger & Jacobson. No. 83,896; Oct. 24; Gaz. vol. 171; p. 979.

Alphabetical list of trade-marks—Continued.

Emollients. Lanman & Kemp. No. 84,110; Nov. 7; Gaz. vol. 172; p. 256.
Enamel and top dressing, Japan iron-. The R. M. Hollingshead Co. No. 81,806; May 9; Gaz. vol. 166; p. 508.
Enamel metal ware. Norvell-Shapleigh Hardware Company. No. 81,409; Apr. 4; Gaz. vol. 165; p. 238.
Enameled metal ware. Gatlin Manufacturing Co. No. 81,068; Feb. 28; Gaz. vol. 163; p. 973.
Enameled metal ware. Simmons Hardware Company. No. 81,919; May 16; Gaz. vol. 166; p. 749.
Engines and parts thereof, Internal-combustion. Nelson Bros. Company. No. 83,271; Aug. 29; Gaz. vol. 169; p. 1181.
Engines and power spraying-machines, Traction-. The "New-Way" Motor Company. No. 83,003; Aug. 8; Gaz. vol. 169; p. 446.
Engines, Certain named. Société des Moteurs Gnome. No. 84,140; Nov. 7; Gaz. vol. 172; p. 257.
Engines, Gas-. The Black Rock Machine Company. No. 82,565; July 11; Gaz. vol. 168; p. 519.
Engines, Gasolene-. American Automobile Manufacturing Company. No. 83,467; Sept. 19; Gaz. vol. 170; p. 699.
Engines, Hydrocarbon-. M. Rumely Company. No. 84,341; Nov. 28; Gaz. vol. 172; p. 1086.
Engines, Internal-combustion. Societe Anonyme des Anciens Etablissements Panhard et Levassor. No. 82,267; June 13; Gaz. vol. 167; p. 511.
Engines, Internal-combustion. The Eagle Company. No. 83,482; Sept. 19; Gaz. vol. 170; p. 699.
Engravers', watchmakers', and jewelers' machines, tools, and dies. A. Muehlmatt. No. 82,528; July 4; Gaz. vol. 168; p. 246.
Engraving-blocks. A. Muehlmatt. Nos. 82,460–1; June 27; Gaz. vol. 167; p. 979.
Ensilage-cutters. Wilder-Strong Implement Co. No. 81,239; Mar. 14; Gaz. vol. 164; p. 504.
Envelops. The Duplex Envelope & Printing Co. No. 82,970; Aug. 8; Gaz. vol. 169; p. 445.
Envelops and folders. Yawman & Erbe Mfg. Co. No. 83,035; Aug. 8; Gaz. vol. 169; p. 447.
Envelops and linen paper. The American Paper Goods Company. No. 84,157; Nov. 14; Gaz. vol. 172; p. 545.
Envelops, paper, pencils, pens, &c. Mercantile Paper Company. No. 82,903; Aug. 1; Gaz. vol. 169; p. 200.
Erasers. Dr. Alexander & Posnansky, Chemische Fabrik. No. 82,853; Aug. 1; Gaz. vol. 169; p. 199.
Excavators, Power-. The Vulcan Steam Shovel Company. No. 80,689; Jan. 17; Gaz. vol. 162; p. 780.
Explosives, High. Empire Dynamite Co. No. 83,969; Oct. 24; Gaz. vol. 171; p. 981.
Exterminator of roaches, water-bugs, ants, &c. Wayne Insect Powder Company. No. 81,763; May 2; Gaz. vol. 166; p. 248.
Eye-cups. J. B. Haden. No. 82,599; July 11; Gaz. vol. 168; p. 520.
Eye-water. F. Giesler. No. 82,070; May 30; Gaz. vol. 166; p. 1277.
Eye-water and eye-salves. The M. A. Ellison Drug Co. No. 80,994; Feb. 21; Gaz. vol. 163; p. 723.
Eyeglass and spectacle cases. American Optical Company. Nos. 82,855–6; Aug. 1; Gaz. vol. 169; p. 199.
Eyeglass-mountings. D. V. Brown. No. 84,079; Nov. 7; Gaz. vol. 172; p. 255.
Eyeglasses and spectacles. The F. W. King Optical Company. No. 80,537; Jan. 3; Gaz. vol. 162; p. 266.
Eyeglasses, spectacles, and lenses. Newbold & Bulford. No. 80,542; Jan. 3; Gaz. vol. 162; p. 266.
Eyeglasses, spectacles, field-glasses, &c. F. H. Edmonds. No. 81,258; Mar. 21; Gaz. vol. 164; p. 735.
Eyelets and lacing-hooks. S. O. & C. Co. No. 83,608; Sept. 26; Gaz. vol. 170; p. 925.
Fabrics, Certain textile. American Designing and Reproducing Co. No. 83,124; Aug. 22; Gaz. vol. 169; p. 939.
Fabrics, Certain textile. The Sheldon Dry Goods Company. No. 83,443; Sept. 12; Gaz. vol. 170; p. 478.
Fabrics, Certain textile. Campbell, Metzger & Jacobson. No. 83,895; Oct. 24; Gaz. vol. 171; p. 979.
Fancy goods and furnishing therefor, Certain. Campbell, Metzger & Jacobson. No. 83,389; Sept. 12; Gaz. vol. 170; p. 477.
Fancy goods and notions, Certain. Sanger Brothers. No. 82,535; July 4; Gaz. vol. 168; p. 246.
Fancy goods, Certain. The Howe Comb Company. No. 82,150; June 6; Gaz. vol. 167; p. 237.
Fancy goods, Certain. Brown Durrell Co. No. 82,570; July 11; Gaz. vol. 168; p. 519.
Fans and parts thereof, Hot-air. C. Jost. No. 80,926; Feb. 14; Gaz. vol. 163; p. 478.
Fasteners, Staple-like metallic. Heaton-Peninsular Button Fastener Co. No. 80,920; Feb. 14; Gaz. vol. 163; p. 478.
Faucet strainers and antisplashers. W. H. Walters. No. 84,352; Nov. 28; Gaz. vol. 172; p. 1086.
Featherbone. Poulain & Steer. No. 82,359; June 20; Gaz. vol. 167; p. 759.
Feathers. Gage Brothers & Co. No. 81,331; Mar. 28; Gaz. vol. 164; p. 971.
Feathers, Artificial. Berlin & Trosky. No. 83,712; Oct. 10; Gaz. vol. 171; p. 477.
Feed, Horse. Edwards & Loomis Co. No. 81,441; Apr. 11; Gaz. vol. 165; p. 469.
Feed, Horse. E. E. Delp Grain Co. No. 83,147; Aug. 22; Gaz. vol. 169; p. 939.
Feed, Horse and cattle. Edwards & Loomis Co. No. 81,440; Apr. 11; Gaz. vol. 165; p. 469.
Feed, Mixed stock. Wm. Pollock Milling & Elevator Co. No. 84,371; Dec. 5; Gaz. vol. 173; p. 283.
Feed, Poultry. Edwards & Loomis Co. No. 81,439; Apr. 11; Gaz. vol. 165; p. 469.
Feed, Stock. The Larabee Flour Mills Company. No. 82,096; May 30; Gaz. vol. 166; p. 1278.
Feed, Stock. The Valley Milling Co. No. 82,384; June 20; Gaz. vol. 167; p. 760.
Feed, Stock. Trinity Cotton Oil Co. No. 83,028; Aug. 8; Gaz. vol. 169; p. 447.
Feed, Wheat mixed. H. Wehmann. No. 83,954; Oct. 24; Gaz. vol. 171; p. 981.
Feeds, Chicken. Birkett Mills. No. 82,955; Aug. 8; Gaz. vol. 169; p. 445.
Feeds, Stock and poultry. The Albert Dickinson Company. No. 84,609; Dec. 26; Gaz. vol. 173; p. 1074.
Felt pennants. The Reproduction Co. No. 82,108; May 30; Gaz. vol. 166; p. 1279.
Felt, Sound-deadening and insulating. The Hydrex Felt & Engineering Company. No. 82,605; July 11; Gaz. vol. 168; p. 520.
Fence, Metallic. Pittsburgh Steel Co. No. 82,256; June 13; Gaz. vol. 167; p. 511.
Fence, Woven-wire. American Steel & Wire Company of New Jersey. No. 81,843; May 16; Gaz. vol. 166; p. 747.
Fertilizer. Farmers' Cotton Oil & Fertilizer Co. No. 81,260; Mar. 21; Gaz. vol. 164; p. 735.
Fertilizer. Cherokee Fertilizer Company. No. 81,433; Apr. 11; Gaz. vol. 165; p. 469.
Fertilizer-distributers. J. M. Sanders. No. 83,516; Sept. 19; Gaz. vol. 170; p. 700.
Fertilizers. The Haserot Canneries Company. No. 80,919; Feb. 14; Gaz. vol. 163; p. 478.
Fertilizers. Home Fertilizer & Chemical Company. No. 81,275; Mar. 21; Gaz. vol. 164; p. 736.
Fertilizers. Home Fertilizer & Chemical Company. No. 81,529; Apr. 18; Gaz. vol. 165; p. 726.
Fertilizers. Wulbern Fertilizer Company. No. 81,839; May 9; Gaz. vol. 166; p. 509.
Fertilizers. Bowker Fertilizer Company. No. 82,297; June 20; Gaz. vol. 167; p. 757.
Fertilizers. The Mayer Fertilizer Co. No. 82,618; July 11; Gaz. vol. 168; p. 521.
Fertilizers. A. O. Meyer. No. 82,621; July 11; Gaz. vol. 168; p. 521.
Fertilizers. The United States Fertilizer Company. No. 82,930; Aug. 1; Gaz. vol. 169; p. 201.
Fertilizers. National Fertilizer Co. No. 83,430; Sept. 12; Gaz. vol. 170; p. 478.
Fertilizers. The Akron Soap Company. No. 83,708; Oct. 10; Gaz. vol. 171; p. 477.
Fertilizers and manures. Bowker Fertilizer Company. No. 83,555; Sept. 26; Gaz. vol. 170; p. 923.
Fertilizers for flowers. Bowker Fertilizer Company. No. 83,133; Aug. 22; Gaz. vol. 169; p. 939.
Fiber-board. C. G. Rupert. No. 81,362; Mar. 28; Gaz. vol. 164; p. 972.
Fiber, Sugar-cane. G. H. Marshall. No. 81,469; Apr. 11; Gaz. vol. 165; p. 470.
Figs. The Hills Brothers Company. No. 82,982; Aug. 8; Gaz. vol. 169; p. 446.
Figs. Rosenberg Bros. & Co. No. 84,413; Dec. 12; Gaz. vol. 173; p. 580.
Figs. The Hills Brothers Company. No. 84,629; Dec. 26; Gaz. vol. 173; p. 1075.
Files. Foreign Steel Company. No. 80,839; Feb. 7; Gaz. vol. 163; p. 227.
Filter-cloths. John Boyle & Co. No. 83,134; Aug. 22; Gaz. vol. 169; p. 939.
Filter-pulp. E. Goldman & Co. No. 83,729; Oct. 10; Gaz. vol. 171; p. 477.
Filters. Red Cross Filter Company. No. 81,627; Apr. 25; Gaz. vol. 165; p. 968.
Filters, Water-. T. Linke. No. 81,887; May 16; Gaz. vol. 166; p. 748.
Fire-bucket tanks. A. G. Leonard. No. 80,602; Jan. 10; Gaz. vol. 162; p. 534.
Fire-engines and parts thereof. International Power Co. No. 84,395; Dec. 12; Gaz. vol. 173; p. 579.
Fire-engines, Chemical. B. J. Goldstein. No. 83,246; Aug. 29; Gaz. vol. 169; p. 1180.
Fire-extinguishers, Chemical. Northern Fire Apparatus Co. No. 83,088; Aug. 15; Gaz. vol. 169; p. 698.
Fire-extinguishing compounds, powder, liquids, and grenades. M. Eberhardt. No. 80,516; Jan. 3; Gaz. vol. 162; p. 265.
Fire-extinguishing compounds, Syringes for. Pyrene Manufacturing Co. No. 83,278; Aug. 29; Gaz. vol. 169; p. 1181.
Fires, Preparation for starting. F. A. Clark. No. 80,895; Feb. 14; Gaz. vol. 163; p. 477.
Fireworks. Stellar Company. No. 82,273; June 13; Gaz. vol. 167; p. 511.

Fish and game and canned oysters, Fresh. J. W. Chew. No. 82,497; July 4; Gaz. vol. 168; p. 245.
Fish-bait, Salmon-eggs for. J. E. Hubbart. No. 82,087; May 30; Gaz. vol. 166; p. 1278.
Fish, canned fruits and vegetables, Cured. Pierce, Austin-Caswell, Livermore Co. No. 82,255; June 13; Gaz. vol. 167; p. 511.
Fish, Frozen, fresh, and salt. New England Fish Company. No. 82,816; July 25; Gaz. vol. 168; p. 1029.
Fish-hooks. W. Mills & Son. No. 81,815; May 9; Gaz. vol. 166; p. 508.
Fish-lines. H. C. Brown. No. 84,080; Nov. 7; Gaz. vol. 172; p. 255.
Fish-spears. Bona fide Mfg. Co. No. 80,758; Jan. 31; Gaz. vol. 162; p. 1179.
Fishing-lines. E. J. Martin's Sons. No. 82,161; June 6; Gaz. vol. 167; p. 238.
Fishing lines and reels, trolling-spoons, and artificial bait. Kelley-How-Thomson Co. No. 83,584; Sept. 26; Gaz. vol. 170; p. 924.
Fishing-rods. Hibbard, Spencer, Bartlett & Company. No. 81,217; Mar. 14; Gaz. vol. 164; p. 503.
Flashings. Taylor's Anchor Edge Flashing Co. No. 83,293; Aug. 29; Gaz. vol. 169; p. 1181.
Flavor, Imitation maple. Closset & Devers. No. 84,464; Dec. 19; Gaz. vol. 173; p. 857.
Flavors. The Famol Products Co. No. 84,474; Dec. 19; Gaz. vol. 173; p. 857.
Flavors, Food-. National Tube Flavor Co. No. 82,530; July 4; Gaz. vol. 168; p. 246.
Flavoring compounds. The Rogers Company. No. 82,827; July 25; Gaz. vol. 168; p. 1029.
Flavoring compounds, Lemon and vanilla. United Grocery Co. No. 82,658; July 11; Gaz. vol. 168; p. 522.
Flavoring extract, Imitation of maple. Kellogg-Birge Co. No. 83,496; Sept. 19; Gaz. vol. 170; p. 700.
Flavoring extracts. Universal Import Co. No. 81,313; Mar. 21; Gaz. vol. 164; p. 737.
Flavoring extracts. H. R. Brown. No. 83,985; Oct. 31; Gaz. vol. 171; p. 1253.
Flavoring extracts. J. L. Legein. No. 84,013; Oct. 31; Gaz. vol. 171; p. 1254.
Flavoring extracts and essences, Vanilla, lemon, and almond. Gowan-Peyton-Twohy Co. No. 84,178; Nov. 14; Gaz. vol. 172; p. 545.
Flavoring extracts or syrups. Foote & Jenks. No. 81,986; May 23; Gaz. vol. 166; p. 982.
Flaxseed used for medicinal purposes, Cleaned and ground. Kelloggs & Miller. No. 84,642; Dec. 26; Gaz. vol. 173; p. 1075.
Floor and ceiling plates. The Beaton & Corbin Mfg. Co. No. 82,398; June 27; Gaz. vol. 167; p. 977.
Floor-finish. Dean & Barry Company. No. 82,766; July 25; Gaz. vol. 168; p. 1027.
Floor-finishes. Herruth Core Oil Company. No. 84,317; Nov. 28; Gaz. vol. 172; p. 1085.
Flooring material, Magnesite. Tufts Sanitary Flooring Company. No. 81,558; Apr. 18; Gaz. vol. 165; p. 726.
Flooring, square-edge strips, and wood flooring-squares. Nashville Hardwood Flooring Company. No. 81,091; Feb. 28; Gaz. vol. 163; p. 974.
Floss, yarns, and threads. Bentley-Franklin Co. No. 84,306; Nov. 28; Gaz. vol. 172; p. 1085.
Flosses, Embroidery-. Alexander & Perlmann. No. 81,046; Feb. 28; Gaz. vol. 163; p. 973.
Flour. Tätosinwerke Fabrik Landwirtschaftlicher Produkte Gesellschaft mit beschränkter Haftung. No. 81,834; May 9; Gaz. vol. 166; p. 508.
Flour. Voigt Milling Company. No. 83,375; Sept. 5; Gaz. vol. 170; p. 241.
Flour. F. B. Chamberlain Company. No. 83,816; Oct. 17; Gaz. vol. 171; p. 739.
Flour and bread, Wheat. J. V. Floccher. No. 82,589; July 11; Gaz. vol. 168; p. 520.
Flour and canned salmon, Wheat-. Foster, Caldarera & Co. No. 83,484; Sept. 19; Gaz. vol. 170; p. 699.
Flour, Compound of buckwheat and wheat. Shannon & Mott Company. No. 83,519; Sept. 19; Gaz. vol. 170; p. 700.
Flour, Cotton-seed. The Louisville Cottonseed Products Co. No. 82,807; July 25; Gaz. vol. 168; p. 1029.
Flour, Pancake-. Francis H. Leggett & Company. No. 83,162; Aug. 22; Gaz. vol. 169; p. 940.
Flour, Self-rising. Akin-Erskine Milling Company. No. 82,852; Aug. 1; Gaz. vol. 169; p. 199.
Flour, Self-rising. The Davis Milling Company. No. 83,966; Oct. 24; Gaz. vol. 171; p. 981.
Flour, stock and poultry feed, Wheat-. Brooklyn Elevator & Milling Company. No. 84,078; Nov. 7; Gaz. vol. 172; p. 255.
Flour, Wheat-. Sands, Taylor & Wood Co. Nos. 80,550–1; Jan. 3; Gaz. vol. 162; p. 266.
Flour, Wheat-. Wm. Alten Co. No. 80,632; Jan. 17; Gaz. vol. 162; p. 779.
Flour, Wheat-. The Blish Milling Company. Nos. 80,637–8; Jan. 17; Gaz. vol. 162; p. 779.
Flour, Wheat-. H. L. Halliday Milling Company. Nos. 80,652–4; Jan. 17; Gaz. vol. 162; p. 779.
Flour, Wheat-. Winter Loeb Grocery Co. No. 80,747; Jan. 24; Gaz. vol. 162; p. 996.
Flour, Wheat-. Wm. Alten Co. No. 80,749; Jan. 31; Gaz. vol. 162; p. 1179.
Flour, Wheat-. Blackwell Milling & Elevator Company. No. 80,756; Jan. 31; Gaz. vol. 162; p. 1179.
Flour, Wheat-. The Carr Milling Co. No. 80,828; Feb. 7; Gaz. vol. 163; p. 227.
Flour, Wheat-. J. G. Davis Co. No. 80,833; Feb. 7; Gaz vol. 163; p. 227.
Flour, Wheat-. The Southwestern Milling Company. No. 80,957; Feb. 14; Gaz. vol. 163; p. 479.
Flour, Wheat-. M. P. Bewley. No. 80,974; Feb. 21; Gaz. vol. 163; p. 723.
Flour, Wheat-. The Caldwell Milling & Elevator Company. No. 80,988; Feb. 21; Gaz. vol. 163; p. 723.
Flour, Wheat-. Mammoth Spring Milling Company. No. 81,015; Feb. 21; Gaz. vol. 163; p. 724.
Flour, Wheat-. Shane Bros. & Wilson Co. No. 81,033; Feb. 21; Gaz. vol. 163; p. 725.
Flour, Wheat-. Crosby Roller Milling Company. No. 81,054; Feb. 28; Gaz. vol. 163; p. 973.
Flour, Wheat-. Peru Milling Company. No. 81,098; Feb. 28; Gaz. vol. 163; p. 974.
Flour, Wheat-. A. B. Smith & Co. No. 81,108; Feb. 28; Gaz. vol. 163; p. 975.
Flour, Wheat-. W. A. Burkhart. No. 81,123; Mar. 7; Gaz. vol. 164; p. 245.
Flour, Wheat-. The Northwestern Consolidated Milling Company. No. 81,164; Mar. 7; Gaz. vol. 164; p. 246.
Flour, Wheat-. A. B. Smith & Co. No. 81,173; Mar. 7; Gaz. vol. 164; p. 246.
Flour, Wheat-. J. Allen Smith & Company. No. 81,174; Mar. 7; Gaz. vol. 164; p. 246.
Flour, Wheat-. Wm. A. Coombs Milling Company. No. 81,254; Mar. 21; Gaz. vol. 164; p. 735.
Flour, Wheat-. Galban & Co. No. 81,263; Mar. 21; Gaz. vol. 164; p. 735.
Flour, Wheat-. Harshbarger Milling Co. No. 81,267; Mar. 21; Gaz. vol. 164; p. 735.
Flour, Wheat-. The Isaac Harter Milling Company. No. 81,268; Mar. 21; Gaz. vol. 164; p. 735.
Flour, Wheat-. The Blish Milling Company. No. 81,322; Mar. 28; Gaz. vol. 164; p. 971.
Flour, Wheat-. Akin-Erskine Milling Company. No. 81,377; Apr. 4; Gaz. vol. 165; p. 237.
Flour, Wheat-. Morris Grocery Company. No. 81,403; Apr. 4; Gaz. vol. 165; p. 237.
Flour, Wheat-. New Prague Flouring Mill Company. No. 81,408; Apr. 4; Gaz. vol. 165; p. 238.
Flour, Wheat-. Edwardsville Milling Company. No. 81,442; Apr. 11; Gaz. vol. 165; p. 469.
Flour, Wheat-. C. A. Gambrill Manufacturing Company. No. 81,454; Apr. 11; Gaz. vol. 165; p. 470.
Flour, Wheat-. C. P. Matthews & Sons. No. 81,470; Apr. 11; Gaz. vol. 165; p. 470.
Flour, Wheat-. McDonald Milling Company. No. 81,472; Apr. 11; Gaz. vol. 165; p. 470.
Flour, Wheat-. Kehlor Flour Mills Company. No. 81,493; Apr. 11; Gaz. vol. 165; p. 471.
Flour, Wheat-. Guice Brothers. No. 81,606; Apr. 25 Gaz. vol. 165; p. 968.
Flour, Wheat-. J. N. Segal. No. 81,637; Apr. 25; Gaz. vol. 165; p. 969.
Flour, Wheat-. A. Vialla. No. 81,648; Apr. 25; Gaz. vol. 165; p. 969.
Flour, Wheat-. The Weideman Milling Company. No. 81,649; Apr. 25; Gaz. vol. 165; p. 969.
Flour, Wheat-. The Kansas Milling & Export Co. Nos. 81,723–4; May 2; Gaz. vol. 166; p. 247.
Flour, Wheat-. Rush City Milling Company. No. 81,748; May 2; Gaz. vol. 166; p. 247.
Flour, Wheat-. Western Flour Mill Company. No. 81,767; May 2; Gaz. vol. 166; p. 248.
Flour, Wheat-. Akin-Erskine Milling Company. No. 81,769; May 9; Gaz. vol. 166; p. 507.
Flour, Wheat-. The Buckeye Cereal Company. No. 81,851; May 16; Gaz. vol. 166; p. 747.
Flour, Wheat-. The Moses Bros. Mill & Elevator Company. No. 81,899; May 16; Gaz. vol. 166; p. 748.
Flour, Wheat-. Brown Milling Company. No. 81,954; May 23; Gaz. vol. 166; p. 981.
Flour, Wheat-. Michigan Milling Company. No. 82,009; May 23; Gaz. vol. 166; p. 983.
Flour, Wheat-. Pioneer Mills. No. 82,017; May 23; Gaz. vol. 166; p. 983.
Flour, Wheat-. J. Allen Smith & Company. No. 82,025; May 23; Gaz. vol. 166; p. 983.
Flour, Wheat-. Wells Flour Milling Company. No. 82,033; May 23; Gaz. vol. 166; p. 983.
Flour, Wheat-. The Caldwell Milling & Elevator Company. No. 82,047; May 30; Gaz. vol. 166; p. 1277.
Flour, Wheat-. The Kansas Milling & Export Co. No. 82,092; May 30; Gaz. vol. 166; p. 1278.
Flour, Wheat-. The Southwestern Milling Company. No. 82,181; June 6; Gaz. vol. 167; p. 238.
Flour, Wheat-. The Rea-Patterson Milling Company. No. 82,260; June 13; Gaz. vol. 167; p. 511.
Flour, Wheat-. Akin-Erskine Milling Company. No. 82,284; June 20; Gaz. vol. 167; p. 757.
Flour, Wheat-. Michigan Milling Company. No. 82,345; June 20; Gaz. vol. 167; p. 759.

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Flour, Wheat-. Akin-Erskine Milling Company. No. 82,394; June 27; Gaz. vol. 167; p. 977.
Flour, Wheat-. Daisy Roller Mills. No. 82,426; June 27; Gaz. vol. 167; p. 978.
Flour, Wheat-. F. G. Hollis & Company. No. 82,515; July 4; Gaz. vol. 168; p. 245.
Flour, Wheat-. Hubbard Milling Company. No. 82,516; July 4; Gaz. vol. 168; p. 245.
Flour, Wheat-. Plansifter Milling Company. No. 82,533; July 4; Gaz. vol. 168; p. 246.
Flour, Wheat-. Wells-Abbott-Nieman Company. No. 82,542; July 4; Gaz. vol. 168; p. 246.
Flour, Wheat-. Western Flour Mill Company. No. 82,543; July 4; Gaz. vol. 168; p. 246.
Flour, Wheat-. Akin-Erskine Milling Company. No. 82,550; July 11; Gaz. vol. 168; p. 519.
Flour, Wheat-. Big Diamond Milling Co. No. 82,674; July 18; Gaz. vol. 168; p. 783.
Flour, Wheat-. Fisher Flouring Mills Company. No. 82,688; July 18; Gaz. vol. 168; p. 783.
Flour, Wheat-. Luxemburg Milling Company. No. 82,702; July 18; Gaz. vol. 168; p. 784.
Flour, Wheat-. Overland Cereals Company. No. 82,717; July 18; Gaz. vol. 168; p. 784.
Flour, Wheat-. The Eaton Milling & Elevator Co. No. 82,771; July 25; Gaz. vol. 168; p. 1028.
Flour, Wheat-. R. Heath. No. 82,791; July 25; Gaz. vol. 168; p. 1028.
Flour, Wheat-. Federal Milling Company. No. 82,877; Aug. 1; Gaz. vol. 169; p. 199.
Flour, Wheat-. Kehlor Flour Mills Company. No. 82,992; Aug. 8; Gaz. vol. 169; p. 446.
Flour, Wheat-. The Davis Milling Company. No. 83,053; Aug. 15; Gaz. vol. 169; p. 697.
Flour, Wheat-. Elysian Milling Company. No. 83,057; Aug. 15; Gaz. vol. 169; p. 697.
Flour, Wheat-. The Southwestern Milling Company. No. 83,098; Aug. 15; Gaz. vol. 169; p. 698.
Flour, Wheat-. Stoddard Gilbert & Co. No. 83,290; Aug. 29; Gaz. vol. 169; p. 1181.
Flour, Wheat-. The Arkansas City Milling Company. No. 83,314; Sept. 5; Gaz. vol. 170; p. 239.
Flour, Wheat-. Wm. Alten Co. No. 83,466; Sept. 19; Gaz. vol. 170; p. 699.
Flour, Wheat-. The King Milling Co. No. 83,499; Sept. 19; Gaz. vol. 170; p. 700.
Flour, Wheat-. Montana Flour Mills Co. No. 83,505; Sept. 19; Gaz. vol. 170; p. 700.
Flour, Wheat-. The Ansted & Burk Co. No. 83,628; Oct. 3; Gaz. vol. 171; p. 209.
Flour, Wheat-. Hubbard Milling Company. No. 83,650; Oct. 3; Gaz. vol. 171; p. 209.
Flour, Wheat-. Rea-Patterson Milling Company. No. 83,690; Oct. 3; Gaz. vol. 171; p. 210.
Flour, Wheat-. Zenith Milling Company. No. 83,706; Oct. 3; Gaz. vol. 171; p. 211.
Flour, Wheat-. American Wholesale Grocery Co. No. 83,804; Oct. 17; Gaz. vol. 171; p. 739.
Flour, Wheat-. Moseley & Motley Milling Co. No. 83,848; Oct. 17; Gaz. vol. 171; p. 740.
Flour, Wheat-. Kehlor Flour Mills Company. No. 84,008; Oct. 31; Gaz. vol. 171; p. 1254.
Flour, Wheat-. The King Milling Co. No. 84,009; Oct. 31; Gaz. vol. 171; p. 1254.
Flour, Wheat-. Moseley & Motley Milling Co. No. 84,022; Oct. 31; Gaz. vol. 171; p. 1254.
Flour, Wheat-. A. Nowak & Son. Nos. 84,029–30; Oct 31; Gaz. vol. 171; p. 1254.
Flour, Wheat-. Acme Milling Company. No. 84,067; Nov. 7; Gaz. vol. 172; p. 255.
Flour, Wheat-. Blank and Gottshall. No. 84,076; Nov. 7; Gaz. vol. 172; p. 255.
Flour, Wheat-. Weideman Milling Company. No. 84,149; Nov. 7; Gaz. vol. 172; p. 257.
Flour, Wheat-. Banner Milling Company. No. 84,305; Nov. 28; Gaz. vol. 172; p. 1085.
Flours and cornmeal. T. G. White Cereal Company. No. 81,936; May 16; Gaz. vol. 166; p. 749.
Flushing devices for waste-pipes. Excello Products Co. No. 83,722; Oct. 10; Gaz. vol. 171; p. 477.
Fly-killing preparation. H. Somers. No. 82,180; June 6; Gaz. vol. 167; p. 238.
Fly-paper, &c., Sticky. M. Dametz. No. 82,139; June 6; Gaz. vol. 167; p. 237.
Fly-paper, Sticky. Geo. Borgfeldt & Co. No. 83,131; Aug. 22; Gaz. vol. 169; p. 939.
Flying-machines. L. Blériot. No. 81,778; May 9; Gaz. vol. 166; p. 507.
Food called "Miso", Japanese. G. Takeshima. No. 84,054; Oct. 31; Gaz. vol. 171; p. 1255.
Food, Cereal. New England Cereal Co. No. 80,795; Jan. 31; Gaz. vol. 162; p. 1180.
Food, Chicken and stock. C. E. Roberts. No. 81,359; Mar. 28; Gaz. vol. 164; p. 972.
Food-coloring preparation. Cerebos, Limited. No. 81,782; May 9; Gaz. vol. 166; p. 507.
Food, Dog. E. C. Spencer. No. 82,651; July 11; Gaz. vol. 168; p. 522.
Food-flavors and gelatin. J. M. Pitkin & Co. No. 83,856; Oct. 17; Gaz. vol. 171; p. 740.
Food-flavors and gelatin. C. H. Stuart & Co. No. 83,867; Oct. 17; Gaz. vol. 171; p. 741.
Food for dogs. A. F. Sherley. No. 84,260; Nov. 21; Gaz. vol. 172; p. 818.
Food for dogs and cats. Spratt's Patent Limited. No. 83,522; Sept. 19; Gaz. vol. 170; p. 700.
Food for fish. M. M. Bishop. No. 80,975; Feb. 21; Gaz. vol. 163; p. 723.
Food for fish. M. M. Bishop. No. 81,496; Apr. 18; Gaz. vol. 165; p. 725.
Food for fishes. G. Haberlé. No. 82,226; June 13; Gaz. vol. 167; p. 510.
Food for fowls and swine, Medicated. Bowker Fertilizer Company. No. 83,216; Aug. 29; Gaz. vol. 169; p. 1179.
Food for poultry, Cereal. The Valley Milling Co. No. 83,037; Aug. 8; Gaz. vol. 169; p. 447.
Food jelly, Powdered preparation for making. J. Bauman. No. 83,887; Oct. 24; Gaz. vol. 171; p. 979.
Food jelly, Preparation for making. J. Bauman. No. 84,072; Nov. 7; Gaz. vol. 172; p. 255.
Food made of corn, sugar, and salt. H. C. Hawk. No. 82,436; June 27; Gaz. vol. 167; p. 978.
Food, Poultry. Kornfalfa Feed Milling Company. No. 80,601; Jan. 10; Gaz. vol. 162; p. 534.
Food, Poultry. Peerless Oyster Co. No. 84,518; Dec. 19; Gaz. vol. 173; p. 859.
Food, Prepared stock. The Great Western Cereal Company. No. 83,644; Oct. 3; Gaz. vol. 171; p. 209.
Food-preservative. B. Heller & Co. No. 84,484; Dec. 19; Gaz. vol. 173; p. 858.
Food, Stock. The Blish Milling Company. No. 80,636; Jan. 17; Gaz. vol. 162; p. 779.
Food, Stock. H. G. Cherry. No. 80,707; Jan. 24; Gaz. vol. 162; p. 995.
Food, Stock. Western Grain & Sugar Products Co. No. 82,486; June 27; Gaz. vol. 167; p. 979.
Food, Stock. S. P. Davis. No. 83,991; Oct. 31; Gaz. vol. 171; p. 1253.
Food, Stock. H. H. Hughes. No. 84,003; Oct. 31; Gaz. vol. 171; p. 1253.
Food, Stock. H. G. Cherry. No. 84,212; Nov. 21; Gaz. vol. 172; p. 817.
Food, Stock and poultry. H. H. Hughes. No. 83,913; Oct. 24; Gaz. vol. 171; p. 980.
Food, Stock and poultry. M. C. Peters Mill Co. No. 84,405; Dec. 12; Gaz. vol. 173; p. 580.
Food substance, Granulated, ground, or pulverized. International Banana Food Co. No. 82,693; July 18; Gaz. vol. 168; p. 783.
Foods, Cattle. Gulfport Grocery Company. No. 81,607; Apr. 25; Gaz. vol. 165; p. 968.
Foods, Cereal. Postum Cereal Co. No. 82,258; June 13; Gaz. vol. 167; p. 511.
Foods, Certain. S. Hamill Company. No. 80,655; Jan. 17; Gaz. vol. 162; p. 779.
Foods, Certain. Miller Bros. & Co. No. 80,668; Jan. 17; Gaz. vol. 162; p. 780.
Foods, Certain. B. F. Leighton & Co. No. 80,777; Jan. 31; Gaz. vol. 162; p. 1179.
Foods, Certain. D. M. Baldwin, Jr. No. 80,970; Feb. 21; Gaz. vol. 163; p. 723.
Foods, Certain. Kroeger-Amos-James Grocer Company. No. 81,154; Mar. 7; Gaz. vol. 164; p. 246.
Foods, Certain. E. K. Pond Packing Company. No. 81,169; Mar. 7; Gaz. vol. 164; p. 246.
Foods, Certain. J. F. Humphreys & Co. No. 81,277; Mar. 21; Gaz. vol. 164; p. 736.
Foods, Certain. The Scudders-Gale Grocer Co. No. 81,305; Mar. 21; Gaz. vol. 164; p. 737.
Foods, Certain. Austin, Nichols & Co. No. 81,318; Mar. 28; Gaz. vol. 164; p. 971.
Foods, Certain. Lutz & Schramm Co. No. 81,345; Mar. 28; Gaz. vol. 164; p. 972.
Foods, Certain. McNeil & Higgins Company. No. 81,347; Mar. 28; Gaz. vol. 164; p. 972.
Foods, Certain. Halligan Coffee Co. No. 81,458; Apr. 11; Gaz. vol. 165; p. 470.
Foods, Certain. J. W. Crook. No. 81,508; Apr. 18; Gaz. vol. 165; p. 725.
Foods, Certain. Austin, Nichols & Co. Nos. 81,569–70; Apr. 25; Gaz. vol. 165; p. 967.
Foods, Certain. F. E. Royston & Co. No. 81,631; Apr. 25; Gaz. vol. 165; p. 969.
Foods, Certain. The Scudders-Gale Grocer Co. No. 81,635; Apr. 25; Gaz. vol. 165; p. 969.
Foods, Certain. Triumph Catsup and Pickle Co. No. 81,646; Apr. 25; Gaz. vol. 165; p. 969.
Foods, Certain. Heermann & Co. No. 81,706; May 2; Gaz. vol. 166; p. 246.
Foods, Certain. The H. D. Lee Mercantile Company. No. 81,727; May 2; Gaz. vol. 166; p. 247.
Foods, Certain. G. Thalheimer. No. 81,757; May 2; Gaz. vol. 166; p. 247.
Foods, Certain. Samuel Wilde's Sons Company. No. 81,768; May 2; Gaz. vol. 166; p. 248.
Foods, Certain. W. T. Dodson. No. 81,795; May 9; Gaz. vol. 166; p. 507.
Foods, Certain. Aplin & Barrett & the Western Counties Creameries. No. 81,844; May 16; Gaz. vol. 166; p. 747.
Foods, Certain. Edward Westen Tea & Spice Company. No. 81,934; May 16; Gaz. vol. 166; p. 749.

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Foods, Certain. Boren-Stewart Company. No. 81,951; May 23; Gaz. vol. 166; p. 981.
Foods, Certain. M. E. Fisher Company. Nos. 82,143–4; June 6; Gaz. vol. 167; p. 237.
Foods, Certain. The Montclair Jam Kitchens. No. 82,164; June 6; Gaz. vol. 167; p. 238.
Foods, Certain. Berdan & Company. No. 82,493; July 4; Gaz. vol. 168; p. 245.
Foods, Certain. Driscol, Church & Hall. No. 82,502; July 4; Gaz. vol. 168; p. 245.
Foods, Certain. The Galesburg Grocery Company. No. 82,592; July 11; Gaz. vol. 168; p. 520.
Foods, Certain. J. F. Howard. No. 83,254; Aug. 29; Gaz. vol. 169; p. 1180.
Foods, Certain. The Gibson Canning Company. No. 83,330; Sept. 5; Gaz. vol. 170; p. 239.
Foods, Certain. McMechen Preserving Co. No. 83,928; Oct. 24; Gaz. vol. 171; p. 980.
Foods, Certain. T. M. Sinclair & Co. No. 83,951; Oct. 24; Gaz. vol. 171; p. 981.
Foods, Certain. S. Hamill Company. No. 84,002; Oct. 31; Gaz. vol. 171; p. 1253.
Foods, Certain. Reiss & Brady. No. 84,043; Oct. 31; Gaz. vol. 171; p. 1255.
Foods, Certain. F. B. Chamberlain Company. No. 84,081; Nov. 7; Gaz. vol. 172; p. 255.
Foods, Certain. The Franco-American Food Company. No. 84,312; Nov. 28; Gaz. vol. 172; p. 1085.
Foods, Certain. Ideal Coffee and Tea Company. No. 84,320; Nov. 28; Gaz. vol. 172; p. 1085.
Foods, Certain. The Kroger Grocery & Baking Co. No. 84,323; Nov. 28; Gaz. vol. 172; p. 1085.
Foods, Certain. The C. S. Morey Mercantile Co. No. 84,332; Nov. 28; Gaz. vol. 172; p. 1086.
Foods, Certain. The Scudders-Gale Grocer Company. No. 84,343; Nov. 28; Gaz. vol. 172; p. 1086.
Foods, Certain. Wadhams & Company. No. 84,351; Nov. 28; Gaz. vol. 172; p. 1086.
Foods, Certain. White-Wilson-Drew Company. No. 84,353; Nov. 28; Gaz. vol. 172; p. 1086.
Foods, Certain. J. H. Smith. No. 84,541; Dec. 19; Gaz. vol. 173; p. 859.
Foods, Certain. Dean & Co. No. 84,604; Dec. 26; Gaz. vol. 173; p. 1074.
Foods, Certain. Western Grocer Company. Nos. 84,706–8; Dec. 26; Gaz. vol. 173; p. 1077.
Foods, Prepared stock. The Belleville Alfalfa Milling Company. No. 83,468; Sept. 19; Gaz. vol. 170; p. 699.
Foods, Stock and poultry. Wash-Co. Alfalfa Mixed Feed & Milling Co. No. 83,702; Oct. 3; Gaz. vol. 171; p. 211.
Forges and blowers therefor, Portable. The Champion Blower & Forge Co. No. 83,715; Oct. 10; Gaz. vol. 171; p. 477.
Forgings and castings. The Ludlum Steel & Spring Co. No. 81,524; Apr. 18; Gaz. vol. 165; p. 726.
Formaldehyde. Pioneer Iron Company. Nos. 82,909–10; Aug. 1; Gaz. vol. 169; p. 200.
Fruit coloring. Price Flavoring Extract Company. No. 81,742; May 2; Gaz. vol. 166; p. 247.
Fruits and raisins, California dried. L. F. Giffen & Co. No. 83,062; Aug. 15; Gaz. vol. 169; p. 697.
Fruits and raisins, California dried. L. F. Giffen & Co. No. 84,314; Nov. 28; Gaz. vol. 172; p. 1085.
Fruits and vegetables, Fresh. Interstate Farmers Exchange. No. 81,009; Feb. 21; Gaz. vol. 163; p. 724.
Fruits and vegetables, Hermetically-sealed. Griffin & Skelley Co. No. 80,527; Jan. 3; Gaz. vol. 162; p. 265.
Fruits, Certain. W. C. Temple. No. 82,121; May 30; Gaz. vol. 166; p. 1279.
Fruits, Certain. Bartow Citrus Growers' Association. No. 83,979; Oct. 31; Gaz. vol. 171; p. 1253.
Fruits, Certain. Alva Citrus Growers' Association. No. 84,563; Dec. 26; Gaz. vol. 173; p. 1073.
Fruits, Certain. Bordentown Citrus Growers Association. No. 84,585; Dec. 26; Gaz. vol. 173; p. 1073.
Fruits, Certain. Brooksville Citrus Growers' Association. No. 84,588; Dec. 26; Gaz. vol. 173; p. 1073.
Fruits, Citrus. Sampson Grove. No. 82,831; July 25; Gaz. vol. 168; p. 1029.
Fruits, Dried. International Import & Export Co. No. 80,599; Jan. 10; Gaz. vol. 162; p. 533.
Fruits, Dried. V. L. Cavanna & Co. No. 80,643; Jan. 17; Gaz. vol. 162; p. 779.
Fruits, Dried. L. Russell. No. 83,008; Aug. 8; Gaz. vol. 169; p. 447.
Fruits, Dried. Los Gatos Cured Fruit Co. No. 84,016; Oct. 31; Gaz. vol. 171; p. 1254.
Fruits, Dried. W. D. Jameson. No. 84,101; Nov. 7; Gaz. vol. 172; p. 256.
Fruits, Fresh. C. T. Keally Co. No. 82,000; May 23; Gaz. vol. 166; p. 982.
Fruits, Preserved. J. Hungerford Smith Co. No. 81,753; May 2; Gaz. vol. 166; p. 247.
Fruits, preserves, and condiments, Brandied. E. G. Kidd. No. 82,243; June 13; Gaz. vol. 167; p. 510.
Fungicide and insecticide. Interstate Chemical Co. No. 84,099; Nov. 7; Gaz. vol. 172; p. 256.
Fur collars and muffs. Fox, Weinig & Co. No. 82,508; July 4; Gaz. vol. 168; p. 245.
Fur-skins, Dressed. La Fourrure Société anonyme L'Administrateur Delegue. No. 84,398; Dec. 12; Gaz. vol. 173; p. 579.
Fur wearing-apparel. Jalkoff Bros. No. 81,879; May 16; Gaz. vol. 166; p. 748.
Furs and skins. Alaska Chemical Company. No. 84,300; Nov. 28; Gaz. vol. 172; p. 1085.
Furnaces. The Underfeed Stoker Company of America. No. 80,624; Jan. 10; Gaz. vol. 162; p. 534.
Furnaces, Metallurgical. The Strong, Carlisle & Hammond Co. No. 84,272; Nov. 21; Gaz. vol. 172; p. 819.
Furnishings and fancy goods, Certain. Ward-Truitt Company. No. 82,032; May 23; Gaz. vol. 166; p. 983.
Furniture, Bent-wood. Erste Oesterreichische Actien-Gesellschaft zur Erzeugung von Möbeln aus gebogenem Holze, Jacob & Josef Kohn. No. 83,996; Oct. 31; Gaz. vol. 171; p. 1253.
Furniture, Certain. The Buckley-Newhall Company. No. 81,671; May 2; Gaz. vol. 166; p. 245.
Furniture, Certain. Empire Furniture Mfg. Co. No. 82,062; May 30; Gaz. vol. 166; p. 1277.
Furniture, Certain. Jamestown Lounge Co. No. 82,090; May 30; Gaz. vol. 166; p. 1278.
Furniture, Double-cane and porch. The Sinclair-Allen M'f'g. Co. No. 81,638; Apr. 25; Gaz. vol. 165; p. 969.
Furniture, piano, carriage, &c., polish. New Castle Polish Mfg. Co. No. 84,027; Oct. 31; Gaz. vol. 171; p. 1254.
Furniture-polish. P. Brady. No. 80,571; Jan. 10; Gaz. vol. 162; p. 533.
Furniture-polish. H. McManus. No. 82,342; June 20; Gaz. vol. 167; p. 758.
Furniture-polish. Keep Brothers. No. 83,653; Oct. 3; Gaz. vol. 171; p. 209.
Furniture-polish. Willogreen Specialty Co. No. 84,354; Nov. 28; Gaz. vol. 172; p. 1086.
Furniture, Rustic hickory. Rustic Hickory Furniture Co. No. 81,749; May 2; Gaz. vol. 166; p. 247.
Fuse, Mining, blasting, and safety. E. I. du Pont de Nemours Powder Company. No. 83,821; Oct. 17; Gaz. vol. 171; p. 739.
Fuse, Mining, blasting, and safety. E. I. du Pont de Nemours Powder Company. No. 83,995; Oct. 31; Gaz. vol. 171; p. 1253.
Fuses and electrical devices. A. F. Daum Co. No. 83,052; Aug. 15; Gaz. vol. 169; p. 697.
Fuses, Blasting-. Coast Manufacturing & Supply Co. No. 82,419; June 27; Gaz. vol. 167; p. 977.
Gage-glasses. F. H. Plouff. No. 80,801; Jan. 31; Gaz. vol. 162; p. 1180.
Gage-glasses. R. G. Von Kokeritz & Co. No. 84,704; Dec. 26; Gaz. vol. 173; p. 1077.
Galvanic bath solutions. Chemische Fabrik Auf Actien (vorm. E. Schering). No. 81,507; Apr. 18; Gaz. vol. 165; p. 725.
Game. E. H. Jackson. No. 80,849; Feb. 7; Gaz. vol. 163; p. 227.
Games, baby jumpers, swings, and walkers, &c., Wooden. Benner Manufacturing Company. No. 82,401; June 27; Gaz. vol. 167; p. 979.
Games, Card. Parker Brothers. No. 82,637; July 11; Gaz. vol. 168; p. 521.
Games on which aerial projectiles are used. E. W. Sayer. No. 83,601; Sept. 26; Gaz. vol. 170; p. 925.
Garment-racks. Buckingham-Rae Company. No. 81,429; Apr. 11; Gaz. vol. 165; p. 469.
Garment racks and holders. Buckingham-Rae Company. No. 80,702; Jan. 24; Gaz. vol. 162; p. 995.
Garters and armbands. L. Burger. No. 83,894; Oct. 24; Gaz. vol. 171; p. 979.
Garters, Men's. The Clark Manufacturing Company. No. 81,126; Mar. 7; Gaz. vol. 164; p. 245.
Gas-burners, Soapstone. J. von Schwarz. No. 83,111; Aug. 15; Gaz. vol. 169; p. 699.
Gas-engines, Two-cycle marine. The Fairbanks Company. Nos. 80,904–5; Feb. 14; Gaz. vol. 163; p. 477.
Gas generators, Acetylene-. Monarch Acetylene Company. No. 84,250; Nov. 21; Gaz. vol. 172; p. 818.
Gas-igniting devices. The U. S. Automatic Lighting Company. No. 81,183; Mar. 7; Gaz. vol. 164; p. 247.
Gas-lighting apparatus, Incandescent-. H. G. O'Neill. No. 80,675; Jan. 17; Gaz. vol. 162; p. 780.
Gas lights and burners, Incandescent. Lindsay Light Company. No. 84,649; Dec. 26; Gaz. vol. 173; p. 1075.
Gas mantles and lights, Incandescent. Lindsay Light Company. No. 84,648; Dec. 26; Gaz. vol. 173; p. 1075.
Gas-mantles, Incandescent. Lindsay Light Company. No. 83,587; Sept. 26; Gaz. vol. 170; p. 924.
Gas-mantles, Incandescent. Lindsay Light Company. No. 83,750; Oct. 10; Gaz. vol. 171; p. 478.
Gas-mantles, Incandescent. Lindsay Light Company. No. 84,650; Dec. 26; Gaz. vol. 173; p. 1075.
Gas-mixers and valve-lifters. Gyrex Mfg. Co. No. 84,095; Nov. 7; Gaz. vol. 172; p. 255.
Gas-shade holder. Manufacturers Sales Company. No. 84,243; Nov. 21; Gaz. vol. 172; p. 818.
Gas-tanks. Fireball Gas Tank & Illuminating Company. No. 83,998; Oct. 31; Gaz. vol. 171; p. 1253.
Gasolene and illuminating-oils. C. Schock. No. 80,875; Feb. 7; Gaz. vol. 163; p. 228.

Gasolene and lubricating and illuminating oils and greases. Riley-Pennsylvania Oil Co. No. 81,299; Mar. 21; Gaz. vol. 164; p. 736.
Gasolene and volatile combustible liquids. H. N. Dauler. No. 83,559; Sept. 26; Gaz. vol. 170; p. 923.
Gelatin. Crystal Gelatine Company. No. 84,603; Dec. 26; Gaz. vol. 173; p. 1074.
Germicides and insecticides. Newton, Chambers & Co. No. 83,937; Oct. 24; Gaz. vol. 171; p. 980.
Gin. Tanqueray, Gordon & Co. No. 81,924; May 16; Gaz. vol. 166; p. 749.
Gin. H. Hackfeld & Co. No. 82,079; May 30; Gaz. vol. 166; p. 1278.
Gin. R. M. Rose Co. No. 82,362; June 20; Gaz. vol. 167; p. 759.
Gin. The Phil Hollenbach Co. No. 83,580; Sept. 26; Gaz. vol. 170; p. 924.
Gin. C. A. Van Rensselaer & Company. No. 83,620; Sept. 26; Gaz. vol. 170; p. 925.
Gin and cordials. Blankenheym & Nolet's Distilleerderij. No. 81,848; May 16; Gaz. vol. 166; p. 747.
Gingham, Dress-. Roberdel Mfg. Co. No. 83,280; Aug. 29; Gaz. vol. 169; p. 1181.
Ginghams. Parkhill Manufacturing Company. No. 80,677; Jan. 17; Gaz. vol. 162; p. 780.
Ginghams. Boston Manufacturing Company 1901. No. 81,323; Mar. 28; Gaz. vol. 164; p. 971.
Ginghams. The Boston Manufacturing Co. 1901. No. 83,554; Sept. 26; Gaz. vol. 170; p. 923.
Ginghams. The Boston Manufacturing Co. 1901. No. 83,891; Oct. 24; Gaz. vol. 171; p. 979.
Ginghams, Dress-. Roberdel Mfg. Co. No. 84,530; Dec. 19; Gaz. vol. 173; p. 859.
Glass. Royal Glass Company. No. 80,621; Jan. 10; Gaz. vol. 162; p. 534.
Glass and metal polishes. E. Sherry. No. 83,695; Oct. 3; Gaz. vol. 171; p. 211.
Glass bottles and jars. Hazel-Atlas Glass Company. No. 81,527; Apr. 18; Gaz. vol. 165; p. 726.
Glass bottles, vases, and fish-globes. K. Stockhausen. No. 82,477; June 27; Gaz. vol. 167; p. 979.
Glass-cutters. Smith & Hemenway Company. No. 81,306; Mar. 21; Gaz. vol. 164; p. 737.
Glass-cutters' stone wheels. Stewart McGlashen & Son. No. 80,727; Jan. 24; Gaz. vol. 162; p. 996.
Glass for making eyeglass-lenses, Colored. H. M. Shreiner. No. 82,536; July 4; Gaz. vol. 168; p. 246.
Glass fruit-jars. Schloss Crockery Co. No. 81,915; May 16; Gaz. vol. 166; p. 749.
Glass jars, bottles, and jelly-tumblers. Smalley Kivlan & Onthank. No. 82,475; June 27; Gaz. vol. 167; p. 979.
Glass lamp-chimneys. Seven Hosek Brothers Company. No. 83,442; Sept. 12; Gaz. vol. 170; p. 478.
Glass. Sand for use in the manufacture of. United States Silica Company. No. 80,820; Jan. 31; Gaz. vol. 162; p. 1181.
Glass shades, globes, and reflectors. Gleason-Tiebout Glass Company. No. 82,785; July 25; Gaz. vol. 168; p. 1028.
Glass, Sheet-. Mississippi Glass Company. No. 82,455; June 27; Gaz. vol. 167; p. 978.
Glass used for certain purposes. Semon Bache & Company. No. 82,722; July 18; Gaz. vol. 168; p. 784.
Glass, Window-. Chanute Window Glass Company. No. 81,504; Apr. 18; Gaz. vol. 165; p. 725.
Glassware for chemical laboratories. E. Kavalier. Nos. 83,651–2; Oct. 3; Gaz. vol. 171; p. 209.
Glassware, Table and ornamental. The Jefferson Glass Co. No. 82,796; July 25; Gaz. vol. 168; p. 1028.
Gloves. Dent, Allcroft & Co. No. 80,990; Feb. 21; Gaz. vol. 163; p. 723.
Gloves and hosiery. J. E. Wunsch. No. 83,380; Sept. 5; Gaz. vol. 170; p. 241.
Gloves and mittens. Northrup Glove M'fg. Co. No. 81,288; Mar. 21; Gaz. vol. 164; p. 736.
Gloves and mittens. X-Cel-O Glove Co. No. 84,066; Oct. 31; Gaz. vol. 171; p. 1255.
Gloves and mitts, Base-ball. A. J. Reach Company. Nos. 82,018–19; May 23; Gaz. vol. 166; p. 983.
Gloves, Kid. Steinberger & Kalisher. No. 81,416; Apr. 4; Gaz. vol. 165; p. 238.
Gloves, Leather. Bondat freres & Cie. No. 81,497; Apr. 18; Gaz. vol. 165; p. 725.
Gloves, Leather. California Glove Company. No. 81,779; May 9; Gaz. vol. 166; p. 507.
Gloves, Reversible. The Chaddock-Kurz Reversible Glove Co. No. 82,303; June 20; Gaz. vol. 167; p. 757.
Glue. Imperial Glue Company. No. 82,237; June 13; Gaz. vol. 167; p. 510.
Glue. J. Schulist. No. 83,362; Sept. 5; Gaz. vol. 170; p. 240.
Glue, adhesive paste, and mucilage. L. H. Thomas Co. No. 82,845; July 25; Gaz. vol. 168; p. 1030.
Glue and adhesive gelatin. Naamlooze Vennootschap Lym-En Gelatinefabrik "Delft." No. 82,624; July 11; Gaz. vol. 168; p. 521.
Glue, arabic, paste, and mucilage. Sanford Manufacturing Co. No. 82,832; July 25; Gaz. vol. 168; p. 1029.
Glue, Liquid fish-. Flash Chemical Co. No. 83,723; Oct. 10; Gaz. vol. 171; p. 477.
Glue, mucilage, and adhesive paste. N. F. Hines. No. 82,440; June 27; Gaz. vol. 167; p. 978.
Glues. West Manufacturing Company. No. 82,039; May 23; Gaz. vol. 166; p. 983.
Glues. J. & G. Cox. No. 82,423; June 27; Gaz. vol. 167; p. 978.
Glues. Russia Cement Company. No. 83,359; Sept. 5; Gaz. vol. 170; p. 240.
Glycerin substitute. Chas. W. Jacob & Allison. No. 83,917; Oct. 24; Gaz. vol. 171; p. 980.
Go-carts and perambulators. Ferris and Leith. No. 84,174; Nov. 14; Gaz. vol. 172; p. 545.
Gold and silver polish. E. A. Teida. No. 80,816; Jan. 31; Gaz. vol. 162; p. 1181.
Gold, Ceramic. John W. Hasburg Company. No. 81,002; Feb. 21; Gaz. vol. 163; p. 724.
Gold for china belleek and glass. F. Hall. No. 82,511; July 4; Gaz. vol. 168; p. 245.
Golf-balls. St. Mungo Manufacturing Company. Nos. 81,302–3; Mar. 21; Gaz. vol. 164; pp. 736–7.
Goods, Certain. The John S. Naylor Company. No. 84,659; Dec. 26; Gaz. vol. 173; p. 1075.
Grain and food for stock. South Texas Grain Company. No. 80,559; Jan. 3; Gaz. vol. 162; p. 266.
Grain-seeding machines. The American Seeding Machine Company. No. 83,709; Oct. 10; Gaz. vol. 171; p. 477.
Grain-separating machines. Aultman & Taylor Machinery Company. No. 83,040; Aug. 15; Gaz. vol. 169; p. 697.
Granite, Quarried. Woodbury Granite Company. No. 83,622; Sept. 26; Gaz. vol. 170; p. 925.
Grape-juice. Franklin MacVeagh & Company. No. 83,926; Oct. 24; Gaz. vol. 171; p. 980.
Grapes, Fresh. Mason Brothers. No. 81,893; May 16; Gaz. vol. 166; p. 748.
Grate-bars. D. C. Earnest. No. 84,221; Nov. 21; Gaz. vol. 172; p. 817.
Grates. The Gordon Hollow Blast Grate Company. No. 83,405; Sept. 12; Gaz. vol. 170; p. 477.
Grease and fat separators. F. C. Bosworth. No. 84,456; Dec. 19; Gaz. vol. 173; p. 857.
Grease and oil cups and wrenches. The Lunkenheimer Company. No. 80,858; Feb. 7; Gaz. vol. 163; p. 228.
Grease-cups. The Lunkenheimer Company. Nos. 83,665–6; Oct. 3; Gaz. vol. 171; p. 210.
Grease-cups. The Lunkenheimer Company. No. 83,670; Oct. 3; Gaz. vol. 171; p. 210.
Grease-cups. The Lunkenheimer Company. No. 83,672; Oct. 3; Gaz. vol. 171; p. 210.
Grease-cups. The Lunkenheimer Company. No. 83,674; Oct. 3; Gaz. vol. 171; p. 210.
Grease, tallow, oils, &c., Bleach for. William F. Jobbins, Incorporated. No. 81,338; Mar. 28; Gaz. vol. 164; p. 971.
Greases and oil. The R. M. Hollingshead Co. No. 81,805; May 9; Gaz. vol. 166; p. 508.
Greases, Lubricating-. F. S. Walton Company. No. 81,184; Mar. 7; Gaz. vol. 164; p. 247.
Gum and cachous, Chewing-. Sen-Sen Chiclet Company. No. 84,536; Dec. 19; Gaz. vol. 173; p. 859.
Gum, Chewing-. Bristol Drug Mfg. Co. No. 80,701; Jan. 24; Gaz. vol. 162; p. 995.
Gum, Chewing-. A. Müller & Co. No. 80,730; Jan. 24; Gaz. vol. 162; p. 996.
Gum, Chewing-. C. Bolwell. No. 80,757; Jan. 31; Gaz. vol. 162; p. 1179.
Gum, Chewing-. C. L. Kelley. No. 80,784; Jan. 31; Gaz. vol. 162; p. 1180.
Gum, Chewing-. R. L. Johnstone. No. 80,851; Feb. 7; Gaz. vol. 163; p. 227.
Gum, Chewing-. C. Abramson. No. 81,315; Mar. 28; Gaz. vol. 164; p. 971.
Gum, Chewing-. G. Dorne. No. 81,861; May 16; Gaz. vol. 166; p. 747.
Gum, Chewing-. The Opal Gum Co. No. 82,252; June 13; Gaz. vol. 167; p. 511.
Gum, Chewing-. Sorority Gum Co. No. 83,189; Aug. 22; Gaz. vol. 169; p. 941.
Gum, Chewing-. Puritan Company. No. 83,512; Sept. 19; Gaz. vol. 170; p. 700.
Gum, Chewing-. L. Goudie. No. 83,641; Oct. 3; Gaz. vol. 171; p. 209.
Gum, Chewing-. Haines & Slocum Co. No. 83,831; Oct. 17; Gaz. vol. 171; p. 740.
Hair and scalp tonic. H. W. Niswonger. No. 81,738; May 2; Gaz. vol. 166; p. 247.
Hair and scalp tonic. E. D. O'Brien. No. 82,352; June 20; Gaz. vol. 167; p. 759.
Hair crimpers, wavers, and builders. The Philadelphia Novelty Manufacturing Company. No. 84,038; Oct. 31; Gaz. vol. 171; p. 1254.
Hair-dye. E. S. Wells. No. 84,558; Dec. 19; Gaz. vol. 173; p. 860.
Hair-dyes. A. F. Godefroy and Sons. No. 84,090; Nov. 7; Gaz. vol. 172; p. 255.
Hair-dyeing preparations. Actien-Gesellschaft für Anilin-Fabrikation. No. 81,841; May 16; Gaz. vol. 166; p. 747.
Hair goods. M. Glassman. No. 81,869; May 16; Gaz. vol. 166; p. 747.
Hair goods, Certain The B. Frankel Co. No. 84,000; Oct. 31; Gaz. vol. 171; p. 1253.
Hair-nets. L. Pfeiffer. No. 80,544; Jan. 3; Gaz. vol. 162; p. 266.
Hair-nets. I. Grossmann. No. 81,143; Mar. 7; Gaz. vol. 164; p. 245.

Alphabetical list of trade-marks—Continued.

Hair-nets. Marshall Field & Company. No. 81,262; Mar. 21; Gaz. vol. 164; p. 735.
Hair-nets. Guthman, Solomons & Co. No. 81,457; Apr. 11; Gaz. vol. 165; p. 470.
Hair-nets. Marshall Field & Company. No. 81,865; May 16; Gaz. vol. 166; p. 747.
Hair-nets. W. Bodek Company. No. 83,130; Aug. 22; Gaz. vol. 169; p. 939.
Hair-nets. H. Gallert Manufacturing Co. No. 83,975; Oct. 24; Gaz. vol. 171; p. 981.
Hair-nets. Guthman, Solomons & Co. No. 84,481; Dec. 19; Gaz. vol. 173; p. 858.
Hair ornaments. A. Burke & Co. No. 82,678; July 18; Gaz. vol. 168; p. 783.
Hair ornaments. Leominster Button Co. No. 83,740; Oct. 10; Gaz. vol. 171; p. 478.
Hair-pins. William H. Cole & Co. No. 81,676; May 2; Gaz. vol. 166; p. 245.
Hair-pins, combs, and barrettes. Puritan Comb Company. No. 81,546; Apr. 18; Gaz. vol. 165; p. 726.
Hair preparation. T. N. Coleman. No. 82,054; May 30; Gaz. vol. 166; p. 1277.
Hair remover, Superfluous-. C. L. Mellynn. No. 80,860; Feb. 7; Gaz. vol. 163; p. 228.
Hair-retainers and hair-dressing devices. Max G. Cohn & Co. No. 84,465; Dec. 19; Gaz. vol. 173; p. 857.
Hair rolls. Bauer Brothers. No. 81,947; May 23; Gaz. vol. 166; p. 981.
Hair-stain. P. M. Gilmore. No. 83,903; Oct. 24; Gaz. vol. 171; p. 979.
Hair-tonic. C. & P. Roussos. No. 81,825; May 9; Gaz. vol. 166; p. 508.
Hair-tonic. A. A. Wilson. No. 81,938; May 16; Gaz. vol. 166; p. 749.
Hair-tonic. E. Schaufler. No. 82,364; June 20; Gaz. vol. 167; p. 759.
Hair-tonic. R. Hoder. No. 82,603; July 11; Gaz. vol. 168; p. 520.
Hair-tonic. R. E. Purcell & Co. No. 82,639; July 11; Gaz. vol. 168; p. 521.
Hair-tonic. F. P. Tilford. No. 82,656; July 11; Gaz. vol. 168; p. 522.
Hair-tonic. Kogeos & Poolo. No. 82,804; July 25; Gaz. vol. 168; p. 1029.
Hair-tonic. T. J. Pomeroy. No. 83,688; Oct. 3; Gaz. vol. 171; p. 210.
Hair-tonic. G. W. Craft. No. 84,082; Nov. 7; Gaz. vol. 172; p. 255.
Hair-tonic. G. P. P. Nicolaou. No. 84,335; Nov. 28; Gaz. vol. 172; p. 1086.
Hair-tonic. Wood and Turner. No. 84,355; Nov. 28; Gaz. vol. 172; p. 1086.
Hair-tonic. H. E. Smith. No. 84,690; Dec. 26; Gaz. vol. 173; p. 1076.
Hair-tonic and a remedy for certain diseases. Arch Pharmacal Company. No. 84,071; Nov. 7; Gaz. vol. 172; p. 255.
Hair-tonic and dandruff remedy. A. De Courlandon. No. 81,595; Apr. 25; Gaz. vol. 165; p. 968.
Hair-tonic and dandruff-remover. G. R. Springer. No. 80,878; Feb. 7; Gaz. vol. 163; p. 228.
Hair tonic and dressing. C. G. Nutt. No. 83,938; Oct. 24; Gaz. vol. 171; p. 980.
Hair tonic and pomatum. V. H. and B. L. Brun. No. 80,983; Feb. 21; Gaz. vol. 163; p. 723.
Hair-tonic and remedy for dandruff. A. Leza y Sebasco. No. 83,604; Sept. 26; Gaz. vol. 170; p. 925.
Hair-tonic and remedy for dandruff and scalp diseases. A. Rudolph. No. 80,679; Jan. 17; Gaz. vol. 162; p. 780
Hair-tonics. The H. & M. Hair Tonic Company. No 80,715; Jan. 24; Gaz. vol. 162; p. 995.
Hair-tonics. D. L. Mertz. No. 80,791; Jan. 31; Gaz. vol. 162; p. 1180.
Hair-tonics. A. Rogal. No. 82,826; July 25; Gaz. vol. 168; p. 1029.
Hair-tonics. M. M. Harper. No. 84,096; Nov. 7; Gaz. vol. 172; p. 256.
Hair-tonics. S. A. Hutchins. No. 84,319; Nov. 28; Gaz. vol. 172; p. 1085.
Hair tonics or restorers. G. Donigan. Nos. 82,769–70; July 25; Gaz. vol. 168; pp. 1027–8.
Hair-unguent. A. C. Hixon. No. 81,803; May 9; Gaz. vol. 166; p. 508.
Ham. V. W. Joyner. No. 81,809; May 9; Gaz. vol. 166; p. 508.
Ham, Boiled. L. Burk. No. 80,984; Feb. 21; Gaz. vol. 163; p. 723.
Ham, sausage, and bacon. Tennessee Packing and Stock Yards Co. No. 83,192; Aug. 22; Gaz. vol. 169; p. 941.
Ham, shoulders, and bacon. T. M. Sinclair & Co. No. 82,474; June 27; Gaz. vol. 167; p. 979.
Hams and bacon. Roberts & Oake. No. 81,171; Mar. 7; Gaz. vol. 164; p. 246.
Hams and shoulders. L. Burk. No. 80,985; Feb. 21; Gaz. vol. 163; p. 723.
Hams, bacon, sausages, and lard. Vette & Zuncker. No. 81,369; Mar. 28; Gaz. vol. 164; p. 972.
Hams, shoulders, and bacon. T. M. Sinclair & Co. No. 83,861; Oct. 17; Gaz. vol. 171; p. 740.
Hams, shoulders, bacon, and picnics. T. M. Sinclair & Co. No. 83,283; Aug. 29; Gaz. vol. 169; p. 1181.
Hams, shoulders, rolls, bacon, and lard. T. M. Sinclair & Co. No. 83,520; Sept. 19; Gaz. vol. 170; p. 700.
Hames. U. S. Hame Company. Nos. 84,699–700; Dec. 26; Gaz. vol. 173; p. 1077.
Hammers, hatchets, axes, and cold-chisels. C. Hammond & Son. No. 84,626; Dec. 26; Gaz. vol. 173; p. 1075.
Hammocks. Carnie-Goudie Manufacturing Company. No. 80,642; Jan. 17; Gaz. vol. 162; p. 779.
Hammocks. The I. E. Palmer Co. No. 81,740; May 2; Gaz. vol. 166; p. 247.
Handcuffs, leg-irons, and nippers. The Mattatuck Manufacturing Company. No. 82,901; Aug. 1; Gaz. vol. 169; p. 200.
Handkerchiefs. Wilson Brothers. No. 81,939; May 16; Gaz. vol. 166; p. 749.
Handkerchiefs. Stringham & Bauer. No. 82,478; June 27; Gaz. vol. 167; p. 979.
Handkerchiefs. Brown Durrell Co. No. 82,959; Aug. 8; Gaz. vol. 169; p. 445.
Handkerchiefs. C. Goell. No. 83,063; Aug. 15; Gaz. vol. 169; p. 697.
Handkerchiefs and curtains. Burch, Bailey & Co. No. 80,759; Jan. 31; Gaz. vol. 162; p. 1179.
Handkerchiefs, napkins, table-cloths, towels, and linen piece goods. Strawbridge & Clothier. No. 83,292; Aug. 29; Gaz. vol. 169; p. 1181.
Hardware and plumbing and steam-fitters' supplies, Certain named. Van Camp Hardware & Iron Company. No. 81,836; May 9; Gaz. vol. 166; p. 509.
Hardware and plumbing supplies, Certain. Aktiebolaget B. A. Hjorth & Co. No. 82,285; June 20; Gaz. vol. 167; p. 757.
Hardware, Certain. Norvell-Shapleigh Hardware Company. No. 81,290; Mar. 21; Gaz. vol. 164; p. 736.
Hardware, Certain. The Mattatuck Manufacturing Company. No. 82,247; June 13; Gaz. vol. 167; p. 510.
Hardware, Certain. Oneida Community. No. 83,507; Sept. 19; Gaz. vol. 170; p. 700.
Hardware, Certain. F. D. Kees Manufacturing Co. No. 83,919; Oct. 24; Gaz. vol. 171; p. 980.
Hardware goods, Coverings for certain. Sanitary Ware Mfg. Co. No. 84,684; Dec. 26; Gaz. vol. 173; p. 1076.
Hardware, Kitchen-. Lasher Manufacturing Co. No. 83,500; Sept. 19; Gaz. vol. 170; p. 700.
Hardware, plumbing, and steam-fitting supplies, Certain. Locke Regulator Company. No. 83,076; Aug. 15; Gaz. vol. 169; p. 698.
Harness ornaments and hardware. Southern Stamping & Mfg. Co. No. 83,778; Oct. 10; Gaz. vol. 171; p. 479.
Harness, saddles, and horse-collars. S. R. & I. C. McConnell Co. No. 82,902; Aug. 1; Gaz. vol. 169; p. 200.
Harvesting machines, diggers, pickers, and sorters, Potato. The Hoover Mfg. Co. No. 83,581; Sept. 26; Gaz. vol. 170; p. 924.
Hat-dressings. Young & Smith. No. 83,306; Aug. 29; Gaz. vol. 169; p. 1182.
Hat-trimmings. Louis Metzger & Co. No. 80,863; Feb. 7; Gaz. vol. 163; p. 228.
Hats. Moore Smith Co. No. 81,350; Mar. 28; Gaz. vol. 164; p. 972.
Hats and caps. F. Schoble & Co. No. 81,364; Mar. 28; Gaz. vol. 164; p. 972.
Hats and caps. Brothers & Company. No. 82,045; May 30; Gaz. vol. 166; p. 1277.
Hats and caps. White, Branch, Shelton Hat Company. No. 82,737; July 18; Gaz. vol. 168; p. 785.
Hats and caps. Sarnoff Bros. No. 83,010; Aug. 8; Gaz. vol. 169; p. 447.
Hats and caps. North American Hat Company. No. 83,350; Sept. 5; Gaz. vol. 170; p. 240.
Hats and caps, Men's. H. H. Roelofs and Company. No. 82,174; June 6; Gaz. vol. 167; p. 238.
Hats, caps, and helmets. R. C. Jones. No. 80,852; Feb. 7; Gaz. vol. 163; p. 227.
Hats, Ladies'. Hirsch-Wolff Millinery Co. No. 82,441; June 27; Gaz. vol. 167; p. 978.
Hats, Men's. Baltimore Bargain House. No. 81,319; Mar. 28; Gaz. vol. 164; p. 971.
Hats, Men's and boys'. Middleton Manufacturing Co. No. 82,708; July 18; Gaz. vol. 168; p. 784.
Hats, Preparation for stiffening, sizing, and finishing. E. A. Rogers. Nos. 82,828–9; July 25; Gaz. vol. 168; p. 1029.
Headwear, Certain. Dunlap & Co. No. 83,148; Aug. 22; Gaz. vol. 169; p. 939.
Heat-insulating materials. Armstrong Cork Company. No. 83,806; Oct. 17; Gaz. vol. 171; p. 739.
Heaters and draft-fans, Hot-air. The Green Fuel Economizer Co. No. 84,625; Dec. 26; Gaz. vol. 173; p. 1074.
Heating apparatus and parts thereof, Certain. N. Cupersmith. No. 81,437; Apr. 11; Gaz. vol. 165; p. 469.
Heating apparatus, Certain. Chicago Stove & Range Co. No. 80,894; Feb. 14; Gaz. vol. 163; p. 477.
Heating apparatus, Certain. The Turner Brass Works. No. 81,312; Mar. 21; Gaz. vol. 164; p. 737.
Heating, Controllers and parts thereof for. Vapor-Vacuum Heating Co. No. 83,031; Aug. 8; Gaz. vol. 169; p. 447.
Hemoglobiniferous preparations. A. Jaffe. No. 80,534; Jap. 3; Gaz. vol. 162; p. 265.

Alphabetical list of trade-marks—Continued.

Hinges, Cellar-door. J. De Rose. No. 83,055; Aug. 15; Gaz. vol. 169; p. 697.
Hinges. door-guards, window-locks, &c. Lawson Manufacturing Company. No. 82,613; July 11; Gaz. vol. 168; p. 521.
Hockey-sticks and fishing-tackle. H. A. Whittemore. No. 81,043; Feb. 21; Gaz. vol. 163; p. 725.
Hoes and shovels, Metal. The Chillington Tool Company. No. 84,379; Dec. 12; Gaz. vol. 173; p. 579.
Hoes, rakes, forks, shovels, drain-cleaners, &c. Van Camp Hardware & Iron Company. No. 81,560; Apr. 18; Gaz. vol. 165; p. 727.
Hog and pig rings and ringers. W. E. Pratt. No. 83,277; Aug. 29; Gaz. vol. 169; p. 1181.
Hoisting-engines and friction hoisting-drums. William B. Hough Company. No. 81,994; May 23; Gaz. vol. 166; p. 982.
Hoists, cranes, sawing machinery, and parts thereof, Air-. The Q M S Co. No. 83,771; Oct. 10; Gaz. vol. 171; p. 479.
Hones and grinding-stones. F. Swaty. No. 83,447; Sept. 12; Gaz. vol. 170; p. 479.
Hones and grinding-stones. F. Swaty. No. 84,197; Nov. 14; Gaz. vol. 172; p. 546.
Hoof-pads. Morgan & Wright. No. 82,457; June 27; Gaz. vol. 167; p. 978.
Hooks and eyes and safety-pins. American Pin Co. No. 81,317; Mar. 28; Gaz. vol. 164; p. 971.
Horns, Electric signal-. The Dean Electric Company. No. 82,501; July 4; Gaz. vol. 168; p. 245.
Horns, sirens, and gongs, Automobile. H. Beaucourt. No. 82,291; June 20; Gaz. vol. 167; p. 757.
Horse equipments and leather goods, Certain. Brown and Sehler Company. No. 82,867; Aug. 1; Gaz. vol. 169; p. 199.
Horse equipments and whips. Fremont Saddlery Company. No. 82,878; Aug. 1; Gaz. vol. 169; p. 199.
Horseshoe-calks. The Rowe Patent Calk Company. Nos. 83,440–1; Sept. 12; Gaz. vol. 170; p. 478.
Horseshoe-calks. The Rowe Patent Calk Company. No. 84,047; Oct. 31; Gaz. vol. 171; p. 1255.
Horseshoe-pads. Revere Rubber Company. No. 84,339; Nov. 28; Gaz. vol. 172; p. 1086.
Horseshoes. J. J. McKinley. No. 84,504; Dec. 19; Gaz. vol. 173; p. 858.
Horseshoes and horseshoe-calks. Rhode Island Perkins Horse Shoe Company. No. 81,481; Apr. 11; Gaz. vol. 165; p. 470.
Hose. Peerless Rubber Manufacturing Company. No. 82,356; June 20; Gaz. vol. 167; p. 759
Hose. Phoenix Knitting Works. No. 84,521; Dec. 19; Gaz. vol. 173; p. 859.
Hose and ladies' and children's clothing. Men's half-. L. Herzog & Brother Dry Goods Company. No. 81,076; Feb. 28; Gaz. vol. 163; p. 974.
Hose, belting, tubing, &c. Imperial Rubber Co. Nos. 80,531–2; Jan. 3; Gaz. vol. 162; p. 265.
Hose-conduits. Manhattan Rubber Mfg. Company. No. 84,653; Dec. 26; Gaz. vol. 173; p. 1075.
Hose for gentlemen, Silk half-. The Joseph S. Mack Silk Co. No. 81,891; May 16; Gaz. vol. 166; p. 748.
Hose, Men's half-. Rice-Stix Dry Goods Co. No. 83,006; Aug. 8; Gaz. vol. 169; p. 447.
Hose, Men's, women's, and children's. The Union Manufacturing Company. Nos. 82,927–9; Aug. 1; Gaz. vol. 169; p. 201.
Hose-nozzles. The Goulds Manufacturing Company. No. 80,912; Feb. 14; Gaz. vol. 163; p. 477.
Hose-racks. H. C. Dodge. No. 81,133; Mar. 7; Gaz. vol. 164; p. 245.
Hose reels and racks. T. V. Forster. No. 82,067; May 30; Gaz. vol. 166; p. 1277.
Hose-supporters. A. Stein & Company. No. 80,685; Jan. 17; Gaz. vol. 162; p. 780.
Hose-supporters. Shirt Garter Co. No. 83,366; Sept. 5; Gaz. vol. 170; p. 240.
Hose supporters and protectors. D. C. Baum. No. 83,980; Oct. 31; Gaz. vol. 171; p. 1253.
Hose-supporters, Ladies'. M. W. Schloss. No. 84,532; Dec. 19; Gaz. vol. 173; p. 859.
Hose, tubing, belting, gaskets, &c. Imperial Rubber Co. No. 80,597; Jan. 10; Gaz. vol. 162; p. 533.
Hose, Woven linen-fabric. Eureka Fire Hose Manufacturing Co. No. 82,506; July 4; Gaz. vol. 168; p. 245.
Hosiery. C. H. Yates & Co. Nos. 80,565–6; Jan. 3; Gaz. vol. 162; p. 266.
Hosiery. Brown Durrell Co. No. 80,572; Jan. 10; Gaz. vol. 162; p. 533.
Hosiery. Rice-Stix Dry Goods Company. No. 80,620; Jan. 10; Gaz. vol. 162; p. 534.
Hosiery. Central Knitting Company. No. 80,829; Feb. 7; Gaz. vol. 163; p. 227.
Hosiery. Central Knitting Company. No. 80,893; Feb. 14; Gaz. vol. 163; p. 477.
Hosiery. Syracuse Dry Goods Company. No. 81,643; Apr. 25; Gaz. vol. 165; p. 969.
Hosiery. D. F. Greenawalt. No. 81,989; May 23; Gaz. vol. 166; p. 982.
Hosiery. W. G. Starry. No. 82,028; May 23; Gaz. vol. 166; p. 983.
Hosiery. C. Dick. No. 82,058; May 30; Gaz. vol. 166; p. 1277.
Hosiery. Holeproof Hosiery Company. No. 82,082; May 30; Gaz. vol. 166; p. 1278.
Hosiery. The Pittsburgh Dry Goods Company. Nos. 82,169–70; June 6; Gaz. vol. 167; p. 238.
Hosiery. Century Knitting Mills. No. 82,207; June 13; Gaz. vol. 167; p. 509.
Hosiery. Interwoven Stocking Company. No. 82,518; July 4; Gaz. vol. 168; p. 245.
Hosiery. Bellas Hess & Co. No. 82,560; July 11; Gaz. vol. 168; p. 519.
Hosiery. Syracuse Dry Goods Co. No. 82,654; July 11; Gaz. vol. 168; p. 522.
Hosiery. W. B. Threapleton's Sons. No. 82,655; July 11; Gaz. vol. 168; p. 522.
Hosiery. G. M. Lillie. No. 82,700; July 18; Gaz. vol. 168; p. 784.
Hosiery. Walker Stetson Co. No. 82,734; July 18; Gaz. vol. 168; p. 785.
Hosiery. J. I. Holder. No. 82,986; Aug. 8; Gaz. vol. 169; p. 446.
Hosiery. Interwoven Stocking Company. No. 82,989; Aug. 8; Gaz. vol. 169; p. 446.
Hosiery. W. Wesendonck. No. 83,032; Aug. 8; Gaz. vol. 169; p. 447.
Hosiery. Interwoven Stocking Company. No. 83,070; Aug. 15; Gaz. vol. 169; p. 698.
Hosiery. Paramount Knitting Company. Nos. 83,090–1; Aug. 15; Gaz. vol. 169; p. 698.
Hosiery. W. Wesendonck. No. 83,113; Aug. 15; Gaz. vol. 169; p. 699.
Hosiery. Carson, Pirie, Scott & Co. Nos. 83,139–40; Aug. 22; Gaz. vol. 169; p. 939.
Hosiery. Carson, Pirie, Scott & Co. No. 83,219; Aug. 29; Gaz. vol. 169; p. 1179.
Hosiery. Getmor Hosiery Mills. No. 83,244; Aug. 29; Gaz. vol. 169; p. 1180.
Hosiery. Marshall Field & Company. Nos. 83,266–7; Aug. 29; Gaz. vol. 169; p. 1181.
Hosiery. Nam-trah Knitting & Spinning Co. No. 83,346; Sept. 5; Gaz. vol. 170; p. 240.
Hosiery. The Vaughan Knitting Company. No. 83,374; Sept. 5; Gaz. vol. 170; p. 241.
Hosiery. Chas. Chipman's Sons. No. 83,393; Sept. 12; Gaz. vol. 170; p. 477.
Hosiery. Excelsior Knitting Mills. No. 83,398; Sept. 12; Gaz. vol. 170; p. 477.
Hosiery. Miller & Sons Co. No. 83,428; Sept. 12; Gaz. vol. 170; p. 478.
Hosiery. E. M. Townsend & Co. No. 83,449; Sept. 12; Gaz. vol. 170; p. 479.
Hosiery. G. & A. Wise. No. 83,461; Sept. 12; Gaz. vol. 170; p. 479.
Hosiery. Harris-Lipsitz Company. No. 83,736; Oct. 10; Gaz. vol. 171; p. 478.
Hosiery. Perfect Fit Hosiery Co. No. 83,767; Oct. 10; Gaz. vol. 171; p. 478.
Hosiery. T. H. Vanneman, Son & Co. No. 83,794; Oct. 10; Gaz. vol. 171; p. 479.
Hosiery. The H. B. Claflin Company. No. 83,897; Oct. 24; Gaz. vol. 171; p. 979.
Hosiery. Paramount Knitting Company. No. 84,035; Oct. 31; Gaz. vol. 171; p. 1254.
Hosiery. Marble Hose Company. No. 84,115; Nov. 7; Gaz. vol. 172; p. 256.
Hosiery. A. J. Boning. No. 84,455; Dec. 19; Gaz. vol. 173; p. 857.
Hosiery and reefers. H. C. Cohn & Co. No. 81,787; May 9; Gaz. vol. 166; p. 507.
Hosiery, Knit. Syracuse Dry Goods Co. No. 82,727; July 18; Gaz. vol. 168; p. 784.
Hosiery, knit underwear, and sweaters. M. P. Gold. No. 81,988; May 23; Gaz. vol. 166; p. 982.
Hosiery, Ladies'. Thieme Bros. Co. No. 82,482; June 27; Gaz. vol. 167; p. 979.
Hosiery, undershirts, drawers, &c. Dayton Dry Goods Co. No. 80,897; Feb. 14; Gaz. vol. 163; p. 477.
Hosiery, undershirts, vests, &c., Silk. Niagara Silk Mills. No. 82,463; June 27; Gaz. vol. 167; p. 979.
Household and bath-room fixtures, Certain. A. Hering. No. 81,708; May 2; Gaz. vol. 166; p. 246.
Hydrocarbon-engines. M. Rumely Company. No. 83,281; Aug. 29; Gaz. vol. 169; p. 1181.
Hydrogen peroxid. George Lueders & Co. No. 80,603; Jan. 10; Gaz. vol. 162; p. 534.
Ice. Isgrig Coal & Ice Company. No. 84,396; Dec. 12; Gaz. vol. 173; p. 579.
Ice-cream. Lagomarcine-Grupe Company. No. 84,240; Nov. 21; Gaz. vol. 172; p. 818.
Ice-cream and ices, Powder for. B. Heller & Company. No. 82,602; July 11; Gaz. vol. 168; p. 520.
Ice-cream and water-ices. Fern Candy Company. No. 82,315; June 20; Gaz. vol. 167; p. 758.
Ice-cream freezers. Acme Freezer Company. No. 83,120; Aug. 22; Gaz. vol. 169; p. 939.
Ice-creepers. Paul E. Lehman Co. No. 82,698; July 18; Gaz. vol. 168; p. 784.
Illuminating-prisms and glass tiles for building construction. American Bar Lock Company. No. 82,948; Aug. 8; Gaz. vol. 169; p. 445.

Incandescent mantles. Welsbach Company. No. 82,936; Aug. 1; Gaz. vol. 169; p. 201.
Incubators. The Park & Pollard Company. No. 83,597; Sept. 26; Gaz. vol. 170; p. 924.
Incubators, Laboratory-. Bausch & Lomb Optical Co. No. 82,750; July 25; Gaz. vol. 168; p. 1027.
Index cabinets, Card-. C. A. Honecker. No. 83,912; Oct. 24; Gaz. vol. 171; p. 980.
Ingots, blooms, slabs, and billets. The Pennsylvania Steel Company. No. 81,167; Mar. 7; Gaz. vol. 164; p. 246.
Inhalers. H. S. Maxim. No. 83,170; Aug. 22; Gaz. vol. 169; p. 940.
Inhalers. Jap-Blo Chemical Co. No. 83,415; Sept. 12; Gaz. vol. 170; p. 478.
Ink, Duplicating-. A. B. Dick Company. No. 81,204; Mar. 14; Gaz. vol. 164; p. 503.
Ink, Edge-. Pittman Ink Company. No. 81,026; Feb. 21; Gaz. vol. 163; p. 724.
Ink, Printing-. The Ault & Wiborg Co. No. 81,378; Apr. 4; Gaz. vol. 165; p. 237.
Ink, Printing-. The Ault & Wiborg Co. Nos. 82,860–1; Aug. 1; Gaz. vol. 169; p. 199.
Ink, Printing-. The Queen City Printing Ink Company. No. 83,355; Sept. 5; Gaz. vol. 170; p. 240.
Ink, Writing-. The United News and Stationery Company. No. 83,869; Oct. 17; Gaz. vol. 171; p. 741.
Inks and ink-powder. M. M. Levy. No. 81,342; Mar. 28; Gaz. vol. 164; p. 971.
Inks and writing fluids. Russia Cement Company. No. 82,645; July 11; Gaz. vol. 168; p. 521.
Inks and writing fluids. Sanford Manufacturing Co. No. 82,721; July 18; Gaz. vol. 168; p. 784.
Inks and writing fluids. L. H. Thomas Co. No. 82,731; July 18; Gaz. vol. 168; p. 785.
Inks, Drawing-. Frederick Charlton Company. No. 84,166; Nov. 14; Gaz. vol. 172; p. 545.
Inks in solid form, Writing-. S. T. Worcester. No. 83,960; Oct. 24; Gaz. vol. 171; p. 981.
Insect and vermin exterminating and disinfecting and deodorizing solution. F. E. Hall. No. 81,609; Apr. 25; Gaz. vol. 165; p. 968.
Insect and vermin exterminator, disinfectant, and talcum powder. Flash Chemical Co. No. 84,088; Nov. 7; Gaz. vol. 172; p. 255.
Insect-destroyers. Western Chemical Co. No. 81,766; May 2; Gaz. vol. 166; p. 248.
Insect-killing implements. United States Wire Mat Co. No. 83,617; Sept. 26; Gaz. vol. 170; p. 925.
Insecticide. E. A. White. No. 80,964; Feb. 14; Gaz. vol. 163; p. 479.
Insecticides. William Peterman Inc. No. 81,623; Apr. 25; Gaz. vol. 165; p. 968.
Insecticides. Bowker Insecticide Co. Nos. 82,409–10; June 27; Gaz. vol. 167; p. 977.
Insecticides. Barrett Manufacturing Company. No. 82,748; July 25; Gaz. vol. 168; p. 1027.
Insecticides and disinfectants. C. B. Rodes. No. 82,173; June 6; Gaz. vol. 167; p. 238.
Insulated electric-conductor wire. The Attix Electrical Engineering Company. No. 81,241; Mar. 21; Gaz. vol. 164; p. 735.
Insulated electric conductors and cables. F. M. Ferrin. No. 80,772; Jan. 31; Gaz. vol. 162; p. 1179.
Insulated electric wires and cables. Collyer Insulated Wire Company. No. 81,955; May 23; Gaz. vol. 166; p. 981.
Insulated receptacles, Vacuum-. Jsola Gesellschaft für Wärme- und Kälteisolierung m. b. H. No. 84,100; Nov. 7; Gaz. vol. 172; p. 256.
Insulated wires and cables. The Diamond Rubber Co. No. 81,329; Mar. 28; Gaz. vol. 164; p. 971.
Insulated wires and cables. Electric Cable Co. No. 82,504; July 4; Gaz. vol. 168; p. 245.
Insulating material, Heat-. Union Fibre Company. No. 82,926; Aug. 1; Gaz. vol. 169; p. 201.
Insulating materials, Heat-. C. H. Belknap. Nos. 82,671–3; July 18; Gaz. vol. 168; p. 783.
Insulating varnishes and compounds. John C. Dolph Co. No. 81,510; Apr. 18; Gaz. vol. 165; p. 725.
Insulators, Glass. The Brookfield Glass Company. No. 81,324; Mar. 28; Gaz. vol. 164; p. 971.
Iron and steel, Compound for case-hardening. E. F. Houghton & Company. Nos. 84,233–4; Nov. 21; Gaz. vol. 172; pp. 817–18.
Iron compound in plastic form. Smooth-On Manufacturing Company. No. 84,262; Nov. 21; Gaz. vol. 172; p. 818.
Ironing-boards. W. A. Kuhnert. No. 84,644; Dec. 26; Gaz. vol. 173; p. 1075.
Jackets, toques, sweaters, bootees, &c. Great Western Knitting Company. No. 82,432; June 27; Gaz. vol. 167; p. 978.
Jelly, Meringue. F. Scott. No. 83,363; Sept. 5; Gaz. vol. 170; p. 240.
Jewelry. The C. S. Williams Manufacturing Company. No. 81,838; May 9; Gaz. vol. 166; p. 509.
Jewelry. W. & S. Blackinton Company. No. 81,847; May 16; Gaz. vol. 166; p. 747.
Jewelry. Leys, Christie & Co. No. 82,699; July 18; Gaz. vol. 168; p. 784.
Jewelry. Potter and Buffington Company. No. 83,005; Aug. 8; Gaz. vol. 169; p. 446.
Jewelry. H. Glasser. No. 83,245; Aug. 29; Gaz. vol. 169; p. 1180.
Jewelry. Williams & Anderson Company. No. 84,202; Nov. 14; Gaz. vol. 172; p. 546.
Jewelry and precious-metal ware, Certain. I. Heidelsheimer. No. 83,249; Aug. 29; Gaz. vol. 169; p. 1180.
Jewelry, Certain. The Horton-Angell Company. No. 82,085; May 30; Gaz. vol. 166; p. 1278.
Jewelry, Certain. Ostby and Barton Company. No. 62,632; July 11; Gaz. vol. 168; p. 521.
Jute bagging for covering cotton. Young & Metzner. No. 83,463; Sept. 12; Gaz. vol. 170; p. 479.
Jute bags. Young & Metzner. Nos. 83,962–5; Oct. 24; Gaz. vol. 171; p. 981.
Jute bags. Young & Metzner. No. 84,053; Oct. 31; Gaz. vol. 171; p. 1255.
Kerosene. The Texas Company. No. 80,879; Feb. 7; Gaz. vol. 163; p. 228.
Kerosene. The Texas Company. No. 81,179; Mar. 7; Gaz. vol. 164; p. 246.
Kerosene. The Texas Company. No. 83,103; Aug. 15; Gaz. vol. 169; p. 698.
Kerosene, gasolene, lubricating-oils, &c. Omaha Oil Company. No. 80,940; Feb. 14; Gaz. vol. 163; p. 478.
Kinematographic films. Société Le Film D'Art. No. 82,026; May 23; Gaz. vol. 166; p. 983.
Knit garments, Woolen. W. Benger Söhne. No. 81,754; May 2; Gaz. vol. 166; p. 247.
Knit underwear. Carson, Pirie, Scott & Co. No. 80,892; Feb. 14; Gaz. vol. 163; p. 477.
Knit underwear. Carson, Pirie, Scott & Co. No. 81,589; Apr. 25; Gaz. vol. 165; p. 967.
Knit underwear. Springfield Knitting Co. No. 82,027; May 23; Gaz. vol. 166; p. 983.
Knit underwear. Springfield Knitting Co. No. 82,182; June 6; Gaz. vol. 167; p. 238.
Knit underwear. E. L. Ellithorp & Sons. No. 82,773; July 25; Gaz. vol. 168; p. 1028.
Knit underwear. Lax & Strauss. No. 82,995; Aug. 8; Gaz. vol. 169; p. 446.
Knit underwear. J. K. Stewart & Sons. No. 84,546; Dec. 19; Gaz. vol. 173; p. 729.
Knitted and textile undershirts, drawers, &c. Perfect Fit Hosiery Co. No. 81,293; Mar. 21; Gaz. vol. 164; p. 736.
Knitted articles, Certain. A. J. Mandel & Co. No. 82,705; July 18; Gaz. vol. 168; p. 784.
Knitted clothing, Certain. Union Mills. No. 84,702; Dec. 26; Gaz. vol. 173; p. 1077.
Knitted goods. Strawbridge & Clothier. No. 83,291; Aug. 29; Gaz. vol. 169; p. 1181.
Knitted jackets, undershirts, drawers, &c. J. Schiesser. No. 80,623; Jan. 10; Gaz. vol. 162; p. 534.
Knitted shirts, drawers, and hosiery. M. E. Smith & Co. No. 83,017; Aug. 8; Gaz. vol. 169; p. 447.
Knitted shirts, vests, drawers, and union suits. Brown Durrell Co. No. 80,827; Feb. 7; Gaz. vol. 163; p. 227.
Knitted undershirts, drawers, union suits, and hosiery. Cooper & Roe. No. 81,857; May 16; Gaz. vol. 166; p. 747.
Knitted underwear. Globe Knitting Works. No. 80,591; Jan. 10; Gaz. vol. 162; p. 533.
Knitted underwear. Supreme Underwear Mills. No. 81,832; May 9; Gaz. vol. 166; p. 508.
Knitted underwear. Elk Knitting Mills Company. No. 82,587; July 11; Gaz. vol. 168; p. 520.
Knitted underwear. Elk Knitting Mills Company. No. 83,236; Aug. 29; Gaz. vol. 169; p. 1180.
Knitted underwear. J. F. Quinn. No. 83,598; Sept. 26; Gaz. vol. 170; p. 925.
Knitted underwear, Cotton. D. D. Coldren. No. 82,963; Aug. 8; Gaz. vol. 169; p. 445.
Knitted vests, diapers, Gertrude skirts, &c. Marshall Knitting Co. No. 82,008; May 23; Gaz. vol. 166; p. 983.
Knitted vests, Ladies'. The Maline Mills Company. No. 83,589; Sept. 26; Gaz. vol. 170; p. 924.
Knitting machines, Automatic stocking-. The Hemphill Manufacturing Company. No. 81,272; Mar. 21; Gaz. vol. 164; p. 736.
Knives, Automatic. Eagle Pencil Company. No. 84,220; Nov. 21; Gaz. vol. 172; p. 817.
Knives, razors, razor-blades, and scissors. John J. Denton Limited. No. 81,328; Mar. 28; Gaz. vol. 164; p. 971.
Knives, razors, scissors, and shears, Pocket-. The Canton Cutlery Company. No. 82,205; June 13; Gaz. vol. 167; p. 509.
Knives, Steel carving-. Wm. A. Rogers. No. 84,131; Nov. 7; Gaz. vol. 172; p. 257.
Labeling-machines and parts thereof. Economic Machinery Company. No. 83,968; Oct. 24; Gaz. vol. 171; p. 981.
Labels, Gummed printed medicine-. The William A. Webster Co. No. 80,746; Jan. 24; Gaz. vol. 162; p. 996.
Labels, initials, and other embroidery foundations. G. Reis & Bro. No. 82,107; May 30; Gaz. vol. 166; p. 1278.
Lace, shawls, ribbon, elastic webbing, &c. Ward-Truitt Company. No. 80,883; Feb. 7; Gaz. vol. 163; p. 228.
Laces. A. & E. Henkels. No. 80,847; Feb. 7; Gaz. vol. 163; p. 227.

Alphabetical list of trade-marks—Continued.

Laces, nets, and nettings. Vari Lace Manufacturing Company. No. 82,385; June 20; Gaz. vol. 167; p. 760.
Lacing-hooks. Scovill Manufacturing Company. No. 80,555; Jan. 3; Gaz. vol. 162; p. 266.
Lacing-hooks for clothing. American Lacing Hook Co. No. 80,967; Feb. 21; Gaz. vol. 163; p. 723.
Lamp globes and shades, Glass. The Jefferson Glass Co. No. 82,091; May 30; Gaz. vol. 166; p. 1278.
Lamp mantles, Gas-. Cherokee Electrical Supply Company. No. 82,416; June 27; Gaz. vol. 167; p. 977.
Lamp mantles, Incandescent-. The Ideal Light Co. No. 81,219; Mar. 14; Gaz. vol. 164; p. 503.
Lamp regulators, Electric-. The Packard Electric Co. No. 83,353; Sept. 5; Gaz. vol. 170; p. 240.
Lamp sockets and receptacles, Electric-. Pass & Seymour. No. 82,253; June 13; Gaz. vol. 167; p. 511.
Lamp sockets, Electric-. Johns-Pratt Company. No. 81,808; May 9; Gaz. vol. 166; p. 508.
Lamp sockets, Incandescent-electric-. Weber Electric Company. No. 80,822; Jan. 31; Gaz. vol. 162; p. 1181.
Lamp-wicking, Cotton. R. Bishop. No. 81,321; Mar. 28; Gaz. vol. 164; p. 971.
Lamp-wickings. Fletcher Mfg. Co. No. 82,065; May 30; Gaz. vol. 166; p. 1277.
Lamps and lamp-fixtures, Gas-. Welsbach Company. No. 80,626; Jan. 10; Gaz. vol. 162; p. 534.
Lamps and mantles therefor, Gas and liquid-fuel. Deutsche Gasgluehlicht Aktiengesellschaft (Auergesellschaft). No. 84,085; Nov. 7; Gaz. vol. 172; p. 255.
Lamps, Automobile and motor-vehicle. Edmunds & Jones Mfg. Co. No. 81,511; Apr. 18; Gaz. vol. 165; p. 725.
Lamps, Electric. Macbeth-Evans Glass Co. No. 83,164; Aug. 22; Gaz. vol. 169; p. 940.
Lamps, Electric. Godinez-Marshall Company. No. 84,619; Dec. 26; Gaz. vol. 173; p. 1074.
Lamps, Electric-arc. The Globe Electric Company. No. 81,517; Apr. 18; Gaz. vol. 165; p. 725.
Lamps, Incandescent electric. New York Incandescent Lamp Company. No. 82,351; June 20; Gaz. vol. 167; p. 759.
Lamps, Incandescent electric. Eastern Electric Lamp Company. No. 82,503; July 4; Gaz. vol. 168; p. 245.
Lamps, Incandescent gas-. Crown Gas Light Co. No. 82,869; Aug. 1; Gaz. vol. 169; p. 199.
Lamps, Kerosene-. W. H. Hoffstat. No. 82,514; July 4; Gaz. vol. 168; p. 245.
Lamps, stoves, and burners and incandescent mantles. Howe & French. No. 83,412; Sept. 12; Gaz. vol. 170; p. 478.
Lamps, Tungsten electric. Lamont, Corliss & Company. No. 82,697; July 18; Gaz. vol. 168; p. 784.
Lanolin. Berliner Ceresin-Fabrik Graab & Kranich. No. 83,888; Oct. 24; Gaz. vol. 171; p. 979.
Lard compound. Natchez Packing Company. No. 82,165; June 6; Gaz. vol. 167; p. 238.
Lard substitute. Armour and Company. No. 83,126; Aug. 22; Gaz. vol. 169; p. 939.
Lathes. Lodge & Shipley Machine Tool Co. No. 84,242; Nov. 21; Gaz. vol. 172; p. 818.
Laundry-bags. J. M. Parker Manufacturing Company. No. 82,168; June 6; Gaz. vol. 167; p. 238.
Laundry preparation. P. J. Feipel. No. 83,568; Sept. 26; Gaz. vol. 170; p. 924.
Laxative candy lozenges. C. Partos. No. 82,820; July 25; Gaz. vol. 168; p. 1029.
Laxative confection. Sharp & Dohme. No. 82,115; May 30; Gaz. vol. 166; p. 1279.
Laxative preparation. P. Astier. No. 81,772; May 9; Gaz. vol. 166; p. 507.
Laxative preparation. Ex-Lax Mfg. Co. No. 83,823; Oct. 17; Gaz. vol. 171; p. 739.
Laxative tablets. P. P. Doell. No. 82,585; July 11; Gaz. vol. 168; p. 520.
Laxatives and digestives. The Inter American Drug and Trading Company. No. 84,488; Dec. 19; Gaz. vol. 173; p. 858.
Lead. National Lead Co. No. 83,175; Aug. 22; Gaz. vol. 169; p. 940.
Lead, pigments, colors, and paints, White. Eclipse White Lead and Color Company. No. 80,835; Feb. 7; Gaz. vol. 163; p. 227.
Leather and leather-goods polish. F. Künkler. No. 81,398; Apr. 4; Gaz. vol. 165; p. 237.
Leather and leather-goods polish. F. Künkler. No. 82,156; June 6; Gaz. vol. 167; p. 237.
Leather, Certain. Corona Kid Manufacturing Company. No. 82,681; July 18; Gaz. vol. 168; p. 783.
Leather, Certain. Richard Young Co. No. 83,464; Sept. 12; Gaz. vol. 170; p. 479.
Leather, Enameled. Chester Enamelling Company. No. 81,198; Mar. 14; Gaz. vol. 164; p. 503.
Leather, fiber, belting, and rope polishing and emollient compound. J. W. Cole & Co. No. 83,636; Oct. 3; Gaz. vol. 171; p. 209.
Leather, Finished. A. C. Lawrence Leather Co. No. 83,586; Sept. 26; Gaz. vol. 170; p. 924.
Leather goods, Certain machinery and tools for. Peerless Machinery Company. No. 84,673; Dec. 26; Gaz. vol. 173; p. 1076.
Leather, Harness and sole. W. W. Haines Tanning Company. No. 84,228; Nov. 21; Gaz. vol. 172; p. 817.
Leather, Imitation. E. I. du Pont de Nemours Powder Company. No. 84,611; Dec. 26; Gaz. vol. 173; p. 1074.
Leather, Kid-. Castle Kid Co. No. 83,221; Aug. 29; Gaz. vol. 169; p. 1179.
Leather, Lace-. H. E. Engelsmann. No. 80,587; Jan. 10; Gaz. vol. 162; p. 533.
Leather, Patent and glazed. V. V. Lattarulo. No. 84,401; Dec. 12; Gaz. vol. 173; p. 579.
Leather, Patterned or decorated. Luxemoor Leather Co. No. 83,078; Aug. 15; Gaz. vol. 169; p. 698.
Leather-polish. The Adelphi Polish Company. No. 84,444; Dec. 19; Gaz. vol. 173; p. 857.
Leather-softening composition. Niedringhaus & Koeneke. No. 81,286; Mar. 21; Gaz. vol. 164; p. 736.
Leather, Sole-. The Penketh Tanning Co. No. 83,433; Sept. 12; Gaz. vol. 170; p. 478.
Leather, Sole-. F. P. Cover & Sons. No. 83,989; Oct. 31; Gaz. vol. 171; p. 1253.
Leather, Vegetable-tanned. A. F. Gallun & Sons. Nos. 83,571–3; Sept. 26; Gaz. vol. 170; p. 924.
Leather waterproofing and preservative paste. Providence Oil Co. No. 84,675; Dec. 26; Gaz. vol. 173; p. 1076.
Leathers for boots and shoes. Traugott Schmidt & Sons. No. 83,294; Aug. 29; Gaz. vol. 169; p. 1181.
Legging-drawers. Rosenwasser Brothers. No. 81,747; May 2; Gaz. vol. 166; p. 247.
Lemons. Limoneira Company. No. 84,647; Dec. 26; Gaz. vol. 173; p. 1075.
Lenses, Optical. Meyer Cahn & Talbott. No. 84,459; Dec. 19; Gaz. vol. 173; p. 857.
Letter and shipping sheets and shipping-tags. Capital Advertising Company. No. 84,361; Dec. 5; Gaz. vol. 173; p. 283.
Licorice paste. MacAndrews & Forbes Company. No. 84,018; Oct. 31; Gaz. vol. 171; p. 1254.
Life-saving and swimming apparatus. J. S. Bartholomew. No. 80,508; Jan. 3; Gaz. vol. 162; p. 265.
Lifting-jacks. The Duff Manfg. Co. No. 82,310; June 20; Gaz. vol. 167; p. 758.
Lifting-jacks. The Buda Company. No. 83,893; Oct. 24; Gaz. vol. 171; p. 979.
Lighting and heating systems and parts thereof, Acetylene, gasolene, and kerosene. Black Swan Co. No. 83,633; Oct. 3; Gaz. vol. 171; p. 209.
Lighting apparatus, Certain. Windhorst & Company. No. 81,651; Apr. 25; Gaz. vol. 165; p. 969.
Lightning-rods. "Electra" Lightning Rod Co. No. 81,969; May 23; Gaz. vol. 166; p. 981.
Lime. Arkansas Lime Company. No. 80,507; Jan. 3; Gaz. vol. 162; p. 265.
Lime. The Ohio & Western Lime Co. No. 82,103; May 30; Gaz. vol. 166; p. 1278.
Linen and damask goods. Joseph Mathers, Limited. No. 81,616; Apr. 25; Gaz. vol. 165; p. 968.
Linen piece goods, table-cloths, and napkins. Strawbridge & Clothier. No. 81,756; May 2; Gaz. vol. 166; p. 247.
Liniment. Cambria Drug and Manufacturing Company. No. 80,705; Jan. 24; Gaz. vol. 162; p. 995.
Liniment. J. Férant. No. 81,209; Mar. 14; Gaz. vol. 164; p. 503.
Liniment. Jacob Strohauer & Sons' Co. No. 81,642; Apr. 25; Gaz. vol. 165; p. 969.
Liniment. E. Cermak. No. 82,208; June 13; Gaz. vol. 167; p. 509.
Liniment. Taxine Manufacturing Company. No. 82,276; June 13; Gaz. vol. 167; p. 511.
Liniment. Ex Lax Manufacturing Co. No. 82,427; June 27; Gaz. vol. 167; p. 978.
Liniment. W. M. Akin Medicine Company. No. 83,803; Oct. 17; Gaz. vol. 171; p. 739.
Liniment. S. Oberg. No. 83,852; Oct. 17; Gaz. vol. 171; p. 740.
Liniment. A. N. Kjellander. No. 83,921; Oct. 24; Gaz. vol. 171; p. 980.
Liniment. Goiteroid Medicine Co. No. 84,091; Nov. 7; Gaz. vol. 172; p. 255.
Liniment. A. A. Schoenheit. No. 84,257; Nov. 21; Gaz. vol. 172; p. 818.
Liniment. Ramer Medicine Co. No. 84,410; Dec. 12; Gaz. vol. 173; p. 580.
Liniment. H. L. Tippit. No. 84,697; Dec. 26; Gaz. vol. 173; p. 1077.
Liniment and ointment, Combined. Coffman & Bloch. No. 84,597; Dec. 26; Gaz. vol. 173; p. 1074.
Liniment, Horse-. O. Funk. No. 81,453; Apr. 11; Gaz. vol. 165; p. 470.
Liniment, Nerve and bone. R. E. Atkinson. No. 81,048; Feb. 28; Gaz. vol. 163; p. 973.
Liniment, Veterinary. E. E. Schell. No. 80,955; Feb. 14; Gaz. vol. 163; p. 479.
Liniments. Lanman & Kemp. No. 81,726; May 2; Gaz. vol. 166; p. 247.
Liniments. Pitre Bros. No. 81,906; May 16; Gaz. vol. 166; p. 748.
Liniments. J. Benito. No. 81,948; May 23; Gaz. vol. 166; p. 981.
Liniments. Lanman & Kemp. Nos. 82,158–9; June 6; Gaz. vol. 167; p. 237.
Liniments. S. R. Deacon. No. 82,579; July 11; Gaz. vol. 168; p. 520.

Alphabetical list of trade-marks—Continued.

Liniments. G. Adler & Co. No. 82,741; July 25; Gaz. vol. 168; p. 1027.
Liniments. E. Brunner. No. 83,135; Aug. 22; Gaz. vol. 169; p. 939.
Liniments and ointments, disinfectants, and remedies for animals. Advanced Chemical Company. No. 83,881; Oct. 24; Gaz. vol. 171; p. 979.
Liqueur of cognac. Gautier frères. No. 82,783; July 25; Gaz. vol. 168; p. 1028.
Liquid-dispensing apparatus. The Charles E. Hires Company. No. 81,004; Feb. 21; Gaz. vol. 163; p. 724.
Liquors, Certain distilled alcoholic. Turner-Looker Co. No. 83,193; Aug. 22; Gaz. vol. 169; p. 941.
Literary compositions published serially. R. Fulkerson. No. 83,570; Sept. 26; Gaz. vol. 170; p. 924.
Lobsters, Fresh. Fred B. Higgins Co. No. 83,836; Oct. 17; Gaz. vol. 171; p. 740.
Lockets. J. C. Daniels. No. 84,171; Nov. 14; Gaz. vol. 172; p. 545.
Locks. Safety Water Company. No. 82,363; June 20; Gaz. vol. 167; p. 759.
Logs and lumber. W. D. Smith. No. 81,308; Mar. 21; Gaz. vol. 164; p. 737.
Loom-shuttles. Woonsocket Shuttle Company. No. 81,116; Feb. 28; Gaz. vol. 163; p. 975.
Loom-supplies. Garland Manufacturing Co. No. 81,515; Apr. 18; Gaz. vol. 165; p. 725.
Looms for weaving. Hutchinson, Hollingworth & Co. No. 83,494; Sept. 19; Gaz. vol. 170; p. 700.
Loose-sheet holders. The Heinn Company. No. 82,981; Aug. 8; Gaz. vol. 169; p. 446.
Lotion for the complexion. E. B. Harrington & Co. No. 81,334; Mar. 28; Gaz. vol. 164; p. 971.
Lotion for the head and hair. Ray Sporting Goods Manufacturing Company. No. 83,094; Aug. 15; Gaz. vol. 169; p. 698.
Lotions, Skin-. E. Duaei. No. 80,585; Jan. 10; Gaz. vol. 162; p. 533.
Lubricating compounds. G. Appleby. No. 83,883; Oct. 24; Gaz. vol. 171; p. 979.
Lubricators. The Lunkenheimer Company. No. 83,662; Oct. 3; Gaz. vol. 171; p. 210.
Lubricators. The Lunkenheimer Company. Nos. 83,668–9; Oct. 3; Gaz. vol. 171; p. 210.
Lubricators. The Lunkenheimer Company. No. 83,671; Oct. 3; Gaz. vol. 171; p. 210.
Lubricators. The Lunkenheimer Company. No. 83,678; Oct. 3; Gaz. vol. 171; p. 210.
Lubricators. The Lunkenheimer Company. No. 84,325; Nov. 28; Gaz. vol. 172; p. 1085.
Lumber. H. Forchheimer. Nos. 81,451–2; Apr. 11; Gaz. vol. 165; p. 469.
Lumber. H. Forchheimer. No. 82,318; June 20; Gaz. vol. 167; p. 758.
Lumber. Chiesa Hermanos. No. 82,439; June 27; Gaz. vol. 167; p. 978.
Lye. Eagle Lye Works. No. 81,384; Apr. 4; Gaz. vol. 165; p. 237.
Lye or potash. B. T. Babbitt. No. 81,946; May 23; Gaz. vol. 166; p. 981.
Macaroni. Colombo Macaroni Manufacturing Company. No. 81,436; Apr. 11; Gaz. vol. 165; p. 469.
Macaroni and vermicelli. San Antonio Macaroni Company. No. 82,177; June 6; Gaz. vol. 167; p. 238.
Macaroni paste foods. Maryland Macaroni Company. No. 80,540; Jan. 3; Gaz. vol. 162; p. 266.
Macaroni, spaghetti, and vermicelli. D. Cini. No. 81,251; Mar. 21; Gaz. vol. 164; p. 735.
Macaroni, spaghetti, vermicelli, &c. Piccardo Macaroni Company. No. 84,674; Dec. 26; Gaz. vol. 173; p. 1076.
Macaroni, spaghetti, vermicelli, and noodles. The Foulds Milling Company. No. 82,507; July 4; Gaz. vol. 168; p. 245.
Macaroni, spaghetti, vermicelli, and noodles. The Foulds Milling Company. No. 84,615; Dec. 26; Gaz. vol. 173; p. 1074.
Macaroni, vermicelli, spaghetti, egg-noodles. L. R. Lorenz. No. 83,501; Sept. 19; Gaz. vol. 170; p. 700.
Macaronic paste foods. The Cleveland Macaroni Company. No. 81,785; May 9; Gaz. vol. 166; p. 507.
Machine, Certain. The Baumgaertner-Patrick Co. No. 84,207; Nov. 21; Gaz. vol. 172; p. 817.
Machine-tools, Certain. F. Bischoff. No. 82,402; June 27; Gaz. vol. 167; p. 977.
Machines and tools. William Jessop & Sons. No. 81,010; Feb. 21; Gaz. vol. 163; p. 724.
Machines, Certain. W. R. Harrison. No. 84,097; Nov. 7; Gaz. vol. 172; p. 256.
Machines, tools, and parts thereof. Aktiebolaget B. A. Hjorth & Co. No. 80,567; Jan. 10; Gaz. vol. 162; p. 533.
Machinery and parts thereof, Certain. The Janesville Machine Company. No. 82,990; Aug. 8; Gaz. vol. 169; p. 446.
Machinery and parts thereof, Certain. J. I. Case Plow Works. No. 83,220; Aug. 29; Gaz. vol. 169; p. 1179.
Machinery and parts thereof, Certain. Deutsche Waffen- und Munitionsfabriken. No. 84,381; Dec. 12; Gaz. vol. 173; p. 579.
Machinery and tools and parts thereof. Byron Jackson Iron Works. Nos. 83,474–5; Sept. 19; Gaz. vol. 170; p. 699.
Machinery and tools, Certain. William Jessop & Sons. No. 81,394; Apr. 4; Gaz. vol. 165; p. 237.
Machinery, Certain. The Kellow Rock Drill Syndicate Limited. No. 81,340; Mar. 28; Gaz. vol. 164; p. 971.
Machinery, Certain. The Gas Machinery Co. No. 81,693; May 2; Gaz. vol. 166; p. 246.
Machinery, Certain. Werner & Pfleiderer. No. 81,765; May 2; Gaz. vol. 166; p. 248.
Machinery, Certain. John Brown & Co. No. 82,755; July 25; Gaz. vol. 168; p. 1027.
Machinery, Certain. "Selas" Gesellschaft mit beschränkter Haftung. No. 84,344; Nov. 28; Gaz. vol. 172; p. 1086.
Machinery, Certain specified. Aktiebolaget Pump-Separator. No. 84,204; Nov. 21; Gaz. vol. 172; p. 817.
Machinery, cutlery, tools, and parts thereof. C. Hermanos. No. 83,156; Aug. 22; Gaz. vol. 169; p. 940.
Magazine. J. C. Seyler. No. 81,828; May 9; Gaz. vol. 166; p. 508.
Magazine. Allis-Chalmers Company. No. 83,122; Aug. 22; Gaz. vol. 169; p. 939.
Magazine, Monthly. C. F. Sudwarth. No. 82,120; May 30; Gaz. vol. 166; p. 1279.
Magazine, Monthly. Foster Art Pub. Co. No. 83,725; Oct. 10; Gaz. vol. 171; p. 477.
Magazine, Monthly. John Adams Thayer Corporation. No. 83,868; Oct. 17; Gaz. vol. 171; p. 741.
Magazine, Monthly. The Ambassador Company. No. 84,446; Dec. 19; Gaz. vol. 173; p. 857.
Magazine, Monthly. The Century Co. No. 84,593; Dec. 26; Gaz. vol. 173; p. 1074.
Magazine published annually. The Republican Publishing Company. No. 83,945; Oct. 24; Gaz. vol. 171; p. 981.
Magazine, Weekly. Curtis Publishing Company. No. 81,055; Feb. 28; Gaz. vol. 163; p. 973.
Magazine, Weekly. Electrical Review Publishing Company. No. 83,150; Aug. 22; Gaz. vol. 169; p. 940.
Magazines. Theatre Magazine Company. No. 82,481; June 27; Gaz. vol. 167; p. 979.
Magazines, Monthly. The Banker's Publishing Co. No. 80,568; Jan. 10; Gaz. vol. 162; p. 533.
Magazines, Monthly. The S. E. Cassino Company. No. 81,124; Mar. 7; Gaz. vol. 164; p. 245.
Magazines, Monthly. Sampson Publishing Company. No. 81,736; May 2; Gaz. vol. 166; p. 247.
Magazines, Monthly. Ladies Home Magazine Company. No. 82,157; June 6; Gaz. vol. 167; p. 237.
Magazines, Monthly. Western Magazines Co. No. 82,189; June 6; Gaz. vol. 167; p. 238.
Magazines, Monthly. The Sampson Publishing Company. No. 83,009; Aug. 8; Gaz. vol. 169; p. 447.
Magazines, Serial. Orange Judd Company. No. 80,611; Jan. 10; Gaz. vol. 162; p. 534.
Magazines, Serial. Orange Judd Company. No. 81,292; Mar. 21; Gaz. vol. 164; p. 736.
Magazines, Weekly. Rider and Driver Publishing Co. No. 81,630; Apr. 25; Gaz. vol. 165; p. 969.
Magnesite. American Refractories Company. No. 84,158; Nov. 14; Gaz. vol. 172; p. 545.
Magnetos. Marburg Brothers. No. 84,244; Nov. 21; Gaz. vol. 172; p. 818.
Magnifying glasses and lenses. American Optical Company. No. 83,125; Aug. 22; Gaz. vol. 169; p. 939.
Malt and hops, Extract of. H. Wennersten. No. 81,374; Mar. 28; Gaz. vol. 164; p. 972.
Malt extract. E. Loeflund & Co. No. 80,724; Jan. 24; Gaz. vol. 162; p. 996.
Malt extract. Reisch Brewing Co. No. 82,361; June 20; Gaz. vol. 167; p. 759.
Malt extract. Conrad Seipp Brewing Co. No. 82,473; June 27; Gaz. vol. 167; p. 979.
Malt extracts, Certain. Kathreiners Malzkaffee-Fabriken, Gesellschaft mit beschränkter Haftung. Nos. 82,694–6; July 18; Gaz. vol. 168; p. 783.
Malt liquors, Foam-producing compound for. T. L. Straus. Nos. 82,118–19; May 30; Gaz. vol. 166; p. 1279.
Malt tonic. Ashland Brewing Co. No. 80,886; Feb. 14; Gaz. vol. 163; p. 477.
Mandolins. The Rudolph Wurlitzer Co. No. 81,044; Feb. 21; Gaz. vol. 163; p. 725.
Mangles, ironers, starchers, and laundry-extractors. The Triumph Laundry Machinery Company. No. 82,925; Aug. 1; Gaz. vol. 169; p. 201.
Manicure and pedicure instruments. Gerber-Buschmann Cutlery & Silverware Co. No. 82,880; Aug. 1; Gaz. vol. 169; p. 199.
Maraschino cherries, almonds, honey nougatines, &c. Samoset Chocolates Co. No. 82,646; July 11; Gaz. vol. 168; p. 521.
Marbles, Playing-. Akro Agate Company. No. 83,121; Aug. 22; Gaz. vol. 169; p. 939.
Masonry materials, Waterproofing compounds for use with plastic. The Aquabar Co. No. 82,397; June 27; Gaz. vol. 167; p. 977.
Massage apparatus, Vibratory. Eureka Vibrator Co. No. 82,063; May 30; Gaz. vol. 166; p. 1277.

Alphabetical list of trade-marks—Continued.

Massage-machines. Eureka Vibrator Co. No. 83,563; Sept. 26; Gaz. vol. 170; p. 923.
Massaging devices. The Auto-Maid Co. No. 83,384; Sept. 12; Gaz. vol. 170; p. 477.
Matches. Sommers Brothers Match Company. No. 81,034; Feb. 21; Gaz. vol. 163; p. 725.
Matches. Haldens Tændstikfabrik. Nos. 81,700–1; May 2; Gaz. vol. 166; p. 246.
Matches. Ohio Match Company. No. 82,016; May 23; Gaz. vol. 166; p. 983.
Matches. Grantorpets Tändsticksfabriks Aktiebolag. No. 82,076; May 30; Gaz. vol. 166; p. 1278.
Matches. Junebro Aktiebolag. No. 82,893; Aug. 1; Gaz. vol. 169; p. 200.
Matches. Köbenhavns Export Tændstikfabrik (Société Anonyme). No. 83,744; Oct. 10; Gaz. vol. 171; p. 478.
Matches. Köbenhavns Export Tændstikfabrik, (Société Anonyme.) No. 83,844; Oct. 17; Gaz. vol. 171; p. 740.
Matches. Köbenhavns Export Tændstikfabrik (Société Anonyme). No. 83,922; Oct. 24; Gaz. vol. 171; p. 980.
Matches, Safety-. Nitedals Tændstikfabrik. No. 81,287; Mar. 21; Gaz. vol. 164; p. 736.
Matrices, type-forms, electrotypes, &c. The National Press. No. 80,541; Jan. 3; Gaz. vol. 162; p. 266.
Mattresses. A. C. Rick. No. 81,743; May 2; Gaz. vol. 166; p. 247.
Mattresses. Columbia Mattress Co. No. 83,324; Sept. 5; Gaz. vol. 170; p. 239.
Mattresses. Stockwell-Haley Co. No. 84,142; Nov. 7; Gaz. vol. 172; p. 257.
Mattresses and beds. Hirsch & Spitz Mfg. Co. No. 81,005; Feb. 21; Gaz. vol. 163; p. 724.
Mattresses and spring-beds. The M. A. Hunt Company. Nos. 84,633–4; Dec. 26; Gaz. vol. 173; p. 1075.
Meal, Granulated. Valley City Milling Co. No. 82,659; July 11; Gaz. vol. 168; p. 522.
Meal, Linseed-oil. Fredonia Linseed Oil Works. No. 83,485; Sept. 19; Gaz. vol. 170; p. 699.
Measures, Dry. Wheeling Corrugating Company. No. 83,115; Aug. 15; Gaz. vol. 169; p. 699.
Measuring and scientific appliances, Certain. Optische Anstalt C. P. Goerz Aktiengesellschaft. No. 83,089; Aug. 15; Gaz. vol. 169; p. 698.
Medals, badges, charms, and rings. Dieges & Clust. No. 80,583; Jan. 10; Gaz. vol. 162; p. 533.
Medical and surgical appliances, Certain. The Walter F. Ware Company. No. 81,761; May 2; Gaz. vol. 166; p. 248.
Medical and surgical appliances, Certain. E. H. Sadtler. No. 84,192; Nov. 14; Gaz. vol. 172; p. 546.
Medical and surgical purposes, Vacuum apparatus for. G. Shilling. No. 82,918; Aug. 1; Gaz. vol. 169; p. 201.
Medical antiseptic. F. A. Luyties. No. 81,614; Apr. 25; Gaz. vol. 165; p. 968.
Medicated chewing-gum. L. Sensburg. No. 84,259; Nov. 21; Gaz. vol. 172; p. 818.
Medicated detergent for cleansing the teeth. E. W. Dodez. No. 80,992; Feb. 21; Gaz. vol. 163; p. 723.
Medicated lozenges. A. T. Brown. No. 81,300; Mar. 21; Gaz. vol. 164; p. 736.
Medicated plasters, salves, ointments, and liniments. The Indiana Chemical Co. No. 81,722; May 2; Gaz. vol. 166; p. 246.
Medicated salt for stock. J. E. Robbins. No. 82,472; June 27; Gaz. vol. 167; p. 979.
Medicated tablets and wafers. Deer-Lax Chemical Company. No. 83,054; Aug. 15; Gaz. vol. 169; p. 697.
Medicated throat-pastils. Evans Sons Lescher & Webb. No. 81,446; Apr. 11; Gaz. vol. 165; p. 469.
Medicinal bitters. Presto Bitters Co. No. 82,172; June 6; Gaz. vol. 167; p. 238.
Medicinal blood-tonic. M. Di Donato. No. 82,586; July 11; Gaz. vol. 168; p. 520.
Medicinal compound for sore throat and diphtheria. J. Longwell & Son. No. 81,399; Apr. 4; Gaz. vol. 165; p. 237.
Medicinal cordial. The Palisade Manufacturing Co. No. 81,166; Mar. 7; Gaz. vol. 164; p. 246.
Medicinal cordials. P. J. Kennedy & Co. No. 83,585; Sept. 26; Gaz. vol. 170; p. 924.
Medicinal cream for external application. H. G. Davis. No. 82,765; July 25; Gaz. vol. 168; p. 1027.
Medicinal pill. American Home Remedy Company. No. 84,447; Dec. 19; Gaz. vol. 173; p. 857.
Medicinal pills. W. Brass. No. 84,208; Nov. 21; Gaz. vol. 172; p. 817.
Medicinal pills, tablets, and capsules. A. Horowitz. No. 81,006; Feb. 21; Gaz. vol. 163; p. 724.
Medicinal plasters. Johnson & Johnson. No. 81,339; Mar. 28; Gaz. vol. 164; p. 971.
Medicinal plasters. Chemische Fabrik Helfenberg A.-G. vorm. Eugen Dieterich. No. 81,784; May 9; Gaz. vol. 166; p. 507.
Medicinal plasters. J. B. Conway. No. 83,049; Aug. 15; Gaz. vol. 169; p. 697.
Medicinal plasters and liniments. H. T. Morgan. No. 81,283; Mar. 21; Gaz. vol. 164; p. 736.
Medicinal powder. Farbwerke vorm. Meister Lucius & Brüning. No. 81,388; Apr. 4; Gaz. vol. 165; p. 237.
Medicinal preparation. W. H. Bull Medicine Company. No. 80,703; Jan. 24; Gaz. vol. 162; p. 995.
Medicinal preparation. Dr. A. Gude & Co. Gesellschaft mit beschrankter Haftung. No. 84,094; Nov. 7; Gaz. vol. 172; p. 255.
Medicinal preparation, Certain. G. Boush. No. 82,296; June 20; Gaz. vol. 167; p. 757.
Medicinal preparation, Certain. P. P. Cresap. No. 83,899; Oct. 24; Gaz. vol. 171; p. 979.
Medicinal preparation for the feet. F. Le Han. No. 82,614; July 11; Gaz. vol. 168; p. 521.
Medicinal preparation for the treatment of the skin. W. J. Scully. No. 81,551; Apr. 18; Gaz. vol. 165; p. 726.
Medicinal preparations. Chemische Fabrik Helfenberg A. G. vorm. Eugen Dieterich. No. 84,309; Nov. 28; Gaz. vol. 172; p. 1085.
Medicinal preparations. A. Wedemeyer. No. 84,557; Dec. 19; Gaz. vol. 173; p. 860.
Medicinal preparations, Certain. Dux Emollient Company. No. 84,382; Dec. 12; Gaz. vol. 173; p. 579.
Medicinal silver preparations. Chemische Fabrik auf Actien (vorm. E. Schering). No. 80,761; Jan. 31; Gaz. vol. 162; p. 1179.
Medicinal suppository. Davis & Davis. No. 80,766; Jan. 31; Gaz. vol. 162; p. 1179.
Medicinal tablets. The C. E. Gallagher Medicine Company. No. 84,479; Dec. 19; Gaz. vol. 173; p. 858.
Medicinal tablets for coughs, colds, asthma, &c. E. C. Getsinger. No. 84,001; Oct. 31; Gaz. vol. 171; p. 1253.
Medicinal tonic. Hoffmann-La Roche Chemical Works. No. 80,718; Jan. 24; Gaz. vol. 162; p. 995.
Medicinal tonic. Chew Pack Company. No. 81,053; Feb. 28; Gaz. vol. 163; p. 973.
Medicinal tonic. D. T. Boozer. No. 81,582; Apr. 25; Gaz. vol. 165; p. 967.
Medicinal tonic. Kerr & Warren. No. 82,610; July 11; Gaz. vol. 168; p. 520.
Medicinal tonic and nervine. F. A. Terzia. No. 84,346; Nov. 28; Gaz. vol. 172; p. 1086.
Medicinal tonics. J. Benito. No. 81,949; May 23; Gaz. vol. 166; p. 981.
Medicinal tonics. E. S. Sibley. No. 82,264; June 13; Gaz. vol. 167; p. 511.
Medicinal wine. E. Courtade. No. 84,466; Dec. 19; Gaz. vol. 173; p. 857.
Medicine, Certain. J. Marone. No. 84,326; Nov. 28; Gaz. vol. 172; p. 1085.
Medicine, Digestive, laxative, &c. H. A. Kampfmueller. No. 82,608; July 11; Gaz. vol. 168; p. 520.
Medicine for affections of the throat. M. Di Ielsi. No. 84,217; Nov. 21; Gaz. vol. 172; p. 817.
Medicine for animals. Rural Home Chemical Company. No. 80,680; Jan. 17; Gaz. vol. 162; p. 780.
Medicine for certain diseases. G. F. Reiser. No. 81,628; Apr. 25; Gaz. vol. 165; p. 968.
Medicine for certain diseases. M. Spiegel. No. 84,694; Dec. 26; Gaz. vol. 173; p. 1077.
Medicine for chills and fevers. Grandma's Remedy Co. No. 82,787; July 25; Gaz. vol. 168; p. 1028.
Medicine for diseases of the lungs. Rescue Medicine Co. No. 81,028; Feb. 21; Gaz. vol. 163; p. 724.
Medicine for external and internal use, Certain. J. E. Fox. No. 81,210; Mar. 14; Gaz. vol. 164; p. 503.
Medicine for gonorrhea and gleet. E. Price Chemical Co. No. 82,469; June 27; Gaz. vol. 167; p. 979.
Medicine for relieving the pains of confinement. A. Cárdenas hijo. No. 83,714; Oct. 10; Gaz. vol. 171; p. 477.
Medicine for rheumatism. J. Penard & Mrs. A. Myers. No. 81,097; Feb. 28; Gaz. vol. 163; p. 974.
Medicine for treatment of cancers. B. F. Byrd. No. 84,457; Dec. 19; Gaz. vol. 173; p. 857.
Medicine, namely a kefir preparation. A. Rosenberger. No. 82,262; June 13; Gaz. vol. 167; p. 511.
Medicine to be applied externally. H. F. Gau. No. 83,486; Sept. 19; Gaz. vol. 170; p. 699.
Medicine, Tonic. J. K. Neagley. No. 82,625; July 11; Gaz. vol. 168; p. 521.
Medicine used as a nerve-tonic, &c. The Vero Chemical Co. No. 81,489; Apr. 11; Gaz. vol. 165; p. 471.
Medicines and chemicals, Certain named. H. D. Lee Mercantile Company. No. 81,279; Mar. 21; Gaz. vol. 164; p. 736.
Medicines and pharmaceutical preparations, Certain. Associated Pharmacists Co. No. 83,539; Sept. 26; Gaz. vol. 170; p. 923.
Medicines and remedies for certain diseases, Certain. Vaughn-Crutchfield Co. No. 84,442; Dec. 12; Gaz. vol. 173; p. 581.
Medicines, Certain. Virginia Medical Co. No. 83,453; Sept. 12; Gaz. vol. 170; p. 479.
Medicines, Certain. Scott & Gilbert Co. No. 84,135; Nov. 7; Gaz. vol. 172; p. 257.
Medicines, Certain herb. Monicke Herb Company. No. 83,684; Oct. 3; Gaz. vol. 171; p. 210.
Medicines for bowel, stomach, blood, and liver disorders. Theo. Noel Company. No. 80,672; Jan. 17; Gaz. vol. 162; p. 780.
Medicines for domestic animals. M. Lampront. No. 81,085; Feb. 28; Gaz. vol. 163; p. 974.
Medicines for the treatment of inflammatory and septic conditions of the vagina. The French Mfg. Co. No. 84,313; Nov. 28; Gaz. vol. 172; p. 1085.

Alphabetical list of trade-marks—Continued.

Medicines for tuberculosis of the lungs. F. M. Sears. No. 81,636; Apr. 25; Gaz. vol. 165; p. 969.
Memorandum-pad holding and illuminating devices, Combined. Weis Manufacturing and Supply Co. No. 84,201; Nov. 14; Gaz. vol. 172; p. 546.
Menthol-salt spirit. Diana Company. No. 84,606; Dec. 26; Gaz. vol. 173; p. 1074.
Metal alloys. L. S. Bache. No. 82,197; June 13; Gaz. vol. 167; p. 509.
Metal alloys. American Vanadium Company. Nos. 83,308–9; Sept. 5; Gaz. vol. 170; p. 239.
Metal and cut-glass polishing and cleansing material. A. R. Justice Company. No. 82,799; July 25; Gaz. vol. 168; p. 1028.
Metal, Babbitt. Hoyt Metal Company. No. 80,720; Jan. 24; Gaz. vol. 162; p. 995.
Metal, Babbitt. The Eagle White Lead Company. No. 82,217; June 13; Gaz. vol. 167; p. 509.
Metal, Babbitt. The M. M. M. Babbitt Company. No. 84,017; Oct. 31; Gaz. vol. 171; p. 1254.
Metal, Babbitt. The Eagle White Lead Company. Nos. 84,612–13; Dec. 26; Gaz. vol. 173; p. 1074.
Metal castings. H. F. Livermore. No. 81,014; Feb. 21; Gaz. vol. 163; p. 724.
Metal, Composition white-. C. E. Hansen. No. 82,790; July 25; Gaz. vol. 168; p. 1028.
Metal, Expanded. Northwestern Expanded Metal Co. No. 82,531; July 4; Gaz. vol. 168; p. 246.
Metal plates, strips, and uninsulated wire. Driver-Harris Wire Co. No. 81,796; May 9; Gaz. vol. 166; p. 507.
Metal-polish. H. A. Wright. No. 80,564; Jan. 3; Gaz. vol. 162; p. 266.
Metal-polish. L. W. Lewis. No. 81,086; Feb. 28; Gaz. vol. 163; p. 974.
Metal-polish. M. Loewenstein. No. 81,344; Mar. 28; Gaz. vol. 164; p. 972.
Metal-polish. Woodington Manufacturing Company. No. 82,393; June 20; Gaz. vol. 167; p. 760.
Metal-polish. J. T. Blair. No. 82,752; July 25; Gaz. vol. 168; p. 1027.
Metal-polish. The Beckley Ralston Co. No. 83,631; Oct. 3; Gaz. vol. 171; p. 209.
Metal-polish. Charles H. Rath Company. No. 83,772; Oct. 10; Gaz. vol. 171; p. 479.
Metal-polish. The Puritan Company. No. 84,676; Dec. 26; Gaz. vol. 173; p. 1076.
Metal-polish and polishing-cloths. Cary-Dane Manufacturing Co. No. 82,137; June 6; Gaz. vol. 167; p. 237.
Metal-polishes. P. N. Friedlaender. No. 81,514; Apr. 18; Gaz. vol. 165; p. 725.
Metal-polishes. F. Scidmore. No. 84,533; Dec. 19; Gaz. vol. 173; p. 859.
Metal, sheet-bronze, and bronze wire, Babbitt. Charles H. Besly & Company. No. 80,570; Jan. 10; Gaz. vol. 162; p. 533.
Metal thermoplates. The Pasteur-Chamberland Filter Company. No. 82,354; June 20; Gaz. vol. 167; p. 759.
Metal-working and automatic multiple-spindle screw machines. National-Acme Manufacturing Company. No. 84,121; Nov. 7; Gaz. vol. 172; p. 256.
Metals and metal castings and forgings, Certain. The International Metal Products Co. No. 83,915; Oct. 24; Gaz. vol. 171; p. 980.
Metals in the form of ingots, Compound. R. F. Lang. No. 83,747; Oct. 10; Gaz. vol. 171; p. 478.
Metals, Solutions for protecting. Anti-Tarnish Company. No. 83,882; Oct. 24; Gaz. vol. 171; p. 979.
Metallic compound which on friction emits sparks. The Roessler & Hasslacher Chemical Co. No. 81,104; Feb. 28; Gaz. vol. 163; p. 974.
Meters, Fluid-. Pittsburg Meter Company. Nos. 83,768–9; Oct. 10; Gaz. vol. 171; p. 478.
Milk, buttermilk, cream, butter, and cheese. Goucher Electric Purifying Co. No. 82,884; Aug. 1; Gaz. vol. 169; p. 200.
Milk, Condensed. Hudson Condensed Milk Co. No. 80,923; Feb. 14; Gaz. vol. 163; p. 478.
Milk, Condensed. Utah Condensed Milk Co. No. 84,441; Dec. 12; Gaz. vol. 173; p. 581.
Milk, Evaporated. Sheboygan Evaporated Milk Co. No. 84,136; Nov. 7; Gaz. vol. 172; p. 257.
Milk, Scientifically-soured. The Ferment Company. No. 82,064; May 30; Gaz. vol. 166; p. 1277.
Mills, Grinding-. The Duplex Mill & Mfg. Co. No. 83,719; Oct. 10; Gaz. vol. 171; p. 477.
Mince-meat. The W. H. Marvin Company. No. 81,537; Apr. 18; Gaz. vol. 165; p. 726.
Mince-meat. The W. H. Marvin Company. No. 81,892; May 16; Gaz. vol. 166; p. 748.
Mining-machines. Jeffrey Manufacturing Company. No. 84,006; Oct. 31; Gaz. vol. 171; p. 1254.
Mixing-machines. Werner & Pfleiderer. No. 81,565; Apr. 18; Gaz. vol. 165; p. 727.
Molasses. Boston Molasses Co. No. 81,498; Apr. 18; Gaz. vol. 165; p. 725.
Molasses to be used in the feed of horses and cattle. W. M. Wattles. No. 80,962; Feb. 14; Gaz. vol. 163; p. 479.
Mops, Cotton. J. P. Nawrath. No. 81,476; Apr. 11; Gaz. vol. 165; p. 470.
Mops, Cotton. J. P. Nawrath. Nos. 83,347–9; Sept. 5; Gaz. vol. 170; p. 240.
Moth-destroyer and disinfecting compound. Eck & Reimer. No. 84,471; Dec. 19; Gaz. vol. 173; p. 857.
Mothproofed fabrics. I. B. Rosencrantz. No. 84,681; Dec. 26; Gaz. vol. 173; p. 1076.
Mouth-wash. Grumme & Son. No. 82,147; June 6; Gaz. vol. 167; p. 237.
Mouth-wash, Antiseptic. T. Lamb. No. 83,845; Oct. 17; Gaz. vol. 171; p. 740.
Mouth-washes, tooth powders and cream. Kolberger Anstalten für Exterikultur Wilh. Anhalt Gesellschaft mit beschränkter Haftung. No. 82,336; June 20; Gaz. vol. 167; p. 758.
Mowers, Lawn-. Supplee Hardware Company. Nos. 83,526–8; Sept. 19; Gaz. vol. 170; p. 700.
Mucilage and paste. United News and Stationery Company. No. 83,194; Aug. 22; Gaz. vol. 169; p. 941.
Mucilage and paste. Thaddeus Davids Co. No. 83,990; Oct. 31; Gaz. vol. 171; p. 1253.
Music-rolls for self-playing and automatic musical instruments. The Autopiano Company. No. 81,945; May 23; Gaz. vol. 166; p. 981.
Music spools and note-sheets, Perforated-. United States Music Company. No. 81,559; Apr. 18; Gaz. vol. 165; p. 727.
Musical-instrument strings. National Musical String Co. No. 81,021; Feb. 21; Gaz. vol. 163; p. 724.
Musical-instrument strings. E. Stoll. No. 81,111; Feb. 28; Gaz. vol. 163; p. 975.
Musical-instrument strings. E. Stoll. No. 81,831; May 9; Gaz. vol. 166; p. 508.
Musical-instrument strings. Silvestre & Maucotel. No. 84,194; Nov. 14; Gaz. vol. 172; p. 546.
Musical-instrument strings. M. E. Schoening. No. 84,372; Dec. 5; Gaz. vol. 173; p. 283.
Musical instruments and supplies, Certain. The "Aeolian Company." No. 82,549; July 11; Gaz. vol. 168; p. 519.
Musical instruments and supplies therefor, Certain. Sanders & Stayman Company of Baltimore City. No. 83,949; Oct. 24; Gaz. vol. 171; p. 981.
Musical instruments and their parts, Certain. G. Pirazzi & Söhne. No. 84,370; Dec. 5; Gaz. vol. 173; p. 283.
Musical instruments, Certain. National Piano Company. No. 84,186; Nov. 14; Gaz. vol. 172; p. 546.
Musical publications, Periodical. Gibson Mandolin-Guitar Co. No. 83,902; Oct. 24; Gaz. vol. 171; p. 979.
Musical stringed instruments, Strings for. Silvestre & Maucotel. No. 83,605; Sept. 26; Gaz. vol. 170; p. 925.
Mustard. A. Gorski. No. 81,211; Mar. 14; Gaz. vol. 164; p. 503.
Mustard, apple-butter, and evaporated apricots. White, Wilson, Drew Company. No. 82,488; June 27; Gaz. vol. 167; p. 979.
Nail-enamel. The Torda Chemical Co. No. 82,846; July 25; Gaz. vol. 168; p. 1030.
Nails and barb-wire. Pittsburgh Steel Co. No. 83,092; Aug. 15; Gaz. vol. 169; p. 698.
Nails, Horse-. Capewell Horse Nail Company. No. 80,706; Jan. 24; Gaz. vol. 162; p. 995.
Nails, Wire. A. O. Meyer. No. 84,246; Nov. 21; Gaz. vol. 172; p. 818.
Nails, Zinc roofing-. W. H. Maze & Co. No. 84,245; Nov. 21; Gaz. vol. 172; p. 818.
Name-blocks or saddles for caskets, coffins, &c. National Casket Co. No. 81,818; May 9; Gaz. vol. 166; p. 508.
Nap-raising detergents for worn woolens, &c. McTan Chemical Co. No. 81,894; May 16; Gaz. vol. 166; p. 748.
Naphtha and gasolene. Standard Oil Co. of New York. No. 83,100; Aug. 15; Gaz. vol. 169; p. 698.
Napkins, Children's. Omo Manufacturing Company. No. 83,177; Aug. 22; Gaz. vol. 169; p. 940.
Napkins, Table-. Farwell Mills. No. 83,237; Aug. 29; Gaz. vol. 169; p. 1180.
Neck ties and scarfs, Men's. J. M. Cohen & Company. No. 82,679; July 18; Gaz. vol. 168; p. 783.
Necktie-holders. Sensible Tie Co. No. 82,723; July 18; Gaz. vol. 168; p. 784.
Neckties. William Hollins & Company. No. 81,274; Mar. 21; Gaz. vol. 164; p. 736.
Neckties. Carter & Holmes. No. 82,758; July 25; Gaz. vol. 168; p. 1027.
Neckties. M. W. Lowenstein. No. 83,422; Sept. 12; Gaz. vol. 170; p. 478.
Neckties and cravats. Stein & Sondheimer. Nos. 83,190–1; Aug. 22; Gaz. vol. 169; p. 941.
Neckties and cravats. M. W. Lowenstein. No. 83,421; Sept. 12; Gaz. vol. 170; p. 478.
Neckties and cravats. Stein & Sondheimer. No. 84,141; Nov. 7; Gaz. vol. 172; p. 257.
Neckties, scarfs, suspenders, and belts, Men's. Wilson Brothers. No. 82,851; July 25; Gaz. vol. 168; p. 1030.
Neckties, Silk. T. P. McCutcheon & Bro. No. 82,996; Aug. 8; Gaz. vol. 169; p. 446.
Needles and pins. G. Printz & Co. No. 81,296; Mar. 21; Gaz. vol. 164; p. 736.
Needles and pins. G. Printz & Co. No. 81,908; May 16; Gaz. vol. 166; p. 748.
Needlework, Linens and fabrics for art. Alexander & Perlmann. No. 81,842; May 16; Gaz. vol. 166; p. 747.

Alphabetical list of trade-marks—Continued.

Nets, Hair-. Marshall Field & Company. No. 82,316; June 20; Gaz. vol. 167; p. 758.
Neurotics and remedial preparations for nervous diseases. Dr. med. Karl Hartmann G. m. b. H. No. 83,906; Oct. 24; Gaz. vol. 171; p. 979.
Newspaper. L. Bojnowski. No. 82,201; June 13; Gaz. vol. 167; p. 509.
Newspapers. The Tribune Company. No. 81,645; Apr. 25; Gaz. vol. 165; p. 969.
Newspapers. New York Times Company. No. 83,176; Aug. 22; Gaz. vol. 169; p. 940.
Nippers, pliers, staple-pullers, and seal-presses. Utica Drop Forge & Tool Company. No. 83,793; Oct. 10; Gaz. vol. 171; p. 479.
Noodles and macaroni, Egg-. C. F. Mueller Co. No. 83,685; Oct. 3; Gaz. vol. 171; p. 210.
Nozzles. G. H. Hofmann. No. 84,231; Nov. 21; Gaz. vol. 172; p. 817.
Nutcrackers. Woldert Grocery Company. No. 83,379; Sept. 5; Gaz. vol. 170; p. 241.
Nuts. Limoneira Company. No. 80,723; Jan. 24; Gaz. vol. 162; p. 996.
Nutritive and remedial compound for nervous affections. Arlington Chemical Co. No. 82,746; July 25; Gaz. vol. 168; p. 1027.
Oats, Rolled. The Great Western Cereal Company. No. 80,525; Jan. 3; Gaz. vol. 162; p. 265.
Oats, Rolled. F. B. Chamberlain Co. No. 83,635; Oct. 3; Gaz. vol. 171; p. 209.
Oats, table sauce, catsup, &c., Rolled. The Haserot Canneries Company. No. 80,656; Jan. 17; Gaz. vol. 162; p. 779.
Oil and grease, Lubricating. Royersford Foundry & Machine Co. No. 82,830; July 25; Gaz. vol. 168; p. 1029.
Oil and oleaginous compound for cooking purposes, Cotton-seed. Magnolia Cotton Oil Company. No. 82,809; July 25; Gaz. vol. 168; p. 1029.
Oil and oleo-stearin, Compound of cotton-seed. Columbia Cotton Oil and Provision Corporation. No. 80,629; Jan. 10; Gaz. vol. 162; p. 534.
Oil and oleo-stearin, Compound of cotton-seed. The Henry Muhs Company. No. 80,865; Feb. 7; Gaz. vol. 163; p. 228.
Oil and salts, Anilin. Benzol Products Co'y. No. 84,073; Nov. 7; Gaz. vol. 172; p. 255.
Oil, Automobile lubricating-. Emery Manufacturing Company. No. 82,220; June 13; Gaz. vol. 167; p. 509.
Oil burners, Fuel-. National Fuel Oil Appliance Co. No. 81,162; Mar. 7; Gaz. vol. 164; p. 246.
Oil compound. Union Petroleum Company. No. 81,038; Feb. 21; Gaz. vol. 163; p. 725.
Oil, Cooking-. Trinity Cotton Oil Co. No. 83,027; Aug. 8; Gaz. vol. 169; p. 447.
Oil, Cotton-seed. Kentucky Refining Co. No. 80,785; Jan. 31; Gaz. vol. 162; p. 1180.
Oil, Cotton-seed. Kentucky Refining Co. No. 80,854; Feb. 7; Gaz. vol. 163; p. 228.
Oil, Cotton-seed. Kentucky Refining Company. Nos. 81,396–7; Apr. 4; Gaz. vol. 165; p. 237.
Oil, Cotton-seed. Kentucky Refining Co. No. 81,883; May 16; Gaz. vol. 166; p. 748.
Oil, Cotton-seed. Kentucky Refining Co. No. 82,001; May 23; Gaz. vol. 166; p. 982.
Oil, Cotton-seed. Kentucky Refining Co. Nos. 83,497–8; Sept. 19; Gaz. vol. 170; p. 700.
Oil, Cotton-seed. Kentucky Refining Co. No. 83,654; Oct. 3; Gaz. vol. 171; p. 209.
Oil, Cotton-seed. Kentucky Refining Co. No. 83,843; Oct. 17; Gaz. vol. 171; p. 740.
Oil, Cotton-seed salad-. The Pompeian Co. No. 84,040; Oct. 31; Gaz. vol. 171; p. 1255.
Oil-cups. The Lunkenheimer Company. Nos. 83,663–4; Oct. 3; Gaz. vol. 171; p. 210.
Oil-cups. The Lunkenheimer Company. Nos. 83,675–7; Oct. 3; Gaz. vol. 171; p. 210.
Oil, Edible corn-. Corn Products Refining Company. No. 83,639; Oct. 3; Gaz. vol. 171; p. 209.
Oil, Haarlem. Oprechte Haarlemmer Olie Fabriek (voorheen onder de firma G. de Koning Tilly). No. 81,819; May 9; Gaz. vol. 166; p. 508.
Oil, Hard lubricating-. Hudson & Thurber Co. No. 81,007; Feb. 21; Gaz. vol. 163; p. 724.
Oil hardener or drier. Standard Varnish Works. No. 83,369; Sept. 5; Gaz. vol. 170; p. 241.
Oil, Healing-. Astyptodyne Chemical Co. No. 84,304; Nov. 28; Gaz. vol. 172; p. 1085.
Oil, Linseed-. Kelloggs & Miller. No. 81,882; May 16; Gaz. vol. 166; p. 748.
Oil lubricant. Albany Lubricating Co. No. 81,191; Mar. 14; Gaz. vol. 164; p. 503.
Oil, Lubricating-. Duryea Manufacturing Company. No. 83,235; Aug. 29; Gaz. vol. 169; p. 1180.
Oil, Lubricating-. J. A. Fleming. No. 83,238; Aug. 29; Gaz. vol. 169; p. 1180.
Oils, Lubricating-. Bayerson Oil Works. No. 83,316; Sept. 5; Gaz. vol. 170; p. 239.
Oil, Lubricating and illuminating. International Lubricant Co. No. 83,914; Oct. 24; Gaz. vol. 171; p. 980.
Oil, Lubricating and illuminating. International Lubricant Co. No. 84,236; Nov. 21; Gaz. vol. 172; p. 818.
Oil, Olive-. S. J. Valk & Bro. No. 80,821; Jan. 31; Gaz. vol. 162; p. 1181.
Oil, Olive-. Fort Wayne Drug Company. No. 80,909; Feb. 14; Gaz. vol. 163; p. 477.
Oil, Olive-. Hymes Brothers Company. No. 81,149; Mar. 7; Gaz. vol. 164; p. 246.
Oil, Olive-. S. J. Valk & Bro. No. 82,031; May 23; Gaz. vol. 166; p. 983.
Oil, Olive-. Goldberg, Bowen & Co. No. 82,073; May 30; Gaz. vol. 166; p. 1278.
Oil, Olive-. Lekas and Drivas. No. 82,097; May 30; Gaz. vol. 166; p. 1278.
Oil, Olive-. F. W. Warrick. No. 82,187; June 6; Gaz. vol. 167; p. 238.
Oil, Olive-. Menesini & fili Davini. No. 83,172; Aug. 22; Gaz. vol. 169; p. 940.
Oil, Olive-. W. S. Hopkins. No. 83,838; Oct. 17; Gaz. vol. 171; p. 740.
Oil, Olive-. The Pompeian Co. No. 84,041; Oct. 31; Gaz. vol. 171; p. 1255.
Oil, Olive-. A. Luneschloss. No. 84,114; Nov. 7; Gaz. vol. 172; p. 256.
Oil, Olive-. The J. & G. Butler Co. No. 84,377; Dec. 12; Gaz. vol. 173; p. 579.
Oil, Olive-. F. Gengaro & Company. No. 84,385; Dec. 12; Gaz. vol. 173; p. 579.
Oil, Paint-. L. R. Sassinot. No. 80,552; Jan. 3; Gaz. vol. 162; p. 266.
Oil, Polishing-. Barnett Bros. No. 84,452; Dec. 19; Gaz. vol. 173; p. 857.
Oil-pump, Mechanical. The Lunkenheimer Company. No. 83,667; Oct. 3; Gaz. vol. 171; p. 210.
Oil-pumps. The Lunkenheimer Company. No. 83,673; Oct. 3; Gaz. vol. 171; p. 210.
Oil, Rosin-. American Naval Stores Company. No. 84,069; Nov. 7; Gaz. vol. 172; p. 255.
Oil, sardines, and macaroni, Olive-. Ridenour-Baker Grocery Company. No. 81,629; Apr. 25; Gaz. vol. 165; p. 969.
Oil substitute, Linseed-. Swan & Finch Company. No. 84,551; Dec. 19; Gaz. vol. 173; p. 860.
Oil, Waterproofing and preservative. J. H. Hoelscher. No. 82,081; May 30; Gaz. vol. 166; p. 1278.
Oil, Wood-polishing. W. H. Zinsser. No. 83,799; Oct. 10; Gaz. vol. 171; p. 479.
Oils and greases, Lubricating. George P. Dixon Company. No. 80,991; Feb. 21; Gaz. vol. 163; p. 723.
Oils and greases, Lubricating. Alonzo K. Lynch Advance Oil Works. No. 81,468; Apr. 11; Gaz. vol. 165; p. 470.
Oils and greases, Lubricating. The R. J. Kanter Company. Nos. 82,240–1; June 13; Gaz. vol. 167; p. 510.
Oils and greases, Lubricating. New York & New Jersey Lubricant Company. No. 82,712; July 18; Gaz. vol. 168; p. 784.
Oils and greases, Lubricating. W. B. McVicker Company. No. 82,947; Aug. 8; Gaz. vol. 169; p. 445.
Oils and greases, Lubricating. W. B. McVicker Company. No. 83,080; Aug. 15; Gaz. vol. 169; p. 698.
Oils and greases, Lubricating. Wolverine Lubricants Company. No. 83,117; Aug. 15; Gaz. vol. 169; p. 699.
Oils and greases, Lubricating. W. P. Collins & Co. No. 83,143; Aug. 22; Gaz. vol. 169; p. 939.
Oils and greases, Lubricating. Tide Water Oil Co. No. 83,791; Oct. 10; Gaz. vol. 171; p. 479.
Oils and greases, Lubricating. Union Petroleum Company. No. 84,296; Nov. 21; Gaz. vol. 172; p. 819.
Oils and greases, Lubricating. Universal Lubricating Co. No. 84,703; Dec. 26; Gaz. vol. 173; p. 1077.
Oils and greases, Lubricating and illuminating. H. A. Porterfield. No. 81,415; Apr. 4; Gaz. vol. 165; p. 238.
Oils and petroleum products, Lubricating-. The Texas Company. No. 84,438; Dec. 12; Gaz. vol. 173; p. 580.
Oils for preventing corrosion of iron and steel. Baughman & Williams. No. 80,753; Jan. 31; Gaz. vol. 162; p. 1179.
Oils, greases, and compounds, Lubricating. G. B. Stock Xylite Grease & Oil Co. No. 84,143; Nov. 7; Gaz. vol. 172; p. 257.
Oils, Illuminating-. L. Raggio & Hermanos. No. 84,042; Oct. 31; Gaz. vol. 171; p. 1255.
Oils, Lubricating-. Standard Oil Co. of New York. Nos. 81,109–10; Feb. 28; Gaz. vol. 163; p. 975.
Oils, Lubricating-. A. D. Miller's Sons Co. No. 81,157; Mar. 7; Gaz. vol. 164; p. 246.
Oils, Lubricating-. Standard Oil Co. of New York. No. 81,556; Apr. 18; Gaz. vol. 165; p. 726.
Oils, Lubricating. Standard Oil Co. No. 82,839; July 25; Gaz. vol. 168; p. 1029.
Oils, Lubricating-. W. S. Sheppard. No. 83,013; Aug. 8; Gaz. vol. 169; p. 447.
Oils, Lubricating-. Standard Oil Co. of New York. Nos. 83,779–90; Oct. 10; Gaz. vol. 171; p. 479.
Oils, Lubricating-. The Texas Company. Nos. 84,056–9; Oct. 31; Gaz. vol. 171; p. 1255.
Oils, Lubricating-. The Texas Company. No. 84,061; Oct. 31; Gaz. vol. 171; p. 1255.
Oils, Lubricating-. Standard Oil Co. of New York. Nos. 84,263–70; Nov. 21; Gaz. vol. 172; pp. 818–19.
Oils, Lubricating-. The Texas Company. Nos. 84,273–95; Nov. 21; Gaz. vol. 172; p. 819.

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Oils, Lubricating-. The Texas Company. Nos. 84,347–9; Nov. 28; Gaz. vol. 172; p. 1086.
Oils, Lubricating-. The Texas Company. Nos. 84,417–37; Dec. 12; Gaz. vol. 173; p. 580.
Oils, Lubricating-. The Texas Company. No. 84,439; Dec. 12; Gaz. vol. 173; p. 580.
Oils, Lubricating-. Tiona Oil Company. No. 84,440; Dec. 12; Gaz. vol. 173; p. 581.
Oils, Lubricating, cleaning, and polishing. Buffalo Specialty Company. No. 84,589; Dec. 26; Gaz. vol. 173; p. 1073.
Oils, perfumes, floral waters, &c., Essential. F. W. Warrick. No. 81,930; May 16; Gaz. vol. 166; p. 749.
Oils, Polishing, renovating, cleaning, and lubricating. Pantol Manufacturing Company. No. 84,127; Nov. 7; Gaz. vol. 172; p. 256.
Ointment. C. S. Brant. No. 80,511; Jan. 3; Gaz. vol. 162; p. 265.
Ointment. L. C. Finlay. No. 80,907; Feb. 14; Gaz. vol. 163; p. 477.
Ointment. M. Chester. No. 81,434; Apr. 11; Gaz. vol. 165; p. 469.
Ointment. C. Dunn. No. 81,862; May 16; Gaz. vol. 166; p. 747.
Ointment. M. A. Flynn. No. 82,066; May 30; Gaz. vol. 166; p. 1277.
Ointment. C. F. D. Gardenier. No. 82,594; July 11; Gaz. vol. 168; p. 520.
Ointment. H. C. Wayland. No. 82,663; July 11; Gaz. vol. 168; p. 522.
Ointment. T. C. Bohn. No. 83,472; Sept. 19; Gaz. vol. 170; p. 699.
Ointment and remedies for the skin. A. Goodenough. No. 83,730; Oct. 10; Gaz. vol. 171; p. 477.
Ointment and remedies for the skin. A. Goodenough. No. 84,624; Dec. 26; Gaz. vol. 173; p. 1074.
Ointment, liniment, cough-syrup, &c. W. R. Kent. No. 81,395; Apr. 4; Gaz. vol. 165; p. 237.
Oleaginous compound for cooking purposes. Columbia Cotton Oil and Provision Corporation. No. 82,138; June 6; Gaz. vol. 167; p. 237.
Oleaginous compound for shortening. Columbia Cotton Oil and Provision Corporation. No. 82,762; July 25; Gaz. vol. 168; p. 1027.
Oleomargarin. John F. Jelke Company. Nos. 81,150–2; Mar. 7; Gaz. vol. 164; p. 246.
Oleomargarin. Capital City Dairy Co. No. 83,137; Aug. 22; Gaz vol. 169; p. 939.
Oleomargarin. The Capital City Dairy Co. No. 84,210; Nov. 21; Gaz. vol. 172; p. 817.
Olives. Arguimbau & Ramée. No. 80,969; Feb. 21; Gaz. vol. 163; p. 723.
Olives. Joseph A. Goddard Company. No. 82,321; June 20; Gaz. vol. 167; p. 758.
Olives and rolled oats. The Haserot Canneries Company. No. 83,036; Aug. 8; Gaz. vol. 169; p. 447.
Olives, tea, vinegar, and canned goods. Twohy-Eimon Mercantile Company. No. 81,368; Mar. 28; Gaz. vol. 164; p. 972.
Optical instruments and certain specified scientific appliances. Schulze & Billerbeck. No. 84,258; Nov. 21; Gaz. vol. 172; p. 818.
Optical-lens blanks. Meyrowitz Manufacturing Co. No. 83,269; Aug. 29; Gaz. vol. 169; p. 1181.
Orange and sugar compound. The Boyd Fruit Sugar Co. No. 82,298; June 20; Gaz. vol. 167; p. 757.
Oranges. Haines City Citrus Growers' Association. No. 81,991; May 23; Gaz. vol. 166; p. 982.
Oranges and grape-fruit. Upland Citrus Ass'n. No. 81,647; Apr. 25; Gaz. vol. 165; p. 969.
Oranges and grape-fruit. Upland Citrus Ass'n. No. 83,297; Aug. 29; Gaz. vol. 169; p. 1181.
Oranges and grape-fruit. Tangerine Citrus Growers' Association. No. 84,145; Nov. 7; Gaz. vol. 172; p. 257.
Oranges and lemons. Mountain View Orange and Lemon Growers Association. No. 84,023; Oct. 31; Gaz. vol. 171; p. 1254.
Oranges and lemons. Stewart Citrus Association. No. 84,547; Dec. 19; Gaz. vol. 173; p. 860.
Oranges, grape-fruit, and tangerines. Munroe & Stevens. No. 82,251; June 13; Gaz. vol. 167; p. 511.
Oranges, lemons, grape-fruit, &c. W. J. Ellsworth. No. 80,836; Feb. 7; Gaz. vol. 163; p. 227.
Oranges, lemons, grape-fruit, &c. W. S. Hart. No. 81,145; Mar. 7; Gaz. vol. 164; p. 245.
Oranges, lemons, grape-fruit, limes, and tangerines. Bradentown Citrus Growers Association. No. 83,982; Oct. 31; Gaz. vol. 171; p. 1253.
Oranges, lemons, grape-fruit, limes, apples, &c. Conner & Shallenberger. No. 82,965; Aug. 8; Gaz. vol. 169; p. 445.
Oranges, lemons, grape-fruit, tangerines, &c. Bartow Citrus Growers' Association. No. 83,809; Oct. 17; Gaz. vol. 171; p. 739.
Oranges, lemons, grape-fruit, tangerines, and limes. Esperanza Fruit Co. No. 81,445; Apr. 11; Gaz. vol. 165; p. 469.
Oranges, lemons, grape-fruit, tangerines, and limes. Nocatee Fruit Company. No. 81,477; Apr. 11; Gaz. vol. 165; p. 470.
Oranges, lemons, grape-fruit, tangerines, and limes. Esperanza Fruit Co. No. 81,512; Apr. 18; Gaz. vol. 165; p. 725.
Oranges, lemons, grape-fruit, tangerines, and limes. Winter Garden Citrus Growers Association. No. 81,563; Apr. 18; Gaz. vol. 165; p. 727.
Oranges, lemons, grape-fruit, tangerines, and limes. W. J. Ellsworth. Nos. 81,599–600; Apr. 25; Gaz. vol. 165; p. 968.
Oranges, lemons, grape-fruit, tangerines, and limes. Tangerine Citrus Growers' Association. No. 81,644; Apr. 25; Gaz. vol. 165; p. 969.
Oranges, lemons, grape-fruit, tangerines, and limes. Winter Haven Citrus Growers' Association. Nos. 81,652–3; Apr. 25; Gaz. vol. 165; p. 969.
Oranges, lemons, grape-fruit, tangerines, and limes. Wauchula Citrus Growers Association. Nos. 81,931–3; May 16; Gaz. vol. 166; p. 749.
Oranges, lemons, grape-fruit, tangerines, and limes. Winter Haven Citrus Growers' Association. No. 81,940; May 16; Gaz. vol. 166; p. 749.
Oranges, lemons, grape-fruit, tangerines, and limes. Florence Citrus Growers Association. Nos. 81,983–5; May 23; Gaz. vol. 166; p. 982.
Oranges, lemons, grape-fruit, tangerines, and limes. Upland Heights Orange Association. No. 82,030; May 23; Gaz. vol. 166; p. 983.
Oranges, lemons, grape-fruit, tangerines, and limes. South Lake Apopka Citrus Growers Association. No. 82,373; June 20; Gaz. vol. 167; p. 759.
Oranges, lemons, grape-fruit, tangerines, and limes. G. E. Koplin. No. 82,523; July 4; Gaz. vol. 168; p. 246.
Oranges, lemons, grape-fruit, tangerines, and limes. Tangerine Citrus Growers' Association. No. 82,729; July 18; Gaz. vol. 168; p. 784.
Oranges, lemons, grape-fruit, tangerines, and limes. Florence Citrus Growers Association. No. 82,781; July 25; Gaz. vol. 168; p. 1028.
Oranges, lemons, grape-fruit, tangerines, and limes. Tampa Citrus Growers' Association. No. 82,843; July 25; Gaz. vol. 168; p. 1030.
Oranges, lemons, grape-fruit, tangerines, and limes. Chase & Company. No. 83,223; Aug. 29; Gaz. vol. 169; p. 1179.
Oranges, lemons, tangerines, grape-fruit, &c. Homeland Citrus Growers Association. No. 82,329; June 20; Gaz. vol. 167; p. 758.
Oranges, lemons, tangerines, grape-fruit, and limes. Eustis Packing Company. No. 80,648; Jan. 17; Gaz. vol. 162; p. 779.
Oranges, lemons, tangerines, grape-fruit, and limes. Willcardo Fruit Company. No. 80,692; Jan. 17; Gaz. vol. 162; p. 780.
Oranges, lemons, tangerines, grape-fruit, and limes. Emeralda Packing Co. Nos. 81,443–4; Apr. 11; Gaz. vol. 165; p. 469.
Oranges, lemons, tangerines, grape-fruit, and limes. Alva Citrus Growers' Association. No. 82,286; June 20; Gaz. vol. 167; p. 757.
Oranges, lemons, tangerines, grape-fruit, and limes. Azusa Foot-Hill Citrus Association. No. 82,670; July 18; Gaz. vol. 168; p. 783.
Oranges, lemons, tangerines, grape-fruit, and limes. Willcardo Fruit Company. No. 82,738; July 18; Gaz. vol. 168; p. 785.
Oranges, lemons, tangerines, grape-fruit, and limes. Eustis Packing Company. No. 83,060; Aug. 15; Gaz. vol. 169; p. 697.
Oranges, lemons, tangerines, grape-fruit, and limes. W. C. Temple. No. 84,055; Oct. 31; Gaz. vol. 171; p. 1255.
Organs and pianos. Mustel et Cie. No. 83,933; Oct. 24; Gaz. vol. 171; p. 980.
Ovens, Bake-. Werner & Pfleiderer. No. 81,236; Mar. 14; Gaz. vol. 164; p. 504.
Ovens, stoves, ranges, and burners, Gas and gasolene. A. B. Stove Company. No. 83,800; Oct. 17; Gaz. vol. 171; p. 739.
Overalls. Standard Overall Co. No. 83,101; Aug. 15; Gaz. vol. 169; p. 698.
Overalls. Alexander Bros. Co. No. 83,537; Sept. 26; Gaz. vol. 170; p. 923.
Overalls and men's work-shirts. Kerfoot-Miller and Company. No. 82,896; Aug. 1; Gaz. vol. 169; p. 200.
Overalls, trousers, and shirts. Lewis Meier & Co. No. 80,606; Jan. 10; Gaz. vol. 162; p. 534.
Overalls, trousers, coats, work-shirts, &c. Schramm & Schmieg Dry Goods Company. No. 83,602; Sept. 26; Gaz. vol. 170; p. 925.
Overalls, trousers, gloves, and mitts. Ward-Truitt Company. No. 81,235; Mar. 14; Gaz. vol. 164; p. 504.
Overcoats, ulsters, rain and automobile coats. Heidelberg, Wolff & Co. No. 83,154; Aug. 22; Gaz. vol. 169; p. 940.
Overalls, undercoats, and work-shirts. The Southern Overall Co. No. 81,485; Apr. 11; Gaz. vol. 165; p. 470.
Overcoats, Men's. M. Kohn. No. 82,004; May 23; Gaz. vol. 166; p. 982.
Overshirts, Men's cotton. Oppenheim, Oberndorf & Co No. 80,732; Jan. 24; Gaz. vol. 162; p. 996.

Alphabetical list of trade-marks—Continued.

Oxygen gas, Chemical for producing. Williams, Brown and Earle. No. 81,937; May 16; Gaz. vol. 166; p. 749.
Oxygenators. Oxygenator Co. No. 80,612; Jan. 10; Gaz. vol. 162; p. 534.
Oxygenators. Oxygenator Co. No. 82,467; June 27; Gaz. vol. 167; p. 979.
Oysters, Fresh. H. C. Rowe & Co. No. 84,682; Dec. 26; Gaz. vol. 173; p. 1076.
Packing. Peerless Rubber Manufacturing Company. Nos. 82,357–8; June 20; Gaz. vol. 167; p. 759.
Packing. Peerless Rubber Manufacturing Company. No. 82,908; Aug. 1; Gaz. vol. 169; p. 200.
Packing and jointing. Wallach Bros. No. 83,456; Sept. 12; Gaz. vol. 170; p. 479.
Packing-cases. Thames Paper Co. No. 82,730; July 18; Gaz. vol. 168; p. 784.
Packing-cases, Woven-slat. Trusweve Package Manufacturing Company. No. 80,818; Jan. 31; Gaz. vol. 162; p. 1181.
Packing-cases, Woven slatted. Sealshipt Oyster System. No. 83,185; Aug. 22; Gaz. vol. 169; p. 941.
Packing for pipes and steam-boilers. Kerbaux Company. No. 81,153; Mar. 7; Gaz. vol. 164; p. 246.
Packing formed of a composition of rubber and asbestos. Wallach Bros. No. 83,455; Sept. 12; Gaz. vol. 170; p. 479.
Packing, Lubricated textiles for rod and valve. C. A. Daniel. No. 81,682; May 2; Gaz. vol. 166; p. 245.
Packing, Machinery. A. O. Meyer. No. 84,654; Dec. 26; Gaz. vol. 173; p. 1075.
Packing, Metallic. Greenwood Mfg. and Supply Company. No. 82,509; July 4; Gaz. vol. 168; p. 245.
Padlocks. The W. Bingham Company. No. 81,667; May 2; Gaz. vol. 166; p. 245.
Pails, Oyster-. Sealshipt Oyster System. No. 80,557; Jan. 3; Gaz. vol. 162; p. 266.
Paint. G. A. Pritchard. No. 81,909; May 16; Gaz. vol. 166; p. 748.
Paint. Standard Asphalt & Rubber Company. No. 83,286; Aug. 29; Gaz. vol. 169; p. 1181.
Paint and enamels. Holzapfels Limited. No. 83,069; Aug. 15; Gaz. vol. 169; p. 697.
Paint and paint compounds. The Paraffine Paint Company. No. 80,941; Feb. 14; Gaz. vol. 163; p. 478.
Paint and varnish solvents and removers. Wilson Remover Co. No. 83,116; Aug. 15; Gaz. vol. 169; p. 699.
Paint, Cold-water. C. A. Woolsey Paint & Color Company. No. 82,545; July 4; Gaz. vol. 168; p. 246.
Paint for preserving wood and metal. Rabok Manufacturing Company. No. 83,356; Sept. 5; Gaz. vol. 170; p. 240.
Paint, Interior. C. A. Woolsey Paint & Color Company. No. 82,546; July 4; Gaz. vol. 168; p. 246.
Paint materials, Certain. J. Lucas & Co. No. 83,660; Oct. 3; Gaz. vol. 171; p. 210.
Paint, Mixed. The Marietta Paint & Color Co. No. 81,729; May 2; Gaz. vol. 166; p. 247.
Paint, Mixed. The Tropical Oil Company. No. 83,029; Aug. 8; Gaz. vol. 169; p. 447.
Paint mixture. Flood & Conklin Co. No. 82,975; Aug. 8; Gaz. vol. 169; p. 446.
Paint, Ready-mixed. Patton Paint Company. No. 81,228; Mar. 14; Gaz. vol. 164; p. 504.
Paint, Ready-mixed. A. Charvin. No. 81,506; Apr. 18; Gaz. vol. 165; p. 725.
Paint, Ready-mixed. Geo. D. Wetherill & Co. No. 83,376; Sept. 5; Gaz. vol. 170; p. 241.
Paint, Roof-. H. J. Werwage. No. 81,491; Apr. 11; Gaz. vol. 165; p. 471.
Paint, Varnish-. The Ault & Wiborg Co. No. 81,773; May 9; Gaz. vol. 166; p. 507.
Paint, varnish, and varnish-stain. F. W. Devoe & C. T. Raynolds Co. No. 82,216; June 13; Gaz. vol. 167; p. 509.
Paint, Water-. F. M. Tiemann. No. 81,927; May 16; Gaz. vol. 166; p. 749.
Paint, Waterproof. J. E. Davis. No. 83,145; Aug. 22; Gaz. vol. 169; p. 939.
Paint, Waterproofing-. Blanchite Paint Company. No. 82,676; July 18; Gaz. vol. 168; p. 783.
Paints. Rinald Bros. No. 80,546; Jan. 3; Gaz. vol. 162; p. 266.
Paints and antifouling preservative compositions, Copper. Bredell Compositions Company of the Pacific Coast. No. 81,953; May 23; Gaz. vol. 166; p. 981.
Paints and painters' supplies, Certain. Wadsworth, Howland & Co. No. 81,490; Apr. 11; Gaz. vol. 165; p. 471.
Paints and wood-varnishes, Ready-mixed. Louisville Paint Mfg. Co. No. 83,924; Oct. 24; Gaz. vol. 171; p. 980.
Paints, Anticorrosive and antifouling. Bredell Compositions Company. No. 82,299; June 20; Gaz. vol. 167; p. 757.
Paints, Asphalt. American Asphaltum & Rubber Co. No. 83,123; Aug. 22; Gaz. vol. 169; p. 939.
Paints, Certain. A. O. Meyer. No. 84,247; Nov. 21; Gaz. vol. 172; p. 818.
Paints, Cleansing preparation for. Zog, Ltd. No. 83,465; Sept. 12; Gaz. vol. 170; p. 479.
Paints, colors, varnishes, and stains. Allen & Van Dyke. No. 82,551; July 11; Gaz. vol. 168; p. 519.
Paints, fillers, japans, and varnishes. The Pennsylvania Specialty Co. No. 81,545; Apr. 18; Gaz. vol. 165; p. 726.
Paints, Fire-resisting and waterproof. The Clapp Fire Resisting Paint Company. No. 83,477; Sept. 19; Gaz. vol. 170; p. 699.
Paints for ironwork and roofing. The Canfield Oil Co. No. 82,204; June 13; Gaz. vol. 167; p. 509.
Paints, Graphite. Allen Crucible Co. No. 81,942; May 23; Gaz. vol. 166; p. 981.
Paints, &c., Hydrocarbon compound used in. National Hydro-Carbon Company. No. 82,998; Aug. 8; Gaz. vol. 169; p. 446.
Paints, Iron-oxid. Clinton Metallic Paint Company. No. 82,304; June 20; Gaz. vol. 167; p. 757.
Paints, Mixed. The Irvin, Jewell & Vinson Company. No. 80,925; Feb. 14; Gaz. vol. 163; p. 478.
Paints, Mixed. The Standard Improved Elastic Paint Company. No. 82,270; June 13; Gaz. vol. 167; p. 511.
Paints, pigments, &c., Waterproofing. The National Roofing Company. No. 82,709; July 18; Gaz. vol. 168; p. 784.
Paints, Priming-. E. E. Nice. No. 81,737; May 2; Gaz. vol. 166; p. 247.
Paints, Ready-mixed. L. Sonneborn Sons. No. 83,697; Oct. 3; Gaz. vol. 171; p. 211.
Painters' materials, Certain. Denny, Hilborn & Rosenbach. No. 80,581; Jan. 10; Gaz. vol. 162; p. 533.
Painters' materials, Certain. Hildreth Varnish Co. No. 80,595; Jan. 10; Gaz. vol. 162; p. 533.
Pajamas and shirts. E. Rosenfeld & Co. No. 82,176; June 6; Gaz. vol. 167; p. 238.
Pajamas, drawers, and union suits. Maryland Oiled Clothing Company. No. 81,813; May 9; Gaz. vol. 166; p. 508.
Pajamas, night shirts and robes, union suits, and underwear. The Argyle Company. No. 84,159; Nov. 14; Gaz. vol. 172; p. 545.
Pamphlets and circulars, Printed. Brotherhood of Disciples of Christ. No. 81,850; May 16; Gaz. vol. 166; p. 747.
Pans, Dish-. E. O. C. Ord. No. 84,517; Dec. 19; Gaz. vol. 173; p. 859.
Pans, skillets, spiders, and griddles, Frying-. New York Stamping Company. No. 83,765; Oct. 10; Gaz. vol. 171; p. 478.
Pantaloons, shirts, overalls, &c. M. Loeb. No. 84,500; Dec. 19; Gaz. vol. 173; p. 858.
Paper. District of Columbia Paper Manufacturing Company. No. 80,767; Jan. 31; Gaz. vol. 162; p. 1179.
Paper. Andrews & Lewerth. No. 82,858; Aug. 1; Gaz. vol. 169; p. 199.
Paper and envelops. The Barney Paper Company. No. 83,807; Oct. 17; Gaz. vol. 171; p. 739.
Paper and envelops, Printing and writing. Union Card & Paper Co. No. 81,182; Mar. 7; Gaz. vol. 164; p. 247.
Paper and envelops, Writing-. National Papeterie Company. No. 81,475; Apr. 11; Gaz. vol. 165; p. 470.
Paper and envelops, Writing-. Z. & W. M. Crane. Nos. 81,957–62; May 23; Gaz. vol. 166; p. 981.
Paper and envelops, Writing-. Indiana Paper Company. No. 82,517; July 4; Gaz. vol. 168; p. 245.
Paper and envelops, Writing-. G. B. Hurd & Co. No. 82,988; Aug. 8; Gaz. vol. 169; p. 446.
Paper and envelops, Writing-. Z. & W. M. Crane. No. 83,050; Aug. 15; Gaz. vol. 169; p. 697.
Paper and ink-ribbon for type-writing and adding machines, Carbon-. Three B B B Company. No. 83,026; Aug. 8; Gaz. vol. 169; p. 447.
Paper and paper-boards, Wrapping-. The C. M. Robertson Company. No. 81,745; May 2; Gaz. vol. 166; p. 247.
Paper and roofing-felt, Roofing-. The Chatfield Manufacturing Company. No. 82,572; July 11; Gaz. vol. 168; p. 519.
Paper and type-writer ribbons, Carbon-. Columbia Ribbon & Carbon Manufacturing Company. No. 83,818; Oct. 17; Gaz. vol. 171; p. 739.
Paper and type-writer ribbons, Carbon-. Standard Typewriter Co. No. 84,195; Nov. 14; Gaz. vol. 172; p. 546.
Paper bags. Crown-Columbia Pulp & Paper Co. No. 80,831; Feb. 7; Gaz. vol. 163; p. 227.
Paper bags. The Union Bag and Paper Company. No. 81,114; Feb. 28; Gaz. vol. 163; p. 975.
Paper bags. The Cleveland-Akron Bag Co. No. 81,201; Mar. 14; Gaz. vol. 164; p. 503.
Paper bags. Carpenter Paper Company. Nos. 81,249–50; Mar. 21; Gaz. vol. 164; p. 735.
Paper Bags. The Grand Lake Company. Nos. 81,518–22; Apr. 18; Gaz. vol. 165; p. 725.
Paper bags. Union Bag and Paper Company. No. 82,380; June 20; Gaz. vol. 167; p. 760.
Paper bags. Crown-Columbia Pulp & Paper Company. No. 82,577; July 11; Gaz. vol. 168; p. 519.
Paper bags. Union Bag and Paper Company. No. 82,657; July 11; Gaz. vol. 168; p. 522.
Paper bags. Crown-Columbia Pulp and Paper Company. Nos. 83,225–32; Aug. 29; Gaz. vol. 169; pp. 1179–80.
Paper bags. Crown-Columbia Pulp and Paper Company. No. 84,602; Dec. 26; Gaz. vol. 173; p. 1074.

Paper bags and drinking-cups. The American Paper Goods Company. No. 81,662; May 2; Gaz. vol. 166; p. 245.
Paper-board, Corrugated. The Thompson & Norris Company. No. 83,612; Sept. 26; Gaz. vol. 170; p. 925.
Paper, Bond-. E. Kimber. No. 82,897; Aug. 1; Gaz. vol. 169; p. 200.
Paper, Bond and writing. Cady Paper Company. Nos. 80,986–7; Feb. 21; Gaz. vol. 163; p. 723.
Paper bottles. Pyraform Bottle Manufacturing Company. No. 82,360; June 20; Gaz. vol. 167; p. 759.
Paper boxes, Metal-stayed. National Metal Edge Box Company. No. 81,163; Mar. 7; Gaz. vol. 164; p. 246.
Paper boxes, Metal stays for. National Metal Edge Box Company. No. 80,935; Feb. 14; Gaz. vol. 163; p. 478.
Paper, Carbon-. Keystone Carbon Paper Mfg. Company. No. 84,368; Dec. 5; Gaz. vol. 173; p. 283.
Paper carpets and rugs. E. P. Burrowes. No. 84,209; Nov. 21; Gaz. vol. 172; p. 817.
Paper, Certain kinds of. J. C. Blair Company. Nos. 83,545–51; Sept. 26; Gaz. vol. 170; p. 923.
Paper, Certain parchment-like. United Leatherite Company. No. 83,616; Sept. 26; Gaz. vol. 170; p. 925.
Paper cleaner, Wall-. The Absorene Mfg. Co. No. 83,707; Oct. 10; Gaz. vol. 171; p. 477.
Paper dolls. Joseph P. Schiller Syndicate. No. 82,365; June 20; Gaz. vol. 167; p. 759.
Paper, Duck used for drying. Savage Manufacturing Company. No. 84,048; Oct. 31; Gaz. vol. 171; p. 1255.
Paper, envelops, paper-board, pens, and copying-presses. Parsons Trading Company. No. 82,532; July 4; Gaz. vol. 168; p. 246.
Paper, envelops, photograph-inclosures, &c. The American Paper Goods Company. No. 80,968; Feb. 21; Gaz. vol. 163; p. 723.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 80,510; Jan. 3; Gaz. vol. 162; p. 265.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 82,131; June 6; Gaz. vol. 167; p. 237.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 82,294; June 20; Gaz. vol. 167; p. 757.
Paper, envelops, tablets, and blank books. J. C. Blair Company. Nos. 82,404–6; June 27; Gaz. vol. 167; p. 977.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 82,494; July 4; Gaz. vol. 168; p. 245.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 82,675; July 18; Gaz. vol. 168; p. 783.
Paper, envelops, tablets, and blank books. J. C. Blair Company. Nos. 82,864–6; Aug. 1; Gaz. vol. 169; p. 199.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 82,956; Aug. 8; Gaz. vol. 169; p. 445.
Paper, envelops, tablets, and blank books. J. C. Blair Company. Nos. 83,042–3; Aug. 15; Gaz. vol. 169; p. 697.
Paper, envelops, tablets, and blank books. Domestic Mills Paper Co. No. 83,056; Aug. 15; Gaz. vol. 169; p. 697.
Paper, envelops, tablets, and blank books. J. C. Blair Company. No. 83,213; Aug. 29; Gaz. vol. 169; p. 1179.
Paper for cigarettes, Rice-. Metropolitan Tobacco Company. No. 84,117; Nov. 7; Gaz. vol. 172; p. 256.
Paper, India. James R. Crompton & Brothers. No. 84,169; Nov. 14; Gaz. vol. 172; p. 545.
Paper, Ledger, bond, and drawing. Keuffel & Esser Company. No. 80,855; Feb. 7; Gaz. vol. 163; p. 228.
Paper, Metal-coated. B. Kaufmann. No. 80,927; Feb. 14; Gaz. vol. 163; p. 478.
Paper, pads, and tablets, Writing. Hampton Roads Paper Co. No. 84,180; Nov. 14; Gaz. vol. 172; p. 545.
Paper, pasteboard, and blocks, Filtering. Papierfabrik Hahnemühle Gesellschaft mit beschränkter Haftung. No. 84,188; Nov. 14; Gaz. vol. 172; p. 546.
Paper, Printing-. West Virginia Pulp & Paper Company Nos. 82,938–40; Aug. 1; Gaz. vol. 169; p. 201.
Paper, Printing-. West Virginia Pulp & Paper Company Nos. 82,942–3; Aug. 1; Gaz. vol. 169; p. 201.
Paper, Roofing-. Merchant & Evans Company. No. 80,607; Jan. 10; Gaz. vol. 162; p. 534.
Paper, Stencil-. A. B. Dick Company. No. 81,203; Mar. 14; Gaz. vol. 164; p. 503.
Paper, Toilet-. Albany Perforated Wrapping Paper Company. No. 81,423; Apr. 4; Gaz. vol. 165; p. 238.
Paper, Toilet-. Albany Perforated Wrapping Paper Company. No. 81,424; Apr. 11; Gaz. vol. 165; p. 469.
Paper, Toilet-. Albany Perforated Wrapping Paper Company. Nos. 81,494–5; Apr. 18; Gaz. vol. 165; p. 725.
Paper, Toilet-. Albany Perforated Wrapping Paper Company. No. 82,193; June 13; Gaz. vol. 167; p. 509.
Paper, Toilet-. "Handifold" Toilet Paper Company. No. 82,512; July 4; Gaz. vol. 168; p. 245.
Paper, Toilet-. The John Hoberg Co. Nos. 82,886–8; Aug. 1; Gaz. vol. 169; p. 200.
Paper, Toilet-. Albany Perforated Wrapping Paper Company. No. 83,201; Aug. 29; Gaz. vol. 169; p. 1179.
Paper, Toilet-. Albany Perforated Wrapping Paper Company. No. 83,536; Sept. 26; Gaz. vol. 170; p. 923.
Paper used for books, booklets, and brochures. P. H. Glatfelter Company. No. 84,176; Nov. 14; Gaz. vol. 172; p. 545.
Paper wall-coverings. Salubratapeten-Fabrik Basel. No. 80,872; Feb. 7; Gaz. vol. 163; p. 228.
Paper, Wrapping-. Thoms Bros. Co. No. 81,487; Apr. 11; Gaz. vol. 165; p. 470.
Paper, Wrapping-. Warren Manufacturing Company. No. 81,929; May 16; Gaz. vol. 166; p. 749.
Paper, Wrapping-. Norvell-Shapleigh Hardware Company. No. 82,014; May 23; Gaz. vol. 166; p. 983.
Paper, Wrapping-. Charles F. Hubbs & Company. No. 82,151; June 6; Gaz. vol. 167; p. 237.
Paper, Wrapping-. D. S. Walton & Co. No. 82,934; Aug. 1; Gaz. vol. 169; p. 201.
Paper, Wrapping-. Southwestern Paper Company. No. 83,018; Aug. 8; Gaz. vol. 169; p. 447.
Paper, Wrapping-. T. P. Chapman Paper Co. No. 83,222; Aug. 29; Gaz. vol. 169; p. 1179.
Paper, Writing-. Beekman Paper & Card Company. No. 80,887; Feb. 14; Gaz. vol. 163; p. 477.
Paper, Writing-. Mountain Mill Paper Company. No. 80,932; Feb. 14; Gaz. vol. 163; p. 478.
Paper, Writing-. W. E. Wroe & Company. No. 82,192; June 6; Gaz. vol. 167; p. 238.
Paper, Writing-. West Virginia Pulp & Paper Company. No. 82,941; Aug. 1; Gaz. vol. 169; p. 201.
Paper, Writing and printing. Beekman Paper & Card Company. No. 80,509; Jan. 3; Gaz. vol. 162; p. 265.
Paper, Writing and printing. Chemical Paper Co. No. 80,760; Jan. 31; Gaz. vol. 162; p. 1179.
Paper, Writing and printing. Plover Paper Company. No. 81,354; Mar. 28; Gaz. vol. 164; p. 972.
Paper, Writing and printing. W. M. Donaldson. No. 81,438; Apr. 11; Gaz. vol. 165; p. 469.
Papers and envelops, Writing-. Samuel Ward Company. Nos. 82,540–1; July 4; Gaz. vol. 168; p. 246.
Papers, Certain felts and fabrics, siding and sheathing. Central Door & Lumber Company. No. 83,558; Sept. 26; Gaz. vol. 170; p. 923.
Papers or fabrics, Building, roofing, and sheathing. Barrett Manufacturing Company. No. 83,886; Oct. 24; Gaz. vol. 171; p. 979.
Papers, Print-. Mead Pulp and Paper Co. No. 83,268; Aug. 29; Gaz. vol. 169; p. 1181.
Papers, Roofing and siding. C. S. Bird. No. 81,580; Apr. 25; Gaz. vol. 165; p. 967.
Paris green. F. L. Lavanburg. No. 82,446; June 27; Gaz. vol. 167; p. 978.
Pastils for expelling worms from the system, Vegetable. Lanman & Kemp. No. 84,108; Nov. 7; Gaz. vol. 172; p. 256.
Pavements, Mineral-rubber. Standard Asphalt & Rubber Company. No. 83,864; Oct. 17; Gaz. vol. 171; p. 741.
Paving material, Composition. E. M. Chadbourne Company. No. 82,962; Aug. 8; Gaz. vol. 169; p. 445.
Peanut-butter. Bosman & Lohman Co. No. 82,407; June 27; Gaz. vol. 167; p. 977.
Peanut-roasters. Atsatt Bros. No. 82,490; July 4; Gaz. vol. 168; p. 245.
Peanuts and sweet chocolate, Salted. Huyler's. No. 81,148; Mar. 7; 164; p. 246.
Pearls, Imitation. E. Heusch. No. 82,231; June 13; Gaz. vol. 167; p. 510.
Peas, beans, wheat, &c., used as seeds. Rogers Brothers. No. 82,111; May 30; Gaz. vol. 166; p. 1279.
Pecans, Fresh cracked. R. E. Funsten Dried Fruit & Nut Co. No. 84,618; Dec. 26; Gaz. vol. 173; p. 1074.
Pencils. A. W. Faber. No. 81,259; Mar. 21; Gaz. vol. 164; p. 735.
Pencils. J. C. Morehead. No. 82,099; May 30; Gaz. vol. 166; p. 1278.
Pencils. A. W. Faber. No. 83,824; Oct. 17; Gaz. vol. 171; p. 739.
Pencils and rubber erasers, Lead-. E. Faber. No. 83,564; Sept. 26; Gaz. vol. 170; p. 923.
Pencils, Lead-. Eagle Pencil Company. No. 80,768; Jan. 31; Gaz. vol. 162; p. 1179.
Pencils, Lead-. L. A. Benecke. No. 81,427; Apr. 11; Gaz. vol. 165; p. 469.
Pencils, Lead-. E. Faber. Nos. 82,777–8; July 25; Gaz. vol. 168; p. 1028.
Pencils, pens, and penholders. Eagle Pencil Company. No. 83,822; Oct. 17; Gaz. vol. 171; p. 739.
Penholders. G. W. Alexander. No. 80,506; Jan. 3; Gaz. vol. 162; p. 265.
Pens. The Turner & Harrison Pen Manufacturing Co. No. 81,758; May 2; Gaz. vol. 166; p. 247.
Pens and the parts thereof, Fountain-. L. E. Waterman Company. No. 83,621; Sept. 26; Gaz. vol. 170; p. 925.
Pens, Fountain-. J. L. Goldsmith. No. 81,872; May 16; Gaz. vol. 166; p. 747.
Pens, Metallic. Eagle Pencil Company. No. 84,365; Dec. 5; Gaz. vol. 173; p. 283.
Pens of all kinds, Writing-. Esterbrook Steel Pen Man'f'g. Co. No. 82,687; July 18; Gaz. vol. 168; p. 783.
Pens, Steel. G. W. Hughes. No. 81,147; Mar. 7; Gaz. vol. 164; p. 246.
Pens, Writing-. Esterbrook Steel Pen Man'f'g. Co. Nos. 81,971–81; May 23; Gaz. vol. 166; p. 982.
Pens, Writing-. Esterbrook Steel Pen Man'f'g. Co. No. 83,970; Oct. 24; Gaz. vol. 171; p. 981.
Peppermint, Spirits of. De Ricqlès et Cie. No. 83,514; Sept. 19; Gaz. vol. 170; p. 700.
Perches, Poultry-. J. D. Carmichael. No. 84,362; Dec. 5; Gaz. vol. 173; p. 283.

Alphabetical list of trade-marks—Continued.

Perfumery. A. F. Haddad. No. 81,699; May 2; Gaz. vol. 166; p. 246.
Perfumery. The Corsini Parfumery Company Barden & Co. No. 82,306; June 20; Gaz. vol. 167; p. 757.
Perfumery. Sociedad Vinicola, S. & L. Durlacher. No. 82,837; July 25; Gaz. vol. 168; p. 1029.
Perfumery and other toilet preparations. H. et G. Klotz et Co. No. 82,898; Aug. 1; Gaz. vol. 169; p. 200.
Perfumery, toilet water, and sachets. John Blocki & Son. Nos. 82,566–7; July 11; Gaz. vol. 168; p. 519.
Perfumery, toilet waters, lotions, &c. John Gosnell & Co. No. 81,142; Mar. 7; Gaz. vol. 164; p. 245.
Perfumes. New York & London Drug Co. No. 83,086; Aug. 15; Gaz. vol. 169; p. 698.
Perfumes and face-powders. New York & London Drug Co. No. 83,087; Aug. 15; Gaz. vol. 169; p. 698.
Perfumes and toilet waters. The Andrew Jergens Co. No. 80,535; Jan. 3; Gaz. vol. 162; p. 265.
Perfumes, Liquid and powdered. Colgate & Co. No. 82,420; June 27; Gaz. vol. 167; p. 977.
Perfumes, perfumed toilet powders, &c. E. Palmer. Nos. 82,634–5; July 11; Gaz. vol. 168; p. 521.
Periodical. The W. F. T. Bushnell Company. No. 81,587; Apr. 25; Gaz. vol. 165; p. 967.
Periodical. L. S. Smith & Son Co. No. 83,016; Aug. 8; Gaz. vol. 169; p. 447.
Periodical issued annually. The Automobile Blue Book Publishing Co. No. 83,977; Oct. 31; Gaz. vol. 171; p. 1253.
Periodical, Monthly. The Ridgway Company. No. 81,103; Feb. 28; Gaz. vol. 163; p. 974.
Periodical, Monthly. Southern Planter Publishing Co. No. 81,233; Mar. 14; Gaz. vol. 164; p. 504.
Periodical, Weekly. Allied Publishing Company. No. 81,943; May 23; Gaz. vol. 166; p. 981.
Periodicals. The Rural Publishing Co. No. 82,914; Aug. 1; Gaz. vol. 169; p. 201.
Periodicals, Weekly. Munn & Co. No. 84,333; Nov. 28; Gaz. vol. 172; p. 1086.
Peroxid of hydrogen. W. H. Hayward. No. 84,393; Dec. 12; Gaz. vol. 173; p. 579.
Pessaries, Soluble. G. R. Blackie. No. 81,950; May 23; Gaz. vol. 166; p. 981.
Petroleum-pitch. Standard Oil Company. No. 84,416; Dec. 12; Gaz. vol. 173; p. 580.
Petticoats. Howenstine-Kramer Co. No. 21,276; Mar. 21; Gaz. vol. 164; p. 736.
Petticoats. S. Brener. No. 81,500; Apr. 18; Gaz. vol. 165; p. 725.
Petticoats. Rice-Stix Dry Goods Company. No. 83,773; Oct. 10; Gaz. vol. 171; p. 479.
Petticoats and underskirts. Sears, Roebuck & Company. No. 82,367; June 20; Gaz. vol. 167; p. 759.
Pharmaceutical product containing bromin. Society of Chemical Industry in Basle. No. 80,742; Jan. 24; Gaz. vol. 162; p. 996.
Photographic films. Austin Edwards, Limited. No. 81,061; Feb. 28; Gaz. vol. 163; p. 973.
Photographic films. L. Herman. No. 83,907; Oct. 24; Gaz. vol. 171; p. 979.
Photographic negatives, Intensifying compound for. Burke & James. No. 81,585; Apr. 25; Gaz. vol. 165; p. 967.
Photographic plates. Eastman Kodak Co. No. 83,328; Sept. 5; Gaz. vol. 170; p. 239.
Photographic prints, Redeveloping solution for. Burke & James. No. 81,586; Apr. 25; Gaz. vol. 165; p. 967.
Photographic prints, Sensitizing solution for making. Burke & James. No. 81,502; Apr. 18; Gaz. vol. 165; p. 725.
Photographic prints, Sensitizing solution for making. Burke & James. No. 81,584; Apr. 25; Gaz. vol. 165; p. 967.
Photographic toning preparations. Chemische Fabrik auf Actien (vorm. E. Schering). No. 84,595; Dec. 26; Gaz. vol. 173; p. 1074.
Photographs. Rotophot Gesellschaft für Photographische Industrie m. b. H. No. 82,021; May 23; Gaz. vol. 166; p. 983.
Piano-actions and piano-players. Autopiano Company. No. 83,540; Sept. 26; Gaz. vol. 170; p. 923.
Piano bass-dampers. G. Johansson. No. 83,259; Aug. 29; Gaz. vol. 169; p. 1180.
Piano-player music-rolls. The Vocalstyle Music Company. No. 82,539; July 4; Gaz. vol. 168; p. 246.
Piano-playing devices, Automatic. H. S. Hornbeck. No. 82,604; July 11; Gaz. vol. 168; p. 520.
Pianos. The Starr Piano Company. No. 83,371; Sept. 5; Gaz. vol. 170; p. 241.
Pianos. Steinway & Sons. No. 84,373; Dec. 5; Gaz. vol. 173; p. 283.
Pianos and organs. I. S. Purcell. No. 80,802; Jan. 31; Gaz. vol. 162; p. 1180.
Pianos and organs. Williams Piano & Organ Co. No. 82,126; May 30; Gaz. vol. 166; p. 1279.
Pianos and organs. The Hobart M. Cable Company. No. 82,868; Aug. 1; Gaz. vol. 169; p. 199.
Pianos and organs with automatic-player attachments built therein. Lyon & Healy. No. 83,846; Oct. 17; Gaz. vol. 171; p. 740.
Pianos and player-pianos. Bjur Bros. No. 81,120; Mar. 7; Gaz. vol. 164; p. 245.
Pianos and player-pianos. J. A. Weser. No. 83,876; Oct. 17; Gaz. vol. 171; p. 741.
Pianos containing mechanism for operating the same. Hallet & Davis Piano Co. No. 83,832; Oct. 17; Gaz. vol. 171; p. 740.
Pianos, organs, automatic piano-players, and self-playing pianos. The Cable Company. No. 81,248; Mar. 21; Gaz. vol. 164; p. 735.
Pianos, piano-players, and music-sheets, Player-. Aeolian Company. No. 81,045; Feb. 28; Gaz. vol. 163; p. 973.
Pianos, piano-players, player-pianos, and perforated music-sheets. Aeolian Company. Nos. 83,801–2; Oct. 17; Gaz. vol. 171; p. 739.
Pianos, Self-playing. O. J. De Moll & Co. No. 82,969; Aug. 8; Gaz. vol. 169; p. 445.
Pickles. Holbrooks Limited. No. 81,658; Apr. 25; Gaz. vol. 165; p. 969.
Picture films, Moving-. G. Méliès. No. 81,348; Mar. 28; Gaz. vol. 164; p. 972.
Picture films, Moving-. World's Best Film Company. No. 84,608; Dec. 26; Gaz. vol. 173; p. 1074.
Picture machines, Moving-. The Simplex Home Motion Picture Company. No. 84,539; Dec. 19; Gaz. vol. 173; p. 859.
Picture-projecting apparatus, Moving-. Edison Manufacturing Company. No. 81,060; Feb. 28; Gaz. vol. 163; p. 973.
Picture screens or curtains, Motion-. Sunlight Curtain Company. No. 84,550; Dec. 19; Gaz. vol. 173; p. 860.
Pictures and illustrations published serially. The New York Herald Company. Nos. 84,667–8; Dec. 26; Gaz. vol. 173; p. 1076.
Pictures, Decalcomania transfer-. Farbenfabriken of Elberfeld Company. No. 82,221; June 13; Gaz. vol. 167; p. 509.
Pictures mechanically printed on paper. The Rembrandt Intaglio Printing Company. No. 84,527; Dec. 19; Gaz. vol. 173; p. 859.
Piece goods, Certain. G. J. Geer. Nos. 80,841–3; Feb. 7; Gaz. vol. 163; p. 227.
Pigments. Deacon & Lambert. No. 84,468; Dec. 19; Gaz. vol. 173; p. 857.
Pigments, mixed paints, roofing-paints, varnishes, and stains. The National Roofing Company. No. 81,022; Feb. 21; Gaz. vol. 163; p. 724.
Pigments, paints, stains, and varnishes. Central Door & Lumber Company. No. 83,045; Aug. 15; Gaz. vol. 169; p. 697.
Pillows, Feather. Chas. Emmerich & Co. No. 80,770; Jan. 31; Gaz. vol. 162; p. 1179.
Pillows, mattresses, and upholstered furniture. The Wm. Schick Manufacturing Company. No. 82,263; June 13; Gaz. vol. 167; p. 511.
Pills. S. M. Free. No. 83,569; Sept. 26; Gaz. vol. 170; p. 924.
Pills, Cathartic. Lanman & Kemp. No. 84,109; Nov. 7; Gaz. vol. 172; p. 256.
Pills, Laxative. W. T. Hanson Co. No. 81,265; Mar. 21; Gaz. vol. 164; p. 735.
Pills, Liver-. L. P. Herrington. No. 82,792; July 25; Gaz. vol. 168; p. 1028.
Pills, Stomach and liver. B. A. Fahnestock Co. No. 81,447; Apr. 11; Gaz. vol. 165; p. 469.
Pine-tar. Jas. Corner & Sons. No. 83,898; Oct. 24; Gaz. vol. 171; p. 979.
Pins and needles. J. Zimmermann. No. 81,190; Mar. 7; Gaz. vol. 164; p. 247.
Pins, Safety-. American Pin Co. No. 81,425; Apr. 11; Gaz. vol. 165; p. 469.
Pins, Safety-. Marshall Field & Company. No. 83,997; Oct. 31; Gaz. vol. 171; p. 1253.
Pins, Toilet and safety. Oakville Company. No. 84,515; Dec. 19; Gaz. vol. 173; p. 859.
Pipe-covering, Felt. H. W. Johns-Manville Company. No. 84,102; Nov. 7; Gaz. vol. 172; p. 256
Pipe-unions. The Kelly & Jones Co. No. 82,334; June 20; Gaz. vol. 167; p. 758.
Pipes, Smokers'. National Cob Pipe Works. No. 83,429; Sept. 12; Gaz. vol. 170; p. 478.
Pitch filler. Kettle River Company. No. 84,104; Nov. 7; Gaz. vol. 172; p. 256.
Plant-setters, potato-diggers, and vegetable-digging machines. Ohio Rake Company. No. 83,939; Oct. 24; Gaz. vol. 171; p. 980.
Plants, Raspberry-. Holsinger Bros. No. 84,394; Dec. 12; Gaz. vol. 173; p. 579.
Planters and diggers, Potato. Champion Potato Machinery Co. No. 80,644; Jan. 17; Gaz. vol. 162; p. 779.
Plaster compounds and plaster of Paris. J. B. King & Co. No. 80,661; Jan. 17; Gaz. vol. 162; p. 779.
Plaster, Oxid-of-zinc adhesive. Seabury & Johnson. No. 83,694; Oct. 3; Gaz. vol. 171; p. 211.
Playing apparatus for keyboard instruments and their parts. Ludwig Hupfeld Aktiengesellschaft. No. 83,839; Oct. 17; Gaz. vol. 171; p. 740.
Pliers. F. W. Gesswein Company. No. 81,694; May 2; Gaz. vol. 166; p. 246.

Alphabetical list of trade-marks—Continued.

Plows. La Crosse Plow Company. No. 82,338; June 20; Gaz. vol. 167; p. 758.
Plows. Starke's Dixie Plow Works. No. 83,370; Sept. 5; Gaz. vol. 170; p. 241.
Plows. Hartig-Becker Plow Company. Nos. 84,229–30; Nov. 21; Gaz. vol. 172; p. 817.
Plows and parts thereof, Sulky-. Gale Manufacturing Co. No. 81,867; May 16; Gaz. vol. 166; p. 747.
Plumes and feathers, Artificial. Berlin & Trosky. No. 83,212; Aug. 29; Gaz. vol. 169; p. 1179.
Plumes, Ostrich-. J. G. de Grandmont. No. 82,968; Aug. 8; Gaz. vol. 169; p. 445.
Pocket-books. John Davenport & Company. No. 81,509; Apr. 18; Gaz. vol. 165; p. 725.
Pocket-books, portfolios, music-rolls, &c. The Roycrofters. No. 82,643; July 11; Gaz. vol. 168; p. 521.
Poison. B. L. Jensen. No. 84,638; Dec. 26; Gaz. vol. 173; p. 1075.
Poison fly-killers. The Watson Company. No. 81,419; Apr. 4; Gaz. vol. 165; p. 238.
Poison, Rat-. United Sales Co. No. 80,819; Jan. 31; Gaz. vol. 162; p. 1181.
Polish, Brass and oil. M. H. Oachs. No. 83,431; Sept. 12; Gaz. vol. 170; p. 478.
Polish for carriages, furniture, &c. A. H. Hanford. No. 84,627; Dec. 26; Gaz. vol. 173; p. 1075.
Polish for carriages, furniture, hardwood finishings, &c. A. H. Hanford. No. 82,080; May 30; Gaz. vol. 166; p. 1278.
Polish, Silver and metal. H. E. Williams. No. 83,460; Sept. 12; Gaz. vol. 170; p. 479.
Polish, Silver and metal. J. A. Wright & Co. No. 83,462; Sept. 12; Gaz. vol. 170; p. 479.
Polish, Wax wood-. W. H. Zinsser. No. 83,199; Aug. 22; Gaz. vol. 169; p. 941.
Polishing and cleaning preparation and cloth. The Floor Clean Company. No. 81,139; Mar. 7; Gaz. vol. 164; p. 245.
Polishing compound. J. Scrivner. No. 80,556; Jan. 3; Gaz. vol. 162; p. 266.
Polishing creams and fluids, Leather, metal, and glass. Humor Werke G. m. b. H. No. 84,486; Dec. 19; Gaz. vol. 173; p. 858.
Polishing creams and fluids, Leather, metal, and glass. Lubszynski & Co. No. 84,502; Dec. 19; Gaz. vol. 173; p. 858.
Polishing materials, Certain. The Nugget Polish Co. No. 82,629; July 11; Gaz. vol. 168; p. 521.
Pool-tables. W. Fuld. No. 83,828; Oct. 17; Gaz. vol. 171; p. 740.
Popcorn. Whitney Eckstein Seed Company. No. 81,187; Mar. 7; Gaz. vol. 164; p. 247.
Popped corn, nuts, and sweetening binding matter, Compound of. J. D. Parish. No. 81,904; May 16; Gaz. vol. 166; p. 748.
Porcelain tableware. J. Haviland. No. 81,705; May 2; Gaz. vol. 166; p. 246.
Post-cards, Christmas cards and letters, toy books, and prints for paper toys. Saml. Gabriel Sons & Company. No. 83,726; Oct. 10; Gaz. vol. 171; p. 477.
Potash, Caustic. Niagara Alkali Co. No. 83,850; Oct. 17; Gaz. vol. 171; p. 740.
Potassium iodid substitute. Society of Chemical Industry in Basle. No. 81,554; Apr. 18; Gaz. vol. 165; p. 726.
Pottery. Atkinson, Mentzer & Grover. No. 82,290; June 20; Gaz. vol. 167; p. 757.
Poultice. Thermo-Chemicals Company. No. 81,036; Feb. 21; Gaz. vol. 163; p. 725.
Poultry. L. S. Bache. No. 82,041; May 30; Gaz. vol. 166; p. 1277.
Powder and cosmetique cream, Face and complexion. J. Shulman. No. 82,369; June 20; Gaz. vol. 167; p. 759.
Powder and paste and mouth-wash, Tooth. Professional Dentifrice Company. No. 81,027; Feb. 21; Gaz. vol. 163; p. 724.
Powder, Antiseptic. F. C. Barto. No. 84,582; Dec. 26; Gaz. vol. 173; p. 1073.
Powder-blowers, atomizers, and nebulizers. De Vilbiss Manufacturing Company. No. 82,875; Aug. 1; Gaz. vol. 169; p. 199.
Powder, Face-. A. G. Schlueter. No. 82,833; July 25; Gaz. vol. 168; p. 1029.
Powder-puffs. P. Sussman. No. 80,845; Jan. 31; Gaz. vol. 162; p. 1181.
Powder, Rice-. Julius Schmid, Inc. No. 82,113; May 30; Gaz. vol. 166; p. 1279.
Powder, Smokeless. E. I. du Pont de Nemours Powder Co. No. 83,435; Sept. 12; Gaz. vol. 170; p. 478.
Powder, Talcum. Smith, Kline & French Co. No. 83,862; Oct. 17; Gaz. vol. 171; p. 740.
Powder, Talcum, sachet, face, and bath. Lazell, Perfumer. No. 82,899; Aug. 1; Gaz. vol. 169; p. 200.
Powder, Toilet. W. Migge. No. 82,904; Aug. 1; Gaz. vol. 169; p. 200.
Powder, Tooth-. F. Herb. No. 80,921; Feb. 14; Gaz. vol. 163; p. 478.
Powders and mouth-washes, Tooth-. The Crosby Chemical Co. No. 83,820; Oct. 17; Gaz. vol. 171; p. 739.
Powders, perfumeries, and face-creams, Talcum. Mannheimer Bros. No. 81,534; Apr. 18; Gaz. vol. 165; p. 726.
Powders, Sedlitz-. M. Perel. No. 84,337; Nov. 28; Gaz. vol. 172; p. 1086.
Powders, Toilet. J. B. Williams Company. No. 84,709; Dec. 26; Gaz. vol. 173; p. 1077.
Precious-metal and plated articles, Certain. Yale Jewelry Manufacturing Company. No. 80,823; Jan. 31; Gaz. vol. 162; p. 1181.
Precious-metal articles, Certain. Smith & Crosby. No. 80,810; Jan. 31; Gaz. vol. 162; p. 1180.
Preparation containing digitalis and strophanthus. A. Horowitz. No. 81,807; May 9; Gaz. vol. 166; p. 508.
Preparation for constipation. A. L. Ellis. No. 82,772; July 25; Gaz. vol. 168; p. 1028.
Preparation for exterminating ants. H. Diez. No. 81,793; May 9; Gaz. vol. 166; p. 507.
Preparation for exterminating roaches, water-bugs, &c. Waltemade Bros. Co. No. 82,662; July 11; Gaz. vol. 168; p. 522.
Preparation for removing dirt, stains, grease, &c. W. H. Barkley. No. 81,195; Mar. 14; Gaz. vol. 164; p. 503.
Preparation for softening the skin. D. Meyer. No. 81,018; Feb. 21; Gaz. vol. 163; p. 724.
Preparation for the treatment of anemia, &c. C. Sorger. No. 80,558; Jan. 3; Gaz. vol. 162; p. 266.
Preparation for thickening and seasoning soup, gravy, and stews. Cerebos, Limited. No. 81,503; Apr. 18; Gaz. vol. 165; p. 725.
Preparations, Certain. W. H. Hayward. No. 82,600; July 11; Gaz. vol. 168; p. 520.
Preparations for feeding game-birds and poultry. Spratt's Patent Limited. No. 82,838; July 25; Gaz. vol. 168; p. 1029.
Preparations for relief of gas in the stomach and bowels. J. Baalmann Co. No. 83,978; Oct. 31; Gaz. vol. 171; p. 1253.
Preparations for removing spots or stains from garments, &c. M. Gallet. No. 81,391; Apr. 4; Gaz. vol. 165; p. 237.
Preparations for the treatment of arteriosclerosis, &c. T. Teichgraeber. No. 81,035; Feb. 21; Gaz. vol. 163; p. 725.
Preserved cherries. Sprague, Warner & Company. No. 83,284; Aug. 29; Gaz. vol. 169; p. 1181.
Preserved fruits and mustard pickles. E. Tyler. No. 81,113; Feb. 28; Gaz. vol. 163; p. 975.
Preserving composition for articles of food. The Galo Manufacturing Company. No. 80,910; Feb. 14; Gaz. vol. 163; p. 477.
Presses, Seal-. Meyer & Wenthe. No. 82,706; July 18; Gaz. vol. 168; p. 784.
Printed impression, Compound for making a. F. A. Putnam. No. 84,189; Nov. 14; Gaz. vol. 172; p. 546.
Printed matter, Certain. Riverside Printing Company. No. 83,775; Oct. 10; Gaz. vol. 171; p. 479.
Printers' rollers. Bingham Brothers Company. No. 80,755; Jan. 31; Gaz. vol. 162; p. 1179.
Printing-presses. Automatic Press Feeder Company. No. 82,556; July 11; Gaz. vol. 168; p. 519.
Printing-presses. The Goss Printing Press Company. No. 82,976; Aug. 8; Gaz. vol. 169; p. 446.
Printing-presses. The American Paper Goods Company. No. 84,301; Nov. 28; Gaz. vol. 172; p. 1085.
Propellers. Mechanical Devices Co. No. 81,156; Mar. 7; Gaz. vol. 164; p. 246.
Propellers, Screw-. S. Heath. No. 81,876; May 16; Gaz. vol. 166; p. 748.
Prophylactic and remedial agents, Venereal. L. M. Maus. No. 82,450; June 27; Gaz. vol. 167; p. 978.
Prunes, Dried. Sherriffs Bros. Company. No. 80,877; Feb. 7; Gaz. vol. 163; p. 228.
Publication, Monthly. The E. L. Powers Co. No. 80,617; Jan. 10; Gaz. vol. 162; p. 534.
Publication, Monthly. The United States Trade Mark Association. No. 83,792; Oct. 10; Gaz. vol. 171; p. 479.
Publication, Periodical. New York Evening Journal Publishing Company. No. 83,595; Sept. 26; Gaz. vol. 170; p. 924.
Publication, Periodical. New York Evening Journal Publishing Company. Nos. 84,662–6; Dec. 26; Gaz. vol. 173; p. 1076.
Publication, Weekly. Fred L. Kimball Company. No. 80,600; Jan. 10; Gaz. vol. 162; p. 534.
Publication, Weekly. The Arthur Westbrook Company. No. 83,957; Oct. 24; Gaz. vol. 171; p. 981.
Publication, Weekly. Stoves & Hardware Publishing Company. No. 84,144; Nov. 7; Gaz. vol. 172; p. 257.
Publications, Annual. F. Mendelsohn. No. 83,758; Oct. 10; Gaz. vol. 171; p. 478.
Pulley-dressings. A. Ruben. No. 83,358; Sept. 5; Gaz. vol. 170; p. 240.
Pumps. Byron Jackson Iron Works. No. 83,473; Sept. 19; Gaz. vol. 170; p. 699.
Pumps and parts of same. The Darling Pump & Man'fg. Co. Nos. 81,963–4; May 23; Gaz. vol. 166; p. 981.
Pumps and parts thereof, Hydraulic. Flint and Walling Mfg. Co. No. 82,974; Aug. 8; Gaz. vol. 169; p. 446.
Pumps, Double-action-piston. The Goulds Manufacturing Company. No. 80,592; Jan. 10; Gaz. vol. 162; p. 533.

Alphabetical list of trade-marks—Continued.

Pumps for spraying fruit-trees. The Goulds Manufacturing Company. No. 81,874; May 16; Gaz. vol. 166; p. 748.
Pumps, Oil and gasolene. Kupferle Bros. Mfg. Co. No. 84,499; Dec. 19; Gaz. vol. 173; p. 858.
Pumps, Steam-. The American Well & Prospecting Co. No. 83,710; Oct. 10; Gaz. vol. 171; p. 477.
Purgative. Fairchild Bros. & Foster. No. 81,864; May 16; Gaz. vol. 166; p. 747.
Purgatives and laxatives. L. Osorio. No. 84,672; Dec. 26; Gaz. vol. 173; p. 1076.
Puzzle apparatus and toys. H. Newman. No. 83,594; Sept. 26; Gaz. vol. 170; p. 924.
Rain-coats. Goldman, Beckman & Co. No. 81,871; May 16; Gaz. vol. 166; p. 747.
Rainproof cloth. Scotia Worsted Mills. No. 83,184; Aug. 22; Gaz. vol. 169; p. 940.
Raisins. Kings County Raisin & Fruit Company. No. 82,335; June 20; Gaz. vol. 167; p. 758.
Raisins. Rosenberg Bros. & Co. No. 84,412; Dec. 12; Gaz. vol. 173; p. 580.
Rams, Hydraulic. Rife's Hydraulic Engine Manufacturing Co. No. 81,298; Mar. 21; Gaz. vol. 164; p. 736.
Range heat-distributers, Gas-. Dean Heat Distributor & Specialty Co. No. 81,684; May 2; Gaz. vol. 166; p. 245.
Ranges, stoves, furnaces, &c., and parts thereof. Ford Foundry Company. No. 81,987; May 23; Gaz. vol. 166; p. 982.
Razor-blade sharpeners and parts thereof. A. F. Meisselbach & Bro. No. 81,539; Apr. 18; Gaz. vol. 165; p. 726.
Razor blades, Safety-. "Cito" Sicherheits-Rasiermesser Gesellschaft m. b. H. No. 83,476; Sept. 19; Gaz. vol. 170; p. 699.
Razor-strops and razor-strop holders. E. Hunold. No. 82,692; July 18; Gaz. vol. 168; p. 783.
Razors. Alexis Witte Cutlery Company. Nos. 83,533–4; Sept. 19; Gaz. vol. 170; p. 701.
Razors and razor-guards. F. A. Reichardt. No. 80,619; Jan. 10; Gaz. vol. 162; p. 534.
Razors and razor-sharpeners. The Keenoh Company. No. 83,072; Aug. 15; Gaz. vol. 169; p. 698.
Razors and safety-razor blades, Safety-. United Safety Razor Company. No. 83,531; Sept. 19; Gaz. vol. 170; p. 701.
Razors and their parts, Safety-. Societe Generale de Coutellerie & Orfevrerie. No. 83,097; Aug. 15; Gaz. vol. 169; p. 698.
Razors, Safety-. Aluminum Goods Mfg. Co. No. 81,660; May 2; Gaz. vol. 166; p. 245.
Razors, shaving-machines, shears, scissors, and pocket-knives. G. M. Maluf. No. 82,704; July 18; Gaz. vol. 168; p. 784.
Razors, shears, knives, cutting-blades, &c. F. Birck. No. 82,292; June 20; Gaz. vol. 167; p. 757.
Razors, shears, scissors, and pocket-knives. Herfarth Bros. No. 82,983; Aug. 8; Gaz. vol. 169; p. 446.
Receptacles, Certain. Wheeling Corrugating Company. No. 82,944; Aug. 1; Gaz. vol. 169; p. 201.
Refrigerating apparatus. Société Des Etablissements Singrün. No. 81,175; Mar. 7; Gaz. vol. 164; p. 246.
Refrigeration and filtering apparatus. Sucro-Filter-Werk Sucro & Co. Gesellschaft mit beschränkter Haftung. No. 81,367; Mar. 28; Gaz. vol. 164; p. 972.
Refrigerators. The John C. Jewett Mfg. Co. No. 80,850; Feb. 7; Gaz. vol. 163; p. 227.
Refrigerators. Maine Manufacturing Company. Nos. 83,165–9; Aug. 22; Gaz. vol. 169; p. 940.
Refrigerators. Rhinelander Refrigerator Co. No. 83,599; Sept. 26; Gaz. vol. 170; p. 925.
Refrigerators. Maine Manufacturing Company. No. 83,927; Oct. 24; Gaz. vol. 171; p. 980.
Refrigerators and ice-boxes. Success Manufacturing Co. No. 83,611; Sept. 26; Gaz. vol. 170; p. 925.
Refrigerators, ice boxes and chests. Baldwin Refrigerator Co. Nos. 81,571–8; Apr. 25; Gaz. vol. 165; p. 967.
Refrigerators, ice boxes and chests. The Baldwin Refrigerator Co. Nos. 81,663–5; May 2; Gaz. vol. 166; p. 245.
Refrigerators, ice boxes and chests. The Baldwin Refrigerator Co. No. 81,775; May 9; Gaz. vol. 166; p. 507.
Refrigerators, ice chests and boxes. The Banta and Bender Co. No. 81,776; May 9; Gaz. vol. 166; p. 507.
Relishes, Vegetable. G. E. Everart. No. 81,880; May 16; Gaz. vol. 166; p. 748.
Remedial preparations for superfluous flesh and skin and scalp diseases. Conquest Remedy Company. No. 83,819; Oct. 17; Gaz. vol. 171; p. 739.
Remedies and talcum powders, Certain named. D. Weeks & Co. No. 82,484; June 27; Gaz. vol. 167; p. 979.
Remedies, Certain. The Koenig Medicine Company. No. 81,612; Apr. 25; Gaz. vol. 165; p. 968.
Remedies, Certain. A. Milone. No. 83,683; Oct. 3; Gaz. vol. 171; p. 210.
Remedies, Certain medicinal. Peninsular Chemical Co. No. 81,544; Apr. 18; Gaz. vol. 165; p. 726.
Remedies for catarrh and diseases of the liver and stomach. A. L. Huston. No. 84,235; Nov. 21; Gaz. vol. 172; p. 818.
Remedies for certain affections and a vermicide. N. N. Lewis. No. 83,073; Aug. 15; Gaz. vol. 169; p. 698.
Remedies for certain diseases. R. A. Morton. No. 80,793; Jan. 31; Gaz. vol. 162; p. 1180.
Remedies for certain diseases. E. L. Mertz. No. 80,862; Feb. 7; Gaz. vol. 163; p. 228.
Remedies for certain diseases. J. H. Desmarais. No. 81,131; Mar. 7; Gaz. vol. 164; p. 245.
Remedies for certain diseases. J. D. Riedel Aktien Gesellschaft. No. 81,482; Apr. 11; Gaz. vol. 165; p. 470.
Remedies for certain named diseases. E. H. Abington. No. 82,946; Aug. 8; Gaz. vol. 169; p. 445.
Remedies for chills, coughs, and corns, Medicinal. C. C. C. Company. No. 82,411; June 27; Gaz. vol. 167; p. 977.
Remedies for constipation and biliousness. L. C. Rohlfing. No. 84,411; Dec. 12; Gaz. vol. 173; p. 580.
Remedies for coughs. C. Crompton. No. 81,255; Mar. 21; Gaz. vol. 164; p. 735.
Remedies for diseases of the eyes. L. P. Savage. No. 80,739; Jan. 24; Gaz. vol. 162; p. 996.
Remedies for diseases of the liver and for diarrhea. Beaumont Medicine Co. No. 80,697; Jan. 24; Gaz. vol. 162; p. 995.
Remedies for diseases of the rectum. D. Weeks & Company. No. 82,665; July 11; Gaz. vol. 168; p. 522.
Remedies for diseases of the skin. Zensal Company. No. 84,155; Nov. 7; Gaz. vol. 172; p. 257.
Remedies for diseases of the vagina, ovaries, and womb. F. F. Froatz. No. 80,590; Jan. 10; Gaz. vol. 162; p. 533.
Remedies for gonorrhea. C. H. Sprague. No. 84,051; Oct. 31; Gaz. vol. 171; p. 1255.
Remedies for internal hemorrhages. E. B. and F. W. Quick. No. 81,823; May 9; Gaz. vol. 166; p. 508.
Remedies for kidney diseases and backache. W. B. Whitcombe. No. 81,566; Apr. 18; Gaz. vol. 165; p. 727.
Remedies for piles. W. D. Wallace. No. 80,745; Jan. 24; Gaz. vol. 162; p. 996.
Remedies for pulmonary diseases, coughs, colds, and general debility. Scott & Bowne. No. 81,231; Mar. 14; Gaz. vol. 164; p. 504.
Remedies for rheumatism and diseases of the throat, lungs, and liver. C. P. Loeper. No. 82,615; July 11; Gaz. vol. 168; p. 521.
Remedies for rheumatism, Finger-rings for use as. A. H. V. Levy. No. 80,788; Jan. 31; Gaz. vol. 162; p. 1180.
Remedies for skin diseases. Curapiel Company. No. 80,646; Jan. 17; Gaz. vol. 162; p. 779.
Remedies for treatment of gout and rheumatism. Chemische Fabrik auf Actien (vorm. E. Schering). No. 84,596; Dec. 26; Gaz. vol. 173; p. 1074.
Remedies for venereal diseases. J. D. Sevier. No. 81,553; Apr. 18; Gaz. vol. 165; p. 726.
Remedies, Headache. General Drug Company. No. 80,651; Jan. 17; Gaz. vol. 162; p. 779.
Remedies, Headache. General Drug Company. No. 81,069; Feb. 28; Gaz. vol. 163; p. 973.
Remedies, Lung and dropsy. W. Lewis. No. 80,663; Jan. 17; Gaz. vol. 162; p. 780.
Remedies, Rheumatic. Martin Specialty Co. No. 84,327; Nov. 28; Gaz. vol. 172; p. 1086.
Remedies, tablets, powders, &c., Certain medicinal. American Drug and Press Association. No. 81,771; May 9; Gaz. vol. 166; p. 507.
Remedy and insecticide for stock and poultry, Blood. V. H. Justis. No. 83,071; Aug. 15; Gaz. vol. 169; p. 698.
Remedy, borated cream, and cough-syrup, Kidney. T. J. Britton. No. 81,849; May 16; Gaz. vol. 166; p. 747.
Remedy, Cancer. J. H. Suss. No. 81,112; Feb. 28; Gaz. vol. 163; p. 975.
Remedy, Certain. L. F. Eldridge. No. 81,598; Apr. 25; Gaz. vol. 165; p. 968.
Remedy, Certain medicinal. A. N. Bowman. No. 81,670; May 2; Gaz vol. 166; p. 245.
Remedy, Certain medicinal. The Munyon Company. No. 81,734; May 2; Gaz. vol. 166; p. 247.
Remedy, Certain medicinal. S. C. Wells & Company. No. 81,764; May 2; Gaz. vol. 166; p. 248.
Remedy, Certain medicinal. H. O. Hurley. No. 82,331; June 20; Gaz. vol. 167; p. 758.
Remedy, Certain named. E. Pardi. No. 82,468; June 27; Gaz. vol. 167; p. 979.
Remedy, Corn. A. A. Schoenheit. No. 80,876; Feb. 7; Gaz. vol. 163; p. 228.
Remedy, Dandruff. The Retone Company. No. 84,528; Dec. 19; Gaz. vol. 173; p. 859.
Remedy, Dyspepsia. The Dr. H. F. Weis Medicine Co. No. 81,373; Mar. 28; Gaz. vol. 164; p. 972.
Remedy for affections of the nerves. Farbwerke vorm. Meister Lucius & Brüning. No. 81,062; Feb. 28; Gaz. vol. 163; p. 973.
Remedy for affections of the nose, mouth, throat, and lungs. C. F. York. No. 81,655; Apr. 25; Gaz. vol. 165; p. 969.
Remedy for ailments caused by worms in horses. J. M. Meschke. No. 80,792; Jan. 31; Gaz. vol. 162; p. 1180.
Remedy for anemia, nervous debility, &c. H. T. Gray. No. 82,323; June 20; Gaz. vol. 167; p. 758.
Remedy for asthma. J. C. Wyatt. No. 80,884; Feb. 7; Gaz. vol. 163; p. 228.
Remedy for blackheads, pimples, open pores, and yellow skin. A. S. Katz. No. 84,103; Nov. 7; Gaz. vol. 172; p. 256.

Alphabetical list of trade-marks—Continued.

Remedy for blood diseases. E. L. Andrews. No. 82,554; July 11; Gaz. vol. 168; p. 519.
Remedy for blood diseases and an alterative. E. S. Gould. No. 82,977; Aug. 8; Gaz. vol. 169; p. 446.
Remedy for blood diseases, Veterinary. T. B. Bowman. No. 82,569; July 11; Gaz. vol. 168; p. 519.
Remedy for blood-poison. J. H. Moon. No. 82,813; July 25; Gaz. vol. 168; p. 1029.
Remedy for cancers. K. Bird. No. 83,981; Oct. 31; Gaz. vol. 171; 1253.
Remedy for catarrhal disorders. Minneapolis Drug Company. No. 82,812; July 25; Gaz. vol. 168; p. 1029.
Remedy for certain ailments. W. C. Jaeger. No. 84,491; Dec. 19; Gaz. vol. 173; p. 858.
Remedy for certain ailments. J. H. Zeilin & Company. No. 84,562; Dec. 19; Gaz. vol. 173; p. 860.
Remedy for certain diseases. K. C. Auen. No. 80,752; Jan. 31; Gaz. vol. 162; p. 1179.
Remedy for certain diseases. W. L. Lyman. No. 82,005; May 23; Gaz. vol. 166; p. 983.
Remedy for certain diseases. W. M. Whigham. No. 82,125; May 30; Gaz. vol. 166; p. 1279.
Remedy for certain diseases. F. A. Barret Chemical Company. No. 82,198; June 13; Gaz. vol. 167; p. 509.
Remedy for certain diseases. S. J. Barnett. No. 83,128; Aug. 22; Gaz. vol. 169; p. 939.
Remedy for certain diseases. The Rheumentha Company. No. 83,513; Sept. 19; Gaz. vol. 170; p. 700.
Remedy for certain diseases. Pittman Medicine Co. No. 83,857; Oct. 17; Gaz. vol. 171; p. 740.
Remedy for certain diseases. L. Graux. No. 84,093; Nov. 7; Gaz. vol. 172; p. 255.
Remedy for certain diseases. Radical Remedy Co. No. 84,678; Dec. 26; Gaz. vol. 173; p. 1076.
Remedy for certain diseases, a laxative, and a nerve-tonic. R. J. Parrett. No. 80,615; Jan. 10; Gaz. vol. 162; p. 534.
Remedy for certain diseases and a tonic. Uricacide Medicine Co. No. 83,618; Sept. 26; Gaz. vol. 170; p. 925.
Remedy for certain diseases and nervous affections. J. S. Miller. No. 82,622; July 11; Gaz. vol. 168; p. 521.
Remedy for certain named diseases. J. W. Douthitt. No. 80,993; Feb. 21; Gaz. vol. 163; p. 723.
Remedy for certain named diseases. C. W. Bailey. No. 81,118; Mar. 7; Gaz. vol. 164; p. 245.
Remedy for certain named diseases. C. H. Smith. No. 82,921; Aug. 1; Gaz. vol. 169; p. 201.
Remedy for chilblains. G. A. Johnson. No. 82,607; July 11; Gaz. vol. 168; p. 520.
Remedy for colic, indigestion, &c., in cattle and horses. R. W. Pyle. No. 84,338; Nov. 28; Gaz. vol. 172; p. 1086.
Remedy for constipation. J. C. Wunder. No. 80,693; Jan. 17; Gaz. vol. 162; p. 780.
Remedy for consumption, &c. Henry, Johnson & Lord. No. 81,707; May 2; Gaz. vol. 166; p. 246.
Remedy for consumption and asthma. Gregory, Puckett & Co. No. 81,696; May 2; Gaz. vol. 166; p. 246.
Remedy for consumption, catarrh, and rheumatism. J. G. W. Werneburg. No. 83,703; Oct. 3; Gaz. vol. 171; p. 211.
Remedy for corns, bunions, calli, and warts. C. Scheuerl. No. 84,685; Dec. 26; Gaz. vol. 173; p. 1076.
Remedy for coughs. E. Guggenheim. No. 81,212; Mar. 14; Gaz. vol. 164; p. 503.
Remedy for coughs and colds. Davis & Lawrence Co. No. 82,214; June 13; Gaz. vol. 167; p. 509.
Remedy for coughs, colds, asthma, bronchitis. Thomas Lowell, Limited. No. 83,511; Sept. 19; Gaz. vol. 170; p. 700.
Remedy for coughs, colds, catarrh, &c. C. F. York. No. 81,656; Apr. 25; Gaz. vol. 165; p. 969.
Remedy for croup and pneumonia. Littlejohn Medicine Co. No. 84,651; Dec. 26; Gaz. vol. 173; p. 1075.
Remedy for dandruff. H. H. Densford and Co. No. 83,992; Oct. 31; Gaz. vol. 171; p. 1253.
Remedy for dandruff and a hair-tonic. F. H. Eshelman. No. 83,483; Sept. 19; Gaz. vol. 170; p. 699.
Remedy for diseases of the blood. L. C. Finlay. No. 80,908; Feb. 14; Gaz. vol. 163; p. 477.
Remedy for diseases of the blood. S. Matthews. No. 81,730; May 2; Gaz. vol. 166; p. 247.
Remedy for diseases of the bowels and stomach. Nourrilean Remedy Company. No. 84,671; Dec. 26; Gaz. vol. 173; p. 1076.
Remedy for diseases of the eyes. J. A. Jones. No. 80,721; Jan. 24; Gaz. vol. 162; p. 995.
Remedy for diseases of the eyes. E. B. I. Medicine Co. No. 84,219; Nov. 21; Gaz. vol. 172; p. 817.
Remedy for diseases of the heart. K. F. Smith. No. 80,811; Jan. 31; Gaz. vol. 162; p. 1180.
Remedy for diseases of the heart. The Hoffmann-La Roche Chemical Works. No. 83,738; Oct. 10; Gaz. vol. 171; p. 478.
Remedy for diseases of the kidneys, blood, and stomach. T. C. Givens. No. 82,595; July 11; Gaz. vol. 168; p. 520.
Remedy for diseases of the liver. C. F. Simmons Medicine Company. No. 84,689; Dec. 26; Gaz. vol. 173; p. 1076.
Remedy for diseases of the mouth and throat. H. H. Ink. No. 83,495; Sept. 19; Gaz. vol. 170; p. 700.
Remedy for diseases of the nervous system. E. Samarelli. No. 83,859; Oct. 17; Gaz. vol. 171; p. 740.
Remedy for diseases of the stomach. Harris Barnes Medicine Co. No. 84,451; Dec. 19; Gaz. vol. 173; p. 857.
Remedy for diseases of the stomach and bowels. Victor Chemical Company. No. 83,871; Oct. 17; Gaz. vol. 171; p. 741.
Remedy for diseases of the throat and lungs. J. H. Hubbard. No. 84,318; Nov. 28; Gaz. vol. 172; p. 1085.
Remedy for diseases of the urinary organs. Vial. No. 83,870; Oct. 17; Gaz. vol. 171; p. 741.
Remedy for dyspepsia. D. R. Smith. No. 81,830; May 9; Gaz. vol. 166; p. 508.
Remedy for dyspepsia. G. H. Smith. No. 83,445; Sept. 12; Gaz. vol. 170; p. 478.
Remedy for eczema. J. E. Blake, Jr. No. 81,777; May 9; Gaz. vol. 166; p. 507.
Remedy for eczema and an effervescent salt. Belcco Company. No. 84,584; Dec. 26; Gaz. vol. 173; p. 1073.
Remedy for eczema and skin affections. E. G. Kriechbaum. No. 84,497; Dec. 19; Gaz. vol. 173; p. 858.
Remedy for eczema, lupus, &c. J. C. Etherton. No. 83,059; Aug. 15; Gaz. vol. 169; p. 697.
Remedy for female complaints. The Franco American Chemical Co. No. 80,840; Feb. 7; Gaz. vol. 163; p. 227.
Remedy for female diseases. The Koester Chemical Company. No. 82,003; May 23; Gaz. vol. 166; p. 982.
Remedy for female diseases. The Bemidji Chemical Co. No. 82,561; July 11; Gaz. vol. 168; p. 519.
Remedy for female diseases. M. L. Christman. No. 82,759; July 25; Gaz. vol. 168; p. 1027.
Remedy for gall-stones. M. von Barby. No. 82,747; July 25; Gaz. vol. 168; p. 1027.
Remedy for gonorrhea, &c. W. Loose. No. 83,658; Oct. 3; Gaz. vol. 171; p. 210.
Remedy for headache. H. N. Wheeler. No. 82,849; July 25; Gaz. vol. 168; p. 1030.
Remedy for headache, nervousness, and stomach troubles. Celery Soda Co. No. 81,674; May 2; Gaz. vol. 166; p. 245.
Remedy for headaches and neuralgic affections. R. B. Smith. No. 84,137; Nov. 7; Gaz. vol. 172; p. 257.
Remedy for heaves. D. C. Metz. No. 83,680; Oct. 3; Gaz. vol. 171; p. 210.
Remedy for hemorrhoids and liver-tablets. J. F. Walsh. No. 83,624; Sept. 26; Gaz. vol. 170; p. 925.
Remedy for hog-cholera. Purdom Brothers Company. No. 84,256; Nov. 21; Gaz. vol. 172; p. 818.
Remedy for inflammatory conditions. American Barbers Chemical Co. No. 82,552; July 11; Gaz. vol. 168; p. 519.
Remedy for intestinal affections. P. Boucard. No. 81,952; May 23; Gaz. vol. 166; p. 981.
Remedy for liver, kidney, and bladder troubles. Reynolds & Vaught. No. 83,946; Oct. 24; Gaz. vol. 171; p. 981.
Remedy for loss of nervous energy. Valentine H. Smith & Co. No. 81,307; Mar. 21; Gaz. vol. 164; p. 737.
Remedy for nervousness and rheumatic troubles. L. Loesihy. No. 81,343; Mar. 28; Gaz. vol. 164; p. 971.
Remedy for neuralgia and headache. C. H. Hudson. No. 81,393; Apr. 4; Gaz. vol. 165; p. 237.
Remedy for ophthalmic disorders, &c. Actien-Gesellschaft für Anilin Fabrikation. No. 82,283; June 20; Gaz. vol. 167; p. 757.
Remedy for phthisis. Hoffmann-La Roche Chemical Works. No. 80,717; Jan. 24; Gaz. vol. 162; p. 995.
Remedy for piles. Taylor and Beaudin. No. 81,310; Mar. 21; Gaz. vol. 164; p. 737.
Remedy for piles. W. H. Peffle. No. 81,821; May 9; Gaz. vol. 166; p. 508.
Remedy for piles. Lenoir Medicine Company. No. 82,805; July 25; Gaz. vol. 168; p. 1029.
Remedy for piles. W. A. Smith. No. 82,836; July 25; Gaz. vol. 168; p. 1029.
Remedy for piles and a hair-tonic. M. Straub Manufacturing Company. No. 82,274; June 13; Gaz. vol. 167; p. 511.
Remedy for poison oak and ivy poisoning. J. B. Saunders. No. 81,914; May 16; Gaz. vol. 166; p. 749.
Remedy for rheumatism. The Milo Remedy Co. No. 84,248; Nov. 21; Gaz. vol. 172; p. 818.
Remedy for rheumatism. J. Kropp. No. 84,498; Dec. 19; Gaz. vol. 173; p. 858.
Remedy for rheumatism, gout, lumbago, &c. Turner's Pharmacy. No. 81,181; Mar. 7; Gaz. vol. 164; p. 246.
Remedy for rheumatism, neuralgia, and lumbago. F. A. Parker. No. 82,167; June 6; Gaz. vol. 167; p. 238.
Remedy for roup, cholera, and bowel trouble. D. J. Walker. No. 83,872; Oct. 17; Gaz. vol. 171; p. 741.
Remedy for skin diseases. A. Henig. No. 82,230; June 13; Gaz. vol. 167; p. 510.
Remedy for sore, burning, blistering, aching feet. The Germicide Co. No. 80,775; Jan. 31; Gaz. vol. 162; p. 1179.
Remedy for stomach and bowel troubles. H. E. Rood. No. 83,947; Oct. 24; Gaz. vol. 171; p. 981.
Remedy for stomach, liver, and kidney diseases. C. R. Lawson. No. 84,324; Nov. 28; Gaz. vol. 172; p. 1085.
Remedy for stomach, liver, and kidney trouble. E. J. Rose. No. 82,175; June 6; Gaz. vol. 167; p. 238.

Alphabetical list of trade-marks—Continued.

Remedy for syphilis and similar blood diseases. H. A. Metz & Co. Nos. 83,590–1; Sept. 26; Gaz. vol. 170; p. 924.
Remedy for the improvement of the blood. L. Graux. No. 81,605; Apr. 25; Gaz. vol. 165; p. 968.
Remedy for the tobacco habit. A. M. Mead. No. 84,505; Dec. 19; Gaz. vol. 173; p. 858.
Remedy for throat and lung diseases and general debility. The Oleon Chemical Co. No. 81,739; May 2; Gaz. vol. 166; p. 247.
Remedy for throat diseases. Brant and Heuer. No. 83,044; Aug. 15; Gaz. vol. 169; p. 697.
Remedy for torpid livers, chills and fever, &c. W. C. McKissack. No. 82,619; July 11; Gaz. vol. 168; p. 521.
Remedy for ulcers, sores, cancers, &c. M. J. Mustonen. No. 82,814; July 25; Gaz. vol. 168; p. 1029.
Remedy for venereal diseases. The Tarrant Company. No. 82,844; July 25; Gaz. vol. 168; p. 1030.
Remedy, Laxative. Tri-Tone Drug Manufacturing Company. No. 83,700; Oct. 3; Gaz. vol. 171; p. 211.
Remedy, Medicinal. The Interstate Drug Company. No. 83,916; Oct. 24; Gaz. vol. 171; p. 980.
Remedy, ointment, and massaging compound, Certain. The McQueeney Chemical Co. No. 81,617; Apr. 25; Gaz. vol. 165; p. 968.
Remedy, Pile. Kish-wau Medicine Company. No. 83,655; Oct. 3; Gaz. vol. 171; p. 209.
Remedy, Pile. A. M. Bretherton. No. 84,587; Dec. 26; Gaz. vol. 173; p. 1073.
Resin acid esters. E. Schaal. No. 82,648; July 11; Gaz. vol. 168; p. 522.
Rice. Standard Milling Company. No. 81,365; Mar. 28; Gaz. vol. 164; p. 972.
Rice. The United States Rice Milling Company. No. 81,417; Apr. 4; Gaz. vol. 165; p. 238.
Rice. R. Goldsmith. No. 81,604; Apr. 25; Gaz. vol. 165; p. 968.
Rice. The United States Rice Milling Company. No. 82,029; May 23; Gaz. vol. 166; p. 983.
Rice. Standard Milling Company. Nos. 82,271–2; June 13; Gaz. vol. 167; p. 511.
Rice. Seaboard Rice Milling Co. No. 83,011; Aug. 8; Gaz. vol. 169; p. 447.
Rice. Ridenour Baker Grocery Company. No. 83,279; Aug. 29; Gaz. vol. 169; p. 1181.
Rice. John S. Talmage Company. No. 83,529; Sept. 19; Gaz. vol. 170; p. 701.
Rice, Head-. W. T. Welisch & Company. No. 82,485; June 27; Gaz. vol. 167; p. 979.
Rice, Head-. Francis H. Leggett & Company. No. 83,263; Aug. 29; Gaz. vol. 169; p. 1180.
Rifles, Air-. Daisy Manufacturing Co. No. 82,309; June 20; Gaz. vol. 167; p. 757.
Rings, baby-pins, bracelets, &c., Finger-. Clark & Coombs Co. No. 82,418; June 27; Gaz. vol. 167; p. 977.
Rings, Finger-. Ostby and Barton Company. No. 82,631; July 11; Gaz. vol. 168; p. 521.
Rings, Finger-. Ostby and Barton Company. No. 82,716; July 18; Gaz. vol. 168; p. 784.
Rings, Gold. Queen City Ring Mfg. Co. No. 84,190; Nov. 14; Gaz. vol. 172; p. 546.
Road-bonding materials. J. W. Hall. No. 81,074; Feb. 28; Gaz. vol. 163; p. 973.
Roads, Coal-tar preparation for. F. Raschig. No. 81,102; Feb. 28; Gaz. vol. 163; p. 974.
Roads, Tarry coating for. American Tar Company. No. 82,553; July 11; Gaz. vol. 168; p. 519.
Roads, Tarry coating for. American Tar Company. No. 82,857; Aug. 1; Gaz. vol. 169; p. 199.
Rock-candy and maple-syrup, Blend of. Rigney & Company. No. 81,744; May 2; Gaz. vol. 166; p. 247.
Rolled oats, prunes, and dried fruits. The Haserot Canneries Company. No. 84,483; Dec. 19; Gaz. vol. 173; p. 858.
Roofing. Warren Chemical & Manufacturing Company. No. 81,762; May 2; Gaz. vol. 166; p. 248.
Roofing, Asphalt sheet-. Russell & Dexter Company. No. 83,776; Oct. 10; Gaz. vol. 171; p. 479.
Roofing, Composition. B. F. Nelson Manufacturing Company. No. 82,815; July 25; Gaz. vol. 168; p. 1029.
Roofing, Felt. Wm. Cameron & Co. No. 81,673; May 2; Gaz. vol. 166; p. 245.
Roofing material. The Hydrex Felt & Engineering Company. No. 81,465; Apr. 11; Gaz. vol. 165; p. 470.
Roofing material, Fabricated composite sheet. Federal Process Company. Nos. 80,649–50; Jan. 17; Gaz. vol. 162; p. 779.
Roofing materials containing asbestos. Barrett Manufacturing Company. No. 83,808; Oct. 17; Gaz. vol. 171; p. 739.
Roofing, Sheet-metal. Indianapolis Corrugating Co. No. 82,238; June 13; Gaz. vol. 167; p. 510.
Rope. Dodge Manufacturing Company. No. 80,712; Jan. 24; Gaz. vol. 162; p. 995.
Rope, Manila and sisal. Columbian Rope Co. No. 83,717; Oct. 10; Gaz. vol. 171; p. 477.
Rope, Sisal. Covert Mfg. Co. No. 84,601; Dec. 26; Gaz. vol. 173; p. 1074.
Rope, Wire. John A. Roeblings Sons Co. No. 81,746; May 2; Gaz. vol. 166; p. 247.
Rope, Wire. Hazard Manufacturing Company. No. 82,601; July 11; Gaz. vol. 168; p. 520.
Rope, Wire. Macomber & Whyte Rope Company. No. 83,754; Oct. 10; Gaz. vol. 171; p. 478.
Rosaries. C. H. Post. No. 83,436; Sept. 12; Gaz. vol. 170; p. 478.
Rouge. Julius Schmid, Inc. No. 82,112; May 30; Gaz. vol. 166; p. 1279.
Rubber and asbestos packing. C. H. Oakley. No. 81,478; Apr. 11; Gaz. vol. 165; p. 470.
Rubber and rubber gums. Continental Rubber Company of New York. No. 80,763; Jan. 31; Gaz. vol. 162; p. 1179.
Rubber and rubber substitute. J. L. Rostau. No. 81,361; Mar. 28; Gaz. vol. 164; p. 972.
Rubber bands. E. Faber. No. 84,366; Dec. 5; Gaz. vol. 173; p. 283.
Rubber belting. C. A. Daniel. No. 81,130; Mar. 7; Gaz. vol. 164; p. 245.
Rubber belting, hose, machinery packing, &c. Gorham Rubber Company. No. 80,846; Feb. 7; Gaz. vol. 163; p. 227.
Rubber boots and shoes. Hood Rubber Co. No. 81,218; Mar. 14; Gaz. vol. 164; p. 503.
Rubber boots and shoes. Bourn Rubber Co. No. 81,246; Mar. 21; Gaz. vol. 164; p. 735.
Rubber boots and shoes and overshoes. Hood Rubber Co. No. 81,079; Feb. 28; Gaz. vol. 163; p. 974.
Rubber boots, shoes, overshoes, &c. Hood Rubber Co. No. 82,330; June 20; Gaz. vol. 167; p. 758.
Rubber combs. The Vulcanized Rubber Company. No. 80,562; Jan. 3; Gaz. vol. 162; p. 266.
Rubber combs. The Vulcanized Rubber Co. No. 82,933; Aug. 1; Gaz. vol. 169; p. 201.
Rubber erasers. E. Faber. No. 83,565; Sept. 26; Gaz. vol. 170; p. 924.
Rubber erasers and bands, lead-pencils, and penholders. E. Faber. No. 82,776; July 25; Gaz. vol. 168; p. 1028.
Rubber gloves. The Faultless Rubber Company. No. 83,566; Sept. 26; Gaz. vol. 170; p. 924.
Rubber goods, Certain. Goodyear Rubber Hose & Packing Co. No. 82,883; Aug. 1; Gaz. vol. 169; p. 200.
Rubber goods, Certain. National India Rubber Co. No. 84,508; Dec. 19; Gaz. vol. 173; p. 858.
Rubber goods, Certain kinds of. Imperial Rubber Co. No. 83,583; Sept. 26; Gaz. vol. 170; p. 924.
Rubber goods, Plumbers'. The Canfield Rubber Co. No. 82,413; June 27; Gaz. vol. 167; p. 977.
Rubber heels. Elwell Rubber Manufacturing Co. No. 81,135; Mar. 7; Gaz. vol. 164; p. 245.
Rubber heels. O'Sullivan Rubber Company. No. 83,274; Aug. 29; Gaz. vol. 169; p. 1181.
Rubber heels. Frank W. Whitcher Company. No. 83,300; Aug. 29; Gaz. vol. 169; p. 1182.
Rubber heels. Elwell Rubber Manufacturing Company. No. 83,721; Oct. 10; Gaz. vol. 171; p. 477.
Rubber hose. Goodyear Rubber Co. No. 83,732; Oct. 10; Gaz. vol. 171; p. 477.
Rubber hose, machinery packing, pump-valves, &c. Goodyear Rubber Hose & Packing Co. No. 82,882; Aug. 1; Gaz. vol. 169; p. 200.
Rubber, Raw, waste, or reclaimed. J. L. Rostau. No. 81,107; Feb. 28; Gaz. vol. 163; p. 974.
Rubber syringes. E. Sander. No. 83,948; Oct. 24; Gaz. vol. 171; p. 981.
Rubber washers. The Canfield Rubber Co. No. 82,135; June 6; Gaz. vol. 167; p. 237.
Rubberized or waterproofed fabrics. J. C. Milne. No. 83,682; Oct. 3; Gaz. vol. 171; p. 210.
Rug and carpet fasteners. The Samuel Donchian Rug Company. No. 84,299; Nov. 21; Gaz. vol. 172; p. 819.
Rugs. Costikyan & Company. No. 81,859; May 16; Gaz. vol. 166; p. 747.
Rugs. G. F. Penny. No. 84,520; Dec. 19; Gaz. vol. 173; p. 859.
Rugs and blankets, Auto and steamer shawl. T. Kelly & Co. No. 83,743; Oct. 10; Gaz. vol. 171; p. 478.
Rugs and carpets. Plymouth Mills. No. 81,355; Mar. 28; Gaz. vol. 164; p. 972.
Rugs, Oriental. The Samuel Donchian Rug Company. No. 84,470; Dec. 19; Gaz. vol. 173; p. 857.
Rugs, Textile. McCleary, Wallin and Crouse. No. 83,756; Oct. 10; Gaz. vol. 171; p. 478.
Saddlery hardware goods, Certain. Imperial Bit & Snap Co. No. 83,739; Oct. 10; Gaz. vol. 171; p. 478.
Saddles, riding-bridles, harness, and horse-collars. The Shreveport Saddlery Co. No. 80,956; Feb. 14; Gaz. vol. 163; p. 479.
Sake. T. Yamamura. No. 84,577; Dec. 26; Gaz. vol. 173; p. 1073.
Salad-dressing powder. Closset & Devers. No. 83,478; Sept. 19; Gaz. vol. 170; p. 699.
Salt. The Wadsworth Salt Co. Nos. 82,278–9; June 13; Gaz. vol. 167; p. 511.
Salt. Wadsworth Salt Co. No. 82,386; June 20; Gaz. vol. 167; p. 760.
Salve. V. M. Pickel. No. 81,822; May 9; Gaz. vol. 166; p. 508.
Salve. Owl Chemical Company. No. 82,466; June 27; Gaz. vol. 167; p. 979.

Alphabetical list of trade-marks—Continued.

Salve. The Griswold Salve Corporation. No. 83,065; Aug. 15; Gaz. vol. 169; p. 697.
Salve. A. Koubek. No. 84,237; Nov. 21; Gaz. vol. 172; p. 818.
Salve, Catarrh-. C. B. Carpenter. No. 81,853; May 16; Gaz. vol. 166; p. 747.
Salve, chill-tonic, and toilet powder. J. S. Burton Medicine Co. No. 82,046; May 30; Gaz. vol. 166; p. 1277.
Salve, Corn-. W. H. Clerke. No. 82,760; July 25; Gaz. vol. 168; p. 1027.
Salve or ointment of witch-hazel. Lanman & Kemp. No. 83,748; Oct. 10; Gaz. vol. 171; p. 478.
Salves. M. B. Binkley. No. 82,564; July 11; Gaz. vol. 168; p. 519.
Salves and ointments. S. E. Soltau. No. 81,555; Apr. 18; Gaz. vol. 165; p. 726.
Salves and rat-poison. F. P. Smith. No. 81,639; Apr. 25; Gaz. vol. 165; p. 969.
Sapphires. L. Heller & Son. No. 82,148; June 6; Gaz. vol. 167; p. 237.
Sardines. M. Block. No. 83,813; Oct. 17; Gaz. vol. 171; p. 739.
Sash and door fixtures, Window-. Tabor Sash Fixture Co. No. 82,728; July 18; Gaz. vol. 168; p. 784.
Satchels. The Nugget Polish Co. No. 84,031; Oct. 31; Gaz. vol. 171; p. 1254.
Sauce. Georgia Barbecue Sauce Co. No. 80,844; Feb. 7; Gaz. vol. 163; p. 227.
Sauce and tomato catsup, Pepper. Ridenour-Baker Grocery Company. No. 84,529; Dec. 19; Gaz. vol. 173; p. 859.
Sauce, Bohemian-style. G. A. Schneebeli. No. 81,916; May 16; Gaz. vol. 166; p. 749.
Sauce, Mushroom. C. Bokay. No. 81,581; Apr. 25; Gaz. vol. 165; p. 967.
Sauce or dressing preparation. W. Symington & Co. No. 84,696; Dec. 26; Gaz. vol. 173; p. 1077.
Sauce, Table. F. Y. Hashiba. No. 83,332; Sept. 5; Gaz. vol. 170; p. 239.
Sausage-binder. S. Oppenheimer & Company. No. 84,126; Nov. 7; Gaz. vol. 172; p. 256.
Sausage, picnics, and chickens. T. M. Sinclair & Co. No. 84,540; Dec. 19; Gaz. vol. 173; p. 859.
Sausage, Pork. E. J. Willis. No. 81,375; Mar. 28; Gaz. vol. 164; p. 972.
Sautoires, bracelets, pins, crosses, &c. Crane & Theurer. No. 82,307; June 20; Gaz. vol. 167; p. 757.
Sawmill machinery. Salem Iron Works. No. 81,031; Feb. 21; Gaz. vol. 163; p. 725.
Saws. E. C. Atkins & Company. Nos. 82,950–1; Aug. 8; Gaz. vol. 169; p. 445.
Saws. Markt & Hammacher Company. No. 83,503; Sept. 19; Gaz. vol. 170; p. 700.
Scales, Computing and price. National Scales Corporation. No. 83,935; Oct. 24; Gaz. vol. 171; p. 980.
Scientific apparatus and appliances, Certain. Emil Busch Aktiengesellschaft, Optische Industrie. No. 81,431; Apr. 11; Gaz. vol. 165; p. 469.
Scouring and polishing powder. The National Cleanser Mfg. Co. No. 80,867; Feb. 7; Gaz. vol. 163; p. 228.
Scouring and polishing powder. Daland & Company. No. 81,681; May 2; Gaz. vol. 166; p. 245.
Scouring preparation. Nulac Company. No. 83,272; Aug. 29; Gaz. vol. 169; p. 1181.
Screws. The National-Acme Manufacturing Company. Nos. 83,762–3; Oct. 10; Gaz. vol. 171; p. 478.
Screws. The National-Acme Manufacturing Company. No. 84,252; Nov. 21; Gaz. vol. 172; p. 818.
Screws and screw-machine products. National-Acme Manufacturing Company. No. 84,120; Nov. 7; Gaz. vol. 172; p. 256.
Screws and screw-machine products. National-Acme Manufacturing Company. No. 84,122; Nov. 7; Gaz. vol. 172; p. 256.
Sealing machines. Envelop-. Mayo Manufacturing Company. No. 81,471; Apr. 11; Gaz. vol. 165; p. 470.
Sedative and hypnotic. Farbenfabriken of Elberfeld Company. No. 81,136; Mar. 7; Gaz. vol. 164; p. 245.
Seed-beans. Michigan Milling Company. No. 82,707; July 18; Gaz. vol. 168; p. 784.
Seed, Grass-. The Holbrook Grocery Co. No. 81,273; Mar. 21; Gaz. vol. 164; p. 736.
Seed, Grass-. E. W. Conklin & Son. No. 84,599; Dec. 26; Gaz. vol. 173; p. 1074.
Seed, Grass and clover. Shaw, Hammond & Carney. No. 81,484; Apr. 11; Gaz. vol. 165; p. 470.
Seed-separating machines. H. H. Hoge. No. 81,077; Feb. 28; Gaz. vol. 163; p. 974.
Seeds. J. Carter & Co. No. 84,308; Nov. 28; Gaz. vol. 172; p. 1085.
Seeds. O. H. Will & Co. No. 84,443; Dec. 12; Gaz. vol. 173; p. 581.
Seeds, Certain named. The Philadelphia Seed Co. Nos. 84,406–7; Dec. 12; Gaz. vol. 173; p. 580.
Serum and tonic. C. H. F. Richter. No. 82,825; July 25; Gaz. vol. 168; p. 1029.
Sewing-machine needles. The Singer Manufacturing Company. No. 83,015; Aug. 8; Gaz. vol. 169; p. 447.
Sewing-machines. O. D. Kies. No. 81,533; Apr. 18; Gaz. vol. 165; p. 726.
Sewing-machines and attachments. The Standard Sewing Machine Company. No. 84,543; Dec. 19; Gaz. vol. 173; p. 859.
Shampoo-powder. O. W. Tanke. No. 82,377; June 20; Gaz. vol. 167; p. 759.
Shampoo preparation. J. Scherman & Company. No. 81,634; Apr. 25; Gaz. vol. 165; p. 969.
Shampoo preparation. The Koken Barbers' Supply Company. No. 82,094; May 30; Gaz. vol. 166; p. 1278.
Shears, pruners, snips, razors, &c. H. Clauss. No. 81,383; Apr. 4; Gaz. vol. 165; p. 237.
Sheep dipping-powder. Usine de Desargentation Société Anonyme. No. 82,932; Aug. 1; Gaz. vol. 169; p. 201.
Sheet metal. The Cincinnati Sheet Metal & Roofing Company. No. 81,591; Apr. 25; Gaz. vol. 165; p. 967.
Sheet-metal cans and baskets. Rochester Can Company. No. 80,806; Jan. 31; Gaz. vol. 162; p. 1180.
Sheets, pillow-cases, rugs, blankets, and shawls. William Hollins & Co. Ld. No. 83,910; Oct. 24; Gaz. vol. 171; p. 979.
Sheeting, sheets, pillow and bolster cases. The New York Mills. No. 80,671; Jan. 17; Gaz. vol. 162; p. 780.
Sheetings, Cotton. Naumkeag Steam Cotton Co. No. 81,285; Mar. 21; Gaz. vol. 164; p. 736.
Sheetings, sheets, bolster and pillow cases. Rice-Stix Dry Goods Company. No. 81,357; Mar. 28; Gaz. vol. 164; p. 972.
Shellac and other varnishes. W. H. Zinsser. No. 82,739; July 18; Gaz. vol. 168; p. 785.
Shingles, Wood. Shepard-Traill Co. No. 83,282; Aug. 29; Gaz. vol. 169; p. 1181.
Shirt-waists. Hynard & Meehan. No. 82,606; July 11; Gaz. vol. 168; p. 520.
Shirt-waists. Oppenheim, Oberndorf & Co. No. 84,033; Oct. 31; Gaz. vol. 171; p. 1254.
Shirt-waists and dresses. French Tea Gown Co. No. 80,773; Jan. 31; Gaz. vol. 162; p. 1179.
Shirt-waists and dresses. J. & M. Cohn. No. 83,048; Aug. 15; Gaz. vol. 169; p. 697.
Shirt-waists, gloves, skirts, and drawers. The Sheldon Dry Goods Company. No. 83,444; Sept. 12; Gaz. vol. 170; p. 478.
Shirt-waists, Ladies'. Schwarz & Wild. No. 82,916; Aug. 1; Gaz. vol. 169; p. 201.
Shirt-waists, Ladies'. Greenhut-Siegel Cooper Co. No. 83,733; Oct. 10; Gaz. vol. 171; p. 477.
Shirt-waists, Ladies'. Trio Waist Company. No. 84,062; Oct. 31; Gaz. vol. 171; p. 1255.
Shirt-waists, shirts, underwear, gloves, and mittens. Syracuse Dry Goods Company. No. 81,923; May 16; Gaz. vol. 166; p. 749.
Shirts. Salant & Salant. No. 80,682; Jan. 17; Gaz. vol. 162; p. 780.
Shirts. E. Rosenfeld and Co. Nos. 80,734–7; Jan. 24; Gaz. vol. 162; p. 996.
Shirts. Oppenheim, Oberndorf & Co. No. 82,464; June 27; Gaz. vol. 167; p. 979.
Shirts. Roggen Bros & Co. No. 84,046; Oct. 31; Gaz. vol. 171; p. 1254.
Shirts and pajamas, Night-. E. Rosenfeld and Co. No. 80,738; Jan. 24; Gaz. vol. 162; p. 996.
Shirts and underwear, Negligée. C. Whitman & Co. No. 83,625; Sept. 26; Gaz. vol. 170; p. 925.
Shirts, collars, underwear, and pajamas, Men's. Tim & Co. No. 83,530; Sept. 19; Gaz. vol. 170; p. 701.
Shirts, drawers, and union suits. C. E. Shedaker & Sons. No. 81,232; Mar. 14; Gaz. vol. 164; p. 504.
Shirts, Dress and negligée. Konig & Stolz. No. 84,496; Dec. 19; Gaz. vol. 173; p. 858.
Shirts, jumper-coats, and overalls, Work-. L. Lewin. No. 82,806; July 25; Gaz. vol. 168; p. 1029.
Shirts, Men's. Meyerhoff, Son & Company. No. 83,427; Sept. 12; Gaz. vol. 170; p. 478.
Shirts, Men's. Oppenheim, Oberndorf & Co. No. 84,032; Oct. 31; Gaz. vol. 171; p. 1254.
Shirts, Men's and boys' work-. Golden Rule Shirt Company. No. 82,881; Aug. 1; Gaz. vol. 169; p. 200.
Shirts, Men's work-. Princesse Manufacturing Company. No. 81,170; Mar. 7; Gaz. vol. 164; p. 246.
Shirts, Negligée. M. Reinhart. No. 84,526; Dec. 19; Gaz. vol. 173; p. 859.
Shirts, Negligée and work. Standard Overall Co. No. 81,309; Mar. 21; Gaz. vol. 164; p. 737.
Shirts, Night-. Oppenheim, Oberndorf & Co. No. 84,034; Oct. 31; Gaz. vol. 171; p. 1254.
Shirts, overalls, undercoats, and trousers. Wise Brothers. No. 81,492; Apr. 11; Gaz. vol. 165; p. 471.
Shirts, Work-. Carson, Pirie, Scott & Co. No. 81,854; May 16; Gaz. vol. 166; p. 747.
Shirtings. T. A. Harris. No. 81,266; Mar. 21; Gaz. vol. 164; p. 735.
Shirtings, White and colored. T. A. Harris. No. 80,918; Feb. 14; Gaz. vol. 163; p. 478.
Shoddy. The Extract Wool and Merino Company. No. 83,399; Sept. 12; Gaz. vol. 170; p. 477.
Shoe-counters. Gardiner, Beardsell & Company. Nos. 83,900–1; Oct. 24; Gaz. vol. 171; p. 979.
Shoe-polish. O. D. Logan. No. 81,224; Mar. 14; Gaz. vol. 164; p. 504.

Alphabetical list of trade-marks—Continued.

Shoe-polish. S. M. Bixby & Co. No. 84,074; Nov. 7; Gaz. vol. 172; p. 255.
Shoe-polish. Kapantais Mouzakiotis & Company. No. 84,506; Dec. 19; Gaz. vol. 173; p. 858.
Shoe polish and paste. E. J. Stickney. No. 81,486; Apr. 11; Gaz. vol. 165; p. 470.
Shoe polishes, dressings, and creams. National Shoe Polish Manufacturing Company. No. 81,351; Mar. 28; Gaz. vol. 164; p. 972.
Shoes. The Brown Shoe Co. No. 81,247; Mar. 21; Gaz. vol. 164; p. 735.
Shoes. Slater & Morrill. No. 81,829; May 9; Gaz. vol. 166; p. 508.
Shoes. Rice & Hutchins. No. 83,774; Oct. 10; Gaz. vol. 171; p. 479.
Shoes and slippers. Daniel Green Felt Shoe Company. No. 84,315; Nov. 28; Gaz. vol. 172; p. 1085.
Shoes, Children's leather and canvas. S. Freiburger & Bro. No. 83,974; Oct. 24; Gaz. vol. 171; p. 981.
Shoes, hosiery, and outer shirts, Leather. Dreyfuss Export Co. No. 81,968; May 23; Gaz. vol. 166; p. 981.
Shoes, Leather. Roberts, Johnson & Rand Shoe Company. No. 81,030; Feb. 21; Gaz. vol. 163; p. 724.
Shoes, Leather. F. Mayer Boot & Shoe Co. No. 81,087; Feb. 28; Gaz. vol. 163; p. 974.
Shoes, Leather. Cushion Heel Shoe Company. No. 81,680; May 2; Gaz. vol. 166; p. 245.
Shoes, Leather. Kepner-Scott Shoe Co. No. 83,262; Aug. 29; Gaz. vol. 169; p. 1180.
Shoes, Leather. M. Oppenheim. No. 83,344; Sept. 5; Gaz. vol. 170; p. 240.
Shoes, Leather. Foreman Shoe Company. No. 83,724; Oct. 10; Gaz. vol. 171; p. 477.
Shoes, Leather and canvas. C. Schroeder. No. 81,032; Feb. 21; Gaz. vol. 163; p. 725.
Shoes, Leather and felt. Hitchcock-Stockbridge Co. No. 84,485; Dec. 19; Gaz. vol. 173; p. 858.
Shoes, Men's and boys'. A. E. Nettleton Company. No. 82,711; July 18; Gaz. vol. 168; p. 784.
Shoes, Men's leather. Golden State Shoe Co. No. 81,070; Feb. 28; Gaz. vol. 163; p. 973.
Shoes, Women's leather. Hirth-Krause Co. No. 81,528; Apr. 18; Gaz. vol. 165; p. 726.
Shovels, spades, and scoops. Ames Shovel and Tool Company. Nos. 83,310–12; Sept. 5; Gaz. vol. 170; p. 239.
Shovels, spades, and scoops. Ames Shovel and Tool Company. No. 84,070; Nov. 7; Gaz. vol. 172; p. 255.
Shovels, spades, scoops, and drainage-tools. Ames Shovel and Tool Company. Nos. 84,564–76; Dec. 26; Gaz. vol. 173; p. 1073.
Sickles, scythes, hoes, &c. Alfred Andresen & Company. No. 82,289; June 20; Gaz. vol. 167; p. 757.
Signal horns and alarms, Electrically-operated. Lovell-McConnell Manufacturing Company. Nos. 80,789–90; Jan. 31; Gaz. vol. 162; p. 1180.
Signs and posters, Paper and cardboard. New York Window Sign Co. No. 83,849; Oct. 17; Gaz. vol. 171; p. 740.
Silicate of soda. Philadelphia Quartz Company. Nos. 80,943–50; Feb. 14; Gaz. vol. 163; p. 478.
Silk and cotton mull. Carson, Pirie, Scott & Co. No. 84,460; Dec. 19; Gaz. vol. 173; p. 857.
Silk and mixed silk and cotton piece goods. Rogers & Thompson. No. 81,301; Mar. 21; Gaz. vol. 164; p. 736.
Silk piece goods. The Valentine & Bentley Silk Co. No. 81,039; Feb. 21; Gaz. vol. 163; p. 725.
Silk piece goods. M. C. Migel & Co. No. 81,282; Mar. 21; Gaz. vol. 164; p. 736.
Silk piece goods. Chas. A. Maish Co. No. 82,006; May 23; Gaz. vol. 166; p. 983.
Silk piece goods. Atuyer, Bianchini, Férier & Co. No. 82,954; Aug. 8; Gaz. vol. 169; p. 445.
Silk piece goods. The Valentine & Bentley Silk Co. No. 83,030; Aug. 8; Gaz. vol. 169; p. 447.
Silk piece goods. Spunella Ltd. No. 84,542; Dec. 19; Gaz. vol. 173; p. 859.
Silk piece goods. M. C. Migel & Co. No. 84,656; Dec. 26; Gaz. vol. 173; p. 1075.
Silk, Spool-. Oneida Community. No. 83,432; Sept. 12; Gaz. vol. 170; p. 478.
Silks, Waterproofed and spot-proofed. Rogers & Thompson. No. 84,340; Nov. 28; Gaz. vol. 172; p. 1086.
Silver hollow and flat ware. M. J. Wolferman. No. 83,303; Aug. 29; Gaz. vol. 169; p. 1182.
Silver, Solution of. A. Hagen. No. 80,916; Feb. 14; Gaz. vol. 163; p. 478.
Silverware, Flat and hollow. Reed & Barton Corporation. No. 84,525; Dec. 19; Gaz. vol. 173; p. 859.
Size which is used in various branches of textile trades. The "Gloy" Manufacturing Company. No. 81,799; May 9; Gaz. vol. 166; p. 508.
Skates, Roller-. C. M. Ams. No. 83,711; Oct. 10; Gaz. vol. 171; p. 477.
Skirts, Dress-. H. Simonoff. No. 82,725; July 18; Gaz. vol. 168; p. 784.
Skirts, Dress-. Strawbridge & Clothier. No. 83,021; Aug. 8; Gaz. vol. 169; p. 447.
Skirts, Outer. Silverstein Bros. No. 82,919; Aug. 1; Gaz. vol. 169; p. 201.
Slate, Roofing-. Washington Standard Slate Company. No. 81,042; Feb. 21; Gaz. vol. 163; p. 725.
Sleeping-bags for children. C. Whitman & Co. No. 83,378; Sept. 5; Gaz. vol. 170; p. 241.
Slippers, shoes, and mittens. J. P. Grosvenor. No. 82,510; July 4; Gaz. vol. 168; p. 245.
Snuff, cheroots, and stogies. S. Clague. No. 82,050; May 30; Gaz. vol. 166; p. 1277.
Soap. Philadelphia Quartz Company. No. 80,733; Jan. 24; Gaz. vol. 162; p. 996.
Soap. The Globe Soap Company. Nos. 80,999–81,000; Feb. 21; Gaz. vol. 163; p. 724.
Soap. W. T. Grosse. No. 81,526; Apr. 18; Gaz. vol. 165; p. 726.
Soap. C. Soap Company. No. 81,672; May 2; Gaz. vol. 166; p. 245.
Soap. K. A. Lingner. No. 82,160; June 6; Gaz. vol. 167; p. 237.
Soap. The M. J. Schnaible Company. No. 82,366; June 20; Gaz. vol. 167; p. 759.
Soap. W. T. Grosse. No. 82,453; June 27; Gaz. vol. 167; p. 978.
Soap. C. E. Marsh. Nos. 82,616–17; July 11; Gaz. vol. 168; p. 521.
Soap. L. C. Wedgefuth. No. 82,664; July 11; Gaz. vol. 168; p. 522.
Soap. W. T. Grosse Co. No. 82,788; July 25; Gaz. vol. 168; p. 1028.
Soap. Lightfoot Schultz Co. No. 83,074; Aug. 15; Gaz. vol. 169; p. 698.
Soap. The Wilbert Company. No. 83,459; Sept. 12; Gaz. vol. 170; p. 479.
Soap. Barclay & Barclay. Nos. 83,629–30; Oct. 3; Gaz. vol. 171; p. 209.
Soap. Haskins Bros. & Company. No. 83,646; Oct. 3; Gaz. vol. 171; p. 209.
Soap. F. O. Knoettner. No. 84,010; Oct. 31; Gaz. vol. 171; p. 1254.
Soap. A. W. Stadler. No. 84,052; Oct. 31; Gaz. vol. 171; p. 1255.
Soap. West Disinfecting Company. No. 84,064; Oct. 31; Gaz. vol. 171; p. 1255.
Soap. Scotch-Tone Remedy Co. No. 84,534; Dec. 19; Gaz. vol. 173; p. 859.
Soap. The J. B. Williams Company. No. 84,560; Dec. 19; Gaz. vol. 173; p. 860.
Soap. The Williams Soap Company. No. 84,561; Dec. 19; Gaz. vol. 173; p. 860.
Soap and a compound for cleaning purposes, Hand-. Electric Cleanser Company. No. 84,472; Dec. 19; Gaz. vol. 173; p. 857.
Soap and metal-polish. Puritan Soap Company. No. 81,356; Mar. 28; Gaz. vol. 164; p. 972.
Soap and metal-polish. E. H. Wagner. No. 83,454; Sept. 12; Gaz. vol. 170; p. 479.
Soap, Fluid. Bobrick Chemical Co. No. 83,214; Aug. 29; Gaz. vol. 169; p. 1179.
Soap for scouring and washing dishes. I. Rokeach & Sons. No. 82,261; June 13; Gaz. vol. 167; p. 511.
Soap, Laundry. The Procter & Gamble Company. No. 81,101; Feb. 28; Gaz. vol. 163; p. 974.
Soap, Laundry. Haskins Brothers and Company. No. 82,325; June 20; Gaz. vol. 167; p. 758.
Soap, Medicated. J. J. Wolf. No. 83,301; Aug. 29; Gaz. vol. 169; p. 1182.
Soap, Medicated. Vertriebsgesellschaft chem. technischer Neuheiten Dr. Schnell & Co. G. m. b. H. No. 83,701; Oct. 3; Gaz. vol. 171; p. 211.
Soap, Medicinal and toilet. Robinson Bros. & Company. No. 82,110; May 30; Gaz. vol. 166; p. 1279.
Soap, Medicinal and toilet. A. Goodenough. No. 82,431; June 27; Gaz. vol. 167; p. 978.
Soap, Medicinal liquid compound. O. W. Breustedt. No. 83,387; Sept. 12; Gaz. vol. 170; p. 477.
Soap, Perfumed. John Gosnell & Co. No. 81,141; Mar. 7; Gaz. vol. 164; p. 245.
Soap, Scouring-. Burnida Mfg. Co. No. 83,218; Aug. 29; Gaz. vol. 169; p. 1179.
Soap, Scouring and polishing. Daland & Company. No. 83,051; Aug. 15; Gaz. vol. 169; p. 697.
Soap, Semiliquid. S. Strunz & Son. No. 80,743; Jan. 24; Gaz. vol. 162; p. 996.
Soap, Shaving-. Fesler Sales Company. No. 81,330; Mar. 28; Gaz. vol. 164; p. 971.
Soap, Toilet. J. Warner. No. 81,314; Mar. 21; Gaz. vol. 164; p. 737.
Soap, Toilet. C. H. Hoag. No. 81,336; Mar. 28; Gaz. vol. 164; p. 971.
Soap, Toilet. Mülhens & Kropff. No. 83,686; Oct. 3; Gaz. vol. 171; p. 210.
Soap, Tooth-. K. k. landespriv. Milly-Kerzen-, Seifen-und Glycerin-Fabrik, von F. A. Sarg's Sohn & Co. No. 82,023; May 23; Gaz. vol. 166; p. 983.
Soap used as a detergent and a polish. H. M. Clayton. No. 83,394; Sept. 12; Gaz. vol. 170; p. 477.
Soaps. Colgate & Co. No. 80,896; Feb. 14; Gaz. vol. 163; p. 477.
Soaps. C. W. Young and Company. No. 82,128; May 30; Gaz. vol. 166; p. 1279.

Alphabetical list of trade-marks—Continued.

Soaps. The Theo. Ricksecker Co. No. 83,438; Sept. 12; Gaz. vol. 170; p. 478.
Soaps. A. J. Neisz Company. No. 84,510; Dec. 19; Gaz. vol. 173; p. 859.
Soaps and soap powders. K. A. Lingner. No. 83,417; Sept. 12; Gaz. vol. 170; p. 478.
Soaps, Toilet and shaving. H. J. Dorée. No. 83,234; Aug. 29; Gaz. vol. 169; p. 1180.
Soapstone and talc and flake graphite, Powdered. R. M. Hollingshead Co. No. 82,083; May 30; Gaz. vol. 166; p. 1278.
Soda, Bicarbonate of. Michigan Alkali Company. No. 82,452; June 27; Gaz. vol. 167; p. 978.
Soda-phosphate compound. T. W. Hillier. No. 82,326; June 20; Gaz. vol. 167; p. 758.
Soda, Silicate of. Philadelphia Quartz Company. No. 81,099; Feb. 28; Gaz. vol. 163; p. 974.
Soda, Silicate of. Philadelphia Quartz Company. No. 81,353; Mar. 28; Gaz. vol. 164; p. 972.
Soda, Washing-. Church & Dwight Co. No. 81,125; Mar. 7; Gaz. vol. 164; p. 245.
Soda-water. Grattan & Co. No. 83,643; Oct. 3; Gaz. vol. 171; p. 209.
Soda-water. J. B. Lambert. No. 84,012; Oct. 31; Gaz. vol. 171; p. 1254.
Solder and antifriction metal alloys. John T. Lewis & Bros. Company. No. 82,447; June 27; Gaz. vol. 167; p. 978.
Solder, Plumbers'. Crane-Hawley Company. No. 82,424; June 27; Gaz. vol. 167; p. 978.
Soldering-fluxes. L. R. Benson. No. 83,469; Sept. 19; Gaz. vol. 170; p. 699.
Solvent for uric acid. L. Graux. No. 80,778; Jan. 31; Gaz. vol. 162; p. 1179.
Sorghum, Imitation. The Sherman-Cosner Mercantile Co. No. 84,261; Nov. 21; Gaz. vol. 172; p. 818.
Soups. Merrell-Soule Co. No. 82,163; June 6; Gaz. vol. 167; p. 238.
Spark-plugs. A. R. Mosler & Co. No. 81,225; Mar. 14; Gaz. vol. 164; p. 504.
Spark-plugs. The "New-Way" Motor Company. No. 82,350; June 20; Gaz. vol. 167; p. 759.
Spark-plugs. Volcano Spark Plug Company. No. 83,109; Aug. 15; Gaz. vol. 169; p. 699.
Spark-plugs. C. A. Mezger, Inc. No. 82,929; Oct. 24; Gaz. vol. 171; p. 980.
Spark-plugs. Motor Accessories Mfg. Co. No. 84,657; Dec. 26; Gaz. vol. 173; p. 1075.
Spark plugs and coils and magnetos. The K-W Ignition Company. No. 82,333; June 20; Gaz. vol. 167; p. 758.
Sparking plugs. M. E. C. J. Perez. No. 81,168; Mar. 7; Gaz. vol. 164; p. 246.
Spectacles and eyeglasses. Joseph Friedlander & Bro. No. 84,617; Dec. 26; Gaz. vol. 173; p. 1074.
Spectacles and eyeglasses, frames and mountings therefor. T. V. Murray. No. 82,013; May 23; Gaz. vol. 166; p. 983.
Speed-indicators. Mann & Willkomm, Aktiengesellschaft. No. 83,079; Aug. 15; Gaz. vol. 169; p. 698.
Spelter. Société Anonyme des Mines et Fonderies de Zinc de la Vieille Montagne. No. 84,139; Nov. 7; Gaz. vol. 172; p. 257.
Spices and flavoring extracts. C. H. Adams Company. No. 80,966; Feb. 21; Gaz. vol. 163; p. 723.
Spices and rice. Ouerbacker Coffee Company. No. 83,179; Aug. 22; Gaz. vol. 169; p. 940.
Spices, teas, and flavoring extracts. The Canby, Ach & Canby Co. No. 84,165; Nov. 14; Gaz. vol. 172; p. 545.
Sponges. D. Davis. No. 83,560; Sept. 26; Gaz. vol. 170; p. 923.
Spool-cotton. Blodgett & Orswell Co. No. 81,245; Mar. 21; Gaz. vol. 164; 735.
Spool-cotton. Blodgett & Orswell Co. No. 81,669; May 2; Gaz. vol. 166; p. 245.
Spoons. Oneida Community. No. 82,907; Aug. 1; Gaz. vol. 169; p. 200.
Sporting goods, Certain. G. A. Reach. No. 81,230; Mar. 14; Gaz. vol. 164; p. 504.
Sporting goods, Certain. Norvell-Shapleigh Hardware Company. No. 81,289; Mar. 21; Gaz. vol. 164; p. 736.
Sprayers and spraying-machines. Field Force Pump Company. No. 81,063; Feb. 28; Gaz. vol. 163; p. 973.
Sprayers, Hand-. Judd & Leland Mfg. Co. Nos. 81,998–9; May 23; Gaz. vol. 166; p. 982.
Stains, Shingle-. The Charles H. Brown Paint Co. No. 81,501; Apr. 18; Gaz. vol. 165; p. 725.
Stairway, Movable. F. E. Bessler. No. 80,825; Feb. 7; Gaz. vol. 163; p. 227.
Starch, Edible. National Starch Company. No. 81,093; Feb. 28; Gaz. vol. 163; p. 974.
Starch, Edible. National Starch Company. Nos. 82,101–2; May 30; Gaz. vol. 166; p. 1278.
Starch for laundry, sizing, and stiffening. National Starch Company. No. 81,092; Feb. 28; Gaz. vol. 163; p. 974.
Starch, Laundry. Osborn & Sattig. No. 81,621; Apr. 25; Gaz. vol. 165; p. 968.
Starch, Laundry. Domestic Finish Starch Co. No. 81,685; May 2; Gaz. vol. 166; p. 245.
Starch, Laundry. National Starch Company. Nos. 81,901–2; May 16; Gaz. vol. 166; p. 748.
Starch, Laundry. A. E. Staley M'f'g Co. No. 82,269; June 13; Gaz. vol. 167; p. 511.
Starch, Laundry. A. E. Staley M'f'g. Co. No. 83,698; Oct. 3; Gaz. vol. 171; p. 211.
Starch, Laundry. National Starch Company. No. 84,334; Nov. 28; Gaz. vol. 172; p. 1086.
Starch, Laundry. The Arabol Mfg. Co. No. 84,578; Dec. 26; Gaz. vol. 173; p. 1073.
Starch polish. C. Damcke & Son. No. 80,711; Jan. 24; Gaz. vol. 162; p. 995.
Starch, Wheat and corn. H. Kohnstamm & Co. No. 82,093; May 30; Gaz. vol. 166; p. 1278.
Stationery, Certain. J. S. Staedtler. No. 81,176; Mar. 7; Gaz. vol. 164; p. 246.
Stationery, Certain. The R. F. Marley Company. No. 81,400; Apr. 4; Gaz. vol. 165; p. 237.
Stationery, Certain. R. Thomsen. No. 83,613; Sept. 26; Gaz. vol. 170; p. 925.
Stationery, Certain articles of. G. Rowney & Co. No. 80,954; Feb. 14; Gaz. vol. 163; p. 479.
Stay-machines. National Metal Edge Box Company. No. 81,020; Feb. 21; Gaz. vol. 163; p. 724.
Steam-boilers. Fried. Krupp, Aktiengesellschaft, Grusonwerk. No. 84,239; Nov. 21; Gaz. vol. 172; p. 818.
Steam-heating and ventilating apparatus. Warren Webster & Company. No. 84,148; Nov. 7; Gaz. vol. 172; p. 257.
Steel bars. International High Speed Steel Company. No. 83,258; Aug. 29; Gaz. vol. 169; p. 1180.
Steel bars, billets, and rods. Vanadium-Alloys Steel Company. No. 81,928; May 16; Gaz. vol. 166; p. 749.
Steel bars, slabs, and billets. The United Steel Company. No. 84,298; Nov. 21; Gaz. vol. 172; p. 819.
Steel, Black and galvanized sheet-. The Deforest Sheet & Tinplate Co. No. 84,215; Nov. 21; Gaz. vol. 172; p. 817.
Steel, High-speed and tool. R. Schmidt & Co. No. 81,750; May 2; Gaz. vol. 166; p. 247.
Steel, High-speed cutting-. Firth-Sterling Steel Company. No. 84,223; Nov. 21; Gaz. vol. 172; p. 817.
Steel in bars, blocks, blooms, &c. A. Milne & Co. No. 82,454; June 27; Gaz. vol. 167; p. 978.
Steel in blocks, bars, rods, sheets, and plates. C. F Boker. No. 82,677; July 18; Gaz. vol. 168; p. 783.
Steel in forged bars and sheets. F. Bischoff. No. 82,403; June 27; Gaz. vol. 167; p. 979.
Steel in unwrought and partly-wrought forms. Cocker Bros. No. 81,326; Mar. 28; Gaz. vol. 164; p. 971.
Steel sheets, Black and galvanized. The Canton Sheet Steel Company. No. 82,757; July 25; Gaz. vol. 168; p. 1027.
Steel, Tool-. Sanderson Brothers & Newbould. No. 81,826; May 9; Gaz. vol. 166; p. 508.
Steel tubing, Seamless. Pittsburgh Steel Products Co. No. 81,294; Mar. 21; Gaz. vol. 164; p. 736.
Steel wire. Pittsburgh Steel Company. No. 83,510; Sept. 19; Gaz. vol. 170; p. 700.
Stencil-cutting machines. The Diagraph Company. No. 84,469; Dec. 19; Gaz. vol. 173; p. 857.
Stencils and perforated paper for tailors' use. Coop and Company. No. 84,168; Nov. 14; Gaz. vol. 172; p. 545.
Stiffening cords, blades, and tapes. The Warren Featherbone Co. No. 83,112; Aug. 15; Gaz. vol. 169; p. 699.
Stilts. L. Wilson. No. 83,034; Aug. 8; Gaz. vol. 169; p. 447.
Stock-dip, lice-killer, fly-repellent, &c. The Hylo Company. No. 82,794; July 25; Gaz. vol. 168; p. 1028.
Stockings. O'Callaghan & Fedden. No. 81,094; Feb. 28; Gaz. vol. 163; p. 974.
Stout. Whitbread & Company. No. 81,421; Apr. 4; Gaz. vol. 165; p. 238.
Stout and beer. J. Kazmaier. No. 81,532; Apr. 18; Gaz. vol. 165; p. 726.
Stoves. Steacy-Schmidt Mfg. Co. No. 82,116; May 30; Gaz. vol. 166; p. 1279.
Stoves and parts thereof, Oil-. Silver & Company. Nos. 84,687–8; Dec. 26; Gaz. vol. 173; p. 1076.
Stoves and ranges. J. G. Emrich. No. 80,995; Feb. 21; Gaz. vol. 163; p. 723.
Stoves and ranges. The Sanitary Stove Mfg. Co. No. 81,549; Apr. 18; Gaz. vol. 165; p. 726.
Stoves and ranges. Eclipse Stove Co. No. 84,614; Dec. 26; Gaz. vol. 173; p. 1074.
Stoves and ranges and furnaces, Cooking. Boynton Furnace Company. No. 80,640; Jan. 17; Gaz. vol. 162; p. 779.
Stoves and ranges, Cooking. Tennessee Stove Works. No. 82,480; June 27; Gaz. vol. 167; p. 979.
Stoves and ranges, Gas. The Trenkamp Stove & Manufacturing Company. No. 82,123; May 30; Gaz. vol. 166; p. 1279.
Stoves, heaters, burners, &c. H. Hertzberg. No. 82,984; Aug. 8; Gaz. vol. 169; p. 446.
Stoves, Heating and cooking. The Baxter Stove Co. No. 81,196; Mar. 14; Gaz. vol. 164; p. 503.
Stoves, lamps, and lanterns and burners for the same. Aktiebolaget Pyro. No. 83,382; Sept. 12; Gaz. vol. 170; p. 477.
Stoves, ranges, and parts therefor, Cooking. King Stove & Range Co. Nos. 80,786–7; Jan. 31; Gaz. vol. 162; p. 1180.

Alphabetical list of trade-marks—Continued.

Stoves, ranges, and warm-air furnaces. Pittston Stove Co. No. 82,911; Aug. 1; Gaz. vol. 169; p. 200.
Strainers, Coffee-. Esperanto Strainer Company. No. 81,970; May 23; Gaz. vol. 166; p. 981.
Strainers, Coffee-. Richheimer & Co. No. 83,181; Aug. 22; Gaz. vol. 169; p. 940.
Strop-dressing preparation. C. R. Uhlmann. No. 83,295; Aug. 29; Gaz. vol. 169; p. 1181.
Studding, Fireproofed. The Gypsinite Co. No. 82,978; Aug. 8; Gaz. vol. 169; p. 446.
Styptic pencils. Julius Schmid, Inc. No. 80,554; Jan. 3; Gaz. vol. 162; p. 266.
171; p. 1254.
Sugar, Corn-. Corn Products Refining Company. No. 82,422; June 27; Gaz. vol. 167; p. 977.
Sugar, Granulated. Federal Sugar Refining Company. No. 80,906; Feb. 14; Gaz. vol. 163; p. 477.
Sugar, olives, vinegar, and salad-dressing. The Galesburg Grocery Company. No. 82,319; June 20; Gaz. vol. 167; p. 758.
Sugar-wafer sticks. The Geo. H. Strietmann's Sons Company. No. 82,841; July 25; Gaz. vol. 168; p. 1030.
Sugar wafers. The Geo. H. Streitmann's Sons Company. No. 81,641; Apr. 25; Gaz. vol. 165; p. 969.
Suits and overcoats. Sheahan, Kohn & Co. No. 80,809; Jan. 31; Gaz. vol. 162; p. 1180.
Suits and overcoats, Men's. M. & W. Naumburg & Co. No. 84,026; Oct. 31; Gaz. vol. 171; p. 1254.
Suits and overcoats, Outer. J. S. Shields & Co. No. 84,538; Dec. 19; Gaz. vol. 173; p. 859.
Suits, coats, vests, and pants, Boys' outer. Merit Manufacturing Company. No. 84,021; Oct. 31; Gaz. vol.
Suits, Ladies' outer. Brody & Funt. No. 82,134; June 6; Gaz. vol. 167; p. 237.
Sulfur preparations. Ichthyol-Gesellschaft Cordes, Hermanni & Co. No. 81,530; Apr. 18; Gaz. vol. 165; p. 726.
Suppositories. G. R. Burgh Chemical Co. No. 82,301; June 20; Gaz. vol. 167; p. 757.
Suppositories. Parmele Pharmacal Company. No. 82,353; June 20; Gaz. vol. 167; p. 759.
Suppositories and stomach-tonic. Zoa-Muca. No. 83,119; Aug. 15; Gaz. vol. 169; p. 699.
Surgical bandages, abdominal supporters, &c. W. J. Teufel. No. 82,924; Aug. 1; Gaz. vol. 169; p. 201.
Suspenders. George M. Edgarton Co. No. 82,218; June 13; Gaz. vol. 167; p. 509.
Suspenders. Nashawannuck Mfg. Co. No. 84,025; Oct. 31; Gaz. vol. 171; p. 1254.
Suspenders, belts, garters, and sleeve-holders. L. Levi. No. 82,524; July 4; Gaz. vol. 168; p. 246.
Suspenders, Men's. M & W Suspender Co. No. 82,526; July 4; Gaz. vol. 168; p. 246.
Suspensories. The Walter F. Ware Company. No. 81,564; Apr. 18; Gaz. vol. 165; p. 727.
Sweaters and knit vests. Morgan Knitting Mills. No. 82,100; May 30; Gaz. vol. 166; p. 1278.
Sweaters and knit vests. Morgan Knitting Mills. No. 82,250; June 13; Gaz. vol. 167; p. 510.
Sweeping compound. W. H. Rohlfing. No. 83,439; Sept. 12; Gaz. vol. 170; p. 478.
Sweeping compounds. The Perolin Co. of America. No. 80,799; Jan. 31; Gaz. vol. 162; p. 1180.
Sweeping compounds. The Van Horne Manufacturing Co. No. 83,452; Sept. 12; Gaz. vol. 170; p. 479.
Syringes for spraying trees and plants. E. A. White, Limited. No. 81,238; Mar. 14; Gaz. vol. 164; p. 504.
Syringes, Urethral. The Walter F. Ware Company. No. 81,371; Mar. 28; Gaz. vol. 164; p. 972.
Syrup and jelly, Compound of corn and refiner's. Corn Products Refining Company. No. 80,630; Jan. 10; Gaz. vol. 162; p. 534.
Syrup and molasses, Compound of corn-. Dunbars, Lopez & Dukate Co. Nos. 80,902–3; Feb. 14; Gaz. vol. 163; p. 477.
Syrup and tonic beverage, Soda-water. Hagan & Dodd Co. No. 84,482; Dec. 19; Gaz. vol. 173; p. 858.
Syrup, Cane-. Garner-Blakely Company. No. 81,067; Feb. 28; Gaz. vol. 163; p. 973.
Syrup, Cane-. Alabama-Georgia Syrup Co. No. 82,129; June 6; Gaz. vol. 167; p. 237.
Syrup, Combination of cane, corn, and sugar. Ehrhart-Conrad Company. No. 80,518; Jan. 3; Gaz. vol. 162; p. 265.
Syrup, Compound. S. J. Valk & Bro. No. 80,688; Jan. 17; Gaz. vol. 162; p. 780.
Syrup, Compound of cane and corn. Dunbars, Lopez & Dukate Co. Nos. 80,900–1; Feb. 14; Gaz. vol. 163; p. 477.
Syrup, Compound of corn and refiners'. Corn Products Refining Company. No. 81,593; Apr. 25; Gaz. vol. 165; p. 967.
Syrup, Compound of corn and refiners'. Corn Products Refining Company. No. 81,858; May 16; Gaz. vol. 166; p. 747.
Syrup, Compound of corn and sugar. Manierre-Yoe Company. No. 81,346; Mar. 28; Gaz. vol. 164; p. 972.
Syrup, Compound of corn and sugar. The Dixie Syrup Company. No. 82,584; July 11; Gaz. vol. 168; p. 520.
Syrup, Compound of corn, molasses, and sorghum. Corn Products Refining Company. No. 81,202; Mar. 14; Gaz. vol. 164; p. 503.
Syrup for making cola beverage. Clapp & Jones. No. 81,199; Mar. 14; Gaz. vol. 164; p. 503.
Syrup for soda-water drinks. J. G. Matthews. No. 84,019; Oct. 31; Gaz. vol. 171; p. 1254.
Syrup, molasses, and sorghum, Compound of. Corn Products Refining Company. No. 82,967; Aug. 8; Gaz. vol. 169; p. 445.
Syrup white pine and tar, Compound. The Union News Company. No. 83,104; Aug. 15; Gaz. vol. 169; p. 699.
Syrup with cane flavor and sorghum, Compound of corn-. Foster, Caldarera & Co. No. 83,240; Aug. 29; Gaz. vol. 169; p. 1180.
Tablets and pads, Writing. Hampton Roads Paper Company. No. 83,833; Oct. 17; Gaz. vol. 171; p. 740.
Tablets, composition-books, and writing-paper, Writing-. Educational Tablet Co. No. 82,311; June 20; Gaz. vol. 167; p. 758.
Tablets, Headache-. D. L. Rectenwald. No. 81,911; May 16; Gaz. vol. 166; p. 749.
Tablets, Indigestion-. Peace Remedy Company. No. 82,355; June 20; Gaz. vol. 167; p. 759.
Tablets, Writing-. McKean, Eilers & Co. No. 82,810; July 25; Gaz. vol. 168; p. 1029.
Tags, Shipping-. Acme Tag & Manufacturing Company. No. 84,156; Nov. 14; Gaz. vol. 172; p. 545.
Talcum powder, face powder and cream, toilet water, and perfume. A. Overton. No. 83,941; Oct. 24; Gaz. vol. 171; p. 980.
Talking-machine cabinets. The United States Phonograph Co. No. 81,488; Apr. 11; Gaz. vol. 165; p. 471.
Talking-machine cabinets. Keen-O-Phone Company. No. 83,920; Oct. 24; Gaz. vol. 171; p. 980.
Talking-machine needles. J. Zimmermann. No. 80,973; Feb. 21; Gaz. vol. 163; p. 723.
Talking-machines. Carl Lindström, Act. Ges. No. 82,448; June 27; Gaz. vol. 167; p. 978.
Talking-machines. Compagnie Generale de Phonographes, Cinematographes et Appareils de Precision. No. 84,363; Dec. 5; Gaz. vol. 173; p. 283.
Talking-machines and parts therefor. Victor Talking Machine Company. No. 84,199; Nov. 14; Gaz. vol. 172; p. 546.
Talking-machines and supplies therefor. Victor Talking Machine Company. No. 84,374; Dec. 5; Gaz. vol. 173; p. 283.
Talking-machines and their parts. Sapphire Record and Talking Machine Co. No. 81,632; Apr. 25; Gaz. vol. 165; p. 969.
Talking-machines, sounding-boxes, &c. Krebs & Klenk. No. 84,238; Nov. 21; Gaz. vol. 172; p. 818.
Tankage. The National Utilization Co. No. 84,509; Dec. 19; Gaz. vol. 173; p. 859.
Tanks, troughs, barrels, &c. Harry Brothers Manufacturing Company. No. 81,460; Apr. 11; Gaz. vol. 165; p. 470.
Tanning, Chemicals used in the preparation of hides for. O. Röhm. No. 82,640; July 11; Gaz. vol. 168; p. 521.
Tea. H. W. De Forest. No. 80,834; Feb. 7; Gaz. vol. 163; p. 227.
Tea. H. C. Fisher. No. 81,513; Apr. 18; Gaz. vol. 165; p. 725.
Tea. Sprague, Warner & Company. No. 81,640; Apr. 25; Gaz. vol. 165; p. 969.
Tea. Sprague, Warner & Company. No. 83,285; Aug. 29; Gaz. vol. 169; p. 1181.
Tea. Dean-Lilly Coffee & Spice Co. No. 84,084; Nov. 7; Gaz. vol. 172; p. 255.
Tea and blended coffee. R. H. Hutchinson. No. 81,278; Mar. 21; Gaz. vol. 164; p. 736.
Tea and blended coffee. De Witt-Roberts Co. No. 82,767; July 25; Gaz. vol. 168; p. 1027.
Tea and coffee. The Cloverdale Company. No. 81,253; Mar. 21; Gaz. vol. 164; p. 735.
Tea and coffee pots, Metallic. F. H. Newman. No. 83,001; Aug. 8; Gaz. vol. 169; p. 446.
Tea and compound of coffee and chicory. American Coffee Company of New Orleans. No. 81,047; Feb. 28; Gaz. vol. 163; p. 973.
Tea, Blend. George M. Dunlap Company. No. 83,038; Aug. 8; Gaz. vol. 169; p. 447.
Tea, Blended. Charles H. Adams Company. No. 82,040; May 30; Gaz. vol. 166; p. 1277.
Tea, Blended. Acker, Merrall & Condit Company. No. 82,282; June 20; Gaz. vol. 167; p. 757.
Tea, chicory, and coffee. T. T. Reboul. No. 84,130; Nov. 7; Gaz. vol. 172; p. 256.
Tea, coffee, and spices. H. H. Hixson. No. 80,596; Jan. 10; Gaz. vol. 162; p. 533.
Tea, flavoring extracts, and spices. Young Bros. No. 81,189; Mar. 7; Gaz. vol. 164; p. 247.
Tea, Japan. W. V. Stock. No. 83,865; Oct. 17; Gaz. vol. 171; p. 741.
Tea, maple-sap syrup, catsup, vinegar, &c. Twohy-Eimon Mercantile Company. No. 81,037; Feb. 21; Gaz. vol. 163; p. 725.
Teas. J. Strong & Company. No. 80,814; Jan. 31; Gaz. vol. 162; p. 1181.
Teas. The Great Atlantic and Pacific Tea Company. No. 80,913; Feb. 14; Gaz. vol. 163; p. 477.
Teas. W. McMurray. No. 81,017; Feb. 21; Gaz. vol. 163; p. 724.

Alphabetical list of trade-marks—Continued.

Teas. Brooke Bond & Company. No. 83,984; Oct. 31; Gaz. vol. 171; p. 1253.
Teas, Blended. William S. Scull Company. No. 82,537; July 4; Gaz. vol. 168; p. 246.
Telegraphic and telephonic apparatus. A. F. Collins. No. 80,708; Jan. 24; Gaz. vol. 162; p. 995.
Telegraphic apparatus, Electric. H. G. Martin. No. 84,356; Nov. 28; Gaz. vol. 172; p. 1086.
Telephonic apparatus. National Dictograph Co. No. 81,735; May 2; Gaz. vol. 166; p. 247.
Telescopes. Emil Busch, Aktiengesellschaft Optische Industrie. No. 84,591; Dec. 26; Gaz. vol. 173; p. 1073.
Temperatures, Certain chemical mixtures for determining. Königliche Porzellan-Manufactur-Direction. No. 84,643; Dec. 26; Gaz. vol. 173; p. 1075.
Tenting cloth, canvas, and cotton piece goods. Zittlosen Manufacturing Co. No. 82,548; July 4; Gaz. vol. 168; p. 246.
Tents and awnings. B. De Young. No. 81,132; Mar. 7; Gaz. vol. 164; p. 245.
Tents, awnings, tarpaulins, and canopies. J. A. Wehrkamp. No. 83,457; Sept. 12; Gaz. vol. 170; p. 479.
Tents, awnings, tarpaulins, canopies. J. A. Wehrkamp. No. 83,955; Oct. 24; Gaz. vol. 171; p. 981.
Tents, tarpaulins, canopies, and awnings. Zittlosen Manufacturing Co. No. 84,203; Nov. 14; Gaz. vol. 172; p. 546.
Textile fabrics, Certain. The Old Bleach Linen Company. No. 82,714; July 18; Gaz. vol. 168; p. 784.
Textile fabrics, Certain. William R. Moore Dry Goods Company. No. 83,343; Sept. 5; Gaz. vol. 170; p. 240.
Textiles, Certain. G. Willis & Co. No. 82,433; June 27; Gaz. vol. 167; p. 978.
Textiles, Certain. A. O. Meyer. Nos. 84,330–1; Nov. 28; Gaz. vol. 172; p. 1086.
Therapeutic instruments. J. A. Minturn. No. 81,159; Mar. 7; Gaz. vol. 164; p. 246.
Thermometers. Standard Thermometer Co. No. 84,544; Dec. 19; Gaz. vol. 173; p. 860.
Thermometers, barometers, and hydrometers. A. E. Moeller. No. 84,249; Nov. 21; Gaz. vol. 172; p. 818.
Thread in balls, Sewing cotton. R. F. & J. Alexander & Co. No. 84,445; Dec. 19; Gaz. vol. 173; p. 857.
Thread, Linen. The Barbour Bros. Co. No. 80,824; Feb. 7; Gaz. vol. 163; p. 227.
Thread, Silk. Fabrique de Soie Artificielle d'Obourg (Société Anonyme). No. 83,400; Sept. 12; Gaz. vol. 170; p. 477.
Threads, Linen. West End Thread Co. No. 84,065; Oct. 31; Gaz. vol. 171; p. 1255.
Threads, Silk, cotton, mercerized, and machine sewing-. Gudebrod Bros. Co. No. 80,915; Feb. 14; Gaz. vol. 163; p. 477.
Threshers and hullers, Pea and bean. J. M. Brasington. No. 80,889; Feb. 14; Gaz. vol. 163; p. 477.
Tiering-machines, Portable. New York Revolving Portable Elevator Co. No. 84,669; Dec. 26; Gaz. vol. 173; p. 1076.
Tile, Concrete roofing-. W. Laban. No. 81,012; Feb. 21; Gaz. vol. 163; p. 724.
Tiles and bricks. Concrete Products Company. No. 82,966; Aug. 8; Gaz. vol. 169; p. 445.
Tiles, Fire-. E. Pfleiderer. No. 80,942; Feb. 14; Gaz. vol. 163; p. 478.
Tiles, Floor and wall. Rochester Sewer Pipe Company. No. 81,483; Apr. 11; Gaz. vol. 165; p. 470.
Tiling, Floor-. A. W. Nilsson. No. 80,938; Feb. 14; Gaz. vol. 163; p. 478.
Timber, logs, and lumber. Hugh McLean Lumber Company. No. 82,997; Aug. 8; Gaz. vol. 169; p. 446.
Timber, logs, and lumber. Hugh McLean Lumber Company. No. 83,424; Sept. 12; Gaz. vol. 170; p. 478.
Timber, logs, and lumber, Sawed and hewed. S. J. Sutherland Company. No. 80,960; Feb. 14; Gaz. vol. 163; p. 479.
Tin. Th. Goldschmidt. No. 80,522; Jan. 3; Gaz. vol. 162; p. 265.
Tin-plate. Merchant & Evans Company. No. 80,631; Jan. 10; Gaz. vol. 162; p. 534.
Tin-plate, sheet-iron, and metals. C. H. Nelson Metal Co. No. 83,084; Aug. 15; Gaz. vol. 169; p. 698.
Tin, terne, zinc, and black plates. The Redbrook Tinplate Co. No. 81,548; Apr. 18; Gaz. vol. 165; p. 726.
Tire-cases. Merchant & Evans Co. No. 83,425; Sept. 12; Gaz. vol. 170; p. 478.
Tire-pumps and lifting-jacks, Automobile. The Eagle Manufacturing Company. No. 81,059; Feb. 28; Gaz. vol. 163; p. 973.
Tire-sleeves. Colonial Leather Company. No. 84,598; Dec. 26; Gaz. vol. 173; p. 1074.
Tire treads and protectors, Rubber and pneumatic-. O. Nauen. No. 82,710; July 18; Gaz. vol. 168; p. 784.
Tires, Pneumatic. The Fisk Rubber Company. No. 82,145; June 6; Gaz. vol. 167; p. 237.
Tires, Rubber automobile-. E. C. Griffith. No. 83,734; Oct. 10; Gaz. vol. 171; p. 477.
Tires, Rubber vehicle-. The Hartford Rubber Works Co. No. 81,269; Mar. 21; Gaz. vol. 164; p. 735.
Tobacco. R. Harris & Bro. No. 81,144; Mar. 7; Gaz. vol. 164; p. 245.
Tobacco. Maclin-Zimmer Tobacco Co. No. 84,184; Nov. 14; Gaz. vol. 172; p. 546.
Tobacco and cigarettes, Smoking-. G. Phillips & Sons. No. 80,800; Jan. 31; Gaz. vol. 162; p. 1180.
Tobacco, Chewing and smoking. Bendixen Tobacco Co. No. 82,400; June 27; Gaz. vol. 167; p. 977.
Tobacco, cigarettes, and cigars, Smoking and chewing. Adolph Frankau & Co. No. 83,402; Sept. 12; Gaz. vol. 170; p. 477.
Tobacco, cigars, and cigarettes. V. M. Gowdy. No. 83,576; Sept. 26; Gaz. vol. 170; p. 924.
Tobacco, cigars, cigarettes, and snuff. R. J. Reynolds Tobacco Company. No. 82,471; June 27; Gaz. vol. 167; p. 979.
Tobacco, cigars, cigarettes, and snuff. Carreras Limited. No. 83,391; Sept. 12; Gaz. vol. 170; p. 477.
Tobacco, Leaf-. Dart Tobacco Company. No. 82,500; July 4; Gaz. vol. 168; p. 245.
Tobacco, Leaf-. The Connecticut Sumatra Tobacco Company. No. 83,638; Oct. 3; Gaz. vol. 171; p. 209.
Tobacco-pipes. Hall & Lyon Co. No. 81,703; May 2; Gaz. vol. 166; p. 246.
Tobacco-pipes. The Meerschaum Co. of America. Nos. 81,895–6; May 16; Gaz. vol. 166; p. 748.
Tobacco-pipes. The Meerschaum Co. of America. No. 82,451; June 27; Gaz. vol. 167; p. 978.
Tobacco-pipes. R. J. Reynolds Tobacco Company. No. 82,470; June 27; Gaz. vol. 167; p. 979.
Tobacco-pipes, cigar and cigarette holders. The Imperial Tobacco Company (of Great Britain and Ireland). No. 81,531; Apr. 18; Gaz. vol. 165; p. 726.
Tobacco-pipes, cigar and cigarette holders. The Imperial Tobacco Company (of Great Britain and Ireland). No. 82,443; June 27; Gaz. vol. 167; p. 978.
Tobacco, Plug-. T. C. Williams Company. No. 80,965; Feb. 14; Gaz. vol. 163; p. 479.
Tobacco, Smoking-. R. J. Reynolds Tobacco Company. No. 84,044; Oct. 31; Gaz. vol. 171; p. 1255.
Tobacco, Smoking and chewing. Moore & Calvi. No. 80,670; Jan. 17; Gaz. vol. 162; p. 780.
Toffee. John Mackintosh, Limited. No. 82,703; July 18; Gaz. vol. 168; p. 784.
Toilet and certain medicinal preparations. J. J. Krom. No. 82,155; June 6; Gaz. vol. 167; p. 237.
Toilet articles, Certain. E. R. Siering. No. 81,751; May 2; Gaz. vol. 166; p. 247.
Toilet preparation for use on the hair. Eleto Company. No. 81,385; Apr. 4; Gaz. vol. 165; p. 237.
Toilet preparations and an internal remedy for the complexion. Frederick F. Ingram & Co. No. 81,611; Apr. 25; Gaz. vol. 165; p. 968.
Toilet preparations, antiseptic powder, and a deodorant. P. F. O'Keefe. No. 83,940; Oct. 24; Gaz. vol. 171; p. 980.
Toilet preparations, Certain. Maude Odell Company. No. 80,543; Jan. 3; Gaz. vol. 162; p. 266.
Toilet preparations, Certain. Bruguier Chemical Company. No. 81,583; Apr. 25; Gaz. vol. 165; p. 967.
Toilet preparations, Certain. N. E. Goldberg. No. 81,870; May 16; Gaz. vol. 166; p. 747.
Toilet preparations, Certain. Hedden & Eberhardt. No. 81,992; May 23; Gaz. vol. 166; p. 982.
Toilet preparations, Certain. Richard Hudnut. No. 82,889; Aug. 1; Gaz. vol. 169; p. 200.
Toilet preparations, Certain. Boracol Chemical Co. No. 83,553; Sept. 26; Gaz. vol. 170; p. 923.
Toilet preparations, Certain. Maude Odell Company. No. 84,125; Nov. 7; Gaz. vol. 172; p. 256.
Toilet preparations, Certain. A. F. Wood. No. 84,152; Nov. 7; Gaz. vol. 172; p. 257.
Toilet preparations, Certain. First American Perfumery "Oja" G. m. b. H. No. 84,477; Dec. 19; Gaz. vol. 173; p. 858.
Toilet preparations, Certain. Richard Hudnut. No. 84,487; Dec. 19; Gaz. vol. 173; p. 858.
Toilet preparations, Certain. Recreo Chemical Company. No. 84,524; Dec. 19; Gaz. vol. 173; p. 859.
Toilet preparations, Certain. C. H. Stuart Co. No. 84,548; Dec. 19; Gaz. vol. 173; p. 860.
Toilet preparations, medicines, and insecticides, Certain. Daniel Stewart Co. No. 82,652; July 11; Gaz. vol. 168; p. 522.
Toilet wash for the complexion. F. A. Jones. No. 81,080; Feb. 28; Gaz. vol. 163; p. 974.
Toilet water. Mülhens & Kropff. No. 81,161; Mar. 7; Gaz. vol. 164; p. 246.
Toilet water. The Koken Barbers' Supply Company. No. 84,322; Nov. 28; Gaz. vol. 172; p. 1085.
Tomato extract. Società Generale Delle Conserve Alimentari Cirio. No. 84,049; Oct. 31; Gaz. vol. 171; p. 1255.
Tomato paste. A. Cusimano & Co. No. 81,129; Mar. 7; Gaz. vol. 164; p. 245.
Tomato paste. A. Cusimano & Co. No. 82,213; June 13; Gaz. vol. 167; p. 509.
Tonic. R. H. Noble. No. 84,123; Nov. 7; Gaz. vol. 172; p. 256.
Tonic. R. R. Palmer. No. 84,336; Nov. 28; Gaz. vol. 172; p. 1086.

Alphabetical list of trade-marks—Continued.

Tonic and antiseptic, Laxative, purgative, intestinal. C. P. Gieraltowski. No. 82,784; July 25; Gaz. vol. 168; p. 1028.
Tonic and remedy for certain diseases, Alterative. J. W. Cole & Co. No. 84,380; Dec. 12; Gaz. vol. 173; p. 579.
Tonic and tonic for the nerves, General. C. I. Hood Co. No. 83,649; Oct. 3; Gaz. vol. 171; p. 209.
Tonic beverage. Jersey-Creme Co. No. 82,444; June 27; Gaz. vol. 167; p. 978.
Tonic beverage. L. W. Winkless, Jr. No. 83,532; Sept. 19; Gaz. vol. 170; p. 701.
Tonic beverage and syrup for making the same. Sutton-Cummins Co. No. 81,178; Mar. 7; Gaz. vol. 164; p. 246.
Tonic beverages. A. W. Green. No. 82,598; July 11; Gaz. vol. 168; p. 520.
Tonic, Digestive. The Wintersmith Medicine Co. No. 83,879; Oct. 17; Gaz. vol. 171; p. 741.
Tonic for certain diseases. E. D. Feldman. No. 83,825; Oct. 17; Gaz. vol. 171; p. 739.
Tonic for certain diseases caused by impure blood. R. G. Williams. No. 83,957; Oct. 24; Gaz. vol. 171; p. 981.
Tonic for the blood and nerves. A. L. Davis. No. 82,578; July 11; Gaz. vol. 168; p. 520.
Tonic for the blood, nerves, and stomach. W. J. Stewart. No. 82,840; July 25; Gaz. vol. 168; p. 1030.
Tonic, Horse and cattle. M. K. Shaub. No. 82,368; June 20; Gaz. vol. 167; p. 759.
Tonic liqueur. B. Pernetti Co. No. 84,128; Nov. 7; Gaz. vol. 172; p. 256.
Tonic medicine and blood-purifier. C. F. Simmons Medicine Company. No. 84,415; Dec. 12; Gaz. vol. 173; p. 580.
Tonic or remedy for chills and fever, colds, and grippe. Cotton Belt Drug Co. No. 82,055; May 30; Gaz. vol. 166; p. 1277.
Tonic, Poultry-. Wayne Poultry Tonic Co. No. 82,388; June 20; Gaz. vol. 167; p. 760.
Tonics, Sarsaparilla, celery, and ginger. R. H. Noble. No. 82,628; July 11; Gaz. vol. 168; p. 521.
Tools and machinery, Certain. Celfor Tool Company. No. 82,206; June 13; Gaz. vol. 167; p. 509.
Tools, Certain. Norvell-Shapleigh Hardware Company. No. 82,015; May 23; Gaz. vol. 166; p. 983.
Tools for inserting hollow rollers and sleeves in openings in flexible material. U. S. Hame Company. No. 84,698; Dec. 26; Gaz. vol. 173; p. 1077.
Tools, Hand-. Braunsdorf-Mueller Company. No. 41,499; Apr. 18; Gaz. vol. 165; p. 725.
Tools, scissors, and machinery knives. Maatschappij tot Voortzetting der Zaken van der Linde & Teves. No. 82,244; June 13; Gaz. vol. 167; p. 510.
Tooth-paste. Us-Mer-Ja Chemical Co. No. 82,383; June 20; Gaz. vol. 167; p. 760.
Tooth paste and wash. Anti-Pyorrhea Chemical Company. No. 83,805; Oct. 17; Gaz. vol. 171; p. 739.
Tooth paste, powder, &c. Incorporated Dentists. No. 82,892; Aug. 1; Gaz. vol. 169; p. 200.
Tooth preparations. G. G. Rambaud. No. 84,679; Dec. 26; Gaz. vol. 173; p. 1076.
Toothpicks. Forster Manufacturing Company. No. 83,401; Sept. 12; Gaz. vol. 170; p. 477.
Toys. E. C. Teuscher. No. 83,025; Aug. 8; Gaz. vol. 169; p. 447.
Toys. Nonbreakable Toy Co. No. 84,670; Dec. 26; Gaz. vol. 173; p. 1076.
Toys. W. Stock. No. 84,695; Dec. 26; Gaz. vol. 173; p. 1077.
Toys, Mechanical. Meccano Limited. No. 81,840; May 9; Gaz. vol. 166; p. 509.
Toys, Mechanical. Meccano Limited. No. 83,171; Aug. 22; Gaz. vol. 169; p. 940.
Toys, Net receptacle for Easter. H. Weddle. No. 83,953; Oct. 24; Gaz. vol. 171; p. 981.
Toys, Package containing certain. Taylor & Winchester. No. 81,311; Mar. 21; Gaz. vol. 164; p. 737.
Toys, Wooden. Dux Toy Company. No. 81,257; Mar. 21; Gaz. vol. 164; p. 735.
Toys, Wooden. C. L. Pratt. No. 84,409; Dec. 12; Gaz. vol. 173; p. 580.
Tracing-cloth. Ritchie & Eason. No. 81,029; Feb. 21; Gaz. vol. 163; p. 724.
Traps, Mouse and rat. C. Bender I. No. 82,562; July 11; Gaz. vol. 168; p. 519.
Trays, Base-metal. Aluminum Goods Mfg. Co. No. 81,659; May 2; Gaz. vol. 166; p. 245.
Trees from borers, Preparation to protect fruit-. W. H. Spangler. No. 84,691; Dec. 26; Gaz. vol. 173; p. 1076.
Trousers. S. Weber & Company. No. 80,963; Feb. 14; Gaz. vol. 163; p. 479.
Trousers. Bennett, Hollander & Lewis. No. 81,197; Mar. 14; Gaz. vol. 164; p. 503.
Trousers. Sweet, Orr & Co. No. 81,833; May 9; Gaz. vol. 166; p. 508.
Trunks. H. Davis. No. 81,683; May 2; Gaz. vol. 166; p. 245.
Trunks, Automobile-. I. S. Kallis. No. 84,181; Nov. 14; Gaz. vol. 172; p. 545.
Trunks, traveling-bags, and suit-cases. L. Goldsmith & Son. No. 80,845; Feb. 7; Gaz. vol. 163; p. 227.
Tubing, Flexible metallic. Pennsylvania Flexible Metallic Tubing Company. No. 80,870; Feb. 7; Gaz. vol. 163; p. 228.
Tulles. Gros, Million & Cie. No. 81,073; Feb. 28; Gaz. vol. 163; p. 973.
Turpentine, Material similar to. Sun Oil Company. No. 83,525; Sept. 19; Gaz. vol. 170; p. 700.
Turpentine, Mineral. Waverly Oil Works Co. No. 84,063; Oct. 31; Gaz. vol. 171; p. 1255.
Turpentine substitute. The Texas Company. No. 80,961; Feb. 14; Gaz. vol. 163; p. 479.
Twine. The Putnam-Hooker Company. No. 83,942; Oct. 24; Gaz. vol. 171; p. 980.
Twine and cord. The Wm. J. Hooper Mfg. Co. No. 81,462; Apr. 11; Gaz. vol. 165; p. 470.
Twine, cords, and ropes. A. O. Meyer. No. 82,344; June 20; Gaz. vol. 167; p. 759.
Twines, Seine-. Lees Manufacturing Co. No. 84,645; Dec. 26; Gaz. vol. 173; p. 1075.
Type-writers. Fox Typewriter Co. No. 80,996; Feb. 21; Gaz. vol. 163; p. 724.
Type-writing machines. The Noiseless Typewriter Company. No. 81,024; Feb. 21; Gaz. vol. 163; p. 724.
Type-writing machines. The Noiseless Typewriter Company. No. 81,543; Apr. 18; Gaz. vol. 165; p. 726.
Type-writing machines. The Columbia Type Writer Manufacturing Company. No. 83,637; Oct. 3; Gaz. vol. 171; p. 209.
Umbrella-covers. O. Müller & Co. No. 80,933; Feb. 14; Gaz. vol. 163; p. 478.
Umbrella frames, ribs, and trimmings. Fretz, Gross & Co. No. 84,616; Dec. 26; Gaz. vol. 173; p. 1074.
Umbrellas and parasols. I. H. Weinberg. No. 81,650; Apr. 25; Gaz. vol. 165; p. 969.
Underclothing, Woolen. Fleming, Reid & Co. No. 82,146; June 6; Gaz. vol. 167; p. 237.
Underdrawers and undershirts, Men's textile. West Branch Knitting Co. No. 83,956; Oct. 24; Gaz. vol. 171; p. 981.
Undershirts and drawers. Oppenheim, Oberndorf & Co. No. 84,516; Dec. 19; Gaz. vol. 173; p. 859.
Underskirts. H. K. Deisher. No. 83,327; Sept. 5; Gaz. vol. 170; p. 239.
Underskirts and petticoats, Ladies'. M. M. Dryfoos. No. 83,994; Oct. 31; Gaz. vol. 171; p. 1253.
Underwear and bathing-suits, Textile. G. A. Ford. No. 83,972; Oct. 24; Gaz. vol. 171; p. 981.
Underwear and hosiery. B. Altman & Co. No. 83,202; Aug. 29; Gaz. vol. 169; p. 1179.
Underwear, Certain. High Rock Knitting Co. No. 83,909; Oct. 24; Gaz. vol. 171; p. 979.
Underwear, Woven. Whitestoke Underwear Company. No. 83,377; Sept. 5; Gaz. vol. 170; p. 241.
Uric-acid solvent and urinary antiseptic. The Marcy Company. No. 80,931; Feb. 14; Gaz. vol. 163; p. 478.
Valves. The Lunkenheimer Company. No. 83,661; Oct. 3; Gaz. vol. 171; p. 210.
Valves. The Lunkenheimer Company. No. 83,753; Oct. 10; Gaz. vol. 171; p. 478.
Valves. Cleveland Steel Tool Company. No. 84,463; Dec. 19; Gaz. vol. 173; p. 857.
Valves and parts thereof. The Ohio Injector Company. No. 81,903; May 16; Gaz. vol. 166; p. 748.
Valves, Certain. Kieley and Mueller. No. 84,631; Dec. 26; Gaz. vol. 173; p. 1075.
Valves, Flush-. A. N. Pasman. No. 81,905; May 16; Gaz. vol. 166; p. 748.
Valves, Gas-. Eureka Water Heater Co. No. 84,222; Nov. 21; Gaz. vol. 172; p. 817.
Valves, Gate-. The Lunkenheimer Company. No. 83,752; Oct. 10; Gaz. vol. 171; p. 478.
Valves, Pop safety-. The Lunkenheimer Company. No. 83,751; Oct. 10; Gaz. vol. 171; p. 478.
Valves, regulators, traps, &c. Klipfel Manufacturing Company. No. 80,722; Jan. 24; Gaz. vol. 162; p. 996.
Varnish. Flood & Conklin Co. No. 81,448; Apr. 11; Gaz. vol 165; p. 469.
Varnish. The Hockaday Paint Company. No. 83,647; Oct. 3; Gaz. vol. 171; p. 209.
Varnish and floor-finish. Westcott, Slade & Balcom Company. No. 83,796; Oct. 10; Gaz. vol. 171; p. 479.
Varnish-stain. The Eberson Paint Co. No. 80,517; Jan. 3; Gaz. vol. 162; p. 265.
Varnish, varnish-stain, and paint. The Hockaday Paint Company. No. 83,648; Oct. 3; Gaz. vol. 171; p. 209.
Varnishes. Flood & Conklin Co. No. 81,064; Feb. 28; Gaz. vol. 163; p. 973.
Varnishes and mixed paint. David Bernhardt Paint Company. No. 82,200; June 13; Gaz. vol. 167; p. 509.
Varnishes and oil-finishes, Interior and exterior. E. E. Nice. No. 83,506; Sept. 19; Gaz. vol. 170; p. 700.
Varnishes and varnish-gums. Empire Shellac Company. No. 84,087; Nov. 7; Gaz. vol. 172; p. 255.
Vehicle parts. E. M. Bowden's Patents Syndicate. No. 83,215; Aug. 29; Gaz. vol. 169; p. 1179.
Vehicle-runners. T. Schou. No. 81,917; May 16; Gaz. vol. 166; p. 749.
Vehicle-springs, Auxiliary. J. W. Blackledge. No. 80,888; Feb. 14; Gaz. vol. 163; p. 477.

Alphabetical list of trade-marks—Continued.

Vehicle-tops, Cloth for. G. H. Quennard. No. 83,437; Sept. 12; Gaz. vol. 170; p. 478.
Vehicle tow-lines. Broderick & Bascom Rope Company. No. 82,133; June 6; Gaz. vol. 167; p. 237.
Vehicle-wheels. J. McCulloch. No. 84,369; Dec. 5; Gaz. vol. 173; p. 283.
Vehicles and repair parts of same. Schweinfurter Präcisions-Kugel-Lager-Werke Fichtel & Sachs. No. 81,550; Apr. 18; Gaz. vol. 165; p. 726.
Vehicles, Certain. Parry Manufacturing Company. No. 80,678; Jan. 17; Gaz. vol. 162; p. 780.
Vehicles, motor trucks and boats, Road and motor. Mitchell-Lewis Motor Co. No. 82,010; May 23; Gaz. vol. 166; p. 983.
Veilings and nettings. T. Tiedemann & Sons. No. 83,614; Sept. 26; Gaz. vol. 170; p. 925.
Veilings, nettings, and malines. Hydeman and Lassner. No. 80,530; Jan. 3; Gaz. vol. 162; p. 265.
Velvets. J. Einstein. No. 82,312; June 20; Gaz. vol. 167; p. 758.
Velvets and plushes. The Salt's Textile Manufacturing Company. No. 80,549; Jan. 3; Gaz. vol. 162; p. 266.
Ventilating apparatus. Autoforce Ventilating System. No. 83,383; Sept. 12; Gaz. vol. 170; p. 477.
Ventilators. G. E. Fenn. No. 83,061; Aug. 15; Gaz. vol. 169; p. 697.
Ventilators, Wind-operated. Gold Car and Lighting Company. No. 83,403; Sept. 12; Gaz. vol. 170; p. 477.
Vermin and insect exterminators. Keyes & Davis. No. 82,154; June 6; Gaz. vol. 167; p. 237.
Vessels having double walls. L. Haege. No. 83,331; Sept. 5; Gaz. vol. 170; p. 239.
Vests, Outer. Steefel, Strauss & Connor. No. 81,755; May 2; Gaz. vol. 166; p. 247.
Veterinary medicine. Jacob Strohauer & Sons' Co. No. 82,376; June 20; Gaz. vol. 167; p. 759.
Violins, violas, and violoncellos. Aktien-Gesellschaft für Geigenindustrie. No. 83,535; Sept. 26; Gaz. vol. 170; p. 923.
Vises. Prentiss Vise Company. No. 81,100; Feb. 28; Gaz. vol. 163; p. 974.
Voiles. T. A. Harris. No. 81,704; May 2; Gaz. vol. 166; p. 246.
Waffles, biscuits, cookies, and cakes. Van Doesburg Brothers. No. 81,760; May 2; Gaz. vol. 166; p. 248.
Wagons. The Miller, Du Brul & Peters Mfg. Co. No. 83,930; Oct. 24; Gaz. vol. 171; p. 980.
Waists. Greenebaum Brothers. No. 83,151; Aug. 22; Gaz. vol. 169; p. 940.
Waists and sanitary aprons, Ruffle. Mlle. Wolfe Co. No. 82,127; May 30; Gaz. vol. 166; p. 1279.
Waists, shoulder-braces, belts, &c. Gotham Garter & Novelty Company. No. 84,480; Dec. 19; Gaz. vol. 173; p. 858.
Waists, shoulder-braces, hose-supporters, and garters, Skeleton. Gotham Garter & Novelty Company. No. 84,177; Nov. 14; Gaz. vol. 172; p. 545.
Wall and ceiling finish. The Dean & Barry Company. No. 82,581; July 11; Gaz. vol. 168; p. 520.
Wall-board. Plastergon Wall Board Co. No. 84,522; Dec. 19; Gaz. vol. 173; p. 859.
Wall-board and building-paper. The Beaver Company. No. 80,569; Jan. 10; Gaz. vol. 162; p. 533.
Walls and ceilings, Compound for cleaning. W. J. Lloyd. No. 84,113; Nov. 7; Gaz. vol. 172; p. 256.
Washers for cocks, faucets, and spigots. Woodward and Wanger. No. 81,117; Feb. 28; Gaz. vol. 163; p. 975.
Washing compound. L. B. Hartzell. No. 81,214; Mar. 14; Gaz. vol. 164; p. 503.
Washing compound. Hitchcock-Hill Company. No. 81,392; Apr. 4; Gaz. vol. 165; p. 237.
Washing compound. Elwako Manufacturing Company. No. 83,397; Sept. 12; Gaz. vol. 170; p. 477.
Washing compounds. A. P. Brooks. No. 82,495; July 4; Gaz. vol. 168; p. 245.
Washing-machines, Laundry. A. D. Howe Machine Company. No. 81,712; May 2; Gaz. vol. 166; p. 246.
Washing-machines, Laundry. De Vasher Manufacturing and Supply Company. No. 81,790; May 9; Gaz. vol. 166; p. 507.
Washing-machines, Laundry. Horton Manufacturing Company. No. 83,253; Aug. 29; Gaz. vol. 169; p. 1180.
Washing-machines, sad-irons, washboards, &c. Roberts, Sanford & Taylor Co. No. 81,913; May 16; Gaz. vol. 166; p. 749.
Washing-powder. Fischbeck Soap Company. No. 84,478; Dec. 19; Gaz. vol. 173; p. 858.
Washing preparation, Detergent. E. H. Gollings. No. 82,074; May 30; Gaz. vol. 166; p. 1278.
Washtubs. Wheeling Corrugating Company. No. 83,299; Aug. 29; Gaz. vol. 169; p. 1181.
Watch cases and movements. Illinois Watch Case Co. Nos. 82,235–6; June 13; Gaz. vol. 167; p. 510.
Watch cases and movements. Illinois Watch Case Co. Nos. 82,890–1; Aug. 1; Gaz. vol. 169; p. 200.
Watch cases and movements. Illinois Watch Case Co. Nos. 83,255–6; Aug. 29; Gaz. vol. 169; p. 1180.
Watch cases and movements. Illinois Watch Case Co. No. 83,582; Sept. 26; Gaz. vol. 170; p. 924.
Watch-mainsprings. Elgin National Watch Company. No. 82,140; June 6; Gaz. vol. 167; p. 237.
Watch-movements. Elgin National Watch Company. Nos. 82,060–1; May 30; Gaz. vol. 166; p. 1277.
Watch-movements. Elgin National Watch Company. No. 82,141; June 6; Gaz. vol. 167; p. 237.
Watch-movements. Elgin National Watch Company. No. 82,505; July 4; Gaz. vol. 168; p. 245.
Watch-movements. Elgin National Watch Company. No. 82,686; July 18; Gaz. vol. 168; p. 783.
Watch-movements. Elgin National Watch Company. No. 82,972; Aug. 8; Gaz. vol. 169; p. 445.
Watch-movements. Waltham Watch Company. No. 84,200; Nov. 14; Gaz. vol. 172; p. 546.
Watch movements and cases and parts thereof. United Watch Manufacturers Corporation. No. 82,931; Aug. 1; Gaz. vol. 169; p. 201.
Watch-movements, watches, and parts thereof. Waltham Watch Company. No. 83,873; Oct. 17; Gaz. vol. 171; p. 741.
Watches. M. W. Savage. No. 81,633; Apr. 25; Gaz. vol. 165; p. 969.
Watches. M. W. Savage. No. 82,024; May 23; Gaz. vol 166; p. 983.
Watches. Elliott Jewelry Company. No. 84,173; Nov. 14; Gaz. vol. 172; p. 545.
Watches, watch cases and movements. The Keystone Watch Case Company. No. 81,081; Feb. 28; Gaz. vol. 163; p. 974.
Watches, watch cases and movements. Philadelphia Watch Case Co. No. 81,625; Apr. 25; Gaz. vol. 165; p. 968.
Watches, watch cases and movements, and parts thereof. The Keystone Watch Case Company. No. 82,993; Aug. 8; Gaz. vol. 169; p. 446.
Watches, watch cases and movements. The Keystone Watch Case Co. No. 84,494; Dec. 19; Gaz. vol. 173; p. 858.
Watches, watchcases, watch-movements, and parts thereof. Waltham Watch Company. No. 82,124; May 30; Gaz. vol. 166; p. 1279.
Watches, watch movements and cases, and parts thereof. The Keystone Watch Case Company. No. 81,884; May 16; Gaz. vol. 166; p. 748.
Watches, watch-movements, and parts. Waltham Watch Company. No. 83,952; Oct. 24; Gaz. vol. 171; p. 981.
Watches, watch-movements, and parts thereof. Waltham Watch Company. No. 82,185; June 6; Gaz. vol. 167; p. 238.
Watchcases. Star Watch Case Co. No. 83,609; Sept. 26; Gaz. vol. 170; p. 925.
Watchcases. Star Watch Case Co. No. 84,196; Nov. 14; Gaz. vol. 172; p. 546.
Water and carbonated beverages, Spring-. Granite State Spring Water Co. No. 84,092; Nov. 7; Gaz. vol. 172; p. 255.
Water-bags. W. A. Plummer. No. 81,229; Mar. 14; Gaz. vol. 164; p. 504.
Water-bags. The Whitaker Manufacturing Company. No. 82,544; July 4; Gaz. vol. 168; p. 246.
Water-closet flushing-tanks and hinged seats. Knott-Van Arnam Manufacturing Co. No. 81,082; Feb. 28; Gaz. vol. 163; p. 974.
Water-closet seats. Knott-Van Arnam Manufacturing Co. No. 81,885; May 16; Gaz. vol. 166; p. 748.
Water-closets. Columbus Brass Company. No. 83,144; Aug. 22; Gaz. vol. 169; p. 939.
Water for the bath, Preparations for softening and perfuming. A. H. Myers. No. 81,900; May 16; Gaz. vol. 166; p. 748.
Water-gages. The Lunkenheimer Company. No. 83,502; Sept. 19; Gaz. vol. 170; p. 700.
Water-heaters, Gas. M. Goldfein. No. 83,404; Sept. 12; Gaz. vol. 170; p. 477.
Water-heaters, Gas. M. Goldfein. No. 83,574; Sept. 26; Gaz. vol. 170; p. 924.
Water-motors. The Buckeye Pump & Manufacturing Company. No. 82,571; July 11; Gaz. vol. 168; p. 519.
Water, Natural mineral. Tansan Importing Company. No. 81,925; May 16; Gaz. vol. 166; p. 749.
Water, Natural mineral. Bokert Springs Mineral Water Company. No. 82,044; May 30; Gaz. vol. 166; p. 1277.
Water, Natural mineral. Victoria Springs Co. No. 83,298; Aug. 29; Gaz. vol. 169; p. 1181.
Water, Natural mineral-spring. Carter Springs Co. No. 83,815; Oct. 17; Gaz. vol. 171; p. 739.
Water, Natural spring-. J. W. Barkdull. No. 81,379; Apr. 4; Gaz. vol. 165; p. 237.
Water, Natural spring-. Holly Lithia Springs Co. No. 83,491; Sept. 19; Gaz. vol. 170; p. 699.
Water, Natural spring drinking-. National Water Company. No. 84,658; Dec. 26; Gaz. vol. 173; p. 1075.
Waters, Mineral, spring, and aerated. T. C. Esposito. No. 83,058; Aug. 15; Gaz. vol. 169; p. 697.
Waters, Spring and carbonated. R. H. Emmet. Nos. 82,774–5; July 25; Gaz. vol. 168; p. 1028.
Waterproof fabric. H. H. Sheparo. No. 83,187; Aug. 22; Gaz. vol. 169; p. 941.
Waterproof fabrics. The Pantasote Leather Company. No. 83,853; Oct. 17; Gaz. vol. 171; p. 740.
Waterproof tulle nets and chiffon. L. & E. Stirn. No. 83,289; Aug. 29; Gaz. vol. 169; p. 1181.

Alphabetical list of trade-marks—Continued.

Waterproofed textile fabrics. L. J. Mutty Company. No. 81,226; Mar. 14; Gaz. vol. 164; p. 504.
Waterproofing compound. R. H. Miller. No. 82,905; Aug. 1; Gaz. vol. 169; p. 200.
Wax, Floor-. The Hockaday Paint Co. No. 81,709; May 2; Gaz. vol. 166; p. 246.
Wax for lubricating and waxing thread. Chemical Specialty Company. No. 81,590; Apr. 25; Gaz. vol. 165; p. 967.
Wax, Ironing-. Ivory Wax Company. No. 84,397; Dec. 12; Gaz. vol. 173; p. 579.
Wax, Mineral. J. Morningstar. No. 82,458; June 27; Gaz. vol. 167; p. 979.
Wax, Petroleum-. A. D. Miller's Sons Co. No. 80,608; Jan. 10; Gaz. vol. 162; p. 534.
Wax, Sealing-. E. E. Coleman. No. 82,575; July 11; Gaz. vol. 168; p. 519.
Weighing-machines. J. Ravené Söhne. No. 83,357; Sept. 5; Gaz. vol. 170; p. 240.
Welt-trimmers. Frank W. Whitcher Company. No. 81,237; Mar. 14; Gaz. vol. 164; p. 504.
Whiskies, Blended. Burke & Co. No. 83,136; Aug. 22; Gaz. vol. 169; p. 939.
Whisky. G. E. Ahrens. No. 80,748; Jan. 31; Gaz. vol. 162; p. 1179.
Whisky. L. Ardin. No. 80,751; Jan. 31; Gaz. vol. 162; p. 1179.
Whisky. The Daviess County Distilling Co. No. 80,765; Jan. 31; Gaz. vol. 162; p. 1179.
Whisky. B. K. Bloch. No. 81,244; Mar. 21; Gaz. vol. 164; p. 735.
Whisky. W. A. Gaines & Company. No. 81,390; Apr. 4; Gaz. vol. 165; p. 237.
Whisky. W. E. Barrs. No. 81,579; Apr. 25; Gaz. vol. 165; p. 967.
Whisky. C. Berry & Co. No. 81,666; May 2; Gaz. vol. 166; p. 245.
Whisky. J. Y. Covington & Co. No. 81,860; May 16; Gaz. vol. 166; p. 747.
Whisky. Lyle & Kinahan. No. 81,890; May 16; Gaz. vol. 166; p. 748.
Whisky. Craigellachie-Glenlivet Distillery Co. No. 82,056; May 30; Gaz. vol. 166; p. 1277.
Whisky. Distillers Direct Supply Store. No. 82,059; May 30; Gaz. vol. 166; p. 1277.
Whisky. H. L. Griesedieck Distilling Co. No. 82,078; May 30; Gaz. vol. 166; p. 1278.
Whisky. M. Letzelter. No. 82,098; May 30; Gaz. vol. 166; p. 1278.
Whisky. J. F. Conrad Grocer Co. No. 82,305; June 20; Gaz. vol. 167; p. 757.
Whisky. John Haig & Co. No. 82,435; June 27; Gaz. vol. 167; p. 978.
Whisky. Craigellachie-Glenlivet Distillery Co. No. 82,499; July 4; Gaz. vol. 168; p. 245.
Whisky. S. G. Atkins Co. No. 82,859; Aug. 1; Gaz. vol. 169; p. 199.
Whisky. A. Usher & Company. No. 83,039; Aug. 15; Gaz. vol. 169; p. 697.
Whisky. Thos. H. Handy & Co. No. 83,066; Aug. 15; Gaz. vol. 169; p. 697.
Whisky. C. A. Van Rensselaer & Company. No. 83,106; Aug. 15; Gaz. vol. 169; p. 699.
Whisky. S. N. Weil & Co. No. 83,195; Aug. 22; Gaz. vol. 169; p. 941.
Whisky. The Kelly-Steinmetz Liquor Co. No. 83,339; Sept. 5; Gaz. vol. 170; p. 240.
Whisky. W. Teacher & Sons. No. 83,373; Sept. 5; Gaz. vol. 170; p. 241.
Whisky. The Schuster Co. No. 83,603; Sept. 26; Gaz. vol. 170; p. 925.
Whisky. S. & S. H. Freiberg. No. 84,175; Nov. 14; Gaz. vol. 172; p. 545.
Whisky. Max Stiner & Co. No. 84,271; Nov. 21; Gaz. vol. 172; p. 819.
Whisky and brandy, Blended. P. Braun. No. 84,162; Nov. 14; Gaz. vol. 172; p. 545.
Whisky, brandy, and gin. Gesellschaft für Brauerei, Spiritus und Pressehefe-Fabrikation vormals G. Sinner. No. 82,429; June 27; Gaz. vol. 167; p. 978.
Whisky, brandy, gin, &c. S. Clague. No. 81,435; Apr. 11; Gaz. vol. 165; p. 469.
Whisky, gin, and buchu gin. Ullman-Einstein Co. No. 84,147; Nov. 7; Gaz. vol. 172; p. 257.
Window-cleaning apparatus. S. Grimson. No. 81,525; Apr. 18; Gaz. vol. 165; p. 726.
Window-cleaning squeegees. The Strock Mfg. Co. No. 81,557; Apr. 18; Gaz. vol. 165; p. 726.
Wine. California Wine Association. Nos. 81,780–1; May 9; Gaz. vol. 166; p. 507.
Wine, Bitter. F. Kalina. No. 82,445; June 27; Gaz. vol. 167; p. 978.
Wines, Certain. Gundlach-Bundschu Wine Co. No. 84,179; Nov. 14; Gaz. vol. 172; p. 545.
Wine, Claret-. The California Wine Association. No. 82,960; Aug. 8; Gaz. vol. 169; p. 445.
Wine, Combination of scuppernong and Tokay. Golden Gate Company. No. 84,621; Dec. 26; Gaz. vol. 173; p. 1074.
Wine, extract of meat, and malt, Preparation of. Coleman & Co. No. 83,323; Sept. 5; Gaz. vol. 170; p. 239.
Wine, Moselle. The Saarburg-Moselle Co. No. 81,172; Mar. 7; Gaz. vol. 164; p. 246.
Wine, Port-. Park & Tilford. No. 82,636; July 11; Gaz. vol. 168; p. 521.
Wine, Port-. John Harvey and Sons. No. 83,490; Sept. 19; Gaz. vol. 170; p. 699.
Wine, Port-. Carmel Wine Company. No. 83,986; Oct. 31; Gaz. vol. 171; p. 1253.
Wine, Pure California port-. California Wine Association. No. 82,961; Aug. 8; Gaz. vol. 169; p. 445.
Wine, Scuppernong-. W. L. Weller & Sons. No. 83,875; Oct. 17; Gaz. vol. 171; p. 741.
Wine, Scuppernong-. Golden Gate Company. No. 84,622; Dec. 26; Gaz. vol. 173; p. 1074.
Wine, Sherry-. A. D. Shaw & Co. No. 83,012; Aug. 8; Gaz. vol. 169; p. 447.
Wine, Sherry-. Sobrinos de Don Domingo Rodriguez. No. 83,182; Aug. 22; Gaz. vol. 169; p. 940.
Wine, Sherry and port. United Wine & Trading Co. No. 80,744; Jan. 24; Gaz. vol. 162; p. 996.
Wine, Sherry and port. United Wine & Trading Co. No. 82,819; July 25; Gaz. vol. 168; p. 1029.
Wines. A. Mattei. No. 83,755; Oct. 10; Gaz. vol. 171; p. 478.
Wines, Certain. S. Clague. No. 82,417; June 27; Gaz. vol. 167; p. 977.
Wines, Certain. Golden Gate Company. No. 84,620; Dec. 26; Gaz. vol. 173; p. 1074.
Wines, Moselle. M. Arnoux. No. 83,127; Aug. 22; Gaz. vol. 169; p. 939.
Wines, Port and sherry. J. Schmittke. No. 84,133; Nov. 7; Gaz. vol. 172; p. 257.
Wines, Still and champagne. R. Jaeger-Freyeisen. No. 82,795; July 25; Gaz. vol. 168; p. 1028.
Wire. The Webb Wire Works. No. 83,795; Oct. 10; Gaz. vol. 171; p. 479.
Wire, Barb-. The American Steel & Wire Company of New Jersey. No. 84,302; Nov. 28; Gaz. vol. 172; p. 1085.
Wire, Steel. American Felt Company. No. 80,750; Jan. 31; Gaz. vol. 162; p. 1179.
Witch-hazel, Double extract of. Lanman & Kemp. No. 84,107; Nov. 7; Gaz. vol. 172; p. 256.
Wood and fiber panels and strips. American Joxyl Company. No. 82,287; June 20; Gaz. vol. 167; p. 757.
Wood-preservative, disinfectant, and insecticide, Chemical. Northeastern Company. No. 84,124; Nov. 7; Gaz. vol. 172; p. 256.
Wooden columns for building purposes. Memphis Column Co. No. 82,162; June 6; Gaz. vol. 167; p. 238.
Wool and cotton mixed fabrics. The Windsor Print Works. No. 81,240; Mar. 14; Gaz. vol. 164; p. 504.
Wool and cotton piece goods. Pacific Mills. No. 80,869; Feb. 7; Gaz. vol. 163; p. 228.
Wool batting. Evans & Company. No. 81,386; Apr. 4; Gaz. vol. 165; p. 237.
Wool, worsted, and cotton piece goods. A. L. Levy. No. 83,923; Oct. 24; Gaz. vol. 171; p. 980.
Woolen and cotton piece goods. Hamilton Woolen Company. No. 83,735; Oct. 10; Gaz. vol. 171; p. 478.
Woolen dress goods. Strawbridge & Clothier. No. 80,958; Feb. 14; Gaz. vol. 163; p. 479.
Woolen dress goods. Strawbridge & Clothier. No. 81,177; Mar. 7; Gaz. vol. 164; p. 246.
Woolen dress goods. Botany Worsted Mills. No. 83,319; Sept. 5; Gaz. vol. 170; p. 239.
Woolen piece goods. Detmer Woolen Company. No. 81,967; May 23; Gaz. vol. 166; p. 981.
Woolen piece goods. Skinner Brothers. No. 82,726; July 18; Gaz. vol. 168; p. 784.
Woolen piece goods. S. Stein & Co. No. 83,287; Aug. 29; Gaz. vol. 169; p. 1181.
Woolen, worsted, silk, mohair, and cotton piece goods. G. J. Geer. Nos. 83,727–8; Oct. 10; Gaz. vol. 171; p. 477.
Wrenches. J. H. Williams & Co. No. 81,115; Feb. 28; Gaz. vol. 163; p. 975.
Writing materials, Certain. Hall & Lyon Co. No. 83,905; Oct. 24; Gaz. vol. 171; p. 979.
Yarn. The H. B. Claflin Company. No. 83,321; Sept. 5; Gaz. vol. 170; p. 239.
Yarns, Cotton. Flint Manufacturing Company. No. 83,239; Aug. 29; Gaz. vol. 169; p. 1180.
Yarns, Cotton. Manomet Mills. No. 84,020; Oct. 31; Gaz. vol. 171; p. 1254.
Yarns, Cotton. Nonquitt Spinning Company. No. 84,028; Oct. 31; Gaz. vol. 171; p. 1254.
Yeast. C. Ingram. No. 82,089; May 30; Gaz. vol. 166; p. 1278.
Yeast. Clover Leaf Yeast Co. No. 84,310; Nov. 28; Gaz. vol. 172; p. 1085.
Zinc sheets. Société Anonyme des Mines & Fonderies de Zinc de la Vieille Montagne. No. 84,138; Nov. 7; Gaz. vol. 172; p. 257.

ALPHABETICAL LIST OF LABELS.

"A. D. S. Peredixo Cream." (For Toilet Cream.) American Druggists Syndicate. No. 15,521; Feb. 7; Gaz. vol. 163; p. 229.
"Acme Operating Tray." (For Operating-Trays for Physicians and Embalmers.) F. L. Egelhof. No. 15,866; Aug. 29; Gaz. vol. 169; p. 1183.
"Adirondack Maple Company's Cane and Maple Breakfast Syrup." (For a Compound of Cane and Maple Syrup.) Adirondack Maple Co. No. 15,706; May 2; Gaz. vol. 166; p. 249.
"Alden Chocolates." (For Chocolate Candy.) Puritan Candy Co. No. 16,057; Nov. 28; Gaz. vol. 172; p. 1087.
"Alexander." (For Machine-Twist.) Sea Island Thread Co. No. 15,674; Apr. 18; Gaz. vol. 165; p. 7[illegible].
"All America." (For Men's Garters.) Peerless Garter Manufacturing Co. No. 15,860; Aug. 22; Gaz. vol. 169; p. 942.
"All-Malt Lager." (For Lager-Beer.) Milwaukee-Waukesha Brewing Company. No. 15,970; Oct. 10; Gaz. vol. 171; p. 480.
"Allith 'Reliable' Round Track Door Hangers." (For Door-Hangers.) Allith Manufacturing Company. No. 15,648; Apr. 11; Gaz. vol. 165; p. 472.
"Always Good." (For Canned Hominy.) Lehmann-Higginson Grocer Co. No. 15,795; June 27; Gaz. vol. 167; p. 980.
"Always Good." (For Canned Kraut.) Lehmann-Higginson Grocer Co. No. 15,796; June 27; Gaz. vol. 167; p. 980.
"Always Good." (For Canned Tomatoes.) Lehmann-Higginson Grocer Co. No. 15,797; June 27; Gaz. vol. 167; p. 980.
"Always Good." (For Canned Pumpkin.) Lehmann-Higginson Grocer Co. No. 15,798; June 27; Gaz. vol. 167; p. 980.
"Always Good." (For Canned Peas.) Lehmann-Higginson Grocer Co. No. 15,799; June 27; Gaz. vol. 167; p. 980.
"Always Good." (For Canned Corn.) Lehmann-Higginson Grocer Co. No. 15,800; June 27; Gaz. vol. 167; p. 980.
"Always Good." (For Canned Baked Beans.) Lehmann-Higginson Grocer Co. No. 15,801; June 27; Gaz. vol. 167; p. 980.
"Always Good." (For Canned Kidney-Beans.) Lehmann-Higginson Grocer Co. No. 15,802; June 27; Gaz. vol. 167; p. 980.
"Always Good." (For Canned Peaches.) Lehmann-Higginson Grocer Co. No. 15,870; Sept. 5; Gaz. vol. 170; p. 242.
"Always Good." (For Canned Pineapple.) Lehmann-Higginson Grocer Co. No. 15,871; Sept. 5; Gaz. vol. 170; p. 242.
"American Blue Ribbon Writing Ink." (For Writing-Inks.) The American Ink Company. No. 15,823; July 18; Gaz. vol. 168; p. 786.
"American Club Beer." (For Beer.) Lembeck & Betz Eagle Brewing Co. No. 15,948; Sept. 26; Gaz. vol. 170; p. 926.
"American Hoof Packing." (For a Remedy for Foot Diseases of Horses.) W. J. Douglass Co. No. 15,732; May 9; Gaz. vol. 166; p. 510.
"American League." (For Rye Whisky.) W. Albrecht. No. 16,033; Nov. 21; Gaz. vol. 172; p. 820.
"American Pride." (For Ginger-Ale.) K. Zerwekh. No. 15,849; Aug. 15; Gaz. vol. 169; p. 700.
"Amity." (For Cigars.) Schmidt & Co. No. 15,575; Mar. 7; Gaz. vol. 164; p. 248.
"Ammon & Persons A. & P. Brand." (For Oleomargarin.) Ammon & Person. No. 15,710; May 2; Gaz. vol. 166; p. 249.
"An Insecticide." (For Insecticides.) J. A. Paulhus. No. 15,889; Sept. 12; Gaz. vol. 170; p. 480.
"Anti-Hedake Air Cooled Straw Hat." (For Hats.) F. Meyer. No. 15,620; Mar. 28; Gaz. vol. 164; p. 973.
"Antique." (For Liquid Fluid for Polishing Wood.) B. Haas. No. 15,557; Feb. 21; Gaz. vol. 163; p. 726
"Arabian Banquet." (For Coffee.) The Bour Company. No. 15,735; May 16; Gaz. vol. 166; p. 750.
"Arbolin." (For Tree-Spray, Insecticide, and Cattle-Wash.) H. R. Crowley. No. 16,014; Nov. 7; Gaz. vol. 172; p. 258.
"Armée Brand Cream Peanut Butter." (For Peanut-Butter.) Arguimbau & Ramée. No. 16,010; Nov. 7; Gaz. vol. 172; p. 258.
"Armstrong's Onion Salad." (For Onion Salad.) L. N. Armstrong. No. 15,794; June 27; Gaz. vol. 167; p. 980.
"Art." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,529; Feb. 14; Gaz. vol. 163; p. 480.
"Atomic Sulphur." (For Fungicides and Insecticides.) Thomsen Chemical Co. No. 15,875; Sept. 5; Gaz. vol. 170; p. 242.
"Augusta." (For Toilet-Paper.) E. J. Kelly. No. 15,738; May 16; Gaz. vol. 166; p. 750.
"Automatic Soap." (For Soap.) Fitzpatrick Bros. No. 15,845; Aug. 8; Gaz. vol. 169; p. 448.
"Aztec Brand." (For Fresh and Canned Tomatoes.) The Klein Fruit Company. No. 15,711; May 2; Gaz. vol. 166; p. 249.
"B. R. K. Hair Tonic." (For Hair-Tonic.) B. R. Kunz. No. 15,537; Feb. 14; Gaz. vol. 163; p. 480.
"B & S." (For Teas.) Bleecker & Simons. No. 15,785; June 27; Gaz. vol. 167; p. 980.
"Babcock Spavin Remedy." (For Spavin Remedies.) D. Babcock. No. 15,628; Apr. 4; Gaz. vol. 165; p. 239.
"Baby Pump." (For Toy Pump.) The Pinafour Toy Mfg. Co. No. 16,050; Nov. 21; Gaz. vol. 172; p. 820.
"Bachelor Buttonless Knit Night Shirts." (For Night-Shirts.) W. A. Ainsworth. No. 15,447; Jan. 3; Gaz. vol. 162; p. 267.
"Bad Boy." (For Hosiery.) Richmond Hosiery Mills. No. 15,904; Sept. 12; Gaz. vol. 170; p. 480.
"Badger State Brand." (For Cheese.) The Portland Cheese Co. No. 15,761; June 6; Gaz. vol. 167; p. 239.
"Badger State Brand." (For Cheese.) The Portland Cheese Co. No. 15,793; June 27; Gaz. vol. 167; p. 980.
"Baker's Premium Shred Cocoanut." (For Shredded Cocoanut.) Franklin Baker Company. No. 15,997; Oct. 31; Gaz. vol. 171; p. 1256.
"Balm Mela." (For Toilet Preparations.) G. C. Milwitzky. No. 15,922; Sept. 26; Gaz. vol. 170; p. 926.
"Bananola Bread." (For Bread.) C. A. Thimsen. No. 15,708; May 2; Gaz. vol. 166; p. 249.
"Base Ball Fan Button." (For Lapel-Buttons.) J. Morris. No. 15,571; Feb. 28; Gaz. vol. 163; p. 976.
"Bass Islands." (For Unfermented Grape-Juice.) The Bass Islands Vineyards Co. No. 15,869; Sept. 5; Gaz. vol. 170; p. 242.
"Bear's Emulsion." (For Petroleum Combined with Hypophosphites.) The Bear Chemical Company. No. 15,591; Mar. 7; Gaz. vol. 164; p. 248.
"Bella Lucia." (For Cigars.) Schmidt & Co. No. 16,101; Dec. 26; Gaz. vol. 173; p. 1078.
"Belleanna Brand." (For Fish.) New England Fish Company. No. 15,643; Apr. 11; Gaz. vol. 165; p. 472.
"Bell's Spiced Seasoning." (For Spiced Seasoning for Meat, Game, Fish, and Poultry.) The William G. Bell Company. No. 15,450; Jan. 10; Gaz. vol. 162; p. 535.
"Best Seller." (For Cigars.) The Moehle Lithographic Co. No. 15,508; Feb. 7; Gaz. vol. 163; p. 229.
"Biondy's Dandruff & Hair Preparation." (For Dandruff and Hair Preparation.) M. Biondy. No. 15,874; Sept. 5; Gaz. vol. 170; p. 242.
"Black and White." (For a Condiment.) W. Horlick, Jr. No. 15,742; May 23; Gaz. vol. 166; p. 984.
"Blackmore." (For Cigars.) A. C. Henschel & Company. No. 15,680; Apr. 25; Gaz. vol. 165; p. 970.
"Bohemian." (For Table Sauce.) The Moravian Community. No. 15,924; Sept. 26; Gaz. vol. 170; p. 926.
"Bond-Ost." (For Cheese.) C. A. Carlson. No. 16,072; Dec. 19; Gaz. vol. 173; p. 861.
"Booster." (For Cigars.) Allen & Shawver. No. 15,806; July 4; Gaz. vol. 168; p. 247.
"Boss Fellow." (For Children's Hosiery.) J. & W. Jung Co. No. 15,678; Apr. 18; Gaz. vol. 165; p. 728.
"Bouquet Grande." (For Cigars.) A. C. Henschel & Co. No. 15,733; May 16; Gaz. vol. 166; p. 750.
"Bourbon de Luxe." (For Whisky.) L. Eppstein & Son. No. 16,027; Nov. 21; Gaz. vol. 172; p. 820.
"Bour's Pilot Coffee." (For Coffee.) The Bour Company. No. 16,079; Dec. 26; Gaz. vol. 173; p. 1078.
"Boy Scout." (For Hosiery.) Richmond Hosiery Mills. No. 15,891; Sept. 12; Gaz. vol. 170; p. 480.
"Brass City Blitzen Liquid Metal Polish." (For Metal-Polish.) W. G. French. No. 16,047; Nov. 21; Gaz. vol. 172; p. 820.
"Breakfast Cocoa." (For Cocoa.) Rode & Brand. No. 15,705; May 2; Gaz. vol. 166; p. 249.
"Breakfast Cocoa." (For Cocoa.) Rode & Brand. No. 15,736; May 16; Gaz. vol. 166; p. 750.
"Briar Crest." (For Cigars.) Schmidt & Co. No. 15,579; Mar. 7; Gaz. vol. 164; p. 248.
"Brooke Bond Tea." (For Tea.) Brooke, Bond & Company. No. 15,513; Feb. 7; Gaz. vol. 163; p. 229.
"Brownstein's Bigaline." (For a Preparation for Ironing.) H. I. Brownstein. No. 15,846; Aug. 8; Gaz. vol. 169; p. 448.

Alphabetical list of labels—Continued.

"Bruceline." (For Hair-Restorer.) M. Bruce. No. 16,013; Nov. 7; Gaz. vol. 172; p. 258.
"Buckeye Brew." (For Bottled Beer.) The Ohio Brewing Company. No. 15,596; Mar. 14; Gaz. vol. 164; p. 505.
"Bull Dog Hose." (For Hosiery.) H. J. Bigony. No. 15,679; Apr. 18; Gaz. vol. 165; p. 728.
"Bully Good." (For Hose-Supporters.) Peerless Garter Manufacturing Co. No. 15,878; Sept. 5; Gaz. vol. 170; p. 242.
"Bunker Hill Brand." (For Condensed Milk.) Continental Condensed Milk Co. No. 15,611; Mar. 28; Gaz. vol. 164; p. 973.
"Burckhardt's German Style Home Made Egg Noodles." (For Egg-Noodles.) F. Burckhardt. No. 15,519; Feb. 7; Gaz. vol. 163; p. 229.
"Cabalero." (For Creme de Cacao.) Joseph Krieg-Fink Company. No. 15,852; Aug. 22; Gaz. vol. 169; p. 942.
"California." (For Hosiery.) Richmond Hosiery Mills. No. 15,897; Sept. 12; Gaz. vol. 170; p. 480.
"California Peaches." (For Fresh Peaches.) Penryn Fruit Company. No. 15,641; Apr. 11; Gaz. vol. 165; p. 472.
"Cape Cod Cranberries." (For Cranberries.) E. L. Hasler Co. No. 15,996; Oct. 31; Gaz. vol. 171; p. 1256.
"Carbon-Nit." (For Carbon-Remover.) A. H. Hopkins. No. 16,017; Nov. 7; Gaz. vol. 172; p. 258.
"Carlos Zaldo." (For Cigars.) A. C. Henschel & Company. No. 15,768; June 13; Gaz. vol. 167; p. 512.
"Carlotina." (For Cigars.) L. G. Smith & Co. No. 15,817; July 18; Gaz. vol. 168; p. 786.
"Cedar Rapids Suits Me." (For Cigars.) J. Burianek & Son. No. 15,635; Apr. 11; Gaz. vol. 165; p. 472.
"Celery Tonic." (For Celery Tonic.) J. Honigsberg. No. 15,854; Aug. 22; Gaz. vol. 169; p. 942.
"Cereal Foods Composed of All of the Grains for Muscle and Brains." (For Cereal Foods.) M. Brooks. No. 15,729; May 9; Gaz. vol. 166; p. 510.
"Certain Light." (For Matches.) The Ashland Match Company. No. 15,539; Feb. 14; Gaz. vol. 163; p. 480.
"Chalmers Pearls." (For Shell Buttons.) H. Chalmers & Son. No. 15,748; May 23; Gaz. vol. 166; p. 984.
"Charter Oak Brand." (For Condensed Milk.) Continental Condensed Milk Co. No. 15,530; Feb. 14; Gaz. vol. 163; p. 480.
"Cherokee." (For Hosiery.) Richmond Hosiery Mills. No. 15,899; Sept. 12; Gaz. vol. 170; p. 480.
"Chickamauga." (For Hosiery.) Richmond Hosiery Mills. No. 15,910; Sept. 12; Gaz. vol. 170; p. 480.
"Childs'." (For Cocoa.) Rode & Brand. No. 15,688; Apr. 25; Gaz. vol. 165; p. 970.
"Chocolate Covered Strawberries." (For Candies.) Bunte Bros. No. 15,967; Oct. 10; Gaz. vol. 171; p. 480.
"Cigars." (For Cigars.) American Lithographic Company. No. 15,973; Oct. 17; Gaz. vol. 171; p. 742.
"Cigars." (For Cigars.) American Lithographic Company. No. 16,004; Nov. 7; Gaz. vol. 172; p. 258.
"Cindarella." (For Shoe-Dressing.) A. S. Loud. No. 15,825; July 18; Gaz. vol. 168; p. 786.
"Classic Laxative Caramels." (For Laxative Caramels.) Clark and Sherburne. No. 15,553; Feb. 21; Gaz. vol. 163; p. 726.
"Cleanzene." (For Scouring and Cleaning Remedy.) M. S. Rourke Mfg. Co. No. 16,046; Nov. 21; Gaz. vol. 172; p. 820.
"Cloister Cloth." (For Cotton Piece Goods.) Jones Brothers. No. 15,868; Aug. 29; Gaz. vol. 169; p. 1183.
"Collar City Cigar." (For Cigars.) F. X. Oberle & Co. No. 15,703; May 2; Gaz. vol. 166; p. 249.
"'Collar Hug' Clothes." (For Clothing.) H. J. Cahn. No. 15,986; Oct. 24; Gaz. vol. 171; p. 982.
"Colonial Bond." (For Cigars.) A. C. Henschel & Company. No. 15,767; June 13; Gaz. vol. 167; p. 512.
"Colonial Brand." (For Skimmed Milk Condensed.) Continental Condensed Milk Co. No. 16,063; Dec. 12; Gaz. vol. 173; p. 582.
"Colorado." (For Hosiery.) Richmond Hosiery Mills. No. 15,903; Sept. 12; Gaz. vol. 170; p. 480.
"Commercial Reply Envelope." (For Envelops.) G. W. McCuen. No. 15,824; July 18; Gaz. vol. 168; p. 786.
"Commodus." (For Cigars.) F. R. Knight. No. 15,988; Oct. 31; Gaz. vol. 171; p. 1256.
"Como Reina." (For Cigars.) Julius Bien Company. No. 15,721; May 9; Gaz. vol. 166; p. 510.
"Concord Brand." (For Skimmed Milk Condensed.) Continental Condensed Milk Co. No. 15,994; Oct. 31; Gaz. vol. 171; p. 1256.
"Conqueror." (For Wheat-Flour.) Pillsbury Flour Mills Company. No. 15,812; July 11; Gaz. vol. 168; p. 523.
"Continental." (For Harmonicas.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,666; Apr. 18; Gaz. vol. 165; p. 728.
"Continental Seal." (For Cigars.) L. W. Keyer. No. 16,054; Nov. 28; Gaz. vol. 172; p. 1087.
"Cornout." (For a Remedy for Corns.) L. W. Estes. No. 16,044; Nov. 21; Gaz. vol. 172; p. 820.
"Cosy Cup Brand." (For Tea.) T. G. Breen. No. 16,080; Dec. 26; Gaz. vol. 173; p. 1078.
"Cough-Cold Syrup." (For Cough Remedy.) M. M. Fenner Company. No. 15,598; Mar. 14; Gaz. vol. 164; p. 505.
"Cranes Baking Powder." (For Baking-Powder.) National Food Co. No. 15,882; Sept. 12; Gaz. vol. 170; p. 480.
"Cream of Rye." (For Rye-Flakes.) Minneapolis Cereal Co. No. 15,790; June 27; Gaz. vol. 167; p. 980.
"Creech's Laxagestine." (For Medicine.) D. H. Creech. No. 15,568; Feb. 28; Gaz. vol. 163; p. 976.
"Crescent." (For Beer.) A. M. Smith. No. 15,726; May 9; Gaz. vol. 166; p. 510.
"Crescent Hi' Ball." (For Ginger-Ale.) J. P. Hax. No. 16,088; Dec. 26; Gaz. vol. 173; p. 1078.
"Crescent Sylvan Lithiated." (For Carbonated Water.) J. P. Hax. No. 16,089; Dec. 26; Gaz. vol. 173; p. 1078.
"Cunningham's Automobile Cleanser and Polish." (For a Cleansing and Polishing Preparation.) C. R. Cunningham. No. 15,522; Feb. 7; Gaz. vol. 163; p. 229.
"Dainty Seedless Grapes From California." (For Grapes.) California Fruit Distributors. No. 16,059; Dec. 12; Gaz. vol. 173; p. 582.
"Daisy Field." (For Cigars.) Schmidt & Co. No. 15,972; Oct. 17; Gaz. vol. 171; p. 742.
"Damasco." (For Cigars.) Schmidt & Co. No. 15,577; Mar. 7; Gaz. vol. 164; p. 248.
"Darby's Circus Candy." (For Candy.) The Darby Candy Company. Nos. 15,458–87; Jan. 24; Gaz. vol. 162; p. 997.
"Darby's Circus Candy." (For Candy.) The Darby Candy Company. Nos. 15,514–16; Feb. 7; Gaz. vol. 163; p. 229.
"Darby's Circus Candy." (For Candy.) The Darby Candy Company. Nos. 15,550–2; Feb. 21; Gaz. vol. 163; p. 726.
"Dead Shot." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,931; Oct. 3; Gaz. vol. 171; p. 212.
"Delf Hose." (For Hosiery.) Holeproof Hosiery Co. No. 15,867; Aug. 29; Gaz. vol. 169; p. 1183.
"Delgado." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,503; Feb. 7; Gaz. vol. 163; p. 229.
"Delicious Fruits From California." (For Fruits.) California Fruit Distributors. No. 16,060; Dec. 12; Gaz. vol. 173; p. 582.
"Demarr Hair Tonic." (For Hair-Tonic.) M. M. Layton. No. 16,043; Nov. 21; Gaz. vol. 172; p. 820.
"Dentakos." (For a Preparation for the Teeth, Mouth, and Gums.) The Sterns Specialty Co. No. 15,694; Apr. 25; Gaz. vol. 165; p. 970.
"Dentalette." (For Tooth-Powder.) The Henry B. Gilpin Company. No. 15,843; Aug. 8; Gaz. vol. 169; p. 448.
"Dilling's Milk Chocolate." (For Milk Chocolate.) Dilling & Co. No. 15,455; Jan. 17; Gaz. vol. 162; p. 781.
"Doll Face Lotion." (For Lotion.) W. J. Lightfoot. No. 15,887; Sept. 12; Gaz. vol. 170; p. 480.
"Dollar Box Chocolates." (For Candy.) Congress Candy Co. No. 16,081; Dec. 26; Gaz. vol. 173; p. 1078.
"Domoto Plant Food." (For Plant Food.) North American Mercantile Co. No. 16,039; Nov. 21; Gaz. vol. 172; p. 820.
"Don Robino." (For Cigars.) The Moehle Lithographic Co. No. 15,756; June 6; Gaz. vol. 167; p. 239.
"Dona Vera." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,914; Sept. 26; Gaz. vol. 170; p. 926.
"Douglas' Fruit-Nut Chocolates." (For Chocolate Candy.) Douglas Candy Co. No. 15,966; Oct. 10; Gaz. vol. 171; p. 480.
"Dr. Blair's Blush of Roses." (For a Lotion.) E. D. Sawkins. No. 15,713; May 2; Gaz. vol. 166; p. 249.
"Dr. Brown's Ginger Tonic." (For a Non-Alcoholic Beverage.) Schoneberger & Noble. No. 15,624; Apr. 4; Gaz. vol. 165; p. 239.
"Dr. George Brown's Catarrh Cabinet." (For Medicine and Apparatus for the Treatment of Catarrh.) Brown Chemical Co. No. 15,921; Sept. 26; Gaz. vol. 170; p. 926.
"Dr. Hickman's Motor Liniment." (For Liniment.) C. A. Hickman. No. 15,446; Jan. 3; Gaz. vol. 162; p. 267.
"Dr. J. B. Archambault's Long Life Tonic." (For Tonic.) Dr. J. B. Archambault. No. 15,753; May 30; Gaz. vol. 166; p. 1280.
"Dr. Neitz' Herb Compound." (For Medicine.) H. J. Neitz. No. 15,589; Mar. 7; Gaz. vol. 164; p. 248.
"Driftwood." (For Cigars.) E. F. Brown. No. 15,453; Jan. 17; Gaz. vol. 162; p. 781
"Dry Battery." (For Dry Batteries.) H. C. Roberts Electric Supply Co. No. 16,018; Nov. 7; Gaz. vol. 172; p. 258.
"Dubonnet." (For Cocktails.) J. B. Martin. No. 15,444; Jan. 3; Gaz. vol. 162; p. 267.
"Dunkel Bräu." (For Beer.) The Monumental Brewing Co. No. 15,637; Apr. 11; Gaz. vol. 165; p. 472.
"Dunton's Non Twisting Linen Finished Tape." (For Tape.) The M. W. Dunton Co. No. 15,599; Mar. 14; Gaz. vol. 164; p. 505.

Alphabetical list of labels—Continued.

"Dutch Brand Sweetened Cocoa." (For Cocoa.) Acme Chemical Co. No. 15,605; Mar. 21; Gaz. vol. 164; p. 738.
"E. A. Kline & Co's Lettergram." (For Cigars.) E. A. Kline & Co. No. 15,816; July 18; Gaz. vol. 168; p. 786.
"Eagle Watch and Clock Lubricant." (For Watch and Clock Lubricant.) The Eagle Lubricant Manufacturing Company. No. 16,048; Nov. 21; Gaz. vol. 172; p. 820.
"Easton Special Brand Maine Style Sugar Corn." (For Sugar-Corn.) Easton Packing Co. No. 15,616; Mar. 28; Gaz. vol. 164; p. 973.
"Easton Special Brand Tomatoes." (For Tomatoes.) Easton Packing Co. No. 15,615; Mar. 28; Gaz. vol. 164; p. 973.
"Easy Pudding." (For Pudding.) Arcadia Food Company. No. 15,965; Oct. 10; Gaz. vol. 171; p. 480.
"Egg Rolling." (For a Game.) B. R. Gilmour & Co. No. 15,491; Jan. 24; Gaz. vol. 162; p. 997.
"El Ciro." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,934; Oct. 3; Gaz. vol. 171; p. 212.
"El Delico." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,935; Oct. 3; Gaz. vol. 171; p. 212.
"El Favorito De Cuba." (For Cigars.) The Moehle Lithographic Co. No. 15,504; Feb. 7; Gaz. vol. 163; p. 229.
"El Finero." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,501; Feb. 7; Gaz. vol. 163; p. 229.
"Elite Brand." (For Cantaloups.) R. E. Gibson. No. 15,792; June 27; Gaz. vol. 167; p. 980.
"Ellore." (For Cigars.) C. Fortriede. No. 15,810; July 11; Gaz. vol. 168; p. 523.
"English Violet." (For Toilet-Paper.) The John Hoberg Co. No. 16,093; Dec. 26; Gaz. vol. 173; p. 1078.
"Eve." (For Collar-Supporters.) J. W. Schloss & Co. No. 15,544; Feb. 14; Gaz. vol. 163; p. 480.
"Ever Ready." (For Canned Sugar-Corn.) H. P. Strasbaugh. No. 15,999; Oct. 31; Gaz. vol. 171; p. 1256.
"Everlast." (For Hosiery.) H. Wolf & Sons. No. 16,019; Nov. 7; Gaz. vol. 172; p. 258.
"Excelsior Paints." (For Paints.) Excelsior Paint Co. No. 16,049; Nov. 21; Gaz. vol. 172; p. 820.
"F. T. Smith's Compound for Improved Welsh Rarebit." (For Welsh Rabbit.) F. T. Smith. No. 15,838; Aug. 8; Gaz. vol. 169; p. 448.
"Fabrica De Tabacos." (For Cigars.) A. C. Henschel & Company. No. 15,681; Apr. 25; Gaz. vol. 165; p. 970.
"Fairy Polish." (For Polish for Pianos, Furniture, and Automobiles.) Fairy Manufacturing Co. No. 16,084; Dec. 26; Gaz. vol. 173; p. 1078.
"Fancy Brand." (For Almonds.) California Almond Growers Exg. No. 15,925; Sept. 26; Gaz. vol. 170; p. 926.
"Faustone Wall Paint." (For Paint.) Faust Paint Specialty Co. No. 15,695; Apr. 25; Gaz. vol. 165; p. 970.
"Ferro - China - Monticelli ('Iron - Chincona - Bitters')." (For Medicinal Tonics.) N. Monticelli. No. 15,745; May 23; Gaz. vol. 166; p. 984.
"Figoids." (For Laxative Tablets.) F. J. Spilman. No. 15,865; Aug. 29; Gaz. vol. 169; p. 1183.
"Filacosa." (For Cigars.) Julius Bien Company. No. 15,719; May 9; Gaz. vol. 166; p. 510.
"Filbert Milk Nut Chocolate." (For Nut-Chocolate Confections.) Huyler's. No. 15,493; Jan. 31; Gaz. vol. 162; p. 1182.
"Fit-Rite." (For Horse-Blankets.) W. B. Riley & Co. No. 15,985; Oct. 24; Gaz. vol. 171; p. 982.
"Fit-Rite The Best Union Suit." (For Underwear.) Derge Bodenhausen Clo. Co. No. 15,826; July 18; Gaz. vol. 168; p. 786.
"5¢ Little Indian 5¢." (For Cigars.) F. Hackler. No. 15,960; Oct. 10; Gaz. vol. 171; p. 480.
"Five of Hart's." (For Cigars.) T. H. Hart Company. No. 15,832; Aug. 8; Gaz. vol. 169; p. 448.
"Five Spot." (For Cigars.) A. C. Henschel & Company. No. 15,990; Oct. 31; Gaz. vol. 171; p. 1256.
"Fizz." (For a Non-Intoxicating Malt Beverage.) Jos. Schlitz Brewing Co. No. 15,829; July 25; Gaz. vol. 168; p. 1031.
"Fleischer's Dependable Rings." (For Rings.) T. S. Fleischer. No. 15,747; May 23; Gaz. vol. 166; p. 984.
"Flor de Anecora." (For Cigars.) Arocena & Co. No. 15,499; Feb. 7; Gaz. vol. 163; p. 229.
"Flor De Arolas." (For Cigars.) American Lithographic Company. No. 15,687; Apr. 25; Gaz. vol. 165; p. 970.
"Flor Fina." (For Cigars.) American Lithographic Company. No. 15,574; Mar. 7; Gaz. vol. 164; p. 248.
"Flower City Bank." (For Toy Banks.) Flower City Specialty Co. No. 15,877; Sept. 5; Gaz. vol. 170; p. 242.
"French Garters." (For Hose-Supporters.) M. Mayper & Sons. No. 15,619; Mar. 28; Gaz. vol. 164; p. 973.
"French Twist." (For Machine-Twist.) Sea Island Thread Co. No. 15,675; Apr. 18; Gaz. vol. 165; p. 728.
"Full Concert Harmonica." (For Harmonicas.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,669; Apr. 18; Gaz. vol. 165; p. 728.
"Fumicide." (For Compositions for Destroying or Nullifying the Fumes Generated by Explosives.) Globe Chemical Works. No. 15,942; Oct. 3; Gaz. vol. 171; p. 212.
"Gen'l Putnam." (For Cigars.) Williamson & Brower. No. 15,977; Oct. 24; Gaz. vol. 171; p. 982.
"Genuine Washington Big Bed Roofing Slate." (For Roofing-Slate.) Genuine Washington Slate Co. No. 15,622; Mar. 28; Gaz. vol. 164; p. 973.
"Gerlinda." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,682; Apr. 25; Gaz. vol. 165; p. 970.
"Give Me A Hold I Shall Lift The Earth." (For Expansion-Bolts.) J. F. Booraem. No. 15,976; Oct. 17; Gaz. vol. 171; p. 742.
"Go-Cart." (For Go-Carts.) W. S. Ferris and A. B. Leith. No. 15,527; Feb. 7; Gaz. vol. 163; p. 229.
"Go-Cart." (For Go-Carts.) W. S. Ferris and A. B. Leith. No. 15,716; May 2; Gaz. vol. 166; p. 249.
"Gobbler." (For Cakes.) The Ohio Confection Co. No. 15,533; Feb. 14; Gaz. vol. 163; p. 480.
"Gold Medal." (For Butter.) Ammon & Person. No. 15,975; Oct. 17; Gaz. vol. 171; p. 742.
"Gold Medal." (For Butter.) Ammon & Person. No. 15,995; Oct. 31; Gaz. vol. 171; p. 1256.
"Gold Seal." (For a Cooking-Oil.) The Campbell Co. No. 15,743; May 23; Gaz. vol. 166; p. 984.
"Goodnuff." (For Candy.) Allen & Smith Co. No. 15,752; May 30; Gaz. vol. 166; p. 1280.
"Graham Wafers." (For Crackers.) F. E. Block Co. No. 15,840; Aug. 8; Gaz. vol. 169; p. 448.
"Graspit." (For Belting.) W. C. Shackelton. No. 15,560; Feb. 21; Gaz. vol. 163; p. 726.
"Green Bay Yacht Club Cigars." (For Cigars.) G. Barth. No. 15,987; Oct. 31; Gaz. vol. 171; p. 1256.
"Gunning Club Ginger Ale." (For Ginger-Ale.) E. L. Kerns. No. 15,811; July 11; Gaz. vol. 168; p. 523.
"Hammonton Dahlias." (For Dahlias.) Association of Hammonton Dahlia Growers. No. 15,608; Mar. 21; Gaz. vol. 164; p. 738.
"Happy Days." (For Beer.) The Crown Brewing Company. No. 15,772; June 20; Gaz. vol. 167; p. 761.
"Hardwear." (For Hosiery.) Richmond Hosiery Mills. No. 15,900; Sept. 12; Gaz. vol. 170; p. 480.
"Harengs de Dieppe Marinés." (For Herring.) E. Chemin. No. 16,083; Dec. 26; Gaz. vol. 173; p. 1078.
"Harvester." (For Whisky.) A. M. Smith. No. 15,727; May 9; Gaz. vol. 166; p. 510.
"Havakan." (For Canned Salmon.) Henry W. Peabody & Co. No. 15,963; Oct. 10; Gaz vol. 171; p. 480.
"Havana Blend." (For Cigars.) L. Chodat Co. No. 16,025; Nov. 21; Gaz. vol. 172; p. 820.
"Hazelox." (For Oxygenated Witch-Hazel.) C. W. Griffith. No. 15,536; Feb. 14; Gaz. vol. 163; p. 480.
"He-Mi-La Chocolates True Fruit Centers." (For Chocolates.) Heit-Miller-Lau Co. No. 16,055; Nov. 28; Gaz. vol. 172; p. 1087.
"Headease." (For Headache-Powders.) L. M. Muffly. No. 15,763; June 6; Gaz. vol. 167; p. 239.
"Heart's Delight Farm Butter." (For Butter.) W. H. Miner. No. 15,709; May 2; Gaz. vol. 166; p. 249.
"Heart's Delight Farm, One Dozen Strictly Fresh Eggs." (For Eggs.) W. H. Miner. No. 15,737; May 16; Gaz. vol. 166; p. 750.
"Heartsease." (For Cigars.) T. H. Hart Co. No. 16,087; Dec. 26; Gaz. vol. 173; p. 1078.
"Heavene." (For Heaves in Horses.) A. Hercer. No. 15,646; Apr. 11; Gaz. vol. 165; p. 472.
"Henry Wheaton." (For Cigars.) The Moehle Lithographic Co. No. 15,505; Feb. 7; Gaz. vol. 163; p. 229.
"Heraldic Tea." (For Tea.) The Heekin Spice Company. No. 16,090; Dec. 26; Gaz. vol. 173; p. 1078.
"Herreshoff Phonograph." (For Phonograph - Disks.) Nat. G. Herreshoff, Jr., Co. No. 15,943; Oct. 3; Gaz. vol. 171; p. 212.
"Hetch-Hetchy." (For Oranges.) The Pioneer Fruit Co. No. 15,597; Mar. 14; Gaz. vol. 164; p. 505.
"Hiawatha." (For Hosiery.) Richmond Hosiery Mills. No. 15,892; Sept. 12; Gaz. vol. 170; p. 480.
"Hog Hide Whip." (For Buggy-Whips.) Excelsior Whip Co. No. 15,540; Feb. 14; Gaz. vol. 163; p. 480.
"Honey Wheat Bread." (For Bread.) E. A. Nuelle. No. 15,881; Sept. 12; Gaz. vol. 170; p. 480.
"Hop-Scotch." (For Hosiery.) Richmond Hosiery Mills. No. 15,905; Sept. 12; Gaz. vol. 170; p. 480.
"How To Prepare And Eat The Mango." (For Mango-Fruit.) G. B. Cellon. No. 15,978; Oct. 24; Gaz. vol. 171; p. 982.
"Howell's Superb Brand." (For Teas.) Warfield-Pratt-Howell Co. No. 15,786; June 27; Gaz. vol. 167; p. 980.
"Huffman's Dandruff Remedy." (For Hair-Tonic.) H. Huffman. No. 15,730; May 9; Gaz. vol. 166; p. 510.
"I. C." (For Canned Beans with Pork.) H. P. Strasbaugh. No. 15,998; Oct. 31; Gaz. vol. 171; p. 1256.
"I-de-lite." (For Cleansers and Polishes.) O. S. Rhoads. No. 15,538; Feb. 14; Gaz. vol. 163; p. 480.
"Imperator." (For Mouth-Organs.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,663; Apr. 18; Gaz. vol. 165; p. 728.

Alphabetical list of labels—Continued.

"Importo." (For Crushed Pineapple.) Import Packing Co. No. 15,791; June 27; Gaz. vol. 167; p. 980.
"Indianola." (For Cigars.) C. H. Birk. No. 15,831; Aug. 8; Gaz. vol. 169; p. 448.
"Indiola Baking Powder." (For Baking-Powder.) India Tea Company. No. 15,518; Feb. 7; Gaz. vol. 163; p. 229.
"Irma." (For Sardines.) The Globe Canning Company. No. 15,940; Oct. 3; Gaz. vol. 171; p. 212.
"Iron-Kola." (For a Non-Alcoholic Beverage.) E. Widger. No. 15,610; Mar. 28; Gaz. vol. 164; p. 973.
"Izumi." (For Canned Goods, Especially Canned Crab-Meat.) North American Mercantile Co. No. 15,692; Apr. 25; Gaz. vol. 165; p. 970.
"Jackson Mills Ginghams." (For Ginghams.) Franklin Manufacturing Co. No. 15,946; Oct. 3; Gaz. vol. 171; p. 212.
"Jacob Wirth & Co. Inc. Special Bottling." (For Bottled Beer.) Jacob Wirth & Co. Inc. No. 15,582; Mar. 7; Gaz. vol. 164; p. 248.
"Jacquinet." (For Wine.) Chas. Jacquin et Cie. No. 15,492; Jan. 31; Gaz. vol. 162; p. 1182.
"Japanese Furniture Polish." (For Furniture-Polish.) World Polish Manufacturing Company. No. 15,451; Jan. 10; Gaz. vol. 162; p. 535.
"Japanese Tomatoe Wraps." (For Wrapping-Paper.) L. Wellhouse. No. 15,647; Apr. 11; Gaz. vol. 165; p. 472.
"Jim Dandy." (For Candy-Coated Popcorn and Nuts.) D. Yankauer. No. 15,939; Oct. 3; Gaz. vol. 171; p. 212.
"John Hall." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,500; Feb. 7; Gaz. vol. 163; p. 229.
"John Purdue." (For Cigars.) Schmidt & Co. No. 15,449; Jan. 10; Gaz. vol. 162; p. 535.
"Johnston's Yerba Santa Cough Syrup." (For Cough Remedy.) W. W. Johnston. No. 15,919; Sept. 26; Gaz. vol. 170; p. 926.
"Jose Garcia." (For Cigars.) Alvarez & Garcia. No. 15,702; May 2; Gaz. vol. 166; p. 249.
"Juan Benito." (For Cigars.) American Lithographic Company. No. 15,686; Apr. 25; Gaz. vol. 165; p. 970.
"Just One More." (For Candy.) Giachini Candy Company. No. 15,927; Sept. 26; Gaz. vol. 170; p. 926.
"Kaucasian Lamb Fabric." (For Plush of a Peculiar Finish.) The Hind & Harrison Plush Co. No. 15,749; May 23; Gaz. vol. 166; p. 984.
"Keiser's Handkerchiefs." (For Handkerchiefs.) James R. Keiser, Inc. No. 15,930; Sept. 26; Gaz. vol. 170; p. 926.
"Kellogg Toasted Corn Flakes." (For Cereal Breakfast Foods.) Kellogg Toasted Corn Flake Co. No. 16,038; Nov. 21; Gaz. vol. 172; p. 820.
"Kenwash." (For Shirts.) J. Miller Sons & Co. No. 15,602; Mar. 14; Gaz. vol. 164; p. 505.
"Kil-Em-Al." (For a Liquid Preparation for Destroying Insects.) G. Watman. No. 15,765; June 6; Gaz. vol. 167; p. 239.
"Kildair Irish Cleanser." (For a Washing or Cleansing Powder or Compound.) Irish Cleanser Company. No. 15,771; June 13; Gaz. vol. 167; p. 512.
"Killarney Brand." (For Flour.) E. C. Hard. No. 15,872; Sept. 5; Gaz. vol. 170; p. 242.
"Kim-Bar." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,959; Oct. 10; Gaz. vol. 171; p. 480.
"Kissimmee." (For Hosiery.) Richmond Hosiery Mills. No. 15,911; Sept. 12; Gaz. vol. 170; p. 480.
"Ko-We-Ba Chocolates." (For Chocolate Candy.) Gillen & Boney. No. 16,056; Nov. 28; Gaz. vol. 172; p. 1087.
"Kolorfast." (For Cloth.) Mount Hope Finishing Company. No. 15,621; Mar. 28; Gaz. vol. 164; p. 973.
"Korn Tips and Kernels." (For Canned Sugar-Corn.) H. P. Strasbaugh. No. 16,000; Oct. 31; Gaz. vol. 171; p. 1256.
"Kummin-Ost." (For Cheese.) C. A. Carlson. No. 16,073; Dec. 19; Gaz. vol. 173; p. 861.
"La Astorgana." (For Biscuits.) Anger Baking Company. No. 16,036; Nov. 21; Gaz. vol. 172; p. 820.
"La Borgona." (For Cigars.) Julius Bien Company. No. 15,722; May 9; Gaz. vol. 166; p. 510.
"La Cresta." (For Cigars.) American Lithographic Company. No. 15,683; Apr. 25; Gaz. vol. 165; p. 970.
"La Irma." (For Cigars.) C. B. Henschel Mfg. Co. No. 16,091; Dec. 26; Gaz. vol. 173; p. 1078.
"La Lunda." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,502; Feb. 7; Gaz. vol. 163; p. 229.
"La Menorca." (For Cigars.) Julius Bien Company. No. 15,725; May 9; Gaz. vol. 166; p. 510.
"La Mureda." (For Cigars.) A. C. Henschel & Company. No. 16,005; Nov. 7; Gaz. vol. 172; p. 258.
"La Porte Ten Cigars." (For Cigars.) J. Wolf. No. 15,549; Feb. 21; Gaz. vol. 163; p. 726.
"La Reina Imperial." (For Cigars.) The Moehle Lithographic Company. No. 15,915; Sept. 26; Gaz. vol. 170; p. 926.
"La Rosa De Armas." (For Cigars.) American Lithographic Company. No. 15,684; Apr. 25; Gaz. vol. 165; p. 970.
"La Tosina." (For Cigars.) Julius Bien Company. No. 15,718; May 9; Gaz. vol. 166; p. 510.
"La Vertura." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,933; Oct. 3; Gaz. vol. 171; p. 212.
"La Vogue Cloth." (For Cotton-Cloth Piece Goods.) Franklin Manufacturing Co. No. 15,629; Apr. 4; Gaz. vol. 165; p. 239.
"Lactafal." (For Stock Feed.) W. X. Sudduth. No. 15,941; Oct. 3; Gaz. vol. 171; p. 212.
"Ladies' Friend." (For a Remedy.) C. J. Whealton. No. 16,045; Nov. 21; Gaz. vol. 172; p. 820.
"Lady Broadway." (For Hosiery.) Richmond Hosiery Mills. No. 15,901; Sept. 12; Gaz. vol. 170; p. 480.
"Lady Leslie." (For Cigars.) The Moehle Lithographic Co. No. 15,757; June 6; Gaz. vol. 167; p. 239.
"Lady Speed." (For Cigars.) Schmidt & Co. No. 15,603; Mar. 21; Gaz. vol. 164; p. 738.
"Las Perlas." (For Cigars.) Toffaleti Gonzalez Co. No. 15,740; May 23; Gaz. vol. 166; p. 984.
"Lassen's Perfection." (For Wheat-Flour.) Kansas Milling Company. No. 15,859; Aug. 22; Gaz. vol. 169; p. 942.
"Laughing-Dandelion." (For Medicine.) J. L. De Zeabault. No. 15,660; Apr. 18; Gaz. vol. 165; p. 728.
"Laxomeal." (For Food Preparations.) The Franklin Food Co. No. 15,836; Aug. 8; Gaz. vol. 169; p. 448.
"Lazzine." (For Medicine.) C. Napoli. No. 15,554; Feb. 21; Gaz. vol. 163; p. 726.
"Le Roy." (For Machine-Twist.) Sea Island Thread Co. No. 15,547; Feb. 14; Gaz. vol. 163; p. 480.
"Leib's German Dyspepsia Tonic." (For Tonic.) W. J. Leib. No. 15,590; Mar. 7; Gaz. vol. 164; p. 248.
"Li Falco." (For Ladies' Knit Union and Two-Piece Suits.) Little Falls Manufacturing Company. No. 15,456; Jan. 17; Gaz. vol. 162; p. 781.
"Liberty Pure Rye Bread." (For Bread.) S. Frieszel and L. Kalisman. No. 16,085; Dec. 26; Gaz. vol. 173; p. 1078.
"Lifebuoy." (For Wheat-Flour.) Greenup Milling Co. No. 15,604; Mar. 21; Gaz. vol. 164; p. 738.
"Lilac Hygienic Washing Liquid." (For Washing Liquid.) The Lilac Company. No. 15,661; Apr. 18; Gaz. vol. 165; p. 728.
"Lipton's Tea." (For Tea.) T. J. Lipton. No. 16,094; Dec. 26; Gaz. vol. 173; p. 1078.
"Liquid Gall Remedy." (For Medical Compound.) Bucklin's Liquid Gall Remedy Company. No. 15,555; Feb. 21; Gaz. vol. 163; p. 726.
"Liquore Pietro Micca." (For Cordials.) D. Boggio. No. 15,969; Oct. 10; Gaz. vol. 171; p. 480.
"Liquore Streghina." (For Cordials.) Rinaldi & Grossi. No. 15,863; Aug. 29; Gaz. vol. 169; p. 1183.
"Little Lord." (For Cigars.) A. C. Henschel & Co. No. 16,070; Dec. 19; Gaz. vol. 173; p. 861.
"Little Red Riding Hood." (For Candies.) The Blue Ribbon Candy Co. No. 15,926; Sept. 26; Gaz. vol. 170; p. 926.
"Livoracto." (For Liver Medicine.) The Lewis Bear Drug Company. No. 15,971; Oct. 10; Gaz. vol. 171; p. 480.
"Louis Original French Salad Dressing." (For Salads.) L. Brown. No. 15,691; Apr. 25; Gaz. vol. 165; p. 970.
"Lowney's Assorted Chocolates." (For Chocolates.) The Walter M. Lowney Company. Nos. 15,774–6; June 20; Gaz. vol. 167; p. 761.
"Lucky John." (For Cigars.) The Moehle Lithographic Co. No. 15,758; June 6; Gaz. vol. 167; p. 239.
"Luis Montez." (For Cigars.) The Moehle Lithographic Company. No. 15,916; Sept. 26; Gaz. vol. 170; p. 926.
"Malt Tea." (For a Malt-Tea Beverage.) Estate of Henry Weinhard Dec'd. No. 15,741; May 23; Gaz. vol. 166; p. 984.
"Manifacto." (For Cigars.) Schmidt & Co. No. 15,576; Mar. 7; Gaz. vol. 164; p. 248.
"Maquereaux de Dieppe Marinés." (For Mackerel.) E. Chemin. No. 16,082; Dec. 26; Gaz. vol. 173; p. 1078.
"Marathon." (For Toilet-Paper.) The John Hoberg Co. No. 15,698; Apr. 25; Gaz. vol. 165; p. 970.
"Margaret Penn Candies." (For Candies.) J. B. Trainor. No. 15,535; Feb. 14; Gaz. vol. 163; p. 480.
"Mascot Fountain Pen." (For Fountain-Pens.) J. Saadi. No. 15,558; Feb. 21; Gaz. vol. 163; p. 726.
"Massapoag." (For Rye Whisky.) W. Albrecht. No. 16,030; Nov. 21; Gaz. vol. 172; p. 820.
"Maxim's." (For Beer.) The Salt Lake City Brewing Co. No. 16,007; Nov. 7; Gaz. vol. 172; p. 258.
"Melody Belle." (For Cigars.) Schmidt & Co. No. 15,578; Mar. 7; Gaz. vol. 164; p. 248.
"Mennen's Cream Dentifrice." (For Cream-Dentifrice.) Gerhard Mennen Chemical Company. Nos. 15,883–4; Sept. 12; Gaz. vol. 170; p. 480.
"Mennen's Shaving Cream." (For Shaving-Cream.) Gerhard Mennen Chemical Company. Nos. 15,885–6; Sept. 12; Gaz. vol. 170; p. 480.
"Merry Christmas Happy New Year." (For Cigars.) No. 16,075; Dec. 19; Gaz. vol. 173; p. 861.
"Meteor." (For Invisible Eyes.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,618; Mar. 28; Gaz. vol. 164; p. 973.
"Mexican Hot." (For a Non-Alcoholic Temperance Beverage.) J. A. Brenner. No. 15,784; June 27; Gaz. vol. 167; p. 980.

Alphabetical list of labels—Continued.

"Mexicos Best." (For Chili-Con-Carne.) T. D. Zaharis and C. N. Kargiotis. No. 15,974; Oct. 17; Gaz. vol. 171; p. 742.
"Mi Estima." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,937; Oct. 3; Gaz. vol. 171; p. 212.
"Miador." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,936; Oct. 3; Gaz. vol. 171; p. 212.
"Milady of Quality." (For Chocolates.) American Candy Co. No. 15,689; Apr. 25; Gaz. vol. 165; p. 970.
"Milena." (For Cigars.) H. B. Grauley. No. 15,510; Feb. 7; Gaz. vol. 163; p. 229.
"Minnehaha." (For Hosiery.) Richmond Hosiery Mills. No. 15,894; Sept. 12; Gaz. vol. 170; p. 480.
"Minnesota." (For Hosiery.) Richmond Hosiery Mills. No. 15,898; Sept. 12; Gaz. vol. 170; p. 480.
"Miss Manhattan." (For Hosiery.) Richmond Hosiery Mills. No. 15,907; Sept. 12; Gaz. vol. 170; p. 480.
"Mohawk Valley Brand." (For Limburger-Style Cheese.) J. Karlen. No. 15,839; Aug. 8; Gaz. vol. 169; p. 448.
"Money Worth Fabrics." (For Cotton-Cloth Piece Goods.) Franklin Manufacturing Co. No. 15,448; Jan. 3; Gaz. vol. 162; p. 267.
"Morning-Glory." (For Flour.) Johnson & Bryden. No. 15,821; July 18; Gaz. vol. 168; p. 786.
"Morning Glory Soap does it." (For Soap.) J. F. Bradley Company. No. 16,022; Nov. 14; Gaz. vol. 172; p. 547.
"Morse's Chocolates." (For Chocolate Candy.) A. G. Morse Co. No. 16,071; Dec. 19; Gaz. vol. 173; p. 861.
"Morso." (For Cigars.) Morso Cigar Company. No. 15,782; June 27; Gaz. vol. 167; p. 980.
"Mother Goose." (For Sardines.) Wyman Canning Co. No. 15,657; Apr. 18; Gaz. vol. 165; p. 728.
"Mother Mell's Mixture." (For a Medicine.) R. A. Wood-Seys. No. 15,744; May 23; Gaz. vol. 166; p. 984.
"Muhlhauser Export Beer." (For Muhlhauser-Style Export Beer.) Hammond Brewing Company. No. 16,035; Nov. 21; Gaz. vol. 172; p. 820.
"Mule Hide Whip." (For Buggy-Whips.) The Ohio Whip Co. No. 15,541; Feb. 14; Gaz. vol. 163; p. 480.
"Multiplex Extracts." (For Flavoring Extracts.) The Liquid Carbonic Company. No. 15,690; Apr. 25; Gaz. vol. 165; p. 970.
"Mye Ladys." (For Stationery.) The Beggs Brothers Company. No. 16,058; Dec. 12; Gaz. vol. 173; p. 582.
"Myers' Egyptian Catarrh Remedy." (For a Catarrh Remedy.) R. H. Myers. No. 16,095; Dec. 26; Gaz. vol. 173; p. 1078.
"Myrlite Jim-Dandy Cleaner." (For Cleaners.) The Myrlite Company of America. No. 15,805; June 27; Gaz. vol. 167; p. 980.
"Napoleon." (For Men's Garters.) Peerless Garter Manufacturing Co. No. 15,546; Feb. 14; Gaz. vol. 163; p. 480.
"Narro-Nek." (For Hair-Pins.) National Novelty Company. No. 15,523; Feb. 7; Gaz. vol. 163; p. 229.
"Natapoff & Kaptowsky." (For Bread.) Natapoff & Kaptowsky. No. 15,640; Apr. 11; Gaz. vol. 165; p. 472.
"National Sweets." (For Candy.) L. W. Gertenrich. No. 15,534; Feb. 14; Gaz. vol. 163; p. 480.
"Nation's Pride, Carnation Tissue." (For Tissue-Paper.) R. Knowlan. No. 15,696; Apr. 25; Gaz. vol. 165; p. 970.
"Nelco Vanishing Cream." (For Cold-Cream.) New England Laboratory Company. No. 16,011; Nov. 7; Gaz. vol. 172; p. 258.
"New Idea." (For Hosiery.) W. G. Starry. No. 15,572; Feb. 28; Gaz. vol. 163; p. 976.
"1915." (For Prunes.) Pacific Fruit Product Co. No. 15,856; Aug. 22; Gaz. vol. 169; p. 942.
"1900 Cleaner." (For Cleaning-Powder.) Binghamton Soap Works. No. 15,888; Sept. 12; Gaz. vol. 170; p. 480.
"No. 43." (For Harmonicas.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,664; Apr. 18; Gaz. vol. 165; p. 728.
"No. 65." (For Harmonicas.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,670; Apr. 18; Gaz. vol. 165; p. 728.
"Nonpariel High Pressure Blocks." (For High-Pressure Blocks.) Armstrong Cork Co. No. 16,076; Dec. 26; Gaz. vol. 173; p. 1078.
"Nonpariel High Pressure Covering." (For High-Pressure Coverings.) Armstrong Cork Co. No. 16,077; Dec. 26; Gaz. vol. 173; p. 1078.
"Noonday." (For Cigars.) Chas. Specht Noonday Cigar Co. No. 15,563; Feb. 28; Gaz. vol. 163; p. 976.
"North Pole Bread." (For Bread.) Mirror Printing Company. No. 15,532; Feb. 14; Gaz. vol. 163; p. 480.
"Nu-Bread Flour." (For Flour.) The Chatfield & Woods Sack Company. No. 16,061; Dec. 12; Gaz. vol. 173; p. 582.
"Nurito." (For a Chemical Prescription.) H. Rebhan. No. 15,645; Apr. 11; Gaz. vol. 165; p. 472.
"Nutrol." (For Dietetic Food.) R. B. & C. E. Westcott. No. 16,040; Nov. 21; Gaz. vol. 172; p. 820.
"O K." (For Cigars.) Toffaleti Gonzalez Co. No. 15,717; May 9; Gaz. vol. 166; p. 510.
"Oil-Lax." (For Castor-Oil.) C. W. F. Cramer. No. 15,979; Oct. 24; Gaz. vol. 171; p. 982.
"Okay." (For Coffee.) The Franklin Coffee Co. No. 15,864; Aug. 29; Gaz. vol. 169; p. 1183.
"Old Colony Chief Ale." (For Ale.) Old Colony Breweries Co. No. 15,880; Sept. 12; Gaz. vol. 170; p. 480.
"Old Colony Club Lager." (For Beer.) Old Colony Breweries Co. No. 15,853; Aug. 22; Gaz. vol. 169; p. 942.
"Old Fashion Beer." (For Beer.) Billings Brewing Company. No. 15,638; Apr. 11; Gaz. vol. 165; p. 472.
"Old German Lager." (For Beer.) The Salt Lake City Brewing Co. No. 16,006; Nov. 7; Gaz. vol. 172; p. 258.
"Old Kentucky Natural Leaf." (For Leaf-Tobacco.) A. L. Jones. No. 15,623; Apr. 4; Gaz. vol. 165; p. 239.
"Old Pure Culture Lager." (For Beer.) The American Brewing Company of Pekin. No. 15,862; Aug. 29; Gaz. vol. 169; p. 1183.
"Old Standard Whiskey." (For Blended Whisky.) Jacob & McGann. No. 16,028; Nov. 21; Gaz. vol. 172; p. 820.
"Old Time." (For Lager-Beer.) Forest Park Brewing Co. No. 15,773; June 20; Gaz. vol. 167; p. 761.
"Opera Band." (For Harmonicas.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,667; Apr. 18; Gaz. vol. 165; p. 728.
"Opera Band Wilhelm Thie." (For Harmonicas.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,665; Apr. 18; Gaz. vol. 165; p. 728.
"Orange Flower." (For Cigars.) H. B. Grauley. No. 15,509; Feb. 7; Gaz. vol. 163; p. 229.
"Original Lania Flannel." (For Flannels.) Colonial Manufacturing Company. No. 16,002; Oct. 31; Gaz. vol. 171; p. 1256.
"Oro De Habana." (For Cigars.) American Lithographic Company. No. 15,685; Apr. 25; Gaz. vol. 165; p. 970.
"Ottoman Silk." (For Machine-Twist.) Sea Island Thread Co. No. 15,676; Apr. 18; Gaz. vol. 165; p. 728.
"Ourown Cleanser." (For Cleansing Compounds.) Fitzpatrick Bros. No. 15,778; June 20; Gaz. vol. 167; p. 761.
"Over-All." (For Machine-Twist.) Sea Island Thread Co. No. 15,673; Apr. 18; Gaz. vol. 165; p. 728.
"Pace Maker." (For Toilet-Paper.) The John Hoberg Co. No. 16,024; Nov. 14; Gaz. vol. 172; p. 547.
"Pallister." (For Cigars.) Pallister Bros. No. 15,704; May 2; Gaz. vol. 166; p. 249.
"Palmer's Alpean Chocolates." (For Chocolates.) Palmer & Co. No. 15,707; May 2; Gaz. vol. 166; p. 249.
"Pān Gōw." (For a Remedy.) G. O. Wellman, Jr. No. 15,981; Oct. 24; Gaz. vol. 171; p. 982.
"Panama-California Exposition." (For Cigars.) A. Sensenbrenner. No. 16,026; Nov. 21; Gaz. vol. 172; p. 820.
"Parr's Menthol Compound." (For Parr's Menthol Compound.) J. A. Parr. No. 15,815; July 11; Gaz. vol. 168; p. 523.
"Partonka." (For Tonic.) A. A. Lustig. No. 15,873; Sept. 5; Gaz. vol. 170; p. 242.
"Pearl-Kepe." (For Tooth-Wash.) C. L. Shelley. No. 16,012; Nov. 7; Gaz. vol. 172; p. 258.
"Pebeco Tooth Paste." (For Tooth-Paste.) P. Beiersdorf & Co. No. 15,762; June 6; Gaz. vol. 167; p. 239.
"Peerless Elastic Paint." (For Elastic Paint.) The Peerless Elastic Paint Co. No. 15,928; Sept. 26; Gaz vol. 170; p. 926.
"Pendergast." (For Rye Whisky.) W. Albrecht. No. 16,031; Nov. 21; Gaz. vol. 172; p. 820.
"Pera Meda." (For Cigars.) M. Goldman. Nos. 15,808–9; July 11; Gaz. vol. 168; p. 523.
"Perfection." (For Fruit-Sugar.) Perfection Pulverizing Mills. No. 15,655; Apr. 18; Gaz. vol. 165; p. 728.
"Perfection." (For Butter.) A. M. Smith. No. 16,037; Nov. 21; Gaz. vol. 172; p. 820.
"Perry's Pen-Dra-He-La Salve." (For Salve.) B. A. Perry. No. 15,842; Aug. 8; Gaz. vol. 169; p. 448.
"Perseverence Brings Success—Result: Crown Blueing." (For Bluing.) Brown and Frank. No. 15,595; Mar. 7; Gaz. vol. 164; p. 248.
"Phoenix." (For Stuffed Dates.) Persian Stuffed Date Co. No. 15,488; Jan. 24; Gaz. vol. 162; p. 997.
"Pickett's Plastic Plug Fence Brand." (For Toothache Remedy.) The Pickett Plastic Plug Co. No. 15,520; Feb. 7; Gaz. vol. 163; p. 229.
"Pilgrim Brand." (For Sterilized Unsweetened Evaporated Milk.) Continental Condensed Milk Co. No. 15,531; Feb. 14; Gaz. vol. 163; p. 480.
"Pink Star." (For Cigars.) A. C. Henschel & Co. No. 15,498; Feb. 7; Gaz. vol. 163; p. 229.
"Pioneer Brand." (For Oranges.) The Pioneer Fruit Co. No. 15,566; Feb. 28; Gaz. vol. 163; p. 976.
"Pioneer Special Brand." (For Oranges.) The Pioneer Fruit Co. No. 15,565; Feb. 28; Gaz. vol. 163; p. 976.
"Pocahontas." (For Hosiery.) Richmond Hosiery Mills. No. 15,909; Sept. 12; Gaz. vol. 170; p. 480.
"Poinsetta." (For Shampoo-Powder.) P. J. Hannah. No. 16,086; Dec. 26; Gaz. vol. 173; p. 1078.

Alphabetical list of labels—Continued.

"Point Setter." (For Canned Corn.) Mason, Sanborn & Ramsdell Co. No. 15,841; Aug. 8; Gaz. vol. 169; p. 448.
"Polisheen." (For Furniture-Polish.) Polisheen Manufacturing Co. No. 15,876; Sept. 5; Gaz. vol. 170; p. 242.
"Poster 5¢ Cigar." (For Cigars.) Surety Cigar Co. No. 15,938; Oct. 3; Gaz. vol. 171; p. 212.
"Premier Pure." (For Bottled Whisky.) C. J. Quinn. No. 16,008; Nov. 7; Gaz. vol. 172; p. 258.
"Pride of the Adirondacks." (For Maple-Syrup.) Adirondack Maple Co. No. 15,654; Apr. 18; Gaz. vol. 165; p. 728.
"Princess." (For Flour.) Johnson & Bryden. No. 15,822; July 18; Gaz. vol. 168; p. 786.
"Priscilla." (For Hosiery.) Richmond Hosiery Mills. No. 15,906; Sept. 12; Gaz. vol. 170; p. 480.
"Prize Medal." (For Salmon.) Henry W. Peabody & Co. No. 15,964; Oct. 10; Gaz. vol. 171; p. 480.
"Protos." (For Dark Lager-Beer.) Protobrewing Company. No. 15,580; Mar. 7; Gaz. vol. 164; p. 248.
"Protos." (For Light Lager-Beer.) Protobrewing Company. No. 15,581; Mar. 7; Gaz. vol. 164; p. 248.
"Prudential." (For Chocolates and Bonbons.) C. G. Guth. No. 15,583; Mar. 7; Gaz. vol. 164; p. 248.
"Pugh's Cough Compound." (For Cough Medicine.) H. Pugh. No. 15,644; Apr. 11; Gaz. vol. 165; p. 472.
"Pugh's Peerless Pipes." (For Pipes.) Pugh Pipe Company. No. 15,781; June 20; Gaz. vol. 167; p. 761.
"Pure Fibre Paper Bags." (For Paper Bags.) Crown Columbia Pulp & Paper Co. No. 15,525; Feb. 7; Gaz. vol. 163; p. 229.
"Pure Old Blended Piedmont Valley Mountain Rye Whiskey." (For Whisky.) J. J. McDonough. No. 15,834; Aug. 8; Gaz. vol. 169; p. 448.
"Pyrene." (For Syringes Containing Fire-Extinguishing Compound.) Pyrene Manufacturing Co. No. 16,016; Nov. 7; Gaz. vol. 172; p. 258.
"Quail Brand Cane and Maple Syrup." (For a Compound of Cane and Maple Syrup.) The Keyes Manufacturing Company. No. 15,489; Jan. 24; Gaz. vol. 162; p. 997.
"Queen Anne Brand Maine Style Sugar Corn." (For Sugar-Corn.) Easton Packing Co. No. 15,642; Apr. 11; Gaz. vol. 165; p. 472.
"Quenchy." (For Vichy Lemonade.) V. de Messimy. No. 15,818; July 18; Gaz. vol. 168; p. 786.
"Quick Repair." (For Repair Kits.) R. B. Calcutt. No. 15,780; June 20; Gaz. vol. 167; p. 761.
"Quick Repair." (For Tires and Repair Kits.) R. B. Calcutt. No. 15,830; Aug. 1; Gaz. vol. 169; p. 202.
"Radigan Rheumatic Remedy." (For a Medicine.) A. D. McIntyre. No. 15,659; Apr. 18; Gaz. vol. 165; p. 728.
"Ralston Wheat Food." (For Cereal Food.) Ralston Purina Company. No. 15,961; Oct. 10; Gaz. vol. 171; p. 480.
"Ramiro." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,932; Oct. 3; Gaz. vol. 171; p. 212.
"Real." (For Sweeping-Brooms.) L. Taub. No. 15,649; Apr. 11; Gaz. vol. 165; p. 472.
"Real Cough Drops." (For Cough-Drops.) Croft & Allen Company. No. 15,626; Apr. 4; Gaz. vol. 165; p. 239.
"Red Label." (For Metal-Polishing Compound.) R. E. Desmond. No. 16,021; Nov. 14; Gaz. vol. 172; p. 547.
"Red Wing." (For Hosiery.) Richmond Hosiery Mills. No. 15,896; Sept. 12; Gaz. vol. 170; p. 480.
"Resorzinox Ointment." (For Ointment for Cutaneous Affections and for Cuts, Bruises, &c.) Towns & James. No. 16,042; Nov. 21; Gaz. vol. 172; p. 820.
"Rest Shu." (For Shoes.) C. H. & H. L. Cotton. No. 16,053; Nov. 21; Gaz. vol. 172; p. 820.
"Rhinelander." (For Drinking-Water.) T. W. Barnes. No. 15,750; May 30; Gaz. vol. 166; p. 1280.
"Rhinelander." (For Drinking-Water.) T. W. Barnes. No. 15,787; June 27; Gaz. vol. 167; p. 980.
"Richmond Rose." (For Cigars.) E. H. Feltman. No. 15,879; Sept. 12; Gaz. vol. 170; p. 480.
"Riegel's." (For Paper.) Warren Manufacturing Company. No. 15,490; Jan. 24; Gaz. vol. 162; p. 997.
"Rile Bros. Private Stock." (For Beer.) Rile Bros. No. 15,625; Apr. 4; Gaz. vol. 165; p. 239.
"Rio Nuevo." (For Cigars.) Julius Bien Company. No. 15,720; May 9; Gaz. vol. 166; p. 510.
"Robert's Hair Tonic." (For Hair-Tonic.) N. F. Robert. No. 15,923; Sept. 26; Gaz. vol. 170; p. 926.
"Rochon." (For Roach-Powder.) M. T. Vallon. No. 15,731; May 9; Gaz. vol. 166; p. 510.
"Rockproof." (For Hosiery.) Richmond Hosiery Mills. No. 15,913; Sept. 12; Gaz. vol. 170; p. 480.
"Rosary Chocolates." (For Chocolates.) Mueller-Keller Candy Co. No. 15,564; Feb. 28; Gaz. vol. 163; p. 976.
"Rosary Chocolates." (For Chocolates.) Mueller-Keller Candy Co. No. 15,567; Feb. 28; Gaz. vol. 163; p. 976.
"Rose Corn Salve." (For Corn-Salve.) E. W. Ringrose. No. 15,844; Aug. 8; Gaz. vol. 169; p. 448.
"Rose Portland Cement." (For Portland Cement.) Ajax Portland Cement Co. No. 15,528; Feb. 7; Gaz. vol. 163; p. 229.
"Roth & Roth's." (For Cordials.) S. Roth. No. 15,783; June 27; Gaz. vol. 167; p. 980.
"Royal." (For Beer.) W. Standish. No. 15,992; Oct. 31; Gaz. vol. 171; p. 1256.
"Royal." (For Medicated Cough-Drops.) Royal Candy Co. No. 16,001; Oct. 31; Gaz. vol. 171; p. 1256.
"Royal German Zwieback." (For Zwieback.) G. Mueller. No. 15,858; Aug. 22; Gaz. vol. 169; p. 942.
"Royal Quality." (For Peaches.) The John H. Fitch Co. No. 15,693; Apr. 25; Gaz. vol. 165; p. 970.
"Royal Toasted Corn Flakes." (For Corn-Flakes.) C. S. Voigt. No. 15,445; Jan. 3; Gaz. vol. 162; p. 267.
"Rubber Putty." (For Putty.) A. De Clairmont. No. 15,559; Feb. 21; Gaz. vol. 163; p. 726.
"Ruth." (For Cigars.) The Moehle Lithographic Co. No. 15,507; Feb. 7; Gaz. vol. 163; p. 229.
"Saginaw Champion." (For Cigars.) Pennant Cigar Factory. No. 15,828; July 25; Gaz. vol. 168; p. 1031.
"Salvator." (For Harmonicas.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,668; Apr. 18; Gaz. vol. 165; p. 728.
"Samuel's Phospho Pepsin Papain." (For Proprietary Medicines.) J. S. Atkins. No. 16,078; Dec. 26; Gaz. vol. 173; p. 1078.
"Sani-Towls." (For Paper Towels.) Scott Paper Company. No. 15,631; Apr. 4; Gaz. vol. 165; p. 239.
"Sanitoin." (For Ointment.) C. Seiberth. No. 15,980; Oct. 24; Gaz. vol. 171; p. 982.
"Sanitorio Papyrine Towails." (For Paper Towels.) The John Hoberg Co. No. 16,092; Dec. 26; Gaz. vol. 173; p. 1078.
"Santa Rosa." (For Cigars.) The Moehle Lithographic Co. No. 15,506; Feb. 7; Gaz. vol. 163; p. 229.
"Santora." (For Cigars.) H. C. Henschel & Co. No. 15,561; Feb. 28; Gaz. vol. 163; p. 976.
"Sarine." (For Medicine.) C. Napoli. No. 15,607; Mar. 21; Gaz. vol. 164; p. 738.
"Saticoy Walnuts." (For English Walnuts.) Saticoy Walnut Growers Association. No. 16,066; Dec. 12; Gaz. vol. 173; p. 582.
"Schenck's Conditional Horse Powder." (For Condition-Powders for Horses.) J. E. Schenck. No. 16,096; Dec. 26; Gaz. vol. 173; p. 1078.
"Schlitz Atlas Cigar." (For Cigars.) S. Ojserkis Co. No. 15,917; Sept. 26; Gaz. vol. 170; p. 926.
"Schmid's Dental Cream." (For Dental Cream.) O. F. Schmid Chemical Co. Nos. 15,769–70; June 13; Gaz. vol. 167; p. 512.
"School Day Chocolates." (For Chocolate Candies.) Gillen & Boney. No. 16,065; Dec. 12; Gaz. vol. 173; p. 582.
"Scot Tissue." (For Paper Towels.) Scott Paper Company. No. 15,570; Feb. 28; Gaz. vol. 163; p. 976.
"Scot Tissue Towels." (For Paper Towels.) Scott Paper Company. No. 15,672; Apr. 18; Gaz. vol. 165; p. 728.
"Seaconnet Superior Sheeting." (For Sheetings.) Seaconnet Mills. No. 15,755; May 30; Gaz. vol. 166; p. 1280.
"Senate Bouquet Brandy." (For Brandy.) Charente Importation Company. No. 15,651; Apr. 18; Gaz. vol. 165; p. 728.
"Service." (For Refrigerators and Ice-Boxes.) Traverse City Refrigerator Co. No. 15,803; June 27; Gaz. vol. 167; p. 980.
"1776 Brand." (For Condensed Milk.) Continental Condensed Milk Co. No. 15,751; May 30; Gaz. vol. 166; p. 1280.
"77." (For Cotton-Seed Oil.) The Southern Cotton Oil Company. No. 16,067; Dec. 12; Gaz. vol. 173; p. 582.
"Sewanee." (For Hosiery.) Richmond Hosiery Mills. No. 15,908; Sept. 12; Gaz. vol. 170; p. 480.
"Shedreign." (For Rain-Coats.) M. Lesser. No. 15,827; July 18; Gaz. vol. 168; p. 786.
"Showanda." (For Cigars.) Julius Bien Company. No. 15,724; May 9; Gaz. vol. 166; p. 510.
"Sierra." (For Beer.) W. Standish. No. 15,993; Oct. 31; Gaz. vol. 171; p. 1256.
"Silver Teen." (For Printed and Plain Fabrics.) Daas & Teen. No. 16,064; Dec. 12; Gaz. vol. 173; p. 582.
"Sir Loraine." (For Cigars.) Julius Bien Company. No. 15,723; May 9; Gaz. vol. 166; p. 510.
"Smilax." (For Paper Bags.) J. H. Friar. No. 15,543; Feb. 14; Gaz. vol. 163; p. 480.
"Smoke Cigars." (For Cigars.) American Lithographic Company. No. 16,003; Nov. 7; Gaz. vol. 172; p. 258.
"Sno-Tissue." (For Toilet-Paper.) Scott Paper Company. No. 15,754; May 30; Gaz. vol. 166; p. 1280.
"Sno-Tissue." (For Toilet-Paper.) Scott Paper Company. No. 16,051; Nov. 21; Gaz. vol. 172; p. 820.
"Society King." (For Cigars.) L. S. Boucher. No. 15,562; Feb. 28; Gaz. vol. 163; p. 976.
"Southern Linen." (For Writing-Tablets.) Montag Brothers. No. 15,779; June 20; Gaz. vol. 167; p. 761.
"Spedden's Pride." (For Canned Tomatoes.) Spedden Packing Co. No. 15,855; Aug. 22; Gaz. vol. 169; p. 942.
"St. James's Oil." (For St. James's Oil.) St. James's Oil Company. No. 15,920; Sept. 26; Gaz. vol. 170; p. 926.
"St-Onez." (For Cigars.) M. L. Stone. No. 15,734; May 16; Gaz. vol. 166; p. 750.

Alphabetical list of labels—Continued.

"Star." (For Peanut Cakes.) W. E. De Bevoise. No. 15,813; July 11; Gaz. vol. 168; p. 523.
"Star Play." (For Cigars.) The Moehle Lithographic Co. No. 15,759; June 6; Gaz. vol. 167; p. 239.
"Star Quality." (For Cigars.) A. C. Henschel & Company. No. 15,989; Oct. 31; Gaz. vol. 171; p. 1256.
"Starr's." (For a Remedy for Corns, Bunions, Calli, and Warts.) C. Scheuerl. No. 15,982; Oct. 24; Gaz. vol. 171; p. 982.
"Statement." (For Cigars.) American Lithographic Company. No. 15,573; Mar. 7; Gaz. vol. 164; p. 248.
"Stone Hill." (For Sour-Mash Whisky.) Stark Distillery Co. No. 15,512; Feb. 7; Gaz. vol. 163; p. 229.
"Stone Hill." (For Whisky.) Stark Distillery Co. No. 15,639; Apr. 11; Gaz. vol. 165; p. 472.
"Sunbeam." (For Cigars.) The Key West Cigar Factory. No. 15,807; July 4; Gaz. vol. 168; p. 247.
"Sunday-Eve." (For Chocolates and Bonbons.) C. G. Guth. No. 15,612; Mar. 28; Gaz. vol. 164; p. 973.
"Surprise." (For Peanuts.) W. F. Smith Co. No. 15,968; Oct. 10; Gaz. vol. 171; p. 480.
"Sursene Powder." (For Antiseptic Powder.) Century Chemical Company. No. 15,593; Mar. 7; Gaz. vol. 164; p. 248.
"Sutherland's Best." (For Coffee). C. R. Sutherland. No. 15,653; Apr. 18; Gaz. vol. 165; p. 728.
"Sweet Heart Gum." (For Chewing-Gum.) Huyler's. Nos. 15,586–8; Mar. 7; Gaz. vol. 164; p. 248.
"Sweetest Yet." (For Oranges.) A. J. Hamilton. No. 15,857; Aug. 22; Gaz. vol. 169; p. 942.
"Tablet Asperol Compound." (For an Asperol Compound.) Adale Chemical Company. No. 15,746; May 23; Gaz. vol. 166; p. 984.
"Tallahassee." (For Hosiery.) Richmond Hosiery Mills. No. 15,895; Sept. 12; Gaz. vol. 170; p. 480.
"Tate Spring Natural Mineral Water." (For Mineral Water.) Tate Spring Company. No. 15,788; June 27; Gaz. vol. 167; p. 980.
"Te-Pee." (For Bourbon Whisky.) W. Albrecht. No. 16,029; Nov. 21; Gaz. vol. 172; p. 820.
"Tess Mads." (For Card Games.) J. T. Todd. No. 15,847; Aug. 8; Gaz. vol. 169; p. 448.
"Testbest Binder." (For Sausage-Flour.) B. Levi & Co. No. 15,712; May 2; Gaz. vol. 166; p. 249.
"The American Family Laundry Bluing." (For Laundry Bluing.) J. P. and J. Hadesman. No. 15,984; Oct. 24; Gaz. vol. 171; p. 982.
"The Best Cigar." (For Cigars.) Schmidt & Co. No. 16,098; Dec. 26; Gaz. vol. 173; p. 1078.
"The Big Noise." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,861; Aug. 29; Gaz. vol. 169; p. 1183.
"The Big White Egg." (For Eggs.) E. M. Clark. No. 16,062; Dec. 12; Gaz. vol. 173; p. 582.
"The Boston." (For Candies.) P. A. Minakakis. No. 15,814; July 11; Gaz. vol. 168; p. 523.
"The Cottage Breakfast Food." (For Breakfast Food.) The Waseca Co-Operative Milling Co. No. 15,819; July 18; Gaz. vol. 168; p. 786.
"The Diskette Base Ball Game." (For a Base-Ball Game.) Diskette Baseball Company. No. 15,715; May 2; Gaz. vol. 166; p. 249.
"The Dwarf Band." (For Harmonicas.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,671; Apr. 18; Gaz. vol. 165; p. 728.
"The Famous Royal Ribbon Ginger Ale." (For Ginger-Ale.) Charleston Pepsi Cola Bottling Co. No. 15,833; Aug. 8; Gaz. vol. 169; p. 448.
"The Favorite Cigar." (For Cigars.) Schmidt & Co. No. 16,100; Dec. 26; Gaz. vol. 173; p. 1078.
"The 500 Hame." (For Hames.) U. S. Hame Company. No. 15,944; Oct. 3; Gaz. vol. 171; p. 212.
"The 501 Hame." (For Hames.) U. S. Hame Company. No. 15,945; Oct. 3; Gaz. vol. 171; p. 212.
"The Globe Ink & Mucilage Co." (For Mucilage.) The Globe Ink & Mucilage Co. No. 15,714; May 2; Gaz. vol. 166; p. 249.
"The Goody Shop." (For Confections.) C. Takis. No. 15,789; June 27; Gaz. vol. 167; p. 980.
"The Graduator Shoe." (For Shoes.) M. H. Burke. No. 15,457; Jan. 17; Gaz. vol. 162; p. 781.
"The Lone Star Hame." (For Hames.) U. S. Hame Company. No. 16,068; Dec. 12; Gaz. vol. 173; p. 582.
"The Manhattan Handkerchief." (For Handkerchiefs.) Heller & Long. No. 15,701; Apr. 25; Gaz. vol. 165; p. 970.
"The Marechal Niel Face Lotion." (For Face-Lotion.) The Marechal Niel Co. No. 15,592; Mar. 7; Gaz. vol. 164; p. 248.
"The Mineral Wax Carbon." (For Carbon-Paper.) A. M. Heck. No. 16,052; Nov. 21; Gaz. vol. 172; p. 820.
"The Natural Process." (For Carbonated Beverages.) D. De Lara Fibel. No. 15,606; Mar. 21; Gaz. vol. 164; p. 738.
"The Paris Handkerchief." (For Handkerchiefs.) Heller & Long. No. 15,545; Feb. 14; Gaz. vol. 163; p. 480.
"The Perfect Ink." (For Ink.) The Perfect Ink Company. No 15,850; Aug. 15; Gaz. vol. 169; p. 700.
"The Rex All Metal Roller." (For Curtain-Rollers.) The Curtain Supply Co. No. 15,526; Feb. 7; Gaz. vol. 163; p. 229.
"The Rose Brand." (For Clam-Chowder.) The Nissequogue Canning Co. Inc. No. 15,584; Mar. 7; Gaz. vol. 164; p. 248.
"The Rose Brand." (For Soft-Shell Pickled Clams.) The Nissequogue Canning Co. Inc. No. 15,585; Mar. 7; Gaz. vol. 164; p. 248.
"The Sanitary Cigar." (For Cigars.) The Sanitary Cigar Co. No. 15,511; Feb. 7; Gaz. vol. 163; p. 229.
"The Select Cigar." (For Cigars.) Schmidt & Co. No. 16,102; Dec. 26; Gaz. vol. 173; p. 1078.
"The 'Semy-Madye' Girl." (For Partly-Made Garments.) Semy-Mayde Garment Co. No. 15,890; Sept. 12; Gaz. vol. 170; p. 480.
"The 'Semy-Mayde' Girl." (For Partly-Made Garments.) Semy-Mayde Garment Co. Nos. 15,947–58; Oct. 3; Gaz. vol. 171; p. 212.
"The Toy Village." (For Toys.) B. R. Gilmour & Co. No. 15,542; Feb. 14; Gaz. vol. 163; p. 480.
"The Weave That Will Wash Well And Wear." (For Cotton Piece Goods.) Barnaby Manufacturing Co. Nos. 15,495–7; Jan. 31; Gaz. vol. 162; p. 1182.
"The Weave that Will Wash Well and Wear." (For Cotton Piece Goods.) Barnaby Manufacturing Co. No. 15,548; Feb. 14; Gaz. vol. 163; p. 480.
"The World." (For Machine-Twist.) Sea Island Thread Company. No. 15,677; Apr. 18; Gaz. vol. 165; p. 728.
"The World." (For Toilet-Paper.) The John Hoberg Co. No. 16,023; Nov. 14; Gaz. vol. 172; p. 547.
"The Write-O-Graph." (For a Machine and Instructions for Teaching Penmanship.) H. Forbush. No. 15,633; Apr. 4; Gaz. vol. 165; p. 239.
"Three Feathers." (For Brandy.) Joseph Krieg-Fink Company. No. 15,851; Aug. 22; Gaz. vol. 169; p. 942.
"Tidy Toilet Tissue." (For Rolls of Toilet-Paper.) C. C. White. No. 15,929; Sept. 26; Gaz. vol. 170; p. 926.
"Tomahawk." (For Hosiery.) Richmond Hosiery Mills. No. 15,902; Sept. 12; Gaz. vol. 170; p. 480.
"Top Sail." (For Rye Whisky.) W. Albrecht. No. 16,034; Nov. 21; Gaz. vol. 172; p. 820.
"Topnotcher." (For Hosiery.) Richmond Hosiery Mills. No. 15,893; Sept. 12; Gaz. vol. 170; p. 480.
"Train Order." (For Cigars.) C. B. Henschel Mfg. Co. No. 15,634; Apr. 11; Gaz. vol. 165; p. 472.
"Trisom." (For Egg-Noodles.) C. F. Mueller Co. No. 15,962; Oct. 10; Gaz. vol. 171; p. 480.
"Tropical de Cuba." (For Cigars.) Schmidt & Co. No. 16,099; Dec. 26; Gaz. vol. 173; p. 1078.
"True Blue." (For Confections.) M. Gutman & Son. No. 15,820; July 18; Gaz. vol. 168; p. 786.
"Twin Quaker Bread." (For Bread.) W. C. Davis. No. 15,627; Apr. 4; Gaz. vol. 165; p. 239.
"Two In One Tonic." (For Chill-Tonic Medicine.) Two In One Tonic Co. No. 15,764; June 6; Gaz. vol. 167; p. 239.
"U-Need-It." (For a Lotion for Sweating Feet.) H. J. Hughes. No. 15,617; Mar. 28; Gaz. vol. 164; p. 973.
"Ulita Cream." (For a Skin-Lotion.) M. A. Boswell. No. 15,777; June 20; Gaz. vol. 167; p. 761.
"Under Lock." (For Rye Whisky.) W. Albrecht. No. 16,032; Nov. 21; Gaz. vol. 172; p. 820.
"Unguentum Resorzinox." (For an Ointment for Cutaneous Affections.) Towns & James. No. 16,041; Nov. 21; Gaz. vol. 172; p. 820.
"Valley Forge Brand." (For Sweetened Condensed Milk.) Continental Condensed Milk Co. No. 16,009; Nov. 7; Gaz. vol. 172; p. 258.
"Velvet Finish." (For Carbon-Paper.) L. & M. Alexander & Co. No. 15,524; Feb. 7; Gaz. vol. 163; p. 229.
"Velvet Grip Boston Pad Garter." (For Hose-Supporters.) George Frost Company. No. 15,452; Jan. 10; Gaz. vol. 162; p. 535.
"Velvo." (For Cigars.) San Telmo Cigar Mfg. Co. No. 15,848; Aug. 15; Gaz. vol. 169; p. 700.
"Very Old Senate Brandy." (For Brandy.) Charente Importation Company. No. 15,650; Apr. 18; Gaz. vol. 165; p. 728.
"Villa Corona." (For Cigars.) A. C. Henschel & Company. No. 15,766; June 13; Gaz. vol. 167; p. 512.
"Wa-Pa-To." (For Cigars.) A. C. Henschel & Co. No. 15,454; Jan. 17; Gaz. vol. 162; p. 781.
"Waldorf Towels." (For Paper Towels.) Scott Paper Company. No. 15,630; Apr. 4; Gaz. vol. 165; p. 239.
"Walker's Cough Drops." (For Cough-Drops.) A. F. Walker. No. 16,069; Dec. 12; Gaz. vol. 173; p. 582.
"Ward-Owsley Cherry Fruit Bar." (For Cherry Fruit Bars.) Ward-Owsley Co. No. 15,517; Feb. 7; Gaz. vol. 163; p. 229.
"Washington Crisps." (For Prepared Cereals.) R. Crosett. No. 15,837; Aug. 8; Gaz. vol. 169; p. 448.
"Washtella." (For Cigars.) Washtella Cigar Co. No. 15,636; Apr. 11; Gaz. vol. 165; p. 472.
"Washwel." (For Shirts.) J. Miller Sons & Co. No. 15,600; Mar. 14; Gaz. vol. 164; p. 505.
"Waxalite." (For a Sweeping Compound.) J. C. F. Snyder & Sons. No. 15,594; Mar. 7; Gaz. vol. 164; p. 248.
"Weiss Perfection Metal Polish." (For Metal-Polish.) C. H. Weiss. No. 15,983; Oct. 24; Gaz. vol. 171; p. 982.

Alphabetical list of labels—Continued.

"West Coast Brand." (For Tomatoes.) The Klein Fruit Company. No. 15,656; Apr. 18; Gaz. vol. 165; p. 728.
"Wheeling Big Havana." (For Cigars and Stogies.) W. F. Bartholomew. No. 15,991; Oct. 31; Gaz. vol. 171; p. 1256.
"While I Live I'll Crow." (For Metal-Polish.) Boekell and Clark No. 16,015; Nov. 7; Gaz. vol. 172; p. 258.
"White Rose." (For Paper Bags.) J. H. Friar. No. 15,700; Apr. 25; Gaz. vol. 165; p. 970.
"White Rose Transparent Glycerine Soap." (For Toilet Soap.) Mülhens & Kropff. No. 16,074; Dec. 19; Gaz. vol. 173; p. 861.
"White Star." (For Cigars.) E. E. Holipeter. No. 15,760; June 6; Gaz. vol. 167; p. 239.
"Whole Wheat Flour Willobank Farm." (For Whole-Wheat Flour.) Eastgate Bros. No. 15,658; Apr. 18; Gaz. vol. 165; p. 728.
"Wild Rose." (For Cigars.) Schmidt & Co. No. 16,097; Dec. 26; Gaz. vol. 173; p. 1078.
"Wilhelm Thie." (For Harmonicas.) William Prym Gesellschaft mit beschränkter Haftung. No. 15,804; June 27; Gaz. vol. 167; p. 980.
"Wilwash." (For Shirts.) J. Miller Sons & Co. No. 15,601; Mar. 14; Gaz. vol. 164; p. 505.
"Wizard." (For Hosiery.) Richmond Hosiery Mills. No. 15,912; Sept. 12; Gaz. vol. 170; p. 480.
"Wm. Fredrick's Commercial Club." (For Cigars.) W. Fredrick. No. 15,609; Mar. 28; Gaz. vol. 164; p. 973.
"Woodlac." (For Liquid Furniture-Polish.) Portland Dental Mfg. Co. No. 15,556; Feb. 21; Gaz. vol. 163; p. 726.
"Woodward's Pure Sugar Stick Candy." (For Stick-Candy.) John G. Woodward & Co. No. 15,613; Mar. 28; Gaz. vol. 164; p. 973.
"Yagers Top Notch Bread." (For Bread.) P. W. Yager. No. 16,020; Nov. 14; Gaz. vol. 172; p. 547.
"Yakima Apples." (For Apples.) Richey & Gilbert Company. No. 15,614; Mar. 28; Gaz. vol. 164; p. 973.
"Yale." (For Union Underwear.) Yale Knitting Co. No. 15,632; Apr. 4; Gaz. vol. 165; p. 239.
"Yama-Yama Candy." (For Candy.) The Central Lithograph Co. No. 15,835; Aug. 8; Gaz. vol. 169; p. 448.
"Yankee Doodle Junior." (For Boys' and Children's Shoes.) Richardson Shoe Company. No. 15,739; May 16; Gaz. vol. 166; p. 750.
"Yellow Aster." (For Paper Bags.) J. H. Friar. No. 15,699; Apr. 25; Gaz. vol 165; p. 970.
"Yellow Jessamine." (For Toilet-Paper.) The John Hoberg Co. No. 15,697; Apr. 25; Gaz. vol. 165; p. 970.
"Zee-Nut." (For Candy.) Collins, McCarthy Candy Co. No. 15,728; May 9; Gaz. vol. 166; p. 510.
"Zenith." (For Stove and Nickel Polish.) M. W. Smith. No. 15,569; Feb. 28; Gaz. vol. 163; p. 976.
"Zenobia." (For Coffee.) C. R. Sutherland. No. 15,652; Apr. 18; Gaz. vol. 165; p. 728.
"Zephyr Powder Blower." (For Zephyr Powder-Blower.) E. Jackson. No. 15,662; Apr. 18; Gaz. vol. 165; p. 728.
"A Bird In Every Shell." (For Guns and Ammunition.) Remington Arms-Union Metallic Cartridge Co. Nos. 2,821–2; Aug. 15; Gaz. vol. 169; p. 700.
"A Case Of Good Judgement." (For Beer.) Peter Schoenhofen Brewing Co. No. 2,873; Oct. 31; Gaz. vol. 171; p. 1256.
"A Fair Exchange." (For Whisky.) Bernheim Distilling Company. No. 2,913; Dec. 19; Gaz. vol. 173; p. 861.
"A Message To You." (For Coal.) Carnegie Fuel Company. No. 2,881; Nov. 7; Gaz. vol. 172; p. 258.
"A New Arrival At Palm Beach." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,686; Jan. 24; Gaz. vol. 162; p. 997.
"A Perfect Whole Wheat Food." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,760; May 23; Gaz. vol. 166; p. 984.
"A Shine In Every Drop." (For Stove-Polish, Metal-Polish, and Iron-Enamel.) The Black Silk Stove Polish Works. No. 2,897; Nov. 21; Gaz. vol. 172; p. 821.
"A Sign of Good Living." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,791; July 4; Gaz. vol. 168; p. 247.
"A Still Life of Hams, Bologna and Bacon." (For Smoked Hams, Bolognas, and Bacons.) R. Schnibbe. No. 2,842; Sept. 26; Gaz. vol. 170; p. 926.
"A Still Life of Smoked Fish." (For Smoked Fish.) R. Schnibbe. No. 2,841; Sept. 26; Gaz. vol. 170; p. 926.
"A Stylish Reflection." (For Hooks and Eyes.) Peet Bros. No. 2,900; Nov. 21; Gaz. vol. 172; p. 821.
"Aberfoyle Fadeless Fabrics." (For Cotton, Silk, and Mixed Cotton and Silk Fabrics.) Galey & Lord. No. 2,763; May 23; Gaz. vol. 166; p. 984.
"Absorbine Before and After." (For Horse-Liniment.) W. F. Young. No. 2,789; June 27; Gaz. vol. 167; p. 980.
"Advance." (For Wild-Cherry and Hoarhound Drops.) Advance Novelty Candy Mfg. Co. No. 2,863; Oct. 17; Gaz. vol. 171; p. 742.
"After All, No Copies Like Carter's—The Stenographer's Ideal." (For Type-Writer Ribbons and Carbon-Paper.) The Carter's Ink Company. No. 2,677; Jan. 3; Gaz. vol. 162; p. 267.
"Agency for Pla-Mate Shoes." (For Boots and Shoes.) Williams, Hoyt & Co. No. 2,843; Sept. 26; Gaz. vol. 170; p. 926.
"All Pencils Look Alike To The Roneo Pencil Sharpener." (For Pencil-Sharpeners.) Roneo Company. No. 2,831; Sept. 5; Gaz. vol. 170; p. 242.
"Always In Front." (For Straight Whisky.) C. Berry & Co. Nos. 2,680–1; Jan. 17; Gaz. vol. 162; p. 781.
"Anticipation." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,796; July 18; Gaz. vol. 168; p. 786.
"Arithstyle." (For Computing-Machines.) Arithstyle Company. No. 2,906; Dec. 12; Gaz. vol. 173; p. 582.
"Arrow Notch Collar." (For Arrow Collars.) Cluett, Peabody & Company. No. 2,774; May 30; Gaz. vol. 166; p. 1280.
"Arrow Shirts." (For Shirts.) Cluett, Peabody & Co. No. 2,868; Oct. 24; Gaz. vol. 171; p. 982.
"As Trade Conditions Are Now." (For Men's Knitted Underwear.) Roxford Knitting Company. No. 2,794; July 11; Gaz. vol. 168; p. 523.
"At Play." (For Packages Containing Catnip.) Dr. A. C. Daniels. No. 2,878; Nov. 7; Gaz. vol. 172; p. 258.
"August Roxford Man." (For Knitted Underwear for Men and Boys.) Roxford Knitting Co. No. 2,901; Nov. 21; Gaz. vol. 172; p. 821.
"Autoduct." (For Flexible Conduit-Tubing for Electrical Purposes.) American Circular Loom Co. No. 2,749; May 16; Gaz. vol. 166; p. 750.
"Base Ball Players." (For Base-Ball Goods.) A. J. Reach Company. No. 2,692; Feb. 7; Gaz. vol. 163; p. 229.
"Best Tan." (For Hides and Furs.) Globe Tanning & Manufacturing Co. No. 2,924; Dec. 26; Gaz. vol. 173; p. 1078.
"Betsy Ross 3 an Arrow Collar for Women." (For Arrow Collars.) Cluett, Peabody & Company. No. 2,766; May 23; Gaz. vol. 166; p. 984.
"Blue Ribbon Raisins." (For Raisins.) Fresno Home Packing Co. No. 2,688; Feb. 7; Gaz. vol. 163; p. 229.
"Boot Silk Hosiery." (For Hosiery.) T. E. Brown. No. 2,701; Feb. 21; Gaz. vol. 163; p. 726.
"Borden's Eagle Brand." (For Condensed Milk.) Borden's Condensed Milk Company. No. 2,783; June 20; Gaz. vol. 167; p. 761.
"Borden's Evaporated Milk Peerless Brand." (For Evaporated Milk.) Edwards & Deutsch Lithographing Company. No. 2,846; Oct. 3; Gaz. vol. 171; p. 212.
"Borden's Evaporated Milk Peerless Brand." (For Evaporated Milk.) Edwards & Deutsch Lithographing Company. Nos. 2,861–2; Oct. 17; Gaz. vol. 171; p. 742.
"Borden's Malted Milk." (For Malted Milk.) Borden's Condensed Milk Company. No. 2,727; Apr. 11; Gaz. vol. 165; p. 472.
"California No. 1." (For Burial-Caskets.) Richmond Casket Company. No. 2,696; Feb. 14; Gaz. vol. 163; p. 480.
"Campbell's Soups." (For Campbell's Soups.) The Joseph Campbell Company. No. 2,751; May 23; Gaz. vol. 166; p. 984.
"Campbell's Soups." (For Soups.) Joseph Campbell Company. Nos. 2,806–11; Aug. 8; Gaz. vol. 169; p. 448.
"Campbell's Soups." (For Campbell's Soups.) Joseph Campbell Company. Nos. 2,833–8; Sept. 12; Gaz. vol. 170; p. 480.
"Case & Martin's Connecticut Pies." (For Pies.) Case & Martin Co. No. 2,923; Dec. 26; Gaz. vol. 173; p. 1078.
"Cat's Paw Non-Slip Cushion Rubber Heels." (For Cushion-Heels.) Foster Rubber Company. No. 2,849; Oct. 3; Gaz. vol. 171; p. 212.
"Cel-So Removes the Blues." (For Headache Remedy.) Celery Soda Company. No. 2,703; Feb. 28; Gaz. vol. 163; p. 976.
"Certificate of Guarantee." (For Spectacle Eyeglass Frames or Mountings.) Geo. S. Johnston Co. No. 2,724; Mar. 28; Gaz. vol. 164; p. 973.
"Cherrie Mintz." (For Cough-Drops and Throat-Ease.) A. E. Moseley. No. 2,685; Jan. 17; Gaz. vol. 162; p. 781.
"Chicago Portland Cement." (For Portland Cement.) Chicago Portland Cement Company. No. 2,732; Apr. 11; Gaz. vol. 165; p. 472.
"Chrysanthemum." (For Cork-Tip Cigarettes.) American Tobacco Company. No. 2,870; Oct. 31; Gaz. vol. 171; p. 1256.
"Clarified Purus." (For Drinking-Water.) E. F. Lovejoy. No. 2,804; Aug. 8; Gaz. vol. 169; p. 448.
"Coal That's All Coal." (For Coals.) North Western Fuel Company. No. 2,782; June 13; Gaz. vol. 167; p. 512.
"Coffee." (For Coffee.) The Bour Company. No. 2,827; Sept. 5; Gaz. vol. 170; p. 242.
"'Collar Hug' Clothes." (For Clothing.) H. J. Cahn. No. 2,869; Oct. 24; Gaz. vol. 171; p. 982.
"Colorado No. 10." (For Burial-Caskets.) Richmond Casket Company. No. 2,693; Feb. 14; Gaz. vol. 163; p. 480.
"Coming, Sir." (For Kümmel.) J. B. Martin. No. 2,738; May 2; Gaz. vol. 166; p. 249.

Alphabetical list of labels—Continued.

"Country Life In America." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,816; Aug. 15; Gaz. vol. 169; p. 700.

"Cranberry Sauce." (For Cranberry Sauce.) H. E. Cook and C. S. Burgess. No. 2,800; July 18; Gaz. vol. 168; p. 786.

"Crudol." (For a Hair-Tonic.) American Lithographic Company. No. 2,890; Nov. 21; Gaz. vol. 172; p. 821.

"Dat's Mah Boy." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,915; Dec. 19; Gaz. vol. 173; p. 861.

"Deep Spring Whiskey." (For Deep Spring Whisky.) J. W. Kelly & Co. No. 2,876; Nov. 7; Gaz. vol. 172; p. 258.

"Derbyshire Lathe." (For Lathes.) F. W. Derbyshire. No. 2,734; Apr. 18; Gaz. vol. 165; p. 728.

"Donchester." (For Cluett Shirts.) Cluett, Peabody & Company. No. 2,773; May 30; Gaz. vol. 166; p. 1280.

"Donchester an evening Shirt." (For Cluett Dress-Shirts.) Cluett, Peabody & Company. No. 2,884; Nov. 7; Gaz. vol. 172; p. 258.

"Dorset the New Summer Arrow Collars." (For Arrow Collars.) Cluett, Peabody & Company. No. 2,764; May 23; Gaz. vol. 166; p. 984.

"Drummer Boy." (For Stockings.) E. M. Townsend & Co. No. 2,729; Apr. 11; Gaz. vol. 165; p. 472.

"E-Z-Lax." (For Laxative Candy.) Advance Chemical Co. No. 2,793; July 11; Gaz. vol. 168; p. 523.

"Edelweiss Beer." (For Beer.) The Peter Schoenhofen Brewing Co. No. 2,823; Aug. 29; Gaz. vol. 169; p. 1183.

"Extra Fine Quality." (For Flour.) The Cleveland Milling Co. No. 2,723; Mar. 28; Gaz. vol. 164; p. 973.

"Fall & Winter Adler Rochester Clothes." (For Clothes.) L. Adler Bros. & Co. No. 2,851; Oct. 3; Gaz. vol. 171; p. 212.

"Ferro China Bernag." (For Ferro China Bernag.) W. P. Bernagozzi. No. 2,803; Aug. 8; Gaz. vol. 169; p. 448.

"Fit for Everybody." (For Gloves.) J. Adler & Co. No. 2,850; Oct. 3; Gaz. vol. 171; p. 212.
"Florentine Liquid Shampoo." (For Liquid Shampoo.) A. B. Wrisley Co. No. 2,812; Aug. 8; Gaz. vol. 169; p. 448.
"For a Starter." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,865; Oct. 24; Gaz. vol. 171; p. 982.
"From Ripened Grains of the Western Plains." (For Wheat-Flour.) Listman Mill Company. No. 2,854; Oct. 10; Gaz. vol. 171; p. 480.
"Front View of The Casey-Hedges Patented Improved Steel Casing with Combustion Chamber and Spark Catcher." (For Boiler-Settings.) The Casey-Hedges Company. No. 2,708; Mar. 7; Gaz. vol. 164; p. 248.
"G M C." (For Automobiles.) General Motors Company. No. 2,815; Aug. 8; Gaz. vol. 169; p. 448.
"G Washington Coffee, Made In The Cup." (For Coffee.) W. H. Leonard. No. 2.687; Feb. 7; Gaz. vol. 163; p. 229.
"'Glenroy' an Arrow Collar for Summer." (For Arrow Collars.) Cluett, Peabody & Company. No. 2,765; May 23; Gaz. vol. 166; p. 984.
"Golden Pink Granite." (For Granite.) A. Malnati. No. 2.742; May 2; Gaz. vol. 166; p. 249.
"Goody, It's St. Charles!" (For Evaporated Milk.) St. Charles Condensing Co. No. 2,699; Feb. 21; Gaz. vol. 163; p. 726.
"Grace Morrissey." (For Face-Powder.) Ben Levy Company. No. 2,922; Dec. 26; Gaz. vol. 173; p. 1078.
"Gyroheel." (For Heels for Shoes.) E. James. No. 2,898; Dec. 12; Gaz. vol. 173; p. 582.
"Harry G. Dodd & Co., Canned Goods, Dried Fruits, Beans." (For Canned Goods, Dried Fruits and Beans in Sacks.) H. G. Dodd. No. 2,746; May 9; Gaz. vol. 166; p. 510.
"Hay's Hair-Health." (For a Dressing and Invigorant for the Hair.) Philo Hay Specialties Co. No. 2,910; Dec. 12; Gaz. vol. 173; p. 582.
"Here's Good Health." (For Beer.) The Monumental Brewing Co. No. 2,710; Mar. 21; Gaz. vol. 164; p. 738.
"Hot Water Instantly." (For Water-Heaters.) I. J. O'Malley. No. 2,867; Oct. 24; Gaz. vol. 171; p. 982.
"Household Assortment of Pearl Buttons." (For Pearl Buttons.) The Pearl Waste Co. No. 2,678; Jan. 3; Gaz. vol. 162; p. 267.
"How Are You Meeting." (For Men's Knitted Underwear.) Roxford Knitting Company. No. 2,795; July 11; Gaz. vol. 168; p. 523.
"Hygienic Comb Cleaner." (For a Comb-Cleaner.) J. M. Pease. No. 2.813; Aug. 8; Gaz. vol. 169; p. 448.
"Imitation, The Sincerest Flattery." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,709; Mar. 14; Gaz. vol. 164; p. 505.
"Indiana No. 2." (For Burial-Caskets.) Richmond Casket Company. No. 2,695; Feb. 14; Gaz. vol. 163; p. 480.
"Ivy." (For Corsets.) Corset H Company. No. 2,792; July 4; Gaz. vol. 168; p. 247.
"Johnson's Foot Soap." (For Johnson's Foot-Soap.) The Metropolitan Printing Company. No. 2,788; June 27; Gaz. vol. 167; p. 980.
"Jones's Flyer." (For Overalls.) Lincoln Overall & Shirt Co. No. 2,750; May 16; Gaz. vol. 166; p. 750.
"Kickapoo Worm Killer." (For Worm-Killer.) American Lithographic Company. No. 2,829; Sept. 5; Gaz. vol. 170; p. 242.
"Kirch's Kräuter Bitters." (For Tonics.) E. Louis. No. 2,689; Feb. 7; Gaz. vol. 163; p. 229.
"Kirch's Kräuter Wein." (For Medicine.) E. Louis. No. 2,690; Feb. 7; Gaz. vol. 163; p. 229.
"Kitchen Bouquet." (For Flavoring and Coloring.) The Palisade Manufacturing Company. No. 2,847; Oct. 3; Gaz. vol. 171; p. 212.
"Knocks." (For an Ointment.) Dennis Manufacturing Company. No. 2.776; June 6; Gaz. vol. 167; p. 239.
"La Touraine The Perfect Coffee." (For Coffee.) W. S. Quinby Company. No. 2,864; Oct. 24; Gaz. vol. 171; p. 982.
"Life-Savers." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,755; May 23; Gaz. vol. 166; p. 984.
"Magic Yeast Makes Good Bread." (For Magic Yeast.) The Northwestern Yeast Company. No. 2,733; Apr. 18; Gaz. vol. 165; p. 728.
"Mamma says I'm her Cream of Wheat man." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,839; Sept. 12; Gaz. vol. 170; p. 480.
"Manhattan French Bouquet Borated Talcum." (For Talcum Powder.) M. Friedman. No. 2,747; May 9; Gaz. vol. 166; p. 510.
"Mexican Hot." (For a Non-Alcoholic Temperance Beverage.) J. A. Brenner. No. 2,785; June 27; Gaz. vol. 167; p. 980.
"Milwaukee Harvesting Machines." (For Harvesting-Machines.) The Hayes Lithographing Co. No. 2,697; Feb. 14; Gaz. vol. 163; p. 480.
"Miss Z. Andess." (For Embroideries.) Zahner and Schiess and Company. No. 2,802; July 18; Gaz. vol. 168; p. 786.
"Motor Girl." (For Coca-Cola.) The Coca-Cola Bottling Co. No. 2,705; Mar. 7; Gaz. vol. 164; p. 248.
"Neapolitan Ice Cream." (For Ice-Cream.) The W. F. Powers Company. No. 2,797; July 18; Gaz. vol. 168; p. 786.
"'Needle-Molded' Clothes." (For Clothing.) The Globe Tailoring Co. No. 2,730; Apr. 11; Gaz. vol. 165; p. 472.
"New York Garter." (For Garters.) C. J. Haley & Co. No. 2,728; Apr. 11; Gaz. vol. 165; p. 472.
"On Guard!" (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,754; May 23; Gaz. vol. 166; p. 984.
"Onion Seeds." (For Onion-Seeds.) D. M. Ferry & Co. No. 2,907; Dec. 12; Gaz. vol. 173; p. 582.
"Oregon No. 1." (For Burial-Caskets.) Richmond Casket Company. No. 2,694; Feb. 14; Gaz. vol. 163; p. 480.
"Original Pompeian Beauty." (For Massage-Cream.) The Pompeian Mfg. Co. No. 2,866; Oct. 24; Gaz. vol. 171; p. 982.
"Osborne Harvesting Machines and Farming Implements." (For Harvesting-Machines and Farming Implements.) The Hayes Lithographing Co. No. 2,698; Feb. 14; Gaz. vol. 163; p. 480.
"Our Two-Million-Dollar Kitchen." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,786; June 27; Gaz. vol. 167; p. 980.
"Out of Sight." (For The Chase Piano.) W. C. Hamilton. No. 2,731; Apr. 11; Gaz. vol. 165; p. 472.
"Palmer 'Success' Treatment." (For Remedies for Skin Diseases.) The Morgan Drug Co. No. 2,891; Nov. 21; Gaz. vol. 172; p. 821.
"Palmers 'Salt-Water' Soap." (For Salt-Water Soap.) The Morgan Drug Co. No. 2,896; Nov. 21; Gaz. vol. 172; p. 821.
"Penny A Pound Profit Candy." (For Candy.) G. W. Loft. No. 2,775; June 6; Gaz. vol. 167; p. 239.
"Persil." (For Persil Oxygen Washing Compound.) The Roessler & Hasslacher Chem. Co. No. 2,781; June 13; Gaz. vol. 167; p. 512.
"Persil Oxygen Washing Compound." (For Washing Compound.) The Roessler & Hasslacher Chemical Co. No. 2,736; Apr. 25; Gaz. vol. 165; p. 970.
"Peters Shells." (For Shot-Shells.) The Peters Cartridge Company. No. 2,853; Oct. 3; Gaz. vol. 171; p. 212.
"Peters Shot-Shell." (For Shells.) The Peters Cartridge Company. No. 2,909; Dec. 12; Gaz. vol. 173; p. 582.
"Pipe Protector and Tobacco Saver." (For Smoking-Pipes.) G. Reich. No. 2,712; Mar. 21; Gaz. vol. 164; p. 738.
"Plan for a Season." (For Men's Knitted Underwear.) Roxford Knitting Company. No. 2,770; May 23; Gaz. vol. 166; p. 984.
"Plexo Toilet Preparations for The Woman Who Cares." (For Plexo Toilet Preparations.) Plexo Preparations Inc. Nos. 2,779–80; June 13; Gaz. vol. 167; p. 512.
"Poppy Brand Cotton-Seed Oil." (For Cotton-Seed Oil.) W. Y. Lawton. No. 2,752; May 23; Gaz. vol. 166; p. 984.
"Post Toasties." (For Cereal Food Products.) The Tablet and Ticket Co. No. 2,711; Mar. 21; Gaz. vol. 164; p. 738.
"Postum—'There's a Reason.'" (For a Beverage.) Postum Cereal Co. No. 2,714; Mar. 28; Gaz. vol. 164; p. 973.
"Pratts, Poultry Regulator." (For Poultry-Regulator.) The Pratt Food Company. No. 2,889; Nov. 21; Gaz. vol. 172; p. 821.
"Products That Have Made Kentucky Famous." (For Iodinized Emulsion and Creosotonic.) The Dawson Pharmacal Co. No. 2,700; Feb. 21; Gaz. vol. 163; p. 726.
"Pull the Ring and Read." (For the "Automatic" Wash-line-Post.) The National Equipment Co. No. 2,898; Nov. 21; Gaz. vol. 172; p. 821.
"Pyramid Fly Catcher." (For Adhesive Fly-Catching Devices.) Louis Dejonge & Co. Nos. 2,817–20; Aug. 15; Gaz. vol. 169; p. 700.
"Pyramid Fly Catchers." (For Adhesive Fly-Catching Devices.) Louis Dejonge & Co. No. 2,824; Aug. 29; Gaz. vol. 169; p. 1183.

Alphabetical list of prints—Continued.

"Rain-Tight Rubber." (For Roofing.) Maurice O'Meara Co. No. 2,882; Nov. 7; Gaz. vol. 172; p. 258.
"Real Cake Ice Cream Cones." (For Real-Cake Ice-Cream Cones.) W. A. Witt. No. 2,798; July 18; Gaz. vol. 168; p. 786.
"Rear View of The Casey-Hedges Patented Improved Steel Casing with Combustion Chamber and Spark Catcher (For Boiler-Settings.) The Casey-Hedges Company. No. 2,707; Mar. 7; Gaz. vol. 164; p. 248.
"Red Band Girl." (For Candy.) D. Auerbach & Sons. No. 2,702; Feb. 28; Gaz. vol. 163; p. 976.
"Remington Arms-Union Metallic Cartridge Co." (For Guns and Ammunition.) M. H. Dodge. No. 2,855; Oct. 10; Gaz. vol. 171; p. 480.
"Rexall." (For Hair-Tonic.) United Drug Company. No. 2,921; Dec. 19; Gaz. vol. 173; p. 861.
"Robins Belt Conveyors." (For Belt Conveyers.) Robins Conveying Belt Company. No. 2,844; Sept. 26; Gaz. vol. 170; p. 926.
"Rose." (For Cork-Tip Cigarettes.) American Tobacco Company. No. 2,872; Oct. 31; Gaz. vol. 171; p. 1256.
"Rose Gas Irons." (For Gas-Irons.) L. Rosenbaum. No. 2,904; Nov. 28; Gaz. vol. 172; p. 1087.
"Rub It On The Sore Spot." (For Ointment.) The Morgan Drug Co. No. 2,895; Nov. 21; Gaz. vol. 172; p. 821.
"S. & P. Color Tablets." (For Color-Tablets.) Stickney & Poor Spice Co. No. 2,830; Sept. 5; Gaz. vol. 170; p. 242.
"Saluting the Veterans." (For Straight Scotch Whisky.) Strauss & Co. No. 2,725; Apr. 11; Gaz. vol. 165; p. 472.
"Sanistove." (For Stoves and Ranges.) The Sanitary Stove Mfg. Co. No. 2,826; Aug. 29; Gaz. vol. 169; p. 1183.
"Sapolin." (For Enamels, Stains, and Gildings.) Gerstendorfer Bros. Nos. 2,885–6; Nov. 14; Gaz. vol. 172; p. 547.
"Satisfaction." (For Flour.) Standard Milling Co. No. 2,704; Mar. 7; Gaz. vol. 164; p. 248.
"September Roxford Man." (For Knitted Underwear for Men and Boys.) Roxford Knitting Co. No. 2,902; Nov. 21; Gaz. vol. 172; p. 821.
"Shirley President Braces." (For Suspenders.) C. A. Edgarton Mfg. Co. No. 2,768; May 23; Gaz. vol. 166; p. 984.
"Shirley President Suspenders, A." (For Suspenders.) C. A. Edgarton Mfg. Company. No. 2,769; May 23; Gaz. vol. 166; p. 984.
"Shirley President Suspenders, B." (For Suspenders.) C. A. Edgarton Mfg. Co. No. 2,767; May 23; Gaz. vol. 166; p. 984.
"Shredded Wheat with Baked Apple and Cream." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,784; June 20; Gaz. vol. 167; p. 761.
"Shredded Wheat With Bananas." (For Shredded Wheat.) The Shredded Wheat Company. No. 2,684; Jan. 17; Gaz. vol. 162; p. 781.
"Shredded Wheat with Bananas." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,757; May 23; Gaz. vol. 166; p. 484.
"Shredded Wheat with Hot Milk." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,758; May 23; Gaz. vol. 166; p. 984.
"Shredded Wheat With Milk Or Cream." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,778; June 13; Gaz. vol. 167; p. 512.
"Shredded Wheat With Peaches." (For Shredded Wheat.) The Shredded Wheat Company. No. 2,682; Jan. 17; Gaz. vol. 162; p. 781.
"Shredded Wheat with Peaches." (For Shredded-Wheat Biscuit.) The Shreaded Wheat Company. No. 2,759; May 23; Gaz. vol. 166; p. 984.
"Shredded Wheat With Strawberries." (For Shredded Wheat.) The Shredded Wheat Company. No. 2,683; Jan. 17; Gaz. vol. 162; p. 781.
"Shredded Wheat With Strawberries." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,777; June 13; Gaz. vol. 167; p. 512.
"Sloan's Liniment." (For Liniment.) E. S. Sloan. Nos. 2,916–19; Dec. 19; Gaz. vol. 173; p. 861.
"Snowdrift." (For a Substitute for Butter.) The Southern Cotton Oil Co. No. 2,888; Nov. 21; Gaz. vol. 172; p. 821.
"So Easy to Use." (For Starch.) H. J. Mailloux. No. 2,762; May 23; Gaz. vol. 166; p. 984.
"Soothingsalve." (For Ointment.) J. Castle. No. 2,875; Oct. 31; Gaz. vol. 171; p. 1256.
"Spic and Span." (For Polish for Brass, Nickel, and Copper.) The Atkins Co. No. 2,880; Nov. 7; Gaz. vol. 172; p. 258.
"St. Elmo." (For Billiard-Tables.) The Brunswick-Balke-Collender Co. No. 2,735; Apr. 18; Gaz. vol. 165; p. 728.
"Steero." (For Bouillon Cubes.) American Kitchen Products Company. Nos. 2,715–22; Mar. 28; Gaz. vol. 164; p. 973.
"Steero." (For Bouillon Cubes.) American Kitchen Products Company. No. 2,726; Apr. 11; Gaz. vol. 165; p. 472.
"Steero." (For Bouillon Cubes.) American Kitchen Products Company. No. 2,739; May 2; Gaz. vol. 166; p. 249.
"Sugar Plums." (For Confectionery.) D. J. O'Brien Co. No. 2,903; Nov. 28; Gaz. vol. 172; p. 1087.
"Sylvan Toilet Talcum (Borated) Powder Is Antiseptic, Absorbent and Delightfully Refreshing." (For Sylvan Toilet Talcum (Borated) Powder.) American Lithographic Company. No. 2,741; May 2; Gaz. vol. 166; p. 249.
"The Adamant Suit." (For Boy's Clothing.) S. Rosenthal & Bros. No. 2,912; Dec. 12; Gaz. vol. 173; p. 582.
"The Bour Twins." (For Coffee and Tea.) Bour Company. No. 2,874; Oct. 31; Gaz. vol. 171; p. 1256.
"The Boy Artist." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,914; Dec. 19; Gaz. vol. 173; p. 861.
"The Capitol Coat." (For Men's Wearing-Apparel.) E. Olson. No. 2,814; Aug. 8; Gaz. vol. 169; p. 448.
"The Dainty Dame Shoe." (For Boots and Shoes.) The R & G Shoe Company. No. 2,920; Dec. 19; Gaz. vol. 173; p. 861.
"The Doctor." (For Dog Remedies.) Dr. A. C. Daniels. No. 2,879; Nov. 7; Gaz. vol. 172; p. 258.
"The Factory Behind The Trunk." (For Trunks.) Headley & Farmer Co. No. 2,713; Mar. 21; Gaz. vol. 164; p. 738.
"The Food To Tie To." (For Prepared Cereal Foods.) Kellogg Toasted Corn Flake Co. No. 2,877; Nov. 7; Gaz. vol. 172; p. 258.
"The Lily Of The Valley." (For Cork-Tip Cigarettes.) The American Tobacco Co. No. 2,858; Oct. 17; Gaz. vol. 171; p. 742.
"The Little One." (For Rompers and Play-Suits.) Wise Brothers. No. 2,743; May 2; Gaz. vol. 166; p. 249.
"The Only Cereal Food Made in Biscuit Form." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,744; May 9; Gaz. vol. 166; p. 510.
"The Panama an Arrow Shirt." (For Arrow Shirts.) Cluett, Peabody & Company. No. 2,883; Nov. 7; Gaz. vol. 172; p. 258.
"The Pansy." (For Cork-Tip Cigarettes.) The American Tobacco Co. No. 2,859; Oct. 17; Gaz. vol. 171; p. 742.
"The Puzzle Wood Display Outfit, No. 10." (For Wooden Forms for Displaying Goods in Store-Windows.) Artistoria Novelty Co. No. 2,679; Jan. 3; Gaz. vol. 162; p. 267.
"The Safe-Cabinet." (For Safe-Cabinets.) The Safe-Cabinet Company. No. 2,737; Apr. 25; Gaz. vol. 165; p. 970.
"The Safe Cabinet." (For Office Equipments.) The Safe-Cabinet Co. No. 2,857; Oct. 10; Gaz. vol. 171; p. 480.
"The Sanitary Milk Co. Canton, Ohio. Ice Cream." (For Ice-Cream.) The Sanitary Milk Company. No. 2,887; Nov. 21; Gaz. vol. 172; p. 821.
"The Standard Body-Builder." (For Scott's Emulsion.) Scott & Bowne. No. 2,706; Mar. 7; Gaz. vol. 164; p. 248.
"The 'Star Brand' Girl." (For Shoes.) Roberts, Johnson & Rand Shoe Company. No. 2,832; Sept. 5; Gaz. vol. 170; p. 242.
"The Tulip." (For Cork-Tip Cigarettes.) The American Tobacco Co. No. 2,860; Oct. 17; Gaz. vol. 171; p. 742.
"The Universal Safety Razor." (For Universal Safety-Razors.) Landers, Frary & Clark. No. 2,691; Feb. 7; Gaz. vol. 163; p. 229.
"The Victor Victrola." (For Talking-Machines.) The Rudolph Wurlitzer Co. No. 2,825; Aug. 29; Gaz. vol. 169; p. 1183.
"The Woman of the Hour." (For Boots and Shoes.) Allen-Foster-Willett Co. No. 2,905; Dec. 12; Gaz. vol. 173; p. 582.
"This Refined Sanative Soap." (For Soap.) The Morgan Drug Co. No. 2,894; Nov. 21; Gaz. vol. 172; p. 821.
"Thomas Technical Service." (For Automobiles.) J. L. Sugden. No. 2,840; Sept. 12; Gaz. vol. 170; p. 480.
"Time for Shredded Wheat and Strawberries." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,761; May 23; Gaz. vol. 166; p. 984.
"Time to Re-tire." (For Tires.) The Fisk Rubber Company. No. 2,856; Oct. 10; Gaz. vol. 171; p. 480.
"To Be Rid Of Blackheads." (For Soap.) The Morgan Drug Co. No. 2,893; Nov. 21; Gaz. vol. 172; p. 821.
"Trade Follows the Flag." (For Pumps.) Rumsey & Co. No. 2,899; Nov. 21; Gaz. vol. 172; p. 821.
"Turkish Bath Scene." (For Men's Knitted Underwear.) Roxford Knitting Company. No. 2,771; May 23; Gaz. vol. 166; p. 984.
"United Fruit Co. Bananas From Fruit Dispatch Co. Importers and Distributors." (For Bananas.) United Fruit Company. No. 2,740; May 2; Gaz. vol. 166; p. 249.
"United Fruit Company Bananas." (For Bananas.) United Fruit Company. No. 2,753; May 23; Gaz. vol. 166; p. 984.

Alphabetical list of prints—Continued.

"Use Magic Yeast For Making Root Beer For Making Bread." (For Yeast.) Northwestern Yeast Co. No. 2,787; June 27; Gaz. vol. 167; p. 980.
"Victors." (For Tobacco.) The Gray Lithographic Co. No. 2,805; Aug. 8; Gaz. vol. 169; p. 448.
"Violet." (For Cork-Tip Cigarettes.) American Tobacco Company. No. 2,871; Oct. 31; Gaz. vol. 171; p. 1256.
"Vivil Candy Tablets." (For Vivil Candy Tablets.) The Darby Candy Company. No. 2,799; July 18; Gaz. vol. 168; p. 786.
"Watch our Smoke." (For Cigars.) Luckett, Luchs & Lipscomb. No. 2,845; Oct. 3; Gaz. vol. 171; p. 212.
"What Makes the Ripple of Dimples Around the World." (For Scott's Emulsion.) Scott & Bowne. No. 2,848; Oct. 3; Gaz. vol. 171; p. 212.
"When the Cook Leaves." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,756; May 23; Gaz. vol. 166; p. 984.
"When You Eat Strawberries." (For Shredded-Wheat Biscuit.) The Shredded Wheat Company. No. 2,745; May 9; Gaz. vol. 166; p. 510.
"Which Will You Take?" (For Johann Hoff's Malt Extract.) The Metropolitan Printing Company. No. 2,790; July 4; Gaz. vol. 168; p. 247.
"Why, Cream of Wheat, of Course!" (For Wheat Breakfast Food.) Cream of Wheat Co. No. 2,772; May 30; Gaz. vol. 166; p. 1280.
"Why Make Smoke?" (For a Direct-Gas Furnace Smoke-Prevention Appliance.) J. R. Wilmot. No. 2,748; May 9; Gaz. vol. 166; p. 510.
"Why Not Remove Those 'Pimples.'" (For Ointment.) The Morgan Drug Co. No. 2,892; Nov. 21; Gaz. vol. 172; p. 821.
"Wolfe's Schnapps." (For Schnapps.) The Udolpho Wolfe Co. No. 2,828; Sept. 5; Gaz. vol. 170; p. 242.
"Yard Wide Wonder Silk." (For Silk.) Burton Bros. & Co. No. 2,852; Oct. 3; Gaz. vol. 171; p. 212.
"Yeast Foam." (For Yeast.) Northwestern Yeast Co. No. 2,801; July 18; Gaz. vol. 168; p. 786.
"Yeast Powder." (For Yeast-Powders.) Rumford Chemical Works. No. 2,911; Dec. 12; Gaz. vol. 173; p. 582.

DISCLAIMERS.

Bed, Sofa-. J. B. Strand, J. H. Haugen, W. Coesfeld, and G. Fischrupp. No. 887,982; date of patent May 19, 1908; disclaimer filed Apr. 7, 1911; Gaz. vol. 165; p. 479.
Cans, Means for removing superfluous solder from sheet-metal. O. S. Fellows. No. 595,705; date of patent Dec. 21, 1897; disclaimer filed June 12, 1911; Gaz. vol. 167; p. 767.
Cashier, Mechanical. E. S. Church. No. 985,145; date of patent Feb. 28, 1911; disclaimer filed Sept. 11, 1911; Gaz. vol. 170; p. 487.
Glandular extractive compound. J. Takamine. No. 753,177; date of patent Feb. 23, 1904; disclaimer filed July 18, 1911; Gaz. vol. 168; p. 793.
Lamp, Electric glow-. H. Remané, E. Hurwitz, and E. Gottschalk. No. 919,381; date of patent Apr. 27, 1909; disclaimer filed Apr. 19, 1911; Gaz. vol. 165; p. 735.
Panel-board, Electrical. H. Krantz. No. 705,850; date of patent July 29, 1902; disclaimer filed Nov. 9, 1911; Gaz. vol. 172; p. 265.
Photographic shutter. A. Wollensak. No. 679,134; date of patent July 23, 1901; disclaimer filed Nov. 22, 1911; Gaz. vol. 173; p. 289.
Spinning, doubling, and twisting machine. S. Z. de Ferranti. No. 970,617; date of patent Sept. 20, 1910; disclaimer filed Apr. 21, 1911; Gaz. vol. 166; p. 1.

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